U. S. DEPARTMENT OF AGRICULTURE.

WEATHER BUREAU.

QC
983
.U49
1895-1896
c.2

REPORT

OF THE

CHIEF OF THE WEATHER BUREAU.

LIBRARY
N.O.A.A.
U.S. Dept. of Commerce

1895-96.

LIBRARY
FEB 26 1953
WEATHER BUREAU

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1896.

16489

National Oceanic and Atmospheric Administration

Climate Database Modernization Program

ERRATA NOTICE

One or more conditions of the original document may affect the quality of the image, such as:

Discolored pages
Faded or light ink
Binding intrudes into the text

This document has been imaged through the NOAA Climate Database Modernization Program. To view the original document, please contact the NOAA Central Library in Silver Spring, MD at (301) 713-2607 x124 or www.reference@nodc.noaa.gov.

LASON
Imaging Subcontractor
12200 Kiln Court
Beltsville, MD 20704-1387
March 28, 2002

AN ACT providing for the public printing and binding and the distribution of public documents.

SEC. 73. Extra copies of documents and reports shall be printed promptly when the same shall be ready for publication, and shall be bound in paper or cloth as directed by the Joint Committee on Printing, and shall be of the number following in addition to the usual number:

* * * * * * *

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 AGRICULTURE, WEATHER BUREAU,
Washington, D. C., September 15, 1896.

SIR: I have the honor to submit a report of the operations of the Weather Bureau during the year ended June 30, 1896.

The following topics are briefly treated in the first part of the report, viz: (1) New work undertaken with a view of improving the Weather Bureau service; (2) special improvements made during the year; (3) the preparation and distribution of forecasts and warnings.

The second part of the report consists of the usual meteorological tables for the calendar year 1895.

Very respectfully,

WILLIS L. MOORE,
Chief of Bureau.

Hon. J. STERLING MORTON,
Secretary of Agriculture.

Blank page retained for pagination

ILLUSTRATIONS.

CHARTS.

		Page.
Chart I.	Tornadoes of 1889	xxvi
II.	Tornadoes of 1890	xxvii
III.	Tornadoes of 1891	xxix
IV.	Tornadoes of 1892	xxx
V.	Tornadoes of 1893	xxxii
VI.	Tornadoes of 1894	xxxv
VII.	Tornadoes of 1895	xxxviii
VIII.	Tornadoes of 1896	xxxix

PLATES.

Plate I.	Passage of a Pacific low across the Rocky Mountains	225
II.	The development of a low area on the southern Rocky Mountain slope	227
III.	Conditions during the passage of a cold wave to the central valleys and Gulf of Mexico	229
IV.	The plateau high area	232

FIGURES.

Figure 1.	Diagram showing mean diurnal curves of pressure and temperature	220
2.	Diagram showing mean annual curves	221
3.	Diagram showing mean curves during passage of Pacific low	226
4.	Diagram showing mean curves during development of low on southern slope	228
5.	Diagram showing mean curves during advance of cold wave	230

Blank page retained for pagination

CONTENTS.

	Page.
NEW WORK	ix
Aerial investigations	ix
Magnetism and meteorology	x
International cloud observations	x
Stability of climate	xii
Humidity observations and the spinning of cotton	xii
Discussion of observations at Pikes Peak and Colorado Springs	xii
Tornadoes	xiii
INSPECTIONS	xiv
SPECIAL IMPROVEMENTS	xiv
Station weather maps	xv
Revision of forms	xv
Sensible temperatures	xv
MONTHLY WEATHER REVIEW	xv
CLIMATE AND HEALTH	xv
FORECASTS AND WARNINGS	xvi
Cold wave and frost warnings	xvii
Severe local storms and tornadoes	xvii
Marine storm warnings	xvii
Wind signal display stations	xviii
Tropical hurricane reporting stations	xviii
River forecasts and flood warnings	xviii
Distribution of forecasts and warnings	xix
CLIMATE AND CROP SERVICE	xix
Climate and crop bulletins	xx
Cotton, sugar, and rice service	xx
Corn and wheat service	xxi
SNOW AND ICE CHARTS	xxi
ECONOMICAL EXPENDITURES	xxi
HOW THE WEATHER BUREAU DISSEMINATES FORECASTS AND WARNINGS. By E. B. Calvert, private secretary to the Chief of Bureau	xxii
TORNADOES 1889–1896. By A. J. Henry, chief of Division of Records and Meteorological Data	xxiii
Explanation of the lists and charts	xxv
PART I	1
List of observing stations	3
Table 1.—Latitude, longitude, elevation, etc., of Weather Bureau stations	3
Table 2.—Changes in Weather Bureau stations during 1895	6
Description of instruments	8
Instrumental corrections, etc	10
PART II.—Hourly averages of atmospheric pressure, temperature, and wind from the records of automatic instruments at 28 stations	11
Explanation of the tables	12
Average pressure, in inches and thousandths, for each hour of seventy-fifth meridian time	14
Average temperature (degrees Fahrenheit) for each hour of seventy-fifth meridian time	30
Wind—velocity and frequency	46
PART III.—Monthly and annual meteorological summaries for 146 Weather Bureau stations	61
Explanation of the tables	62
Annual meteorological summary for the year ending December 31, 1895	73
PART IV.—Monthly and annual mean temperature and annual extremes of temperature, together with the dates of first and last killing frost	139
PART V.—Monthly and annual precipitation, all stations	175

Page.
PART VI.—Miscellaneous meteorological tables and reports 213
Discussion of hourly observations at Pikes Peak and Colorado Springs:
Normal diurnal fluctuations 215
Approximate normal data 216
Normal annual variations 220
Abnormal disturbances—
Pacific lows 223
Southern Slope lows 226
Highs attended by cold waves 228
Persistent highs of the plateau region 231
Snowfall, 1895–96 233
Sunshine 235
Severe local storms, 1895:
Table I.—Violent storms, 1890–1895 245
Table II.—Deaths by violent storms, 1890–1895 245
Table III.—Deaths by lightning, 1890–1895 245
Description of all violent storms of scale 2 — and above during 1895 246
Tables of excessive precipitation 246
Maximum amounts of excessive precipitation for periods of 5 and 10 minutes, 1 hour, and 24 hours or more. 247
Supplemental table showing the accumulated amounts of excessive precipitations for each 5 minutes during some of the heaviest rainfalls at each station furnished with self-registering gauges 265

REPORT OF THE CHIEF OF THE WEATHER BUREAU, 1895–96.

NEW WORK.

AERIAL INVESTIGATIONS.

Prof. Charles F. Marvin, in charge of the Instrument Division, was directed by the Chief of Bureau in November, 1895, to take up, in addition to his other duties, the study and development of means and appliances for sustaining automatic meteorological instruments at high elevations in the upper free air. As a mechanical engineer and meteorologist he brought to this difficult problem ability of a high order, and the results attained have fully justified his assignment to this work. The work during the past seven months was confined principally to experiments with kites, a detailed report of which was published in the Monthly Weather Review for November, 1895, and April, 1896. On one occasion an altitude of 7,000 feet was attained by kites flown by Professor Marvin, and but 9,000 feet of wire was paid out from the reel. This is believed to be the greatest height attained by any experimenter with kites.

Much time was consumed in devising, constructing, and perfecting various accessories and appliances required in the management of the kites, and in testing the materials used in conducting the investigations. It was found that both the form of the body of the kite and the action of the forces that affect it demanded a much fuller analytical consideration than they had hitherto received. The work, therefore, consisted in developing and perfecting the kites so as to secure the highest attainable efficiency, viz, the ability to lift and maintain a considerable weight.

The results of the work thus far have demonstrated that for readily attaining elevations exceeding, say, 1,000 feet, wind velocities exceeding 10 to 15 miles per hour must prevail. With kites of light construction good results may be obtained in lighter winds, yet gusts of strong winds are extremely liable to be interspersed with light winds, and unless the kites have a considerable margin of strength damage to the kites and failure of experiments are almost certain to result. When favorable winds prevail, it has been shown that one or two kites of the improved forms, produced as a result of Weather Bureau investigations, suffice for reaching elevations of from 3,000 to 7,000 feet, depending somewhat, of course, upon the load carried. While such results are attainable when favorable winds prevail, the use of kites is always limited by the condition of the wind. Experience has shown that at many of our stations it would often be necessary to wait several days for a single occasion of favorable winds.

The frequency with which kites may be successfully employed for reaching very high elevations will no doubt be greatly increased as the kite is brought to a more perfect state and the art of its management more completely developed. There must always be, however, times when upper air observations can not be obtained by such means. However good kites may be, there is yet needed for obtaining observations in the free air something that may be used on each and every occasion and in any locality. Captive balloons, which have been repeatedly tried for military purposes, prove to be of little value for reaching lofty elevations. As a result of the great amount of surface which must necessarily be exposed, the balloon is blown far away from the zenith point over its anchorage by even moderately strong winds. Combinations of the kite and balloon have also been tried. These, in turn, possess but little advantage over the balloon alone, and in many respects are inferior to the kite. Free balloons may reach great elevations, but they drift with the currents of the air and their return is uncertain.

There appears to remain but one other means of exposing meteorological instruments at approximately fixed points in the free air, namely, by use of devices sustained by the action of propellers, which either lift the apparatus directly or give to it a spirally ascending or descending

motion; or by exerting pressure in a horizontal direction so as to force a kite or aeroplane up against the wind, and thus gain a more nearly vertical ascension of the kite than otherwise is possible. Many devices of this character have been proposed by ingenious inventors, and several models of small size have proved that the desired effects on a large scale are within the range of possibilities.

Perfected appliances of this character will prove of such great value to meteorology that their development requires a share of the attention to be given to the greater problem of securing meteorological observations in the free air. Such observations are now generally conceded by meteorologists to be the means by which further and more complete knowledge is to be gained of the mechanism of storms and the sequence of atmospheric phenomena. The idea may seem visionary now, perhaps, but it is a possibility that important meteorological stations of the future will be dual in character. One portion will remain, as at present, at the surface of the earth; the other portion will be poised at a great height in the air, riding at anchor to the base station, as it were, much in the same fashion that light-ships now ride at anchor at sea, sustained, however, by the operation of other forces than the buoyant action of the air. Simultaneous observations from a system of widely distributed stations of this character would enable the future forecast official to map the atmospheric conditions, both horizontally and vertically, and arrive at a more exact knowledge of the gradients of air temperature, pressure, moisture, etc., than is possible at present, with a limited knowledge of surface conditions only.

The complete solution of so great a problem will doubtless be attained gradually and by steps. It is hoped that the beginning here outlined will result in inestimable benefits to commerce and agriculture in the future.

MAGNETISM AND METEOROLOGY.

Studies into the relations between solar magnetism and meteorological phenomena have been carried on by Prof. Frank H. Bigelow, as the other duties assigned to him have left time for this work. He is of the opinion that the atmospheric conditions which culminate in the storms traversing the United States are dependent in part upon the solar energy that reaches the earth in the form of magnetic influence; that there are synchronous fluctuations in the pressures and temperatures of the northwestern regions of the American continent, in the neighborhood of the magnetic pole and the auroral belt; that a train of storms (highs and lows) advance from that quarter eastward in well-defined tracks; that the position of the tracks and the intensity of the storms change along with the strength of the solar magnetic field; that there are many other forces at work to produce storms, such as the general circulation of the atmosphere and the local convection of heat and aqueous vapor, but that the magnetic forces must be included with the others in order to obtain a correct understanding of the mechanism of cyclones and anticyclones.

Unfortunately, magnetic force is not so easy to analyze as gravitation, on account of its dual nature, the so-called positive and negative action, according to the properties of the material upon which it acts. Inversion of force is the characteristic of this agent, and it will be of great importance to the science of meteorology if Professor Bigelow is able fully to demonstrate that in the pressures and temperatures of storms there is such an inversion. Professor Bigelow believes that the law is semiannually periodic, and not fortuitous, and is so conformed to the position of the earth in its orbit as to bear definite relations to the axes of the sun and the earth, regarded as great magnets. These subtle and delicate signs of the operation of the magnetic forces require much caution and deliberation in prosecuting the researches, in order not to arrive at unsound conclusions.

The sequence of cause and effect is rather loosely shown, and the existence of such fundamental laws as will enable the practical meteorologist to improve on the old methods of forecasting has not yet been demonstrated. However, the problem is one worthy of the fullest investigation.

INTERNATIONAL CLOUD OBSERVATIONS.

The progress of practical meteorology, especially forecasting, has been greatly impeded by the lack of information regarding the general circulation of the atmosphere in the upper strata and throughout the cyclones and anticyclones, of which the current observations give data on the ground only. In order to overcome this defect and to reach conclusions as to the merits of the two great rival theories of the formation of storms, namely, the convectional and the general circula-

tion, meteorologists have declared in favor of concerted work upon the movements of the upper strata, as given by the drift of the clouds contained in them. At the International Conference, Munich, 1891, a committee was appointed to consider the question of concerted observations of the direction of motion and the height of clouds. At a meeting of the International Meteorological Committee, held at Upsala, August, 1894, it was agreed that these observations should commence May 1, 1896, and continue for a year. In the early part of 1896 it was found that the installation of instruments at some stations could not be completed by May 1, and the cloud year was therefore extended to August 1, 1897.

In order that the United States may bear its share in this important international meteorological work, a board of cloud work was appointed, consisting of Prof. Frank H. Bigelow and Mr. A. J. Henry, Chief of the Division of Records and Meteorological Data, to establish the stations and conduct the operations and computations. The observing stations have been selected as far as possible from those most favorably located in reference to the principal storm tracks. The final list is as follows: Primary station, Washington, D. C.; other independent primary stations were established at the Blue Hill Observatory, Readville, Mass., by Mr. A. L. Rotch, Director, and at Toronto, Canada, by Prof. R. F. Stupart, Director Meteorological Service, Dominion of Canada. Secondary stations, Washington, D. C., Buffalo, Detroit, Louisville, St. Paul, Kansas City, Abilene, Vicksburg, Key West, and Baker City. Secondary stations are also maintained at the Blue Hill and Toronto observatories, at Cleveland, Ohio, by Rev. F. L. Odenbach, S. J., St. Ignatius College, and at Waynesboro, N. C., by Mr. Frank W. Proctor, making a total of two primary and thirteen secondary stations in the United States. It should be noted that many of the Weather Bureau observers, appreciating the importance of such studies, volunteered their labor, and are making the observations in addition to their regular station duties, thus showing a commendable zeal in the interests of meteorology. The voluntary observers at Blue Hill, Waynesboro, and Cleveland deserve the thanks of the Weather Bureau.

The instrumental outfit at the primary stations consists of two small altitude and azimuth instruments (an ordinary surveyor's theodolite fitted with a finder adapted to clouds) placed at the extremities of a measured base line. By sighting at the same instant of time on a given cloud point its height can be computed; by repeating this operation after a lapse of time the velocity and direction of the cloud motion can be found. One of the theodolites is placed on the roof of the Weather Bureau building, and the other on the western tower of the State, War, and Navy building by the courtesy and cooperation of Chief Engineer George W. Baird, U. S. Navy, superintendent. The base line is 1,360.5 meters long, the eastern end being elevated 17.5 meters, and it makes an angle S. 56° E. with the meridian. A complete survey of the base line was executed for the Weather Bureau by the engineer office of the District of Columbia, and the value of this assistance was greatly appreciated.

The instruments used in the cloud work were all prepared under the direction of Prof. C. F Marvin, of the Instrument Division, who also devised an improved nephoscope for the secondary stations which gives very satisfactory results. This nephoscope is employed to give the direction and relative velocity of the cloud motions, which can also be converted into actual motions and heights when the name assigned to the cloud and the heights found at the primary stations are employed.

To facilitate naming the clouds, a sheet entitled "Description of cloud forms," containing the international definitions and some typical forms, was issued by the Weather Bureau. The International Committee have also since then published a "Cloud Atlas," which will be accepted as giving standard cloud forms. These definitions and types have been incorporated into the daily telegraphic code, and the reports from all observers are now based upon the international system, the change having gone into effect on July 1, 1896.

The director of the Blue Hill Observatory, having had several years' experience in cloud observations, placed his information freely at the disposal of the Weather Bureau, and thus much facilitated setting the work in order. Observations began on May 6, 1896, and have been going on regularly, as the weather permitted. The discussion of the facts obtained by this extensive survey of the movements of the upper currents, can hardly fail to add new knowledge to this department of meteorology.

STABILITY OF CLIMATE.

The extraordinary period of drought which reached its culmination in the autumn of 1895 created a feeling of apprehension in many localities in regard to the stability of climatic conditions over a large extent of territory. A feeling of unrest was also created by the attempt to show that the changed conditions were a result of man's agency in the breaking up and cultivation of the soil. In order to meet the demands for information on the subject, a brief study of the rainfall records collected and preserved in the files of the Bureau was made. It was clearly shown that periods of alternating wet and dry weather were characteristics of the seasons forty and fifty years ago, and that there was no general law governing the recurrence of years of drought or abundant rainfall. Increased interest has been manifested in the Weather Bureau records of rainfall, but whether or not as a direct result of the discussion is not known.

HUMIDITY OBSERVATIONS AND THE SPINNING OF COTTON.

A report upon the relative humidity of southern New England and other localities, published as Weather Bureau Bulletin No. XIX, by Alfred J. Henry, Chief of Division, was prepared during the year. The report describes the conditions of atmospheric humidity in localities where the spinning and weaving of cotton is carried on, the special object of the paper being to compare the conditions where successful spinning is carried on with those in localities where it is proposed to establish and develop the industry.

One of the conditions essential to the greatest degree of success in the spinning and weaving of cotton fabrics is a humid state of the atmosphere, and the more constant the degree of humidity the greater is the measure of profitable spinning, especially as regards the finer numbers. The average spinning of England is finer than that of the United States, and the average of the latter varies greatly with geographic location, the finer spinning being done almost wholly in New England.

The attention of the Weather Bureau having been called to the importance of the subject and to the probable extension of the manufacture of cotton over a much wider area than it has yet occupied, a comparison was made with a view of ascertaining how the natural humidity of certain portions of the United States, particularly the South, where the extension of the art is most pronounced, compares with that of the southern shore of New England.

It was developed during the investigation that until a comparatively recent time ago but little account had been taken of climatic conditions as affecting the quantity or quality of the output. The relative humidity of the atmosphere depends not only on the quantity of vapor present in the air, but also on the temperature which determines the point of saturation, and these elements vary, both as regards time and geographic situation. It is believed that the place where the spinning of the finer grades of yarn can be done with greatest profit is where the relative humidity of the atmosphere undergoes the least change during the working hours of the day. The control of both temperature and humidity by artificial means, however, seems to be the final solution of the problem in all cases where the establishment of mills in a relatively dry climate is contemplated.

DISCUSSION OF OBSERVATIONS AT PIKES PEAK AND COLORADO SPRINGS.

We are indebted to mountain observatories for much definite information concerning the movement and other physical characteristics of the upper strata of the atmosphere. The Signal Service established and maintained for a number of years, at great expense, observing stations on the summits of Mount Washington and Pikes Peak, and the attempt was made to utilize observations at these elevated points in daily weather predictions. The observations were found to be of comparatively little value for forecast purposes, and although the stations were continued for sometime afterwards, they were finally abandoned in the fall of 1888. The station at Pikes Peak, however, was reestablished by the Weather Bureau in September, 1892, with a much more elaborate equipment than it had under the Signal Service, some of the instruments being devised especially to meet the exigencies of service on a high mountain peak.

A base station at Colorado Springs, 12 miles distant and 8,036 feet below the peak, was also fully equipped with self-recording instruments of approved pattern, and observations were begun

in November of the same year. These stations were maintained until September 30, 1894, at a cost to the Government of not less than $7,000. The observations of pressure, temperature, and wind were published in extenso in the reports of the Chief of the Weather Bureau for 1893 and 1894, respectively, but no effort appears to have been made to draw therefrom conclusions that might be of possible benefit to the Weather Bureau. Although the location selected was not in the immediate track of the great storms that traverse our northern borders, or even in close proximity thereto, yet it was believed that some useful information could be had from the mass of data collected during the two years' occupancy of the Peak and base stations. Mr. Park Morrill, forecast official, was instructed to make a study of the observations with special reference to the conditions which prevail on the Peak during the passage of atmospheric disturbances. His report, which will be found in Part VI of this volume, is commended to the careful study of those who forecast weather changes in the Rocky Mountain region. Mr. Morrill shows, among other interesting facts, that the notable rise of pressure at these elevated stations in summer is an effect of the expansion of the air upward from the increased heat. It is also shown that the law of decrease of temperature with altitude is not linear; that there is a considerable layer at the lower limit of the atmosphere, possibly extending to a height of 4,000 feet, which is somewhat uniformly heated, but that above this warm lower layer a more rapid and steady decrease of temperature occurs. This conclusion has an important bearing upon the determination of elevations by the usual hypsometric methods.

Particular attention is invited to that portion of Mr. Morrill's report which deals with the pressure distribution at an altitude of 5,000 feet above sea level. Since the general level of the Rocky Mountain and plateau regions is not far from that elevation, the pressures reduced thereto are free, in a great measure, from the errors commonly introduced in reductions to sea level. The upper isobars, as will be seen by an examination of the charts reproduced in Mr. Morrill's report, differ very considerably at times from sea-level isobars. The former conform more closely to the surface winds, both as to direction and velocity. Some meteorologists assume that the location and movement of barometric areas in this elevated region can best be studied by reduction to a surface 5,000 feet above sea level. However true this may be, the method fails of application to the practical work of the Bureau, since the reduction of the pressures at low-level stations to an altitude of 5,000 feet above sea level involves the same difficulties that beset the present reduction of pressures at elevated stations to sea level. As the majority of stations are under 1,000 feet in altitude, it seemed wise to attempt to find a method of reduction for elevated stations that shall be superior to the present method rather than to seek a reduction to a 5,000-foot level. Accordingly a board consisting of Profs. C. Abbe, H. A. Hazen, C. F. Marvin, Mr. Park Morrill, Forecast Official, and Mr. A. J. Henry, Chief of Division, was appointed to consider the question in all its details. The board has submitted a report which will serve as a basis for further investigation and study.

TORNADOES.

On the night of May 27, 1896, the country was startled by a report that St. Louis, Mo., had been partly destroyed by a tornado. To those familiar with the havoc caused by these destructive storms the message caused the greatest concern and additional details were anxiously sought. The full story of the storm was told in subsequent press dispatches, and although later developments showed that it had not been as severe as first reported, the loss of life and destruction of property were unprecedented. So great a disaster, coming so quickly after the occurrence of destructive storms in Iowa, Kansas, Illinois, and Michigan, tended to create a feeling that the severity and frequency of these violent disturbances were increasing. It is not believed that there has been an increase either in the frequency or severity of tornadoes. Unfortunately, those of the present year have swept through populous sections of the country, occasionally through the midst of small villages and towns, and once through the heart of one of our great cities. Three hundred and six persons lost their lives in the storm of May 27, 1896—more than the aggregate loss by violent winds during the two years 1891 and 1895, and more than during any single year of which we have authentic records except 1893.

If we exclude the storm of May 27 the loss of life thus far during 1896 is above the average of previous years, but not so great as in 1892 or 1893.

In almost all cases of great disaster there is a pronounced tendency to exaggerate the actual facts, and thus it happens that press accounts of tornadoes, especially those first sent out, are generally misleading. In consequence, the general conception of the frequency and severity of these unwelcome storms is more or less erroneous. According to a statement recently compiled and published in a reliable newspaper, 676 persons lost their lives by tornadoes during April and May, 1896. An investigation of the cases cited in the published list shows that 515 persons were actually killed by severe thunderstorms and tornadoes during the months named. Of the remaining deaths accredited to tornadoes 21 were due to drowning in the flood waters of small streams; 11 were drowned at Cairo, Ill., by the capsizing of a ferryboat in a wind squall; 2 were killed by lightning, and 127 reported deaths were fictitious.

The unusual destruction of life and property has doubtless been the means of awaking general interest in tornadic phenomena, and also of stimulating the business of tornado insurance throughout the great interior valleys. Direct application has been made by several companies now writing tornado insurance for statistics of the loss of life and property occasioned by tornadoes. Since the compilation of such statistics is a matter involving considerable labor, and since it would appear that the purchasers of tornado insurance should also be supplied with whatever information might be furnished to the companies, it was decided to review the tornado records of the last eight years, with a view of determining the frequency and the destruction caused by these storms, so far as past records throw light upon the subject. The revised list will be found on pages xxvi–xl of this report. It contains a statement of what is known concerning the loss of life and property, the length and breadth of great destruction, and the direction in which the tornado moved. The location of each storm is also shown by appropriate charts. These data should serve a useful purpose in connection with the fixing of rates for tornado risks.

INSPECTIONS.

The Chief of Bureau has made three tours of inspection, visiting in all about thirty stations of the service. He was especially struck with the lack of uniformity in the equipment of the Government meteorological offices. Recent instructions have been issued to the Supplies, Instrument, and Accounts Divisions which will insure the early adoption of many standard appliances.

The diversified interests that can make use of continuous automatic records of wind, temperature, pressure, sunshine, and rainfall are too numerous to be mentioned here. Of thirty stations inspected few possessed instrumental equipments commensurate with their needs. With an economical disbursement of the funds allotted to this purpose much can be done during the coming year to remedy these defects.

The stations of the Bureau are visited by citizens in general, and especially by teachers (often with classes), in search of special and technical meteorological information purely for educational purposes. In this connection the station equipment of instruments may be made a most important and valuable lesson. Two years ago the Chicago station was completely equipped, and the result has fully justified the small expenditure necessary.

Formerly four inspectors were employed in the Bureau. It is now thought that with an occasional inspection by the Chief, for the purpose of keeping informed as to the details of the work throughout the country, one inspector will be sufficient for the needs of the Bureau. It is hoped that during the coming year the Chief of Bureau may be able to personally visit nearly all of the remaining stations. In performing his executive functions he finds that a thorough knowledge of the local offices and of the officials on duty at each is almost indispensable to an intelligent and efficient administration of the weather service.

SPECIAL IMPROVEMENTS.

During the year that ended June 30, 1896, the distribution of weather forecasts was greater than in any previous year. The forecasts were sent daily to all places that formerly received them only when exceptional conditions were forecast. There has been an increase in the number of towns, hamlets, and farming settlements receiving forecasts of about 12,000.

Important printing devices have been introduced at nine of the principal stations of the service for the purpose of issuing daily weather maps, weekly crop bulletins, and monthly meteoro-

logical reports in a more legible manner than heretofore. These improvements made possible the compilation and publication of uniform climatic data of the various States where the improvements were introduced. Ten more offices will be equipped during the next three months, and it is intended to extend these improvements until all important stations have been equipped.

STATION WEATHER MAPS.

A total of 3,512,597 weather maps were issued at 75 stations during the year, an increase of 363,702 maps over and above the preceding year. The increase in the number of maps issued has been made possible largely by the perfection and adoption of the chalk-plate process at nine of the largest stations.

REVISION OF FORMS.

A thorough revision of all forms, with a view of simplifying and reducing the work of the observing force, was made during the year. Much good has already resulted from the reforms instituted in this respect. A much-needed revision was also made of the book of "Instructions for Weather Bureau Observers."

SENSIBLE TEMPERATURES.

The telegraphing of the readings of the wet-bulb thermometer, popularly known as the "sensible temperature," was begun on September 20, 1895. This is approximately the temperature felt by animal life, and may be many degrees below the air temperature, the difference between the two temperatures depending upon the relative humidity of the air, the drier the atmosphere the lower the sensible temperature when compared with the air temperature; the damper the air the higher the sensible temperature. This will be better understood when it is stated that in case the air be saturated the readings of the dry and wet bulb thermometers will be the same, and the sensible and air temperatures equal. In the arid regions of the West cases can be cited where the sensible temperature was 38° less than the air temperature, due to the extreme dryness of the atmosphere. In the more humid regions of the eastern part of the country such extreme differences do not occur. Both the air temperatures and sensible temperatures are now published on all charts issued by the Weather Bureau.

MONTHLY WEATHER REVIEW.

The Monthly Weather Review has become the principal medium of communication between meteorologists and observers of this country, and by reason of its large circulation it is also recognized as a desirable journal for the publication of everything bearing upon meteorology and its applications. That section of the text entitled "Special contributions" has increased in extent and interest. It is of course open to receive communications from all observers and colaborers. In general, the Review fills an important place as a means of popular education. The climatological tables have received wide recognition as one of the most valuable publications of current data. It compares well with those published by other governments, including that of the Government of India, whose meteorological office has devoted much attention to the practical work of long-range seasonal forecasts. This latter subject also has received special attention from time to time, in hopes that seasonal forecasts will eventually become practicable for the United States, notwithstanding the great vicissitudes of our climate. The erroneous popular idea that these irregularities constitute permanent changes in local climates, due to such local matters as the clearing of forests, the cultivation and drainage of the ground, the planting of trees, and other marks of the progress of civilization, has been combated on several occasions in the "Notes by the editor" in hopes that the attention of the public may be more strongly directed toward the true explanation of the irregularities in daily weather and seasonal climates.

CLIMATE AND HEALTH.

The purpose for which Climate and Health was conceived and designed was stated in the introduction to the first number of the publication to be "to collect the meteorologic and hygienic statistics that might be considered by sanitarians and medical climatologists of the greatest

correlative importance and to publish them in the forms most acceptable and useful to those professions;" that from its pages all persons interested in the influence of climate and weather upon health might obtain the data for making comparisons of the relative therapeutic and hygienic merits of different climates, and for the prosecution of such original researches and studies as they might find the data suitable for. With the issuance of the March number the publication of the periodical was suspended indefinitely, owing to a change in the appropriation bill for the current year, and the consequent uncertainty as to the existence of authority needed for its continuance. Altogether nine numbers, having a total of 266 pages of text and statistical tables and about eighty pages of charts, were issued. The edition of each number was about 1,900, copies.

The time necessarily consumed in the preparation of the various statistical tables, charts, and editorial matter published in Climate and Health precluded the making of any considerable progress in studying the different statistics with a view of determining the correlation of the hygienic and meteorologic states. This line of work will be pursued during the current fiscal year, and if knowledge is acquired which is thought to be useful to the medical profession or to others it will be published in the form of special bulletins.

FORECASTS AND WARNINGS.

Special care was exercised to assign the ablest officials to the important duty of making weather forecasts. The average percentage of verification of forecasts during the year was 82.4, an improvement of 2.4 per cent over that of the previous year. It should be stated, however, that no system of markings will fully determine the comparative value of weather forecasts. Occasionally there are times when the meteorological conditions during the twenty-four to thirty-six hours covered by the forecasts change so rapidly and to such a marked degree that neither the changes nor the sequence in which they happen can be foretold with even a fair degree of accuracy. Doubtless much of the criticism of the forecasts which has been made at times results from the fact that our officials have claimed, and probably the public has expected, more than science is able to do. The defects of a system should be as well understood as its possibilities. In the great majority of cases, however, the atmospheric conditions are such that it is possible to make forecasts and issue danger warnings that are not only almost certain of full verification, but also of incalculable benefit to the marine, agricultural, and commercial interests of the country.

In a great measure the merits of a forecaster are determined by his ability to quickly comprehend the meaning of the charted meteorological data; to discern a portentous condition when it appears, and to fearlessly yet conservatively issue warnings to the many property and industrial interests concerned. During dangerous storm conditions the Chief of Bureau has given the ordering of danger signals his personal supervision. The methods of discipline that have been instituted and the assignments of officials that have been made are such as will, in his opinion, reduce to a minimum the liability of storms dangerous to mariners reaching sea or lake ports without being heralded by storm signals; or of the rivers in our fruitful central valleys reaching the danger line without due notice having been given to shippers and to residents of lowlands contiguous thereto; or of cold waves of any considerable extent sweeping eastward unannounced to those interested in interior commerce.

Three West Indian hurricanes swept the Atlantic coast line from Florida to New England, and two passed northward offshore, but near enough to the coast line to seriously endanger craft about to leave our ports. Danger signals were displayed at all ports well in advance of the storms, and as a result no lives were lost and but little property destroyed. Although these storms sweep our Gulf and Atlantic coasts with all their wonted fury, and storms of somewhat less force cross our Great Lakes from the west, it is now seldom that the country is shocked by the news of a great marine disaster.

The forecasts for the territory east of the Rocky Mountains were issued from the Central Office, except that in the morning the forecasts for Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, Kansas, Nebraska, North and South Dakota, Montana, Wyoming, and Colorado, and the marine storm warnings for the upper lakes were issued exclusively by the Weather Bureau office at Chicago.

The forecasts for California, Arizona, Nevada, and Utah were issued by the Weather Bureau office in San Francisco, and those for Oregon, Washington, and Idaho by the Weather Bureau office in Portland, Oreg.

Marine storm warnings were telegraphed to the lake and seacoast stations, and to the Director of the Canadian Meteorological Service at Toronto; warnings of frosts to fruit, cranberry, tobacco, cotton, and sugar regions, and warnings of severe local storms, cold waves, northers, and dangerous floods to the threatened regions.

Local forecasts of weather, temperature, and in some instances of wind (for the station and vicinity) were issued at 66 stations other than the district forecast centers above named.

COLD-WAVE AND FROST WARNINGS.

It is believed that $15,000,000 would be a conservative estimate of the total actual saving during the year to the country at large due to cold-wave warnings.

Particular attention is called to the cold wave of unusual severity that overspread nearly the entire United States east of the Rocky Mountains on January 2–5, 1896. Warnings of this wave were sent, at least twenty-four hours in advance, to nearly every station in its path. The Weather Bureau observers at the stations visited by the cold wave report an estimated saving on account of the warnings of over $3,500,000. This estimate, from the nature of the case, can be a partial one only. It is interesting to note the variety of industries benefited. Owners and shippers of perishable produce protected their property from injury by frosts or freezing; owners of residences, factories, and distilleries, and custodians of hospitals and public buildings protected water pipes to prevent bursting; railroad officials regulated the size of trains; florists and truck growers protected their hothouses and growing crops; farmers in the South slaughtered their cattle and hogs; river men protected their boats and stock raisers their cattle. In the State of Florida alone, where a large quantity of early garden truck was above ground, the actual figures given by the truck raisers themselves showed a saving by this warning of over $300,000, and this was necessarily only a partial estimate.

A pamphlet prepared by Mr. W. H. Hammon, forecast official, Weather Bureau, at San Francisco, suggesting new methods for protecting fruit trees and growing crops from injury by frost, was published by the Bureau and extensively circulated in the fruit districts of California. During the severe frosts that visited that region in the spring of this year, and of which ample warnings were given, these methods of protection were tried and found quite successful, the savings being estimated at several millions of dollars.

The local forecast official at Galveston, Tex., is authorized to make and distribute special forecasts when frost or freezing weather are anticipated in the sugar and truck growing region in the vicinity of that city. During the past winter every dangerous temperature in this region was forecast. Many acknowledgments of the benefits derived from these warnings were received; the savings were very large, aggregating upward of $100,000.

The forecasts of rain for the raisin districts of California during the last season were of great value to the growers, no rain having fallen without warning. The observer at Fresno, Cal., under date of November 8, 1895, reports that "of the 30,000 tons of raisins cured in the sun thus far not a single pound has been reported damaged by rain."

SEVERE LOCAL STORMS AND TORNADOES.

A large number of destructive local storms occurred during the spring in the Lower Missouri and Central Mississippi valleys. In most instances, including that of the St. Louis tornado of May 27, 1896, these storms were preceded, in the morning forecast, by the following statement: "Conditions are favorable for severe local storms," or "severe local thunderstorms."

MARINE STORM WARNINGS.

In the harbor of Buffalo, during six of the most severe storms of the past winter, a total of over 150 vessels, aggregating in value upward of $17,000,000 and having on board about 1,800 persons, were detained in port by reason of the Weather Bureau warnings; the only vessel that ventured out in the face of the warnings became a total loss. During the unusually severe and

long-continued northeast storm on the New England coast of December 11–13, 1895, 37 vessels, including 7 large steamships, valued with their cargoes at about $2,000,000 and having on board 500 persons, were detained in the port of Boston by the warnings, and probably a large percentage saved from destruction. During the severe storm of February 5–7, 1896, at Charleston, S. C., 22 vessels, valued at $95,000, remained in port two days as a result of the warnings.

The hurricane signal, recently adopted by the Bureau as a warning of tropical hurricanes and of extremely severe and dangerous storms, was displayed on five occasions during the year, twice on the South Atlantic coast for approaching hurricanes during the fall of 1895, and three times for dangerous storms on the Middle Atlantic and New England coasts during the spring of 1896. This signal calls for a widely extended display. Extraordinary efforts were made to disseminate the warnings thoroughly, and on each occasion when it was displayed it was of great benefit to the interests affected. About 120 vessels, varying in size from a fishing smack to an ocean steamer, and valued with their cargoes at upward of a million dollars, remained in port on our southern coasts as a result of the warnings sent out in advance of the tropical hurricane of October 18–24, 1895. Twelve seagoing vessels were detained in port at Nassau, New Providence, by the warnings that were telegraphed the authorities there by the Weather Bureau. The records of the stations near which the hurricane passed show it to have been one of great violence, velocities of 55 miles an hour being reported from Jupiter and Key West and 80 miles at Havana, and exceptionally high tides occurring on the South Atlantic coast.

Two instances are also cited where the Bureau was able to be of assistance to stranded vessels, viz: (1) On March 19, 1896, in the case of the steamer *Craigmore*, which stranded on the Florida coast 8 miles south of Jupiter. The observer at Jupiter opened communication with the vessel and established a temporary telegraph station on the shore, and thus was able to summon assistance. (2) The American liner *St. Paul*, valued at several million dollars, stranded near Long Branch about February 2, 1896; information of anticipated favorable winds was given, and materially aided in floating the steamer.

WIND SIGNAL DISPLAY STATIONS.

Many persons are willing to display the signals without compensation other than the benefits that accrue to local interests by the display. Seventeen wind signal display stations were established during the past year, at 14 of which the displaymen serve without pay. There are in operation at present 173 wind signal display stations, 109 of which are in charge of paid displaymen. In addition to the above, 135 stations, 32 Government vessels, and 30 lines of steamers display hurricane signals alone.

TROPICAL HURRICANE-REPORTING STATIONS.

Daily observations were taken from July 15 to October 15, 1895, at Kingston, Santiago de Cuba, and St. Thomas by paid observers of the Weather Bureau, and arrangements were made with Mr. Felix Gomez Merdicuti, of Merida, Yucatan, to report threatening conditions by telegraph. Such conditions obtained but twice during the season, but reports of these were of great value. The same arrangement is in effect during the current year.

RIVER FORECASTS AND FLOOD WARNINGS.

The special work of the Weather Bureau in connection with the rivers of the country is to facilitate commerce on navigable streams by publishing information daily as to water stages along the course of each river, and to issue timely warnings of floods so as to effect the saving of life and property.

As yet the rules of flood forecasting are largely empirical. The official in charge of a river center is familiar with the main river and its tributaries, the area and topography of the catchment basin, the frequency and intensity of the rainfall (especially the intensity), the average time of passage of flood crests between one station and another, and the history of past rises. A knowledge of low-water conditions, especially where bars and shoals exist, is perhaps of equally great importance as the knowledge of high water.

The official in charge of a river center is expected, with the data at his command, to give information to those interested in navigation during low or medium stages of water that will be of great pecuniary value, but his chief and foremost duty is the dissemination of warnings when floods threaten.

The volume of water passing a station at a given time is known only at a few places, and varies, of course, with high and low water. Nor can simple rules be based upon the rainfall, as the absorptive condition of the soil is not constant.

The principal rivers concerned in the Weather Bureau system are the Allegheny, Monongahela, Ohio, Kanawha, Wabash, Illinois, Tennessee, Cumberland, Mississippi, Missouri, Arkansas, and Red rivers, of the central valleys; the Columbia, Sacramento, and San Joaquin, of the Pacific Coast; and the Hudson, Susquehanna, Potomac, Savannah, Chattahoochee, and Alabama rivers, of the Atlantic and East Gulf coasts.

Each forecaster in charge of a river center has a definite section of the river system of his district assigned to him. He receives the necessary telegraphic reports of rainfall over the tributaries to his river district and also the necessary telegraphic data as to gauge readings nearer the source of the main river than his own station and the gauge readings of many of the tributary streams.

Some idea of the vast destruction of property due to floods may be gathered from the statement that the floods of the springs of 1881 and 1882 caused a loss of not less than $15,000,000 to the property interests of the Ohio and Mississippi valleys. It may also be noted that the flood of the spring of 1882 caused a loss of 138 lives in the region from Cairo southward to New Orleans. The flood of 1884 in the region about Cincinnati caused an estimated loss of over $10,000,000.

In the spring of 1890 the Lower Mississippi Valley was flooded for a distance of forty miles back from the river in the States of Louisiana, Arkansas, Mississippi, and Missouri. Special warnings, which were amply confirmed by subsequent stages of the water, were issued from Washington in advance of the flood, and in several cases far in advance of the flood crest.

Instances are numerous showing the vast utility from a commercial standpoint of a thoroughly equipped Government flood-warning system, notwithstanding the fact that the forecasts are based upon empirical reasoning, and are, therefore, subject to more or less error.

The past year has not been marked by any disastrous floods. The sudden melting of snow at the head waters of the Allegheny caused a moderate flood in the Ohio during the latter part of March and beginning of April. Ample warnings were issued by river officials, and from reports received not less than $75,000 worth of property was saved thereby. At the same time the Tennessee reached flood stage from heavy mountain rains. Of this rise also warning was given and resulted in a considerable saving. Early in July there were unusually heavy rains in the south and middle Atlantic States, which caused floods in the Carolina, Virginia, and West Virginia rivers. The saving in stock, crops, and merchandise in the South Carolina lowlands was reported as $165,000, while preparations were made upon receipt of flood warnings to raft out over $3,000,000 worth of logs, which was subsequently done. It is evident that, even in a year unusually free from floods, the slight expense of the system of river forecasts and flood warnings is many times repaid by the saving of exposed property.

DISTRIBUTION OF FORECASTS AND WARNINGS.

Mr. E. B. Calvert, private secretary to the Chief of Bureau, has described in detail the means adopted to distribute the forecasts and various warnings of the Bureau. The information contained in his report is of sufficient interest and value to warrant reproducing an abstract therefrom in this report.

CLIMATE AND CROP SERVICE.

The work of the Climate and Crop Division (formerly the State Weather Service Division), the general character of which has been outlined in the annual reports of previous years, was continued during the year practically without change.

The designation "State weather service," as applied to the majority of the local meteorological services, being inappropriate to the character of the work performed by these services, the term "State sections of the climate and crop service of the Weather Bureau" was substituted in all cases where the local service was wholly supported by the Weather Bureau. In making this

change it was also desired to emphasize the difference between the terms "climate" and "weather." The titles of the weekly and monthly publications of the various climate and crop services, both at the central office and at outlying centers, were also changed. The former designation, "State weather service," is retained by the few States in which legislative enactments have been considered such as not to warrant the adoption of a more suitable designation. In some States, however, where local services are supported by State appropriations, the titles were changed in accordance with the suggestions of the Chief of Bureau.

The great desideratum of local climate and crop services is uniformity of style and matter in their monthly publications. The subject has been discussed at several conventions of the American Association of State Weather Services, but no satisfactory conclusion has been reached. Since the organization of local climate and crop services their results have been published in a variety of sizes and forms, some quarto, some octavo, some as periodicals containing advertisements and conducted as private enterprises, and still others by one of the many duplicating processes. The monthly bulletins were issued as a private enterprise only as a last resort, and, in some instances, at a considerable personal loss to the official in charge. As a direct result of the equipment of the more important stations with a small plant for printing daily weather maps, it will be possible to eventually publish all of the section climate and crop bulletins in a uniform and attractive style. The size of bulletin best adapted for general use, arrangement of data, construction of charts, and other details were given careful attention. The bulletin finally adopted is an 8-page quarto and the first issue under the new process was that of the New England section for March, 1896. The Pennsylvania section was next equipped with printing facilities, and at the close of the fiscal year the Illinois, Ohio, Wisconsin, Tennessee, and Louisiana sections had also been provided with the necessary printing plants.

At this writing provision has been made for the equipment of 18 of the 42 climate and crop sections with printing facilities. It is intended that all sections shall be similarly equipped. When this has been done a set of bulletins for a given month will be uniform, both as to size and matter, convenient for reference, and easily filed. The equipment of the more important climate and crop sections with printing plants will enable the officials in charge to issue their bulletins at an earlier date, as well as relieve a number of them of the annoying and embarrassing features involved in conducting a private journal.

CLIMATE AND CROP BULLETINS.

The publication of the National Climate and Crop Bulletin and the weekly bulletins of the various climate and crop services throughout the country has met with the same high appreciation noted in former years. It has been necessary to increase the edition of the National Bulletin 68 per cent in order to meet the demands for this publication. There has also been a corresponding increase in the editions of the section bulletins. But while the circulation of the State and national bulletins has largely increased, the press is relied upon as the chief means of conveying the information they contain to the public.

The climate and crop service of the Weather Bureau furnishes the public from week to week with trustworthy information concerning climate and crop conditions. Reports from 8,000 special correspondents concerning the effects of the weather upon crops are summarized by experts at State centers and studied in connection with the prevailing weather conditions. The information thus obtained is often the means of correcting erroneous impressions that have been created by the circulation of false reports. The rainfall and temperature conditions have been charted with greater precision than heretofore, as a consequence of the increased number of reports made available by the organization of a corn and wheat service. A file of the weekly bulletins for each State forms a most thorough and complete history of the climate and crop conditions of the year.

COTTON, SUGAR, AND RICE SERVICE.

A very decided improvement was made in the service conducted for the benefit of the cotton, sugar, and rice interests by changing the hour of observation from 6 p. m. to 8 a. m., seventy-fifth meridian time. This change went into effect September 1, 1895, as noted in my previous

report, since which date the daily bulletins for the 24-hour period ending with the time of observation have been issued soon after 8 a. m. As a rule they now reach the public nearly as early as when issued in the evening, and since they contain later information by twelve hours, the value of the bulletins is greatly enhanced.

CORN AND WHEAT SERVICE.

The value of the system of observations and reports conducted for the benefit of the cotton, sugar, and rice interests led the Chief of Bureau to recommend to the honorable Secretary of Agriculture that an appropriation be made by Congress for the maintenance of a similar system covering the principal corn and wheat producing States of the central valleys and the Northwest. Congress made the appropriation as recommended, and the new service was duly inaugurated. The region covered embraces the States north of the Ohio and Missouri rivers, Kentucky, southern Missouri, Kansas, and Nebraska. There are 131 substations which report the rainfall and temperature of the growing fields to certain central offices each morning. The substations are grouped under nine district centers, as follows: Chicago, Ill., 22; Columbus, Ohio, 14; Des Moines, Iowa, 13; Indianapolis, Ind., 10; Kansas City, Mo., 15; Louisville, Ky., 16; Minneapolis, Minn., 19; Omaha, Nebr., 12; St. Louis, Mo., 10.

The corn and wheat service has proved one of the most popular and useful features added to the work of the Weather Bureau in recent years, as is evidenced by the following extracts from the annual reports of the officials in charge of some of the district centers:

Des Moines.—A new feature most highly commended by all classes is the corn and wheat region service recently established by the Weather Bureau. It has proved to be of great utility to the general public.

Minneapolis.—The information received from corn and wheat observers is bulletined, and 15 copies issued daily to persons applying for the same. Besides this method of dissemination the reports of the Minneapolis center, which embraces nearly all of the spring-wheat region, are printed on the daily weather map, and thereby given a circulation of 150 extra copies. Furthermore, the three daily evening newspapers publish the bulletin complete.

Louisville.—The establishment of the corn and wheat region service * * * has proved to be one of the most popular innovations ever introduced by the Weather Bureau, and has added largely to the high estimation in which the service is held here.

Omaha.—The service is extremely popular and gives perfect satisfaction.

Indianapolis.—The Indiana section of the corn and wheat service began operations on May 11, 1896. The reports are received from eleven Indiana stations of observation and from nine section centers. Thirty bulletins are sent out to the merchants and boards of trade in the city and State, and the full report is published in the Indianapolis News.

The information contained in the bulletin has been very favorably commented upon by the merchants and others from the beginning, and this publication is considered one of the best and most important issued by the Weather Bureau.

St. Louis.—The new corn and wheat region service has met with marked favor, and will no doubt continue to meet with increased approbation.

SNOW AND ICE CHARTS.

A chart showing graphically and by means of text and tables the depth of snow on the ground at 8 p. m. of the preceding day is published each Tuesday from December to March. The thickness of ice in rivers and harbors is also shown in the tables. The interest manifested in these charts continues as in former years, and the mailing list has been increased considerably. The influence of a covering of snow upon winter wheat is such as to render these charts a source of useful information, and the ice data given are of considerable importance to lake marine interests. During the early spring especial attention is devoted to the collection and publication of information relative to the ice on the Great Lakes. The ice reports are not as satisfactory as might be desired, owing to difficulties in securing measurements at some stations, but notwithstanding the defects of the present system, it serves a useful purpose.

ECONOMICAL EXPENDITURES.

Notwithstanding the rapid extension of the work of the Weather Bureau, the advancement given to meritorious observers of long service, and the improvements made, as shown in detail in the foregoing pages, the expenditures were less than during any year of the last fifteen, except one, and in this one the expenditures were practically the same as during the past year.

HOW THE WEATHER BUREAU DISSEMINATES FORECASTS AND WARNINGS.

By E. B. CALVERT, *Private Secretary to the Chief of Bureau.*

Nearly everyone is more or less familiar with the forecasts issued daily by the Weather Bureau, but comparatively few are acquainted with the methods used in giving the information to the public. Forecasts are usually made for a period twenty-four to thirty-six hours in advance. It is obvious that they should be disseminated at the earliest possible moment.

The most effective medium of distribution, so far as the number of people reached is concerned, is the daily newspaper. Morning and evening the press is furnished with copies of the forecasts, either direct from the Central Office in Washington, by local observers in charge of outlying stations, or through the agency of the different news distributing associations. The latter include a full report of weather forecasts in the service given to their subscribers. However effective the press service may be in disseminating forecasts, it can not be used to distribute danger and emergency warnings. These, from the nature of the case, must be sent at once by telegraph. Within thirty minutes after the forecasts are issued by the Washington, Chicago, San Francisco, and Portland offices (the four principal forecasting centers) they have been telegraphed to hundreds of towns and villages and are in the hands of the people. The telegraph companies give forecast and warning messages precedence over other business.

On receipt of forecast messages at a substation of the Weather Bureau the official in charge repeats them by telegraph to the many towns and villages in the vicinity, usually covering an area within a radius of 50 or 100 miles from his office. To facilitate the sending of a large number of messages, the names of the places to receive the forecasts are arranged on sheets according to the circuits of the telegraph company. The message to be sent is written on each of the sheets, all of the operators on the line are called up, and a single sending of the message suffices for all of the offices on the line. When from 150 to 500 messages are thus sent from one office, as is frequently the case, the gain in time is considerable.

Thus we see that, primarily, the telegraph is used in sending the predictions to the various Weather Bureau offices throughout the country. Other methods of dissemination are adopted after the receipt of forecast telegrams at substations.

The telephone is one of the most valuable adjuncts in disseminating the forecasts to outlying towns and within the limits of the city. In nearly all of the large cities the telephone companies cooperate with the Weather Bureau in this work. As soon as the forecast is received at the central telephone station every office on the line is given the information, and these substations repeat it to such subscribers as call for it; besides, they stamp the forecast on cards furnished for the purpose and display them in the offices in such a way as to be accessible to the public.

Lists are prepared at the various Weather Bureau offices showing to whom forecasts of heavy snow, high winds, etc., should be sent, and a duplicate set of lists is filed with the local telephone company. It is then a very simple matter to advise the persons concerned that heavy snow is likely to occur, or that dangerous gales are expected.

After the resources of the telegraph and telephone have been exhausted the mails are utilized to carry the forecasts into many towns, villages, and hamlets. This method of distribution is very simple and effective. The distributing centers are supplied with sets of rubber type made up of words usually found in the forecast. The forecast can be quickly set up and stamped on the back of an ordinary postal card. An expert can stamp about 800 cards in fifteen minutes. It is thus possible to supply a large number of communities in a very short time.

Forecasts are also printed on the daily maps issued at Weather Bureau stations. Over 3,000,000 maps are distributed each year.

Various systems of visual and sound signals for disseminating forecasts have been suggested. Thus far no system of visible signals has been perfected that for cheapness, durability, and simplicity excels the flag system. Flags are used by the Weather Bureau to indicate the weather of the coming day, the approach of a cold wave, the approach of dangerous winds, and hurricanes. Visible signals are also carried to a limited extent by railway trains that pass through rich agricultural communities.

The system of audible signals in use at present consists in sounding steam whistles of stationary engines at stated periods, and in a few cases of locomotive whistles. The latter is in successful operation in Florida, where the needs of truck growers are especially prominent.

A novel means of disseminating weather forecasts was suggested by Mr. F. P. Chaffee, section director of the Alabama climate and crop service. It consists in combining the matter usually found in the dating stamps used to indicate the date and time of receipt of mail with the daily forecasts, the combined stamp showing both the time of receipt of the mail matter and the forecast for the next twenty-four hours. This system has not come into general use.

Some mechanical device for attachment to telephones, etc., is needed whereby special warnings can be sent out instantly and simultaneously to all sections of a city by means of a mere turn of a key at the central telephone station. Such an appliance would be invaluable for giving warnings of the sudden development of storm conditions not covered by the regular forecasts. At times of specially portentous conditions, when the warnings are most valuable, this device would serve a purpose impossible to be accomplished otherwise.

TORNADOES, 1889-1896.

By ALFRED J. HENRY, *Chief of Division of Records and Meteorological Data.*

The reports of severe local storms received from Weather Bureau observers and special correspondents during the period 1889-1896 have been examined with a twofold object, viz, (1) to separate the storms having the characteristics of a tornado from those of a less violent form and (2) to gain a better knowledge of the occurrence and geographical distribution of the first-named class.

The chief characteristics of a tornado are assumed to be (1) a pendant funnel cloud and (2) violent, rotary winds over a well-marked but narrow path. All storms not fulfilling these conditions were rejected. When it was impossible to see the cloud mass on account of darkness, the evidences of whirling found in the débris were accepted as indicating the character of the storm. It was possible to determine the nature of the majority of storms reported. In a few cases the evidence was not conclusive and the storms were rejected. Such cases, however, form but a small percentage of the whole.

It is believed that the essential details of a tornado are embraced in a statement of the loss of life and property, the length and breadth of the path of great destruction, and the direction of movement.

The available information under the foregoing headings has been embodied in the yearly lists which appear on subsequent pages.

From the nature of the case there is considerable uncertainty as regards the path of great destruction, particularly the length. It is obvious that the length of the path of great destruction can not be accurately determined except by personal inspection. Tornadoes have been traced in an uninterrupted course for a hundred miles. Such cases, however, are exceptional. During the eight years under consideration tornadoes of unusual length and violence occurred on June 15, 1892; April 19 and July 6, 1893; September 21, 1894, and May 17, 1896.

The width of the path of great destruction is more accurately stated, although it is apparent that at times the reporter gave the width of the whole path over which destruction was observed. The tornado of April 19, 1893, is a notable example of a storm in which the path of great destruction was unusually wide. Reliable information from independent sources establishes the verity of the statement which appears in a report from Pachuta, Miss., dated May 2, 1893: "The width of the path of great destruction in the storm was from 1 to 2 miles; everything was swept away; even the growing grass seemed as though a tide of water had passed over it. About the center nothing was left."

The casualties are believed to be accurately stated. The total number of persons killed each year by violent winds, as published on page 255 of this volume, includes deaths by violent thunderstorms and other severe winds not tornadic in character; the totals are larger, therefore, than will be found in this report.

The direction of movement in the great majority of cases is toward the northeast, and there is a decided tendency at times to form and move in that direction in parallel lines.

The character of the tornado cloud seems to vary somewhat with location and probably with the hygrometric state of the air. In the Dakotas, Nebraska, Kansas, and Oklahoma the funnel cloud is frequently observed for miles as it passes over the prairie. It is generally clear cut, well defined, and when quite narrow exhibits the characteristics of an overgrown whirlwind. In the Gulf States and the humid regions of the Atlantic seaboard the funnel cloud is not so well defined, and cases of severe tornadoes are of record wherein the funnel cloud was absent.

As the work progressed it became evident that a rigid adherence to the rule adopted for classifying tornadoes would include a number of storms which, by the accident of chance, passed through a thinly settled region or diminished in intensity before reaching any considerable settlement. The property loss caused by a single severe hailstorm is often greater in the aggregate than that of a dozen such storms, yet their insertion in the lists is proper and necessary.

A few useful deductions may be made from the lists and charts which conclude this report: We may ascertain, first, where and when tornadoes occur. The yearly charts show at a glance the location of each tornado that has been reported to the Weather Bureau during the last eight years. It will be noticed that certain portions of the United States are exempt from tornadoes, while other portions, notably the great interior valleys, are subject to them each year. It will also be observed that while the number of storms varies each year, there is little change in the locations in which they occur. Moreover, it will be found by an examination of the detailed lists that the relative frequency in the several months of the various years is also fairly constant. We will find by tabulating the records that in the winter months tornadoes occur in the Gulf States only; that with the gradual warming up of the valleys and plains of the interior they occur farther and farther to the northward until the month of June, which we shall find is the month of greatest frequency in Nebraska, South Dakota, Iowa, and Minnesota. The northern half of North Dakota, a portion of northern Minnesota and Wisconsin are practically free from tornadoes, but the country southward to the Gulf and eastward to the Atlantic is more or less liable to be visited by them. Some portions of this vast expanse of territory have never been visited by a tornado, and possibly never will be.

We will also find that during the period of greatest frequency in northern latitudes very few occur in the Gulf States, and that many more occur in May and June in the middle and northern latitudes than at any other place or during any other period of the year. During the last eight years there have been 6 days in January on which tornadoes occurred, 10 in February, 16 in March, 31 in April, 42 in May, 51 in June, 25 in July, 11 in August, 4 in September, 2 in October, 3 in November, and 5 in December. It must not be assumed that the same relative frequency obtains each year. Occasionally there are more tornadoes in April than in any other month, yet on the average of a number of years it is probable that there will be more in May and June than in any other corresponding period.

We also learn from further inspection of the records that the storms of April and May frequently occur almost simultaneously over very considerable areas, while the storms of the summer and winter months are, as a rule, restricted to the smaller boundaries of a single State. The widespread storms of April 11 and 12, 1893, serve to illustrate this distinguishing feature of April and May storms.

The very destructive storms occur principally in the late spring and early summer months (March to June, inclusive). During the last eight years no severe tornado has occurred in August west of the Allegheny Mountains, and but one each in July, September, and October.

In the Middle States and New England, on the other hand, no very severe tornado has occurred before July or August, generally the latter month.

The following figures show the estimated property loss by tornado during each year of the period 1889–1896.[1] The estimates on which these figures are based were made, in the majority of cases, by persons on the ground at the time of destruction. In some cases they were made by the writer, based on a report of the number and character of buildings destroyed.

How near the estimated amounts approach actual losses is of course impossible to determine. It is believed they are close to the truth in the majority of cases; there are some instances, however, in which the estimates seem to be rather high.

[1] To June 30 of the latter year only.

*Property loss by tornadoes during the period 1889–1896.**

State.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	Total.
Alabama			$7,000		$125,000	$1 500	$30,600	$5,000	$169,100
Arkansas				$4,500	45,400	508,600	1,000	200	559,700
Florida						2,000			2,000
Georgia	$10,000	$500			212,500	3,000	22,000		248,000
Illinois	10,000	485,500		323,500	13,000		12,000	103,000	947,000
Indiana		500	9,500		20,000	2,500	12,000		44,500
Indian Territory					1,500			500	2,000
Iowa		29,000	8,500	58,000	274,500	39,000	60,000	75,000	544,000
Kansas	28,500		7,500	371,500	148,500	9,000	120,000	272,000	957,000
Kentucky		2,841,500	3,500		80,000			6,000	2,931,000
Louisiana					70,000	6,000			76,000
Maine				13,000					13,000
Maryland	3,500	15,000	3,000		10,000				31,500
Massachusetts		60,000							60,000
Michigan					240,000	1,000		400,000	641,000
Minnesota	10,000	16,000	15,000	103,500	12,200	419,500		2,000	578,200
Mississippi			19,000		277,000	8,800			304,800
Missouri	10,000	18,500	71,000	13,000	50,000	1,500		12,904,900	13,068,900
Nebraska		480,000	6,200	90,000	29,000	1,900	6,000	50,000	663,100
New Jersey			2,000	8,500			70,000		80,500
New York	11,000			25,000	22,000				58,000
North Carolina		1,000			20,000				21,000
North Dakota		300							300
Ohio	10,000	15,000		27,500		51,000		100,000	203,500
Oklahoma				2,000	60,000	2,000		300	64,300
Pennsylvania	77,500	427,000	1,000	7,000	4,000			106,000	622,500
South Carolina			1,000		13,000	500			14,500
South Dakota			400	15,000		15,500	29,000	21,000	80,900
Tennessee		60,000		2,000	22,000		6,000		90,000
Texas			28,000	54,000	290,700	119,600	15,000	171,000	678,300
Virginia								2,000	2,000
West Virginia	3,000								3,000
Wisconsin			4,000		3,500		100		7,600
Total	173,500	4,449,800	186,600	1,118,000	2,043,800	1,192,900	383,700	14,218,900	23,767,200

* To June 30 only.

The number of storms and the property loss bear no definite relation to each other, and the latter is very irregularly distributed throughout the eight-year period. More than half of it, over $12,000,000, is chargeable to less than a half hour's destruction in St. Louis, Mo., and East St. Louis, Ill., on May 27 last. The year having the next greatest loss (1890) was also marked by very great destruction in Louisville, Ky. It was estimated that property aggregating in value over $2,000,000 was destroyed in that city alone, more than the total destruction of any other year, except the present (1896). Happily, instances of such great destruction are quite rare.

The very destructive storms of the last eight years occurred on the dates indicated by bold-face type in the printed lists, 24 in number. More than 90 per cent of the property loss of the eight years fell on these twenty-four days. The remaining 10 per cent was distributed throughout one hundred and eighty-three days in which tornadoes of greater or less violence occurred. This fact should not be overlooked. The great tornadoes of the past eight years have averaged about 3 per annum. There were none in 1889, 4 in 1890, none in 1891, 4 in 1892, 7 in 1893, 3 in 1894, none in 1895, and 6 in 1896. Lists of very destructive storms for the eighteen years previous to 1889 show an average of 3 per annum; we are, therefore, reasonably certain that the average of really destructive storms (say those in which the loss is $100,000 or more) is not above that number.

EXPLANATION OF THE LISTS AND CHARTS.

The arrangement of the lists is chronological and by dates. A single storm occurring on any given date is given its proper number in the chronological arrangement. A corresponding number is given to the storm on the chart as a means of identification. When two or more storms

occurred on a single date one general number is used, and the separate storms are indicated by subscript letters; thus the three separate storms in Georgia on February 18, 1889, are given the following numbers, viz, 2, 2*a*, 2*b*.

The position of the arrow on the charts is intended to represent the approximate location of the storm. The length of the arrow does not indicate the length of the storm track, except in a few cases of storms of extraordinary length.

1889.

No. 1, January 9.—Reading, Pa. Storm moved west to east. Eighteen killed; many injured; property loss about $75,000. While the center of a general storm was passing from lower Michigan to Lake Huron, severe local storms, in a few cases of unusual violence, occurred throughout Ohio, Pennsylvania, and New York. An unfinished building was blown down in Pittsburg and 15 persons were killed in the wreckage. The storm at Reading did not have all of the characteristics of a tornado, but because of its narrow path (60 to 100 feet) and the characteristics of the wind within the path, it is here given. A crushing effect was reported, particularly in the case of the Reading Silk Mill, a substantial four-story structure in which the greatest loss of life occurred.

No. 2, February 18.—4 a. m. (local time); Banks County, Ga. Two killed, a number injured; storm moved northeast.

No. 2a.—5 a. m. (local time); Griffin, Ga. No casualties; storm moved northeast.

No. 2b.—7 a. m. (local time); Putnam County, Ga. No casualties; aggregate property loss about $10,000; storm moved northeast.

No. 3, March 31.—2.30 p. m. (Central time); near Hamilton, Hamilton County, Tex. Three killed and 3 injured; property loss small. This was an ordinary prairie whirlwind that suddenly developed great intensity and soon dissipated. The path was about 20 feet in width and less than 3 miles in length; moved northward.

No. 4, April 18.—10 p. m. (Central time); Hinckley, Ill. Three injured; property loss $10,000; path about 100 feet wide, length 10 miles; moved east.

No. 5, May 6.—6 p. m. (Central time), Pratt County, Kans.; 7.30 p. m. (Central time), Stafford County; 8.15 p. m. (Central time), Rice County. Three killed; 14 injured; property loss about $8,000; width of path variable, quite narrow in places (150 to 200 feet); length about 50 miles, but the destruction was not continuous throughout its entire length; moved north-northeast.

No. 5a.—11.20 p. m. (Central time); Hollenberg, Washington County, Kans. One injured; property loss about $4,000; width of path 200 feet, length uncertain; moved northeast. Hollenberg is north-northeast of Sterling, where No. 5 was last seen, and about 140 miles distant. A velocity of 47 miles per hour would carry the storm cloud from Sterling to Hollenberg in the time that elapsed between the appearance of the tornado at the two places.

No. 6, May 11.—4 p. m. (Eastern time); near Richmond, Va. Two killed; 1 injured; property loss small; path 100 feet wide; length, 10 miles. This appears to have been more of the nature of a violent whirlwind than a tornado; moved southwest (?).

No. 7, May 20.—12.15 p. m. (Eastern time); Clarks Summit, Pa. No casualties; property loss about $2,500; path 200 feet wide, 5 miles long; moved north.

No. 8, May 28.—2 p. m. (Central time); McPherson County, Kans. No casualties; property loss about $2,500 in county; path 150 feet wide, length uncertain.

No. 8a.—4 p. m. (Central time); Chase County, Kans. One killed; 5 injured; property loss about $8,000; path 100 feet wide, length uncertain. Probably the same as No. 8. Both storms moved due east.

No. 9, May 30.—3 p. m. (Eastern time); near Falling Waters, W. Va. Two killed; 2 injured; property loss about $3,000; path 100 feet wide, 3 miles long; moved northeast.

No. 9a.—3.30 p. m. (Eastern time); Williamsport, Md. Three killed; 2 injured; property loss about $3,500; path 40 feet wide, 9 miles long; moved northeast. Probably same as above.

No. 10, June 8.—2 p. m. (Central time); Chautauqua County, Kans. (southeast corner). No casualties; property loss about $6,000, path 600 feet wide, length uncertain; moved northeast.

No. 11, June 9.—4.30 p. m. (Eastern time); Lewis County, N. Y. (southern portion). One killed; 5 injured; property loss about $3,000; path 150 feet wide, about 10 miles in length; moved southeast.

No. 12, June 20.—1 p. m. (Central time); Parnell, Mo. Seven injured; property loss about $10,000; width of path unknown, length about 12 miles; moved northeast.

No. 13, July 25.—4 p. m. (Central time); Waterville, Minn. One injured; property loss about $5,000; path 200 feet wide, 3 miles long; moved east.

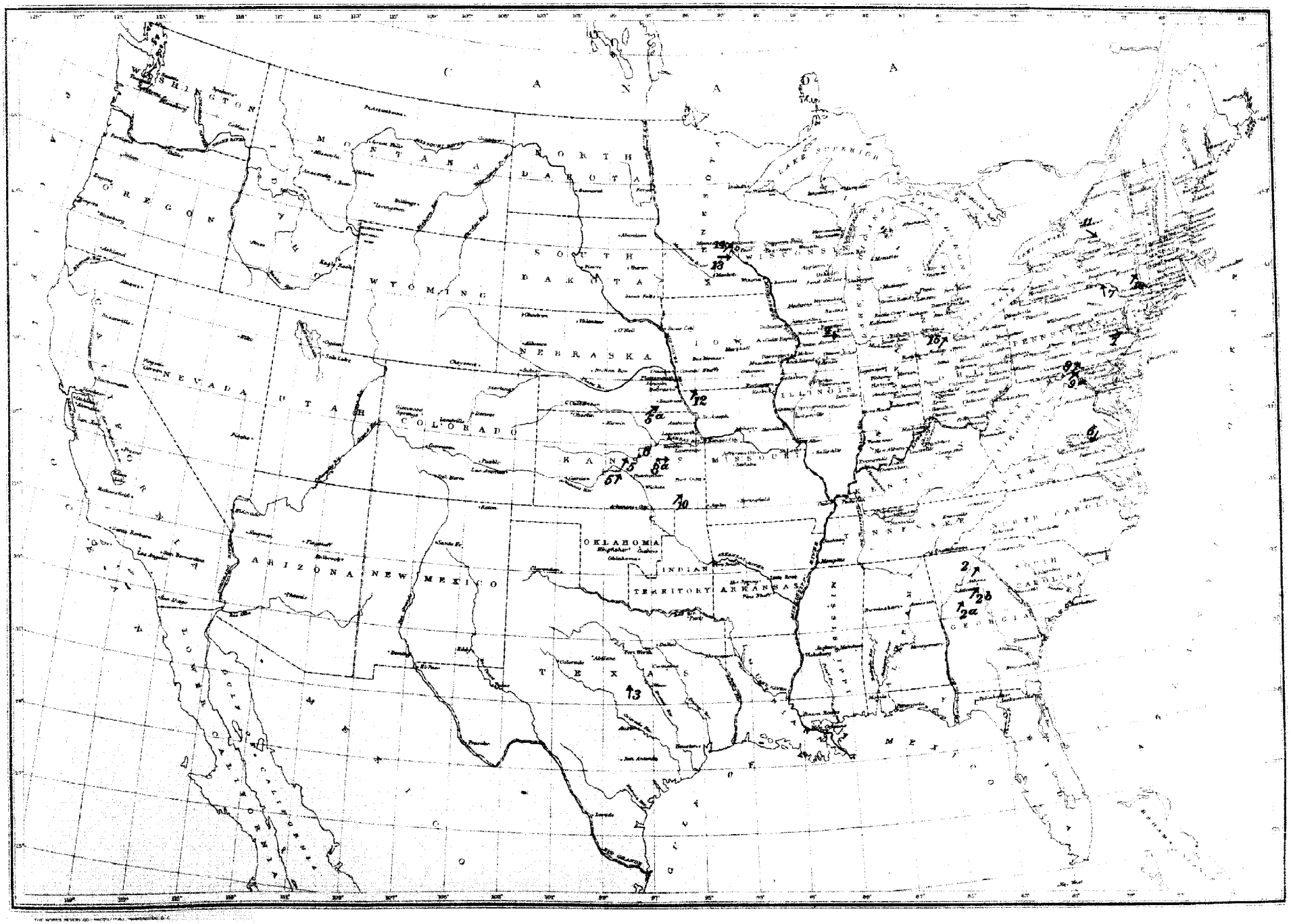
No. 14, July 26.—3.58 p. m. (Central time); New Prague, Minn. (near). Six injured; property loss about $5,000; path varied in width from 45 to 800 feet; length about 17 miles; moved northeast.

No. 15, July 28.—3.30 p. m.; Findlay, Ohio. No casualties; loss about $10,000; path 300 feet wide, 3 miles long; moved northeast.

No. 16, July 30.—7.25 p. m.; Ulster County, N. Y. One killed, 2 injured; property loss about $8,000; path 500 feet wide, 1 mile long; moved northeast.

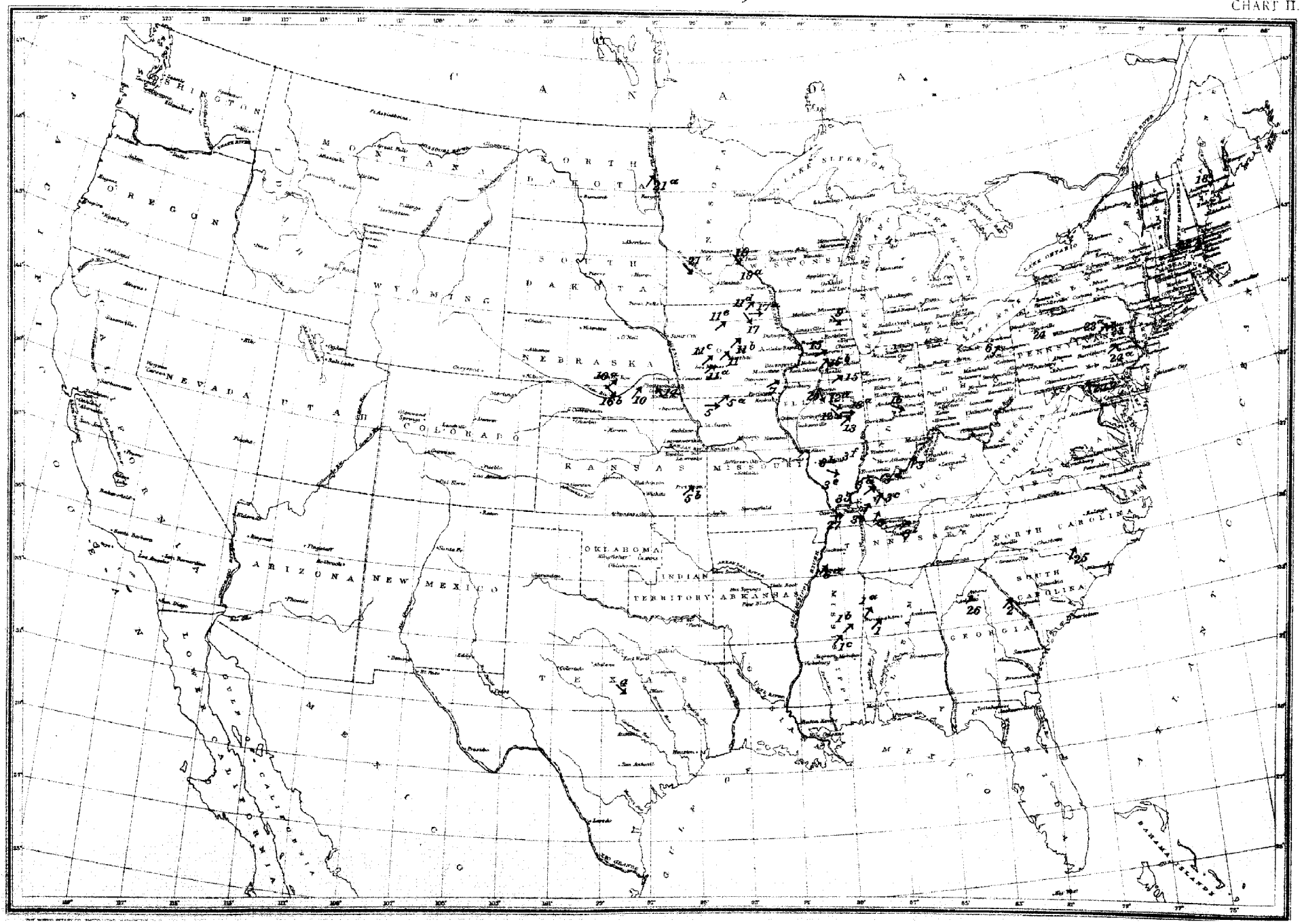
TORNADOES, 1889.

CHART I.



TORNADOES, 1890.

CHART II.



1890.

No. 1, February 27.—7.30 p. m. (Central time); near Carrollton, Pickens County, Ala. One killed; 3 injured; loss of property unknown; no funnel was observed, but the storm had a whirling motion; dimensions of path not given; moved northeast.

No. 1a.—No time given; near Providence, Pickens County, Ala. No casualties; property loss unknown; width of path unknown; length 2 or 3 miles; moved northeast.

No. 1b.—3 p. m.; Perrysville, Winston County, Miss. No casualties; loss of property unknown; dimensions of path not known; funnel cloud observed; moved northeast.

No. 1c.—About noon; Carthage, Leake County, Miss. No casualties; property loss unknown; dimensions of path not known; moved northeast.

No. 2, March 22.—1.30 p. m.; near Thomson, McDuffie County, Ga. No casualties; property loss unknown; dimensions of path not known; moved northeast.

No. 3, March 27.—7.50 p. m.; Louisville, Jefferson County, Ky. Seventy-six killed; 200 injured; loss of property $2,500,000; average width of path through city about 300 yards; length not given; moved northeast.

No. 3a.—Time not given; Webster and Crittenden counties, Ky. Passed over towns of Marion, Dixon, and Blackford; 18 killed and a number injured; probable loss of property $275,000; path in Webster County about 32 miles long and one-fourth to three-fourths of a mile wide; moved northeast; in Crittenden County moved east and traveled 25 miles through county.

No. 3b.—Time not given; Lyon County, Ky. Five killed and a number injured; property loss $15,000; dimensions of path not known; moved northeast.

No. 3c.—7 p. m.; Bremen, Muhlenberg County, Ky. Several injured; probable loss of property $20,000; dimensions of path not known; direction of movement not given.

No. 3d.—7 p. m.; Patesville, Hancock County, Ky. No casualties; property loss $1,500; dimensions of path not known; funnel cloud; direction of movement doubtful.

No. 3e.—Time not given; Grand Tower, Jackson County, Ill. Four killed and about 60 injured; property loss about $50,000; dimensions of path not known; direction of movement not given.

No. 3f.—Time not given; Olney, Richard County, Ill. Five killed; probable loss of property $50,000; dimensions of path not known; direction of movement not given.

No. 3g.—Time not given; Metropolis, Massac County, Ill. One killed and about 50 injured; probable loss of property $150,000; dimensions of path not known; direction of movement not given.

No. 3h.—5.30 p. m.; near Sunfield, Perry County, Ill. No casualties; probable loss of property $2,000; width of path about one-half mile and length 3 miles; moved southeast.

No. 3i.—8.30 p. m.; near Rogana, Sumner County, Tenn. Four killed and 5 injured; probable loss of property $50,000; dimensions of path not given; moved northeast.

The above list for March 27, 1890, includes the greater portion of the remarkable series of tornadoes that occurred in Kentucky, southern Indiana and Illinois, and southeastern Missouri. In Kentucky alone over 100 persons were killed and property aggregating in value nearly $4,000,000 was destroyed.

No. 4, May 4.—4 p. m.; near McGirk and Indian Gap, Hamilton County, Tex. No casualties; property loss unknown; width of path about 150 yards; length 100 yards; funnel cloud observed; moved southeast.

No. 5, May 9.—5.30 p. m. (Central time); Martinsville, Harrison County, Mo. Three killed; loss of property about $10,000; dimensions of path not known; moved east.

No. 5a.—5.50 p. m. (Central time); Blythedale, Harrison County, Mo. No casualties; loss of property from $7,000 to $10,000; dimensions of path not known; moved northeast.

No. 5b.—4 p. m.; near Fredonia, Wilson County, Kans. Two killed; 10 injured; loss of property unknown; dimensions of path not known; moved northeast.

No. 6, May 10.—4.54 p. m. (Central time); Akron, Summit County, Ohio. Several injured; loss of property about $15,000; average width of path about 300 feet; length unknown; moved northeast.

No. 6a—7.30 p. m.; near Memphis, Shelby County, Tenn. No casualties; probable loss of property $10,000; dimensions of path not given; moved northeast.

No. 7, May 22.—6 p. m. (Central time); New London, Henry County, Iowa. No casualties; property loss about $10,000; dimensions of path not given; moved northeast.

No. 8, May 23.—7 p. m. (Central time); near Hopkinsville, Christian County, Ky. Six killed; loss of property about $30,000; dimensions of path not given; moved northeast.

No. 9. May 30.—4 p. m.; Ottawa, Waukesha County, Wis. No casualties; property loss not given; width of path about 1 mile; length 3 to 4 miles; funnel cloud observed; moved southeast.

No. 10, June 3.—8 p. m. (Central time); Bradshaw, York County, Nebr. Seven killed and over 100 injured; probable loss of property $400,000, including loss in county; dimensions of path not given; moved northeast.

No. 11, June 4.—Between 3 and 4 p. m. (Central time); Perry, Dallas County, Iowa. Several injured; probable loss of property $4,000; dimensions of path not given; moved northeast.

No. 11a.—About 1 p. m. (Central time); Adair, Adair County, Iowa. No casualties; property loss not given; dimensions of path not given; moved northeast.

No. 11b.—2.40 p. m. (Central time); near Hubbard, Hardin County, Iowa. No casualties; property loss about $10,000; dimensions of path not given; moved northeast.

No. 11c.—Between 2 and 3 p. m.; Boone County, Iowa. One killed; others injured; property loss not given; path 20 to 25 rods wide and about 20 miles long; moved northeast.

No. 11d.—About 3.30 p. m.; near Chester, Howard County, Iowa. Several injured; loss of property about $2,000; width of path 20 to 30 rods and about 18 miles long; moved northeast.

No. 11e.—2.30 p. m. (Central time); Renwick, Humboldt County, Iowa. Two injured; several buildings and a bridge destroyed; dimensions of path not given; moved northeast.

No. 12, June 11.—11.10 a. m. (Central time); Clinton, Dewitt County, Ill. No casualties; no serious damage; dimensions of path not given; funnel cloud observed; moved southeast.

No. 12a.—11.30 a. m. (Central time); Wapella, Dewitt County, Ill. Three injured; property loss about $15,000; dimensions of path not given; funnel cloud observed; moved southeast.

No. 13, June 14.—5 p. m. (Central time); near Monticello, Piatt County, Ill. No casualties; slight damage to property; dimensions of path not given; funnel cloud; moved northeast.

No. 13a.—5 p. m. (Central time); Lodge, Piatt County, Ill. No casualties; loss of property about $500; dimensions of path not given; moved east.

No. 14, June 16.—4.05 a. m. (Central time); Lincoln, Lancaster County, Nebr. No casualties; loss of property about $25,000; dimensions of path not given; funnel cloud observed; moved northwest.

No. 15, **June 20.**—4 p. m. (Central time); near West Brooklyn, Lee County, Ill. Twelve killed; probable loss of property $200,000; dimensions of path not given; moved east.

No. 15a.—3.10 p. m. (Central time); Cornell, Livingston County, Ill. No casualties; loss of property from $3,000 to $5,000; width of path one-half mile; length not given; moved northeast.

No. 15b.—About 4 p. m.; Sublett, Lee County, Ill. One killed; loss of property between $10,000 and $15,000; dimensions of path not given; moved northeast.

No. 16, June 22.—4 p. m.; Shannondale, Montgomery County, Ind. No casualties; property loss about $500; dimensions of path not given; funnel cloud observed; moved southeast.

No. 16a.—3.20 p. m. (Central time); Sweetwater, Buffalo County, Nebr. Several injured; loss of property about $50,000; dimensions of path not given; moved southeast and then northeast.

No. 16b.—About 3 p. m. (Central time); Pleasanton, Buffalo County, Nebr. No casualties; probable loss of property $5,000; dimensions of path not given; funnel cloud observed; moved southeast.

No. 17, June 23.—6 p. m. (Central time); Riceville, Mitchell County, Iowa. No casualties; 10 buildings totally or partially destroyed; dimensions of path not given; moved east by southeast.

No. 17a.—About 6 p. m. (Central time); Saratoga, Howard County, Iowa. No casualties; loss of property about $3,000; dimensions of path not given; moved east.

No. 18, July 3.—About 6.30 p. m. (Eastern time); Winthrop, Kennebec County, Me. One killed; loss of property not known; width of path 500 feet; no length given; moved east.

No. 19, July 13.—6 p. m. (Eastern time); New Canada Township, Ramsey County, Minn. Six killed; loss of property about $2,000; width of path from 400 to 800 feet; length about one-half mile; funnel cloud observed; moved southeast.

No. 19a.—About 9 p. m. (Eastern time); Lake City, Wabasha County, Minn. No casualties; loss of property about $10,000; dimensions of path not known; direction of movement not given.

No. 20, July 17.—2.40 p. m. (Central time); Wesley, Tazewell County, Ill. One killed; probable loss of property $3,000; dimensions of path not given; moved east of south.

No. 21, July 22.—5.30 p. m.; passed over towns of Marshall and Ghent, Lyon County, Minn. Reached Ghent about 6 p. m. and Marshall 6.10 p. m. One killed; several injured; probable loss of property, $4,000; width of path 210 feet; length not given; moved southeast.

No. 21a.—12.10 p. m. (Central time); Galesburg, Traill County, N. Dak. Two injured; probable loss of property $300; dimensions of path not given; moved northeast.

No. 22, July 26.—9.15 a. m. (Eastern time); Lawrence, Essex County, Mass. Eight killed and 63 injured; property loss about $60,000; dimensions of path not given; moved northeast.

No. 23, **August 19.**—About 5.32 p. m. (Eastern time); Wilkesbarre, Luzerne County, Pa. Sixteen killed; probable loss of property $400,000; moved a little north of east.

No. 23a.—5 p. m. (Eastern time); Harveyville, Luzerne County, Pa. Three killed; probable loss of property $25,000; dimensions of path not given; moved east-northeast.

No. 24, August 21.—About 1 p. m. (local time); Fryburg, Clarion County, Pa. No casualties; one building destroyed; width of path about 50 yards; length not given; funnel cloud observed; direction of movement not given.

No. 24a.—5 p. m.; Sheridan, Lebanon County, Pa. No casualties; loss of property about $2,000; width of path about 170 feet; length not given; moved northeast.

No. 24b.—3.10 p. m. (Central time); near Hagerstown, Washington County, Md. No casualties; property loss about $15,000; path one-fourth mile wide, 14¼ miles long; funnel cloud observed; moved north.

No. 25, October 16.—Between 3 and 4 p. m. (Eastern time); Hasty, Richmond County, and Maxton and Floral College, Robinson County, N. C.—three towns within a radius of 20 miles. One killed; probable loss of property $1,000; width of path about 60 feet; length not given; moved northeast.

No. 26, December 8.—9 p. m. (Central time); Jersey, Walton County, Ga. One killed; property loss about $500; width of path about 50 yards; length about 2 miles; moved northeast.

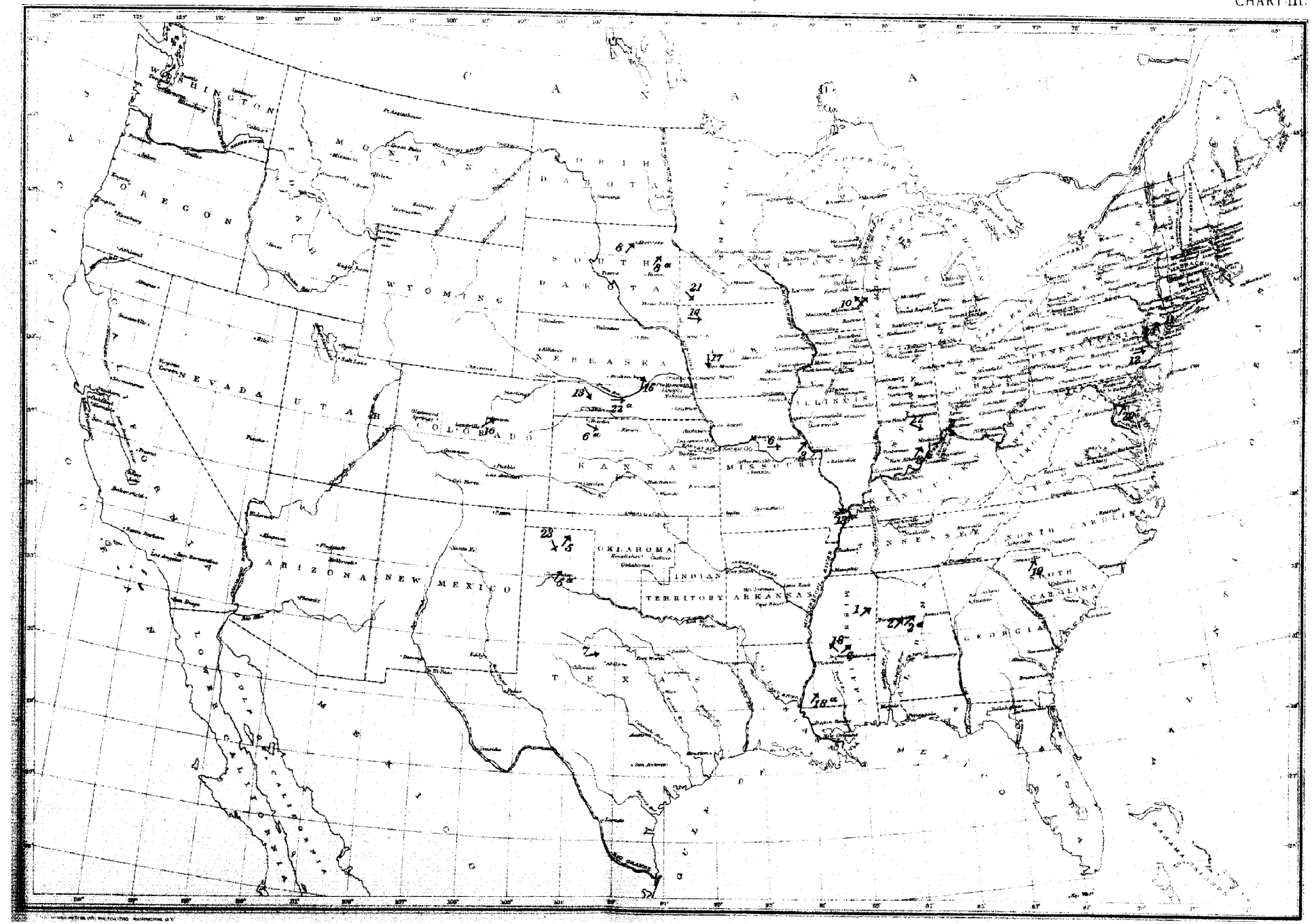
No. 27, [1] *January 12, 1890.*—About 5 p. m. (Central time); Clinton, Hickman County, Ky. Ten killed; 50 injured; property loss heavy; width of path about 300 yards; length not given; direction of movement not given.

---

[1] Added after the completion of the lists and charts.

TORNADOES, 1891.

CHART III.



1891.

No. 1, January 31.—3.30 p. m. (Central time); Palo Alto, Clay County, Miss. One killed; property loss about $10,000; width of path about 150 to 200 yards; length 4 miles; moved northeast.

No. 2, February 9.—3 p. m. (Central time); Coaling, Tuscaloosa County, Ala. A number of persons injured; property loss a few thousand dollars; width of path, 500 yards; length not known; whirl not very rapid; moved northeast.

No. 2a.—3.30 p. m. (Central time); Helena, Shelby County, Ala. No casualties; property loss about $5,000; width, 150 to 200 feet; length about 2 miles; moved northeast.

No. 3, February 24.—4.45 p. m. (Central time); Troy, Lincoln County, Mo. No casualties; property loss about $2,500; width of path 200 yards; length 6 miles; moved northeast.

No. 3a.—Midnight (Central time); Utica, Clark County, Ind. No casualties; property loss about $6,000; width of path 100 feet, length not given; moved northeast.

No. 4, March 8.—7 a. m.; Cameron, Madison County, Miss. No casualties; property loss about $5,000; width of path about 200 yards; length about 200 yards; moved northeast.

No. 5, April 15.—7 p. m. (local time); Hansford, Hansford County, Tex. Two killed and a number injured; property loss about $25,000; width of path, 1,200 feet; length about half a mile; moved northeast.

No. 5a.—7 p. m. (Central time); Claude, Armstrong County, Tex. Two killed; property loss about $300; width of path not given; length, 3 miles; moved northeast.

No. 6, May 20.—3 to 4 p. m. (Central time); Boone and Audrain counties, Mo. Towns of Sturgeon, Mexico, Rushhill, Centralia, and Laddonia. Three killed and a number injured; property loss from $50,000 to $75,000; dimensions of path not given; moved east.

No. 6a.—12.30 a. m. (local time); north of Allison, Decatur County, Kans. No casualties; property loss from $5,000 to $10,000; width and length of path unknown; funnel cloud observed; moved east-southeast.

No. 7, June 1.—About 5 p. m. (Central time); Guion, Taylor County, Tex. No casualties; property loss about $2,000; width of path not given; length about 10 miles; moved northeast.

No. 8, June 2.—3 p. m. (Central time); Watertown, Codington County, S. Dak. No casualties; property loss about $400; width of path about 10 rods; length unknown; moved northeast.

No. 8a.—2.30 p. m. (Central time); Hazel, Hamlin County, S. Dak. Three killed; 16 buildings destroyed; width of path, one-half mile; length not known; moved northeast.

No. 9, June 3.—2.30 p. m. (Central time); Covington, Kenton County, Ky. One killed; property loss about $3,500; width of path about 50 yards; length about 400 yards; funnel cloud; moved southeast.

No. 10, June 14.—3.51 p. m. (Eastern time); Milwaukee, Wis. No casualties; property loss about $4,000; width of path, 300 yards; length 2½ miles; funnel cloud; moved northeast, north, and then northwest.

No. 11, June 16.—4.50 p. m. (Eastern time); Bayonne, Hudson County, N. J. No casualties; property loss unknown; width of path about 2,000 feet; length not given; direction not given.

No. 12, June 17.—5 p. m. (Eastern time); Douglassville, Berks County, Pa. No casualties; property loss about $1,000; width of path 1½ miles; length not given; moved east.

No. 13, June 21.—7 p. m. (Central time); Wellfleet, Lincoln County, Nebr. No casualties; property loss about $2,000; width of path from 30 to 40 yards; length not given; funnel cloud; general direction southeast.

No. 13a.—About 3 p. m. (Central time); Charleston, Mississippi County, Mo. No casualties; property loss about $6,000; width of path from 300 to 500 yards; length not given; moved northeast.

No. 14, June 23.—7 p. m. (Central time); Sutherland, O'Brien County, Iowa. No casualties; property loss about $5,000; width of path about one-eighth mile; length, one-eighth mile; five funnel-shaped clouds; moved east.

No. 15, June 24.—4 to 5 p. m. (Central time); Palmer, Merrick County, Nebr. No casualties; property loss about $200; width of path, 30 to 40 feet; length not given; moved northeast.

No. 16, June 25.—2 p. m. (Mountain time); Duff (near), Arapahoe County, Colo. No casualties; property loss unknown; width and length of path not given; moved northeast.

No. 17, July 1.—Between 6 and 7 p. m. (Central time); Arcadia and Halbur, Carroll County, and Gray, Anderson County, Iowa. Several injured; property loss about $3,500; width of path variable; length not given; funnel cloud; moved south.

No. 18, July 6.—Noon (Central time); Madison Station, Madison County, Miss. One killed; property loss about $4,000; width of path about 100 yards; length 1 mile; funnel cloud; moved northwest. (?)

No. 18a.—7.30 a. m. (Central time); Gloster, Amite County, Miss. Two killed; property loss unknown; width of path one-half mile; length three-eighths mile; moved northeast.

No. 19, July 7.—2.45 p. m. (Eastern time); Prosperity (near), Newberry County, S. C. No casualties; property loss about $1,000; width and length of path not given; moved northeast.

No. 20, July 18.—4.40 p. m.; Nottingham, Prince George County, Md. No casualties; property loss about $3,000; width of path, 10 to 100 feet; length 1½ miles; moved northeast.

No. 21, August 13.—No time given; Ellsworth, Mobile County, Minn. No casualties; property loss about $15,000; width of path about 40 rods; length unknown; funnel cloud observed; moved southeast.

No. 22, August 15.—3.30 a. m. (Central time); Elizabethtown, Bartholomew County, Ind. No casualties; property loss about $3,500; width of path about 60 yards; length one-fourth mile; funnel cloud observed; moved south of east.

No. 22a.—1 a. m. (Eastern time); Kearney, Buffalo County, Nebr. One killed; property loss about $4,000; narrow paths about a mile apart in three places; too dark to see funnel; moved east.

No. 23, August 21.—4.30 p. m.; Hansford and Farwell, Hansford County, Tex. No casualties; property loss in Hansford about $700; width of path over Hansford, 150 to 200 yards; length not given; funnel cloud observed; moved southeast.

No. 24, August 23.—5.30 p. m.; Longhill, Morris County, N. J. No casualties; property loss about $2,000; width of path one-half mile; length 1 mile; funnel cloud observed; moved north.

1892.

No. 1, February 7.—3.40 p. m. (Central time); Cygnet, Ohio. No casualties; property loss about $2,500; path about 40 rods wide and 5 miles long; moved northeast.

No. 2, March 26.—1 p. m. (Central time); Cerrogordo, Ill. One injured; property loss about $5,000; width of path 150 feet, and length one-half mile; moved north.

No. 3, **March 31.**—8.30 p. m. (Central time); Trickham, Tex.; 9 p. m., Bangs, Tex. Moved northeast; property loss in Brown County about $10,000; path from 300 yards to half a mile wide and 10 miles long.

No. 3a.—9 p. m. (Central time); Santa Anna, Coleman County, Tex. One killed and 13 injured; property loss about $6,000; passed through southeast corner of the town; moved northeast.

No. 4.[1]—8.30 p. m. (Central time); Kiowa County, Kans. No casualties; property loss about $15,000; moved northeast.

No. 5.[1]—5.30 p. m. (Central time), Little River, Rice County, Kans.; 6.30 p. m. (Central time), Smolan, Saline County, Kans.; 8 p. m. (Central time), Oakhill, Clay County, Kans. General course northeast. Observer at Oakhill, however, reports the storm as moving from southeast to northwest. Two killed; property loss about $12,000; path at Little River about 450 feet wide and one-fourth of a mile long; Smolan, 1,200 feet wide and 14 miles long; Oakhill, one-fourth of a mile wide; length unknown.

No. 5a.—8 p. m. (Central time); South Haven (near), Sumner County, Kans.; 9 p. m. (Central time), 9 miles east of Wellington, Sumner County, Kans.; 9.30 p. m. (Central time), Lorena, Butler County, Kans.; 10 p. m. (Central time), 11 miles west of Eldorado, Butler County, Kans. Seventeen killed; property loss about $18,000; general course, northeast; path, South Haven, one-half mile wide and 3 miles long; Wellington, one-fourth of a mile wide and 9 miles long; Lorena, 150 feet wide, length unknown; Eldorado, 500 feet wide, length unknown.

No. 5b.—10 p. m. (Central time); Florence, Marion County, Kans.; 11 p. m. (Central time), Strong, Chase County, Kans.; midnight (Central time), Wamego and Louisville, Pottawatomie County, Kans. Eleven killed; property loss $25,000; moved north-northeast.

No. 5c.—6.15 p. m. (Central time); Nelson, Nuckolls County, Nebr.; after 6 p. m. (Central time), Edgar, Clay County, Nebr. No casualties; property loss $90,000; path half mile wide; length about 5 miles; moved northeast.

No. 5d.—7.45 p. m. (Central time); Norfolk, Madison County, Nebr. No casualties; property loss unknown; path two blocks wide, and four long; moved northeast.

No. 6, April 3.—2.30 p. m. (Central time); Liberty, Montgomery County, Kans. One killed; property loss not heavy; damage mostly in the country; path 50 feet wide; probably 14 miles long; tornado cloud also seen at Cherryvale, same county, 8 miles north-northeast; moved north-northeast.

No. 7.[1]—3.40 p. m. (Central time); Bosworth, Carroll County, Mo. No casualties; property loss about $8,000; path 600 feet wide, 3 miles long; moved northeast.

No. 7a.—9.30 p. m. (Central time); Kirksville, Adair County, Mo. No casualties; property loss about $5,000; moved northeast; storm first struck the earth on southwest corner of public square, demolished the second story of a brick building on the east side of the square, then raised and descended again about ten blocks distant, in the suburbs of the city.

No. 8, April 4.—11.30 a. m. (Central time); Lonoke County, Ark. Three injured; property loss about $2,000; moved northeast.

No. 8a.—8.30 p. m. (Central time); Sharon, Weakley County, Tenn. No casualties; property loss about $2,000; path 600 feet wide; length unknown; moved northeast.

No. 8b.—4.35 p. m. (Central time); Barnhill, Wayne County, Ill. No casualties; property loss about $10,000; path of great destruction, one-fourth mile wide; length one-half mile; moved north-northeast.

No. 8c.—2.50 p. m. (Central time); Livingston, Grant County, Wis. No casualties; damages light; path 30 to 150 feet wide; moved northeast.

No. 8d, April 5.—8.45 p. m. (Eastern time); Olean, N. Y. One killed; a number injured; property loss about $25,000; path 100 feet wide; probably 10 miles long; moved northeast.

No. 9, May 2.—7.45 p. m. (Central time); Kingfisher and Logan counties, Okla. One killed; 3 injured; property loss about $2,000; path 100 feet wide; length uncertain; moved northeast.

No. 10, May 10.—12.45 p. m. (Central time); Collierville, Tenn. (near). Four injured; property loss about $1,000; width of path 150 feet; length about 5 miles; moved northeast.

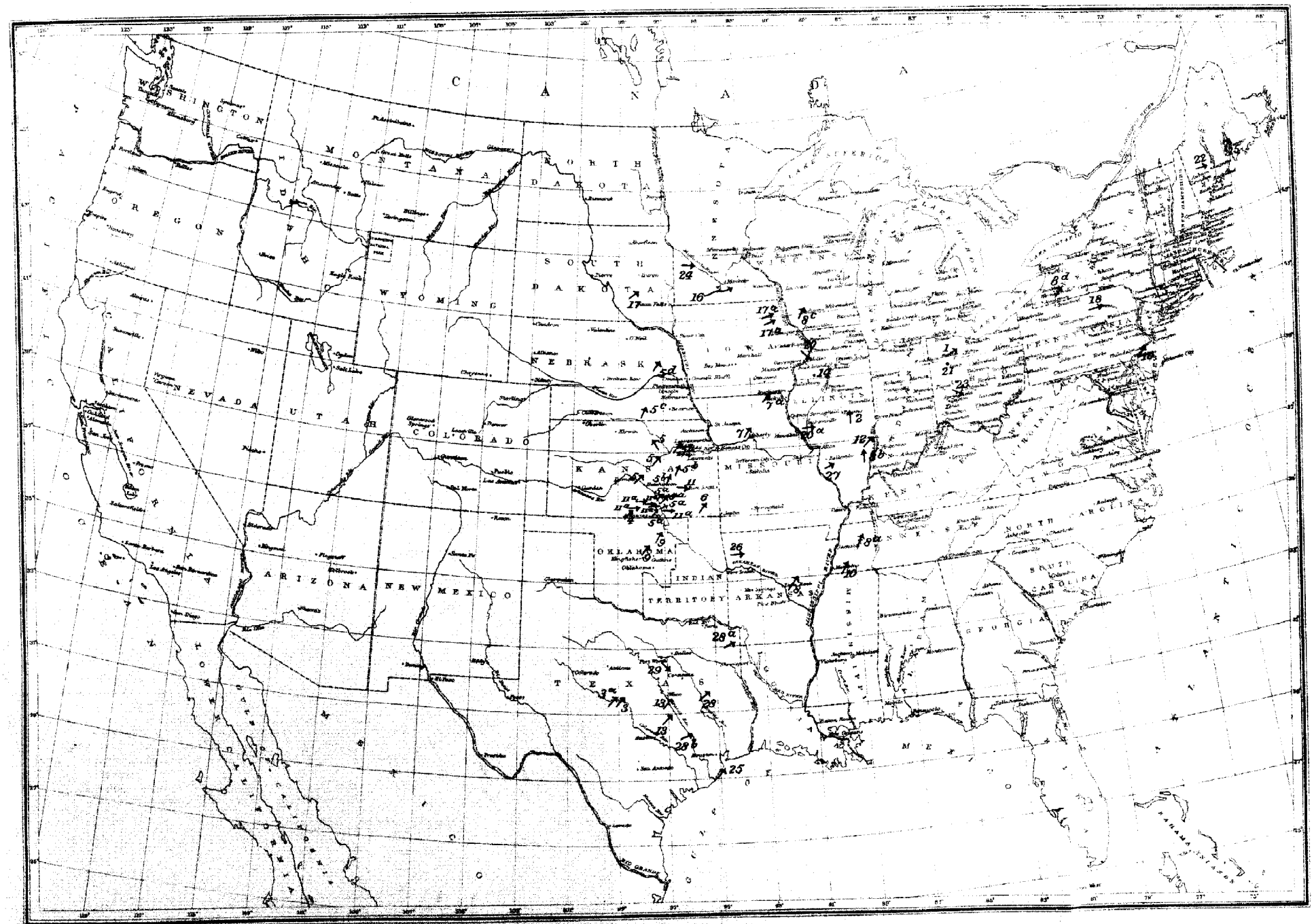
No. 11, May 13.—6.50 p. m. (Central time); Climax, Greenwood County, Kans. No casualties; property loss about $1,500; path 150 feet wide and 1 mile long; moved east.

---

[1] Given a separate number by inadvertence.

TORNADOES, 1892.

CHART IV.



No. 11a, **May 27.**—6.30 to 9 p. m.; Harper and Sumner counties, Kans. Passing towns of Attica at 6.30 p. m.; Harper at 7.40 p. m.; Argonia at 8 p. m., and Wellington at 9.30 p. m. Sixteen killed; many injured; property loss about $300,000; path variable. Over the greater part of the storm's path a heavy thunderstorm and straight winds prevailed. The greatest violence was manifested in Wellington and near Harper. At the former the path was about the width of two blocks, extending through the city but not beyond. Twenty miles east of Wellington a tornado struck the timber and also caused some damage to buildings, etc., near Kellogg, Kans.; moved east.

No. 12, May 28.—4.23 p. m. (Cehtral time); Olney, Richland County, Ill. No casualties; property loss about $4,500; path 150 to 600 feet wide; length 22 miles; moved north 70° east.

No. 13, May 31.—5.30 p. m. (Central time); Bell and Falls counties, Tex. Six killed; property loss about $15,000; path 750 feet wide and 10 miles long; moved northeast.

No. 14, **June 13.**—7.45 p. m. (Central time); Galva, Ill. One killed; 2 injured; property loss in Galva and vicinity estimated at nearly $300,000.

No. 15, June 14.—5.20 p. m. (Eastern time); Bangor, Me. Two persons drowned by upsetting of steamer; property loss in Bangor and vicinity $10,000; path 200 feet wide and about 8 miles long; moved northeast.

No. 16, **June 15.**—3 p. m. (Central time), Martin County, Minn.; 4.30 p. m. (Central time), Faribault County, Minn.; 5.30 p. m. (Central time), Freeborn County, Minn.; 6.30 p. m. (Central time), Steele County, Minn. Formed about 6 miles northwest of Sherburne, Martin County; moved eastward, increasing in intensity, passing through Faribault and Freeborn counties, and was last seen in the southeastern corner of Steele County, a distance of over 80 miles from its origin. Its path at the beginning was 100 feet wide; when last observed it was 350 feet, although it widened to half a mile in portions of its course. Ten persons were killed and from 40 to 50 injured; property loss about $100,000.

No. 17, June 22.—1.45 p. m. (Central time); Plankinton, S. Dak. No casualties; property loss about $15,000; path 1,200 feet wide; length unknown; moved northeast.

No. 17a.—5 p. m. (Central time); Chickasaw and Bremer counties, Iowa. Two killed; property loss about $50,000 in both counties; path 1,200 feet wide; length 11 miles of great destruction, 6 miles without damage; appearance of whirling in two different directions noted; moved east-northeast.

No. 18, June 27.—5.15 p. m. (Eastern time); Eagles Mere, Pa. No casualties; property loss about $7,000; path half a mile wide and 10 miles long; moved east.

No. 19, June 30.—1.15 p. m. (Eastern time); Gloucester, N. J. One killed; three injured; property loss $8,500; 250 feet wide; 900 feet long; moved northeast.

No. 20, July 2.—4.30 p. m. (Central time); near Davenport, Iowa. No casualties; property loss about $8,000; path 600 feet wide and 15 miles long; moved southeasterly, easterly, and again southeasterly.

No. 20a.—5.30 p. m. (Central time); Chapin, Morgan County, Ill. Several injured; property loss about $2,000; path 600 feet wide; length unknown; moved east.

No. 21, July 2.—Midnight (Central time); Bluffton, Ohio. No casualties; property loss about $5,000; path 200 feet wide and 4 miles long.

No. 22, July 3.—3 p. m. (Eastern time); North Buckfield, Me. No casualties; property loss about $3,000; path 160 to 330 feet; length 4 miles; moved east.

No. 23, July 13.—12.15 p. m. (local time); Springfield, Ohio. No casualties; property loss about $20,000; path two squares wide; one-fourth of a mile long; moved east 20° south.

No. 24, August 5.—2.30 a. m. (Central time); Marshall, Minn. No casualties; property loss about $3,500; path 1,200 feet wide; length 1 mile; moved east.

No. 25, November 6.—5.45 a. m. (Eastern time); Galveston Island, Tex. One killed; property loss about $3,000; path 50 to 125 feet wide; 8 miles long; moved northeast.

No. 26, November 16.—9 p. m. (Central time); Durham, Washington County, Ark. No casualties; property loss about $2,500; path 150 feet wide; one-fourth mile long; moved east.

No. 27, November 17.—3.30 a. m. (Central time); Red Bud, Randolph County, Ill. One killed; property loss about $2,000; path 300 feet wide; one-half mile long; moved east-northeast.

No. 28, December 6.—11 a. m. (Central time); Elkhart, Anderson County, Tex. Two injured; property loss small; path 600 feet wide; one-half mile long; moved northeast.

No. 28a.—12.45 p. m. (Central time); Cass County, Tex. One killed; 6 injured; property loss about $2,000; path 400 to 1,200 feet wide; 6 miles long; said to have had a whirling motion, clockwise; moved east-northeast.

No. 28b.—5.30 p. m. (Central time); Brenham, Washington County, Tex. (near). No casualties; property loss about $10,000; width of path unknown; length 10 miles; destruction confined to farmhouses and fencing; moved northeast.

No. 29, [1] *June 5.*—8 p. m. (Central time); Cleburne, Johnson County, Tex. No casualties; property loss about $8,000; dimensions of path not given; moved southeast.

---

[1] Added after completion of the lists and charts.

1893.

Tornadoes were observed in Lauderdale and Clarke counties, Miss.; Sumter and Choctaw counties, western Ala.; and Troup, Meriwether, and Pike counties, Ga., as follows:

No. 1, **March 3.**—5.50 p. m. (Central time); Marion, Lauderdale County, Miss.: Two killed; property loss estimated at $13,000 for a distance of 4 miles; width of path 900 feet; length about 25 miles; moved northeast. 6 p. m. (Central time); Toomsuba, Lauderdale County, Miss.: No casualties; path about 800 feet wide; length not reported; moved east; probably same storm as above. 6.30 p. m. (Central time); near Cuba, Sumter County, Ala.: One killed; path one-fourth to one-half mile wide; length not given.

No. 1a.—7 p. m. (Central time); Pachuta, Clarke County, Miss.: One killed; property loss from $12,000 to $15,000; path 600 feet wide, 2 miles long; no funnel observed; moved southeast. 7.30 p. m., at Ararat, Choctaw County, Ala., a storm was observed moving a fraction south of east; width of path 150 feet; length 1 mile; property loss light.

No. 1b.—This storm seemed to have its origin about 2 miles south of Lagrange, Troup County, Ga. It passed across the counties of Meriwether and Pike, and was observed at Lagrange at 8.30 p. m. and near Forsyth at 10 p. m., having covered the distance (66 miles) at a rate of 44 miles per hour. The details at points of destruction in its path are as follows: 8.30 p. m. (Central time), Greenville, Meriwether County, Ga., 1 killed; property loss $200,000; width of path one-fourth mile. Odessa, Meriwether County, Ga., 6 killed; only 3 houses left standing. 8.50 p m. (Central time), Molena, Pike County, Ga., 1 killed; property loss $7,000; path one-fourth mile wide; moved east. 9 p. m. (Central time), Piedmont, Pike County, Ga., 6 killed, about 12 injured; property loss about $8,000; width of path one-fourth mile.

No. 2, March 22.—10 p. m. (seventy-fifth meridian time), Oklahoma City, Okla., several seriously injured; property loss $15,000; path 150 feet wide, one-fourth mile long; funnel raised and lowered at intervals; moved northeast.

March 23.—On this date there were a large number of destructive local storms and tornadoes. Within a general storm covering the States of Indiana, Illinois, Kentucky, Tennessee, and Mississippi about 20 people were killed and a number were injured. The property loss in the States above named due to wind, rain, and hail was about $300,000. It is impossible to separate the damage by wind alone. The details as to tornadoes are given below:

No. 3.—3 p. m. (Central time); Vincent, Ark. No casualties; property loss about $10,000; path one-fourth to one-half mile wide, 1½ miles long; moved northeast.

No. 3a.—4 p. m. (Central time); Archibald, Richland County, La. Seven killed; property loss about $25,000; path of destruction 1 mile wide; length not reported; moved northeast.

No. 3b.—3.58 p. m. (Central time); Kelly and Olive Branch, De Soto County, Miss. Three or 4 killed; property loss about $150,000; path three-fourths mile wide; length not reported; moved northeast.

No. 3c.—3.15 a. m. (?); Shubuta (1½ miles north of), Clarke County, Miss. Three killed; loss to buildings slight; fences and timber suffered principally; dimensions of path not reported; moved northeast.

No. 3d.—4.30 p. m. (Eastern time); Renova, Bolivar County, Miss. No casualties; property loss $500; width of path unknown; length, 1 mile.

No. 3e.—5 p. m. (Central time); near Jackson, Madison County, Tenn. No casualties; loss of property not reported; path about 1,000 feet wide; length not reported; moved northeast. 5.15 p. m. (Central time); Spring Creek, Madison County (2 miles southwest of), Tenn. Probably same as above.

No. 3f.—5.30 p. m. (Central time); Dresden, Weakley County, Tenn. No casualties; loss probably several thousand dollars; width of path not given; length 2 miles; moved northeast.

No. 3g.—5.50 p. m. (Central time); Murray, Calloway County, Ky. One killed; property loss probably $30,000 in county; length of path about 5½ miles; width not given.

No. 3h.—7.15 p. m. (Central time); near Pembroke, Christian County, Ky. No casualties; property loss about $50,000 in county; width of path about 1 mile; length not reported; moved northeast.

No. 3i.—8.30 p. m. (Central time); near McCordsville, Hancock County, Ind. No casualties; loss of property within a radius of 3 miles, $10,000 or more; width of path one-fourth mile; length not given; moved northeast.

No. 4, April 7.—1.30 a. m. (Central time); near South Haven, Van Buren County, Mich. Several persons slightly injured; property loss about $10,000; width of path about one-fourth mile; length not known; moved east-northeast. 3 a. m. (Central time); Lacota, Van Buren County, Mich. Probably same as above.

No. 5, **April 11.**—4 p. m. (Central time); Holt County, Nebr. (near towns of Little, Stafford, Inman, and Page). Six injured; property loss about $5,000; path from 3 to 80 rods wide; length about 25 miles; passed over thinly settled country; moved north-northeast.

No. 5a.—5.30 p. m. (Central time); Parker, Kans. No casualties; estimated property loss $100,000; width of path 300 to 400 feet; length 10 or 12 miles.

No. 5b.—3.30 p. m. (Central time); Westfield, Plymouth County, Iowa. No casualties; property loss about $2,500; width of path 160 feet; length not reported.

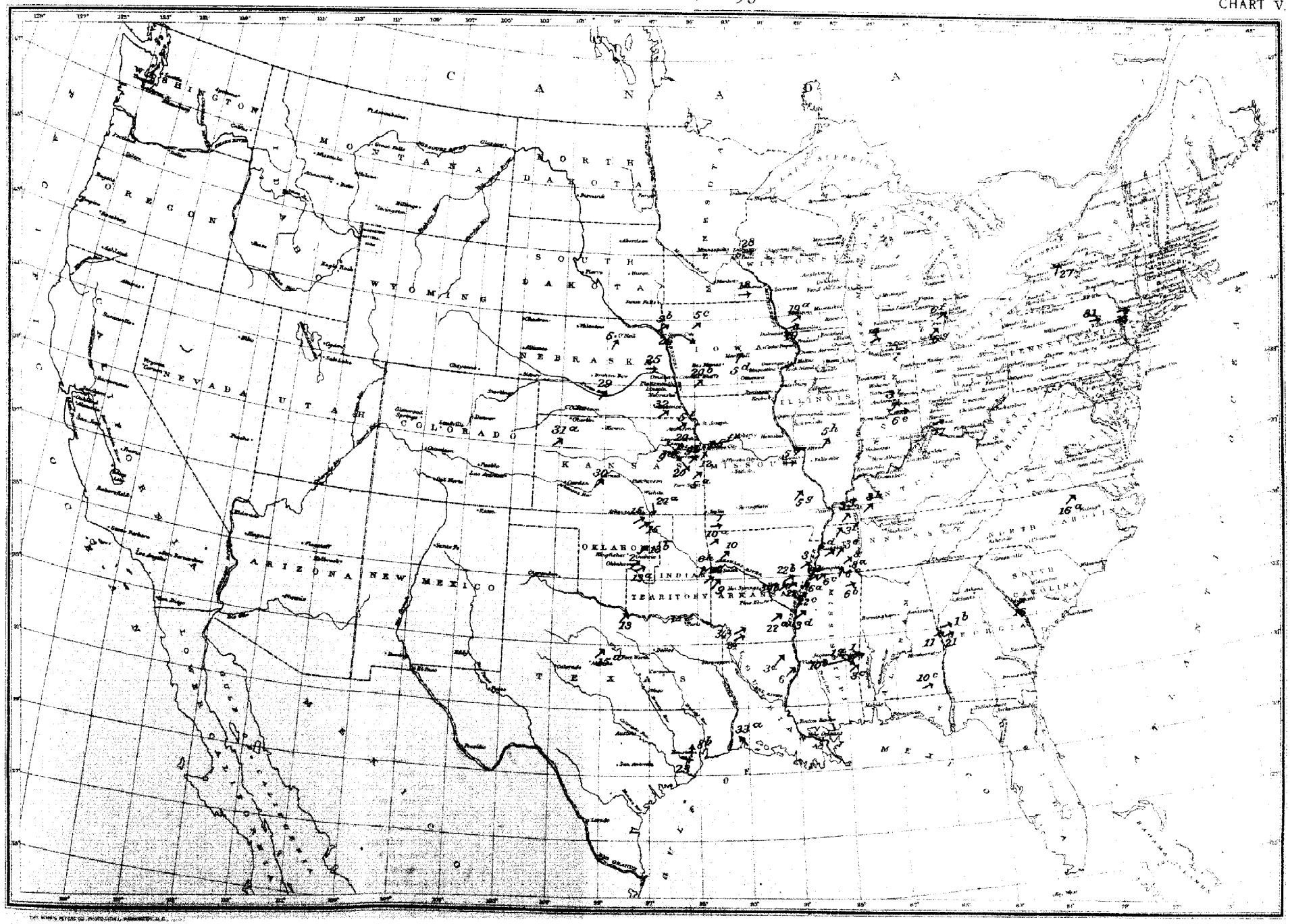
No. 5c.—6 p. m. (Central time); Fonda (3 miles east of), Pocahontas County, Iowa. One killed, a number injured; property loss about $6,000; path about 900 feet wide, 6 miles long; moved northeast.

No. 5d.—8 p. m. (Central time); Newton, Jasper County, Iowa. Several injured; property loss about $10,000; width of path about 100 yards; length not known.

No. 5e.—11.10 p. m. (Central time); Washington, Franklin County, Mo. No casualties; property loss about $5,000; dimensions not known; moved east.

TORNADOES, 1893.

CHART V.



No. 5f.—7 p. m. (Central time); Lafayette County, Mo. (near the towns of Mayview, Higginsville, and Page City, and 6 miles southeast of Lexington). Six persons killed in the county; a number injured; loss in the county, $10,000; width varied from 20 feet to one-half mile; length of path 12 miles; moved northeast, crossing the Missouri River 3 miles east of Dover.

No. 5g.—6.30 p. m. (Central time); Salem (6 miles northwest of), Dent County, Mo. Ten killed; a number injured; buildings destroyed valued at $20,000; width averaged 300 feet; length 20 miles; moved northeast.

No. 5h.—1.30 a. m. (Central time); Vandalia, Fayette County, Ill. No casualties; loss of property from $1,200 to $1,400; width of path about 600 yards; length not given; moved northeast.

No. 5i.—About 4.05 p. m. (Central time); near Everest, Brown County, Kans. One killed; several injured; property loss in Brown and Atchison counties about $5,000; dimensions of path unknown; moved northeast.

No. 6, **April 12.**—4 p. m. (Central time); near Waterproof and Newellton, Tensas County, La. One killed; 12 injured; property loss about $10,000; path of destruction 400 feet wide; length about 7 or 8 miles; moved northeast.

No. 6a.—12.33 p. m. (Eastern time); Tunica, De Soto, and Marshall counties, Miss. (towns of Robinsonville, Miller, and Lewisburg). Twelve killed at Robinsonville; property loss about $25,000; path one-half mile wide; total length probably 35 to 40 miles; moved east-northeast.

No. 6b.—12.30 a. m. (Central time); Baldwyn, Tupelo County, Miss. One killed; property loss about $15,000; path about 1 mile wide and about 6 miles long; moved east-northeast.

No. 6c.—2 p. m. (Central time); Middleton, Hardeman County, Tenn. No casualties; property loss $2,500; path 120 feet wide, 2½ miles long; moved north-northeast.

No. 6d.—4 p. m. (Central time); 4 miles south of Brownsville, Haywood County, Tenn. No casualties; property loss in county about $10,000, including timber and stock; dimensions of path not reported; probably 10 or 15 miles in length; moved northeast.

No. 6e.—9 p.m. (Central time); Hancock, Henry, and Randolph counties, Ind. (near towns of Wilkinson, Kennard, Messick, Mooreland, and Losantville). No casualties; property loss about $10,000; path varied in width from 400 to 1,200 feet; length about 25 miles; moved east-northeast.

No. 6f.—7 p. m. (Central time); Washtenaw, Wayne, Oakland, and Macomb counties, Mich. (towns of Ypsilanti, Redford, Royal Oak, Utica, and Mount Clemens). Two killed; a number injured; property loss about $170,000; path 200 to 800 feet wide; total length of great destruction not reported; moved northeast.

Probably two distinct tornadoes. The first originated near Ypsilanti about 7 p. m. (Central time); the second in Wayne County, near Beach, at about the same hour. The path of the latter was continuous over Royal Oak Township and for some distance beyond.

No. 6g.—8.10 p. m. (Central time); Rea, Monroe County, Mich. One killed; a number injured; property loss about $60,000; path 160 feet wide, probably 10 to 20 miles long; moved northeast.

No. 6h.—6.30 p. m. (Central time); Vian, Ind. T. No casualties; property loss about $1,500; path nearly a mile wide; length unknown; moved northeast.

For extent of territory covered and general violence of the storms the above record for April 11 and 12 is unparalleled.

No. 7, April 13.—12.40 a. m. (Central time); near Exeter, Barry County, Mo. Three injured; property loss about $10,000; path one-half mile wide; length unknown; moved east.

No. 8, April 14.—4 p. m. (Central time); Chester County, Tenn. A number injured; property loss $3,000; path 600 feet wide; 12 miles long; moved northeast from southwest corner of Chester County.

No. 8a.—4 p. m.; southeast of Henderson, Chester County, Tenn. (5 miles). No casualties; property loss about $5,000; width of path unknown; length 5 or 6 miles; moved northeast.

No. 8b.—8 a. m. (Central time); Houston, Harrison County, Tex. No casualties; property loss about $5,000; path 600 feet wide; length unknown; moved north and northeast. Four persons killed and a number injured during severe thunderstorms in De Soto, Terrebonne, St. Marys, and other parishes of Louisiana.

No. 9, April 18.—10 a. m. (Central time); near Boles, Scott County, Ark. No casualties; probable property loss $3,000; path one-half mile wide; length unknown; moved northeast.

No. 9a.—4.30 p. m. (Central time); Osage City, Osage County, Kans. One killed; property loss about $12,000; path one-half mile wide; length unknown (funnel and whirling motion observed); moved southeast.

No. 9b.—7.30 p. m. (Central time); Osawatomie, Miami County, Kans. No casualties; property loss $500; path 100 feet wide; length unknown; moved northeast.

No. 10, **April 19.**—Noon (local time); Flowery, Franklin County, Ark. One killed and two injured; property loss $500; passed through thinly settled district; path 600 feet wide; length probably 10 miles; moved northeast.

No. 10a.—11.30 a. m. (Central time); Prairie Grove, Washington County, Ark. No casualties; property loss about $8,000; path 200 feet wide; length (estimated) 60 miles; moved north-northeast from Evansville, same county.

No. 10b.—5 p. m. (Central time); Westville, Simpson County, Miss. Five killed; a number injured; loss to buildings $30,000 or $40,000, in addition to damage to farms and about $100,000 worth of timber. The storm moved from the western border of the county to the eastern, a distance of 30 miles; path one-half mile wide. It is quite evident that this storm passed almost due east through Smith, Jasper, and Clarke counties, and into Choctaw County, Ala., in the vicinity of Pushmataha. Little information concerning its severity was received from Smith County, but in Jasper and Clarke counties it was one of the most destructive tornadoes that ever visited the State. A funnel cloud was not observed until after the Alabama line had been reached. The width of great destruction in Clarke County was from 1 to 4 miles and the length 40 miles. The entire distance passed

over by the storm was not less than 100 miles. Five killed and many injured; property loss in Jasper and Clarke counties, dwellings and outbuildings, $100,000; stock, orchards, and timber, $125,000. The storm's path at Pushmataha, Choctaw County, Ala., was but 900 feet wide. Everything within that distance, however, was completely destroyed. Loss in county about $2,000. It rose about 3 miles northeast of Pushmataha.

No. 10c.—11 p. m. (Central time); Midland City, Dale County, Ala. One injured; estimated property loss $25,000; path 600 feet wide; length unknown; moved northeast.

No. 11, April 20.—Between 1 and 2 a. m. (Central time); Chipley, Harrison County, Ga. No casualties; property loss about $2,500; path 450 to 1,200 feet wide; length unknown; moved northeast.

No. 12, April 24.—6 p. m. (Central time); Raymore, Cass County, Mo. No casualties; property loss about $5,000; path 900 feet wide; length unknown.

No. 13, April 25.—8.45 p. m. (Seventy-fifth meridian time); Bonita (1½ miles from), Montague County, Tex. (between Bonita and St. Jo). Two killed; several injured; property loss about $5,000; path 200 to 700 feet wide; moved northeast.

No. 13a.—Norman, Cleveland County, Okla. Two tornadoes formed near this place at 5.30 p. m. and 7 p. m. (Central time), respectively. The first was in view for ten minutes, but broke up without doing much damage. The second tornado moved in a direction east by north; width, 1¼ miles; length, in county, 45 miles; loss in county estimated at $25,000; 31 killed and many injured.

No. 13b.—3.30 p. m. (local time); Logan and Payne counties, Okla. (near Langston, Cimarron, Perkins, and Ransom). Four killed; property loss, 100 buildings destroyed, of which 60 were utterly ruined—say $20,000; path 1,200 feet wide, about 20 miles long.

No. 14, April 26—12.15 a. m. (Central time); Jenson, Sebastian County, Ark. No casualties; property loss $3,000; path 200 feet wide—length unknown; moved northeast.

No. 15, **April 28**—5.30 p. m. (Central time); near Ponca, Ponca County, Okla. Five killed; property loss small; width of path one-fourth mile; length about 3 miles; moved east-northeast.

No. 15a.—9.20 p. m. (Central time); Cisco, Eastland County, Tex. Twenty-three killed; 93 injured; property loss about $280,000; path about 1,500 feet wide, 13 miles long; moved northeast.

No. 16, May 3—noon (Eastern time); Barnwell and Orangeburg counties, S. C. (town of Williston and Springfield). One killed; property loss about $13,000; path 300 to 900 feet wide; length 18 miles; moved northeast.

No. 16a.—5 p. m. (Eastern time); Granville and Vance counties, N. C. (towns of Oxford, Dabney, Greystone, and Brookston). One killed; several injured; property loss about $20,000; path 50 to 75 feet wide; length unknown; moved northeast.

No. 17, May 5.—3 p. m. (Central time); Wilmington, Clinton county, Ohio. No casualties; property loss about $50,000; path one-fourth of a mile wide; length unknown; moved east.

No. 18, May 21.—1.20 a. m. (Central time); Dexter, Mower County, Minn. No casualties; property loss about $2,200; path 20 to 80 rods wide; length unknown; moved east-northeast.

No. 19, May 22.—5 p. m. (Central time); Darlington, Lafayette County, Wis. (about 2½ miles north). Two killed; property loss not reported; path three-fourths of a mile wide; length unknown; moved northeast.

No. 19a.—5.30 p. m. (Central time); Moscow, Iowa County, Wis. Two killed; property loss $3,500; path from a few rods to one-eighth of a mile wide; length unknown; moved northeast.

May 23.—Severe thunderstorms occurred throughout Ohio, Michigan, and Kentucky. Tornadic features were reported in some cases, but the evidence was not sufficiently conclusive to class them as tornadoes.

No. 20, May 25.—5.30 p. m. (Central time); Garnett, Anderson County, Kans. One killed; property loss $1,000; path 100 feet wide; length 15 to 20 miles; destruction not continuous. Severe thunderstorms in Audrain County, Mo., same date.

No. 21, May 29.—7 a. m. (Central time); Juniper, Marion County, and Box Spring, Talbot County, Ga. Two injured; property loss about $2,000; path from 200 to 300 feet wide; length a few miles.

May 30.—Severe thunderstorms occurred in southern Arkansas, having in a few cases more or less of the characteristics of tornadoes.

No. 22, May 31.—2 p. m. (Central time); Poplar Grove, Phillips County, Ark. One killed; property loss in track of 10 miles, $7,400; path 750 feet wide, about 25 miles long; passed through La Grange, Lee County, at 3 p. m.

No. 22a.—2 p. m. (Central time); Douglas, Lincoln County, Ark. (2 miles distant). No casualties; property loss, a few houses destroyed; path 300 feet wide; length unknown; moved northeast.

No. 22b.—3 p. m. (Central time); Forrest City, St. Francis County, Ark. No casualties; but little damage; path from one-fourth to one-half mile wide; length not given; moved east.

No. 22c.—4 p. m. (Central time); Rosedale, Bolivar County, Miss. Two killed; property loss $30,000; width of path 200 feet; length not known; moved northeast.

No. 23, June 3.—Between 3 and 4 p. m. (Central time); Spanish Camp (one-half mile of), Wharton County, Tex. Two killed; property loss $700; path 150 feet wide; 4 miles long; moved east.

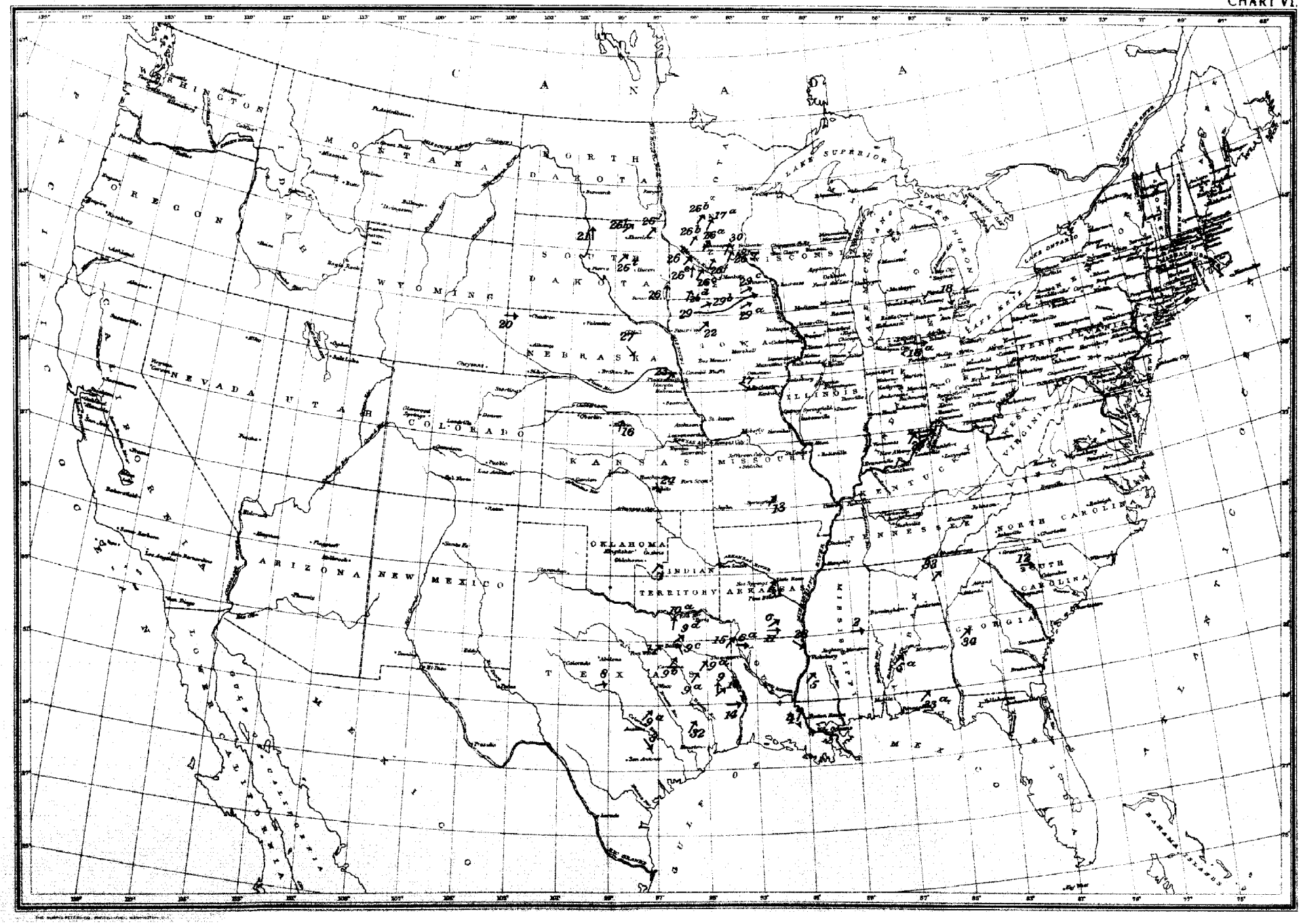
No. 24, June 21.—6.30 p. m. (Central time); Williamstown, Jefferson County, Kans. Ten killed; property loss $2,000; path 600 feet wide; 2 miles long; moved northeast.

No. 24a.—8 p. m. (Central time); Winfield, Cowley County, Kans. No casualties; property loss about $25,000; path 2 blocks wide and 1 mile long; moved south.

No. 24b.—5 p. m. (Central time); Adair (3 or 3½ miles from), Adair County, Iowa. Several injured; property loss about $6,000; path 600 to 1,200 feet wide; length not given; moved northeast.

TORNADOES, 1894.

CHART VI.



No. 25, July 5.—Between 7 and 8 p. m. (Central time); Rogers, Colfax County, Nebr. Several injured; property loss about $10,000; path 600 to 800 feet wide; length about 5 miles; moved east.

No. 26. **July 6.**—One of the most severe tornadoes that ever visited Iowa swept through the counties of Cherokee, Buena Vista, and Pocahontas in an east-southeast direction. The tornado was first seen about 2 miles north of Quimby, Cherokee County, at 4.35 p. m.; at 5.20 it was seen 3 miles south of Alta, Buena Vista County; 5.30 p. m. at Storm Lake; 6 p. m. at Newell. It reached Pomeroy at 6.30 p. m., and almost swept the town out of existence. Eighty-nine people were killed and scores injured; property loss about $250,000; path varied from 300 feet to half a mile in width.

No. 27, July 8.—Noon (Eastern time); Lyons, N. Y. No casualties; loss $2,000; path narrow; destructi n confined to one building; moved northeast.

No. 28, July 14.—3.10 p. m. (Central time); Stillwater, Washington County, Minn. Two killed; several seriously injured; property loss about $10,000; path 150 feet wide, 1 mile long; moved east northeast.

No. 29, July 15.—6.05 p. m. (Eastern time); Kearney, Buffalo County, Nebr. No casualties; property loss $10,000; path one-fourth mile wide, half mile long.

No. 30, August 10.—Time unknown; Larned (about 6 miles south), Pawnee County, Kans. Several injured; property loss about $1,000; width of path not reported; nine funnel clouds were seen; one moved northeast, one south and a little west, and one southeast. "Their points were sometimes pointed straight toward the ground, while at other times they formed an angle with it and would reach down and draw up much like an elephant's trunk."

No. 31, August 12.—3.45 p. m. (Eastern time); Nanticoke, Luzerne County, Pa. Two killed; property loss about $4,000; path 1,500 feet wide; length unknown; moved east.

No. 31a.—2 p. m. (Mountain time); Winona, Logan County, Kans. Two killed; property loss about $1,500; dimensions of path not known.

No. 32, August 15.—4.30 p. m. (Central time); Pawnee City, Pawnee County, Nebr. Several injured; property loss $4,000; path one-eighth mile wide, 4 miles long; moved northeast.

No. 33, September 7.—5.39 p. m. (Eastern time); Port Jervis, Orange County, N. Y. Several injured; property loss about $20,000; path less than one-fourth mile wide; length not known, probably not more than 1 mile.

No. 33a.—9.30 a. m. (Central time); Lockport, Lafourche County, La. Five killed; property loss about $35,000; path 180 feet wide; length about 600 feet.

No. 34, December 15.—5.15 p. m. (Eastern time); Magnolia, Columbia County, Ark. One killed; property loss about $10,000 in 10 miles; width of path not reported; moved northeast.

No. 34a.—7.30 p. m. (Central time); Camden, Ouachita County, Ark. Four killed; property loss $2,500. The greatest damage was done about 15 or 20 miles south of the city; path one-half mile wide, about 25 miles long.

No. 34b.—6 p. m. (Eastern time); Cotton Plant, Woodruff County, Ark. No casualties; property loss $1,000; width of path 180 feet; length not given; destruction not continuous; moved northeast.

1894.

No. 1, January 20.—1.45 a. m. (Central time); Oak Cliff and Dallas, Tex. No funnel, whirling motion counter clockwise; no casualties; property loss about $68,000; path one-fourth mile wide, one-half mile long; moved northeast.

No. 2, February 3.—5.15 p. m. (Central time); Oktibbeha and Lowndes counties, Miss.; towns of Starkville, Artesia, and Columbus. Several funnel clouds seen, whirling motion right to left; no casualties; property loss about $7,500; path very wide and length uncertain; whole town of Columbus included in destructive area. The destruction of property was confined principally to the unroofing of buildings. Storm reported as moving to southeast in one case and south in another. Destruction seems to have been caused by thunderstorm winds rather than tornado funnel.

No. 3, February 7.—11.10 p. m. (Central time); Rockdale, Tex. No casualties; property loss $1,600; path 40 feet wide, probably one-half mile long; moved southeast. Observer reports: "Storm seemed to drop down in one place and then disappear."

No. 4, February 8.—Between 7 and 8 p. m. (Central time); Port Hudson, East Baton Rouge County, La. One killed; property loss about $5,000; path 200 feet wide, 1½ miles long; moved northeast.

No. 5, February 11.—11 p. m. (Central time); north of Beauregard, Copiah County, Miss. Five injured; property loss about $3,000; path 90 feet wide, 3 miles long; moved northeast; no funnel seen.

No. 5a.—4 a. m. (Central time); Snowhill, Wilson County, Ala. No casualties; property loss about $1,500; path 600 feet wide, 1¾ miles long; moved northeast.

No. 6, February 17.—Time, sunset; Warren, Bradley County, Ark. One killed; property loss $600; path 1,200 feet wide; length unknown; moved northeast.

No. 6a.—5.30 p. m. (local time); near Homer, Claiborne County, La. One killed; 5 injured; property loss about $1,000; path one-fourth mile wide, 8 miles long; moved east.

No. 7, March 4.—8.30 p. m. (Central time); Shawnee, Okla. One killed; 3 injured; property loss about $2,000; path one-fourth mile wide, 15 miles long; moved east.

No. 8, March 16.—8 p. m. (Central time); near Trickham, Coleman County, Tex. Four killed (all in one house); 1 injured; property loss about $10,000; path of various widths, at place of great destruction it was 50 feet; length about 5 miles. The cloud that did the most damage moved to the east, other funnel clouds moved from south to north and from southeast to northwest. It is reported that the ground was cracked open in the tornado's path. In some cases the cracks were parallel with the course of the tornado and again they crossed it at various angles.

No. 9, March 17.—1.30 p. m. (Central time); Lufkin, Angelina County, Tex. No casualties; path, extreme width, 1 mile; length, about 25 miles; damage to timber only; moved northeast.

No. 9a.—4 p. m. (Central time); Bartlett, Williamson County, Tex.; 11 p. m., Jacksonville, Cherokee County, Tex.; 1 a. m., 18th., Longview, Gregg County, Tex; 1.30 a. m., 18th, Lansing, Harrison County, Tex. General course northeast; funnel; 8 killed; 18 injured; property loss about $5,000. From Bartlett, where the storm was first observed, to Lansing is about 210 miles. It is not assumed that the storm passed over the entire distance as a perfectly organized tornado. It seems reasonable, however, to infer that the tornado formation prevailed for a short time and then broke up, forming again farther eastward but in the general course of the larger disturbance in which it was moving.

No. 9b.—6.30 p. m. (Central time); near Rice, Navarro County, Tex. No casualties; property loss about $2,000; path 1,000 feet wide, about 3 miles long; moved northeast; hailstones weighing 11 ounces were picked up.

No. 9c.—7.30 p. m. (Central time); Emory, Rains County, Tex. Four killed; property loss $15,000; path 900 feet wide, 13 miles long; moved northwest; funnel; whirl, counter clockwise.

No. 9d.—About 8 p. m. (Central time); Celeste, Hunt County, Tex. One killed; property loss about $700; path 225 feet wide, 5 miles long; moved northeast. Celeste is about 40 miles northwest of Emory. The tornado at the latter place was reported as moving in a northwesterly direction. There is no direct evidence, however, connecting the two storms.

No. 10, March 19.—7 a. m. (Central time); Angelina and Nacogdoches counties, Tex. (near towns of Lufkin and Nacogdoches). No casualties; property loss about $5,000; path 150 to 600 feet wide; length 10 miles or more; moved north.

No. 10a.—8 p. m. (Central time); near Leonard, Fannin County, Tex. One killed; property loss $300 (1 house); path very short. Tornado struck the earth and soon raised; moved northeast.

No. 11, April 9.—1.30 p. m. (Central time); Lanark, Bradley County, Ark. Several injured; property loss about $8,000; path one-half mile wide; length 7 miles; moved east.

No. 12, April 10—12.30 p. m. (local time); Newberry, Lexington County, S. C. No casualties; property loss $500; path 40 to 50 feet wide; length about 10 miles; moved northeast.

No. 13, April 13.—4 p. m. (local time); near Summerville, Texas County, Mo. Three killed; many injured; property loss about $1,500; width of path unknown; length 10 or 12 miles; moved northeast.

No. 14, April 25.—7 p. m. (Central time); near Burkville, Newton County, Tex. No casualties; property loss about $2,000; path 600 feet wide, 3 miles long; moved east.

No. 15, April 30.—4.10 p. m. (Central time); Park, Bowie County, Tex. Two killed; property loss $10,000; path 900 feet wide, one-half mile long; moved northeast.

No 16, May 2.—5.45 p. m. (local time); Esbon, Jewell County, Kans. One injured; property loss about $4,000; path about 1 mile wide, 7 miles long; moved north-northeast.

No. 17, May 5.—Between 5 and 6 p. m. (Central time); Appanoose and Davis counties, Iowa (near Iconium, Moravia, Unionville, and Bloomfield, through the little hamlet of Ray). One killed; property loss about $30,000; path very narrow at beginning, about one-fourth mile wide at point of disappearance; 30 miles long; moved east-southeast. This storm originated near Iconium and was last seen at Bloomfield, Davis County, about 30 miles east-southeast of Iconium. It was very severe, but fortunately passed through no towns in its course.

No. 17a.—3 p. m. (Central time); Millelacs County, Minn. No casualties; property loss confined to timber only; path 80 feet wide, 10 miles long; moved northeast.

No. 18, May 17.—4 p. m. (local time); near Emmett, St. Clair County, Mich. No casualties; property loss about $1,000; path narrow and about 3 miles long; moved south.

No. 18a.—4.30 p. m. (Central time); Williams County, Ohio. Four killed; a number injured; property loss about $50,000; path 1,200 feet wide, 6 miles long; moved east. The tornado formed about 3 miles northwest of Montpelier and traveled due east parallel with a hailstorm about 3 miles farther south. Hailstones 5 inches in diameter were picked up after the storm. The tornado cloud lifted about a mile east of Kunkle; the damage thereafter was slight.

No. 19, June 3.—10 a. m. (local time); Long Creek, Grant County, Oreg. Several killed; many injured; 30 buildings damaged; moved north-northeast; a genuine tornado. (Not charted.)

No. 20, June 17.—6.30 p. m. (Mountain time); near Harrison, Sioux County, Nebr. No casualties; property loss small; traveled through sparsely settled country; path 300 feet wide, 5 miles long; moved east.

No. 21, June 19.—6.30 p. m. (Central time); 12 miles northwest of Bowdle, S. Dak. Three killed; 8 injured; property loss about $5,000; path one-fourth mile wide, 13 miles long; moved north.

No. 22, June 20.—8.45 p. m. (Central time); Eagle Grove and Clarion, Wright County, Iowa. No casualties; property loss about $9,000; path 300 feet wide; length 1 mile; moved northeast.

No. 23, June 23.—6.30 p. m. (Central time); Irvington, Douglas County, Nebr. No casualties; property loss about $1,600; path varying from 1 to 5 rods wide; length one-half mile; moved northeast.

No. 24, June 25.—5 p. m. (Central time); Cedar Point, Chase County, Kans. No casualties. It is estimated that 20 lives were saved by taking refuge in cellars. Property loss about $5,000; path 1 mile wide and 4 miles long; damage in spots, although there was as great destruction on the margin as at the center. Funnel cloud plainly seen; storm moved southeast; whirl, counter clockwise.

No. 25. June 26.—2 p. m. (Central time); Madison, Jefferson County, Ind. No casualties; property loss $2,500; path narrow; length 600 yards; moved northeast.

No. 26, **June 27.**—5 p. m. (Central time); Pipestone County, Minn. (towns of Jasper, Pipestone, and Holland). Two killed and several injured; property loss $10,000; path from 300 to 500 feet wide; about 12 miles long; moved north-northeast.

No. 26a.—Had its origin near Echo, Yellow Medicine County, Minn., about 5. p. m.; passed northeast to Renville, Renville County, by 5.45 p. m.; next reported about 9 o'clock near Cosmos and Cedar Mills, Meeker County; passed through the entire length of Meeker County, 30 miles, and from Echo to Renville, 15 miles. Four killed; property loss $15,000; path 200 to 300 feet wide; length about 45 miles.

No. 26b.—6.30 p. m. (Central time); had its origin near Willmar, Kandiyohi County, Minn., at 5.30 p. m.; many small funnels observed; great destruction was next reported near Coldspring, about 30 miles northeast; at the same moment a violent tornado struck St. Johns College (Collegeville), 8 or 10 miles northeast of Coldspring; no casualties; property loss $50,000 to $75,000; path of storm at Willmar almost one-half mile wide; length unknown; Coldspring, almost one-half mile wide, 20 miles long; Collegeville, one-fourth mile wide; length 5 to 7 miles; moved northeast.

No. 26c.—6 p. m. (Central time); Murray, Cottonwood, and Brown counties, Minn. (towns of Fulda, Limecreek, Selma, and Sleepyeye). One killed; 5 injured; property loss about $10,000 in the three counties; path not continuous; width where it touched the earth, 100 feet; length of great destruction not less than 12 miles; moved northeast; reached Sleepyeye at 7.30 p. m.

No. 26d.—7.20 p. m. (Central time); Windom, Cottonwood County, Minn. No casualties; property loss $3,000; path very narrow; length unknown; moved northeast.

No. 26e.—6 p. m. (Central time); Fairfax, Renville County, Minn. No casualties; but little damage; moved northeast.

No. 26f.—9 p. m. (Central time); Glencoe, McLeod County, Minn. Two killed; property loss about $5,000; width of path unknown; length about 7 miles; moved northeast.

No. 26g.—10 p. m. (Eastern time); near Minneapolis, Minn. Four injured; property loss about $10,000; path 100 feet wide; length probably 1 mile; moved northeast.

No. 26h.—4.30 p. m. (Central time); Bath, Brown County, S. Dak. No casualties; property loss about $3,000; path very narrow; three funnels were seen; one moved to northeast, one east, and the other southeast; general direction of storm, east.

No. 26i.—4.30 p. m. (Central time); Hitchcock, Beadle County, S. Dak. One killed; property loss about $2,500; path narrow; a great many funnel clouds observed; moved east-northeast; whirling, said to be clockwise.

No. 26j.—5 p. m. (Central time); Sisseton Agency, S. Dak. Two killed; property loss about $10,000; path 350 feet wide; length said to be 40 miles; moved northeast.

No. 27, June 30.—Near Petersburg, Boone County, Nebr. No casualties; property loss $300; path 40 feet wide, 6 miles long; moved southeast; whirl from left to right.

No. 28, July 1.—8.30 p. m. (Central time); Greenville, Miss. One killed; property loss, $5,300; path two blocks wide, 2 miles long; moved east of south; funnel cloud observed.

No. 29, **September 21.**—7.30 p. m. (Central time). Had its origin in Clay County, Iowa. One of the most violent and destructive tornadoes of modern times. Great destruction was first noted 3½ miles southwest of Ruthven, Palo Alto County. At Emmettsburg, 10 miles east of Ruthven, the storm was observed moving east-northeast. About a mile east of Emmettsburg the storm changed its course and moved directly southeast for 3 miles, then changed its course to due northeast, passing within 80 rods of the little town of Cylinder. It then continued to move northeast for about a mile and changed again to a course a little north of east. The next report received places the storm 18 miles east of Cylinder, 6 miles south of Burt, and 3 miles north of Algona. The observer at Wesley, 12 miles east of Algona, reports two tornado paths, one 2½ miles, the other 8 miles north. A report from Britt, Hancock County, places it 4 miles north of there at about 8.30 p. m.; path three-fourths of a mile wide. The storm passed over Hayfield about 5 miles northeast of Britt at 9 p. m. without doing any material damage. The town of Fertile, Worth County, was struck at about 9.30 p. m. Manley, about 10 miles east-northeast of Fertile, reports the tornado at the same hour (9.30). St. Ansgar, Mitchell County, about 15 miles northeast of Manley, was reached about 10 p. m. Leroy, Minn., nearly 20 miles northeast of St. Ansgar, was reached at 10.30 p. m. Greenleafton, about 15 miles farther northeast, was reached about 11 p. m. The further course of the storm can not be traced. The average rate of progression over the distance thus far traced, 150 miles, was 43 miles per hour. There is, of course, no positive evidence that the same funnel cloud passed over the entire distance. It is preferred to believe that one or more separate and distinct funnel clouds formed in the general course of the storm.

No. 29a.—It is also possible to trace a second storm from a point in Mitchell County to Lowther, Howard County, about 18 miles.

No. 29b.—A third storm was also reported as passing 4 miles north of Thompson, Winnebago County, at 9.30 p. m. (Central time). No further intelligence of this storm in Iowa was received.

No. 29c.—A fourth storm, directly in the path of the Winnebago track and 70 miles east-northeast, struck Spring Valley, Fillmore County, Minn. Homer, Winona County, 60 miles east-northeast, was also reported as having been visited by the same storm, but this is scarcely probable unless it is assumed that the storm had a velocity of 72 miles per hour after leaving Spring Valley. The storm that struck Homer was much less violent than the Spring Valley storm. Fifty-three persons were killed and probably twice that number severely injured at different points along the various storm tracks. The property loss was about $300,000. The path of the main storm varied in width from 3 rods to a mile; its length has already been given.

No. 30, September 22.—1.13 p. m. (Central time); Richland Center, Hennepin County, Minn. No casualties; property loss about $4,000; path 350 feet wide, 4 miles long; moved northeast.

No. 31, October 2.—8.28 p. m. (Eastern time); Little Rock, Ark. Four killed; property loss $500,000; path 450 to 600 feet wide; length 3 miles; moved northeast.

No. 32, November 1.—9.15 p. m. (Central time); Montgomery County, Tex. No casualties; property loss considerable; path one-half mile wide in places; total length of storm, 25 miles.

No. 33, December 10.—6.10 a. m. (Central time); Kingston, Bartow County, Ga. Ten injured; property loss about $2,000; path 600 feet wide; length one-half to three-fourths mile; moved northeast.

No. 33a.—10 a. m. (Central time); Westville, Holmes County, Fla. A number injured; property loss $2,000; path 450 feet wide, 12 miles long; moved northeast.

No. 34, December 12.—3.30 p. m. (Eastern time); Reynolds, Taylor County, Ga. No casualties; property loss $1,000; path 300 feet wide; length one-half mile; moved northeast.

1895.

No. 1, January 15.—2 p. m.; Gretna, Jefferson County, La. No casualties; property loss light; path 100 feet wide, 1 mile long.

No. 1a.—8.30 p. m.; near Mobile, Ala. No casualties; property loss from $15,000 to $20,000; path about 150 yards wide and from 4 to 5 miles long; moved northeast.

No. 2, January 21.—5 a. m.; Greenway, Clay County, Ark. Eleven injured; property loss about $1,000; path about 75 feet wide and 300 feet long; moved northeast.

No. 2a.—6 a. m.; Covington, Tipton County, Tenn. No casualties; property loss about $5,000; path 100 to 300 yards wide; moved east.

No. 3, March 13.—10 a. m.; Pronto, Pike County, Ala. No casualties; property loss about $100; length of path about 50 yards; moved northeast.

No. 3a.—10 a. m.; Lindsey, Barbour County, Ala. No casualties; property loss about $10,000; path one-fourth mile wide and 15 miles long; moved northeast.

No. 3b.—10 a. m.; Clayton, Barbour County, Ala. Same as No. 3*a*. Estimated loss of property, $3,000.

No. 4, March 20.—5.30 a. m.; Columbus, Muscogee County, Ga. No casualties; property loss about $2,000; path 100 feet wide; moved southeast.

No. 4a.—9 a. m.; Augusta, Ga. No casualties; property loss about $15,000; path 150 feet wide, 3½ miles long; moved northeast.

No. 5, April 15.—About 7 p. m.; Cherokee, Crawford County, Kans. One killed; 1 injured; property loss about $10,000; path 100 feet wide, 2 miles long; moved northeast.

No. 6, April 24.—4.30 p. m.; Benton, Atascosa County, Tex. Fifteen injured; property loss $15,000; path about 3 miles long; moved southeast.

No. 7, May 1.—4.30 p. m.; near Halstead, Harvey County, Kans. Eight killed; property loss (estimated) $70,000; path of various widths, probably three-fourths of a mile wide, about 22 miles long; moved northeast.

No. 8, May 2.—About 3.20 p. m.; Humbird, Clark County, Wis. Three injured; property loss $100; path 50 to 75 feet wide, 300 feet long; moved generally northeast.

No. 9, May 3.—3 to 4 p. m.; Tyndall, S. Dak. No casualties; property loss about $10,000; path 40 to 100 rods wide, 17 miles long; moved northeast.

No. 9a.—3.45 p. m.; Ashton, S. Dak. No casualties; loss in city $3,000 to $4,000; loss in county unknown; path 20 rods wide, 2 miles long; moved generally northeast.

No. 9b.—3 p. m.; Sioux Falls, S. Dak. (near). No casualties; property loss about $10,000; path about 500 feet wide; moved east of north.

No. 9c.—4.20 p. m.; Redfield, S. Dak. No casualties; property loss from $2,500 to $3,000; path not given; moved northeast.

The storms in Iowa on the same date were probably a continuation of those in South Dakota given above.

No. 9d.—3.30 to 4 p. m.; Sioux, Lyon, and Osceola counties, Iowa. Ten killed; 40 injured; loss $60,000; path from about one-half to 3 miles wide; length of great destruction about 20 miles; total length about 50 miles. This was a very destructive tornado, with an unusually wide path of great violence. It struck the earth about 3 miles northeast of Ireton, Sioux County, and completely destroyed almost everything in its path for 15 miles, the track of great destruction contracting to less than one-half mile in the last part of its course. Three miles northeast of Hull, Sioux County, and 5 miles southeast of Sibley, Osceola County, the destruction was also very great. It moved in a general north-northeasterly course, at times having an S-shaped track, and passed into Minnesota with diminishing power.

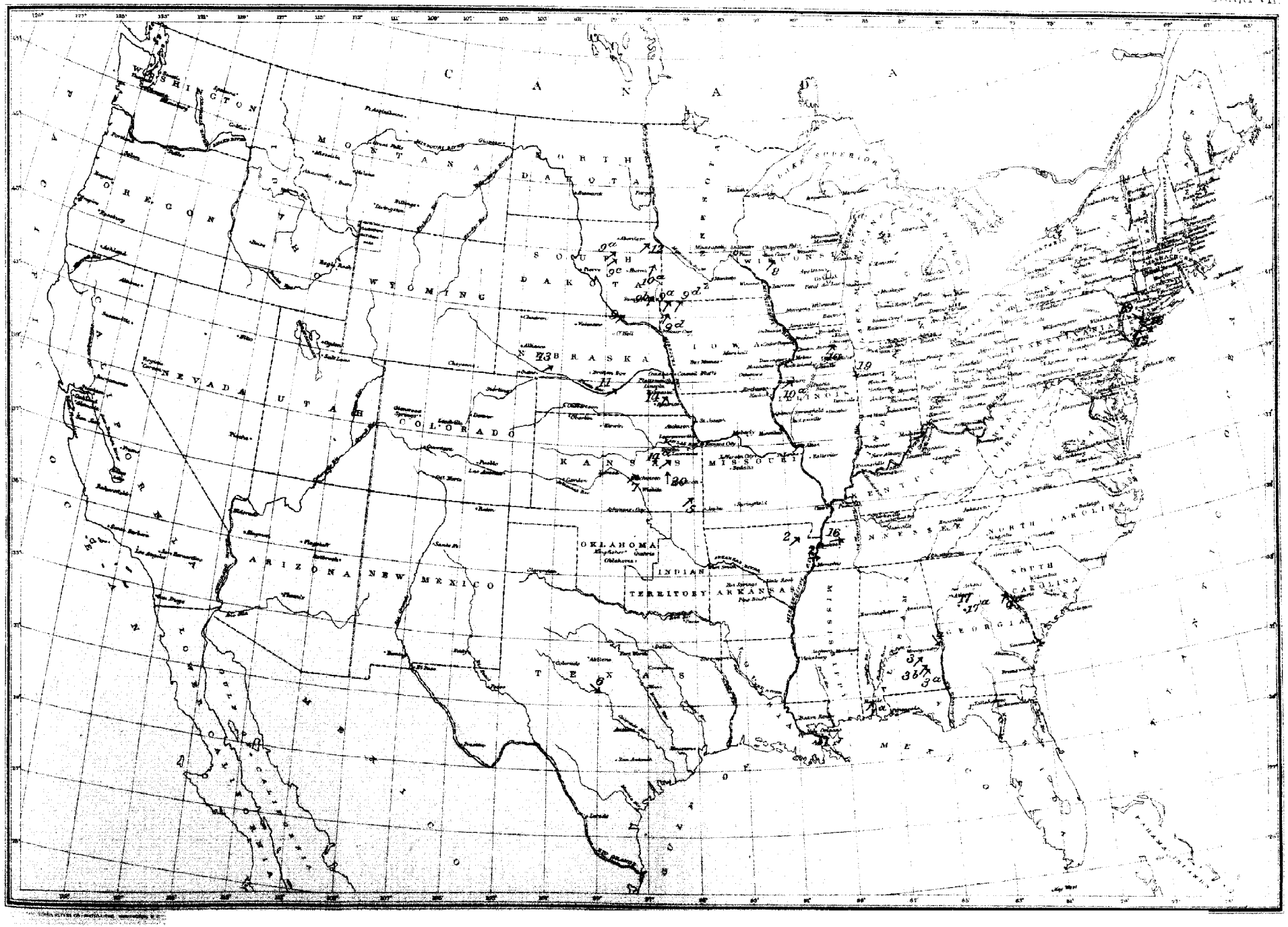
No. 10, 10a, May 4.—Incipient tornadoes were observed at St. Charles, Kane County, Ill., at 1.05 p. m. and Abingdon, Knox County, 4.30 p. m. Four lives were lost at St. Charles, the destruction being confined to a single stone building; the property loss at both places was about $12,000. Moved northeast.

No. 11, June 3.—7.15 p. m. (Central time); near Waco, Nebr. No casualties; loss about $3,000; path varied from a few feet to 500 feet; length about 16 miles; passed through a thickly settled district; moved northeast.

No. 12, June 6.—7 p. m. (Central time); near Summit, Roberts County, S. Dak. One killed; property loss about $3,000; dimensions of path unknown; moved northeast.

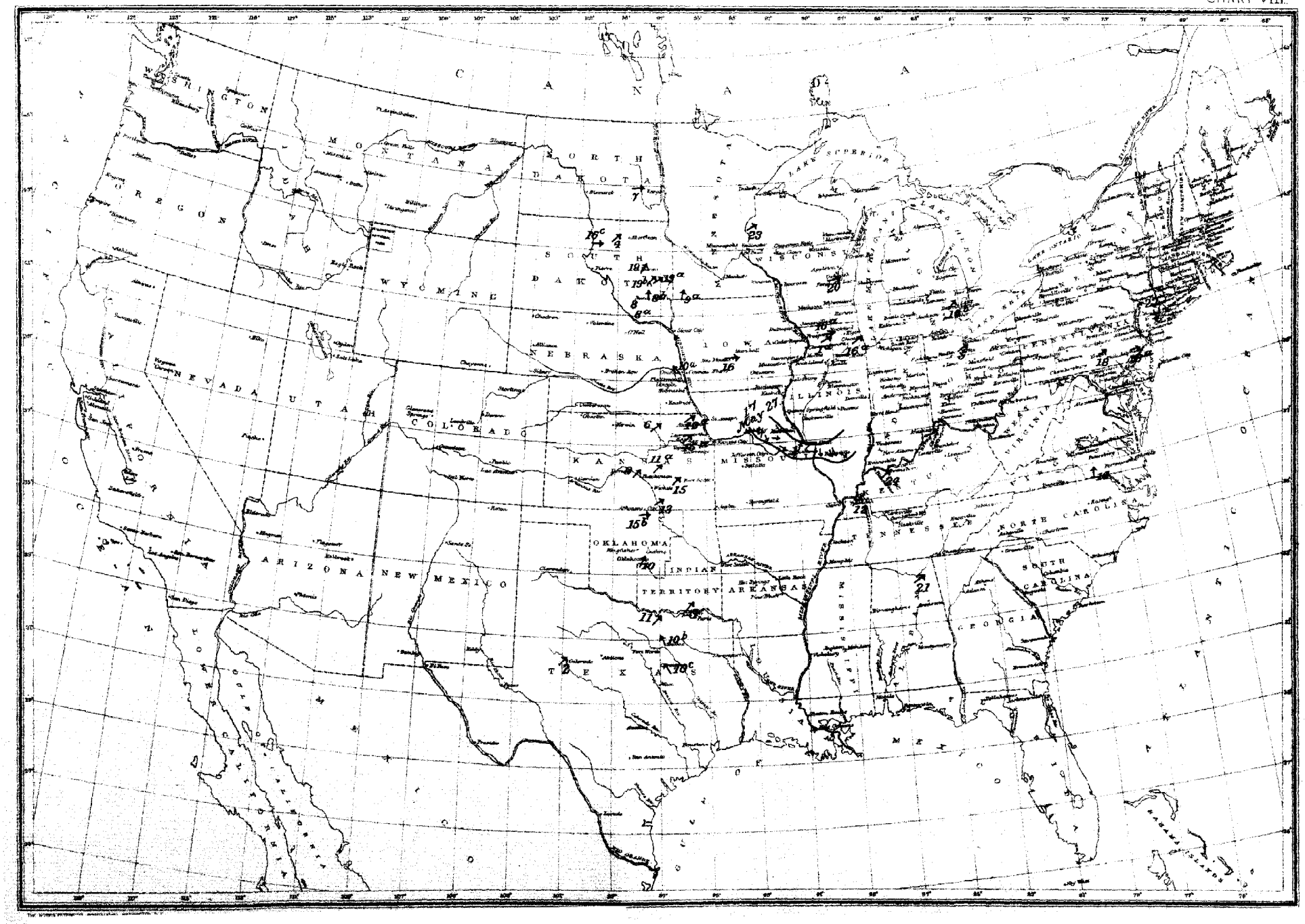
TORNADOES, 1895.

CHART VII.



TORNADOES, TO INCLUDE JUNE, 1896.

CHART VIII.



No. 13, June 16.—4 p. m. (Mountain time); Sutherland, Lincoln County, Nebr. One killed; property loss about $2,000; path 250 feet wide, length 1 mile; moved northeast. A reporter at Wallace, about 25 miles south of Sutherland, stated a tornado cloud moved to the southeast of his station.

No. 14, June 17.—2.30 p. m. (Central time); Stella, Richardson County, Nebr. (4 miles southwest). No casualties; property loss about $1,000; path 400 feet wide, 1 mile long; moved northeast and east.

No. 14a.—5.30 p. m. (Central time); Hartford, Lyon County, Kans. No casualties; property loss about $15,000; path 120 feet wide, three-fourths of a mile long; moved northeast.

No. 15, June 24.—5 p. m. (Central time); Hightstown, N. J. No casualties and very little destruction of property; moved northeast.

No. 16, July 6.—8.30 p. m. (Central time); Idlewild, Gibson County, Tenn. No casualties; property loss about $1,000; path 200 yards wide, length unknown; moved east.

No. 17, July 7.—3.30 p. m. (Central time) Morgan County, 4 p. m. (Central time) Putnam County, Ga. One killed; 3 injured; property loss about $5,000; path 150 to 750 feet wide; length over which there was great destruction was about 12 miles.

No. 18, July 13.—3.25 p. m.; East Cherry Hill, N. J., and Woodhaven, Long Island. Five killed; property loss about $70,000; path 200 to 1,000 feet; length three-fourths of a mile; moved southeast; storm lifted at intervals.

No. 19, August 11.—2 p. m. (Central time); Rensselaer, Jasper County, Ind. No casualties; property loss about $12,000; path one-half mile wide, 1 mile long; moved southeast.

No. 20, September 8.—3 p. m. (Central time); Coffey County, Kans. None killed; a number injured; property loss about $25,000; path unknown; length about 12 miles; moved south.

1896.[1]

No 1, March 28.—3 p. m. (Central time); Westalton, St. Charles County, Mo. No casualties; loss slight; width 600 feet; length not given; moved northeast.

No. 1a.—3.40 p. m. (Central time); Oregon, Ogle County, Ill. No casualties; width 990 feet; length unknown; loss $8,000; moved northeast.

No. 2, April 11.—10 p. m. (Central time); Colorado, Mitchell County, Tex. One killed; loss, $2,500; width 300 feet, length 330 feet; moved northeast.

No. 3, April 12.—5 a. m. (Central time); Cale, Choctaw Nation, Indian Territory. No casualties; loss $500; width 300 feet; length not given; moved northeast.

No. 4, April 15.—3 a. m. (Central time); Faulk County, S. Dak. (towns of Burkmere, Millard, and Cressbard). Two killed; 2 injured; loss about $5,000; width from 1 to 3 miles; length about 10 miles; moved northeast. (Probably a severe thunderstorm.)

No. 5, **April 20.**—2.15 p. m. (Central time); Fremont (4 miles northwest of), Sandusky County, Ohio. Three killed; 20 injured; loss in county $100,000; width about one-half mile, length 6 miles; moved east.

No. 6, April 25.—Between 9 and 9.30 p. m. (Central time); Cloud, Clay, and southern edge of Washington counties, Kans. Eight killed; 20 injured; loss $15,000; width one-half mile; length 20 miles; moved east and then northeast.

No. 7, April 26.—4.30 p. m. (Central time); between Valley City and Sanborn, Barnes County, N. Dak. One injured; loss small; width 600 feet; length 12 miles; moved east.

No. 8, April 27.—Between 6 and 7 p. m. (Central time); Epiphany, Hanson County, S. Dak. Several injured; loss $10,000 in county; width one-fourth mile; length about 15 miles; moved north.

No. 8a.—6.30 p. m. (Eastern time). Spencer (6 miles east of), McCook County, S. Dak. No casualties; loss $5,000; width not given; length 8 or 10 miles; moved northwest.

No. 8b.—7 p. m. (Central time); Vilas (one-half mile west of), Minnesota County, S. Dak. One injured; loss $2,500; width 660 feet; length about 10 miles; moved north.

No. 9, May 11.—6 p. m. (Central time); Rice County Kans. (near the towns of Sterling and Wherry). No casualties; property loss small; width 900 feet; length 6 miles; moved northeast.

No. 9a.—8 p. m. (Central time); Worthington, Nobles County, Minn. No casualties; loss $2,000; width 300 feet; length one-half mile; moved north, slightly east.

No. 10, May 12.—4.30 to 5 p. m. (seventy-fifth meridian); Oklahoma City (one-half mile northwest of), Oklahoma County, Okla. No casualties; loss $300; width not given; length 6 miles; moved northeast.

No. 10a.—In the afternoon; Elkhorn (near), Douglas County, Nebr. No casualties; property loss not given (small); width 600 to 900 feet; length 2 miles; moved northwest. (An overgrown whirlwind.)

No. 10b.—5 p. m. (Central time); Lawrence (near), Dallas County, Tex. No casualties; loss $1,000; width 1,200 feet; length one-half mile; moved northwest.

No. 10c.—Between 6 and 7 p. m. (Central time); Navarro County (near Mestens and Frost), Tex. No casualties; loss $2,500; width 450 to 1,200 feet; length 1 mile; moved southeast. (Several storms in the locality; only one had a funnel cloud.)

No. 11, **May 15.**—2.20 p. m., 3 p. m., and 4.45 p. m. (Central time), respectively; Denton and Grayson counties, Tex. (towns of Justin, Gribble Springs, and Sherman). Seventy-eight killed; 150 injured; loss $165,000; width from 180 to 1,200 feet; length in all, about 45 miles; moved in a general northeasterly direction.

---

[1] To June 30 only.

No. 11a.—4 a. m. (Central time); Mound Ridge, McPherson County, Kans. One killed; 1 injured; property loss about $1,000; width 300 feet; length 8 miles; moved southeast.

No. 12, **May 17.**—12.45 a. m. (Central time); Graves and Marshall counties, Ky. (towns of Sympsonia and Elva). Five killed; loss about $5,000; width from 100 to 300 feet; length at Elva, 12 miles; moved northeast.

No. 12a.—4.30 p. m. to 8.30 p. m. (Central time); northeastern Kansas and southeastern Nebraska, through the counties of Washington, Marshall, Nemaha, Brown, Kans., and Pawnee and Richardson, Nebr., near or through the towns of Barnes, Irving, Frankfort, Baileyville, Seneca, Oneida, Sabetha, and Reserve, Kans., and Pawnee City and Falls City, Nebr. Twenty-five killed; 73 injured; loss $300,000; width varied from 450 feet to 1½ miles; length in an air line about 90 miles; moved southeast, and then northeast.

No. 13, May 19.—4 p. m. (Central time); Rock Post-Office, Cowley County, Kans. No casualties; loss $3,000; width from 300 feet to one-half mile; length 2 miles; moved northeast by east.

No. 14, May 20.—4.30 p. m. (Central time); South Hill, Mecklenburg County, Va. No casualties; loss $2,000; width 50 feet; length not given; moved north.

May 20.—Tornado clouds were observed in three different sections of Kansas, viz:

No. 15.—8 p. m. (Central time); Emporia (3 miles south of), Lyons County. Two injured; loss about $500; width 20 feet; length not known; moved northeast.

No. 15a.—Between 4 and 5 p. m. (Central time); Topeka (15 miles north of). One injured; loss $2,500; width 100 feet; length about 6 miles; moved northeast.

No. 15b.—11 a. m. (Central time); Arkansas City (7 miles south of). No casualties; loss about $200; width varied from 20 to several hundred feet; length about 5 miles; moved northeast.

No. 16, **May 25.**—Polk and Jasper counties, Iowa (through or near the towns of): 9.30 p. m. (Central time), Polk City; 10 p. m. (Central time), Ankeny; 10.30 p. m. (Central time), Bondurant; between 10.30 and 11 p. m. (Central time), Santiago; 10.40 p. m. (Central time), Valeria. Nineteen killed; loss $75,000; width from 495 feet to one-half mile; length 40 miles; moved southeast to Bondurant, and then northeast.

No. 16a.—1 a. m. (Central time); the storm was general throughout northern Illinois, but assumed the character of a tornado in the counties of Ogle, Lee, Winnebago, Boone, and Cook only. Eight killed; others injured; loss of property $95,000; path variable in length and width; moved east.

No. 16b.—Between 6 and 7 p. m. (Central time); Oakland, Lapeer, and Macomb counties, eastern Michigan (towns of Groveland, Ortonville, Thomas, Oakwood, Mount Clemens, and other small towns). Forty-seven killed; over 100 injured; property loss $400,000; width of path about one-half mile; length 15 miles; moved east.

One of the most destructive tornadoes that ever visited Michigan.

No. 16c.—5.30 p. m. (Central time); Bangor (3 miles northwest of), Walworth County, S. Dak. No casualties; property loss $1,000; width of path 1,320 feet; length 5 or 6 miles; moved east.

No. 17, **May 27.**—The tornadoes at St. Louis and other points in Missouri and Illinois are described in the Monthly Weather Review for March, 1896 (issued in July, 1896). The area covered by tornadic action is inclosed between the two heavy lines. Three hundred and six killed; property loss $12,904,900; dimensions of path varied; general course of storm, south of east.

No. 18, **May 28.**—1.30 p. m. (Eastern time); Columbia, Pa. One killed; 20 injured; property loss about $6,000; path 150 feet wide; length unknown; moved east.

No. 18a.—3.35 p. m. (Eastern time); Montgomery and Bucks counties, Pa. (towns of Ambler, Jarrettstown, and Hatboro). Four killed; 6 injured; property loss about $100,000; path 300 feet to half mile wide; length about 15 miles; moved east-northeast.

No. 19, June 6.—5 p. m. (Central time); Beadle County, S. Dak. (towns of Cavour and Virgil). One injured; property loss $1,500; width of path varied from 33 feet to 500 feet; length not given; moved northeast.

No. 19a.—5.40 p. m. (Central time); Wentworth, Lake County, S. Dak. No casualties; width of path 330 feet; length not given; moved northeast.

No. 19b.—6.30 p. m. (Central time); Flandreau, Moody County, S. Dak. No casualties; loss of property $6,000; width of path three-fourths of a mile; length not given; moved northeast.

No. 20, June 8.—A minor tornado was observed in Winnebago County, Wis., near Oshkosh. It destroyed a barn in its path and disappeared over Lake Winnebago.

No. 21, June 9.—11 a. m. (Central time); Wyeth City (near Guntersville), Marshall County, Ala. Five injured; loss of property $5,000; width of path 200 yards; length 2 miles; moved east.

No. 22, June 21.—4.30 p. m. (Eastern time); Nutley, Essex County, N. J. No casualties; property loss small; width of path from one-half to three-fourths of a mile; length not given; moved east.

No. 23, June 24.—6.30 p. m. (Central time); Clayton, Polk County, Wis. Two injured; loss of property, 6 houses destroyed and a few barns wrecked; width of path not given; length 5 miles; moved northeast.

No. 24, June 27.—2.30 p. m. (Central time); West Louisville, Daviess County, Ky. One killed and 1 injured; loss of property $1,000; width of path 60 feet; length not given; moved east.

PART I.

LIST OF OBSERVING STATIONS.
DESCRIPTION OF INSTRUMENTS.
INSTRUMENTAL CORRECTIONS, ETC.

Blank page retained for pagination

LIST OF OBSERVING STATIONS.

The following table contains the geographical coordinates of the several stations whose summaries are published in Part III, the height of the barometer cistern above mean sea level, and of other instruments above ground, the difference between local 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 given are for January 1, 1895, except at stations established subsequent to that date. (See Table II.) Elevations preceded by the letter "B" have been determined by the barometer; all others are the results of precise levels. Changes made during 1895 are given in the second or third set of figures, as the case may be.

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, 1895);

T=continuous records of temperature (on December 31, 1895);

W=continuous records of wind (direction and velocity) (on December 31, 1895);

V=continuous records of wind (velocity only) (on December 31, 1895);

R=continuous records of rainfall (on December 31, 1895);

S=continuous records of sunshine (on December 31, 1895).

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.

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

Stations.	Latitude.		Longitude.		Local meridian time faster or slower than 75th meridian.	Elevation December 31, 1895.				Observations began.	Date of changes in elevation.
						Barometer above sea.	Thermometer above ground.	Rain gauge above ground.	Anemometer above ground.		
	°	′	°	′	h. m.	Feet.	Feet.	Feet.	Feet.		
Abilene, **P T W**	32	23	99	40	1 39 S.	1,749	47	36	54	Sept. 14, 1885	
Albany, **P T W**	42	39	73	45	05 F.	85	84	99	113	Dec. 22, 1873	
Alpena, **P T W**	45	05	83	30	34 S.	609	61	54	65	Sept. 10, 1872	
Amarillo, **T V**	35	13	101	50	1 47 S.	3,691	53	46	61	Jan. 1, 1892	
Astoria	46	57	124	00	3 15 S.	41	39	56	60	Nov. 1, 1883	
Atlanta, **P T W R**	33	45	84	23	37 S.	1,131	92	85	126	Sept. 25, 1878	
Augusta, **P T W**	33	28	81	54	27 S.	*a* 180	89	54	103	Nov. 2, 1870	
Baker City, **T V**	44	50	117	50	2 51 S.	3,430	49	38	53	July 9, 1889	
Baltimore, **P T W R S**	39	18	76	37	06 S.	179	87	80	100	Jan. 1, 1871	
						142	120	116	136	.....	Sept. 7.
Bismarck, **P T W R**	46	47	100	38	1 42 S.	1,681	16	3	29	Sept. 15, 1874	
Block Island, **V**	41	10	71	36	14 F.	27	39	3	48	Sept. 1, 1880	
Boston, **P T W R S**	42	21	71	04	16 F.	125	115	154	181	Nov. 1, 1870	
Buffalo, **P T W R S**	42	53	78	53	15 S.	690	103	93	108	.....do.....	
Cairo, **V**	37	00	89	10	56 S.	359	87	78	93	June 1, 1871	
Canby, Fort, **V**	46	16	124	04	3 16 S.	179	10	2	34	Sept. 1, 1883	

a Redetermined.

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

Stations.	Latitude.		Longitude.		Local meridian time faster or slower than 75th meridian.		Elevation December 31, 1895.				Observations began.	Date of changes in elevation.
							Barometer above sea.	Thermometer above ground.	Rain gauge above ground.	Anemometer above ground.		
	°	′	°	′	h.	m.	Feet.	Feet.	Feet.	Feet.		
Cape Henry, V	36	56	76	00		04 S.	20	5	6	34	Dec. 15, 1873	
Carson City, V	39	10	119	46	2	59 S.	4,720	47	42	.....	Dec. 1, 1887	
Charleston, P T V	32	47	79	56		20 S.	52	60	55	72	Jan. 5, 1871	
Charlotte, T V	35	13	80	51		23 S.	773	68	60	76	Oct. 6, 1878	
Chattanooga, V	35	04	85	15		41 S.	762	106	97	112	Sept. 12, 1875	
Cheyenne, T V	41	08	104	48	1	59 S.	6,105	58	50	60	Nov. 1, 1870	
Chicago, P T W R S	41	53	87	37		50 S.	824	241	238	274	.....do.....	
Cincinnati, P T W R S	39	06	84	30		38 S.	628	153	145	157	.....do.....	
Cleveland, P T W R S	41	30	81	42		27 S.	740	122	109	130	.....do.....	
Columbia, Mo., V	38	58	92	14	1	09 S.	789	4	2	41	Aug. 21, 1889	
							783	4	2	84	.....	Aug. 17.
Columbia, S. C. ¶	34	00	81	03		24 S.	.....	73	63	.....	June 5, 1887	
								5	3	.....	.....	June 8.
Columbus, P T W S	39	58	83	00		32 S.	824	87	81	93	July 1, 1878	
Concordia, V	39	35	97	41	1	31 S.	1,410	42	34	47	May 1, 1885	
Corpus Christi, V	27	49	97	25	1	30 S.	20	42	34	50	Feb. 1, 1887	
Davenport, P T W	41	30	90	38	1	02 S.	613	100	93	108	May 24, 1871	
Denver, P T W R S	39	45	105	00	2	00 S.	5,287	108	97	121	Nov. 19, 1871	
							5,309	83	74	151	.....	Oct. 1.
Des Moines, P T W S	41	35	93	37	1	14 S.	869	84	75	88	July 29, 1877	
Detroit, P T W R S	42	20	83	03		32 S.	724	158	144	161	Nov. 1, 1870	
Dodge City, P T W R S	37	45	100	00	1	40 S.	a2,504	44	37	52	Sept. 15, 1874	
Duluth, P T W R	46	47	92	06	1	08 S.	656	70	56	72	Nov. 1, 1870	
							702	95	90	106	.....	Mar. 11.
Eastport, P T W R S	44	54	66	59		32 F.	76	69	63	74	Apr. 1, 1873	
El Paso, P T W	31	47	106	30	2	06 S.	a3,767	10	2	110	Apr. 1, 1878	
Erie, V	42	07	80	05		20 S.	714	92	82	102	May 25, 1873	
Eureka, V	40	48	124	11	3	17 S.	64	60	52	69	Jan. 1, 1887	
Fort Smith, V T	35	22	94	24	1	17 S.	492	73	65	81	Apr. 13, 1879	
							481	63	56	72	.....	Apr. 1.
Fresno, V	36	43	119	49	2	59 S.	338	78	66	77	Aug. 18, 1887	
							332	67	54	70	.....	Jan. 26
Galveston, P T W R S	29	18	94	50	1	19 S.	42	85	80	96	Apr. 19, 1871	
Grand Haven, P T W	43	05	86	13		45 S.	628	55	48	64	May 24, 1871	
Green Bay, V	44	31	88	00		52 S.	617	49	41	57	Sept. 1, 1886	
Hannibal, V	39	41	91	20	1	05 S.	534	75	68	107	Apr. 16, 1892	
Harrisburg, V	40	16	76	52		07 S.	377	94	87	102	July 1, 1888	
Hatteras, V	35	15	75	40		02 S.	11	17	2	36	Dec. 1, 1880	
Havre, P T W	48	34	109	40	2	19 S.	2,477	15	2	33	May 16, 1892	
Helena, P T W S	46	34	112	04	2	28 S.	4,108	88	80	93	Apr. 1, 1880	
Huron, P T W	44	21	98	14	1	32 S.	1,310	63	56	72	July 1, 1881	
Idaho Falls, V	43	29	112	04	2	28 S.	4,742	10	1	45	June 1, 1892	
Independence, P T W	36	48	118	12	2	53 S.	3,899	51	3	58	Dec. 1, 1894	
							3,884	10	4	58	.....	July 1.
Indianapolis, P T W R	39	46	86	10		44 S.	766	75	72	87	Feb. 10, 1871	
Jacksonville, P T W R	30	20	81	39		26 S.	43	69	59	84	Sept. 11, 1871	
Jupiter, V R	26	57	80	07		20 S.	28	13	1	30	Jan. 1, 1888	
Kansas City, P T W R S	39	05	94	37	1	18 S.	963	78	81	95	Apr. 21, 1873	
Keokuk, V	40	22	91	26	1	06 S.	613	64	56	78	July 16, 1871	
Key West, P T W R S	24	34	81	49		27 S.	22	42	44	50	Nov. 1, 1870	
Kitty Hawk, V	36	00	75	42		03 S.	9	12	2	30	Jan. 15, 1875	
Knoxville, P T W	35	56	83	58		36 S.	980	80	71	88	Jan. 20, 1871	
Lacrosse, V	43	49	91	15	1	05 S.	720	70	61	78	Oct. 15, 1872	
Lander, T V	42	50	108	45	2	15 S.	5,377	12	16	34	Aug. 1, 1891	
Lansing	42	44	84	32		38 S.	881	72	67	79	Feb. 1, 1895	
Lexington, V	38	02	84	33		38 S.	989	75	2	122	Oct. 1, 1872	Closed Sept. 30, 1893, as a paid station.
Little Rock, P T W R S	34	45	92	06	1	08 S.	302	71	62	79	Apr. 21, 1873	
Los Angeles, V	34	03	118	15	2	53 S.	330	74	66	76	July 1, 1877	
Louisville, P T W R S	38	15	85	45		43 S.	525	114	106	136	Sept. 11, 1871	
Lynchburg, P T W	37	25	79	09		16 S.	685	83	76	88	May 24, 1871	
Marquette, P T W R	46	34	87	24		49 S.	734	67	58	95	May 11, 1871	
Memphis, P T W R S	35	09	90	03	1	00 S.	330	108	100	116	Feb. 28, 1871	
							399	140	134	154	.....	July 1.
Meridian, V	32	21	88	40		55 S.	358	68	58	72	Sept. 1, 1889	

a Redetermined.

¶ One observation daily at 8 a. m.

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

Stations.	Latitude.		Longitude.		Local meridian time faster or slower than 75th meridian.		Elevation December 31, 1895. Barometer above sea.	Thermometer above ground.	Rain gauge above ground.	Anemometer above ground.	Observations began	Date of changes in elevation.
	°	′	°	′	h.	m.	Feet.	Feet.	Feet.	Feet.		
Miles City, V	46	25	105	49	2	03 S.	2,374	40	34	53	Oct. 1, 1891	
							2,372	41	34	49	.....	Nov. 1.
Milwaukee, P T W R	43	02	87	54		51 S.	673	106	100	149	Nov. 1, 1870	
Minneapolis, V	44	59	93	18	1	13 S.	.....	99	95	192	Nov. 6, 1890	
Mobile, V	30	41	88	02		52 S.	57	87	78	96	Nov. 7, 1870	
								88	.....	.....	.....	Nov. 2.
Montgomery, T V	32	23	86	18		45 S.	257	99	92	110	Nov. 9, 1870	
							221	100	70	107	.....	Apr. 1.
Moorhead, P T W	46	52	96	44	1	27 S.	935	54	44	60	Jan. 31, 1881	
Nantucket, P T W R	41	17	70	06		20 F.	14	43	38	54	Oct. 18, 1886	
Narragansett Pier	41	19	71	17		15 F.	22	10	1	38	Apr. 1, 1882	
Nashville, P T W R	36	10	86	47		47 S.	545	128	116	134	Nov. 1, 1870	
Neah Bay	48	23	124	36	3	18 S.	.....	8	0	.....	Dec. 1, 1883	
New Brunswick	40	30	74	27		02 F.	.....	4	1	.....	Oct. 1, 1890	
New Haven, P T W S	41	18	72	56		08 F.	107	118	110	140	Dec. 10, 1872	
New London, V	41	21	72	05		12 F.	45	50	2	54	Jan. 10, 1871	
New Orleans, P T W R S	29	58	90	04	1	00 S.	54	112	111	120	Nov. 1, 1870	
New York, P T W R S	40	43	74	00		04 F.	185	183	155	200	.....do.....	
							314	298	247	326	.....	Mar. 15.
Norfolk, P T W R S	36	51	76	17		05 S.	57	88	80	93	Jan. 1, 1871	
Northfield, V	44	10	72	41		09 F.	872	15	2	59	Mar. 1, 1887	
North Platte, T V	41	08	100	45	1	43 S.	a 2,826	43	35	52	Sept. 18, 1874	
Oklahoma City, V	35	26	97	33	1	30 S.	1,239	54	45	53	Nov. 1, 1890	
Omaha, P T W R	41	16	95	56	1	24 S.	1,123	92	86	97	Nov. 1, 1870	
Oswego, V	43	29	76	35		06 S.	335	76	68	87	.....do.....	
Palestine, V	31	45	95	40	1	22 S.	510	54	54	61	Dec. 3, 1881	
Parkersburg, P T V	39	16	81	36		26 S.	638	77	69	84	July 1, 1888	
Pensacola, V	30	25	87	13		49 S.	56	78	79	90	Oct. 27, 1879	
Philadelphia, P T W R S	39	57	75	09	0		117	168	166	184	Jan. 1, 1871	
Phœnix, V	33	28	112	00	2	28 S.	1,106	47	39	57	Aug. 6, 1895	
Pierre, V	44	24	100	17	1	41 S.	1,470	50	47	61	July 1, 1891	
Pittsburg, P T W R	40	32	80	02		20 S.	842	116	101	123	Nov. 1, 1870	
Point Reyes Light, V	38	11	122	51	3	11 S.	.....	12	1	16	Mar. 1, 1889	
Port Angeles, V	48	07	123	06	3	14 S.	29	47	35	59	Nov. 1, 1883	
										61	.....	May 9.
Port Huron, V	43	00	82	26		30 S.	639	70	63	108	July 25, 1874	
Portland, Me., W R S	43	39	70	15		19 F.	103	81	75	89	Jan. 15, 1871	
Portland, Oreg., P T W R S	45	32	122	43	3	11 S.	157	203	196	213	Nov. 1, 1870	
Pueblo, V	38	18	104	36	1	58 S.	4,734	74	65	81	July 1, 1888	
Pysht	48	12	124	04	.....		.....	5	4	.....	Dec. 1, 1883	
Raleigh, V	35	45	78	37		14 S.	388	70	2	80	Apr. 1, 1884	
Rapid City, T V	44	04	103	12	1	53 S.	a 3,260	53	46	61	Jan. 24, 1881	
Redbluff, T V	40	10	122	15	3	09 S.	a 334	54	44	58	July 1, 1877	
Rochester, P T W R S	43	08	77	42		11 S.	523	81	78	90	Nov. 1, 1870	
Roseburg, P T W	43	13	123	20	3	13 S.	523	56	48	67	July 15, 1877	
Sacramento, V	38	35	121	30	3	06 S.	71	106	100	117	July 1, 1877	
St. Louis, P T W R S	38	38	90	12	1	01 S.	571	110	100	210	Nov. 1, 1870	
St. Paul, P T W R	44	58	93	03	1	12 S.	850	114	93	124	.....do.....	
St. Vincent, V	48	56	97	14	1	29 S.	a 794	a 17	4	31	Sept. 5, 1880	
Salt Lake, P T W R S	40	46	111	54	2	27 S.	4,345	83	75	90	Mar. 19, 1874	
San Antonio, V	29	27	98	28	1	34 S.	679	66	60	75	Jan. 2, 1876	
							704	95	83	104	.....	July 1.
San Diego, P T W R S	32	43	117	10	2	49 S.	93	73	66	85	Nov. 1, 1871	
							69	59	52	70	.....	May 1.
Sandusky, V	41	25	82	40		30 S.	629	62	55	74	Aug. 2, 1877	
San Francisco, P T W R S	37	48	122	26	3	10 S.	153	161	154	167	Feb. 2, 1871	
San Luis Obispo, V	35	18	120	39	3	03 S.	234	50	42	54	June 1, 1885	
							201	10	3	46	.....	June 1.
Santa Fe, P T W S	35	41	105	57	2	04 S.	6,998	47	39	50	Nov. 20, 1871	
Sault Ste. Marie, P T W	46	28	84	22		37 S.	642	56	48	65	Aug. 5, 1877	
Savannah, P T W R S	32	05	81	05		24 S.	98	63	55	86	Jan. 1, 1871	
Seattle, P T W R S	47	38	122	20	3	09 S.	119	100	94	108	May 1, 1893	
Shreveport, T V	32	30	93	40	1	14 S.	249	77	76	84	Sept. 3, 1871	
Sioux City, V	42	29	96	24	1	26 S.	1,165	96	92	109	Dec. 1, 1887	
Spokane, P T W S	47	40	117	25	2	49 S.	1,930	99	90	107	Feb. 1, 1881	
Springfield, Ill., V	39	48	89	39		58 S.	644	82	60	92	July 1, 1879	

a Redetermined.

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

Stations.	Latitude.	Longitude.	Local meridian time faster or slower than 75th meridian.	Elevation December 31, 1895.				Observations began.	Date of changes in elevation.
				Barometer above sea.	Thermometer above ground.	Rain gauge above ground.	Anemometer above ground.		
	° ′	° ′	h. m.	Feet.	Feet.	Feet.	Feet.		
Springfield, Mo., V	37 12	93 18	1 13 S.	a 1,324	100	3	103	June 3, 1882	
Tampa, V	27 57	82 27	30 S.	36	60	52	68	Mar. 13, 1890	
Tatoosh Island, V	48 23	124 44	3 19 S.	86	12	1	21	Oct. 1, 1883	
Titusville, T V	28 34	80 51	23 S.	44	15	1	70	June 10, 1887	Closed Nov. 15, 1895.
Toledo, P T W	41 40	83 34	34 S.	674	122	113	127	Nov. 1, 1870	
Topeka	39 03	95 41	1 23 S.	998	81	73	89	June 1, 1887	
Tucson, T V S	32 14	110 53	2 24 S.	2,390	11	4	42	Oct. 30, 1875	Closed June 30, 1895.
Valentine, V	42 50	100 32	1 42 S.	a 2,593	37	26	38	Sept. 1, 1885	
Vicksburg, P T W R S	32 22	90 53	1 03 S.	254	65	58	73	Sept. 10, 1871	
Vineyard Haven, V	41 26	70 43	17 F.	.....	20	3	55	Nov. 6, 1886	
Walla Walla, V	46 02	118 20	2 53 S.	1,018	65	56	73	Dec. 1, 1885	
Washington City, P T W R S.	38 54	77 03	08 S.	112	59	42	76	Nov. 1, 1870	
Wichita, V	37 41	97 20	1 29 S.	a 1,351	78	71	85	July 1, 1888	
Williston, T V	48 09	103 35	1 54 S.	1,875	15	22	31	Nov. 24, 1893	
Wilmington, P T W R S.	34 14	77 57	12 S.	78	82	76	88	Jan. 1, 1871	
Winnemucca, T V	40 58	117 43	2 51 S.	4,340	59	52	70	July 1, 1877	
Woods Hole, V	41 33	70 40	17 F.	22	51	39	57	Jan. 1, 1873	
Yankton, V	42 54	97 28	1 30 S.	1,232	51	43	57	Apr. 1, 1873	
Yuma, P T W	32 45	114 36	2 38 S.	141	16	2	50	Oct. 4, 1875	

a Redetermined.

TABLE II.—CHANGES IN WEATHER BUREAU STATIONS DURING 1895.

ESTABLISHED.

Stations.	Latitude.	Longitude.	Date of establishment.	Remarks.
	° ′	° ′		
Birmingham, Ala	33 32	86 37	Sept. 14, 1895	One observation daily.
Phœnix, Ariz	33 28	112 00	Aug. 6, 1895	Two observations daily.
Richmond, Va	37 32	77 26	Sept. 23, 1895	Climate and crop service; no observations.
SPECIAL RIVER.				
Bluff City, Tenn	36 27	82 16	Feb. 4, 1895	
Lewiston, Idaho	46 24	117 05	Jan. 26, 1895	Reports during floods only.
Radford, Va	37 07	80 33	.....do	
Speers Ferry, Va	36 41	82 43	Feb. 4, 1895	
Stoyestown, Pa	40 07	78 57	Jan. 30, 1895	Changed from special rainfall.
Wenatchee, Wash	47 30	120 22	Jan 16, 1895	Reports during floods only.
SPECIAL RAINFALL.				
Beardstown, Ill	40 01	90 29	Nov. 20, 1895	
COTTON REGION.				
Ballinger, Tex	31 44	99 58	July 1, 1895	
Beeville, Tex	28 24	97 41	.....do	
Dublin, Tex	32 03	98 11	.....do	
Goodwater, Ala	30 05	86 02	.....do	
Henrietta, Tex	33 44	98 09	.....do	
Kerrville, Tex	30 06	99 00	.....do	
Lampasas, Tex	31 06	98 09	.....do	
Lufkin, Tex	31 22	94 38	.....do	
Rome, Ga	34 16	85 08	.....do	
Warren, Ark	33 35	91 59	.....do	
Yemassee, S. C	32 28	80 49	Aug. 1, 1895	

TABLE II.—CHANGES IN WEATHER BUREAU STATIONS DURING 1895—Continued.

DISCONTINUED.

Stations.	Latitude.		Longitude.		Date of discontinuance.	Remarks.
	°	′	°	′		
New London, Conn	41	21	72	05	Sept. 30, 1895	
Olympia, Wash	47	03	122	53	.....do	
Titusville, Fla	28	34	80	51	Nov. 15, 1895	
Tucson, Ariz	32	14	110	53	June 30, 1895	
SPECIAL RIVER.						
Bainbridge, Ga	30	52	84	36	Nov. 5, 1895	
Beardstown, Ill	40	01	90	29	Nov. 20, 1895	
Buchanan, Va	37	31	79	44	Dec. 31, 1895	
Circleville, Ohio	39	37	82	57	Dec. 20, 1895	
Clarion, Pa	41	32	77	15	Nov. 20, 1895	
Columbia, Tenn	35	37	87	01	.....do	
Conshatta, La	32	00	93	14	.....do	
Delhi, La	32	28	91	26	.....do	
Eddyville, Ky	37	01	88	00	June 30, 1895	
Lafayette, Ind	40	26	86	54	Nov. 20, 1895	
Louisiana, Mo	39	28	91	05	.....do	
Mahoning, Pa	40	57	79	24	.....do	
Melville, La	30	41	91	40	.....do	
Phillippi, W. Va	39	07	80	04	.....do	
Richmond, Va	37	32	77	26	Dec. 31, 1895	
Saltsburg, Pa	40	31	79	26	Nov. 20, 1895	
Stoyestown, Pa	40	07	78	57	.....do	
Zanesville, Ohio	39	56	82	07	Dec. 20, 1895	
SPECIAL RAINFALL.						
Abingdon, Va	36	43	82	02	Dec. 20, 1895	
Alexandria, Minn	45	52	95	22	June 30, 1895	
Arkadelphia, Ark	34	06	93	01	Nov. 20, 1895	
Bowling Green, Ky	36	58	86	25	.....do	
Chippewa Falls, Wis	44	55	91	22	June 30, 1895	
Christiansburg, Va	37	05	80	23	Mar. 31, 1895	
Fergus Falls, Minn	46	16	96	06	June 30, 1895	
Fort Ripley, Minn	46	10	94	24	.....do	
Greensburg, Ky	37	16	85	33	Nov. 20, 1895	
Logansport, Ind	40	45	86	22	.....do	
Medford, Wis	45	09	90	22	June 30, 1895	
Ortonville, Minn	45	18	96	31	Feb. 10, 1895	
Portage, Wis	43	32	89	28	June 30, 1895	
Redwood Falls, Minn	44	31	95	07	.....do	
COTTON REGION.						
Hardeeville, S. C	32	15	81	05	Aug. 1, 1895	

DESCRIPTION OF INSTRUMENTS.

By Prof. C. F. MARVIN.

The instrumental equipment of the principal stations of the Weather Bureau is set forth in the accompanying lists.

AUTOMATIC INSTRUMENTS AT THE PRINCIPAL STATIONS:

One double or triple register, recording wind and rain, and in some cases sunshine (Weather Bureau pattern).
One set electrical contacts, and box, for anemoscope.
One sunshine recorder, photographic (Jordan—Weather Bureau pattern).
One sunshine recorder, thermometric (Marvin's).
One electrically recording rain gauge (Marvin's pattern, 1888).
One electrically recording weighing rain and snow gauge (Marvin's pattern, 1892).
One aneroid barograph (Richard Bros.).
One thermograph (Richard Bros.).
One thermograph recording electrically at a distance (Richard Bros.).

Each so-called principal station is also furnished with the entire equipment specified in the list following:

EQUIPMENT OF INSTRUMENTS AND ACCESSORIES AT LESS IMPORTANT STATIONS:

Two anemometers, Robinson pattern, 4-inch cups, arms 6.72 inches.
One anemometer register, single.
Two mercurial barometers (Fortin ¼-inch tube).
One glass barometer case.
One set maximum and minimum thermometers, with mountings.
One extra set maximum and minimum thermometers.
Two sets wet and dry bulb mercurial thermometers.
One whirling apparatus for wet and dry bulb thermometers.
One standard instrument shelter, about 3 feet cube, with supports.
One standard anemoscope, tail 3 feet by 10 inches.
One iron anemoscope support, with antifriction mountings, etc.
One iron anemometer support, or parts, to combine with support of anemoscope.
One 8-inch brass rain gauge, with support and measuring sticks.
One 8-inch galvanized iron snow gauge, with support. Batteries, wire, etc.

In the case of the equipment of stations of the last-named class no variation or departure from the above list of instruments occurs, but owing to limited supplies and other circumstances the principal stations do not in every case have all the additional instruments cited. Thus, only a portion are supplied with sunshine recorders and the electrically recording rain gauge, and only seven electrically recording thermographs are in use. On the other hand, about twenty stations of the second class have either thermograph or barograph, or both, in use. Again, the station at Washington has a still more complete equipment than outlying stations, and the instruments in many respects are of much superior pattern.

For a description of the instruments above named, except the thermometric sunshine recorder, the reader is referred to pages 19 to 36, Report of the Chief of the Weather Bureau, 1891–92.

The thermometric sunshine recorder operates on the principle of a differential air thermometer and the record is made electrically, the instrument being adjusted as nearly as possible to record when the sunshine is sufficiently intense to cast a perceptible shadow. A full description of the instrument and illustration are given in the Annual Report of the Chief of the Weather Bureau, 1893, pages 18 and 19.

The exposures, installation, and the means employed to secure uniformly accurate indications of the Weather Bureau instruments, and to eliminate accidental errors, have been substantially the same as already described and explained in detail in the Annual Report of the Chief of the Weather Bureau, 1891–92, pages 19 to 47.

No radical changes have been made during the year in respect to the character of any of the regular or automatic instruments, nor have any new types of instruments been introduced. Experiments, however, have been made upon a modification of the tipping-bucket rain gauge, with a view of obtaining the necessary accuracy of measurement with this form of recorder and adapting it to registration on the sheet of paper containing the record of wind velocity and direction and sunshine. Various difficulties were encountered, but finally a very successful and trustworthy apparatus was devised. A gauge of this type was in operation at the Weather Bureau exhibit of the Cotton States and International Exposition, Atlanta, Ga., and has been used at the Washington station. The results were very satisfactory, and it is contemplated to introduce this gauge instead of the recording float gauge now in use at a number of stations.

Prof. Willis L. Moore, Chief of the Weather Bureau, perceiving the great importance and value of securing exact observations of the atmospheric conditions at great elevations in the free air, instituted in the latter part of the year a series of investigations having for their object the construction and perfecting of devices for carrying automatic meteorological instruments to elevations of from one to two miles in the free air. Experiments with kites were first taken up, and the idea of a combination kite balloon considered. Professor Moore also suggested the elaboration of what we may call the flying top, with which many will be familiar. It consists of a vertical axis, fitted at the top end with a series of radial blades set propeller fashion. When made to spin at a high velocity, by means of a string or otherwise, the apparatus when released lifts itself in the air to a very considerable elevation.

INSTRUMENTAL CORRECTIONS, ETC.

No change has been made since the date of last report in the methods of reduction or in the application of numerical corrections to the various instrumental readings from which the data here given have been drawn.

The remarks under "Explanation of the tables" generally indicate with sufficient clearness the nature of the statistical matter given throughout the volume. A detailed account of the methods of reductions, etc., will be found on pages 37 to 48, Report of the Chief of the Weather Bureau, 1891–92.

PART II.

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

EXPLANATION OF THE TABLES.

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

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

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

The hourly values are read off to the nearest hundredth of an inch, but the averages in the tables are given to thousandths of an inch, in conformity with the plan adopted in the Monthly Weather Review.

A correction for reduction to standard gravity has not been applied, but it is given at the head of each table.

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

Temperature.—The mean hourly temperatures given in the tables have been deduced from thermographs described and figured in the Report of the Chief of the Weather Bureau, 1891-92, page 29. These instruments are placed in the standard shelter with other thermometers, and are checked twice daily for time errors, and for agreement with the standard whirled psychrometer.

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

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

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

As has been noted elsewhere, the greatest differences are those between the daily extremes registered by thermographs and by standard self-registering maximum and minimum thermometers, respectively.

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

In studying the diurnal variation of wind movement, the following facts should be kept in mind. In graduating the dials of the various sizes of Robinson anemometers, it has been assumed by the makers that the centers of the cups move only one-third as fast as the wind, although numerous experiments have demonstrated that cups and arms of various proportions require different formulæ and tables of reduction even in perfectly steady motion. Professor Marvin has further shown that for ordinary gusty winds, when the anemometer cups rapidly vary their rate of rotation, the moment of inertia of the revolving parts is a most important factor.

The instruments having the least inertia record most truly, and those having large inertia exceed these in proportion as the gusts are stronger, consequently the anemometer records are liable to be too large in the gusty winds of the daytime as compared with the more steady winds of nighttime. No correction for this inertia error has been determined, nor can be, unless we have simultaneous records with two anemometers having different moments of inertia; therefore the apparent diurnal variation of wind velocity includes a slight inertia error which is probably periodic in character between the winds of daytime and nighttime.

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

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

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

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

This equation has been deduced from comparative observations in the open air of anemometers whose behavior in steady velocities on the whirling machine had been previously studied. The recognition thus given the important effects of inertia enables us to say that by applying this formula, or the following equivalent table, we partly annul the influence of the inertia of brass anemometers used by the Weather Bureau.

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

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

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

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

A summary of wind direction is given on the right of the tables of average velocity. The entries under the several headings "N.," "NE.," etc., represent the number of hours during the month that the wind blew from the points indicated at the top of the columns. In tabulating these data from the original instrumental register sheets but one direction for each hour—that which prevailed the longest—was taken off, although two or more directions may have been registered during the hour.

References: H = Height of barometer above sea level.
h_t = Height of thermometer above ground.
h_a = Height of anemometer cups above ground.

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

BISMARCK, N. DAK.

[λ=46° 47′ N.; φ=100° 39′ W.]

1895	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	28.198	.196	.200	.205	.205	.201	.198	.198	.205	.214	.216	.215	.202
Feb	28.317	.315	.314	.314	.313	.315	.326	.334	.340	.351	.360	.361	.362
Mar	28.201	.206	.212	.213	.210	.214	.217	.223	.226	.229	.225	.216	.201
Apr	28.202	.203	.204	.205	.208	.214	.222	.227	.231	.226	.225	.221	.208
May....	28.156	.152	.151	.149	.147	.147	.159	.166	.169	.168	.164	.159	.151
June ...	28.232	.233	.235	.239	.242	.246	.249	.252	.252	.251	.248	.243	.241
July....	28.201	.199	.205	.205	.209	.215	.225	.232	.236	.232	.228	.222	.213
Aug	28.181	.182	.183	.190	.194	.198	.203	.209	.220	.220	.214	.207	.191
Sept....	28.151	.151	.153	.154	.155	.153	.157	.160	.161	.164	.158	.147	.135
Oct.....	28.271	.274	.278	.277	.280	.284	.292	.290	.302	.309	.303	.295	.279
Nov	28.225	.223	.223	.222	.221	.219	.222	.222	.227	.228	.225	.223	.214
Dec	28.104	.097	.094	.098	.096	.092	.094	.094	.098	.104	.110	.109	.094
Year....	28.203	.203	.204	.206	.207	.208	.214	.217	.222	.225	.223	.218	.208

BOSTON, MASS.

[λ=42° 21′ N.; φ=71° 4′ W.]

Jan	29.881	.892	.891	.886	.882	.888	.894	.902	.908	.902	.882	.860	.842
Feb	29.735	.730	.720	.714	.711	.713	.723	.727	.724	.723	.715	.699	.680
Mar	29.796	.785	.782	.785	.791	.801	.809	.817	.814	.814	.810	.803	.792
Apr	29.895	.892	.887	.888	.897	.904	.914	.915	.918	.917	.910	.903	.893
May....	29.903	.898	.899	.900	.911	.918	.923	.926	.924	.921	.911	.899	.888
June ...	29.936	.934	.936	.940	.950	.959	.964	.964	.962	.962	.957	.956	.945
July....	29.808	.806	.805	.810	.820	.826	.833	.835	.831	.829	.824	.818	.808
Aug	29.805	.804	.801	.803	.812	.815	.821	.824	.822	.820	.810	.804	.792
Sept....	29.896	.887	.893	.896	.906	.915	.917	.926	.926	.915	.906	.896	.884
Oct.....	29.875	.869	.868	.873	.880	.883	.896	.904	.900	.896	.886	.871	.854
Nov	30.001	.003	.997	.003	.006	.014	.024	.035	.039	.038	.024	.012	.001
Dec	29.962	.966	.956	.948	.950	.957	.971	.985	.001	.004	.987	.971	.962
Year....	29.874	.872	.870	.870	.876	.883	.891	.897	.897	.895	.885	.874	.862

BUFFALO, N. Y.

[λ=42° 53′ N.; φ=78° 53′ W.]

Jan	29.191	.195	.205	.198	.188	.189	.199	.211	.220	.228	.225	.212	.194
Feb	29.258	.252	.245	.238	.236	.240	.248	.256	.263	.262	.263	.256	.244
Mar	29.258	.258	.256	.257	.263	.269	.278	.284	.285	.286	.279	.270	.257
Apr	29.272	.264	.259	.257	.262	.273	.284	.287	.287	.292	.288	.281	.276
May....	29.297	.293	.292	.294	.300	.309	.317	.320	.322	.322	.319	.308	.299
June ...	29.319	.319	.319	.325	.335	.345	.352	.356	.355	.352	.347	.339	.332
July....	29.244	.235	.231	.234	.243	.249	.256	.259	.260	.258	.258	.253	.246
Aug	29.203	.201	.200	.201	.208	.216	.227	.231	.229	.230	.228	.223	.216
Sept....	29.287	.284	.282	.282	.290	.300	.310	.305	.315	.315	.311	.304	.294
Oct.....	29.265	.260	.256	.255	.260	.263	.269	.277	.279	.278	.272	.259	.250
Nov	29.349	.353	.352	.346	.350	.356	.365	.379	.387	.388	.385	.371	.357
Dec	29.2[illegible]6	.299	.303	.296	.293	.297	.308	.309	.314	.317	.307	.288	.271
Year....	29.270	.268	.267	.265	.269	.276	.284	.290	.293	.294	.290	.280	.270

CHICAGO, ILL.

[λ=41° 53′ N.; φ=87° 37′ W.]

Jan	29.085	.084	.096	.097	.091	.087	.095	.102	.114	.120	.125	.114	.087
Feb	29.227	.225	.225	.219	.218	.219	.222	.228	.233	.236	.237	.236	.219
Mar	29.133	.129	.123	.121	.121	.125	.133	.141	.145	.151	.150	.151	.141
Apr	29.118	.111	.108	.106	.107	.114	.126	.132	.130	.136	.136	.131	.125
May....	29.127	.121	.120	.122	.127	.141	.148	.153	.160	.160	.161	.156	.147
June ...	29.161	.160	.163	.164	.173	.183	.191	.197	.202	.200	.198	.195	.187
July....	29.130	.126	.123	.128	.135	.143	.152	.157	.161	.160	.161	.159	.155
Aug	29.077	.073	.073	.072	.075	.083	.096	.104	.108	.109	.110	.102	.095
Sept....	29.132	.121	.135	.135	.142	.149	.160	.165	.170	.169	.164	.160	.144
Oct.....	29.171	.171	.170	.170	.175	.180	.186	.196	.204	.206	.204	.200	.184
Nov	29.198	.197	.201	.195	.194	.201	.200	.211	.219	.219	.222	.216	.204
Dec	29.089	.082	.089	.085	.077	.079	.086	.093	.097	.105	.107	.099	.081
Year....	29.137	.134	.136	.134	.136	.142	.150	.157	.162	.164	.165	.160	.147

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

BISMARCK, N. DAK.

[H = 1,681 ft.; gravity correction, 0; local time, 1h 42m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1895.
.181	.166	.163	.166	.174	.182	.187	.189	.188	.192	.197	.193	.332	.053	Jan.
.352	.338	.330	.330	.329	.326	.329	.324	.318	.318	.318	.331	.478	.165	Feb.
.185	.170	.155	.149	.150	.155	.163	.167	.177	.186	.193	.193	.345	.050	Mar.
.193	.183	.174	.166	.158	.160	.162	.172	.181	.187	.191	.197	.310	.078	Apr.
.145	.137	.131	.122	.117	.117	.118	.127	.140	.146	.151	.145	.262	.020	May.
.235	.229	.223	.215	.209	.209	.213	.219	.230	.238	.239	.234	.299	.167	June.
.205	.195	.187	.177	.167	.164	.164	.168	.180	.202	.202	.201	.275	.122	July.
.178	.164	.149	.138	.130	.125	.130	.145	.161	.170	.175	.177	.288	.060	Aug.
.117	.099	.086	.081	.078	.081	.086	.103	.118	.130	.142	.130	.268	.987	Sept.
.259	.245	.239	.235	.236	.242	.248	.257	.264	.269	.272	.271	.412	.126	Oct.
.199	.193	.192	.199	.208	.219	.225	.226	.229	.230	.232	.219	.361	.074	Nov.
.078	.069	.074	.083	.093	.099	.095	.090	.085	.080	.078	.092	.245	.923	Dec.
.194	.182	.175	.172	.171	.173	.177	.182	.189	.196	.199	.199	.323	.069	Year.

BOSTON, MASS.

[H = 125 ft.; gravity correction, —.01; local time, 16m fast.]

.844	.849	.854	.864	.874	.885	.884	.891	.893	.887	.887	.880	.006	.742	Jan.
.673	.673	.680	.688	.698	.702	.704	.707	.708	.708	.706	.707	.846	.571	Feb.
.784	.783	.785	.793	.797	.805	.806	.811	.814	.817	.813	.800	.932	.665	Mar.
.884	.880	.879	.884	.888	.901	.910	.912	.913	.912	.911	.900	.028	.775	Apr.
.879	.867	.865	.861	.863	.871	.884	.894	.894	.897	.894	.895	.970	.821	May.
.938	.929	.924	.923	.922	.929	.934	.939	.942	.940	.935	.942	.005	.865	June.
.802	.792	.790	.790	.792	.796	.805	.813	.811	.809	.807	.811	.876	.742	July.
.782	.775	.775	.773	.779	.790	.801	.808	.810	.811	.811	.802	.877	.736	Aug.
.877	.869	.867	.872	.878	.887	.893	.898	.899	.895	.895	.895	.979	.811	Sept.
.849	.846	.849	.857	.866	.873	.877	.882	.882	.878	.875	.874	.005	.737	Oct.
.999	.001	.003	.009	.017	.020	.024	.024	.023	.025	.022	.015	.170	.843	Nov.
.958	.962	.964	.970	.976	.978	.973	.966	.963	.959	.947	.968	.109	.791	Dec.
.856	.852	.853	.857	.862	.870	.875	.879	.879	.878	.875	.871	.984	.758	Year.

BUFFALO, N. Y.

[H = 690 ft.; gravity correction, 0; local time, 15m slow.]

.188	.191	.197	.198	.204	.209	.214	.213	.212	.206	.197	.204	.354	.020	Jan.
.234	.232	.233	.236	.241	.243	.242	.241	.239	.238	.235	.245	.385	.096	Feb.
.240	.233	.233	.235	.242	.251	.255	.261	.265	.267	.269	.260	.390	.106	Mar.
.269	.258	.254	.258	.262	.267	.278	.288	.287	.288	.287	.274	.371	.188	Apr.
.291	.282	.274	.273	.268	.270	.279	.288	.292	.291	.291	.295	.363	.226	May.
.325	.313	.309	.301	.303	.304	.309	.322	.323	.323	.323	.327	.387	.263	June.
.241	.233	.227	.224	.225	.228	.229	.237	.240	.243	.241	.241	.309	.170	July.
.207	.199	.193	.187	.191	.193	.195	.205	.206	.211	.215	.209	.280	.137	Aug.
.283	.276	.271	.268	.269	.275	.279	.285	.287	.286	.282	.289	.369	.196	Sept.
.241	.238	.239	.245	.252	.258	.262	.265	.263	.261	.260	.259	.370	.142	Oct.
.350	.349	.351	.355	.359	.364	.364	.368	.367	.365	.364	.362	.477	.232	Nov.
.264	.265	.266	.267	.273	.278	.280	.281	.280	.282	.281	.288	.389	.170	Dec.
.261	.256	.254	.254	.257	.262	.266	.271	.272	.272	.270	.271	.370	.162	Year.

CHICAGO, ILL.

[H = 824 ft.; gravity correction, —.01; local time, 50m slow.]

.074	.070	.075	.082	.085	.091	.096	.101	.100	.100	.098	.095	.238	.927	Jan.
.206	.196	.193	.192	.198	.199	.203	.203	.204	.208	.206	.215	.339	.095	Feb.
.127	.117	.115	.113	.114	.119	.130	.138	.147	.147	.145	.132	.246	.008	Mar.
.120	.108	.102	.100	.101	.105	.114	.125	.129	.128	.131	.118	.187	.053	Apr.
.137	.128	.114	.107	.103	.101	.105	.118	.123	.126	.127	.131	.209	.043	May.
.177	.165	.155	.146	.143	.146	.146	.151	.157	.160	.164	.170	.224	.109	June.
.146	.135	.127	.119	.111	.113	.116	.123	.131	.132	.134	.137	.206	.055	July.
.084	.070	.061	.055	.051	.050	.056	.067	.073	.078	.082	.079	.141	.014	Aug.
.130	.117	.111	.101	.099	.101	.105	.117	.122	.128	.130	.134	.218	.036	Sept.
.167	.157	.157	.156	.157	.164	.164	.169	.169	.173	.170	.176	.286	.059	Oct.
.192	.185	.186	.193	.199	.202	.207	.209	.210	.203	.202	.203	.299	.089	Nov.
.071	.072	.076	.081	.086	.094	.100	.099	.099	.099	.094	.089	.213	.956	Dec.
.136	.127	.123	.120	.121	.124	.128	.135	.139	.140	.140	.140	.234	.037	Year.

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

CINCINNATI, OHIO.

[λ=39° 6′ N.; φ=84° 30′ W.]

1895.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	29.359	.361	.369	.369	.365	.369	.377	.389	.403	.411	.405	.385	.360
Feb	29.496	.495	.490	.487	.488	.495	.501	.508	.517	.518	.520	.515	.494
Mar	29.371	.372	.366	.361	.365	.370	.378	.390	.398	.400	.397	.389	.377
Apr	29.318	.317	.317	.315	.320	.331	.346	.356	.357	.358	.354	.344	.332
May	29.396	.393	.392	.393	.400	.413	.423	.429	.431	.428	.426	.419	.406
June	29.401	.400	.399	.401	.412	.424	.435	.438	.441	.437	.434	.426	.414
July	29.361	.358	.355	.357	.365	.374	.384	.389	.390	.389	.385	.379	.370
Aug	29.321	.321	.322	.321	.327	.339	.348	.355	.356	.355	.352	.339	.327
Sept	29.406	.404	.404	.408	.415	.425	.440	.446	.452	.455	.447	.436	.420
Oct	29.442	.443	.441	.443	.450	.457	.466	.476	.483	.483	.478	.465	.442
Nov	29.470	.472	.474	.475	.479	.483	.491	.501	.508	.511	.508	.495	.477
Dec	29.407	.403	.405	.401	.396	.397	.404	.407	.417	.425	.422	.401	.380
Year	29.396	.395	.394	.394	.398	.406	.416	.424	.429	.431	.427	.416	.400

CLEVELAND, OHIO.

[λ=41° 30′ N.; φ=81° 42′ W.]

Jan	29.169	.177	.185	.185	.183	.183	.186	.191	.198	.206	.202	.187	.169
Feb	29.271	.265	.266	.266	.268	.272	.278	.278	.285	.282	.280	.278	.263
Mar	29.234	.237	.233	.233	.235	.237	.240	.238	.237	.236	.230	.226	.219
Apr	29.204	.195	.195	.198	.203	.216	.233	.235	.237	.237	.233	.221	.212
May	29.246	.240	.241	.246	.254	.263	.275	.280	.280	.277	.271	.259	.251
June	29.270	.267	.267	.273	.283	.295	.304	.311	.311	.311	.308	.303	.293
July	29.206	.204	.204	.209	.219	.229	.239	.245	.245	.243	.242	.235	.230
Aug	29.162	.161	.163	.165	.171	.182	.193	.202	.207	.205	.202	.195	.187
Sept	29.241	.240	.242	.246	.253	.265	.278	.287	.289	.290	.288	.278	.265
Oct	29.251	.252	.250	.249	.253	.257	.260	.271	.275	.269	.264	.259	.244
Nov	29.305	.306	.308	.311	.315	.322	.328	.337	.341	.341	.333	.318	.301
Dec	29.251	.255	.257	.254	.250	.248	.248	.247	.252	.253	.249	.226	.203
Year	29.234	.233	.234	.236	.241	.247	.255	.260	.263	.262	.258	.249	.236

DETROIT, MICH.

[λ=42° 20′ N.; φ=83° 3′ W.]

Jan	29.158	.162	.170	.167	.167	.169	.175	.185	.194	.201	.200	.183	.161
Feb	29.262	.258	.258	.255	.260	.265	.267	.274	.279	.281	.280	.276	.259
Mar	29.239	.238	.238	.235	.233	.235	.242	.246	.245	.245	.243	.237	.231
Apr	29.227	.223	.220	.219	.223	.232	.244	.251	.251	.251	.249	.243	.233
May	29.251	.244	.241	.243	.248	.257	.267	.271	.273	.270	.268	.259	.250
June	29.282	.280	.280	.283	.292	.300	.309	.316	.317	.314	.310	.301	.294
July	29.225	.226	.224	.225	.230	.239	.248	.256	.260	.255	.252	.244	.232
Aug	29.182	.180	.181	.181	.185	.189	.197	.203	.206	.209	.208	.201	.191
Sept	29.251	.251	.252	.253	.257	.266	.277	.284	.294	.294	.289	.282	.271
Oct	29.256	.256	.251	.251	.252	.257	.262	.269	.275	.276	.270	.263	.247
Nov	29.321	.319	.321	.318	.319	.323	.326	.334	.340	.344	.345	.337	.319
Dec	29.247	.245	.249	.245	.237	.235	.235	.236	.239	.245	.243	.227	.210
Year	29.242	.240	.240	.240	.242	.247	.254	.260	.264	.265	.263	.254	.242

DODGE CITY, KANS.

[λ=37° 45′ N.; φ=100° W.]

Jan	27.369	.363	.365	.372	.370	.367	.362	.370	.381	.393	.406	.410	.395
Feb	27.546	.541	.535	.531	.525	.522	.520	.524	.533	.541	.552	.556	.552
Mar	27.377	.377	.379	.373	.366	.364	.373	.384	.397	.408	.414	.412	.403
Apr	27.334	.334	.328	.326	.324	.326	.333	.343	.349	.348	.348	.346	.337
May	27.330	.328	.326	.326	.332	.337	.345	.360	.374	.377	.374	.369	.357
June	27.430	.427	.433	.429	.427	.432	.438	.444	.451	.456	.451	.451	.444
July	27.431	.424	.418	.412	.413	.420	.427	.435	.441	.448	.446	.443	.438
Aug	27.397	.394	.391	.388	.389	.390	.399	.408	.417	.420	.423	.422	.414
Sept	27.389	.392	.388	.386	.387	.389	.398	.410	.420	.426	.432	.425	.413
Oct	27.523	.522	.521	.518	.516	.519	.528	.532	.544	.553	.556	.553	.544
Nov	27.445	.440	.436	.434	.431	.429	.435	.439	.452	.459	.462	.462	.446
Dec	27.418	.413	.407	.412	.413	.407	.406	.412	.421	.428	.447	.452	.430
Year	27.416	.413	.411	.409	.408	.408	.414	.422	.432	.438	.443	.442	.431

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

CINCINNATI, OHIO.

[H=628 ft.; gravity correction, —.02; local time, 38m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1895.
.349	.350	.350	.351	.355	.361	.366	.366	.364	.363	.361	.369	.497	.225	Jan.
.474	.469	.466	.468	.472	.475	.475	.474	.475	.474	.471	.488	.602	.371	Feb.
.357	.346	.340	.340	.344	.348	.355	.370	.376	.379	.380	.370	.485	.252	Mar.
.318	.299	.292	.290	.289	.291	.301	.313	.318	.326	.330	.322	.399	.251	Apr.
.392	.379	.370	.365	.361	.364	.371	.381	.392	.397	.401	.397	.463	.325	May.
.401	.388	.378	.370	.366	.368	.369	.381	.394	.397	.399	.403	.460	.347	June.
.359	.347	.341	.336	.329	.331	.335	.346	.357	.361	.363	.361	.420	.299	July.
.314	.295	.282	.277	.273	.277	.287	.305	.312	.317	.322	.318	.373	.264	Aug.
.403	.387	.377	.373	.373	.374	.384	.393	.400	.405	.409	.410	.479	.337	Sept.
.422	.410	.407	.404	.409	.418	.426	.433	.435	.437	.433	.442	.535	.340	Oct.
.464	.459	.459	.464	.470	.479	.480	.480	.477	.473	.472	.480	.572	.372	Nov.
.366	.367	.373	.381	.393	.398	.404	.406	.408	.410	.409	.399	.509	.283	Dec.
.385	.375	.370	.368	.370	.374	.379	.387	.392	.395	.396	.397	.483	.306	Year.

CLEVELAND, OHIO.

[H=740 ft.; gravity correction, —.01; local time, 27m slow.]

.157	.158	.163	.169	.180	.183	.183	.175	.170	.166	.167	.179	.328	.001	Jan.
.246	.240	.240	.244	.251	.253	.249	.244	.243	.246	.247	.261	.395	.126	Feb.
.206	.199	.196	.197	.198	.204	.213	.221	.225	.230	.237	.223	.349	.088	Mar.
.200	.192	.186	.186	.188	.195	.205	.207	.210	.210	.213	.209	.287	.137	Apr.
.243	.237	.228	.228	.224	.227	.231	.239	.244	.245	.245	.249	.324	.175	May.
.282	.271	.262	.258	.258	.261	.265	.267	.274	.273	.271	.281	.340	.216	June.
.218	.209	.204	.197	.194	.195	.197	.199	.201	.204	.206	.215	.282	.134	July.
.175	.166	.157	.155	.153	.152	.159	.165	.165	.165	.168	.174	.236	.106	Aug.
.247	.238	.231	.230	.230	.234	.240	.241	.239	.240	.236	.253	.327	.158	Sept.
.228	.226	.223	.229	.237	.248	.253	.253	.251	.248	.245	.250	.352	.132	Oct.
.292	.291	.293	.301	.311	.316	.318	.317	.318	.319	.316	.315	.416	.198	Nov.
.196	.200	.206	.211	.220	.228	.233	.232	.235	.238	.239	.235	.342	.123	Dec.
.224	.219	.216	.217	.220	.225	.229	.230	.231	.232	.232	.237	.332	.133	Year.

DETROIT, MICH.

[H=724 ft.; gravity correction, —.01; local time, 32m slow.]

.146	.145	.156	.162	.167	.171	.172	.171	.167	.164	.160	.170	.319	.981	Jan.
.244	.238	.236	.238	.240	.247	.246	.244	.241	.239	.238	.255	.391	.111	Feb.
.216	.207	.203	.203	.207	.215	.224	.232	.245	.248	.247	.231	.358	.100	Mar.
.222	.211	.206	.206	.208	.212	.221	.237	.242	.241	.241	.230	.309	.115	Apr.
.241	.232	.224	.223	.219	.222	.227	.236	.246	.246	.248	.246	.323	.171	May.
.284	.274	.267	.262	.258	.261	.266	.276	.285	.284	.284	.287	.349	.225	June.
.221	.213	.205	.202	.198	.199	.202	.212	.219	.224	.226	.227	.301	.148	July.
.179	.168	.160	.153	.148	.151	.158	.169	.177	.184	.188	.181	.246	.116	Aug.
.256	.244	.233	.227	.227	.234	.239	.248	.251	.253	.252	.258	.349	.158	Sept.
.238	.232	.231	.234	.239	.248	.254	.256	.263	.258	.253	.254	.363	.132	Oct.
.307	.305	.305	.310	.317	.322	.326	.330	.332	.327	.328	.324	.425	.207	Nov.
.202	.198	.204	.208	.217	.226	.232	.234	.238	.238	.238	.230	.337	.118	Dec.
.230	.222	.219	.219	.220	.226	.231	.237	.242	.242	.242	.241	.339	.135	Year.

DODGE CITY, KANS.

[H=2,504 ft.; gravity correction, —.02; local time, 1h 40m slow.]

.365	.346	.339	.340	.343	.347	.355	.364	.372	.378	.375	.369	.505	.229	Jan.
.532	.512	.500	.500	.502	.509	.515	.524	.530	.537	.541	.528	.641	.419	Feb.
.384	.359	.340	.332	.329	.334	.338	.350	.360	.369	.374	.371	.496	.253	Mar.
.322	.312	.294	.286	.284	.283	.283	.295	.315	.323	.326	.321	.422	.214	Apr.
.341	.323	.309	.297	.287	.282	.281	.293	.309	.323	.328	.330	.418	.231	May.
.437	.425	.411	.396	.385	.381	.391	.407	.416	.431	.437	.426	.502	.346	June.
.431	.421	.411	.398	.387	.382	.385	.394	.407	.421	.430	.419	.471	.360	July.
.403	.390	.378	.370	.359	.353	.358	.369	.387	.397	.399	.392	.459	.323	Aug.
.394	.375	.357	.346	.341	.340	.344	.359	.375	.382	.384	.385	.480	.286	Sept.
.521	.500	.489	.482	.477	.481	.491	.501	.511	.522	.527	.518	.610	.428	Oct.
.419	.405	.396	.395	.398	.404	.416	.425	.433	.436	.437	.431	.543	.331	Nov.
.401	.384	.376	.379	.381	.393	.402	.409	.414	.418	.421	.410	.532	.289	Dec.
.412	.396	.383	.377	.373	.374	.380	.391	.402	.411	.415	.408	.507	.309	Year.

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

EASTPORT, ME.

[λ = 44° 54′ N.; φ = 66° 59′ W.]

1895.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	29.862	.870	.875	.874	.877	.888	.905	.921	.927	.923	.903	.883	.866
Feb	29.662	.660	.656	.656	.656	.654	.661	.668	.666	.664	.649	.634	.616
Mar	29.745	.738	.735	.740	.749	.759	.770	.781	.783	.779	.772	.757	.741
Apr	29.920	.919	.917	.920	.927	.937	.944	.947	.950	.949	.942	.932	.921
May	29.913	.911	.909	.911	.920	.927	.932	.934	.936	.934	.927	.917	.907
June ...	29.975	.971	.971	.976	.983	.990	.995	.997	.996	.994	.990	.982	.973
July	29.844	.840	.836	.839	.846	.850	.854	.852	.852	.849	.845	.841	.835
Aug	29.803	.800	.797	.800	.807	.814	.818	.820	.822	.816	.811	.805	.800
Sept	29.897	.897	.900	.905	.909	.916	.918	.922	.920	.908	.895	.885	.874
Oct.	29.873	.872	.872	.875	.878	.885	.893	.898	.897	.893	.880	.866	.856
Nov	30.040	.035	.027	.026	.026	.033	.045	.052	.057	.057	.046	.034	.026
Dec	29.981	.979	.968	.963	.963	.969	.980	.992	.001	.996	.978	.966	.961
Year	29.876	.874	.872	.874	.878	.885	.893	.899	.901	.897	.886	.875	.865

GALVESTON, TEX.

[λ = 29° 18′ N.; φ = 94° 50′ W.]

Jan	30.053	.046	.044	.043	.038	.039	.048	.061	.076	.092	.102	.095	.070
Feb	30.216	.215	.209	.207	.207	.210	.221	.232	.241	.244	.242	.238	.220
Mar	30.056	.055	.043	.037	.033	.040	.050	.065	.077	.090	.094	.093	.081
Apr	29.990	.984	.980	.981	.980	.987	.000	.017	.017	.026	.031	.033	.025
May	29.971	.962	.952	.951	.953	.958	.969	.979	.990	.996	.999	.999	.990
June ...	30.015	.011	.004	.003	.008	.011	.016	.029	.038	.045	.049	.049	.042
July	30.014	.008	.003	.002	.003	.009	.019	.033	.036	.037	.039	.039	.038
Aug	29.961	.959	.957	.956	.959	.967	.978	.990	.996	.000	.005	.003	.993
Sept	30.005	.000	.996	.992	.996	.003	.012	.022	.033	.040	.044	.041	.029
Oct.	30.051	.050	.047	.043	.044	.052	.064	.076	.091	.102	.103	.099	.083
Nov	30.113	.111	.107	.105	.104	.108	.120	.136	.152	.163	.163	.155	.133
Dec	30.113	.110	.110	.109	.109	.109	.123	.135	.152	.164	.168	.156	.132
Year	30.046	.043	.038	.036	.036	.041	.052	.065	.075	.083	.087	.083	.070

HAVRE, MONT.

[λ = 48° 34′ N.; φ = 109° 40′ W.]

Jan	27.316	.312	.309	.305	.306	.299	.289	.287	.307	.324	.339	.342	.337
Feb	27.490	.492	.493	.491	.484	.481	.483	.482	.486	.490	.496	.497	.500
Mar	27.317	.318	.317	.315	.309	.306	.307	.305	.309	.315	.318	.320	.319
Apr	27.341	.345	.346	.342	.342	.345	.349	.358	.367	.368	.369	.370	.358
May	27.289	.292	.295	.296	.297	.300	.304	.308	.311	.312	.309	.303	.294
June ...	27.391	.391	.391	.390	.392	.396	.399	.401	.404	.407	.405	.399	.391
July	27.352	.355	.358	.357	.360	.364	.371	.376	.380	.380	.375	.372	.369
Aug	27.346	.352	.359	.360	.362	.365	.370	.375	.379	.384	.379	.376	.367
Sept	27.289	.286	.288	.286	.284	.284	.287	.291	.295	.302	.306	.305	.298
Oct.	27.452	.455	.458	.458	.457	.455	.456	.457	.460	.467	.473	.471	.467
Nov	27.345	.343	.342	.340	.341	.338	.341	.343	.353	.361	.370	.372	.374
Dec	27.240	.237	.233	.235	.241	.240	.240	.237	.243	.246	.253	.256	.249
Year	27.347	.348	.349	.348	.348	.348	.350	.352	.358	.363	.366	.365	.360

KANSAS CITY, MO.

[λ = 39° 5′ N.; φ = 94° 37′ W.]

Jan	29.050	.047	.049	.051	.052	.045	.045	.052	.061	.081	.089	.089	.065
Feb	29.219	.213	.210	.206	.203	.202	.207	.209	.216	.222	.226	.230	.225
Mar	29.018	.012	.013	.005	.004	.013	.025	.035	.051	.059	.063	.062	.056
Apr	28.941	.937	.930	.929	.927	.931	.945	.958	.965	.970	.972	.969	.958
May	28.976	.976	.977	.979	.981	.993	.002	.011	.015	.016	.014	.010	.996
June ...	29.029	.027	.027	.029	.037	.044	.052	.061	.069	.067	.064	.061	.053
July	29.008	.005	.004	.005	.012	.019	.032	.039	.045	.045	.044	.040	.034
Aug	28.977	.974	.975	.979	.980	.984	.992	.004	.011	.012	.016	.011	.998
Sept	29.001	.003	.003	.005	.011	.016	.028	.035	.042	.044	.039	.037	.028
Oct.	29.128	.133	.135	.134	.136	.142	.148	.154	.169	.177	.175	.173	.155
Nov	29.083	.078	.081	.084	.085	.087	.092	.099	.107	.114	.116	.111	.092
Dec	29.010	.999	.005	.005	.003	.003	.014	.019	.028	.041	.051	.046	.017
Year	29.037	.034	.034	.034	.036	.040	.048	.056	.065	.071	.072	.070	.056

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

EASTPORT, ME.

[H = 76 ft.; gravity correction, 0; local time, 32m fast.

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1895.
.862	.861	.859	.862	.863	.868	.868	.869	.866	.865	.860	.878	.029	.710	Jan.
.609	.606	.604	.613	.620	.630	.634	.638	.636	.639	.637	.640	.795	.504	Feb.
.731	.726	.728	.734	.740	.754	.759	.765	.765	.760	.758	.753	.886	.610	Mar.
.914	.909	.907	.907	.910	.925	.934	.940	.943	.944	.942	.929	.048	.807	Apr.
.899	.892	.888	.887	.889	.895	.899	.905	.906	.904	.904	.910	.996	.833	May.
.968	.964	.962	.961	.966	.972	.979	.984	.986	.985	.982	.979	.052	.900	June.
.932	.830	.829	.830	.831	.836	.843	.848	.850	.850	.845	.842	.895	.788	July.
.797	.791	.789	.788	.792	.800	.805	.810	.809	.807	.805	.804	.877	.718	Aug.
.866	.861	.861	.865	.871	.882	.891	.896	.898	.897	.900	.893	.990	.796	Sept.
.854	.852	.854	.862	.867	.874	.882	.891	.894	.895	.895	.877	.008	.744	Oct.
.026	.029	.031	.040	.044	.048	.052	.055	.053	.049	.047	.041	.237	.841	Nov.
.963	.967	.970	.980	.992	.995	.995	.985	.980	.970	.960	.977	.146	.789	Dec.
.860	.857	.857	.861	.865	.873	.878	.882	.882	.880	.878	.877	.997	.753	Year.

GALVESTON, TEX.

[H = 42 ft.; gravity correction, —.04; local time, 1h 19m slow.

.042	.025	.016	.015	.017	.021	.031	.040	.047	.054	.049	.049	.144	.954	Jan.
.195	.174	.164	.161	.163	.171	.180	.188	.200	.205	.206	.205	.297	.110	Feb.
.061	.044	.027	.021	.021	.026	.031	.041	.054	.060	.059	.052	.140	.973	Mar.
.008	.990	.973	.961	.957	.958	.964	.975	.984	.990	.991	.992	.051	.934	Apr.
.980	.966	.948	.940	.936	.939	.945	.956	.968	.978	.980	.967	.021	.916	May.
.030	.019	.009	.003	.997	.996	.996	.003	.011	.019	.020	.017	.057	.977	June.
.027	.017	.005	.996	.987	.987	.992	.995	.003	.012	.016	.013	.051	.973	July.
.981	.963	.950	.942	.935	.932	.939	.949	.957	.964	.965	.967	.012	.920	Aug.
.012	.997	.985	.981	.981	.985	.989	.001	.010	.012	.009	.007	.053	.968	Sept.
.061	.042	.032	.030	.028	.036	.046	.054	.060	.062	.057	.059	.118	.002	Oct.
.108	.092	.085	.085	.085	.090	.099	.106	.112	.117	.115	.115	.191	.044	Nov.
.102	.090	.085	.085	.084	.098	.111	.124	.132	.138	.135	.120	.212	.035	Dec.
.051	.035	.023	.018	.016	.020	.027	.036	.045	.051	.050	.047	.112	.984	Year.

HAVRE, MONT.

[H = 2,477 ft.; gravity correction, +.01; local time, 2h 19m slow.]

.322	.307	.301	.300	.299	.295	.293	.297	.304	.305	.309	.309	.445	.182	Jan.
.490	.476	.461	.457	.451	.453	.454	.464	.474	.482	.491	.480	.613	.342	Feb.
.308	.295	.285	.281	.278	.277	.281	.287	.296	.305	.309	.303	.445	.171	Mar.
.345	.333	.321	.308	.300	.294	.296	.299	.313	.328	.331	.336	.441	.221	Apr.
.282	.271	.262	.255	.250	.248	.247	.259	.265	.279	.285	.284	.381	.181	May.
.386	.374	.368	.362	.359	.358	.358	.364	.368	.380	.383	.384	.448	.322	June.
.361	.353	.346	.337	.328	.322	.320	.324	.332	.344	.354	.354	.414	.285	July.
.351	.339	.328	.317	.306	.299	.298	.301	.314	.328	.337	.346	.429	.252	Aug.
.290	.280	.269	.264	.261	.262	.264	.272	.279	.286	.289	.284	.407	.172	Sept.
.455	.440	.429	.425	.418	.417	.419	.424	.428	.435	.441	.447	.554	.334	Oct.
.361	.354	.346	.342	.342	.344	.346	.348	.351	.354	.355	.350	.472	.222	Nov.
.228	.207	.195	.193	.194	.196	.195	.198	.202	.205	.209	.224	.382	.050	Dec.
.348	.336	.326	.320	.316	.314	.314	.320	.327	.336	.341	.342	.453	.228	Year.

KANSAS CITY, MO.

[H = 963 ft.; gravity correction, —.01; local time 1h 18m slow.]

.041	.024	.027	.030	.033	.038	.049	.055	.057	.056	.056	.052	.202	.897	Jan.
.205	.184	.176	.178	.174	.177	.186	.191	.198	.201	.199	.202	.313	.092	Feb.
.034	.020	.005	.994	.990	.993	.002	.010	.018	.021	.019	.022	.137	.893	Mar.
.945	.935	.921	.911	.908	.908	.911	.919	.934	.942	.944	.938	.027	.848	Apr.
.979	.969	.955	.939	.932	.934	.937	.947	.965	.976	.978	.977	.058	.889	May.
.038	.026	.012	.000	.993	.992	.997	.000	.018	.032	.037	.032	.085	.968	June.
.023	.013	.004	.995	.986	.979	.981	.987	.998	.007	.012	.013	.077	.945	July.
.988	.978	.964	.954	.946	.943	.948	.955	.965	.972	.976	.979	.030	.918	Aug.
.012	.998	.982	.976	.973	.971	.975	.985	.994	.999	.002	.007	.092	.921	Sept.
.131	.113	.101	.093	.094	.097	.104	.109	.117	.123	.125	.132	.226	.031	Oct.
.067	.050	.043	.046	.047	.054	.061	.065	.069	.072	.073	.078	.173	.966	Nov.
.996	.985	.983	.988	.995	.005	.011	.016	.018	.022	.025	.012	.140	.883	Dec.
.038	.025	.014	.009	.006	.008	.014	.020	.029	.035	.037	.037	.130	.938	Year.

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

KEY WEST, FLA.

[λ = 24° 34′ N.; φ = 81° 49′ W.]

1895.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	30.098	.092	.084	.081	.079	.082	.093	.114	.133	.141	.137	.120	.093
Feb	30.132	.122	.114	.111	.113	.120	.134	.146	.159	.167	.166	.152	.132
Mar	30.102	.090	.081	.080	.084	.094	.108	.121	.129	.131	.131	.123	.107
Apr	30.036	.025	.016	.013	.015	.025	.039	.049	.058	.061	.056	.049	.041
May	30.020	.012	.005	.004	.007	.018	.031	.042	.048	.048	.044	.039	.030
June ...	30.062	.054	.047	.046	.048	.058	.069	.078	.083	.085	.086	.082	.072
July	30.096	.084	.075	.073	.074	.081	.094	.104	.109	.110	.111	.108	.098
Aug	30.026	.016	.007	.002	.004	.011	.024	.034	.045	.050	.050	.045	.033
Sept....	29.982	.972	.962	.958	.963	.974	.987	.998	.006	.013	.008	.998	.983
Oct....	29.931	.921	.914	.911	.915	.925	.938	.951	.963	.968	.964	.951	.931
Nov	30.046	.038	.030	.025	.026	.034	.047	.061	.077	.084	.080	.065	.043
Dec	30.099	.094	.089	.087	.085	.090	.102	.120	.137	.146	.141	.121	.096
Year....	30.052	.043	.035	.033	.034	.043	.056	.068	.079	.084	.081	.071	.055

MARQUETTE, MICH.

[λ = 46° 34′ N.; φ = 87° 24′ W.]

Jan	29.097	.100	.107	.107	.098	.094	.096	.099	.101	.102	.103	.096	.080
Feb	29.202	.204	.201	.195	.193	.190	.188	.189	.185	.185	.188	.186	.177
Mar	29.176	.179	.179	.175	.181	.181	.184	.188	.189	.193	.193	.190	.188
Apr	29.240	.237	.233	.232	.234	.238	.248	.256	.255	.259	.263	.268	.263
May	29.161	.156	.155	.155	.159	.161	.168	.176	.174	.171	.166	.160	.153
June ...	29.192	.191	.196	.197	.203	.209	.214	.218	.221	.221	.219	.216	.209
July	29.185	.180	.178	.181	.186	.190	.197	.200	.201	.197	.197	.196	.195
Aug	29.102	.101	.100	.097	.103	.107	.114	.115	.112	.112	.111	.108	.105
Sept....	29.108	.113	.113	.115	.119	.123	.129	.130	.128	.129	.126	.115	.106
Oct....	29.124	.120	.115	.115	.117	.123	.127	.135	.140	.142	.142	.146	.139
Nov	29.241	.236	.237	.230	.229	.229	.233	.237	.240	.245	.246	.238	.221
Dec	29.104	.100	.103	.097	.089	.087	.087	.087	.091	.102	.109	.107	.089
Year....	29.161	.160	.160	.158	.159	.161	.165	.169	.170	.172	.172	.169	.160

MEMPHIS, TENN.

[λ = 35° 9′ N.; φ = 90° 3′ W.]

Jan	29.683	.684	.686	.685	.681	.681	.687	.696	.706	.715	.719	.712	.683
Feb	29.834	.830	.827	.827	.827	.833	.841	.849	.860	.870	.875	.874	.855
Mar	29.649	.656	.655	.651	.653	.661	.673	.685	.699	.705	.709	.703	.688
Apr	29.565	.562	.560	.558	.558	.565	.580	.589	.597	.604	.606	.602	.593
May	29.636	.624	.619	.617	.625	.636	.650	.662	.667	.671	.672	.669	.656
June ...	29.637	.634	.634	.636	.643	.652	.664	.674	.683	.685	.683	.675	.662
July	29.605	.599	.593	.594	.600	.609	.621	.633	.641	.644	.646	.643	.635
Aug	29.578	.571	.567	.566	.569	.580	.594	.601	.611	.615	.616	.609	.596
Sept....	29.638	.636	.637	.637	.643	.650	.663	.672	.685	.692	.693	.687	.672
Oct....	29.710	.706	.706	.705	.708	.713	.724	.735	.750	.757	.758	.751	.731
Nov	29.733	.730	.729	.730	.728	.733	.740	.747	.763	.773	.778	.771	.748
Dec	29.669	.666	.667	.669	.667	.665	.677	.686	.698	.711	.721	.708	.680
Year....	29.661	.658	.657	.656	.658	.665	.676	.686	.697	.704	.706	.700	.683

NEW ORLEANS, LA.

[λ = 29° 58′ N.; φ = 90° 4′ W.]

Jan	30.033	.030	.027	.023	.016	.015	.021	.033	.052	.066	.066	.051	.029
Feb	30.159	.154	.151	.147	.147	.150	.160	.168	.185	.195	.194	.186	.165
Mar	30.034	.026	.020	.017	.019	.031	.042	.054	.066	.077	.079	.073	.057
Apr	29.961	.954	.950	.949	.951	.963	.975	.983	.996	.002	.998	.990	.977
May	29.999	.991	.989	.989	.990	.999	.010	.018	.026	.027	.029	.025	.014
June ...	30.003	.999	.997	.999	.007	.017	.026	.032	.036	.035	.032	.028	.018
July	30.006	.002	.999	.002	.012	.021	.031	.034	.037	.041	.039	.036	.024
Aug	29.944	.938	.934	.931	.935	.947	.959	.968	.977	.981	.981	.977	.969
Sept....	29.982	.979	.974	.974	.978	.987	.997	.010	.019	.026	.025	.020	.002
Oct....	30.025	.021	.017	.019	.025	.033	.042	.055	.070	.075	.071	.062	.040
Nov	30.109	.106	.103	.102	.106	.113	.124	.135	.149	.157	.154	.143	.117
Dec	30.104	.102	.104	.103	.102	.110	.122	.133	.151	.162	.161	.143	.114
Year....	30.030	.025	.022	.021	.024	.032	.042	.052	.064	.070	.064	.061	.044

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

KEY WEST, FLA.

[H = 22 ft.; gravity correction, —.05; local time, 27m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1895.
.073	.065	.064	.069	.075	.085	.096	.104	.107	.107	.100	.096	.149	.049	Jan.
.112	.101	.097	.098	.106	.115	.125	.132	.138	.140	.135	.128	.199	.065	Feb.
.092	.073	.067	.068	.074	.084	.095	.105	.111	.112	.109	.099	.149	.050	Mar.
.026	.008	.995	.994	.998	.008	.025	.038	.046	.051	.046	.030	.086	.973	Apr.
.016	.995	.980	.973	.976	.992	.009	.020	.029	.032	.028	.017	.054	.968	May
.061	.043	.033	.027	.031	.044	.058	.067	.073	.075	.071	.061	.095	.021	June.
.087	.072	.058	.055	.059	.073	.088	.096	.102	.106	.104	.088	.122	.049	July.
.020	.004	.990	.988	.993	.005	.020	.029	.036	.038	.033	.021	.059	.984	Aug.
.963	.944	.937	.940	.945	.957	.973	.984	.988	.986	.981	.975	.018	.931	Sept.
.916	.905	.901	.905	.914	.924	.940	.949	.955	.952	.946	.933	.981	.885	Oct.
.025	.016	.012	.015	.025	.035	.049	.058	.062	.061	.054	.045	.095	.999	Nov.
.077	.071	.071	.077	.086	.096	.106	.114	.121	.120	.115	.103	.165	.052	Dec.
.039	.025	.017	.017	.024	.035	.049	.058	.064	.065	.060	.050	.098	.002	Year.

MARQUETTE, MICH.

[H = 734 ft.; gravity correction, —.02; local time, 49m slow.]

.068	.071	.080	.090	.093	.100	.105	.110	.111	.106	.105	.097	.235	.945	Jan.
.166	.159	.163	.171	.176	.182	.184	.183	.184	.185	.186	.184	.324	.051	Feb.
.178	.170	.166	.167	.172	.176	.178	.185	.187	.189	.187	.181	.297	.050	Mar.
.260	.256	.251	.250	.250	.252	.256	.261	.261	.256	.354	.251	.329	.159	Apr.
.145	.139	.136	.141	.141	.139	.140	.147	.151	.153	.156	.154	.232	.076	May.
.202	.195	.196	.199	.200	.197	.201	.204	.209	.206	.207	.205	.278	.127	June.
.186	.182	.181	.181	.182	.181	.180	.183	.186	.187	.187	.187	.267	.106	July.
.104	.099	.099	.098	.096	.099	.104	.111	.111	.110	.109	.105	.185	.026	Aug.
.095	.084	.085	.085	.085	.085	.090	.096	.100	.102	.096	.107	.123	.969	Sept.
.128	.121	.122	.127	.130	.138	.136	.139	.135	.134	.129	.130	.268	.966	Oct.
.215	.210	.218	.223	.229	.237	.236	.237	.239	.241	.241	.233	.....	.....	Nov.
.085	.086	.097	.107	.115	.116	.113	.111	.111	.109	.103	.100	.....	.....	Dec.
.153	.148	.150	.153	.156	.158	.160	.164	.165	.165	.163	.161	.....	.....	Year.

MEMPHIS, TENN.

[H = 399 ft.; gravity correction, —.03; local time, 1h slow.]

.659	.649	.650	.653	.659	.668	.673	.677	.681	.682	.680	.681	.785	.573	Jan.
.829	.809	.799	.797	.800	.801	.805	.810	.812	.816	.817	.829	.917	.738	Feb.
.662	.644	.634	.626	.626	.627	.631	.639	.649	.654	.656	.660	.764	.550	Mar.
.581	.563	.550	.541	.537	.540	.546	.558	.564	.570	.571	.569	.639	.506	Apr.
.645	.631	.618	.607	.600	.598	.604	.615	.627	.635	.636	.634	.697	.572	May.
.646	.627	.615	.603	.598	.599	.604	.618	.629	.637	.635	.640	.690	.589	June.
.622	.608	.596	.588	.585	.593	.595	.600	.605	.607	.608	.611	.664	.556	July.
.584	.565	.549	.542	.539	.540	.548	.562	.571	.576	.579	.576	.620	.531	Aug.
.650	.634	.621	.614	.611	.613	.618	.630	.640	.644	.641	.647	.704	.591	Sept.
.708	.690	.679	.676	.677	.683	.694	.699	.705	.707	.707	.712	.788	.638	Oct.
.723	.708	.701	.698	.701	.710	.719	.726	.731	.731	.732	.733	.824	.639	Nov.
.654	.640	.635	.637	.641	.650	.661	.668	.670	.680	.679	.671	.780	.564	Dec.
.664	.647	.637	.632	.631	.635	.642	.650	.657	.662	.662	.664	.739	.587	Year.

NEW ORLEANS, LA.

[H = 54 ft.; gravity correction, —.04; local time, 1h slow.]

.008	.997	.996	.001	.006	.015	.028	.037	.042	.039	.032	.028	.111	.955	Jan.
.140	.122	.113	.115	.121	.130	.136	.141	.151	.156	.154	.152	.242	.060	Feb.
.032	.015	.004	.998	.001	.008	.020	.026	.039	.043	.037	.034	.116	.951	Mar.
961	.943	.928	.920	.920	.926	.935	.951	.962	.968	.967	.960	.020	.898	Apr.
001	.991	.978	.972	.968	.971	.978	.994	.004	.006	.006	.999	.041	.955	May.
.006	.992	.984	.978	.976	.982	.989	.999	.009	.012	.010	.007	.047	.963	June.
.012	.000	.989	.979	.976	.983	.986	.996	.007	.012	.009	.010	.049	.969	July.
.951	.937	.927	.923	.921	.924	.929	.941	.947	.951	.949	.948	.990	.905	Aug.
.983	.969	.961	.954	.957	.961	.969	.983	.989	.991	.986	.986	.031	.946	Sept.
.017	.002	.995	.992	.997	.005	.013	.022	.029	.029	.028	.029	.086	.973	Oct.
.093	.079	.076	.073	.077	.085	.096	.108	.113	.115	.113	.110	.173	.048	Nov.
.089	.076	.072	.074	.078	.086	.103	.115	.120	.125	.119	.111	.200	.023	Dec.
.024	.010	.002	.998	.000	.006	.015	.026	.034	.037	.034	.031	.092	.970	Year.

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

NEW YORK, N. Y.

[λ=40° 43′ N.; φ=74° 0′ W.]

1895.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.
Jan	29.718	.720	.717	.708	.703	.709	.717	.727	.735	.737	.723	.703	.689
Feb	29.623	.622	.615	.614	.617	.622	.626	.638	.642	.646	.638	.626	.608
Mar	29.657	.652	.647	.648	.655	.667	.678	.680	.682	.683	.681	.674	.661
Apr	29.696	.691	.687	.685	.690	.698	.710	.713	.714	.714	.709	.702	.691
May	29.734	.730	.729	.728	.733	.742	.752	.756	.755	.753	.747	.740	.731
June	29.744	.740	.738	.739	.746	.754	.762	.766	.767	.767	.761	.755	.747
July	29.636	.631	.628	.630	.635	.641	.653	.654	.652	.652	.649	.642	.634
Aug	29.630	.627	.623	.623	.628	.638	.647	.652	.654	.655	.645	.638	.627
Sept	29.715	.712	.711	.712	.720	.731	.738	.745	.747	.746	.736	.728	.712
Oct	29.703	.700	.701	.700	.704	.710	.721	.728	.726	.721	.706	.694	.677
Nov	29.809	.810	.809	.809	.812	.817	.829	.841	.848	.851	.842	.827	.814
Dec	29.772	.774	.776	.776	.776	.789	.801	.816	.827	.830	.813	.793	.776
Year	29.703	.701	.698	.698	.702	.710	.720	.726	.729	.730	.721	.710	.697

PHILADELPHIA, PA.

[λ=39° 57′ N.; φ=75° 9′ W.]

Jan	29.926	.926	.928	.923	.918	.924	.933	.947	.959	.962	.948	.926	.911
Feb	29.886	.881	.877	.878	.881	.885	.891	.899	.903	.906	.904	.886	.866
Mar	29.876	.875	.873	.875	.881	.885	.898	.907	.916	.918	.915	.906	.893
Apr	29.912	.906	.904	.905	.908	.917	.926	.926	.927	.927	.922	.912	.903
May	29.953	.948	.949	.948	.954	.964	.973	.980	.980	.978	.974	.962	.950
June	29.948	.947	.946	.948	.955	.965	.970	.976	.977	.976	.970	.962	.948
July	29.853	.849	.848	.851	.856	.863	.870	.877	.874	.872	.868	.862	.851
Aug	29.850	.848	.843	.842	.846	.855	.865	.870	.875	.876	.869	.857	.843
Sept	29.940	.937	.933	.937	.944	.952	.964	.971	.977	.970	.964	.950	.934
Oct	29.935	.934	.929	.932	.939	.945	.954	.967	.968	.965	.951	.933	.912
Nov	30.038	.041	.042	.042	.048	.053	.064	.078	.086	.087	.074	.055	.040
Dec	30.004	.011	.013	.013	.016	.026	.038	.052	.065	.067	.051	.025	.010
Year	29.927	.925	.924	.924	.929	.936	.946	.954	.959	.959	.951	.936	.922

PITTSBURG, PA.

[λ=40° 32′ N.; φ=80° 2′ W.]

Jan	29.105	.107	.115	.116	.115	.114	.121	.126	.129	.133	.126	.118	.095
Feb	29.170	.170	.168	.165	.165	.167	.173	.182	.186	.186	.185	.178	.164
Mar	29.114	.118	.119	.123	.128	.136	.144	.147	.150	.145	.137	.128	.117
Apr	29.108	.106	.103	.104	.108	.113	.124	.137	.137	.136	.131	.124	.113
May	29.178	.177	.175	.178	.184	.190	.200	.211	.211	.206	.195	.185	.169
June	29.185	.187	.189	.192	.197	.205	.214	.222	.222	.215	.207	.197	.188
July	29.129	.128	.128	.128	.131	.137	.146	.153	.154	.150	.145	.140	.132
Aug	29.099	.099	.099	.100	.102	.109	.117	.128	.129	.129	.125	.117	.107
Sept	29.176	.177	.175	.179	.182	.190	.201	.212	.215	.214	.208	.198	.185
Oct	29.172	.172	.168	.172	.177	.184	.195	.204	.207	.201	.192	.179	.158
Nov	29.236	.241	.244	.244	.247	.255	.261	.269	.274	.278	.270	.254	.230
Dec	29.186	.189	.193	.190	.188	.190	.195	.199	.204	.209	.198	.177	.158
Year	29.155	.156	.156	.158	.160	.166	.174	.182	.185	.184	.177	.166	.151

PORTLAND, OREG.

[λ=45° 32′ N.; φ=122° 43′ W.]

Jan	29.753	.755	.752	.751	.762	.766	.765	.758	.758	.758	.769	.779	.786
Feb	30.016	.017	.017	.018	.018	.015	.013	.015	.014	.017	.027	.032	.038
Mar	29.839	.838	.838	.842	.845	.845	.846	.846	.848	.855	.863	.868	.868
Apr	29.910	.913	.913	.911	.909	.906	.905	.908	.918	.923	.926	.927	.927
May	29.861	.860	.857	.854	.854	.851	.850	.853	.858	.865	.869	.867	.866
June	29.973	.978	.981	.983	.985	.988	.992	.996	.002	.006	.008	.005	.997
July	29.876	.881	.887	.888	.890	.894	.901	.906	.912	.914	.914	.912	.913
Aug	29.845	.852	.859	.862	.863	.865	.871	.875	.888	.892	.893	.892	.889
Sept	29.868	.868	.868	.867	.866	.865	.865	.870	.879	.886	.891	.896	.894
Oct	29.925	.929	.933	.937	.941	.942	.945	.947	.951	.956	.964	.966	.963
Nov	29.988	.989	.991	.992	.990	.989	.986	.985	.986	.994	.998	.000	.007
Dec	29.942	.943	.937	.936	.940	.940	.926	.927	.924	.924	.929	.938	.947
Year	29.900	.902	.903	.903	.905	.906	.905	.907	.912	.916	.921	.924	.925

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

NEW YORK, N. Y.

[H = 314 ft.; gravity correction, —.01; local time, 4m fast.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1895.
.687	.692	.700	.709	.718	.729	.737	.740	.737	.733	.727	.717	.850	.579	Jan.
.596	.595	.592	.595	.603	.608	.612	.616	.616	.609	.603	.616	.757	.464	Feb.
.647	.645	.646	.653	.658	.660	.667	.671	.676	.677	.676	.664	.799	.520	Mar.
.681	.670	.671	.681	.682	.688	.699	.708	.710	.711	.707	.696	.812	.585	Apr.
.721	.708	.704	.703	.704	.710	.717	.726	.730	.731	.731	.730	.798	.664	May.
.737	.728	.725	.724	.727	.730	.733	.745	.750	.747	.746	.745	.810	.682	June.
.626	.619	.614	.611	.613	.618	.624	.633	.638	.640	.640	.634	.695	.575	July.
.616	.605	.601	.606	.606	.612	.620	.628	.631	.633	.635	.628	.693	.563	Aug.
.702	.694	.690	.691	.694	.700	.707	.716	.720	.721	.720	.717	.798	.645	Sept.
.666	.660	.657	.664	.672	.676	.685	.693	.694	.691	.691	.693	.823	.567	Oct.
.805	.801	.804	.808	.815	.823	.830	.835	.838	.839	.837	.823	.945	.683	Nov.
.769	.768	.770	.772	.777	.777	.775	.773	.769	.760	.757	.783	.903	.621	Dec.
.688	.682	.681	.685	.689	.694	.700	.707	.709	.708	.706	.704	.807	.596	Year.

PHILADELPHIA, PA.

[H = 117 ft.; gravity correction, —.01.]

.910	.915	.919	.930	.939	.947	.952	.955	.951	.945	.936	.935	.070	.784	Jan.
.852	.847	.845	.849	.852	.860	.862	.865	.864	.861	.862	.873	.016	.729	Feb.
.883	.876	.871	.868	.868	.874	.881	.886	.890	.891	.890	.887	.019	.733	Mar.
.892	.882	.878	.881	.883	.891	.908	.920	.922	.924	.922	.908	.023	.800	Apr.
.940	.928	.922	.921	.921	.926	.934	.946	.952	.953	.951	.950	.022	.881	May.
.937	.926	.920	.916	.920	.926	.936	.949	.953	.952	.951	.949	.012	.882	June.
.842	.830	.823	.821	.827	.833	.839	.849	.856	.861	.860	.851	.911	.790	July.
.832	.816	.810	.810	.813	.822	.836	.846	.852	.855	.855	.845	.910	.781	Aug.
.921	.910	.907	.909	.912	.925	.935	.941	.944	.945	.945	.940	.020	.869	Sept.
.898	.890	.889	.892	.899	.909	.917	.924	.924	.924	.925	.927	.056	.800	Oct.
.031	.028	.030	.034	.045	.051	.057	.061	.062	.061	.059	.053	.166	.920	Nov.
.002	.997	.998	.000	.003	.005	.004	.999	.995	.995	.991	.016	.127	.864	Dec.
.912	.904	.901	.903	.907	.914	.922	.928	.930	.931	.929	.928	.029	.819	Year.

PITTSBURG, PA.

[H = 842 ft.; gravity correction, —.01; local time, 20m slow.]

.081	.080	.087	.091	.098	.108	.116	.118	.117	.112	.108	.110	.250	.947	Jan.
.148	.140	.139	.141	.147	.149	.153	.152	.149	.149	.151	.161	.286	.031	Feb.
.102	.094	.089	.089	.093	.096	.102	.109	.111	.115	.115	.118	.244	.973	Mar.
.101	.088	.082	.082	.086	.090	.102	.112	.116	.117	.119	.110	.189	.033	Apr.
.156	.143	.134	.128	.129	.136	.146	.155	.165	.171	.173	.171	.249	.097	May.
.176	.163	.155	.151	.149	.153	.160	.167	.175	.181	.182	.185	.250	.122	June.
.121	.108	.101	.099	.101	.105	.107	.116	.120	.125	.127	.126	.188	.061	July.
.091	.077	.067	.063	.067	.070	.077	.085	.091	.098	.102	.098	.160	.034	Aug.
.173	.161	.153	.150	.149	.151	.157	.163	.167	.173	.175	.179	.254	.100	Sept.
.144	.137	.135	.136	.143	.149	.157	.163	.166	.167	.166	.169	.268	.059	Oct.
.220	.218	.219	.225	.230	.239	.243	.248	.248	.246	.246	.245	.348	.133	Nov.
.148	.149	.148	.148	.155	.163	.165	.166	.169	.173	.174	.177	.277	.066	Dec.
.138	.130	.126	.125	.129	.134	.140	.146	.150	.152	.153	.154	.247	.055	Year.

PORTLAND, OREG.

[H = 157 ft.; gravity correction, 0; local time, 3h 11m slow.]

.778	.768	.758	.756	.755	.750	.747	.748	.749	.749	.749	.759	.864	.640	Jan.
.038	.025	.015	.005	.000	.997	.994	.997	.002	.006	.011	.014	.094	.931	Feb.
.864	.853	.840	.824	.816	.810	.806	.808	.812	.819	.823	.838	.932	.727	Mar.
.924	.913	.906	.896	.889	.889	.886	.885	.887	.901	.908	.907	.000	.803	Apr.
.864	.859	.853	.848	.841	.839	.838	.838	.843	.854	.864	.854	.936	.772	May.
.991	.981	.972	.962	.948	.941	.936	.936	.939	.948	.963	.975	.026	.909	June.
.906	.896	.888	.874	.865	.854	.848	.848	.851	.858	.872	.885	.941	.820	July.
.879	.865	.852	.836	.824	.815	.811	.809	.813	.825	.835	.855	.907	.785	Aug.
.887	.879	.868	.856	.850	.845	.842	.845	.853	.859	.863	.868	.944	.786	Sept.
.958	.937	.923	.911	.905	.899	.896	.904	.912	.918	.926	.933	.988	.866	Oct.
.008	.997	.986	.977	.975	.971	.970	.975	.977	.980	.982	.987	.077	.886	Nov.
.945	.935	.923	.918	.922	.923	.923	.928	.929	.936	.939	.932	.058	.802	Dec.
.920	.909	.899	.889	.882	.878	.875	.877	.881	.888	.895	.901	.981	.811	Year.

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

ST. LOUIS, MO.

[λ=38° 38′ N.; φ=90° 12′ W.]

1895.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	29.471	.472	.479	.480	.474	.469	.472	.484	.497	.509	.504	.491	.466
Feb	29.633	.630	.628	.625	.624	.626	.631	.635	.641	.650	.651	.647	.637
Mar	29.446	.447	.441	.436	.436	.445	.452	.464	.473	.477	.478	.477	.469
Apr	29.371	.365	.361	.360	.361	.369	.381	.391	.392	.395	.395	.385	.374
May	29.429	.422	.418	.424	.428	.437	.448	.460	.466	.467	.467	.464	.453
June ...	29.453	.454	.449	.452	.459	.469	.477	.484	.488	.486	.486	.479	.468
July....	29.420	.415	.412	.416	.423	.434	.444	.455	.456	.455	.455	.453	.446
Aug	29.392	.392	.389	.389	.393	.401	.413	.419	.425	.430	.431	.424	.416
Sept....	29.455	.459	.460	.464	.472	.481	.492	.500	.504	.509	.505	.498	.481
Oct.....	29.532	.536	.537	.537	.544	.553	.562	.574	.584	.585	.580	.571	.551
Nov	29.520	.517	.520	.517	.516	.522	.532	.544	.552	.561	.562	.555	.538
Dec	29.421	.419	.423	.424	.417	.420	.428	.440	.447	.457	.461	.448	.428
Year....	29.462	.461	.460	.460	.462	.469	.478	.488	.494	.498	.498	.491	.477

ST. PAUL, MINN.

[λ=44° 58′ N.; φ=93° 3′ W.]

Jan	29.102	.099	.102	.110	.109	.104	.100	.107	.111	.124	.131	.133	.115
Feb	29.244	.243	.244	.242	.238	.238	.234	.230	.233	.236	.237	.236	.225
Mar	29.099	.101	.109	.105	.105	.109	.115	.120	.122	.124	.123	.123	.116
Apr	29.077	.080	.079	.085	.088	.095	.106	.117	.119	.119	.114	.110	.096
May	29.038	.038	.034	.036	.039	.044	.050	.055	.056	.053	.045	.041	.032
June ...	29.092	.088	.089	.089	.094	.099	.108	.115	.117	.114	.105	.102	.096
July....	29.094	.096	.093	.096	.102	.111	.117	.120	.124	.120	.115	.112	.105
Aug	29.038	.035	.035	.033	.035	.041	.046	.055	.058	.058	.055	.047	.042
Sept....	29.011	.009	.000	.004	.007	.014	.022	.029	.027	.030	.029	.026	.016
Oct.....	29.113	.115	.120	.121	.125	.130	.135	.140	.146	.150	.145	.142	.131
Nov	29.145	.146	.149	.147	.145	.144	.145	.148	.154	.157	.160	.158	.146
Dec	29.026	.024	.032	.038	.035	.032	.035	.037	.041	.054	.065	.064	.047
Year....	29.090	.090	.090	.092	.094	.097	.101	.106	.109	.112	.110	.108	.097

SALT LAKE CITY, UTAH.

[λ=40° 46′ N.; φ=111° 54′ W.]

Jan	25.606	.605	.599	.599	.606	.600	.591	.589	.592	.600	.607	.617	.616
Feb	25.744	.750	.747	.746	.742	.743	.741	.743	.746	.752	.762	.770	.771
Mar	25.628	.630	.632	.635	.629	.630	.635	.641	.647	.653	.657	.658	.655
Apr	25.647	.650	.648	.648	.652	.655	.658	.668	.678	.683	.682	.683	.671
May	25.579	.580	.583	.583	.584	.588	.593	.600	.607	.613	.614	.617	.611
June ...	25.667	.673	.673	.675	.677	.679	.688	.697	.706	.712	.715	.715	.711
July....	25.631	.633	.632	.632	.635	.639	.647	.658	.669	.675	.680	.681	.676
Aug	25.622	.630	.631	.632	.633	.637	.644	.657	.669	.678	.681	.681	.675
Sept....	25.628	.632	.641	.644	.643	.645	.651	.660	.669	.677	.683	.684	.677
Oct.....	25.721	.720	.720	.726	.727	.730	.734	.738	.742	.749	.758	.756	.749
Nov	25.723	.722	.713	.714	.712	.708	.711	.709	.714	.719	.726	.727	.726
Dec	25.779	.779	.773	.775	.779	.774	.768	.770	.773	.775	.786	.796	.796
Year....	25.665	.667	.666	.667	.668	.669	.672	.678	.684	.690	.696	.699	.694

SAN DIEGO, CAL.

[λ=32° 43′ N.; φ=117° 10′ W.]

Jan	29.969	.968	.962	.962	.961	.955	.950	.947	.954	.962	.980	.993	.001
Feb	30.029	.029	.023	.019	.014	.010	.007	.009	.016	.028	.039	.046	.049
Mar	29.995	.992	.989	.985	.978	.971	.971	.976	.983	.998	.008	.016	.018
Apr	29.994	.992	.989	.978	.969	.965	.962	.963	.980	.989	.995	.000	.001
May	29.903	.899	.892	.884	.874	.869	.870	.873	.886	.894	.899	.902	.906
June ...	29.896	.893	.888	.879	.872	.869	.869	.874	.887	.898	.904	.906	.907
July....	29.899	.899	.893	.884	.877	.876	.877	.883	.893	.902	.908	.909	.912
Aug	29.883	.876	.870	.860	.846	.838	.831	.829	.830	.839	.855	.863	.864
Sept....	29.847	.848	.844	.838	.832	.830	.828	.822	.846	.855	.862	.866	.864
Oct.....	29.900	.900	.898	.896	.887	.882	.883	.887	.895	.908	.920	.923	.920
Nov	29.958	.958	.955	.954	.950	.945	.941	.939	.955	.963	.973	.980	.985
Dec	30.058	.056	.051	.047	.046	.043	.039	.040	.050	.063	.076	.089	.088
Year....	29.944	.942	.938	.932	.926	.921	.919	.920	.931	.942	.952	.958	.960

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

ST. LOUIS, MO.

[H=571 ft.; gravity correction, —.02; local time, 1h 1m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1895.
.443	.438	.444	.447	.452	.464	.472	.475	.477	.478	.474	.472	.614	.329	Jan.
.613	.600	.599	.594	.595	.594	.606	.607	.609	.612	.612	.621	.731	.510	Feb.
.451	.439	.429	.423	.419	.422	.428	.441	.451	.455	.453	.448	.555	.328	Mar.
.362	.349	.337	.335	.339	.345	.354	.367	.375	.378	.379	.367	.440	.300	Apr.
.440	.427	.411	.404	.401	.396	.403	.411	.422	.427	.432	.432	.499	.352	May.
.456	.443	.433	.425	.421	.423	.427	.435	.445	.453	.454	.455	.504	.401	June.
.433	.424	.411	.405	.399	.401	.403	.408	.417	.423	.424	.426	.485	.362	July.
.403	.389	.378	.368	.362	.360	.363	.376	.385	.391	.396	.395	.449	.339	Aug.
.462	.446	.434	.427	.424	.424	.431	.442	.451	.455	.456	.464	.533	.390	Sept.
.528	.513	.505	.502	.500	.507	.512	.516	.522	.528	.528	.538	.633	.434	Oct.
.519	.504	.500	.499	.501	.503	.508	.517	.517	.515	.513	.523	.615	.406	Nov.
.410	.403	.406	.411	.416	.424	.434	.435	.433	.433	.431	.428	.544	.298	Dec.
.460	.448	.441	.437	.436	.439	.445	.452	.459	.462	.463	.464	.550	.371	Year.

ST. PAUL, MINN.

[H=850 ft.; gravity correction, 0; local time, 1h 12m slow.

.097	.088	.093	.096	.104	.107	.115	.117	.116	.113	.113	.109	.265	.947	Jan.
.213	.201	.201	.202	.205	.210	.214	.215	.215	.222	.224	.225	.355	.086	Feb.
.105	.089	.078	.074	.074	.077	.084	.088	.097	.103	.104	.102	.226	.973	Mar.
.084	.073	.062	.048	.051	.047	.052	.062	.070	.072	.073	.082	.169	.988	Apr.
.022	.013	.003	.997	.997	.992	.001	.011	.022	.031	.034	.028	.120	.935	May.
.091	.087	.080	.074	.067	.061	.065	.073	.086	.096	.099	.091	.155	.024	June.
.100	.089	.077	.066	.064	.063	.064	.071	.085	.088	.092	.094	.172	.010	July.
.032	.023	.014	.004	.000	.001	.010	.025	.033	.033	.038	.033	.110	.951	Aug.
.002	.988	.977	.967	.963	.967	.978	.994	.998	.004	.007	.003	.118	.880	Sept.
.115	.102	.095	.091	.093	.096	.101	.107	.112	.113	.114	.119	.242	.965	Oct.
.130	.121	.118	.119	.126	.131	.136	.139	.142	.142	.141	.141	.244	.037	Nov.
.028	.019	.021	.024	.027	.031	.034	.033	.029	.027	.026	.035	.178	.881	Dec.
.085	.074	.068	.064	.064	.065	.071	.078	.084	.087	.089	.088	.196	.973	Year.

SALT LAKE CITY, UTAH.

[H=4,345 ft.; gravity correction, —.01; local time, 2h 27m slow.]

.603	.578	.573	.578	.581	.587	.588	.594	.602	.604	.604	.597	.678	.515	Jan.
.761	.746	.735	.732	.732	.737	.742	.744	.745	.748	.751	.747	.827	.663	Feb.
.646	.631	.617	.608	.600	.594	.595	.603	.609	.614	.620	.628	.717	.530	Mar.
.662	.650	.644	.631	.629	.622	.621	.620	.627	.631	.637	.650	.732	.553	Apr.
.603	.591	.585	.571	.564	.557	.549	.547	.553	.565	.574	.584	.655	.502	May.
.705	.694	.685	.671	.662	.651	.649	.651	.655	.666	.674	.681	.741	.608	June.
.669	.652	.644	.631	.623	.611	.605	.605	.607	.620	.626	.641	.690	.585	July.
.661	.648	.635	.614	.605	.593	.588	.591	.601	.613	.616	.635	.691	.568	Aug.
.666	.650	.638	.624	.616	.609	.602	.600	.610	.617	.623	.641	.705	.567	Sept.
.738	.723	.713	.706	.704	.702	.706	.710	.716	.722	.725	.726	.782	.673	Oct.
.710	.691	.682	.682	.683	.684	.694	.701	.708	.714	.717	.708	.803	.620	Nov.
.778	.758	.748	.747	.752	.757	.760	.766	.770	.775	.776	.771	.875	.661	Dec.
.684	.668	.658	.650	.646	.642	.642	.644	.650	.657	.662	.667	.741	.587	Year.

SAN DIEGO, CAL.

[H=69 ft.; gravity correction, —.03; local time, 2h 49m slow.]

.988	.964	.947	.939	.938	.941	.943	.948	.955	.962	.964	.961	.028	.896	Jan.
.042	.023	.004	.989	.984	.983	.986	.992	.000	.010	.016	.014	.069	.964	Feb.
.015	.003	.988	.973	.969	.965	.962	.971	.977	.988	.995	.987	.036	.941	Mar.
.995	.989	.978	.966	.961	.957	.956	.960	.969	.982	.987	.978	.024	.936	Apr.
.904	.901	.897	.890	.882	.879	.877	.878	.885	.896	.902	.887	.927	.854	May.
.906	.901	.896	.889	.885	.879	.876	.878	.882	.889	.896	.888	.921	.858	June.
.911	.906	.899	.890	.881	.871	.868	.869	.875	.886	.894	.890	.925	.859	July.
.865	.858	.853	.847	.845	.845	.850	.865	.875	.881	.884	.856	.895	.819	Aug.
.853	.839	.826	.815	.810	.807	.808	.813	.824	.836	.840	.836	.874	.799	Sept.
.912	.895	.880	.869	.866	.863	.867	.877	.887	.898	.904	.892	.934	.851	Oct.
.974	.950	.956	.927	.926	.926	.931	.945	.952	.960	.965	.952	.011	.898	Nov.
.072	.041	.021	.014	.012	.012	.018	.029	.035	.045	.051	.046	.109	.988	Dec.
.953	.939	.927	.917	.913	.911	.912	.919	.926	.936	.942	.932	.979	.889	Year.

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

SAN FRANCISCO, CAL.

[λ=37° 48′ N.; φ=122° 26′ W.]

1895.	1h a.m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.
Jan	29.862	.863	.859	.859	.861	.860	.851	.845	.845	.854	.864	.879	.887
Feb	29.981	.984	.987	.988	.985	.982	.981	.979	.984	.989	.003	.010	.018
Mar	29.926	.926	.928	.931	.927	.915	.914	.920	.925	.937	.946	.955	.958
Apr	29.967	.966	.965	.962	.956	.952	.950	.954	.968	.982	.987	.991	.993
May....	29.882	.879	.875	.869	.865	.861	.859	.860	.874	.883	.888	.893	.893
June ...	29.830	.829	.825	.821	.816	.813	.819	.825	.835	.846	.852	.855	.854
July....	29.826	.825	.823	.816	.812	.810	.811	.818	.828	.841	.849	.852	.855
Aug	29.788	.788	.786	.782	.779	.776	.774	.782	.794	.803	.814	.815	.821
Sept....	29.818	.818	.812	.813	.810	.806	.808	.811	.824	.836	.847	.854	.858
Oct.....	29.849	.850	.848	.851	.849	.845	.846	.849	.855	.867	.879	.888	.891
Nov	29.936	.937	.937	.936	.935	.932	.932	.932	.938	.944	.958	.964	.969
Dec	30.081	.085	.078	.074	.075	.074	.068	.066	.075	.082	.095	.107	.119
Year....	29.896	.896	.894	.892	.889	.886	.884	.887	.895	.905	.915	.922	.926

SANTE FE, N. MEX.

[λ=35° 41′ N.; φ=105° 57′ W.]

Jan	23.180	.177	.175	.176	.178	.173	.166	.165	.166	.172	.179	.190	.184
Feb	23.249	.247	.243	.239	.233	.230	.231	.231	.236	.243	.251	.258	.258
Mar	23.229	.228	.227	.227	.221	.218	.220	.223	.230	.238	.244	.248	.246
Apr	23.267	.267	.267	.264	.263	.263	.266	.270	.279	.283	.287	.290	.284
May....	23.267	.268	.265	.262	.261	.260	.263	.269	.276	.283	.285	.285	.282
June ...	23.371	.373	.372	.372	.371	.373	.380	.389	.395	.402	.403	.403	.401
July....	23.406	.406	.405	.403	.401	.402	.405	.413	.418	.427	.426	.425	.422
Aug	23.420	.417	.416	.412	.411	.409	.411	.417	.423	.428	.432	.434	.427
Sept....	23.375	.376	.378	.378	.378	.380	.383	.393	.399	.405	.410	.412	.404
Oct.....	23.373	.372	.374	.371	.368	.368	.371	.376	.383	.394	.397	.398	.398
Nov	23.283	.283	.280	.280	.279	.278	.276	.278	.282	.289	.292	.297	.294
Dec	23.253	.250	.244	.247	.248	.245	.242	.242	.247	.252	.263	.274	.272
Year....	23.306	.305	.304	.303	.301	.300	.301	.306	.311	.318	.322	.326	.323

SAVANNAH, GA.

[λ=32° 5′ N.; φ=81° 5′ W.]

Jan	29.995	.997	.000	.001	.998	.006	.019	.036	.049	.058	.053	.031	.002
Feb	30.050	.047	.048	.047	.049	.057	.066	.074	.078	.075	.071	.061	.032
Mar	29.995	.995	.991	.991	.004	.015	.028	.040	.046	.046	.043	.030	.009
Apr	29.925	.920	.918	.919	.926	.935	.946	.953	.959	.961	.955	.944	.928
May....	29.966	.961	.963	.966	.975	.989	.002	.015	.018	.018	.012	.003	.988
June ...	29.970	.966	.964	.967	.974	.985	.998	.007	.012	.011	.007	.996	.980
July....	29.952	.944	.939	.941	.950	.960	.973	.982	.985	.985	.981	.974	.956
Aug	29.925	.919	.914	.915	.921	.933	.945	.956	.963	.965	.963	.950	.935
Sept....	29.971	.965	.958	.959	.966	.978	.992	.997	.010	.013	.005	.995	.976
Oct.....	29.971	.967	.963	.965	.973	.982	.996	.006	.015	.017	.011	.992	.971
Nov	30.054	.052	.049	.048	.051	.062	.074	.086	.093	.098	.092	.072	.050
Dec	30.067	.071	.071	.065	.062	.068	.080	.089	.100	.109	.100	.071	.046
Year....	29.987	.984	.982	.982	.987	.998	.010	.020	.027	.030	.024	.010	.989

WASHINGTON, D. C.

[λ=38° 54′ N.; φ=77° 3′ W.]

Jan	29.937	.940	.943	.940	.937	.940	.949	.963	.977	.986	.980	.961	.941
Feb	29.951	.952	.949	.948	.945	.949	.954	.966	.974	.975	.973	.960	.938
Mar	29.906	.906	.902	.905	.912	.926	.938	.951	.958	.962	.959	.947	.932
Apr	29.917	.913	.910	.909	.910	.918	.926	.929	.932	.937	.929	.918	.909
May....	29.967	.961	.959	.961	.968	.977	.984	.991	.995	.999	.994	.984	.975
June ...	29.953	.949	.944	.947	.956	.965	.971	.975	.976	.978	.975	.967	.958
July....	29.878	.876	.873	.874	.881	.887	.894	.897	.899	.899	.899	.894	.885
Aug	29.870	.863	.859	.859	.863	.872	.880	.888	.893	.896	.894	.885	.877
Sept....	29.956	.952	.954	.956	.963	.972	.981	.987	.993	.996	.984	.980	.966
Oct.....	29.968	.968	.964	.966	.972	.980	.988	.000	.004	.003	.993	.969	.945
Nov	30.062	.065	.064	.063	.065	.076	.087	.098	.110	.116	.110	.089	.066
Dec	30.031	.036	.040	.040	.039	.048	.058	.069	.080	.084	.073	.048	.028
Year....	29.950	.948	.947	.947	.951	.959	.968	.976	.983	.986	.980	.967	.952

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

SAN FRANCISCO, CAL.

[H = 153 ft.; gravity correction, —.02; local time 3h 10m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1895.
.877	.854	.836	.827	.827	.825	.825	.828	.833	.840	.851	.850	.921	.775	Jan.
.014	.000	.981	.966	.960	.956	.954	.959	.966	.968	.974	.982	.039	.926	Feb.
.956	.950	.936	.924	.917	.910	.904	.905	.910	.917	.926	.928	.991	.849	Mar.
.990	.981	.972	.961	.952	.947	.940	.937	.940	.952	.962	.964	.016	.909	Apr.
.892	.889	.884	.877	.867	.861	.856	.854	.856	.865	.877	.873	.921	.828	May.
.852	.849	.841	.833	.823	.815	.810	.808	.810	.815	.827	.829	.866	.783	June.
.854	.850	.844	.835	.824	.814	.805	.805	.805	.814	.825	.827	.866	.785	July.
.819	.813	.805	.793	.781	.769	.765	.761	.765	.777	.787	.789	.827	.751	Aug.
.855	.844	.832	.822	.809	.800	.795	.793	.797	.808	.813	.820	.865	.775	Sept.
.887	.874	.854	.841	.833	.825	.824	.831	.840	.846	.854	.853	.901	.806	Oct.
.960	.939	.923	.912	.910	.908	.907	.917	.923	.930	.937	.934	.997	.864	Nov.
.111	.084	.067	.059	.056	.055	.058	.062	.066	.072	.077	.077	.137	.016	Dec.
.922	.911	.898	.888	.880	.874	.870	.872	.876	.884	.892	.894	.946	.839	Year.

SANTE FE, N. MEX.

[H = 6,998 ft.; gravity correction, —.02; local time, 2h 4m slow.]

.167	.149	.140	.139	.144	.146	.155	.160	.165	.171	.174	.166	.238	.104	Jan.
.251	.236	.225	.219	.218	.221	.226	.234	.238	.245	.248	.238	.303	.182	Feb.
.239	.223	.209	.197	.192	.190	.193	.201	.210	.220	.228	.221	.288	.154	Mar.
.274	.263	.255	.237	.229	.225	.225	.231	.242	.252	.262	.260	.322	.191	Apr.
.273	.258	.248	.238	.229	.223	.219	.228	.242	.256	.265	.259	.308	.202	May.
.394	.379	.369	.354	.346	.345	.342	.344	.352	.367	.374	.374	.419	.328	June.
.412	.402	.391	.382	.373	.369	.372	.373	.385	.395	.405	.401	.435	.357	July.
.419	.409	.395	.382	.373	.372	.373	.379	.393	.409	.421	.408	.454	.359	Aug.
.392	.376	.362	.351	.342	.337	.337	.340	.354	.362	.368	.375	.424	.319	Sept.
.385	.369	.355	.349	.345	.343	.346	.354	.363	.370	.375	.371	.428	.316	Oct.
.278	.261	.248	.244	.243	.247	.255	.260	.266	.270	.274	.272	.....	.....	Nov.
.256	.238	.228	.225	.226	.227	.232	.239	.245	.254	.257	.246	.....	.....	Dec.
.312	.297	.285	.276	.272	.270	.273	.279	.288	.298	.304	.299	.....	.....	Year.

SAVANNAH, GA.

[H = 98 ft.; gravity correction, —.03; local time, 24m slow.]

.983	.973	.972	.974	.980	.991	.997	.002	.005	.002	.996	.005	.092	.907	Jan.
.012	.999	.995	.998	.008	.019	.024	.034	.042	.044	.041	.040	.137	.934	Feb.
.990	.972	.961	.959	.963	.970	.981	.990	.998	.000	.999	.001	.090	.895	Mar.
.913	.890	.883	.880	.885	.898	.907	.920	.928	.930	.928	.923	.006	.837	Apr.
.975	.956	.946	.945	.944	.949	.956	.967	.975	.977	.978	.977	.037	.920	May.
.962	.647	.937	.931	.933	.941	.950	.965	.976	.978	.973	.972	.019	.920	June.
.941	.922	.916	.911	.912	.923	.931	.943	.952	.957	.955	.949	.997	.898	July.
.919	.896	.889	.889	.896	.908	.917	.929	.934	.936	.934	.927	.972	.875	Aug.
.960	.947	.939	.940	.945	.953	.966	.972	.979	.979	.974	.972	.027	.925	Sept.
.951	.944	.940	.941	.949	.957	.967	.973	.975	.973	.970	.974	.036	.909	Oct.
.034	.027	.026	.029	.039	.050	.059	.065	.069	.068	.065	.059	.133	.984	Nov.
.030	.023	.021	.026	.034	.044	.055	.064	.071	.070	.068	.063	.143	.981	Dec.
.972	.958	.952	.952	.957	.967	.976	.985	.992	.993	.990	.988	.057	.915	Year.

WASHINGTON, D. C.

[H = 112 ft.; gravity correction, —.02; local time, 8m slow.]

.931	.932	.937	.941	.946	.956	.957	.959	.960	.952	.944	.950	.087	.792	Jan.
.916	.911	.909	.915	.921	.931	.934	.935	.936	.932	.932	.942	.077	.803	Feb.
.910	.902	.892	.892	.897	.905	.911	.917	.920	.923	.917	.920	.050	.763	Mar.
.897	.885	.881	.881	.883	.890	.904	.916	.920	.920	.921	.911	.013	.814	Apr.
.967	.953	.946	.943	.943	.948	.952	.963	.967	.967	.967	.968	.032	.904	May.
.946	.935	.929	.925	.926	.931	.937	.947	.954	.954	.953	.952	.010	.892	June.
.874	.864	.859	.854	.857	.862	.867	.877	.883	.883	.883	.879	.936	.816	July.
.863	.846	.835	.832	.831	.837	.847	.860	.866	.869	.868	.865	.923	.801	Aug.
.948	.934	.924	.924	.930	.940	.950	.959	.963	.964	.962	.960	.036	.886	Sept.
.928	.919	.914	.912	.923	.932	.941	.952	.957	.956	.957	.959	.082	.845	Oct.
.052	.048	.049	.051	.059	.068	.074	.080	.084	.082	.082	.075	.184	.954	Nov.
.012	.005	.002	.006	.008	.010	.012	.015	.019	.020	.017	.033	.135	.896	Dec.
.937	.928	.923	.923	.927	.934	.940	.948	.952	.952	.950	.951	.047	.847	Year.

Blank page retained for pagination

Blank page retained for pagination

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

BISMARCK, N. DAK.

[λ = 46° 47′ N.; φ = 100° 38′ W.]

1895.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	—2.8	—3.6	—4.6	—5.2	—5.9	—6.5	—6.6	—6.4	—6.7	—5.7	—3.5	—0.5	2.0
Feb	7.4	7.1	6.9	6.8	6.3	5.3	4.9	4.3	4.7	5.6	8.4	11.2	13.3
Mar	20.6	19.6	18.7	17.9	17.3	16.9	16.6	16.3	17.8	21.4	25.7	29.4	32.1
Apr	44.6	43.4	42.1	40.9	39.4	38.2	37.6	38.8	42.0	46.1	51.0	54.9	58.1
May	48.8	47.6	46.5	45.8	45.3	44.2	43.7	46.2	49.5	53.1	56.6	59.2	60.9
June ...	53.8	52.6	51.7	50.7	49.5	49.3	50.6	54.0	57.1	59.9	62.5	65.3	66.6
July	62.6	61.1	59.5	58.5	57.4	56.4	57.1	59.5	62.8	67.2	70.0	72.5	74.5
Aug	61.4	59.9	58.5	56.5	54.9	54.5	53.5	55.5	59.9	65.4	70.0	73.8	75.4
Sept	51.2	50.0	49.0	47.6	46.5	46.0	46.0	47.3	50.8	55.3	60.5	65.7	68.2
Oct	35.9	34.4	33.6	33.0	31.9	31.2	29.8	30.3	32.2	37.5	43.8	48.4	52.4
Nov	19.5	18.9	19.1	18.6	17.5	17.2	17.1	17.2	16.9	18.1	20.3	23.1	25.4
Dec	14.2	14.5	14.6	14.5	14.1	13.5	13.9	14.0	14.1	14.9	16.9	19.1	21.3
Year	34.8	33.8	33.0	32.1	31.2	30.5	30.4	31.4	33.4	36.6	40.2	43.5	45.8

BOSTON, MASS.

[λ = 42° 21′ N.; φ = 71° 4′ W.]

Jan	26.0	25.8	25.6	25.4	25.1	24.8	25.1	26.2	26.9	28.4	29.9	32.0	33.1
Feb	21.9	21.4	21.3	20.7	20.4	20.1	19.7	20.2	21.8	23.9	25.5	27.4	28.4
Mar	31.5	31.1	30.8	30.6	30.4	30.1	30.5	31.9	33.0	34.3	35.7	37.1	37.7
Apr	42.0	41.6	41.0	40.7	40.1	40.7	42.1	44.5	46.2	47.5	48.7	49.3	49.9
May	54.2	53.5	53.2	52.4	52.2	52.8	54.8	57.7	59.7	61.6	63.2	64.6	65.6
June ...	63.6	63.1	62.9	62.3	62.0	62.6	64.0	65.7	67.0	67.9	68.8	69.5	69.8
July	64.9	64.3	64.0	63.7	63.6	64.4	66.2	68.2	70.4	72.1	72.9	73.4	73.8
Aug	66.5	65.8	65.4	65.0	64.6	64.8	66.4	69.0	71.2	72.5	74.0	75.3	76.1
Sept	62.1	61.4	60.8	60.2	59.9	59.7	60.8	63.1	65.2	66.9	68.9	70.6	71.7
Oct	46.5	46.2	45.8	45.5	45.0	44.8	45.2	47.2	49.3	51.5	53.2	54.7	55.4
Nov	43.2	42.8	42.6	42.1	41.7	41.5	41.7	42.4	43.5	45.1	46.9	48.5	49.1
Dec	33.9	33.8	33.9	33.5	33.4	33.0	33.0	33.0	33.3	34.6	36.1	37.5	38.4
Year	46.4	45.9	45.6	45.2	44.9	44.9	45.8	47.4	49.0	50.5	52.0	53.3	54.1

BUFFALO, N. Y.

[λ=42° 53′ N.; φ=78° 53′ W.]

Jan	* 23.5	23.4	23.4	23.2	23.3	22.9	22.4	22.6	22.9	22.8	23.6	24.1	24.5
Feb	14.4	14.3	14.5	14.5	14.4	14.3	14.2	14.5	15.0	16.3	17.4	18.4	19.0
Mar	25.9	25.3	25.1	24.5	23.7	23.6	23.4	24.0	25.6	26.8	28.4	29.6	30.6
Apr	41.9	41.5	41.0	40.8	40.3	40.5	41.5	43.1	44.8	46.2	48.0	49.0	49.4
May	53.7	53.2	53.1	52.5	51.9	52.3	53.7	55.1	56.4	57.4	58.8	59.9	60.7
June ...	64.9	64.4	63.8	63.5	62.8	63.5	65.3	67.6	68.8	70.7	72.1	73.3	74.2
July	64.8	64.2	63.8	63.0	62.8	63.6	65.1	67.1	68.4	69.2	70.4	71.4	72.0
Aug	66.3	65.5	65.1	64.6	64.2	64.5	65.4	67.3	69.5	71.4	72.7	72.8	73.1
Sept	63.0	62.2	61.7	60.9	60.4	60.6	61.5	63.7	65.7	66.6	67.8	68.4	69.7
Oct * ...	45.4	45.0	44.4	44.4	43.9	43.4	43.9	45.6	47.8	49.2	50.4	51.6	52.2
Nov	(†)	(†)	(†)	(†)	(†)	(†)	(†)	(†)	(†)	(†)	(†)	(†)	(†)
Dec	33.2	32.9	32.7	32.6	32.4	32.6	32.9	33.2	33.7	34.3	35.5	36.0	36.5
Year	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

* For 27 days only.

† No record. Instrument broken.

CHICAGO, ILL.

[λ=41° 53′ N.; φ=87° 37′ W.]

Jan	17.7	17.3	17.2	16.8	16.2	15.8	15.6	15.6	15.3	15.7	16.5	17.7	18.8
Feb	16.5	15.5	14.9	14.4	13.9	13.4	13.0	12.9	13.6	14.7	16.0	17.6	18.9
Mar	31.0	30.4	30.0	29.6	29.3	28.9	28.3	28.5	29.3	30.3	31.1	32.2	33.0
Apr	45.5	45.6	44.8	44.6	44.2	43.7	44.0	44.8	45.6	46.3	46.9	47.8	47.8
May	57.2	56.7	56.2	55.6	55.2	54.8	54.9	56.6	57.6	59.1	60.3	61.6	62.5
June ...	67.9	67.5	67.0	66.3	65.9	65.6	66.4	68.7	70.3	71.5	71.9	72.3	73.0
July	68.7	67.9	67.7	67.3	66.5	66.1	66.3	67.7	69.3	71.0	72.0	72.5	72.8
Aug	71.5	70.9	69.8	69.2	68.4	68.2	68.3	69.3	71.2	72.8	73.7	74.7	75.3
Sept	66.1	65.5	64.7	63.8	63.5	63.1	62.5	63.4	65.3	67.4	68.8	70.2	71.5
Oct	44.7	43.8	43.0	42.5	42.2	41.5	41.1	41.7	43.5	45.8	48.1	49.3	50.3
Nov	35.8	35.4	34.9	34.7	34.6	34.3	34.1	34.6	34.9	36.1	37.3	38.6	39.2
Dec	30.2	29.8	29.6	29.4	28.8	28.2	28.0	28.2	28.0	28.2	28.9	29.7	30.1
Year	46.1	45.5	45.0	44.5	44.1	43.6	43.5	44.3	45.3	46.6	47.6	48.7	49.4

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

BISMARCK, N. DAK.

(h_t = 16 ft.; local time, 1^h 42^m slow.)

2^h	3^h	4^h	5^h	6^h	7^h	8^h	9^h	10^h	11^h	Mid.	Mean.	Mean. max.	Mean. min.	1895.
3.9	5.5	6.5	6.8	5.6	3.1	1.9	0.4	−0.5	−1.5	−2.5	−1.1	8.3	−10.7	Jan.
14.7	16.1	17.5	17.4	16.6	14.6	12.8	11.6	10.6	9.4	8.3	10.1	18.8	0.2	Feb.
34.9	36.7	38.2	39.0	38.0	36.3	32.7	29.2	26.6	24.8	23.4	26.3	41.4	13.5	Mar.
60.0	61.6	62.3	62.8	62.7	61.0	58.3	53.4	50.3	48.7	46.7	50.2	65.1	35.4	Apr.
62.2	63.5	63.9	63.7	63.6	61.8	60.6	56.7	53.9	51.8	50.3	54.1	67.1	42.2	May.
67.4	68.3	69.1	69.0	68.1	67.6	65.9	62.9	59.3	57.1	55.6	59.7	71.0	47.8	June.
76.1	77.3	78.4	78.1	77.7	76.3	74.4	70.7	67.1	64.7	63.7	67.6	80.6	54.5	July.
77.3	79.2	80.7	81.0	80.1	79.2	75.4	70.5	66.9	64.1	62.0	67.3	83.5	51.3	Aug.
70.7	72.6	74.0	74.1	73.4	70.3	66.0	60.6	57.4	54.6	52.2	58.8	74.3	44.1	Sept.
54.6	56.3	56.8	56.6	54.8	50.0	46.3	42.9	40.4	38.1	37.1	42.0	57.8	28.3	Oct.
27.0	27.6	28.0	27.4	25.8	24.0	22.9	21.7	21.0	20.4	19.2	21.4	31.7	12.6	Nov.
23.0	23.9	24.0	23.5	21.5	19.8	18.8	17.7	16.8	16.3	15.5	17.5	27.3	8.7	Dec.
47.6	49.0	50.0	50.0	49.0	47.0	44.7	41.5	39.2	37.4	36.0	39.5	52.2	27.3	Year.

BOSTON, MASS.

(h_t = 115 ft.; local time, 16^m fast.)

33.9	33.9	33.1	32.3	31.3	30.2	29.3	28.5	27.8	27.3	26.5	28.7	35.7	21.8	Jan.
29.5	29.8	29.5	28.9	28.0	26.8	25.9	25.1	24.3	24.1	23.3	24.5	32.5	16.6	Feb.
38.5	38.8	38.4	37.5	36.6	35.6	34.7	34.1	33.4	32.6	31.8	34.0	41.1	28.0	Mar.
50.3	50.1	49.8	49.3	48.6	47.5	46.1	45.3	44.4	43.9	43.4	45.5	53.8	38.1	Apr.
66.2	65.9	65.5	65.5	65.1	62.6	60.2	58.4	57.5	56.6	55.9	59.4	69.9	50.5	May.
69.3	69.1	69.3	69.2	68.9	68.0	67.1	66.2	65.8	64.6	64.1	66.3	73.5	60.0	June.
73.9	73.7	73.0	71.6	71.4	69.9	68.4	67.6	66.8	66.0	65.6	68.7	76.9	61.7	July.
76.4	76.2	75.8	75.1	74.5	72.2	70.8	70.1	69.3	68.3	67.5	70.5	79.3	62.7	Aug.
71.9	71.4	70.7	69.5	68.1	66.4	65.1	64.3	63.4	62.5	62.0	65.3	73.8	57.6	Sept.
55.8	55.3	54.2	53.1	51.9	50.6	49.5	49.2	48.5	48.1	47.4	49.8	57.8	41.4	Oct.
49.3	49.7	49.2	48.3	47.3	46.3	45.5	44.8	44.3	43.5	43.0	45.1	52.5	38.3	Nov.
38.9	38.8	38.5	37.5	36.8	36.0	35.9	35.3	35.0	34.4	34.0	35.4	42.7	28.5	Dec.
54.5	54.4	53.9	53.2	52.4	51.0	49.9	49.1	48.4	47.7	47.0	49.4	57.5	42.1	Year.

BUFFALO, N. Y.

[h_t = 103 ft.; local time, 15^m slow.]

24.6	25.1	25.4	25.1	24.7	24.5	23.9	23.8	23.8	23.5	23.5	23.8	28.0	17.8	Jan.
19.4	19.9	20.0	19.8	18.9	18.4	17.6	17.0	16.4	15.8	15.3	16.7	22.4	10.6	Feb.
31.3	31.9	31.8	30.8	29.4	28.5	28.0	27.4	26.8	26.5	25.9	27.3	33.9	19.9	Mar.
50.4	50.9	50.4	49.7	48.3	46.0	45.2	44.1	43.5	42.0	42.3	45.0	53.1	36.6	Apr.
60.8	60.8	61.3	60.3	59.3	58.3	57.3	56.2	56.0	55.2	54.7	56.6	64.5	48.0	May.
74.2	74.7	74.9	74.5	73.4	72.1	70.3	69.1	67.9	67.1	66.1	69.1	77.6	60.0	June.
72.5	72.9	73.1	72.7	71.8	70.8	69.6	68.8	67.6	66.1	65.2	68.2	74.9	61.1	July.
73.3	74.4	74.7	74.1	72.1	71.0	70.0	69.3	68.5	67.7	67.1	69.4	76.4	61.8	Aug.
70.2	70.5	70.3	69.8	68.2	66.5	65.4	64.5	64.1	63.6	63.2	65.4	72.1	57.4	Sept.
52.7	53.0	52.5	51.7	50.7	49.6	48.3	47.6	47.0	46.6	46.1	48.0	52.5	38.8	Oct.
(†)	(†)	(†)	(†)	(†)	(†)	(†)	(†)	(†)	(†)	(†)	(†)	45.7	34.7	Nov.
36.4	36.7	36.3	35.5	35.1	34.6	34.5	34.2	33.9	33.5	33.4	34.3	39.0	27.5	Dec.
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	53.3	39.5	Year.

CHICAGO, ILL.

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

19.4	20.3	21.3	21.6	21.0	20.5	20.1	19.5	19.1	18.7	18.2	18.2	24.8	10.3	Jan.
19.9	21.2	22.1	22.5	22.1	21.2	20.9	20.0	19.3	18.7	18.3	17.6	24.1	9.9	Feb.
33.9	35.0	35.7	35.8	35.8	35.6	34.7	34.1	33.4	32.2	31.5	32.1	39.1	24.3	Mar.
48.0	48.7	48.8	48.8	48.3	47.9	47.6	47.0	47.0	46.5	46.1	46.5	53.4	39.2	Apr.
63.2	64.0	64.2	64.3	63.8	62.9	61.4	60.5	60.2	59.6	58.5	59.6	67.9	50.4	May.
73.3	73.7	73.8	73.2	72.1	71.3	69.9	69.0	68.5	68.2	68.0	69.8	77.5	62.8	June.
73.3	73.7	74.2	73.8	73.8	73.1	72.3	70.8	70.5	70.0	69.2	70.4	77.1	63.3	July.
75.5	75.6	76.1	76.1	75.1	75.2	74.8	73.8	73.3	72.7	71.9	72.6	79.2	65.7	Aug.
72.1	72.8	73.6	74.6	74.6	73.2	71.4	70.4	69.0	67.8	66.5	68.4	77.0	60.2	Sept.
50.7	50.8	51.4	50.9	50.0	49.2	48.7	47.7	46.7	45.9	45.2	46.4	53.9	38.5	Oct.
39.7	40.2	40.4	40.1	39.5	38.8	38.4	37.7	37.2	36.9	36.6	37.1	42.3	30.7	Nov.
30.4	30.7	30.8	30.8	30.6	30.3	30.7	30.3	30.0	29.8	29.6	29.6	34.6	24.6	Dec.
50.0	50.6	51.0	51.0	50.6	49.9	49.2	48.4	47.8	47.2	46.6	47.4	54.2	40.0	Year.

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

CINCINNATI, OHIO.

[λ=39° 6′ N.; φ=84° 30′ W.]

1895.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	25.9	25.4	25.0	24.5	24.0	23.5	23.4	23.6	23.9	24.8	26.0	27.2	28.1
Feb	21.9	21.3	20.3	20.0	19.7	19.2	18.7	18.7	18.8	20.0	22.1	24.1	25.5
Mar	39.4	38.7	38.1	37.5	36.8	36.5	36.1	35.8	36.4	38.0	39.7	41.6	43.0
Apr	53.0	51.9	51.3	50.6	49.9	49.2	48.7	49.5	50.6	53.3	55.7	57.4	58.8
May	60.4	59.6	58.7	57.9	57.3	56.9	56.5	58.8	60.5	62.9	64.8	66.2	67.1
June	73.3	72.5	71.5	70.2	69.4	68.7	68.7	71.5	73.0	75.3	77.8	80.2	80.6
July	72.4	71.6	70.6	69.8	68.9	68.4	68.1	70.3	71.7	74.2	76.4	78.4	79.7
Aug	73.8	72.8	71.8	71.0	70.1	69.3	69.1	71.0	73.5	76.6	79.5	81.9	82.9
Sept	69.2	68.5	67.7	66.9	65.6	65.2	64.5	65.9	68.2	71.6	74.5	76.8	78.5
Oct	47.4	46.7	45.9	44.9	44.0	43.1	42.7	43.3	45.8	49.4	52.8	55.2	57.3
Nov	42.1	41.3	40.7	40.2	39.6	39.1	38.9	39.1	40.2	42.7	45.6	47.4	48.7
Dec	36.3	36.2	35.7	35.6	35.1	34.6	34.4	34.4	34.8	35.9	37.5	38.6	39.5
Year	51.3	50.5	49.8	49.1	48.4	47.8	47.5	48.5	49.8	52.1	54.4	56.2	57.5

CLEVELAND, OHIO.

[λ=41° 30′ N.; φ=81° 42′ W.]

Jan	22.0	21.6	21.3	20.8	20.5	20.3	19.9	20.0	20.2	20.6	21.4	22.4	23.4
Feb	18.0	17.7	17.1	16.7	16.5	16.3	15.8	16.1	16.4	17.3	18.5	20.0	20.9
Mar	28.8	28.2	27.5	27.2	26.9	26.6	26.3	27.0	27.6	28.7	30.0	31.3	32.0
Apr	45.1	44.3	43.5	42.8	42.4	42.2	42.9	45.4	46.7	48.4	49.2	49.8	50.1
May	55.6	55.1	54.5	53.9	53.5	53.3	54.5	57.4	60.2	62.2	63.5	64.5	64.0
June	66.7	66.3	65.5	64.9	64.2	63.8	64.9	68.5	70.6	71.9	72.4	73.8	74.1
July	66.4	65.7	65.1	64.1	63.2	63.0	63.9	66.8	69.1	71.2	72.8	73.0	73.5
Aug	67.3	66.7	66.3	65.5	64.8	64.8	65.5	68.1	70.8	73.1	74.8	75.6	76.0
Sept	65.2	64.5	64.0	63.6	63.3	62.5	62.4	64.2	67.2	69.3	70.7	71.5	72.9
Oct	45.0	44.7	44.0	43.2	42.9	42.7	42.5	43.7	45.9	48.7	50.2	51.0	51.6
Nov	39.1	38.7	38.8	38.7	38.2	37.8	37.5	37.6	38.3	40.1	42.3	44.2	44.8
Dec	32.1	32.1	32.1	31.5	31.4	31.0	31.2	31.2	31.3	32.4	33.5	35.6	36.5
Year	45.9	45.5	45.0	44.4	44.0	43.7	43.9	45.5	47.0	48.7	49.9	51.1	51.6

DETROIT, MICH.

[λ=42° 20′ N.; φ=83° 3′ W.]

Jan	18.8	18.5	18.4	18.2	17.7	17.4	17.4	17.5	17.7	18.7	20.5	22.2	22.9
Feb	16.2	15.5	14.7	14.6	14.1	13.5	13.3	13.4	14.0	15.7	17.7	19.4	20.4
Mar	25.7	25.2	24.9	24.4	24.0	23.7	23.8	24.8	26.2	27.7	29.3	30.7	31.9
Apr	43.1	42.6	42.0	41.4	41.0	40.7	40.9	43.4	45.8	48.8	51.2	52.9	54.7
May	54.7	54.3	53.8	53.2	52.5	52.3	53.2	56.7	58.7	61.4	62.6	64.1	64.4
June	66.4	65.4	64.2	63.7	63.1	63.2	64.7	68.4	71.0	73.4	74.7	76.3	77.1
July	65.7	65.0	64.2	63.4	62.8	62.3	62.8	65.3	67.9	70.7	73.1	75.4	76.7
Aug	66.3	65.3	65.1	64.4	63.6	63.1	63.5	66.4	68.5	71.1	73.3	75.1	76.5
Sept	63.7	63.1	62.5	62.1	61.4	60.9	60.5	61.9	64.2	66.6	69.4	70.7	71.8
Oct	42.5	41.6	41.1	40.3	39.7	39.1	38.7	40.1	42.3	45.0	47.4	48.8	50.1
Nov	36.6	36.1	35.9	35.5	34.8	34.5	34.3	34.1	34.7	36.4	38.0	39.3	40.2
Dec	28.8	28.7	28.5	28.4	28.5	28.4	28.3	28.1	28.6	29.3	30.4	31.4	31.9
Year	44.0	43.4	42.9	42.5	41.9	41.6	41.8	43.3	45.0	47.1	49.0	50.5	51.6

DODGE CITY, KANS.

[λ=37° 45′ N.; φ=100° 0′ W.]

Jan	23.8	23.8	23.3	22.9	21.9	21.5	20.7	19.9	19.5	20.7	23.9	27.5	29.3
Feb	20.6	19.9	19.6	19.2	18.8	18.2	18.2	17.2	17.5	19.0	22.1	26.2	28.8
Mar	38.3	37.6	36.3	35.5	34.5	33.7	33.2	32.4	34.4	38.6	42.4	45.5	48.0
Apr	51.2	50.3	49.2	48.5	47.4	46.5	45.9	47.5	52.9	57.1	60.6	63.2	65.4
May	59.3	58.4	56.9	56.3	55.0	54.1	53.5	55.8	59.5	63.0	66.8	69.4	71.7
June	65.0	64.7	63.5	62.6	61.5	61.1	60.9	63.4	66.5	69.4	72.1	74.4	76.5
July	68.8	68.0	66.9	66.3	65.7	65.6	65.5	67.0	69.5	72.2	75.3	77.9	79.8
Aug	70.2	69.4	68.7	68.1	67.1	66.1	65.6	66.7	70.2	73.3	76.6	79.8	82.4
Sept	68.4	67.5	66.6	65.6	63.7	62.6	62.0	62.0	65.5	70.2	74.9	78.2	80.8
Oct	47.7	46.9	45.6	44.5	43.9	43.3	42.2	41.8	42.8	48.1	53.3	57.3	60.3
Nov	36.3	35.1	34.5	33.8	33.3	32.4	31.9	31.6	31.4	34.8	40.2	44.0	47.3
Dec	28.3	27.8	27.1	26.5	25.6	25.1	24.7	24.3	23.7	25.5	30.0	35.4	39.5
Year	48.2	47.4	46.5	45.8	44.9	44.2	43.7	44.1	46.1	49.3	53.2	56.6	59.2

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

CINCINNATI, OHIO.

[h_t=153 ft.; local time, 38m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1895.
28.9	29.5	29.9	30.1	29.9	29.7	29.3	28.9	28.2	27.4	26.8	26.8	33.5	19.8	Jan.
26.7	27.5	28.1	28.6	28.6	27.9	27.1	26.3	25.5	24.7	23.9	23.6	30.8	16.7	Feb.
44.4	45.5	46.1	46.3	46.0	45.1	43.6	42.6	41.4	40.5	40.0	40.8	49.1	32.5	Mar.
59.9	61.0	61.8	61.7	61.4	61.0	59.7	58.8	57.4	56.3	54.7	55.6	64.5	46.2	Apr.
67.7	69.0	69.4	69.5	69.5	69.1	67.8	66.6	65.1	63.4	62.0	63.6	73.1	54.2	May.
81.0	81.9	82.4	82.3	82.4	82.0	80.5	79.2	77.7	75.9	74.2	76.4	85.5	66.2	June.
80.4	80.9	81.6	81.3	80.7	80.3	78.9	77.7	76.2	74.7	73.4	75.3	84.0	66.1	July.
83.3	84.0	85.2	85.3	85.1	83.5	81.5	79.8	78.2	76.5	75.2	77.5	87.2	67.1	Aug.
79.3	80.1	80.5	80.4	80.0	78.7	77.0	75.2	73.6	71.7	69.9	72.9	82.5	63.0	Sept.
58.6	59.5	59.6	59.4	58.5	56.7	54.8	53.0	51.4	49.9	48.4	51.2	61.2	41.1	Oct.
49.1	49.4	49.4	48.7	47.9	47.1	45.9	45.0	44.1	43.4	42.9	44.1	52.6	35.7	Nov.
40.4	41.0	40.8	40.6	39.8	39.2	39.0	38.2	37.2	36.9	36.3	37.4	43.5	31.1	Dec.
58.3	59.1	59.6	59.5	59.2	58.4	57.1	55.9	54.7	53.4	52.3	53.8	62.3	45.0	Year.

CLEVELAND, OHIO.

[h_t=122 ft.; local time, 27m slow.]

24.3	24.8	25.2	25.0	24.4	23.9	23.7	23.4	23.1	22.7	22.5	22.4	29.5	15.4	Jan.
21.9	22.4	22.5	22.5	22.2	21.9	21.4	20.8	20.5	20.0	19.7	19.3	26.5	13.2	Feb.
32.6	33.4	33.8	33.8	33.2	32.5	31.7	30.8	30.4	29.6	28.9	29.9	39.3	22.8	Mar.
50.1	51.0	51.7	52.3	52.8	52.2	51.4	50.2	49.0	47.8	46.7	47.8	56.9	39.6	Apr.
63.7	63.2	63.8	64.2	64.6	64.1	62.9	62.0	60.7	59.1	57.7	59.9	68.9	50.0	May.
74.3	74.3	74.9	74.8	74.7	74.2	73.1	72.4	70.8	69.2	67.7	70.3	78.2	61.6	June.
73.9	74.4	74.5	74.6	75.0	74.4	72.9	71.9	70.5	68.8	67.6	69.8	77.1	60.9	July.
65.6	75.1	74.9	74.7	74.6	74.3	72.9	71.4	70.1	69.1	68.1	70.8	78.9	62.6	Aug.
73.4	73.3	73.1	72.8	71.4	69.9	68.3	67.1	66.5	66.2	65.5	67.9	75.4	59.7	Sept.
52.0	52.0	52.0	51.7	50.7	49.6	48.1	47.3	46.5	45.8	45.2	47.4	53.9	39.5	Oct.
45.3	45.6	45.3	44.8	43.8	42.9	41.5	40.9	40.0	39.6	39.2	41.0	48.7	34.2	Nov.
37.1	36.9	36.7	36.0	35.4	34.8	34.2	33.9	33.1	32.5	32.0	33.5	39.1	27.3	Dec.
52.0	52.2	52.4	52.3	51.9	51.2	50.2	49.3	48.4	47.5	46.7	48.3	56.0	40.6	Year.

DETROIT, MICH.

[h_t=158 ft.; local time, 32m slow.]

23.5	24.0	23.0	22.4	21.7	21.3	20.8	20.2	19.8	19.1	18.8	20.0	26.4	13.6	Jan.
21.4	22.2	22.5	22.3	21.9	21.0	20.2	19.6	18.9	18.4	18.0	17.9	24.4	11.4	Feb.
32.6	32.6	32.8	32.7	32.1	31.1	30.1	29.1	28.2	26.8	26.0	28.2	36.1	20.9	Mar.
55.6	56.0	55.6	55.2	54.3	52.3	50.6	48.4	46.9	45.3	44.6	48.1	58.1	39.2	Apr.
65.4	66.1	66.3	66.0	65.5	64.1	61.7	60.0	58.4	57.4	56.4	59.5	69.5	49.6	May.
78.5	78.4	77.9	78.1	77.7	76.1	73.4	71.4	69.3	67.9	66.6	71.1	80.9	61.5	June.
77.5	77.5	77.5	77.1	76.9	75.3	72.4	70.7	68.9	67.5	66.5	70.1	80.2	60.6	July.
77.8	78.0	78.5	78.1	77.2	75.4	73.1	71.2	69.4	68.3	67.0	70.7	80.7	61.6	Aug.
72.7	73.5	73.5	73.1	71.7	69.6	67.2	66.3	65.3	64.6	63.7	66.7	75.2	58.2	Sept.
50.8	51.5	51.6	50.8	49.6	48.3	47.2	46.0	44.8	44.1	43.2	45.2	53.6	37.2	Oct.
40.9	41.2	41.1	40.2	39.1	38.5	38.1	37.6	37.3	36.8	36.6	37.4	43.8	31.9	Nov.
32.3	32.3	32.1	31.7	31.2	30.8	30.6	30.0	29.7	29.8	29.1	29.9	34.8	24.5	Dec.
52.4	52.8	52.7	52.3	51.6	50.3	48.8	47.5	46.4	45.5	44.7	47.1	55.3	39.2	Year.

DODGE CITY, KANS.

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

30.9	32.5	33.9	34.2	33.4	31.4	29.0	27.1	25.9	25.1	24.2	26.1	36.7	17.1	Jan.
30.2	31.5	32.6	32.8	32.2	30.9	28.0	26.1	24.6	23.5	22.6	24.2	36.6	14.2	Feb.
50.3	51.8	52.9	53.4	52.9	51.2	47.3	44.5	42.9	40.8	39.5	42.4	56.2	29.6	Mar.
66.8	68.3	68.2	68.1	67.4	66.2	62.7	59.3	57.5	55.3	53.4	57.4	71.1	43.0	Apr.
74.1	76.0	77.2	77.0	76.6	74.8	72.6	68.1	65.6	63.0	61.2	65.2	78.5	51.2	May.
78.0	79.3	79.9	80.0	78.8	77.6	74.9	71.3	69.0	67.3	65.8	70.1	81.5	58.4	June.
80.8	81.9	82.5	82.8	82.6	81.5	79.5	76.1	73.4	71.9	70.1	73.8	84.2	63.8	July.
84.1	85.1	85.7	85.0	84.3	82.7	79.9	76.4	74.4	72.7	71.2	75.2	87.5	63.8	Aug.
82.5	84.0	84.8	84.8	83.9	81.3	77.0	73.9	71.8	69.8	69.0	72.9	86.0	59.4	Sept.
62.4	63.9	64.5	64.8	64.2	61.0	55.9	53.4	51.4	49.6	48.5	52.4	65.9	39.6	Oct.
49.6	51.4	52.1	51.7	50.0	45.6	42.7	40.7	39.4	37.7	36.8	40.2	53.3	29.4	Nov.
41.6	43.6	44.0	43.9	42.4	37.5	34.4	32.7	31.7	30.3	29.0	32.3	45.5	22.1	Dec.
60.9	62.4	63.2	63.2	62.4	60.1	57.0	54.1	52.3	50.6	49.3	52.7	65.2	41.0	Year.

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

EASTPORT, ME.

[λ=44° 54′ N.; φ=66° 59′ W.]

1895.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	23.4	22.8	22.3	21.8	21.4	21.2	21.3	21.5	22.3	23.2	24.3	25.4	26.1
Feb	19.5	19.3	19.0	18.7	18.4	18.2	18.3	19.0	20.1	21.2	22.9	23.8	24.8
Mar	27.5	26.9	26.3	26.0	25.6	25.0	25.0	25.5	26.4	27.7	28.8	30.0	30.7
Apr	36.6	36.2	35.8	35.4	35.3	35.9	37.3	38.8	40.0	41.7	42.9	43.8	44.4
May	44.0	43.5	43.1	42.9	43.3	44.3	45.9	47.7	49.5	50.6	51.7	51.6	52.5
June ...	50.6	50.4	49.5	49.8	50.6	52.1	53.0	55.5	57.2	57.9	59.1	59.5	60.0
July	54.6	54.6	54.3	54.0	54.2	54.6	55.9	57.7	59.7	61.3	62.2	63.3	64.3
Aug	57.0	56.6	56.3	56.2	55.8	56.5	57.9	60.3	62.0	64.0	64.9	65.4	65.9
Sept	52.4	52.2	51.8	51.4	51.0	51.6	53.0	54.9	57.0	59.0	60.0	60.8	60.6
Oct.....	42.4	42.0	42.0	41.8	41.7	41.8	42.7	44.2	45.1	46.2	47.3	48.3	48.9
Nov	39.0	38.9	39.0	38.9	38.7	38.7	38.3	38.7	39.4	40.4	41.2	41.8	42.3
Dec	29.0	29.0	28.9	28.8	28.4	28.1	28.2	28.6	29.4	30.5	31.7	32.5	33.0
Year....	39.7	39.4	39.0	38.8	38.7	39.0	39.8	41.0	42.3	43.6	44.8	45.5	46.1

GALVESTON, TEX.

[λ=29° 18′ N.; φ=94° 50′ W.]

Jan	52.4	52.2	52.2	52.1	52.1	51.6	51.2	50.7	50.7	51.5	52.7	53.7	54.6
Feb	42.8	42.5	42.0	41.6	41.4	41.0	40.9	40.5	40.7	41.0	41.2	42.5	43.2
Mar	58.5	58.4	58.4	58.3	58.3	58.1	57.8	57.7	58.2	58.6	59.9	60.8	61.7
Apr	66.5	66.2	66.1	65.6	65.2	65.0	64.7	65.0	65.6	66.7	67.5	68.6	69.3
May	72.6	72.4	72.3	72.1	71.9	71.8	71.6	71.9	72.4	73.3	73.8	73.9	74.6
June ...	79.2	79.1	78.9	79.0	78.8	78.8	78.7	79.5	79.6	80.1	80.8	81.3	81.7
July	81.4	81.2	81.5	81.3	81.3	81.2	81.2	81.8	82.6	83.3	83.9	84.6	84.6
Aug	81.3	81.5	81.3	81.3	81.3	81.1	81.1	81.5	81.7	82.4	83.7	84.7	84.7
Sept....	80.9	80.8	80.7	80.5	80.2	79.9	79.6	79.9	80.3	81.1	81.8	82.4	82.3
Oct.....	69.5	69.1	68.7	68.2	67.7	67.1	66.6	65.8	65.8	66.5	67.9	69.3	70.2
Nov	60.5	60.2	59.9	59.7	59.4	59.2	59.1	59.2	59.2	59.6	60.4	61.5	62.2
Dec	54.9	54.5	54.4	54.2	54.2	53.9	53.6	53.3	52.7	52.9	54.0	55.0	56.5
Year....	66.7	66.5	66.4	66.2	66.0	65.7	65.5	65.6	65.8	66.4	67.3	68.2	68.8

HAVRE, MONT.

[λ=48° 34′ N.; φ=109° 40′ W.]

Jan	0.7	—0.4	—0.7	—1.0	—1.1	—1.5	—1.4	—1.0	—1.6	—1.9	—0.5	1.6	4.1
Feb	7.5	7.7	7.3	7.2	7.1	6.7	6.8	6.6	6.3	6.5	8.3	10.4	12.6
Mar	25.5	25.0	25.2	24.7	24.3	23.8	23.6	23.5	24.0	26.0	29.2	31.9	34.9
Apr	43.8	43.2	41.4	39.8	38.3	36.6	35.4	36.2	39.7	44.5	48.5	52.0	55.4
May	47.9	46.3	44.2	43.3	42.3	41.1	40.1	42.6	46.4	49.9	53.8	56.8	59.7
June ...	53.2	52.2	50.8	49.7	48.8	48.4	48.2	50.7	54.1	57.6	60.6	62.7	64.4
July	60.7	59.3	58.2	57.0	55.2	54.1	53.6	55.5	59.0	62.2	66.0	68.8	71.4
Aug	59.5	57.5	55.3	53.7	52.3	50.9	50.0	50.5	55.6	60.7	66.4	70.0	73.0
Sept....	48.0	47.0	46.9	46.4	45.4	44.2	42.6	42.4	44.6	47.6	52.9	55.5	58.7
Oct.....	38.9	37.4	36.4	35.3	34.1	33.4	32.3	32.8	32.7	36.0	43.8	48.9	52.3
Nov	28.3	27.9	27.9	27.7	26.9	26.6	26.4	26.3	25.6	25.4	27.1	29.7	32.1
Dec	21.7	20.9	20.8	21.0	21.3	21.2	20.3	20.4	19.6	19.3	19.7	21.3	24.1
Year....	36.3	35.3	34.5	33.7	32.9	32.1	31.5	32.2	33.8	36.2	39.6	42.5	45.2

KANSAS CITY, MO.

[λ=39° 5′ N.; φ=94° 37′ W.]

Jan	23.6	22.6	21.4	20.7	20.1	19.5	19.0	19.0	18.6	19.1	21.0	23.7	26.2
Feb	23.3	22.9	22.4	21.8	21.0	20.2	19.8	19.5	19.5	20.4	22.5	25.1	26.9
Mar	39.6	39.3	38.6	37.8	37.2	36.5	35.8	35.6	36.1	38.4	41.1	43.5	45.5
Apr	55.9	55.4	54.4	53.6	52.5	52.0	51.2	52.2	53.9	56.5	59.7	62.3	64.3
May	60.9	59.9	59.0	58.2	57.2	56.6	56.6	58.3	60.9	63.9	66.7	68.9	70.1
June ...	68.9	68.1	67.3	66.6	66.0	65.4	66.2	67.8	70.6	72.5	73.9	75.7	77.1
July	70.7	70.1	69.1	68.3	67.9	67.5	67.3	68.9	70.5	72.4	74.7	76.6	78.1
Aug	71.3	67.6	70.0	69.2	68.5	68.3	67.9	69.2	71.0	73.6	76.1	78.2	79.6
Sept....	69.1	68.5	68.0	67.5	66.7	66.0	65.6	66.2	67.7	71.1	74.9	77.4	79.0
Oct.....	49.4	48.8	47.7	46.8	45.9	45.2	44.2	44.0	45.2	48.3	52.4	55.3	57.7
Nov	39.8	39.3	37.9	37.1	36.5	35.9	35.6	35.4	35.9	37.6	39.9	42.3	44.4
Dec.*...	32.5	32.5	31.9	31.5	31.0	30.4	29.8	29.9	29.1	29.9	31.5	33.1	34.0
Year....	50.4	49.6	49.0	48.3	47.5	47.0	46.6	47.2	48.2	50.3	52.9	55.2	56.9

* For 29 days.

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

EASTPORT, ME.

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

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1895.
26.8	27.2	27.3	27.1	27.0	26.6	26.5	25.9	25.2	24.8	24.0	24.4	30.2	18.7	Jan.
25.4	25.5	25.5	24.7	24.0	23.3	22.6	21.8	21.1	20.5	20.0	21.6	27.2	14.9	Feb.
31.4	32.0	31.9	31.5	31.0	30.3	30.0	29.6	29.1	28.5	28.0	28.5	34.4	22.5	Mar.
44.6	44.8	44.5	43.5	42.2	40.8	40.2	39.1	38.6	38.1	37.6	39.9	46.7	34.0	Apr.
52.3	52.2	52.2	52.0	50.5	49.6	48.4	47.8	46.7	45.6	45.0	48.0	55.9	40.7	May.
60.1	60.0	58.9	57.5	56.4	54.3	53.7	52.6	52.5	51.7	51.1	54.8	63.3	47.7	June.
64.5	64.3	63.8	63.0	62.0	60.5	59.4	58.4	57.3	56.4	55.5	59.0	67.1	51.7	July.
65.7	65.9	65.2	64.0	62.8	60.9	60.2	58.9	58.3	57.9	57.7	60.7	68.9	54.2	Aug.
60.6	60.8	60.7	59.3	57.6	56.0	55.8	54.7	53.9	53.0	52.6	55.9	63.8	49.0	Sept.
49.1	48.8	48.3	47.4	46.5	46.1	45.2	44.4	43.7	43.0	42.7	45.0	50.6	38.8	Oct.
42.2	42.1	41.9	41.1	40.7	40.1	39.8	39.2	38.8	38.4	38.2	39.9	45.7	33.8	Nov.
33.3	33.0	32.5	31.6	31.2	30.9	30.8	30.5	30.1	29.9	29.9	30.4	35.5	24.0	Dec.
46.3	46.4	46.1	45.2	44.3	43.3	42.7	41.9	41.3	40.6	40.2	42.3	49.1	35.9	Year.

GALVESTON, TEX.

[h_t=85 ft.; local time, 1h 19m slow.]

55.2	55.5	55.6	55.5	55.2	54.7	54.5	54.4	53.7	53.4	52.8	53.3	59.2	47.5	Jan.
43.8	44.1	44.7	45.1	44.8	44.6	44.4	43.9	43.8	43.5	43.2	42.8	47.3	37.8	Feb.
62.0	62.2	62.1	61.9	61.4	60.8	60.1	59.6	59.4	59.2	59.0	59.7	65.0	55.1	Mar.
70.2	70.5	70.9	70.6	70.2	69.4	68.4	67.8	67.4	67.2	66.9	67.6	72.8	63.3	Apr.
74.7	74.8	75.1	74.8	74.5	74.1	73.6	73.2	73.0	73.1	72.6	73.3	77.5	69.0	May.
82.1	82.0	82.2	82.0	81.5	81.2	80.7	80.2	80.0	79.8	79.6	80.3	84.8	77.0	June.
84.6	84.6	84.7	84.2	83.8	83.6	82.9	82.3	82.0	81.9	81.6	82.8	87.4	79.0	July.
84.5	84.1	84.0	83.6	83.2	82.3	82.0	81.4	81.3	81.4	81.2	82.4	87.5	78.6	Aug.
82.5	82.7	82.8	82.5	82.3	82.2	81.5	81.2	81.0	80.7	80.5	81.3	85.3	77.7	Sept.
71.3	71.8	72.3	72.4	72.2	71.5	70.6	70.3	70.0	69.5	69.3	69.3	74.8	64.6	Oct.
62.3	62.6	62.8	63.0	62.8	62.4	62.3	61.8	61.7	61.4	61.2	61.0	65.8	56.2	Nov.
57.7	58.2	58.3	58.3	57.7	56.9	56.3	55.8	55.5	55.0	54.6	55.4	60.8	49.6	Dec.
69.2	69.4	69.6	69.5	69.1	68.6	68.1	67.7	67.4	67.2	66.9	67.4	72.4	63.0	Year.

HAVRE, MONT.

[h_t=15 ft.; local time, 2h 19m slow.]

5.1	6.1	6.9	7.3	6.9	5.5	4.0	2.8	1.8	1.0	0.3	1.8	11.1	—8.5	Jan.
14.1	15.5	16.5	17.5	17.6	16.8	14.8	12.9	11.9	10.7	10.5	10.8	19.6	1.4	Feb.
36.3	37.8	38.7	39.6	39.6	38.8	36.2	32.5	29.8	28.1	27.0	30.2	42.3	18.6	Mar.
57.6	58.7	59.9	60.8	61.0	60.5	59.3	55.1	50.4	47.7	45.8	48.8	62.8	32.9	Apr.
61.7	63.3	63.8	63.8	63.7	63.4	62.3	60.1	56.2	52.8	50.5	53.2	66.8	38.5	May.
65.5	67.4	68.3	68.6	68.4	66.7	66.0	64.4	62.0	57.3	55.4	58.8	70.6	45.8	June.
73.3	75.1	76.5	77.7	77.7	77.2	76.0	74.2	70.3	66.0	63.3	66.2	79.0	52.0	July.
75.4	77.8	79.1	80.0	80.1	79.5	78.1	74.7	68.6	64.6	61.6	65.6	80.8	47.5	Aug.
60.5	62.5	63.5	63.5	63.8	62.5	60.4	55.5	52.6	50.2	49.1	52.8	65.3	40.0	Sept.
54.9	57.5	58.9	59.5	59.1	55.8	51.1	46.2	44.4	43.1	40.9	44.4	61.0	28.9	Oct.
33.5	34.7	35.4	35.3	34.0	31.6	29.9	28.2	27.8	27.7	27.0	29.3	36.9	19.3	Nov.
26.2	27.9	28.5	28.3	27.0	25.0	23.7	22.8	22.6	22.6	22.4	22.9	30.7	11.7	Dec.
47.0	48.7	49.7	50.2	49.9	48.6	46.8	44.1	41.5	39.3	37.8	40.4	52.2	27.3	Year.

KANSAS CITY, MO.

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

28.1	29.6	30.6	30.7	30.1	28.8	27.7	26.4	25.4	24.5	23.8	24.2	32.4	15.7	Jan.
28.3	29.6	30.4	30.7	30.6	29.7	28.8	27.5	26.6	25.8	25.2	24.9	32.8	17.0	Feb.
47.1	48.2	49.4	49.3	49.2	47.9	46.0	44.5	43.3	41.6	40.7	42.2	52.2	32.3	Mar.
65.1	66.3	67.1	67.5	67.5	66.6	64.2	62.7	61.3	59.7	58.3	59.6	69.9	49.2	Apr.
71.9	72.7	73.3	73.3	72.6	70.5	68.4	66.1	64.5	63.0	61.8	64.8	75.9	54.9	May.
77.9	79.2	79.4	79.7	79.2	77.8	76.4	74.2	72.7	70.9	69.8	72.6	81.7	64.2	June.
79.0	79.8	80.3	80.2	79.2	78.4	77.1	75.3	73.8	72.4	71.5	73.7	82.1	66.3	July.
80.9	81.8	82.2	82.2	81.6	83.7	77.6	75.7	74.3	73.1	72.1	74.8	83.5	67.1	Aug.
79.2	80.0	80.7	80.8	79.8	77.8	75.1	73.1	71.5	70.5	69.4	72.7	82.8	63.6	Sept.
59.7	61.5	62.5	62.5	61.8	59.6	57.0	54.8	53.6	52.0	50.4	52.8	63.5	43.0	Oct.
46.0	47.2	47.7	47.6	46.8	45.5	44.2	43.6	42.8	41.8	40.8	41.3	48.8	33.4	Nov.
35.3	36.1	36.8	37.1	36.3	35.4	34.7	34.0	33.5	32.8	32.3	33.0	39.6	25.7	Dec.
58.2	59.3	60.0	60.1	59.6	58.5	56.4	54.8	53.6	52.3	51.3	53.0	62.1	44.4	Year.

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

KEY WEST, FLA.

[λ=24° 34′ N.; φ=81° 49′ W.]

1895.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	67.3	67.4	67.4	67.2	67.1	66.9	66.9	67.7	68.8	69.9	71.3	72.0	72.2
Feb	63.2	62.9	63.0	62.8	62.6	62.5	62.5	62.7	63.4	64.1	65.1	65.5	65.6
Mar	70.9	70.8	70.7	70.6	70.5	70.6	70.7	71.7	72.7	73.5	74.2	74.9	75.0
Apr	72.4	72.2	72.0	72.1	72.0	72.0	72.5	73.6	74.2	75.0	75.7	75.9	76.2
May	77.8	77.5	77.4	77.3	77.3	77.2	78.6	80.1	80.7	81.4	82.1	82.4	82.1
June ...	80.2	80.0	79.6	79.2	79.3	79.4	80.7	82.0	82.9	83.5	83.9	84.3	84.8
July	81.1	81.2	81.2	80.9	80.8	80.8	82.1	83.5	84.5	85.1	86.2	86.5	86.6
Aug	81.8	81.5	81.6	81.5	81.6	81.3	81.7	83.1	84.2	84.8	85.3	85.9	86.4
Sept	80.7	80.5	80.5	80.6	80.6	80.6	80.9	82.3	83.0	84.1	84.6	85.3	85.4
Oct.	77.4	77.4	77.2	77.1	77.1	77.1	77.2	78.0	78.5	79.2	79.8	80.1	80.1
Nov	74.3	73.9	73.8	73.7	73.6	73.4	73.5	73.8	74.2	74.8	75.4	75.7	76.3
Dec	67.4	67.1	67.0	66.7	66.6	66.5	66.5	66.9	67.5	68.2	68.5	68.9	69.2
Year	74.5	74.4	74.3	74.1	74.1	74.0	74.5	75.4	76.2	77.0	77.7	78.1	78.3

MARQUETTE, MICH.

[λ=46° 34′ N.; φ=87° 24′ W.]

Jan	13.9	13.4	13.3	13.1	12.6	12.3	12.2	12.2	12.1	12.7	14.0	15.7	17.3
Feb	12.1	11.8	11.4	10.8	10.5	10.4	10.2	10.4	10.9	12.4	14.1	16.1	17.8
Mar	19.5	19.1	18.6	18.1	17.6	17.1	16.8	17.0	18.7	20.5	22.9	24.4	24.7
Apr	38.8	38.7	38.6	38.4	37.8	37.6	38.0	39.4	40.3	41.6	43.0	43.0	43.1
May	49.7	49.7	49.4	49.1	49.0	49.2	50.0	52.2	54.5	55.5	57.2	58.9	59.3
June ...	57.6	57.5	56.9	55.5	55.4	55.7	58.7	60.1	61.8	62.9	64.4	65.2	65.5
July	58.9	58.7	58.2	57.5	56.9	57.3	58.8	61.6	63.1	65.4	67.0	67.5	67.6
Aug	61.0	60.7	60.6	59.9	59.2	58.8	59.6	61.3	63.4	65.3	67.0	67.5	68.1
Sept	57.4	56.8	56.1	55.6	54.9	55.0	55.1	56.3	58.3	60.6	62.3	63.6	64.7
Oct.	39.1	38.8	38.8	38.0	37.9	37.7	37.7	37.8	39.1	40.9	42.1	42.9	43.3
Nov	30.8	30.5	30.2	30.2	29.9	29.5	29.1	29.2	29.3	30.3	31.4	33.2	34.1
Dec	23.8	23.5	23.5	23.5	23.4	23.4	23.2	23.5	23.6	24.1	24.7	25.6	26.6
Year	38.6	38.3	38.0	37.5	37.1	37.0	37.4	38.4	39.6	41.0	42.5	43.6	44.3

MEMPHIS, TENN.

[λ=35° 9′ N.; φ=90° 3′ W.]

Jan	36.6	36.1	35.5	35.2	34.8	34.6	34.4	33.9	34.1	35.0	36.4	38.4	39.8
Feb	32.6	32.1	31.3	30.6	29.9	29.5	28.8	28.4	29.0	30.7	32.6	34.6	36.5
Mar	50.4	49.6	48.4	47.5	46.8	46.0	45.7	45.6	46.9	49.0	51.2	54.1	55.7
Apr	60.5	59.5	58.5	57.5	56.9	56.3	56.0	57.8	59.9	62.8	65.2	67.5	68.8
May	64.4	63.8	63.2	62.6	61.7	61.1	61.5	63.9	66.1	68.5	70.7	72.6	73.6
June ...	74.3	73.5	72.8	72.0	71.4	70.9	71.5	74.3	76.6	79.1	80.9	82.8	84.0
July	74.7	74.2	73.7	73.4	73.0	72.7	72.7	74.1	74.8	76.3	77.9	79.8	81.3
Aug	75.2	74.5	74.0	73.4	72.9	72.3	72.4	74.1	75.6	78.0	81.0	82.9	84.5
Sept	74.1	73.1	72.7	71.9	71.0	70.3	69.9	70.9	72.6	75.1	78.2	80.1	81.8
Oct.	55.1	54.1	52.8	52.1	50.9	50.1	49.5	49.5	51.1	54.9	58.7	61.8	64.3
Nov	49.4	48.8	48.5	47.9	47.6	47.6	46.6	45.7	45.9	47.4	50.0	52.2	54.0
Dec	42.7	42.3	41.8	41.5	41.1	40.6	39.9	39.5	39.1	39.9	41.3	43.1	44.9
Year	57.5	56.8	56.1	55.5	54.8	54.3	54.1	54.8	56.0	58.1	60.3	62.5	64.1

NEW ORLEANS, LA.

[λ=29° 58′ N.; φ=90° 4′ W.]

Jan	49.9	49.6	49.2	48.9	48.5	48.5	48.6	48.5	48.4	49.7	52.4	54.5	55.6
Feb	43.0	42.6	42.2	41.6	41.3	41.0	40.6	40.2	40.3	41.6	43.6	45.6	47.1
Mar	58.9	58.5	58.1	57.9	57.6	57.2	56.6	56.8	58.1	60.1	62.4	64.3	66.1
Apr	63.6	63.3	62.8	62.6	62.4	62.1	62.0	63.2	65.4	67.1	69.2	71.2	72.6
May	70.0	69.8	69.4	69.1	68.8	68.7	68.8	70.8	72.7	74.7	76.2	77.5	77.7
June ...	76.3	76.0	75.8	75.5	75.4	75.2	76.1	78.1	80.1	81.8	82.7	83.7	84.1
July	78.1	77.8	77.6	77.4	77.3	77.1	77.6	79.3	81.5	83.2	84.6	85.5	85.5
Aug	77.9	77.6	77.8	77.6	77.5	77.3	77.2	78.6	80.1	81.8	83.2	84.1	84.8
Sept	78.1	77.6	77.4	77.2	76.9	76.5	76.2	77.6	79.5	81.4	83.4	84.0	85.6
Oct.	65.3	65.0	64.3	63.8	63.0	62.5	62.1	62.3	64.2	66.9	70.0	72.3	73.5
Nov	57.1	56.7	56.3	56.0	55.6	55.1	54.6	54.6	56.0	58.6	61.8	63.4	65.0
Dec	51.2	50.9	50.4	50.1	49.5	48.5	48.1	47.9	48.5	50.9	54.3	56.6	58.2
Year	64.1	63.8	63.4	63.1	62.8	62.5	62.4	63.2	64.6	66.5	68.6	70.2	71.3

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

KEY WEST, FLA.

[h_t=42 ft.; local time, 27^m slow.]

2^h	3^h	4^h	5^h	6^h	7^h	8^h	9^h	10^h	11^h	Mid.	Mean.	Mean max.	Mean min.	1895.
71.9	72.0	71.6	70.6	69.2	68.7	68.5	68.4	68.1	68.0	67.8	69.0	73.2	64.9	Jan.
65.9	65.7	65.9	66.0	65.0	64.3	63.9	63.6	63.3	63.3	63.2	64.0	68.2	59.6	Feb.
74.9	74.5	74.1	73.8	73.0	72.0	71.7	71.5	71.3	71.1	71.1	72.3	76.6	68.3	Mar.
76.0	76.0	75.7	75.4	74.8	73.9	73.2	73.0	73.0	72.8	72.7	73.8	78.1	69.8	Apr.
82.8	82.5	82.1	81.8	81.2	79.6	79.6	79.0	78.7	78.3	78.1	79.8	84.3	75.5	May.
84.9	84.5	84.2	84.0	82.9	82.0	81.2	80.5	80.4	80.3	80.3	81.9	86.3	77.1	June.
86.5	86.1	85.6	85.4	84.7	83.6	82.9	82.0	81.6	81.3	80.9	83.4	88.6	78.7	July.
86.3	85.5	85.4	85.4	84.4	83.1	82.8	82.6	82.4	82.3	82.0	83.5	87.8	78.1	Aug.
85.2	85.2	84.8	83.7	83.1	82.4	82.1	81.8	81.8	81.5	81.0	82.6	87.2	76.7	Sept.
80.4	80.3	80.2	79.8	78.9	78.5	78.6	78.3	78.1	77.7	77.5	78.5	82.1	75.2	Oct.
76.8	76.9	76.6	76.0	75.4	75.0	74.9	74.8	74.8	74.6	74.4	74.9	78.3	71.2	Nov.
69.3	69.3	69.4	68.8	67.8	67.5	67.5	67.2	67.1	67.1	66.9	67.7	71.5	64.1	Dec.
78.4	78.2	78.0	77.6	76.7	75.9	75.6	75.2	75.0	74.9	74.7	76.0	80.2	71.6	Year.

MARQUETTE, MICH.

[h_t=67 ft.; local time, 49^m slow.]

18.5	19.1	19.2	18.8	17.3	16.2	15.0	14.4	14.0	13.7	13.4	14.8	20.5	8.6	Jan.
18.0	18.5	19.0	18.3	17.5	16.7	16.0	15.0	14.2	13.9	13.4	14.1	21.6	7.4	Feb.
25.0	25.5	25.5	25.1	24.5	23.3	22.2	21.3	20.5	20.3	20.1	21.2	28.4	13.2	Mar.
43.4	43.2	43.0	43.3	42.9	42.0	41.0	40.1	39.4	39.2	39.1	40.6	47.1	33.6	Apr.
59.8	59.9	58.9	56.6	56.1	54.6	53.3	53.1	51.8	51.2	51.0	53.7	63.4	43.2	May.
65.8	64.6	63.9	62.1	59.9	59.8	58.9	58.6	58.3	57.6	57.2	60.2	69.9	50.2	June.
67.9	67.7	66.8	65.9	65.0	64.5	63.6	62.2	61.5	60.7	60.0	62.7	71.7	53.7	July.
68.0	68.6	68.3	68.2	67.8	66.4	64.0	62.2	61.2	60.9	60.8	63.7	71.6	55.9	Aug.
66.0	65.8	65.9	65.1	64.1	62.5	60.5	60.0	59.0	58.4	57.7	60.1	68.9	51.3	Sept.
44.4	45.0	44.9	44.2	42.9	41.8	41.3	40.5	39.9	39.4	39.1	40.7	47.2	34.2	Oct.
35.1	35.5	35.4	34.9	33.6	32.7	32.4	32.2	32.0	31.7	31.5	31.9	37.6	25.6	Nov.
27.3	27.7	27.9	27.1	26.3	25.5	25.0	24.6	24.2	24.0	23.6	24.8	29.6	19.9	Dec.
44.9	45.1	44.9	44.1	43.2	42.2	41.1	40.4	39.7	39.2	38.9	40.7	48.1	33.1	Year.

MEMPHIS, TENN.

[h_t=108 ft.; 140 ft. (*a*); local time, 1^h 0^m slow.]

40.8	41.4	41.8	41.9	41.5	40.7	39.8	39.3	38.8	38.1	37.4	37.8	45.0	30.5	Jan.
38.1	39.1	39.9	39.8	39.5	38.6	37.8	36.9	36.1	35.5	34.7	34.3	42.3	26.8	Feb.
57.3	58.3	59.1	59.1	58.3	57.4	55.8	54.5	53.5	52.3	51.4	52.2	62.3	43.6	Mar.
69.9	70.8	71.2	71.4	71.1	69.0	67.3	65.7	64.2	62.8	61.6	63.9	73.9	53.8	Apr.
75.0	75.5	75.8	76.0	75.5	74.5	72.4	70.5	68.7	67.2	65.9	68.8	78.8	59.4	May.
84.6	84.2	85.0	85.1	84.2	84.1	81.1	78.9	77.4	76.3	75.2	78.3	88.1	69.3	June.
82.1	82.7	83.3	83.3	82.8	80.6	79.1	77.9	77.2	76.3	75.3	77.5	86.2	70.9	July.
85.5	86.3	86.5	86.5	86.2	84.4	82.4	80.8	79.5	78.0	76.7	79.3	89.3	70.7	Aug.
82.4	82.6	83.1	83.2	83.0	81.3	79.2	77.6	76.2	75.0	74.2	76.6	87.0	68.7	Sept.
65.6	66.7	67.5	67.5	66.6	64.5	62.5	61.0	59.2	57.6	56.2	58.3	69.1	47.8	Oct.
55.3	56.6	57.0	57.0	56.4	55.2	53.9	52.7	51.6	50.8	49.9	51.2	59.5	43.5	Nov.
46.4	47.5	48.3	48.5	48.0	47.2	46.4	45.6	44.9	44.0	43.3	43.7	51.6	37.3	Dec.
65.2	66.0	66.5	66.6	66.1	64.8	63.1	61.8	60.6	59.5	58.5	60.2	69.4	51.9	Year.

a Elevation changed July 1.

NEW ORLEANS, LA.

[h_t=112 ft.; local time, 1^h 0^m slow.]

56.2	56.1	56.7	56.6	55.9	54.5	53.2	52.3	51.6	51.0	50.5	52.0	59.8	44.5	Jan.
48.0	48.5	49.1	49.3	48.6	47.9	46.6	46.0	45.4	44.8	44.3	44.6	52.5	37.6	Feb.
67.2	68.1	68.3	68.0	66.9	65.3	63.4	62.0	60.9	60.1	59.3	61.7	70.1	54.4	Mar.
73.2	73.4	73.6	73.5	72.2	70.6	68.5	67.1	65.9	64.9	64.3	67.3	75.9	59.6	Apr.
78.5	77.8	78.4	78.1	77.4	76.2	74.5	73.1	72.2	71.2	70.7	73.4	81.0	66.8	May.
84.0	84.0	83.8	83.3	81.9	80.8	79.5	78.5	77.7	77.1	76.5	79.5	87.6	73.1	June.
85.8	85.9	85.5	85.7	84.2	82.6	81.2	80.2	79.5	79.1	78.7	81.3	89.0	74.8	July.
85.0	85.5	85.2	84.2	83.1	82.1	80.6	79.9	79.1	78.6	78.1	80.7	88.2	75.0	Aug.
85.1	85.5	85.3	85.3	84.4	83.0	81.1	80.2	79.1	78.6	77.9	80.7	88.5	74.9	Sept.
74.5	75.1	75.7	75.5	74.4	72.4	70.4	69.1	68.0	67.1	65.8	68.5	76.8	60.4	Oct.
65.7	66.1	65.8	65.4	64.4	62.7	61.2	59.9	59.2	58.5	57.8	59.9	67.9	53.1	Nov.
59.5	60.2	60.4	59.9	57.8	56.0	54.4	53.4	52.5	51.6	51.3	53.4	62.1	45.5	Dec.
71.9	72.2	72.3	72.1	70.9	69.5	67.9	66.8	65.9	65.2	64.6	66.9	75.0	60.0	Year.

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

NEW YORK, N. Y.

[λ=40° 43′ N.; φ=74° 0′ W.]

1895.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	27.8	27.8	27.8	27.6	27.6	27.8	28.3	28.3	28.9	29.8	30.9	31.6	32.0
Feb	22.8	22.4	22.0	21.6	21.1	21.1	21.1	21.4	22.4	23.6	24.7	26.3	27.5
Mar	34.7	34.2	33.6	33.2	32.8	32.5	32.6	33.1	34.1	35.5	37.0	38.1	39.3
Apr	45.5	44.7	44.4	44.0	44.0	44.0	44.5	45.6	46.8	47.6	48.8	49.9	50.8
May	56.5	56.2	55.7	55.2	54.9	55.0	55.4	56.7	58.4	60.1	61.5	62.5	63.2
June ...	66.8	66.4	66.1	65.7	65.6	66.0	66.7	68.2	70.2	71.6	73.4	73.8	74.6
July	68.3	67.7	66.8	66.4	65.9	65.8	66.4	67.6	69.5	71.3	72.7	73.7	74.7
Aug	70.8	70.1	69.4	69.0	68.6	68.6	69.5	70.8	72.8	74.8	76.5	77.9	79.1
Sept....	66.8	66.2	65.8	65.4	64.8	64.3	64.7	65.8	67.2	69.4	71.6	73.4	74.7
Oct.....	49.2	48.5	47.9	47.4	47.2	46.6	46.6	47.5	48.9	50.6	52.7	54.3	55.3
Nov	44.2	43.9	43.6	43.4	43.1	43.0	42.9	43.1	43.6	44.4	45.8	46.8	47.9
Dec	35.0	34.6	34.4	34.1	33.9	33.8	33.7	33.6	34.5	35.2	36.2	37.6	38.6
Year....	49.0	48.6	48.1	47.8	47.5	47.4	47.7	48.5	49.8	51.2	52.6	53.8	54.8

PHILADELPHIA, PA.

[λ=39° 57′ N.; φ=75° 9′ W.]

Jan	29.3	29.2	28.9	28.9	28.7	28.4	28.3	28.8	29.5	30.1	31.4	32.3	32.9
Feb	23.2	22.6	21.8	21.6	21.4	21.0	20.5	21.5	22.8	24.0	25.9	27.4	28.9
Mar	36.2	35.5	35.1	34.5	34.0	34.0	33.8	35.1	35.9	37.3	38.8	40.4	41.7
Apr	46.7	46.2	45.7	45.4	45.0	45.0	45.8	47.9	49.7	51.7	53.5	55.0	56.4
May....	57.0	56.5	56.3	55.9	55.5	55.7	56.6	58.8	60.6	62.5	64.2	65.7	66.9
June ...	67.7	67.2	66.7	66.3	65.9	66.2	67.7	69.9	71.6	73.5	75.2	77.1	78.6
July....	68.0	67.4	66.9	66.4	66.1	66.3	67.5	69.6	71.6	73.3	75.1	76.6	77.9
Aug	71.3	70.8	70.3	69.7	69.5	69.3	70.5	72.8	75.4	77.9	80.3	81.8	83.2
Sept....	67.7	66.9	66.6	65.8	65.1	64.8	65.3	67.1	69.3	71.8	74.4	76.2	77.8
Oct.....	49.0	48.5	47.8	47.3	46.8	46.4	46.5	48.5	50.3	52.4	54.3	56.4	57.8
Nov	44.7	44.2	43.7	43.3	43.1	42.9	42.8	43.6	44.5	45.9	47.2	48.6	49.9
Dec	36.7	36.1	35.5	35.4	35.2	35.0	34.9	35.5	36.3	37.6	39.1	40.6	41.7
Year....	49.8	49.3	48.8	48.4	48.0	47.9	48.4	49.9	51.5	53.2	55.0	56.5	57.8

PITTSBURG, PA.

[λ=40° 32′ N.; φ=80° 2′ W.]

Jan	26.6	26.5	26.3	25.9	25.5	25.5	25.7	25.7	25.8	26.3	27.9	29.0	30.1
Feb	20.3	19.9	19.4	19.1	18.9	18.8	18.8	19.1	19.4	20.6	22.0	23.7	25.1
Mar	34.9	34.1	33.4	32.9	32.3	31.9	31.8	32.3	33.5	35.4	36.9	38.5	40.0
Apr	50.1	49.1	48.3	47.6	46.9	46.5	46.5	48.0	50.0	52.5	54.8	56.7	58.5
May	58.7	57.9	56.9	56.2	55.5	55.0	56.1	58.7	62.4	65.0	66.5	68.3	69.7
June ...	70.4	69.1	68.0	67.2	66.6	66.1	67.0	70.3	73.1	75.7	77.8	79.0	80.3
July....	67.9	66.6	65.9	65.2	64.6	64.2	64.8	67.0	68.7	71.1	73.7	75.4	77.0
Aug	69.5	68.6	67.8	67.1	66.6	66.3	66.4	69.4	71.5	74.8	77.2	79.2	81.3
Sept....	67.1	66.5	65.6	65.2	64.7	64.1	63.9	66.0	68.3	71.2	73.2	75.6	77.2
Oct.....	46.1	45.5	44.7	44.3	44.0	43.3	43.1	44.2	46.1	49.0	51.8	54.0	55.5
Nov	42.1	41.8	41.4	41.1	40.8	40.5	40.4	40.6	41.6	43.5	46.4	48.6	50.5
Dec	35.9	35.7	35.3	34.8	34.7	34.6	34.9	35.1	35.6	36.7	38.2	39.6	40.8
Year....	49.1	48.4	47.8	47.2	46.8	46.4	46.6	48.0	49.7	51.8	53.9	55.6	57.2

PORTLAND, OREG.

[λ=45° 32′ N.; φ=122° 43′ W.]

Jan	37.4	37.1	36.5	36.7	36.5	36.2	36.1	35.8	35.5	35.4	35.4	35.7	36.4
Feb	41.9	41.1	40.6	40.2	39.8	39.8	39.6	39.4	38.9	38.8	39.3	40.2	41.5
Mar	45.1	44.1	43.3	42.5	41.5	40.9	40.3	39.8	39.7	39.4	40.1	41.6	43.9
Apr	50.8	49.9	48.5	47.8	46.8	45.8	45.2	44.5	44.2	45.1	47.0	49.0	51.2
May	54.2	53.5	52.4	51.7	50.9	50.2	49.3	49.3	49.7	50.8	52.2	54.1	55.9
June ...	60.7	59.3	57.6	56.7	55.2	54.1	52.8	53.0	53.4	55.7	57.8	59.5	61.7
July....	65.0	63.5	61.9	60.6	59.3	58.4	57.2	56.6	56.8	58.1	60.1	62.1	64.5
Aug	65.7	64.1	61.9	60.9	59.3	57.7	56.6	55.5	55.3	55.7	57.9	60.0	63.1
Sept....	56.6	55.8	54.4	53.7	52.9	52.1	51.4	51.2	50.2	50.9	52.4	54.0	56.6
Oct.....	54.7	53.9	52.7	52.1	50.6	49.8	49.3	49.0	47.8	47.6	48.6	50.5	53.3
Nov	43.4	42.8	42.3	42.1	41.4	40.8	40.3	40.3	39.9	39.5	40.1	41.5	43.1
Dec	40.5	40.2	40.1	40.2	39.9	40.0	39.9	40.0	39.7	39.6	39.3	40.0	40.0
Year....	51.3	50.4	49.4	48.8	47.8	47.2	46.5	46.2	45.9	46.4	47.5	49.0	50.9

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

NEW YORK, N. Y.

[h_t=183 ft.; 298 (*a*); local time, 4^m fast.]

2^h	3^h	4^h	5^h	6^h	7^h	8^h	9^h	10^h	11^h	Mid.	Mean.	Mean max.	Mean min.	1895.
32.1	32.1	31.8	31.2	30.4	30.1	29.4	29.0	28.9	28.6	28.5	29.5	37.1	23.1	Jan.
29.0	29.6	29.4	29.0	28.5	27.6	27.0	26.1	25.3	25.1	24.4	25.0	32.0	18.4	Feb.
39.8	40.4	40.5	40.4	39.6	38.6	38.0	37.1	36.3	35.8	35.0	36.3	43.8	28.9	Mar.
51.3	51.3	51.5	50.9	49.7	49.0	48.5	47.7	47.4	46.9	46.4	47.6	54.6	40.8	Apr.
63.7	63.3	63.2	62.8	61.9	61.1	60.3	59.3	58.8	58.3	57.7	59.2	67.5	51.4	May.
74.9	74.5	73.9	72.8	71.4	70.2	69.0	68.1	67.7	67.3	66.9	69.7	77.2	62.8	June.
74.8	75.5	75.7	75.2	74.5	73.1	72.2	71.2	70.0	69.3	68.9	70.7	78.0	63.5	July.
79.7	79.3	79.0	78.0	76.6	75.1	74.6	73.6	73.1	72.3	71.7	73.8	81.3	66.4	Aug.
75.5	75.7	75.8	74.7	73.4	72.0	70.8	69.6	68.6	67.7	66.9	69.6	77.8	61.6	Sept.
55.9	55.8	55.9	55.2	54.3	53.7	52.9	52.3	51.3	50.4	49.6	51.3	58.6	43.5	Oct.
48.1	48.9	48.8	47.6	47.2	46.3	45.6	45.1	44.9	44.6	43.9	45.3	52.5	39.4	Nov.
39.7	39.8	39.8	39.4	38.8	38.2	37.7	36.9	36.5	36.0	35.5	36.4	42.9	30.9	Dec.
55.4	55.5	55.4	54.8	53.9	52.9	52.2	51.3	50.7	50.2	49.6	51.2	58.6	44.2	Year.

a Elevation changed March 15.

PHILADELPHIA, PA.

[h_t=168 ft.]

33.3	33.4	33.3	32.7	31.9	31.3	31.0	30.5	30.2	29.9	29.6	30.6	37.2	24.0	Jan.
29.8	30.4	30.6	30.1	29.0	28.2	27.3	26.6	25.9	25.4	24.7	25.4	32.3	18.6	Feb.
42.2	43.1	43.5	43.3	42.5	41.2	40.7	39.5	38.7	37.7	36.9	38.4	45.7	30.5	Mar.
57.0	57.2	57.0	56.4	55.5	53.3	51.6	50.0	49.1	48.4	47.8	50.7	60.2	43.1	Apr.
68.1	68.5	68.8	68.4	67.3	65.2	63.3	61.5	60.2	59.2	58.4	61.7	71.5	53.3	May.
80.0	80.5	79.9	79.0	77.7	75.7	73.5	71.6	70.5	69.5	68.5	72.5	83.4	64.8	June.
78.6	79.0	79.1	78.7	77.4	75.8	74.1	72.1	70.8	69.5	68.5	72.3	81.8	64.7	July.
83.9	84.2	83.5	82.8	81.4	79.2	77.4	75.5	74.3	73.5	72.5	76.3	86.8	68.1	Aug.
78.8	79.2	78.9	78.0	75.7	73.3	71.5	70.2	69.3	68.3	67.4	71.2	81.6	63.1	Sept.
58.8	59.4	59.0	57.8	56.4	54.9	53.7	52.8	51.8	50.8	49.8	52.4	61.3	44.0	Oct.
51.0	51.5	51.3	50.2	48.8	47.7	47.1	46.1	45.8	45.2	44.8	46.4	53.8	39.8	Nov.
42.6	43.1	43.0	42.4	41.4	40.5	39.8	39.1	38.5	37.6	37.3	38.6	46.0	32.3	Dec.
58.7	59.1	59.0	58.3	57.1	55.5	54.2	53.0	52.1	51.2	50.5	53.0	61.8	45.5	Year.

PITTSBURG, PA.

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

30.9	30.9	30.7	30.3	30.0	29.3	28.8	28.3	27.9	27.4	27.0	27.8	34.6	19.5	Jan.
25.9	26.6	26.6	26.4	25.8	25.0	24.6	24.0	23.5	23.0	22.3	22.5	29.8	15.7	Feb.
40.9	41.3	41.5	40.9	40.4	39.4	38.6	37.7	36.9	36.2	35.4	36.5	45.2	27.6	Mar.
59.4	59.8	60.4	60.3	59.7	58.3	56.5	55.1	53.8	52.8	51.7	53.5	62.6	44.7	Apr.
70.2	71.0	71.2	70.4	69.3	68.1	66.3	64.9	63.2	61.9	60.3	63.5	73.6	53.0	May.
81.1	81.9	82.0	81.9	80.9	79.4	77.1	75.8	74.1	72.5	70.9	74.5	84.3	65.1	June.
77.9	78.7	78.7	78.7	78.0	77.0	75.0	73.5	71.6	70.1	69.1	71.7	80.9	62.4	July
81.6	82.5	82.3	82.2	80.3	78.9	76.9	75.2	73.6	71.8	70.5	74.2	85.3	63.7	Aug
77.7	77.8	77.8	76.7	75.9	74.4	72.9	71.2	69.7	68.6	67.4	70.8	80.3	61.8	Sept.
56.5	57.2	57.4	56.5	55.4	54.0	52.4	50.8	49.5	48.1	46.8	49.8	59.2	40.5	Oct.
51.0	51.5	51.3	50.4	49.1	47.4	46.3	45.0	44.1	43.5	42.6	45.1	54.2	36.7	Nov.
41.4	41.7	41.3	40.7	39.9	39.1	38.5	38.2	37.5	36.7	36.0	37.6	44.2	30.6	Dec.
57.9	58.4	58.4	58.0	57.1	55.9	54.5	53.3	52.1	51.0	50.0	52.3	61.2	43.4	Year.

PORTLAND, OREG.

[h_t=203 ft.; local time, 3^h 11^m slow.]

37.1	38.0	38.9	39.0	39.2	39.0	38.8	38.3	38.4	38.0	37.9	37.2	42.1	32.5	Jan.
42.6	44.0	45.4	46.4	47.0	47.4	47.3	46.1	45.2	44.2	43.2	42.5	48.6	37.1	Feb.
45.9	47.9	49.5	50.9	51.7	52.3	51.8	50.2	48.9	47.5	46.1	45.2	54.1	37.7	Mar.
53.1	54.7	56.2	57.8	58.7	58.3	57.9	57.1	55.9	53.7	52.3	51.3	61.2	41.8	Apr.
57.1	58.9	59.9	61.0	61.9	61.7	61.4	60.2	58.9	56.9	55.5	55.3	64.0	47.8	May.
63.5	65.9	67.3	68.8	70.2	71.1	70.3	69.1	67.9	65.1	63.1	61.7	72.7	51.7	June.
66.7	68.6	70.5	72.1	73.5	74.4	74.4	73.4	71.6	69.1	67.0	65.2	75.8	55.5	July.
65.9	69.1	71.5	73.9	75.2	75.5	75.1	73.5	71.6	69.4	67.4	65.1	76.9	53.8	Aug.
58.4	60.7	62.0	63.5	64.0	63.7	63.4	61.5	60.0	58.6	57.7	56.9	65.7	49.1	Sept.
56.2	59.6	61.8	64.0	64.5	63.9	62.9	60.4	58.7	57.0	55.5	55.2	65.9	46.2	Oct.
44.4	46.1	47.0	48.0	48.3	47.9	47.1	46.3	45.4	44.5	44.0	43.6	50.3	37.4	Nov.
40.7	40.9	41.9	42.2	42.5	42.0	42.0	41.7	41.2	41.0	40.3	40.7	45.1	36.6	Dec.
52.6	54.5	56.0	57.3	58.1	58.1	57.7	56.5	55.3	53.8	52.5	51.7	60.2	43.9	Year.

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

ST. LOUIS, MO.

[λ=38° 38′ N.; φ=90° 12′ W.]

1895.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	25.6	25.3	24.6	24.0	23.9	23.4	22.7	22.1	22.0	22.6	24.0	26.0	27.6
Feb	23.1	22.4	22.1	21.5	20.9	20.3	19.8	19.5	20.0	21.2	23.1	25.4	27.4
Mar	41.6	40.6	39.9	39.1	38.4	38.0	37.8	37.9	38.7	40.6	42.5	45.3	47.1
Apr	56.4	55.6	54.9	54.1	53.3	52.4	52.2	53.3	55.1	57.6	60.3	62.8	64.5
May....	63.6	62.4	61.4	60.5	59.6	58.8	59.1	60.7	62.8	65.2	67.4	69.7	71.2
June ...	73.5	72.6	71.7	71.1	70.2	69.7	70.3	72.4	74.5	76.4	78.7	80.6	81.9
July....	73.0	72.5	71.5	71.3	70.5	70.0	69.8	71.1	73.0	75.1	77.1	79.0	80.4
Aug	74.9	74.1	73.2	72.4	71.4	70.8	70.9	72.3	74.5	77.1	79.4	81.5	82.8
Sept....	70.6	69.8	69.2	68.3	67.2	66.6	66.1	66.5	68.1	70.8	73.9	77.0	79.0
Oct.....	51.0	49.8	48.8	47.9	47.0	46.5	46.0	45.9	47.7	50.7	53.9	56.7	58.4
Nov	41.7	41.2	40.7	40.0	39.5	39.2	38.8	38.5	39.1	40.8	42.8	44.6	46.0
Dec	36.3	36.0	35.5	35.4	34.8	34.7	34.5	34.6	34.6	35.5	36.6	37.8	38.7
Year....	52.6	51.9	51.1	50.5	49.7	49.2	49.0	49.6	50.8	52.8	55.0	57.2	58.8

ST. PAUL, MINN.

[λ=44° 58′ N.; φ=93° 3′ W.]

Jan	6.2	6.0	5.4	4.9	4.2	3.8	3.2	3.0	2.5	2.2	3.2	4.8	6.7
Feb	8.5	7.7	6.7	6.2	5.6	5.2	4.8	4.8	4.7	6.0	8.7	11.0	13.4
Mar	26.8	25.9	25.2	24.1	23.4	22.6	21.9	21.4	22.1	24.1	26.9	29.0	31.2
Apr	48.4	47.3	46.1	45.2	44.5	43.8	43.2	44.1	45.8	48.5	52.0	54.5	57.2
May....	54.8	53.9	53.1	52.5	52.1	51.8	52.1	54.2	56.3	58.6	61.1	62.9	64.4
June ...	63.4	62.2	61.1	60.2	59.2	58.6	59.0	61.5	63.3	65.4	67.9	69.7	71.1
July....	65.5	64.5	63.4	62.1	60.9	60.2	60.7	63.5	65.6	68.6	71.6	73.8	75.6
Aug	64.6	63.3	62.3	61.6	60.9	59.8	59.5	61.5	64.9	68.7	71.6	73.7	75.9
Sept....	61.3	60.7	60.0	59.3	58.7	58.0	57.0	57.0	59.2	61.7	64.2	66.5	68.0
Oct.....	40.6	39.9	39.2	38.3	37.5	36.9	36.4	36.0	37.5	40.1	43.9	46.3	48.5
Nov	29.3	28.6	27.8	27.2	26.8	26.9	26.5	26.2	26.1	27.5	30.1	32.1	33.9
Dec	21.8	21.5	21.1	20.4	19.7	19.3	18.6	18.2	17.7	17.6	19.2	21.0	22.8
Year....	40.9	40.1	39.3	38.5	37.8	37.2	36.9	37.6	38.8	40.8	43.4	45.4	47.4

SALT LAKE CITY, UTAH.

[λ=40° 46′ N.; φ=114° 54′ W.]

Jan	27.2	26.8	26.5	26.4	26.3	26.3	25.7	26.3	25.7	25.8	26.3	28.1	30.1
Feb	27.4	26.8	26.6	26.4	26.5	26.2	25.9	25.0	24.5	24.1	25.7	28.0	30.9
Mar	38.3	37.0	36.3	35.8	34.8	35.3	35.1	34.7	34.1	35.8	38.5	41.4	43.6
Apr	49.3	48.4	47.8	46.4	46.0	45.5	44.0	43.6	44.7	47.6	51.9	54.8	56.5
May....	55.9	55.6	54.3	52.9	52.1	51.3	50.5	51.3	53.1	56.2	59.4	61.0	62.4
June ...	60.7	58.3	57.7	56.1	55.3	54.8	54.1	54.8	57.2	60.8	64.7	67.8	70.1
July....	70.2	68.5	67.4	66.9	66.0	64.7	64.5	64.6	66.5	69.3	72.9	76.3	78.1
Aug	72.5	71.1	70.1	68.4	67.8	66.4	65.6	65.0	66.6	70.5	74.9	79.9	82.9
Sept....	61.3	60.3	59.5	58.5	58.1	57.1	56.3	56.0	56.6	59.3	63.8	67.2	69.3
Oct.....	51.9	50.9	50.2	49.4	49.2	47.8	47.0	46.9	46.7	49.1	52.9	57.4	60.7
Nov	34.8	34.2	33.5	33.3	33.6	33.8	33.1	33.4	33.3	33.9	35.5	38.2	40.0
Dec	25.1	24.9	24.6	24.5	24.6	24.5	23.9	23.7	23.4	23.1	23.5	24.9	27.0
Year....	47.9	46.9	46.2	45.4	45.0	44.5	43.8	43.8	44.4	46.3	49.2	52.1	54.3

SAN DIEGO, CAL.

[λ=32° 43′ N.; φ=117° 10′ W.]

Jan	50.8	50.5	49.9	49.5	49.2	48.7	48.7	48.3	48.3	47.9	49.0	52.1	55.3
Feb	52.4	52.1	51.9	51.6	51.0	50.7	50.8	50.4	50.4	50.4	52.8	55.2	57.4
Mar	51.9	51.4	51.1	50.8	50.6	50.6	50.6	50.3	50.1	50.7	53.1	55.3	56.9
Apr	54.7	53.9	53.8	53.2	53.1	52.4	52.0	52.0	51.7	53.7	55.9	57.9	60.1
May....	59.7	59.4	59.2	59.0	58.7	58.4	58.2	58.1	58.5	59.6	61.0	62.2	63.3
June ...	60.5	60.0	59.8	59.7	59.4	59.4	59.2	59.1	59.9	60.7	62.2	63.5	64.8
July....	63.0	62.9	62.6	62.7	62.5	62.3	62.3	62.3	62.5	63.5	64.8	66.0	66.9
Aug	64.7	64.5	64.3	64.2	64.2	64.1	63.9	63.7	63.9	64.7	66.2	67.8	69.0
Sept....	64.2	63.8	63.2	63.0	63.0	62.8	62.8	62.6	62.9	63.8	65.6	67.9	70.7
Oct.....	62.2	62.0	61.8	61.7	61.3	61.3	60.9	61.0	60.6	61.2	63.0	64.6	66.6
Nov	57.5	56.4	55.8	55.3	54.8	54.6	53.9	53.5	53.0	54.5	59.0	62.1	64.4
Dec	51.7	51.3	50.4	50.2	49.6	49.5	48.9	49.2	48.5	48.3	51.5	55.7	59.1
Year....	57.8	57.4	57.0	56.7	56.4	56.2	56.0	55.9	55.9	56.6	58.7	60.9	62.9

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

ST. LOUIS, MO.

[h_t=110 ft.; local time, 1h 1m slow.]

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1895.
29.4	30.5	31.0	30.8	30.2	28.9	28.0	27.5	26.9	26.4	26.0	26.2	33.5	19.0	Jan.
28.7	30.0	30.8	31.1	30.4	29.5	28.3	27.5	26.4	25.7	24.9	25.0	32.1	18.1	Feb.
48.7	50.1	50.9	50.9	50.3	49.3	47.5	46.2	44.9	43.5	42.5	43.8	53.0	35.2	Mar.
66.0	66.9	67.1	66.3	65.6	64.5	62.7	61.3	60.0	58.8	57.8	59.6	69.3	50.3	Apr.
72.7	73.8	74.2	74.1	72.8	72.0	70.4	68.7	67.4	66.2	64.8	66.6	76.1	57.0	May.
83.1	83.7	84.0	83.6	82.6	81.6	79.9	78.3	77.0	75.2	74.0	76.9	86.1	68.1	June.
80.9	81.7	81.9	81.7	80.7	80.0	78.7	76.9	75.7	74.6	73.7	75.9	84.6	68.1	July.
83.7	84.2	84.1	84.0	83.6	82.6	81.2	79.5	78.4	76.9	75.8	77.9	86.5	69.3	Aug.
80.2	81.1	81.8	81.7	80.8	79.4	77.0	75.3	73.7	72.1	71.2	73.6	83.4	64.8	Sept.
60.1	61.4	62.0	61.8	60.8	58.9	57.5	55.7	54.5	53.0	51.9	53.7	63.3	43.8	Oct.
47.0	48.0	48.4	48.3	47.5	46.2	45.4	44.3	43.5	42.8	42.3	43.2	50.2	36.2	Nov.
39.7	40.6	41.0	40.5	39.6	38.7	38.0	37.3	36.9	36.7	36.2	37.1	43.2	30.9	Dec.
60.0	61.0	61.4	61.2	60.4	59.3	57.7	56.5	55.4	54.3	53.4	55.0	63.4	46.7	Year.

ST. PAUL, MINN.

[h_t=114 ft.; local time, 1h 12m slow.]

8.5	9.7	10.5	10.7	10.4	9.6	8.7	7.8	7.0	6.5	6.0	6.3	14.5	—2.4	Jan.
14.8	17.0	18.0	18.3	17.9	16.4	15.0	14.2	13.2	12.0	11.1	10.9	20.3	1.1	Feb.
32.8	34.2	34.9	35.2	35.0	34.4	32.7	31.5	30.0	28.9	28.0	28.4	37.5	18.8	Mar.
59.0	60.0	60.6	60.9	60.5	59.9	57.6	55.7	53.9	52.2	50.7	52.1	63.1	41.5	Apr.
65.1	65.5	65.4	65.1	64.6	63.7	61.8	60.3	58.5	57.3	56.0	58.8	68.6	48.6	May.
71.3	72.2	72.9	74.2	73.9	73.7	72.2	70.4	68.4	66.3	64.8	66.8	76.4	57.4	June.
77.0	78.1	78.7	79.1	79.0	76.8	75.4	73.0	70.8	68.9	67.2	70.0	81.1	59.0	July.
77.1	77.5	77.8	78.4	78.0	76.6	74.1	70.5	68.7	67.4	65.8	69.2	81.2	58.5	Aug.
69.4	70.8	71.9	72.7	72.3	70.3	68.0	65.8	64.0	63.0	62.1	64.3	75.3	54.9	Sept.
49.7	51.3	51.5	51.3	50.4	48.2	46.5	44.7	43.2	42.1	40.9	43.4	53.6	33.8	Oct.
35.4	36.7	37.0	36.8	35.7	34.2	32.9	31.9	31.2	30.3	29.9	30.9	38.9	22.4	Nov.
24.0	25.0	25.3	25.1	24.3	23.2	22.8	22.1	21.7	21.5	21.4	21.5	27.8	14.4	Dec.
48.7	49.8	50.4	50.6	50.2	48.9	47.3	45.7	44.2	43.0	42.0	43.6	53.2	34.0	Year.

SALT LAKE CITY, UTAH.

[h_t=83 ft.; local time, 2h 27m slow.]

31.6	32.3	32.7	33.3	33.2	31.8	30.0	29.5	28.6	27.8	27.5	28.6	36.9	22.5	Jan.
32.7	33.8	34.9	35.1	35.2	34.4	32.4	30.8	29.5	28.6	28.0	29.1	38.2	21.9	Feb.
45.5	46.2	47.1	47.5	47.5	47.4	46.0	43.5	41.4	40.2	39.3	40.5	50.4	31.2	Mar.
57.8	59.0	59.6	59.8	59.7	59.1	58.3	56.9	54.6	52.3	50.9	52.3	62.9	39.5	Apr.
63.6	64.4	64.7	65.3	65.7	65.1	65.0	64.1	60.9	58.6	57.6	58.8	68.7	47.1	May.
71.5	72.1	72.4	73.1	73.8	73.8	73.1	72.0	67.7	65.2	63.0	64.6	75.7	51.3	June.
80.0	81.0	81.4	81.8	81.8	82.3	81.7	80.1	76.1	73.6	72.2	73.7	84.9	60.3	July.
84.9	85.5	86.3	86.5	86.7	86.1	84.6	82.2	78.1	76.1	74.1	76.4	88.4	61.3	Aug.
71.1	72.2	72.8	73.2	73.1	72.4	70.9	67.5	65.0	63.3	61.7	64.4	75.7	51.9	Sept.
62.9	63.6	64.4	64.7	63.9	62.4	58.9	56.1	54.4	53.2	51.8	54.8	66.3	42.3	Oct.
42.0	42.8	43.6	43.7	43.3	41.4	38.9	37.2	35.7	35.0	34.5	37.0	46.5	29.0	Nov.
28.4	29.1	30.1	30.0	29.7	28.9	27.8	27.1	26.2	25.6	25.4	26.1	33.5	19.3	Dec.
56.0	56.8	57.5	57.8	57.8	57.1	55.6	53.9	51.5	50.0	48.8	50.5	60.7	39.8	Year.

SAN DIEGO, CAL.

[h_t=73 ft., 59 ft. (*a*); local time, 2h 49m slow.]

56.6	57.4	57.9	58.4	58.5	57.5	56.5	54.7	53.6	52.5	51.7	52.6	61.2	45.1	Jan.
59.3	60.3	60.9	61.5	61.8	60.6	59.3	57.2	55.9	54.8	53.9	55.1	64.6	47.1	Feb.
58.0	58.9	59.2	59.6	59.3	58.8	58.0	55.7	54.6	53.4	52.9	54.3	62.8	47.9	Mar.
61.6	62.6	62.8	63.1	62.8	62.2	61.3	59.5	57.8	56.6	55.9	57.1	65.9	49.8	Apr.
64.3	64.8	64.9	64.6	64.4	63.8	63.2	61.8	60.9	60.3	60.0	61.2	67.3	56.5	May.
65.6	66.2	66.2	66.3	66.0	65.8	65.2	63.9	62.7	61.8	61.2	62.5	68.6	57.5	June.
67.5	68.4	68.8	68.7	68.5	68.0	67.6	66.2	64.5	64.0	63.6	65.0	70.6	60.7	July.
69.5	69.7	69.7	69.9	69.7	69.2	68.7	66.8	65.6	65.1	64.8	66.4	72.5	61.7	Aug.
71.2	71.9	72.3	72.6	72.3	71.3	70.1	68.1	66.9	66.0	65.3	66.8	75.1	59.7	Sept.
67.5	68.0	68.4	68.4	68.4	67.5	66.5	64.8	64.2	63.3	62.8	64.1	70.6	58.2	Oct.
65.7	66.1	66.3	66.0	65.6	64.2	62.8	60.7	59.4	58.2	57.5	59.5	68.7	50.1	Nov.
61.5	63.0	63.3	66.2	62.5	61.4	59.4	57.3	55.2	53.5	49.1	54.8	65.1	44.8	Dec.
64.0	64.8	65.1	65.4	65.0	64.2	63.2	61.4	60.1	59.1	58.2	60.0	67.8	53.3	Year.

a Elevation changed May 1.

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

SAN FRANCISCO, CAL.

[λ=37° 48′ N.; φ=122° 26′ W.]

1895.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.
Jan	48.2	47.7	47.3	47.2	46.8	46.4	46.0	45.9	45.5	46.0	46.5	47.7	48.2
Feb	52.3	51.8	51.5	50.9	50.5	50.0	49.4	49.1	48.7	48.8	49.5	50.6	52.4
Mar	50.5	50.2	49.8	49.5	49.3	48.7	48.4	48.4	48.1	48.4	49.1	50.0	51.3
Apr	51.5	51.3	51.3	50.8	50.3	50.1	50.0	50.0	50.1	50.9	52.5	54.3	56.0
May	54.2	54.0	53.6	53.4	53.0	52.9	52.6	52.4	53.2	54.2	56.2	57.8	59.6
June ...	53.0	53.1	52.9	52.6	52.8	52.8	52.6	52.6	53.6	55.7	57.7	60.2	62.0
July....	55.4	55.3	55.3	55.0	54.7	54.5	54.5	54.4	54.6	55.5	56.6	58.1	59.8
Aug	55.0	54.8	54.5	54.4	54.1	53.9	53.9	54.0	54.1	54.8	55.7	57.7	59.1
Sept....	57.6	57.2	57.1	56.7	56.4	56.2	55.9	55.7	55.3	56.3	57.9	59.8	61.6
Oct.....	55.6	55.3	54.8	54.6	54.6	54.4	53.7	53.6	53.6	53.7	55.2	57.0	58.5
Nov	54.4	54.2	53.7	53.4	53.4	52.6	52.2	52.1	52.1	52.0	52.7	54.0	55.4
Dec	48.5	48.0	47.7	47.1	46.9	46.6	46.1	45.5	45.4	45.3	46.1	47.0	48.0
Year....	53.0	52.7	52.5	52.1	51.9	51.6	51.3	51.1	51.2	51.8	53.0	54.5	56.0

SANTA FE, N. MEX.

[λ=35° 41′ N.; φ=105° 57′ W.]

Jan	25.5	25.0	24.5	23.8	23.5	23.1	23.4	23.1	22.6	23.2	27.0	29.2	31.4
Feb	24.4	23.7	22.5	22.0	21.5	21.1	20.7	20.9	20.6	22.4	25.6	27.5	29.4
Mar	36.5	35.6	34.8	34.2	32.9	32.2	31.4	31.0	32.4	36.3	38.8	41.3	43.4
Apr	45.7	44.7	43.4	42.0	40.8	39.8	38.5	39.4	43.4	46.6	49.3	51.3	53.6
May	50.5	49.4	48.2	47.4	46.3	45.6	45.2	46.6	50.5	52.8	54.5	56.5	58.2
June ...	58.7	57.8	56.5	55.6	54.1	53.3	52.7	55.8	59.6	61.7	63.9	66.0	68.2
July....	61.7	61.1	60.7	59.3	58.8	58.4	57.5	59.0	62.2	64.6	66.3	68.7	70.5
Aug	61.1	60.5	59.8	58.9	58.3	57.4	56.8	57.5	60.7	63.9	65.8	68.4	70.5
Sept....	60.4	59.5	57.9	57.2	56.2	54.8	54.0	53.7	57.1	61.0	63.5	66.2	68.4
Oct.....	46.5	45.8	44.9	44.1	43.0	42.0	41.3	41.2	41.6	46.6	49.2	51.9	53.4
Nov	31.9	31.3	30.9	30.2	29.7	29.3	28.6	28.3	28.4	31.4	34.0	36.5	38.2
Dec	23.2	22.8	22.1	21.5	21.1	20.5	19.9	20.4	19.3	21.0	24.6	26.9	29.1
Year....	43.8	43.1	42.2	41.4	40.5	39.8	39.2	39.7	41.5	44.3	46.9	49.2	51.2

SAVANNAH, GA.

[λ=32° 5′ N.; φ=81° 5′ W.]

Jan	47.3	47.2	46.9	46.7	46.1	45.6	45.1	44.8	46.2	48.6	51.1	52.9	54.3
Feb	38.9	38.2	37.8	37.6	37.4	37.1	37.0	37.6	39.6	42.3	45.1	46.9	48.0
Mar	55.0	54.5	53.7	52.8	52.2	51.5	51.5	53.2	55.6	58.4	60.6	62.9	64.0
Apr	59.8	59.2	58.7	58.1	57.5	57.3	58.2	60.8	63.3	66.5	68.9	70.5	71.0
May	67.0	66.3	66.0	65.5	64.9	64.7	66.0	68.4	71.6	73.9	75.6	76.4	77.6
June ...	73.6	72.9	72.5	71.9	71.4	71.7	74.0	77.4	80.5	82.8	84.9	86.6	86.0
July....	75.7	75.2	74.8	74.3	74.1	74.1	76.1	79.0	81.9	84.9	87.1	87.8	89.0
Aug	77.0	76.6	76.5	76.0	75.7	75.5	77.1	80.1	82.9	85.2	87.0	88.2	88.2
Sept....	73.9	73.2	72.7	72.0	71.6	71.1	71.8	74.4	78.1	81.0	83.0	84.0	84.9
Oct.....	60.9	59.9	59.4	58.7	58.2	57.6	57.9	60.2	64.5	68.3	71.2	73.2	74.3
Nov	54.5	53.9	53.4	52.9	52.5	52.0	51.7	52.8	55.4	58.6	60.9	63.0	64.4
Dec	46.2	45.5	45.2	44.6	43.8	43.6	43.5	44.7	47.5	51.5	54.6	56.9	58.6
Year....	60.8	60.2	59.8	59.3	58.8	58.5	59.2	61.1	63.9	66.8	69.2	70.8	71.7

WASHINGTON, D. C.

[λ=38° 54′ N.; φ=77° 3′ W.]

Jan	30.3	29.7	29.2	28.8	28.5	28.1	28.0	28.5	29.7	31.3	32.6	33.8	34.7
Feb	22.5	22.1	21.6	21.0	20.6	20.6	20.4	21.1	23.0	25.5	27.9	29.7	31.2
Mar	39.9	39.3	38.7	38.1	37.5	36.7	36.3	37.2	38.7	40.8	42.3	43.9	45.3
Apr	49.1	48.4	47.7	47.3	46.6	46.2	47.6	50.1	52.5	54.6	56.6	58.5	59.8
May	57.7	57.2	56.6	56.1	55.4	55.7	57.4	59.4	61.1	62.9	65.1	67.0	68.3
June ...	68.1	67.5	67.2	66.7	66.0	66.7	69.0	72.1	74.4	76.8	78.8	80.5	81.5
July....	67.3	66.5	65.8	65.4	65.0	65.2	67.1	69.6	72.3	74.6	76.7	77.8	78.9
Aug	70.8	70.5	69.4	68.5	67.8	67.7	69.6	73.2	76.4	79.3	81.2	83.2	84.6
Sept....	67.6	66.6	65.4	64.7	63.9	63.2	64.6	67.7	71.3	74.2	76.4	78.4	79.9
Oct.....	46.7	46.1	45.5	44.6	44.3	44.2	43.6	46.7	50.4	54.5	56.8	58.8	60.5
Nov	43.5	43.4	43.2	42.7	42.2	41.9	41.3	42.0	44.0	46.4	48.5	50.4	51.8
Dec	36.0	35.5	35.1	34.5	34.3	34.0	33.7	34.1	35.7	38.0	40.0	41.5	42.7
Year....	50.0	49.4	48.8	48.2	47.7	47.5	48.2	50.1	52.5	54.9	56.9	58.6	59.9

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

SAN FRANCISCO, CAL.

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

2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mid.	Mean.	Mean max.	Mean min.	1895.
49.0	49.9	50.6	51.3	51.5	51.2	50.8	50.1	49.8	49.2	48.6	48.4	53.0	44.3	Jan.
53.8	55.9	57.9	58.8	58.7	57.9	56.2	54.8	54.1	53.4	53.0	52.9	60.2	47.4	Feb.
52.8	53.8	54.7	55.2	54.9	55.0	54.1	52.7	52.1	51.5	51.2	51.2	57.1	47.2	Mar.
57.1	57.7	58.2	58.3	57.3	56.4	55.6	54.3	52.8	52.4	51.9	53.4	60.4	49.1	Apr.
60.7	61.3	62.2	61.9	61.3	60.5	59.7	58.6	57.0	55.5	54.9	56.7	63.9	51.4	May.
62.7	62.1	62.3	61.8	61.0	59.5	58.8	57.6	55.8	54.5	53.7	56.7	65.8	51.6	June.
61.0	61.4	61.8	61.9	61.1	60.2	59.3	58.3	57.2	56.2	55.8	57.4	63.4	53.5	July.
60.3	61.6	61.5	61.5	61.0	60.0	58.8	57.5	56.2	55.5	55.2	56.9	63.5	53.2	Aug.
63.7	65.1	65.7	66.0	64.9	63.4	62.0	60.4	59.6	58.9	57.9	59.6	67.2	54.2	Sept.
60.0	62.1	63.1	63.7	62.6	61.1	59.3	57.6	57.1	56.6	56.3	57.3	65.5	52.0	Oct.
57.5	59.2	60.8	60.9	60.9	59.7	57.8	56.7	55.5	55.2	55.2	55.5	62.4	49.9	Nov.
48.7	50.1	51.0	52.0	52.6	52.0	50.9	50.2	49.8	49.1	48.7	48.5	53.5	43.8	Dec.
57.3	58.4	59.2	59.4	59.0	58.1	56.9	55.7	54.8	54.0	53.5	54.5	61.3	49.8	Year.

SANTA FE, N. MEX.

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

32.3	33.3	33.6	34.5	34.0	32.5	27.9	28.0	26.7	26.2	25.8	27.6	36.4	20.0	Jan.
31.3	32.8	34.1	34.6	34.6	33.8	30.6	27.8	26.4	25.8	25.4	26.7	36.5	18.0	Feb.
45.3	46.7	47.5	48.2	48.6	47.4	45.3	41.3	39.3	37.5	36.5	39.4	50.0	29.5	Mar.
55.3	57.0	58.0	58.8	58.9	57.9	56.5	53.2	50.3	48.2	46.9	49.1	60.9	37.0	Apr.
59.8	61.4	62.5	63.2	63.3	62.4	61.1	58.5	55.4	53.5	53.4	54.4	65.5	43.7	May.
69.9	70.9	72.1	72.4	71.7	69.2	68.2	66.4	63.2	61.2	59.8	62.9	74.2	51.3	June.
72.4	73.5	74.0	73.4	73.1	71.7	69.9	68.0	65.3	64.3	62.9	65.7	76.9	55.6	July.
71.8	72.5	73.5	73.9	72.9	71.4	69.4	66.8	64.7	63.5	61.9	65.1	76.8	55.7	Aug.
70.5	71.8	72.9	73.3	72.9	71.9	69.6	65.2	63.7	62.1	60.9	63.5	74.8	52.4	Sept.
55.6	56.8	57.9	58.0	57.7	55.9	52.5	49.9	48.8	47.5	46.5	49.1	59.8	39.3	Oct.
39.7	40.7	41.9	41.7	40.8	38.1	35.6	34.2	33.6	33.1	32.4	34.2	44.0	26.1	Nov.
30.5	31.5	32.4	33.0	32.6	30.1	27.2	26.1	25.3	24.4	23.6	25.4	34.7	17.1	Dec.
52.9	54.1	55.0	55.4	55.1	53.5	51.2	48.8	46.9	45.6	44.7	46.9	57.5	37.1	Year.

SAVANNAH, GA.

[h_t=63 ft.; local time, 24^m slow.]

55.6	56.3	56.0	54.9	52.8	51.4	50.9	50.3	49.7	49.0	48.3	49.9	58.9	42.0	Jan.
49.0	49.7	49.1	48.3	46.5	44.5	43.2	42.3	41.6	41.0	40.1	42.5	51.0	34.6	Feb.
65.0	65.0	64.5	63.4	61.9	59.5	58.0	57.3	56.6	55.7	55.2	57.8	67.7	49.2	Mar.
71.1	70.6	70.3	69.1	67.4	64.8	63.4	62.8	61.9	61.3	60.8	63.9	73.6	55.5	Apr.
78.1	77.3	75.8	74.4	73.1	71.6	70.1	69.4	68.7	68.3	67.7	70.8	79.5	63.0	May.
85.8	85.5	84.8	83.6	81.8	79.9	77.4	76.5	75.6	75.0	74.2	78.6	88.9	70.0	June.
88.2	87.1	85.0	82.7	81.8	80.4	79.1	78.2	77.5	76.8	76.2	80.3	90.9	72.3	July.
88.0	87.4	86.0	83.4	82.1	81.0	79.4	78.6	78.1	77.6	77.3	81.0	90.6	73.8	Aug.
84.9	83.7	83.0	81.4	79.7	77.6	76.6	75.7	75.3	74.6	74.0	77.4	86.4	70.1	Sept.
75.3	75.2	74.3	72.3	69.4	67.3	65.9	64.7	63.8	62.9	61.7	65.7	76.4	56.4	Oct.
65.0	64.9	63.9	61.9	59.8	58.5	57.8	57.1	56.4	55.7	55.0	57.6	66.2	50.0	Nov.
59.5	59.6	58.8	55.9	53.7	52.3	51.1	49.8	48.8	48.0	46.8	50.4	60.9	41.2	Dec.
72.1	71.9	71.0	69.3	67.5	65.7	64.4	63.6	62.8	62.2	61.4	64.7	74.2	56.5	Year.

WASHINGTON, D. C.

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

35.4	36.0	35.8	35.4	34.5	33.8	33.1	32.5	32.3	31.6	31.0	31.9	38.6	24.7	Jan.
32.1	32.5	32.6	32.1	30.9	29.4	28.0	27.1	26.2	25.5	24.5	26.2	34.2	18.3	Feb.
46.6	47.5	47.9	47.5	46.5	44.6	43.4	42.5	41.9	41.0	40.2	41.9	50.0	33.7	Mar.
60.8	61.1	60.9	60.2	59.0	57.4	55.9	54.2	53.0	52.1	50.7	53.8	62.7	44.8	Apr.
69.0	69.5	69.3	68.5	67.6	65.8	63.8	62.3	61.4	60.4	59.3	62.4	71.9	53.2	May.
82.5	82.4	81.9	80.8	79.3	77.3	74.8	73.0	71.5	70.0	68.8	74.1	84.6	64.7	June.
79.8	80.0	79.7	78.6	77.0	74.9	72.8	71.5	70.0	68.9	67.9	72.2	82.1	63.5	July.
85.5	85.5	85.5	84.4	82.8	79.5	77.5	75.6	74.2	73.0	72.0	76.6	87.6	66.8	Aug.
81.2	81.1	80.8	79.5	77.2	74.0	71.4	69.9	68.7	68.0	67.3	71.8	83.0	61.9	Sept.
61.5	62.1	61.9	61.0	58.2	55.0	52.5	51.2	49.9	49.0	47.9	52.2	63.4	40.8	Oct.
52.9	53.7	53.1	51.6	49.8	48.2	46.2	45.2	44.3	43.6	43.1	46.4	54.6	38.3	Nov.
44.1	44.8	44.3	43.2	41.7	40.6	39.5	38.5	37.9	37.1	36.6	38.5	46.1	31.5	Dec.
61.0	61.4	61.1	60.2	58.7	56.7	54.9	53.6	52.6	51.7	50.8	54.0	63.2	45.2	Year.

Blank page retained for pagination

Blank page retained for pagination

WIND—VELOCITY AND FREQUENCY.

BISMARCK, N. DAK.

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

1895.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan	8.0	8.3	8.1	7.7	7.9	7.7	6.7	7.4	7.1	7.4	8.0	9.1	11.1	11.6	12.2	12.5	12.0
Feb	7.5	7.9	8.2	7.5	7.9	9.0	8.9	8.6	9.1	9.4	9.6	10.9	11.9	12.1	12.8	13.2	12.9
Mar	9.5	8.7	7.9	7.5	7.8	8.4	8.8	9.3	10.1	11.6	12.5	14.0	15.2	15.9	15.8	15.5	15.7
Apr	7.6	7.9	7.9	8.5	7.7	8.3	8.3	8.5	9.9	11.5	12.5	13.5	14.3	15.6	15.9	15.8	15.4
May	7.5	7.3	6.9	7.0	7.0	7.5	6.9	7.3	7.8	9.7	11.5	12.8	13.6	13.8	14.2	14.6	14.0
June	6.7	6.6	6.4	5.2	5.6	6.8	6.5	6.9	8.5	8.6	9.6	10.9	11.9	12.4	13.0	12.2	12.2
July	8.2	8.5	7.3	6.6	6.2	6.0	6.8	6.5	7.6	9.2	11.2	11.8	12.9	13.9	14.2	14.4	13.5
Aug	6.2	6.0	5.6	6.1	5.4	5.2	5.5	5.5	5.7	7.6	9.8	11.5	12.5	12.9	12.8	12.7	13.6
Sept	9.4	9.1	8.1	7.4	7.7	7.5	6.8	7.3	7.6	9.8	12.4	14.4	16.5	17.4	17.4	17.7	16.5
Oct	7.3	6.7	6.9	6.8	7.1	7.7	8.9	8.2	8.3	9.6	11.1	12.9	14.8	16.7	17.0	16.6	15.7
Nov	6.8	6.3	6.5	6.7	6.3	6.0	6.0	6.3	6.1	6.9	7.9	7.7	8.3	10.3	10.6	10.7	10.4
Dec	9.7	9.5	9.7	9.3	10.3	9.0	9.3	9.6	9.5	8.4	9.7	10.0	11.8	13.4	14.3	13.0	12.0
Year	7.9	7.7	7.5	7.2	7.2	7.4	7.4	7.6	8.1	9.1	10.5	11.6	12.9	13.8	14.2	14.1	13.7

BOSTON, MASS.

[λ=42° 21′ N.; φ=71° 4′ W.]

Jan	10.5	10.1	9.8	9.5	9.8	10.3	10.9	11.3	11.5	11.7	12.2	11.4	12.0	12.3	12.7	12.4	11.6
Feb	13.2	13.2	12.5	12.5	12.0	12.4	12.0	12.5	14.0	14.4	14.8	15.4	15.4	15.4	15.3	14.9	14.1
Mar	10.9	11.0	11.0	11.4	11.0	10.9	11.7	12.5	13.5	14.2	15.1	15.0	15.0	15.4	14.7	14.5	14.2
Apr	9.1	8.6	8.8	9.4	9.8	9.9	10.9	10.3	11.0	11.0	11.8	12.2	13.0	13.1	13.6	13.6	12.6
May	9.7	8.7	9.2	9.0	8.9	8.9	9.2	9.7	10.6	11.0	11.4	12.3	12.7	12.4	12.6	13.0	12.5
June	7.6	7.1	7.4	7.2	7.8	7.2	7.4	7.9	8.6	9.2	9.4	9.8	10.3	10.9	11.1	10.7	10.3
July	8.5	8.4	8.5	8.4	7.8	7.4	7.9	7.9	8.6	9.3	10.0	11.3	10.7	11.1	11.7	11.6	10.8
Aug	8.1	8.0	7.8	7.9	7.2	7.5	8.0	8.2	8.7	9.5	10.6	10.5	11.2	11.6	11.8	12.2	11.9
Sept	8.7	8.7	8.8	8.7	8.8	8.2	7.6	8.3	9.5	10.0	11.1	11.5	11.5	11.4	12.0	11.9	11.4
Oct	10.5	10.8	10.5	10.3	10.5	10.3	10.7	11.5	12.3	13.3	14.4	14.7	14.6	14.8	15.3	14.8	13.0
Nov	10.5	10.4	10.0	9.6	9.5	9.2	9.2	9.8	10.4	10.9	11.5	12.0	12.0	12.5	12.5	12.7	11.6
Dec	13.2	13.3	13.9	13.6	14.1	13.8	13.6	12.8	14.0	13.9	13.6	13.7	13.3	13.0	13.6	12.8	11.8
Year	10.0	9.9	9.8	9.8	9.8	9.7	9.9	10.2	11.1	11.5	12.2	12.5	12.6	12.8	13.1	12.9	12.2

BUFFALO, N. Y.

[λ=42° 53′ N.; φ=78° 53′ W.]

Jan	16.4	15.6	15.5	15.5	15.6	15.0	15.5	15.1	15.4	15.7	16.5	17.1	16.8	16.4	16.9	17.6	16.7
Feb	14.0	14.2	14.3	14.1	14.5	14.1	15.0	14.8	14.9	15.2	15.4	16.8	17.5	18.0	18.0	18.0	17.0
Mar	11.4	11.8	11.5	11.0	10.9	11.3	11.0	10.9	11.7	12.4	12.5	13.6	14.8	15.2	15.0	15.1	15.1
Apr	7.2	7.2	7.1	7.0	7.2	7.0	7.1	8.0	8.9	9.5	10.2	10.4	10.6	10.4	10.0	10.1	10.0
May	8.1	7.3	7.7	7.6	8.0	8.3	9.0	8.9	9.6	10.4	10.5	10.2	11.1	11.6	10.7	9.9	9.8
June	5.5	5.8	5.7	5.6	5.8	5.6	6.3	6.4	6.8	7.3	8.4	9.2	9.4	10.0	10.3	10.7	10.1
July	7.4	6.5	6.5	6.6	6.3	6.3	6.8	7.9	8.4	8.9	10.2	10.5	11.9	12.3	12.0	12.1	11.2
Aug	6.8	7.0	7.3	6.7	6.2	6.2	6.7	6.9	7.6	8.3	9.3	10.0	11.0	10.9	11.0	10.6	9.5
Sept	8.1	7.9	8.2	8.1	7.9	8.8	7.7	7.8	8.6	9.4	10.4	11.0	12.0	12.6	12.0	11.1	11.1
Oct	14.2	13.9	13.0	13.3	13.6	13.1	14.5	14.5	15.1	16.3	16.6	17.0	17.4	18.2	18.0	18.5	18.2
Nov	12.2	11.5	11.3	12.2	12.1	12.0	12.1	11.7	12.1	12.5	12.6	13.0	13.2	12.4	12.8	12.4	11.4
Dec	13.7	13.9	14.1	14.3	13.6	13.9	13.1	13.0	12.9	13.7	15.0	15.6	15.5	15.2	15.4	14.4	14.9
Year	10.4	10.2	10.2	10.2	10.1	10.1	10.4	10.5	11.0	11.6	12.3	12.9	13.4	13.6	13.5	13.4	12.9

CHICAGO, ILL.

[λ=41° 53′ N.; φ=87° 37′ W.]

Jan	16.8	16.7	17.1	17.1	17.6	17.2	17.0	16.6	16.8	17.4	17.7	17.7	19.7	18.9	19.2	19.3	20.4
Feb	18.2	18.1	18.2	17.7	17.7	16.4	17.1	17.4	18.1	18.3	18.6	18.6	19.4	19.6	19.9	19.8	19.8
Mar	17.9	19.1	19.5	19.1	18.3	19.3	19.7	20.1	20.4	20.2	21.5	22.5	22.7	23.0	22.5	23.4	22.5
Apr	17.0	17.1	16.6	17.0	17.7	18.8	17.9	17.9	18.2	18.6	18.5	18.8	18.8	19.2	20.0	20.2	19.6
May	16.8	16.6	16.9	17.0	17.1	16.5	15.7	15.9	16.2	17.0	18.3	18.6	18.5	19.2	19.9	19.6	19.8
June	13.5	14.1	14.0	13.8	13.3	13.7	13.0	12.8	13.0	13.2	14.6	14.8	15.4	15.1	15.1	15.0	14.7
July	13.2	14.1	15.5	15.2	15.2	14.6	14.4	13.3	13.3	12.6	13.6	13.8	15.2	14.7	15.4	15.5	15.9
Aug	12.5	13.2	13.4	14.1	13.4	12.9	12.5	12.6	11.8	11.7	13.3	13.7	14.1	14.4	14.6	15.5	15.6
Sept	18.4	19.0	18.4	18.6	19.1	18.7	18.4	17.7	17.4	18.3	19.2	20.3	21.2	20.4	20.6	20.7	20.4
Oct	17.8	17.8	18.5	18.4	17.4	16.5	16.3	16.0	16.1	16.9	17.1	17.8	18.9	18.4	19.4	18.6	17.6
Nov	18.9	18.5	18.7	18.1	18.0	18.5	18.7	18.5	17.9	18.2	19.4	18.8	20.0	19.4	20.0	20.3	20.4
Dec	20.2	19.3	18.9	18.4	18.4	18.1	17.9	17.9	18.4	18.0	18.1	17.8	18.5	18.7	18.8	18.3	18.6
Year	16.8	17.0	17.1	17.0	16.9	16.8	16.6	16.4	16.5	16.7	17.5	17.8	18.5	18.4	18.8	18.8	18.8

WIND—VELOCITY AND FREQUENCY.

BISMARCK, N. DAK.

[h_a=29 ft.; local time, 1h 42m slow.] [Seventy-fifth Meridian Time.]

6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1895.
10.5	8.8	7.4	7.8	8.7	9.3	8.4	8.9	31	140	44	75	110	20	18	25	293	19	Jan.
11.9	9.8	9.1	8.5	8.0	8.2	7.5	9.6	52	142	24	21	77	12	68	50	258	20	Feb.
16.3	14.8	11.6	9.6	9.4	9.1	9.1	11.4	42	118	113	57	56	41	27	60	267	5	Mar.
15.3	14.6	13.5	10.1	8.9	8.3	8.4	11.2	39	96	76	144	82	65	33	34	165	25	Apr.
12.6	12.5	12.1	10.0	9.0	8.7	8.5	10.1	42	214	44	67	48	104	38	55	153	21	May.
12.0	11.2	9.8	8.0	7.3	6.5	6.6	8.8	46	135	7	45	00	131	49	80	260	13	June.
12.7	12.3	11.2	10.0	8.8	8.8	8.6	9.9	52	124	21	76	47	223	51	55	132	15	July.
13.5	13.2	12.2	9.4	8.3	7.6	6.7	9.0	34	149	56	75	65	81	48	65	197	8	Aug.
15.6	14.0	12.0	9.6	9.7	9.4	8.9	11.3	40	54	27	67	85	61	75	46	277	28	Sept.
14.2	10.9	8.9	7.9	8.3	7.4	7.5	10.3	47	60	7	53	50	68	80	46	342	38	Oct.
9.5	8.8	8.0	7.8	7.5	7.3	7.2	7.7	30	102	58	49	58	51	54	43	254	51	Nov.
10.9	9.5	8.8	9.8	9.8	9.2	9.4	10.2	38	58	44	14	38	39	66	94	357	34	Dec.
12.9	11.7	10.4	9.0	8.6	8.3	8.1	9.9	.....	1,392	521	743	716	896	607	653	2,955	277	Year.

BOSTON, MASS.

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

10.9	11.2	10.7	11.2	11.0	11.1	10.6	11.1	40	40	52	20	37	20	142	304	129	0	Jan.
13.2	13.2	12.8	12.9	12.0	12.8	13.8	13.5	47	31	28	16	4	18	100	302	173	0	Feb.
12.5	11.1	10.9	11.1	11.2	11.5	11.0	12.6	37	53	52	57	34	29	104	193	222	0	Mar.
11.7	10.5	9.7	10.0	9.5	9.1	9.2	10.8	43	74	91	117	63	80	96	109	90	0	Apr.
12.5	12.1	11.1	10.6	10.6	9.8	9.2	10.7	31	45	73	73	32	90	179	160	92	0	May.
9.6	8.9	8.7	8.9	8.5	8.3	7.3	8.8	30	43	92	210	46	57	140	89	42	1	June.
10.0	9.4	9.2	9.3	9.1	9.0	9.1	9.4	30	62	36	74	45	78	148	148	153	0	July.
10.4	9.2	9.2	8.5	8.3	8.1	8.0	9.3	29	21	19	79	48	77	156	215	129	0	Aug.
10.6	10.2	10.1	9.2	9.2	9.1	8.7	9.8	33	76	31	77	42	27	142	168	157	0	Sept.
11.7	11.0	10.5	10.9	10.8	10.4	11.0	12.0	46	72	52	32	19	57	138	169	205	0	Oct.
11.6	11.7	12.0	11.9	11.2	11.0	10.2	11.0	41	106	54	45	19	55	127	185	128	1	Nov.
11.6	12.5	12.6	12.7	12.5	13.0	13.1	13.2	50	191	14	27	42	47	133	145	145	0	Dec.
11.4	10.9	10.6	10.6	10.3	10.3	10.1	11.0	.....	814	594	827	431	635	1,605	2,187	1,665	2	Year.

BUFFALO, N. Y.

[h_a=108 ft.; local time, 15m slow.]

17.1	17.0	16.4	15.7	16.0	16.3	15.9	16.2	64	11	22	68	53	48	185	198	159	0	Jan.
16.9	16.2	15.2	15.3	14.5	14.2	14.2	15.5	46	14	4	1	10	6	189	328	120	0	Feb.
13.9	12.8	11.7	11.4	11.6	11.8	12.3	12.5	45	81	62	92	26	39	99	176	169	0	Mar.
9.9	9.3	9.2	8.6	7.8	6.9	7.1	8.6	34	58	73	178	48	50	90	119	103	1	Apr.
11.1	9.6	8.9	8.7	8.6	7.8	7.5	9.2	36	28	35	28	20	44	222	248	115	4	May.
9.7	8.3	6.8	6.0	6.4	5.9	5.3	7.4	42	31	75	63	65	36	167	173	104	6	June.
10.7	9.9	8.3	7.4	6.9	6.9	7.4	8.7	35	50	80	31	44	34	146	166	186	7	July.
9.3	8.5	7.4	6.8	5.7	5.0	6.2	8.0	41	16	32	25	31	39	214	221	131	35	Aug.
9.8	9.2	8.5	8.4	7.6	7.7	7.8	9.2	48	42	66	68	38	54	120	199	116	17	Sept.
18.0	16.5	14.9	13.5	13.9	13.7	14.2	15.4	59	28	34	60	43	57	168	219	135	0	Oct.
10.8	10.0	9.8	10.3	10.4	10.3	11.5	11.7	68	41	40	82	86	137	142	99	93	0	Nov.
14.2	14.6	13.6	13.8	13.0	13.5	14.3	14.1	78	18	33	101	61	111	185	129	104	2	Dec.
12.6	11.8	10.9	10.5	10.2	10.0	10.3	11.4	.....	418	556	797	525	655	1,927	2,275	1,535	72	Year.

CHICAGO, ILL.

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

19.6	19.1	19.4	19.3	18.6	17.2	17.1	18.1	64	25	43	13	74	74	159	165	191	0	Jan.
20.0	18.6	17.4	17.6	17.0	18.2	18.1	18.4	51	41	25	12	18	34	106	250	186	0	Feb.
21.7	19.8	17.7	17.5	16.9	17.5	17.2	20.0	50	68	232	16	64	43	110	118	93	0	Mar.
19.4	18.0	17.6	18.0	18.5	17.9	17.5	18.3	40	71	342	84	28	87	23	68	17	0	Apr.
19.4	17.7	15.7	15.4	16.0	16.4	16.2	17.3	50	58	139	28	106	173	149	76	15	0	May.
14.6	13.8	13.3	11.1	11.6	12.1	12.5	13.7	40	39	184	70	122	102	95	82	23	3	June.
15.3	15.1	14.5	13.1	13.1	13.0	13.3	14.3	50	43	195	61	94	81	109	112	49	0	July.
15.5	14.5	12.0	11.6	11.6	11.6	11.5	13.2	45	59	142	72	78	96	158	85	54	0	Aug.
19.6	17.7	16.4	15.9	16.6	18.1	18.5	18.7	53	38	55	26	38	247	155	121	40	0	Sept.
16.1	15.9	15.7	16.2	16.8	16.6	17.1	17.2	56	168	17	21	9	112	171	138	107	1	Oct.
19.8	19.9	20.8	20.5	19.8	19.9	20.5	19.3	53	160	58	19	18	218	89	72	86	0	Nov.
18.7	18.8	18.9	19.3	19.9	20.2	19.9	18.8	54	115	44	10	32	194	121	135	93	0	Dec.
18.3	17.4	16.6	16.3	16.4	16.6	16.6	17.3	.....	885	1,476	432	681	1,461	1,445	1,422	954	4	Year.

WIND—VELOCITY AND FREQUENCY—Continued.

CINCINNATI, OHIO.

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

1895.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan	8.9	8.6	8.6	8.2	8.5	8.4	8.2	8.2	8.4	9.0	8.8	9.4	10.1	10.0	10.4	9.7	9.4
Feb	8.2	8.0	8.0	7.6	7.2	6.8	6.9	6.8	7.6	8.2	8.4	8.9	9.9	10.0	10.4	10.5	10.5
Mar	8.5	8.1	8.2	8.1	7.6	7.6	7.9	8.3	9.3	10.1	10.6	11.4	12.1	12.5	12.5	12.8	12.6
Apr	5.5	5.5	5.0	5.3	5.5	5.5	5.8	7.2	8.4	9.1	10.0	10.2	10.7	10.8	10.5	11.0	10.9
May	4.5	4.4	4.2	4.2	3.9	4.0	4.5	5.5	7.0	7.9	8.6	8.4	8.3	9.1	9.5	9.2	8.8
June	3.9	3.8	3.7	3.7	3.6	3.4	3.7	4.5	5.9	7.0	7.7	8.3	8.8	9.7	9.2	9.4	9.6
July	4.6	4.7	4.2	4.1	4.0	4.1	4.9	5.5	6.2	6.7	8.2	7.8	8.0	8.7	8.6	8.8	9.2
Aug	4.1	3.9	3.8	3.5	3.7	3.5	3.5	4.3	5.5	6.1	7.0	8.3	9.1	9.6	9.4	9.2	9.4
Sept	5.1	5.4	4.8	4.7	4.8	4.9	4.9	5.4	6.4	8.0	8.5	9.0	9.3	9.6	9.2	9.7	9.7
Oct	5.3	5.0	4.9	5.0	5.1	4.9	4.9	5.4	7.4	8.9	10.1	9.9	10.2	10.6	10.6	10.3	10.2
Nov	6.5	6.5	6.1	6.0	5.9	5.7	5.5	5.7	6.0	6.9	7.4	8.2	9.2	9.4	9.3	9.0	8.9
Dec	6.5	6.4	7.1	6.8	7.3	7.4	7.7	7.9	8.2	8.3	8.9	9.5	10.1	10.1	9.7	9.7	8.9
Year	6.0	5.9	5.7	5.6	5.6	5.5	5.7	6.2	7.2	8.0	8.7	9.1	9.6	10.0	9.9	9.9	9.8

CLEVELAND, OHIO.

[λ=41° 30′ N.; φ=81° 42′ W.]

Jan	14.4	14.3	14.1	13.1	14.0	13.9	14.5	15.0	15.1	15.5	16.3	15.7	16.3	16.3	15.5	15.1	15.2
Feb	15.2	15.2	15.9	15.8	15.0	16.0	15.9	15.0	14.7	15.1	16.1	16.0	16.2	17.6	17.8	17.6	16.1
Mar	14.2	13.2	12.6	11.6	11.2	11.1	11.2	11.9	12.8	14.8	15.0	16.3	17.1	17.6	17.9	17.9	17.2
Apr	10.8	10.8	11.3	11.0	11.0	10.7	11.0	11.1	12.0	12.4	14.7	14.6	14.9	15.6	15.2	13.4	12.8
May	11.4	11.8	11.3	11.3	11.2	10.8	11.0	11.4	11.9	12.7	12.1	12.1	13.5	14.5	14.1	13.0	13.2
June	8.7	9.2	9.5	9.3	9.2	8.7	9.5	10.3	10.0	10.5	10.8	11.2	12.1	12.1	11.7	11.5	11.3
July	9.8	9.2	9.2	9.5	9.7	9.3	9.5	10.0	9.6	11.0	12.5	12.6	13.2	12.8	11.7	11.7	11.6
Aug	8.9	9.3	9.3	9.7	9.5	9.5	9.4	9.4	9.7	10.2	11.7	12.4	13.2	13.0	11.7	10.2	10.8
Sept	12.5	12.6	12.7	13.1	12.9	12.8	12.1	11.5	12.2	13.2	13.5	13.6	13.6	14.4	13.8	13.2	11.8
Oct	14.8	14.8	14.7	14.3	14.3	13.9	14.5	14.8	15.4	15.7	17.5	18.2	18.2	18.2	17.7	18.2	17.8
Nov	15.1	15.7	16.1	15.7	16.0	15.7	15.3	14.7	14.2	14.1	13.6	14.0	14.2	13.6	13.8	13.0	12.9
Dec	13.5	13.4	13.7	13.5	13.8	14.2	14.7	15.5	15.5	16.1	17.0	17.3	17.9	18.1	16.8	16.1	14.7
Year	12.4	12.5	12.5	12.3	12.3	12.2	12.4	12.6	12.8	13.4	14.2	14.5	15.0	15.3	14.8	14.2	13.8

DETROIT, MICH.

[λ=42° 20′ N.; φ=83° 3′ W.]

Jan	11.5	11.7	10.8	10.6	11.1	11.5	11.4	11.7	11.7	12.5	13.5	15.4	15.5	15.6	15.7	15.1	14.0
Feb	12.5	12.0	11.5	11.0	10.9	11.0	10.9	11.2	11.4	12.4	13.0	13.3	14.0	15.4	16.1	15.7	15.2
Mar	9.9	10.0	9.7	10.1	10.7	11.1	10.8	11.5	12.7	14.0	14.4	15.1	14.6	15.5	16.1	16.0	14.9
Apr	9.4	9.1	9.3	8.7	8.6	8.4	8.7	9.0	10.0	10.4	11.3	12.1	12.3	12.7	13.1	12.8	12.2
May	7.7	7.9	7.4	7.4	8.2	8.1	8.1	9.2	10.6	10.5	11.3	12.5	13.4	13.9	14.0	14.2	13.3
June	7.2	7.2	6.9	6.5	6.3	6.2	6.1	6.6	7.9	9.2	10.1	11.0	10.8	12.3	12.7	12.5	11.6
July	6.7	7.2	7.0	6.6	6.7	6.9	6.5	6.8	8.1	8.6	9.0	9.6	10.7	10.9	11.0	11.2	10.7
Aug	6.5	5.8	5.7	5.6	6.1	6.5	6.0	6.3	7.5	8.7	9.5	10.1	10.9	11.5	12.3	12.0	11.6
Sept	9.0	9.5	10.0	9.4	8.3	8.7	8.9	9.0	9.8	11.5	12.2	12.4	13.2	13.0	13.1	13.4	13.4
Oct	10.3	10.8	11.4	11.0	11.5	11.5	11.9	12.0	12.6	14.7	15.4	16.0	16.5	17.3	17.0	16.4	15.5
Nov	10.7	10.5	10.4	11.1	11.0	11.4	10.6	10.8	10.4	10.8	11.7	11.9	11.9	11.7	11.7	11.3	10.9
Dec	11.0	10.9	11.3	11.0	11.4	11.6	11.3	11.4	11.2	12.4	12.5	13.5	13.8	13.4	13.1	12.4	12.1
Year	9.4	9.4	9.3	9.1	9.2	9.4	9.3	9.6	10.3	11.3	12.0	12.7	13.1	13.6	13.8	13.6	13.0

DODGE CITY, KANS.

[λ=37° 45′ N.; φ=100° W.]

Jan	8.7	8.8	8.7	8.9	9.1	8.5	8.3	7.6	8.5	9.2	10.5	12.4	13.3	13.7	13.5	13.5	12.7
Feb	8.6	8.7	8.5	7.2	7.1	6.9	7.5	7.9	8.2	8.0	10.7	11.2	12.7	13.6	14.1	14.5	14.3
Mar	10.0	10.5	9.9	10.2	10.6	11.0	11.9	11.3	11.1	13.1	15.7	15.7	16.0	16.5	16.9	16.7	16.0
Apr	13.4	13.5	13.8	13.8	13.7	12.4	11.9	12.3	13.4	16.4	17.6	18.1	17.6	17.8	18.2	18.6	19.1
May	12.6	12.3	11.7	12.3	12.9	11.8	11.5	13.0	15.3	17.4	17.2	16.5	16.5	16.5	16.5	16.7	17.2
June	11.3	11.2	11.4	10.6	9.4	8.9	8.4	9.4	11.4	13.5	14.7	15.0	14.3	14.2	14.5	14.2	14.6
July	9.4	9.4	9.3	9.1	8.1	7.8	7.0	7.2	8.8	10.4	11.3	11.7	12.5	13.0	13.3	13.2	13.1
Aug	8.5	9.0	8.9	9.2	8.4	8.2	7.7	7.3	9.3	11.5	12.8	12.1	11.8	12.3	12.5	12.5	12.7
Sept	13.3	13.3	12.9	12.2	11.4	10.3	10.7	11.4	12.5	16.5	17.4	18.7	19.7	19.6	18.9	19.2	19.2
Oct	8.8	8.1	7.2	6.9	7.1	7.7	6.7	6.3	6.2	8.5	11.7	11.7	11.8	12.1	12.4	12.2	11.7
Nov	10.3	10.5	10.6	10.2	10.0	9.6	8.5	8.2	7.9	8.4	10.9	12.3	12.3	12.6	13.4	13.6	13.6
Dec	9.0	9.1	9.5	9.7	9.3	9.1	9.2	9.5	8.5	9.0	10.9	11.2	12.5	13.4	14.5	14.9	14.4
Year	10.3	10.4	10.2	10.0	9.8	9.4	9.1	9.3	10.1	11.8	13.4	13.9	14.2	14.6	14.9	15.0	14.9

WIND—VELOCITY AND FREQUENCY—Continued.

CINCINNATI, OHIO.

[h_a=157 ft.; local time, 38^m slow.] [Seventy-fifth Meridian Time.]

6^h	7^h	8^h	9^h	10^h	11^h	Mid.	Mean.	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1895.
9.1	9.1	8.7	8.6	8.9	8.5	8.8	8.9	36	46	99	48	111	78	154	109	99	0	Jan.
9.7	8.6	8.1	7.9	7.9	8.1	8.4	8.4	30	43	60	17	38	63	128	146	177	0	Feb.
12.0	10.6	10.3	9.4	8.7	8.4	8.2	9.8	40	93	102	60	63	79	125	90	130	2	Mar.
10.0	8.8	7.5	6.5	6.3	5.9	6.2	7.8	32	106	116	75	124	61	73	40	104	21	Apr.
8.1	7.7	6.0	4.9	5.4	5.2	4.6	6.4	29	34	68	47	230	87	114	30	112	22	May
9.3	8.3	6.8	5.6	4.2	4.2	4.1	6.2	35	61	86	75	165	43	99	50	115	26	June
8.6	7.9	6.4	5.2	4.9	4.2	3.9	6.2	35	34	93	82	138	74	139	68	109	7	July.
9.4	8.4	7.4	6.1	4.5	4.3	4.4	6.2	38	48	60	50	146	99	157	76	102	6	Aug.
9.5	7.6	6.4	5.4	5.0	5.2	5.8	6.8	30	46	66	75	150	59	118	77	123	6	Sept.
9.3	7.8	7.0	6.6	5.9	5.4	5.2	7.3	27	96	70	59	84	75	98	81	156	25	Oct.
8.3	7.5	7.5	7.0	6.7	7.1	6.1	7.2	48	85	45	64	231	88	70	52	69	16	Nov.
8.6	8.5	7.9	8.1	7.9	7.3	6.9	8.1	36	68	34	31	224	141	92	72	82	0	Dec.
9.3	8.4	7.5	6.8	6.4	6.2	6.0	7.4	.....	760	899	683	1,704	947	1,367	891	1,378	131	Year.

CLEVELAND, OHIO.

[h_a=130 ft.; local time, 27^m slow.]

15.2	14.7	14.7	14.3	14.5	14.4	14.5	14.9	52	26	30	22	194	94	264	91	23	0	Jan.
15.6	15.5	15.6	15.6	16.0	15.9	16.0	15.9	49	31	9	5	77	65	207	194	84	0	Feb.
15.7	14.5	13.4	13.4	12.6	13.3	14.0	14.2	45	149	89	21	91	60	120	113	101	0	Mar.
12.2	12.2	10.7	10.5	10.6	10.6	10.5	12.1	37	158	54	70	104	34	74	144	82	0	Apr.
11.7	10.2	8.8	9.2	10.5	11.3	11.3	11.7	45	130	34	88	223	67	49	86	67	0	May.
11.3	9.6	6.9	6.1	5.9	6.8	7.3	9.6	43	105	66	83	171	31	92	69	103	0	June.
9.7	8.3	8.4	8.1	8.6	9.5	9.8	10.2	46	168	54	69	117	124	38	91	83	0	July.
8.8	7.3	6.2	6.5	7.5	8.5	8.8	9.6	52	145	64	113	190	74	37	65	56	0	Aug.
10.7	9.8	9.6	10.6	10.8	11.2	12.7	12.3	42	81	43	65	250	40	127	71	43	0	Sept.
15.6	14.0	14.0	14.6	14.3	13.9	14.1	15.6	50	71	27	50	155	96	137	129	79	0	Oct.
12.1	11.8	12.0	12.2	12.8	13.4	13.6	14.0	73	27	49	30	295	90	73	58	98	0	Nov.
13.9	13.9	14.1	14.7	15.2	14.9	14.2	15.1	42	25	54	16	287	110	143	51	58	0	Dec.
12.7	11.8	11.2	11.3	11.6	12.0	12.2	12.9	.....	1,116	573	632	2,154	885	1,361	1,162	877	0	Year.

DETROIT, MICH.

[h_a=161 ft.; local time, 32^m slow.]

13.3	12.7	13.1	13.0	12.7	12.1	11.8	12.8	48	27	74	38	33	19	255	210	86	2	Jan.
14.1	12.9	13.0	12.2	12.6	12.4	12.4	12.8	60	23	43	0	2	9	213	153	229	0	Feb.
13.5	12.4	11.3	11.7	11.8	11.6	11.0	12.5	42	75	200	72	43	12	168	87	87	0	Mar.
11.9	10.3	9.7	10.1	9.3	8.9	9.3	10.3	37	37	218	149	63	11	89	39	114	0	Apr.
12.6	10.7	9.0	8.4	8.3	8.4	8.4	10.1	43	38	52	65	69	63	290	75	91	1	May.
11.4	9.7	8.2	7.1	6.9	7.1	6.8	8.7	37	27	95	133	81	42	148	95	96	3	June.
10.6	9.5	7.7	7.3	6.5	6.7	6.5	8.3	32	41	134	113	34	17	171	78	151	5	July.
10.4	8.8	7.4	7.2	7.2	7.5	6.3	8.2	29	30	119	71	64	26	221	82	128	3	Aug.
11.4	8.9	8.9	8.9	9.2	9.6	9.3	10.5	36	22	72	61	61	44	268	93	99	0	Sept.
12.4	11.0	10.7	10.3	10.7	10.8	10.6	12.8	38	47	54	32	5	12	285	147	161	1	Oct.
10.2	9.9	10.1	10.1	10.7	11.2	11.3	10.9	76	130	9	30	4	70	286	90	101	0	Nov.
11.6	11.2	11.1	11.6	12.0	11.5	11.3	11.9	36	69	42	30	39	60	368	57	76	3	Dec.
12.0	10.7	10.0	9.8	9.8	9.8	9.6	10.8	.....	566	1,112	794	498	385	2,762	1,206	1,419	18	Year.

DODGE CITY, KANS.

[h_a=52 ft.; local time, 1^h 40^m slow.]

11.8	10.6	10.1	9.9	9.5	9.2	9.0	10.2	40	91	176	32	138	77	57	28	143	2	Jan.
13.5	11.9	10.0	9.4	8.8	8.8	8.2	10.0	44	145	104	19	101	82	27	35	158	1	Feb.
15.4	14.6	12.5	10.7	10.7	9.8	9.7	12.8	51	142	129	14	99	159	59	30	110	2	Mar.
18.0	17.9	17.6	14.8	13.9	13.9	14.2	15.5	64	128	41	36	205	111	26	32	137	4	Apr.
17.0	16.9	16.0	14.1	13.7	13.2	12.6	14.6	50	97	140	42	178	188	36	23	38	2	May.
14.6	15.3	15.1	12.5	11.1	11.3	9.7	12.4	43	47	144	54	205	176	21	7	61	5	June.
12.9	12.8	11.5	9.4	8.9	9.9	10.0	10.4	37	47	163	63	180	219	36	22	12	2	July.
12.6	12.4	11.2	9.0	8.2	8.5	9.0	10.2	43	98	126	22	263	176	18	11	17	13	Aug.
19.4	17.8	14.8	13.2	12.5	12.9	12.9	15.0	42	46	81	35	203	296	18	8	28	5	Sept.
11.2	9.4	7.5	8.0	9.0	9.2	8.8	9.2	33	135	112	50	190	137	27	27	54	12	Oct.
12.0	9.1	8.8	9.7	10.2	10.7	10.6	10.6	45	128	95	5	162	91	36	15	187	1	Nov.
12.5	9.2	8.7	9.2	9.1	8.6	8.5	10.4	43	194	86	9	94	41	46	57	215	2	Dec.
14.2	13.2	12.0	10.8	10.5	10.5	10.3	11.8	.....	1,298	1,397	381	2,018	1,753	407	295	1,160	51	Year.

WIND—VELOCITY AND FREQUENCY—Continued.

EASTPORT, ME.

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

1895.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan	12.5	12.0	11.5	12.0	12.3	12.5	11.8	12.2	12.5	12.7	13.2	13.5	12.8	12.7	12.6	12.4	12.3
Feb	14.0	13.1	13.3	13.6	13.3	13.9	14.1	14.3	14.4	15.3	15.5	15.1	13.9	13.0	13.8	13.7	13.4
Mar	11.4	10.1	9.8	10.7	10.9	11.3	11.9	11.9	11.7	11.7	11.7	11.7	11.5	12.3	12.3	13.1	12.8
Apr	10.1	9.9	10.1	9.6	9.5	9.8	9.9	10.9	11.3	12.0	11.5	11.9	12.6	13.3	14.1	14.3	13.1
May	8.3	8.1	7.5	7.7	7.5	8.1	8.0	8.5	9.5	10.2	9.8	10.9	11.6	12.1	12.3	12.0	11.7
June	6.8	6.4	6.8	6.7	6.0	6.4	6.4	6.5	6.9	7.8	8.2	9.1	9.7	9.6	9.4	9.9	10.0
July	6.6	6.4	6.2	6.0	5.6	5.1	5.1	5.8	6.1	6.6	7.2	7.6	8.0	8.9	9.3	8.8	8.5
Aug	6.3	6.8	6.9	6.9	6.0	7.3	7.1	7.3	8.1	8.0	9.0	9.9	10.3	10.7	10.8	10.5	9.5
Sept	7.3	6.9	8.4	7.4	7.7	7.8	7.6	9.3	10.1	9.8	10.4	10.7	11.1	11.5	10.9	9.9	9.5
Oct	10.1	9.5	9.4	10.0	10.1	10.6	10.8	11.5	13.1	14.1	13.9	14.3	13.8	14.3	14.3	13.8	12.4
Nov	11.6	11.6	11.9	11.8	11.5	11.8	11.7	11.5	12.3	12.5	12.6	13.1	12.4	12.6	12.9	11.4	11.7
Dec	13.9	14.0	13.9	14.7	14.5	15.0	14.5	15.1	15.4	15.5	16.4	16.2	15.8	15.3	14.8	13.9	14.3
Year	9.9	9.6	9.6	9.8	9.6	10.0	9.9	10.4	11.0	11.4	11.6	12.0	12.0	12.2	12.3	12.0	11.6

GALVESTON, TEX.

[λ = 29° 18′ N.; φ = 94° 50′ W.]

Jan	13.7	13.5	13.1	12.1	12.0	12.5	13.2	13.5	13.5	13.2	12.9	13.1	13.4	13.5	13.3	13.2	13.4
Feb	16.0	15.9	15.6	15.4	15.2	14.5	14.7	14.7	14.9	14.5	15.1	15.1	14.9	15.0	14.2	14.0	13.7
Mar	11.4	10.8	10.6	11.4	11.7	11.3	11.7	12.0	12.3	12.8	12.8	12.5	12.8	13.1	13.3	12.8	12.8
Apr	10.9	10.6	10.2	10.2	9.7	8.9	9.0	9.3	10.1	10.9	10.7	10.9	10.8	10.5	11.2	11.7	12.3
May	10.7	11.1	11.3	10.8	10.2	9.9	10.3	10.9	11.6	12.4	12.8	12.4	12.1	12.3	12.4	13.3	13.1
June	9.7	9.5	9.8	9.3	8.9	9.1	8.7	9.0	10.3	10.8	10.6	10.3	11.1	11.8	12.1	12.2	11.6
July	9.6	9.7	9.5	9.1	8.7	8.3	7.5	7.8	8.9	9.5	10.4	10.1	10.8	11.5	12.0	12.2	12.4
Aug	8.2	8.2	8.0	7.9	7.6	7.1	6.7	7.1	8.3	9.1	9.6	9.6	10.8	11.0	12.0	12.1	11.8
Sept	9.4	9.2	9.3	9.2	9.2	8.8	9.0	8.4	8.6	9.8	10.0	10.3	11.0	10.5	10.7	11.2	10.6
Oct	10.0	10.3	10.3	10.2	10.5	10.5	10.4	10.4	11.0	10.6	11.3	11.2	10.9	10.7	10.5	10.1	9.7
Nov	12.3	11.5	11.2	11.1	11.1	10.9	11.0	11.0	11.1	11.3	11.3	11.6	11.8	11.8	11.5	11.0	11.0
Dec	12.1	12.3	11.8	12.2	12.0	11.8	12.1	12.2	12.2	13.2	13.2	11.9	11.9	11.8	11.6	11.7	12.4
Year	11.2	11.0	10.9	10.7	10.6	10.3	10.4	10.5	11.1	11.5	11.7	11.6	11.9	12.0	12.1	12.1	12.1

HAVRE, MONT.

[λ = 48° 34′ N.; φ = 109° 40′ W.]

Jan	7.6	7.8	7.5	8.1	8.1	7.8	7.6	7.3	7.3	7.5	7.3	7.1	8.3	9.3	10.5	10.2	9.2
Feb	8.2	8.1	8.6	8.9	8.8	8.1	8.6	8.6	8.9	8.8	10.0	10.4	10.3	10.4	11.0	10.9	11.6
Mar	6.2	7.3	7.8	8.3	8.4	8.7	8.4	8.5	8.5	9.4	10.9	12.4	13.7	14.5	13.9	14.2	13.2
Apr	7.3	7.7	7.8	6.9	6.5	7.2	6.7	6.8	7.3	9.9	11.7	12.9	13.4	14.5	15.4	15.0	15.3
May	7.8	8.3	8.1	8.0	8.4	8.7	8.2	9.5	10.4	12.3	12.7	12.8	13.3	13.9	14.8	14.8	16.0
June	6.3	6.0	5.7	5.7	6.4	5.5	5.0	6.9	7.5	8.3	10.3	10.4	10.8	11.3	11.5	11.4	11.7
July	6.1	6.1	5.4	5.3	5.4	5.7	6.2	5.5	5.9	7.4	8.9	8.9	9.1	9.3	10.1	9 6	9.3
Aug	5.7	5.5	4.4	4.3	3.8	4.4	4.2	4.5	4.7	7.3	8.0	8.7	9.4	9.5	10.9	11.9	12.1
Sept	7.7	7.9	7.9	7.9	7.7	8.5	8.4	7.5	8.0	10.0	11.8	12.9	13.6	13.8	13.8	15.0	15.1
Oct	6.1	5.5	5.5	5.7	6.4	6.3	6.5	6.3	6.6	7.3	9.3	11.4	13.3	13.6	13.5	13.1	13.1
Nov	8.6	9.2	9.0	9.8	10.0	10.0	9.9	10.5	10.0	9.3	9.3	10.3	11.6	12.2	12.0	11.7	10.9
Dec	12.2	13.5	13.0	13.4	13.7	13.9	13.8	13.4	12.6	12.5	12.1	11.8	13.1	15.3	16.0	16.5	16.1
Year	7.5	7.7	7.6	7.7	7.8	7.9	7.8	7.9	8.1	9.2	10.2	10.8	11.7	12.3	12.8	12.9	12.8

KANSAS CITY, MO.

[λ = 39° 5′ N.; φ = 94° 37′ W.]

Jan	8.1	7.8	7.8	8.0	7.4	7.4	7.0	7.4	7.8	7.9	8.5	8.9	9.4	9.4	9.6	9.8	9.3
Feb	8.1	7.5	7.5	7.6	7.8	7.9	7.6	8.0	8.2	9.2	10.9	11.0	10.9	10.6	10.6	10.3	9.9
Mar	9.7	9.5	10.0	9.9	9.4	9.2	10.1	9.8	10.1	10.9	11.4	12.0	13.2	13.0	13.1	12.9	12.7
Apr	8.1	7.7	7.5	7.7	7.7	7.7	7.8	8.3	9.5	10.2	11.3	11.7	12.4	12.5	12.7	12.3	11.9
May	8.5	8.6	8.7	8.5	8.4	8.0	8.3	8.6	10.3	11.5	12.5	12.6	12.4	12.6	12.7	13.1	13.0
June	6.7	6.5	6.0	6.5	6.2	6.5	7.2	8.1	8.2	9.1	9.5	10.1	10.4	10.7	10.9	11.1	10.5
July	6.1	6.6	6.3	6.4	6.3	6.7	6.6	7.5	7.2	7.7	7.7	8.5	9.8	9.4	9.8	10.1	9.3
Aug	5.9	5.7	5.8	6.8	6.8	6.1	6.3	6.4	6.5	7.1	7.8	8.1	8.8	8.9	8.6	8.6	8.8
Sept	10.0	10.2	9.8	8.9	8.1	8.3	8.0	8.8	10.0	11.2	12.9	13.2	13.8	13.1	13.3	13.5	13.1
Oct	7.2	7.7	7.5	7.0	6.5	6.8	6.6	6.9	7.1	8.1	9.1	9.7	10.0	9.9	9.7	9.3	9.0
Nov	8.9	8.9	8.6	9.3	9.5	9.3	10.1	9.7	10.1	10.4	10.9	11.6	11.8	11.0	11.1	11.1	10.4
Dec	9.3	9.0	9.4	9.0	9.0	9.1	9.0	9.7	9.4	10.0	10.5	10.6	11.1	11.3	11.5	11.3	10.5
Year	8.0	8.0	7.9	8.0	7.8	7.8	7.9	8.3	8.7	9.4	10.2	10.7	11.2	11.0	11.1	11.1	10.7

WIND—VELOCITY AND FREQUENCY—Continued.

EASTPORT, ME.

[h_a = 74 ft.; local time, 32m fast.] [Seventy-fifth Meridian Time.]

6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1895.
12.7	11.4	11.8	11.8	11.5	11.8	12.2	12.3	66	80	70	52	65	24	80	209	161	3	Jan.
13.4	13.7	13.9	14.4	14.4	14.1	14.3	14.0	72	123	44	13	23	55	95	169	147	3	Feb.
11.8	10.5	10.2	10.9	11.3	11.5	12.2	11.5	42	60	64	16	33	39	185	120	215	12	Mar.
11.7	11.1	10.9	11.3	11.4	10.3	10.3	11.3	60	63	79	50	43	135	136	83	101	30	Apr.
11.3	9.7	9.4	9.1	9.0	8.8	8.2	9.5	48	41	74	33	31	294	136	59	59	17	May.
9.0	8.2	7.9	7.7	6.6	6.3	6.6	7.7	30	23	167	42	32	301	100	19	22	14	June.
7.2	6.3	6.1	5.9	5.9	6.3	6.8	6.8	28	29	63	23	22	278	127	59	109	34	July.
8.5	7.2	6.9	7.0	6.9	6.4	6.5	7.9	29	58	25	31	38	247	120	131	79	15	Aug.
9.2	8.1	8.6	7.7	7.7	7.7	7.8	8.9	32	89	40	77	27	128	143	118	77	21	Sept.
10.8	10.9	11.7	11.9	11.7	11.3	11.7	11.9	44	96	46	42	34	148	106	136	134	2	Oct.
12.2	12.0	12.7	12.9	12.8	11.8	11.7	12.1	46	104	50	64	53	98	137	132	80	2	Nov.
15.4	15.2	15.3	15.9	15.9	14.3	14.4	15.0	54	194	58	39	32	71	133	107	104	6	Dec.
11.1	10.4	10.4	10.5	10.4	10.0	10.2	10.7	.....	960	780	482	433	1,818	1,498	1,342	1,288	159	Year.

GALVESTON, TEX.

[h_a = 96 ft.; local time, 1h 19m slow.]

12.8	12.2	12.6	13.2	14.0	14.5	14.5	13.2	49	124	122	79	145	165	25	20	64	0	Jan.
13.1	12.8	13.1	14.4	14.5	14.5	15.1	14.6	48	125	113	136	84	40	45	35	94	0	Feb.
12.7	12.0	11.9	11.8	11.6	10.9	11.0	12.0	49	97	62	100	235	107	88	10	44	1	Mar.
12.3	12.0	11.4	11.2	10.6	10.6	10.8	10.7	33	59	40	30	206	230	51	26	78	0	Apr.
12.5	11.8	11.1	10.5	10.2	10.2	10.6	11.4	42	41	102	50	293	165	61	3	25	4	May.
11.0	10.2	9.3	8.8	8.9	9.3	9.0	10.1	24	29	64	26	202	198	161	29	10	1	June.
12.1	11.7	10.6	9.7	9.5	9.4	9.0	10.0	26	7	9	4	35	293	361	23	12	0	July.
11.0	10.4	9.8	8.8	8.2	8.3	8.3	9.2	33	14	8	45	133	253	204	64	22	1	Aug.
10.8	9.9	9.7	10.1	9.9	9.7	9.8	9.8	35	15	112	74	280	141	80	2	14	2	Sept.
9.7	8.8	9.1	9.3	9.3	9.7	9.5	10.2	31	126	217	164	93	61	52	15	14	2	Oct.
11.4	11.2	11.3	12.0	12.1	12.3	12.0	11.4	45	141	94	143	95	102	56	24	65	0	Nov.
12.1	11.3	11.1	11.8	12.5	12.8	12.3	12.1	46	134	54	33	159	96	107	66	95	0	Dec.
11.8	11.2	10.9	11.0	10.9	11.0	11.0	11.2	.....	912	997	884	1,960	1,851	1,291	317	537	11	Year.

HAVRE, MONT.

[h_a = 33 ft.; local time, 2h 19m slow.]

8.7	7.7	7.7	7.6	7.7	8.0	8.2	8.1	34	44	117	88	7	4	84	155	209	36	Jan.
10.9	11.0	10.0	9.6	9.2	8.5	8.5	9.5	49	44	73	54	3	15	164	157	122	40	Feb.
12.9	11.7	10.8	8.2	7.8	7.2	6.9	10.0	38	78	97	62	0	4	207	140	116	40	Mar.
14.9	14.4	14.0	10.8	7.9	6.3	6.4	10.3	42	36	65	107	20	22	211	148	101	10	Apr.
15.5	15.7	15.2	13.1	10.5	9.3	8.3	11.5	37	53	66	81	74	28	149	158	130	5	May.
11.3	11.3	10.0	8.9	6.8	5.9	7.4	8.4	37	76	87	39	24	9	187	124	154	20	June.
9.1	9.2	9.1	7.5	6.9	5.8	5.1	7.4	50	118	50	119	19	16	132	145	99	46	July.
11.3	10.2	10.5	8.7	6.5	5.8	4.8	7.4	30	116	78	72	3	12	145	152	132	34	Aug.
13.6	13.3	10.7	8.2	7.7	7.6	7.9	10.3	48	29	76	60	22	6	151	175	184	17	Sept.
11.6	9.0	6.3	5.4	5.5	5.7	6.3	8.3	39	108	80	38	14	4	164	151	169	16	Oct.
9.5	8.5	7.9	8.3	8.5	8.7	9.3	9.8	40	110	95	24	6	0	198	136	145	6	Nov.
14.9	13.1	12.8	12.4	13.1	12.9	13.1	13.6	48	20	85	1	14	0	320	156	148	0	Dec.
12.0	11.3	10.4	9.1	8.2	7.6	7.7	9.6	.....	832	969	745	206	120	2,112	1,797	1,709	270	Year.

KANSAS CITY, MO.

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

8.7	7.8	8.3	8.6	8.5	8.4	8.2	8.3	34	103	66	19	151	77	109	40	172	7	Jan.
9.6	9.1	8.2	8.9	8.5	9.4	8.7	9.0	36	51	45	37	88	114	77	29	230	1	Feb.
12.4	10.9	9.8	8.9	9.5	9.9	9.4	10.7	35	60	101	50	127	153	68	16	165	4	Mar.
11.7	10.6	8.9	7.9	7.9	8.5	8.4	9.6	37	78	94	101	203	49	65	23	105	2	Apr.
13.2	12.4	10.9	9.4	9.4	9.2	9.0	10.5	40	71	114	26	137	277	70	17	30	2	May.
10.0	8.9	8.1	7.3	6.7	7.1	6.9	8.3	38	36	191	56	159	165	47	16	40	10	June.
8.9	8.2	7.5	6.9	6.6	7.0	6.5	7.7	38	50	216	65	149	103	114	16	19	12	July.
8.1	7.2	6.5	5.9	6.0	5.5	6.2	7.0	40	53	164	26	97	195	117	34	46	12	Aug.
11.4	10.0	8.8	8.6	8.8	9.5	9.6	10.5	36	62	57	26	122	316	89	7	41	0	Sept.
8.2	6.5	5.8	6.4	6.1	6.6	6.8	7.7	33	121	91	21	65	116	190	16	115	9	Oct.
9.5	8.3	8.1	8.1	8.4	8.4	8.7	9.7	38	93	122	12	84	202	76	22	106	3	Nov.
9.9	9.6	9.2	9.6	9.5	9.2	9.2	9.8	37	180	78	10	61	99	120	29	167	0	Dec.
10.1	9.1	8.3	8.0	8.0	8.2	8.1	9.1	.....	958	1,339	449	1,443	1,866	1,142	265	1,236	62	Year.

WIND—VELOCITY AND FREQUENCY—Continued.

KEY WEST, FLA.

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

1895.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan	7.8	8.0	8.2	8.3	8.0	8.0	7.3	7.5	8.1	8.6	9.0	9.2	9.0	8.6	8.5	8.3	8.6
Feb	12.8	14.0	14.4	13.9	13.9	14.3	13.4	13.1	14.1	13.1	13.3	13.5	13.9	13.9	13.5	12.4	11.9
Mar	9.1	9.6	9.5	9.6	9.5	9.9	10.1	10.4	11.5	12.4	12.6	12.3	11.9	12.5	12.7	12.2	12.1
Apr	10.8	10.6	10.7	10.3	10.8	10.7	10.3	11.4	12.1	11.9	12.5	12.7	12.5	12.5	12.3	12.5	12.0
May	8.3	7.9	7.7	7.6	7.0	6.3	6.3	7.3	7.8	8.3	8.4	8.7	8.6	8.8	8.6	8.9	9.3
June	6.3	6.0	6.0	5.8	6.1	6.2	6.4	7.2	7.9	8.4	8.9	9.1	9.1	9.2	8.6	8.4	7.8
July	5.4	5.4	5.4	5.1	5.2	5.0	5.3	6.4	6.9	7.3	7.5	7.7	8.1	7.4	7.4	7.5	7.0
Aug	7.0	7.5	7.3	6.0	6.6	6.2	6.8	7.2	7.7	8.4	8.6	8.5	9.0	8.9	8.8	8.6	8.5
Sept	7.0	6.8	6.3	5.5	5.8	5.7	6.0	6.5	7.2	7.6	8.0	8.4	8.5	8.3	8.3	7.6	8.0
Oct	13.5	13.5	13.7	13.4	13.3	13.4	12.1	12.6	13.1	13.1	13.3	13.1	13.0	12.7	12.6	12.6	12.7
Nov	10.4	12.0	11.1	11.1	11.2	11.4	11.1	11.4	11.8	11.9	11.4	12.2	11.7	11.6	11.5	11.2	10.9
Dec	11.9	12.7	12.6	12.4	12.5	12.7	12.0	12.1	12.5	13.0	13.9	14.0	13.5	14.1	14.5	14.2	14.1
Year	9.2	9.5	9.4	9.1	9.2	9.2	8.9	9.4	10.1	10.3	10.6	10.8	10.7	10.7	10.6	10.4	10.2

MARQUETTE, MICH.

[λ = 46° 34′ N.; φ = 87° 24′ W.]

Jan	12.9	13.0	12.4	12.4	13.2	12.6	12.2	12.4	12.4	11.7	11.9	11.9	11.6	11.1	12.0	11.9	11.3
Feb	12.3	12.2	11.7	11.6	11.4	11.0	11.5	11.5	12.5	12.9	13.1	11.8	11.4	12.1	11.7	12.1	11.2
Mar	11.0	11.1	11.8	12.8	12.8	13.0	12.6	13.1	13.1	12.9	13.1	13.7	14.6	15.3	14.6	14.0	13.4
Apr	7.7	8.1	7.9	8.0	7.6	7.7	7.6	7.7	8.0	8.5	9.3	9.6	10.4	10.9	10.1	9.7	9.1
May	11.0	11.4	10.9	10.6	10.5	10.9	11.3	11.3	11.2	12.1	12.3	12.7	12.9	13.8	14.0	13.8	12.6
June	7.4	7.4	7.8	7.9	7.2	6.9	7.3	7.7	8.5	9.6	10.3	11.0	11.3	11.6	12.2	10.7	10.5
July	8.5	8.5	8.9	7.3	7.5	7.4	7.3	7.7	9.0	8.8	9.5	10.0	10.1	10.7	10.9	10.7	10.5
Aug	9.6	9.9	10.6	10.2	9.6	8.3	7.2	8.6	9.2	10.4	11.4	11.7	11.9	13.1	11.7	11.1	10.1
Sept	12.5	12.3	12.4	12.5	11.5	12.8	12.3	13.6	14.3	14.6	14.8	15.5	14.7	15.7	14.7	13.4	12.2
Oct	11.5	12.2	12.6	13.2	13.0	11.7	12.2	11.6	12.0	12.5	13.4	13.5	13.0	13.1	13.4	13.2	11.8
Nov	10.1	10.8	11.0	11.4	10.2	10.4	10.3	10.4	10.8	11.0	10.3	11.0	11.3	11.9	12.3	11.8	10.3
Dec	12.1	12.2	11.3	10.5	10.1	10.4	10.8	11.0	11.5	12.1	13.1	13.7	13.4	12.8	12.6	12.7	11.4
Year	10.6	10.8	10.8	10.7	10.4	10.3	10.2	10.6	11.0	11.4	11.9	12.2	12.2	12.7	12.5	12.1	11.2

MEMPHIS, TENN.

[λ = 35° 9′ N.; φ = 90° 3′ W.]

Jan	8.4	7.7	8.2	8.3	8.4	7.7	7.7	7.7	7.7	8.7	9.1	9.3	9.7	9.3	9.8	9.4	8.9
Feb	7.2	6.6	6.5	6.9	6.9	6.6	6.9	6.4	6.4	7.5	7.3	7.7	8.0	7.6	8.0	7.9	7.8
Mar	6.5	5.9	6.1	6.3	6.2	6.6	7.4	7.3	8.2	8.5	8.3	8.0	8.2	8.5	8.9	8.5	8.6
Apr	8.2	7.9	7.2	6.6	6.6	6.9	6.9	6.8	7.4	8.1	8.1	8.4	9.3	9.6	9.6	9.3	9.2
May	7.1	6.5	5.8	5.9	5.7	6.2	6.9	7.5	8.3	8.8	9.2	9.1	10.0	9.7	10.1	9.9	9.9
June	4.5	4.6	4.6	4.4	4.3	4.2	4.4	4.7	5.7	6.2	6.4	6.2	7.0	7.4	7.5	7.5	7.5
July	7.7	7.1	6.8	5.8	5.8	6.5	6.5	6.5	7.3	7.3	7.3	7.8	8.0	8.3	8.3	7.6	7.4
Aug	6.3	6.9	6.7	6.2	6.3	6.0	6.2	6.2	6.8	6.2	7.0	7.2	7.5	7.8	8.2	8.5	8.5
Sept	7.9	7.5	7.6	7.9	7.3	7.2	6.9	6.6	7.0	7.1	7.6	8.5	8.9	9.5	9.5	9.4	8.9
Oct	8.4	8.2	8.1	8.1	7.4	7.2	7.5	7.0	7.3	7.5	8.2	8.7	8.5	8.8	8.9	8.6	9.2
Nov	10.7	10.5	9.8	9.7	10.7	10.5	10.4	10.0	9.4	10.3	9.9	10.9	10.5	9.9	10.1	10.3	9.7
Dec	13.6	13.7	13.2	13.0	12.4	12.9	12.7	12.5	12.4	12.3	12.9	12.4	11.5	12.4	12.4	12.6	12.8
Year	8.0	7.8	7.6	7.4	7.3	7.4	7.5	7.4	7.8	8.2	8.4	8.7	8.9	9.1	9.3	9.1	9.0

NEW ORLEANS, LA.

[λ = 29° 58′ N.; φ = 90° 4′ W.]

Jan	9.0	9.7	9.5	8.9	8.9	8.5	8.8	9.5	9.6	9.7	10.0	10.9	11.2	12.1	11.4	10.5	10.0
Feb	8.7	9.3	9.0	9.8	10.0	9.8	10.1	10.8	11.0	11.7	12.2	12.9	12.7	12.7	13.0	12.4	12.1
Mar	8.7	8.8	8.5	8.2	8.3	8.7	9.2	9.5	10.5	10.7	10.8	11.2	11.3	12.2	12.5	12.1	11.8
Apr	7.3	7.6	7.3	6.6	6.2	6.3	6.2	6.7	7.8	9.2	10.2	10.4	10.7	11.9	11.8	11.7	11.4
May	6.5	6.3	6.4	6.5	6.6	6.1	6.2	6.9	8.3	9.1	9.7	9.5	9.9	10.3	10.8	10.5	10.7
June	4.6	4.8	4.9	4.6	4.5	4.3	4.0	4.7	6.5	7.8	7.8	7.8	8.2	8.6	9.2	9.6	9.3
July	5.5	5.6	5.1	5.5	5.0	4.6	4.4	5.1	6.7	8.1	8.4	7.9	7.8	8.5	8.9	9.0	9.2
Aug	3.6	3.9	4.1	4.0	3.5	3.6	3.9	4.9	6.5	7.6	8.5	8.0	8.3	8.2	8.7	8.9	8.2
Sept	4.5	4.3	4.5	4.2	4.2	4.0	4.5	5.1	6.5	7.9	8.6	8.9	8.7	9.3	8.7	8.5	8.3
Oct	7.5	7.4	7.5	7.2	7.5	7.8	7.9	7.9	8.5	8.9	8.9	8.6	9.2	9.5	10.0	9.5	9.5
Nov	8.1	8.2	8.2	8.3	8.7	8.5	8.6	9.2	9.6	11.0	11.3	10.7	11.2	11.0	10.6	10.2	9.7
Dec	8.4	8.8	8.5	9.1	9.4	9.4	9.4	9.7	10.2	11.1	11.6	13.3	14.0	14.0	13.4	13.0	12.9
Year	6.9	7.1	7.0	6.9	6.9	6.8	6.9	7.5	8.5	9.4	9.8	10.0	10.3	10.7	10.8	10.5	10.3

WIND—VELOCITY AND FREQUENCY—Continued.

KEY WEST, FLA.

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

6^h	7^h	8^h	9^h	10^h	11^h	Mid.	Mean.	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1895.
8.6	7.4	7.1	7.8	8.3	8.0	7.5	8.2	31	88	204	149	133	82	25	16	44	3	Jan.
11.6	11.7	12.3	12.0	11.2	10.5	12.6	13.0	39	149	199	122	44	55	22	13	67	1	Feb.
11.5	10.4	10.1	10.7	10.2	10.2	9.5	10.8	36	50	124	233	203	53	30	16	34	1	Mar.
11.4	11.3	11.5	12.1	11.5	11.2	11.4	11.5	42	94	112	162	134	94	22	30	69	3	Apr.
8.5	8.5	8.0	8.4	9.0	8.9	8.9	8.2	37	35	90	211	209	77	63	23	35	1	May.
7.7	6.5	6.5	7.2	6.6	7.0	6.0	7.3	36	71	71	202	190	37	26	47	71	5	June.
6.3	6.3	6.0	5.8	5.2	5.5	5.1	6.3	25	49	46	240	191	77	64	25	38	14	July.
8.4	7.8	7.4	7.8	7.5	7.4	7.5	7.7	26	47	50	229	194	63	66	25	65	5	Aug.
7.9	7.5	8.1	7.7	8.5	8.0	7.9	7.4	31	35	120	275	149	56	32	25	18	10	Sept.
12.3	12.1	11.9	12.3	12.0	12.2	12.7	12.8	49	79	345	188	65	24	20	6	17	0	Oct.
10.7	10.0	10.9	11.7	12.0	11.5	11.2	11.3	36	109	431	70	55	20	1	12	13	9	Nov.
13.7	13.6	14.2	14.4	14.0	13.5	13.0	13.3	43	126	329	100	57	14	15	26	76	1	Dec.
9.9	9.4	9.5	9.8	9.7	9.5	9.4	9.8	.....	932	2,121	2,181	1,624	652	386	264	547	53	Year.

MARQUETTE, MICH.

[h_a = 95 ft.; local time, 49^m slow.]

9.9	9.9	10.6	11.7	12.8	13.3	13.9	12.0	33	93	22	22	14	90	122	175	206	0	Jan.
9.4	8.2	8.8	9.8	10.5	11.1	12.0	11.3	44	73	12	38	16	37	98	111	285	2	Feb.
12.5	10.5	9.5	10.0	10.0	10.7	10.9	12.4	43	102	71	38	27	115	99	86	206	0	Mar.
8.5	7.7	6.7	6.8	6.6	7.7	7.9	8.3	40	181	139	34	65	69	37	24	167	4	Apr.
11.4	10.1	8.9	8.5	9.2	9.7	11.1	11.3	46	114	124	34	72	133	93	38	136	0	May.
9.1	7.8	7.4	6.2	6.0	6.5	7.7	8.6	38	111	68	55	75	117	79	43	171	1	June.
8.9	7.3	6.6	5.8	7.5	8.7	8.9	8.6	29	104	85	43	64	67	90	86	196	9	July.
8.9	7.2	6.5	5.9	7.3	9.2	9.6	9.6	43	100	74	24	58	93	107	79	208	1	Aug.
11.1	9.3	8.7	10.4	11.8	11.9	12.6	12.7	52	78	65	13	74	129	143	69	149	0	Sept.
11.4	10.1	10.7	11.0	11.5	11.5	11.6	12.2	42	77	34	14	23	86	132	142	234	2	Oct.
9.0	9.2	10.1	11.1	10.6	10.2	10.3	10.7	34	79	29	7	45	166	113	120	161	0	Nov.
10.3	10.1	11.0	12.3	13.2	12.6	12.9	11.8	46	70	40	10	69	123	175	142	115	0	Dec.
10.0	9.0	8.8	9.1	9.8	10.3	10.8	10.8	.....	1,182	763	332	602	1,225	1,288	1,115	2,234	19	Year.

MEMPHIS, TENN.

[h_a = 116 ft.; 154 ft. (*a*); local time, 1^h slow.]

8.8	8.0	7.9	8.4	8.1	7.9	8.4	8.5	38	106	102	81	57	73	83	114	128	0	Jan.
7.9	7.0	6.8	6.8	6.5	6.2	7.1	7.1	36	115	100	131	11	27	10	117	159	2	Feb.
8.7	7.7	5.9	6.5	6.4	6.4	5.9	7.3	32	111	49	48	138	102	94	34	168	0	Mar.
8.1	7.2	5.6	5.7	6.1	6.3	7.3	7.6	33	67	53	77	151	51	93	100	116	12	Apr.
9.6	8.6	7.0	5.9	6.2	6.2	6.9	7.8	35	78	64	109	206	76	43	63	102	3	May.
7.2	7.1	6.0	5.5	5.2	4.6	4.6	5.7	22	70	22	142	99	90	34	162	100	1	June.
7.0	7.9	6.8	6.7	7.2	7.2	7.3	7.2	54	61	81	133	111	80	131	63	75	9	July.
8.3	8.0	6.2	5.8	5.7	6.0	6.0	6.9	24	81	98	43	68	96	157	88	109	4	Aug.
8.5	7.0	5.9	6.4	6.9	7.3	7.9	7.7	34	108	85	54	95	126	105	54	89	4	Sept.
8.5	7.5	6.9	7.7	7.9	8.1	8.1	8.0	29	186	161	49	26	67	99	40	115	1	Oct.
10.0	9.7	8.7	8.9	10.0	10.5	10.6	10.1	44	91	62	82	175	103	61	48	98	0	Nov.
12.7	11.3	11.1	11.5	12.1	12.5	13.4	12.5	42	66	17	12	213	181	83	72	100	0	Dec.
8.8	8.1	7.1	7.2	7.4	7.4	7.8	8.0	.....	1,140	894	961	1,350	1,072	993	955	1,359	36	Year.

a Elevation changed July 1.

NEW ORLEANS, LA.

[h_a = 120 ft.; local time, 1^h slow.]

9.4	8.4	8.7	9.0	9.1	8.8	9.0	9.6	32	154	139	95	99	87	35	33	85	17	Jan.
11.5	11.1	10.8	11.0	10.6	9.8	9.7	10.9	40	119	130	110	78	41	60	19	114	1	Feb.
11.8	10.6	10.4	10.1	9.4	9.0	8.9	10.1	37	110	120	57	125	161	90	39	42	0	Mar.
11.5	11.0	9.4	9.3	8.9	8.3	7.8	9.0	28	81	53	30	179	140	85	62	87	3	Apr.
9.8	9.0	9.0	8.4	7.9	7.5	7.2	8.3	34	63	122	90	245	85	61	17	50	11	May.
9.0	7.5	6.4	5.9	5.7	4.7	4.6	6.5	30	51	81	86	135	153	129	37	29	19	June.
8.2	8.3	7.5	6.5	6.2	6.1	5.9	6.8	36	38	21	21	70	252	173	94	52	23	July.
8.3	7.0	5.8	4.5	4.7	4.5	4.4	6.0	30	37	91	132	57	136	114	104	60	13	Aug.
7.5	6.8	6.5	6.3	5.1	5.7	5.5	6.4	32	76	168	49	194	62	63	21	46	41	Sept.
8.2	6.8	6.7	6.8	7.2	7.1	7.4	8.1	30	180	296	43	21	48	64	12	65	15	Oct.
7.9	6.6	7.0	7.6	7.8	8.5	7.4	9.0	36	143	221	68	122	55	39	17	44	11	Nov.
11.0	9.1	9.6	9.1	9.0	8.7	8.5	10.5	38	100	60	77	207	56	80	49	112	3	Dec.
9.5	8.5	8.2	7.9	7.6	7.4	7.2	8.4	.....	1,152	1,502	858	1,532	1,276	993	504	786	157	Year.

WIND—VELOCITY AND FREQUENCY—Continued.

NEW YORK, N. Y.

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

1895.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan	9.8	10.1	10.4	9.9	9.9	9.5	9.6	9.8	10.3	11.1	11.5	11.6	11.5	11.8	11.4	11.6	11.9
Feb	13.6	12.8	12.9	12.6	12.4	12.9	13.2	13.1	13.2	13.4	13.5	13.7	13.3	13.2	13.6	13.4	13.2
Mar	13.0	13.0	13.4	13.3	13.5	13.4	14.3	15.4	15.7	15.7	16.0	17.1	16.2	16.8	16.8	16.5	16.1
Apr	14.2	14.2	13.1	13.1	12.8	12.8	12.0	13.1	13.8	14.5	16.3	15.8	16.1	16.4	16.1	16.3	17.0
May	10.6	10.3	10.0	10.1	10.2	10.0	10.3	10.4	11.0	10.7	11.6	12.8	14.0	13.9	14.5	14.5	14.6
June	7.6	8.0	7.7	7.6	8.0	7.7	8.1	8.5	8.9	9.7	10.5	11.0	12.1	12.7	13.0	13.1	12.8
July	9.9	9.7	10.2	10.2	10.2	9.7	9.4	9.9	10.2	10.1	10.5	11.1	12.3	12.8	12.4	12.1	12.0
Aug	9.4	9.3	8.6	8.0	7.7	7.5	8.0	7.2	7.3	8.8	9.5	10.2	12.0	13.3	14.9	15.1	15.7
Sept	11.3	10.4	9.5	9.5	10.1	10.2	10.3	10.0	10.0	10.5	10.4	10.2	10.9	11.5	11.9	12.7	13.6
Oct	13.7	12.6	12.5	11.7	11.9	11.9	11.9	11.8	12.6	14.1	14.1	14.5	15.7	17.4	18.1	18.9	17.7
Nov	13.8	13.3	13.0	12.7	12.1	11.3	12.1	12.4	13.0	13.1	13.4	13.4	14.0	14.6	13.7	13.2	14.3
Dec	16.2	15.9	15.5	15.6	15.8	16.0	15.6	15.7	16.2	16.0	15.3	15.4	15.4	15.7	16.8	16.6	16.2
Year	11.9	11.6	11.4	11.2	11.2	11.1	11.2	11.4	11.8	12.3	12.7	13.1	13.6	14.2	14.4	14.5	14.6

PHILADELPHIA, PA.

[λ = 39° 57′ N.; φ = 75° 9′ W.]

Jan	10.5	10.2	9.9	10.1	9.6	9.7	9.9	10.2	10.6	11.8	12.6	12.3	12.6	12.9	12.8	12.4	11.8
Feb	11.4	11.4	12.0	12.2	11.1	10.7	11.3	11.8	13.0	13.6	13.6	13.6	13.8	14.6	14.3	14.0	13.8
Mar	10.3	9.6	9.9	10.2	10.3	10.8	12.4	13.8	14.4	15.2	14.3	14.3	14.9	14.6	13.7	13.5	12.5
Apr	10.1	10.5	10.6	9.9	9.3	9.5	9.9	11.3	12.8	12.3	12.6	12.6	13.2	14.1	13.8	13.3	13.0
May	8.1	7.5	7.8	7.5	7.7	7.9	8.0	9.3	9.9	10.2	10.6	10.8	11.6	11.9	11.7	12.0	12.0
June	7.2	6.7	7.1	6.9	6.9	6.6	6.9	8.1	8.9	8.6	8.9	9.1	9.7	10.3	10.3	10.5	10.7
July	7.6	7.4	7.7	8.3	8.0	7.7	7.4	8.6	9.0	9.3	9.4	9.9	10.4	11.2	11.0	11.1	11.0
Aug	6.8	6.6	6.3	5.9	5.8	6.5	6.6	7.9	8.6	8.9	9.8	11.0	11.3	12.2	12.5	13.4	12.7
Sept	6.7	6.7	7.1	7.1	6.9	7.0	7.8	9.3	10.2	10.6	11.1	11.1	11.8	12.1	12.0	12.1	11.6
Oct	9.5	8.5	8.4	8.3	8.0	8.4	8.2	9.7	11.1	12.0	12.4	12.4	13.3	13.6	14.3	13.8	12.9
Nov	9.3	9.5	9.2	9.1	9.1	9.2	9.5	9.7	10.4	10.7	11.1	11.0	12.0	12.0	11.1	10.8	10.6
Dec	11.4	11.5	11.4	10.6	10.4	10.6	10.2	10.7	11.4	11.9	12.2	12.1	12.6	12.8	11.7	11.6	10.4
Year	9.1	8.8	9.0	8.8	8.6	8.7	9.0	10.0	10.9	11.3	11.6	11.7	12.3	12.7	12.4	12.4	11.9

PITTSBURG, PA.

[λ = 40° 32′ N.; φ = 80° 2′ W.]

Jan	7.6	7.3	7.4	7.4	7.7	7.5	7.3	7.7	8.9	9.1	9.5	9.5	9.7	9.7	9.8	9.2	9.0
Feb	7.0	7.4	7.6	7.2	7.3	7.6	8.2	8.0	9.0	8.6	9.3	9.4	9.6	9.9	9.9	9.8	9.5
Mar	7.0	6.6	6.5	6.8	6.8	6.6	6.5	6.3	7.6	7.9	8.5	8.8	9.0	9.6	10.6	9.9	9.9
Apr	5.6	5.3	5.2	5.1	4.7	4.4	5.0	5.5	6.5	7.3	7.7	8.0	8.5	9.1	9.7	10.1	9.7
May	4.6	4.4	4.6	4.2	4.1	3.9	4.1	5.2	6.2	6.5	7.5	7.3	7.4	7.9	7.9	8.0	7.7
June	3.4	3.3	3.4	3.2	2.8	2.7	3.4	4.0	5.3	6.0	6.9	7.1	7.0	7.3	8.0	8.0	7.9
July	4.1	3.7	3.2	3.3	3.3	3.4	3.6	4.1	5.2	5.7	6.4	6.7	6.6	7.4	7.6	7.9	7.6
Aug	3.3	3.5	3.5	3.5	3.7	3.6	3.6	4.4	5.2	5.6	6.5	7.0	7.7	7.8	7.8	7.7	7.2
Sept	4.5	4.6	4.5	4.0	4.4	4.6	4.8	5.1	5.3	6.5	6.9	7.2	8.3	8.3	8.4	8.9	8.2
Oct	4.6	4.6	5.0	5.1	5.4	5.5	5.5	5.4	6.7	8.1	8.8	9.5	9.3	9.4	9.7	8.7	8.6
Nov	5.8	5.5	5.6	6.0	5.9	5.6	5.6	5.9	6.0	6.4	7.3	7.7	8.0	8.2	7.9	7.3	7.0
Dec	7.1	6.8	6.6	6.1	6.0	5.9	6.1	6.3	7.2	7.8	8.0	8.6	8.3	8.6	8.5	8.2	6.8
Year	5.4	5.2	5.3	5.2	5.2	5.1	5.3	5.7	6.6	7.1	7.8	8.1	8.3	8.6	8.8	8.6	8.3

PORTLAND, OREG.

[λ = 45° 32′ N.; φ = 122° 43′ W.]

Jan	7.5	7.3	7.5	7.0	7.1	6.9	6.2	6.4	6.7	7.1	6.6	7.6	7.3	7.1	6.6	7.0	7.4
Feb	6.6	7.4	7.6	8.2	8.4	8.5	8.3	8.2	8.8	8.6	8.5	8.5	9.8	9.3	9.0	9.3	10.2
Mar	8.4	8.3	9.0	9.3	8.7	9.4	8.7	8.8	9.0	9.1	9.0	8.9	9.9	10.1	11.0	10.1	9.7
Apr	9.9	10.1	8.3	8.4	7.7	7.0	8.0	7.9	6.9	7.7	8.7	9.8	10.8	10.4	10.6	11.1	10.9
May	8.2	8.6	9.1	9.1	9.6	9.5	10.0	10.5	9.7	9.5	9.6	10.0	11.3	11.8	11.7	11.9	13.2
June	9.7	9.5	8.2	6.9	6.7	5.6	6.0	5.6	5.6	5.7	6.7	7.1	7.3	7.9	8.3	8.0	8.7
July	9.3	9.1	8.5	8.6	8.6	7.5	6.9	6.5	6.3	6.9	7.4	8.0	8.0	8.3	9.0	9.0	9.4
Aug	11.6	9.6	7.8	5.6	4.9	5.0	4.6	4.4	4.7	4.2	5.6	6.9	8.2	8.3	8.7	9.3	9.4
Sept	7.4	6.8	6.8	6.1	6.5	6.5	6.6	6.8	6.6	6.2	6.3	7.7	8.5	8.9	8.4	8.8	9.0
Oct	6.9	6.6	6.8	6.1	5.9	5.5	6.0	5.6	5.4	5.3	5.2	5.3	5.6	6.2	6.6	7.7	8.7
Nov	7.1	7.0	7.0	7.2	7.5	7.2	7.1	7.0	6.9	7.4	6.3	6.7	7.7	8.0	8.6	8.9	8.7
Dec	10.4	10.8	10.5	9.3	10.5	10.9	11.0	10.7	9.6	9.6	9.6	10.6	12.5	11.8	11.4	11.1	11.2
Year	8.6	8.4	8.1	7.6	7.7	7.5	7.4	7.4	7.2	7.3	7.5	8.1	8.9	9.0	9.2	9.4	9.7

WIND—VELOCITY AND FREQUENCY—Continued.

NEW YORK, N. Y.

[h_a=200 ft.; 326 ft. (*a*); local time, 4^m fast.] [Seventy-fifth Meridian Time.]

6^h	7^h	8^h	9^h	10^h	11^h	Mid.	Mean	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1895.
11.0	10.4	10.5	10.4	10.1	9.9	9.7	10.6	36	110	71	24	14	50	125	177	173	0	Jan.
12.9	12.0	13.5	12.7	12.4	13.1	13.8	13.1	43	75	46	2	4	31	75	126	313	0	Feb.
14.4	13.0	11.9	12.3	11.9	12.6	12.5	14.4	64	153	75	22	23	80	67	115	209	0	Mar.
16.0	15.1	14.0	13.7	13.2	13.7	14.0	14.5	54	118	104	100	31	87	5	100	175	0	Apr.
15.0	14.3	13.7	13.2	13.0	11.6	10.5	12.1	42	52	25	98	38	162	28	191	150	0	May.
12.2	11.2	10.0	9.1	8.6	7.5	7.9	9.7	40	40	124	92	171	86	66	65	76	0	June.
11.8	12.2	12.4	12.2	12.7	11.3	10.9	11.1	45	66	48	24	67	125	153	69	190	2	July.
14.5	12.8	12.5	12.0	11.5	12.0	10.9	10.8	62	35	23	29	85	135	201	89	146	1	Aug.
12.3	12.6	13.3	13.6	12.8	12.0	12.4	11.3	48	52	50	29	80	89	192	74	154	0	Sept.
16.4	16.3	16.5	15.9	15.1	15.3	15.6	14.7	48	64	68	40	27	94	141	108	202	0	Oct.
14.7	15.2	14.2	14.1	13.6	13.1	13.9	13.4	42	76	97	60	44	131	124	102	86	0	Nov.
15.9	16.6	17.1	17.2	17.6	17.9	17.4	16.2	73	99	87	55	50	67	158	68	160	0	Dec.
13.9	13.5	13.3	13.0	12.7	12.5	12.5	12.7	.....	940	818	575	634	1,137	1,335	1,284	2,034	3	Year.

a Elevation changed March 15.

PHILADELPHIA, PA.

[h_a=184 ft; local time, .0^m.]

11.0	11.0	11.0	9.9	9.9	10.1	10.5	11.0	32	100	80	52	34	53	142	103	179	1	Jan.
12.6	12.2	12.4	12.3	11.8	11.4	11.2	12.5	38	103	40	6	1	13	94	131	283	1	Feb.
11.3	10.7	11.7	10.7	10.8	10.5	10.0	12.1	43	161	84	42	37	59	95	100	165	1	Mar.
11.9	11.5	11.7	11.0	11.1	11.2	10.8	11.6	39	80	163	82	72	89	63	40	131	0	Apr.
11.7	10.5	10.0	9.2	8.9	8.5	8.1	9.6	36	59	75	51	64	110	147	85	153	0	May.
10.7	9.7	8.7	7.6	7.3	6.6	6.9	8.4	28	70	142	129	90	76	68	61	83	1	June.
10.0	9.0	8.5	8.4	8.4	8.8	8.2	9.0	28	147	30	29	37	94	155	95	157	0	July.
11.8	10.3	9.0	8.0	7.8	7.2	7.1	8.9	28	73	29	35	37	124	211	113	121	1	Aug.
11.1	10.2	10.2	9.1	8.4	8.0	7.4	9.4	33	132	75	38	29	72	171	80	122	1	Sept.
11.6	10.5	10.3	10.8	9.9	10.1	10.1	10.8	35	121	84	24	10	76	118	92	218	1	Oct.
9.8	9.2	9.2	9.4	9.3	9.4	9.1	10.0	30	119	127	65	39	97	85	47	141	0	Nov.
10.3	10.9	11.6	12.3	12.5	11.9	11.1	11.4	50	116	126	42	70	72	109	88	121	0	Dec.
11.2	10.5	10.4	9.9	9.7	9.5	9.2	10.4	.....	1,281	1,055	595	520	935	1,458	1,035	1,874	7	Year.

PITTSBURG, PA.

[h_a=123 ft.; local time, 20^m slow.]

7.8	7.7	7.5	7.9	7.9	8.1	7.8	8.3	28	41	29	43	111	69	165	216	67	3	Jan.
8.6	8.7	8.0	7.6	7.1	7.1	7.1	8.3	31	39	36	21	22	20	117	210	207	0	Feb.
8.5	7.5	7.0	7.3	7.1	7.0	6.8	7.8	35	94	66	61	104	45	103	103	167	1	Mar.
9.1	7.7	7.4	7.2	7.0	6.4	6.5	7.0	31	150	15	109	124	57	48	138	62	17	Apr.
8.4	7.2	7.4	6.3	5.8	5.4	5.0	6.1	27	81	25	14	112	115	107	106	113	71	May.
7.8	6.6	6.0	5.0	4.2	4.4	3.6	5.3	22	111	130	70	120	46	55	41	116	31	June.
6.9	6.4	5.7	6.0	5.6	5.0	4.4	5.4	22	205	98	15	71	48	101	70	136	0	July.
7.0	5.8	4.3	3.7	3.4	3.9	3.5	5.1	31	106	85	29	38	49	130	125	163	19	Aug.
7.5	6.0	5.4	4.9	4.9	5.3	4.6	6.0	24	96	49	52	89	65	81	140	142	6	Sept.
7.5	6.9	6.4	5.6	5.2	4.8	4.8	6.7	28	84	35	23	58	62	118	140	223	1	Oct.
6.2	6.0	6.0	5.9	5.5	5.7	5.7	6.4	30	55	44	67	147	72	117	83	127	8	Nov.
7.3	6.8	6.6	6.5	7.3	7.9	7.3	7.2	31	45	42	53	177	110	149	79	88	1	Dec.
7.7	6.9	6.5	6.2	5.9	5.9	5.6	6.6	.....	1,107	654	557	1,173	758	1,291	1,451	1,611	158	Year.

PORTLAND, OREG.

[h_a=213 ft.; local time, 3^h 11^m slow.]

7.2	7.6	7.4	6.5	6.6	6.5	6.3	7.0	44	106	17	59	258	107	102	29	56	10	Jan.
9.9	9.0	8.6	7.8	7.7	7.2	6.7	8.4	36	68	2	82	123	212	72	13	88	12	Feb.
9.5	9.5	8.6	7.9	7.8	7.6	7.7	9.0	45	33	41	57	136	162	49	30	223	13	Mar.
11.4	11.7	10.9	9.7	8.9	9.6	9.5	9.4	46	43	10	34	181	142	64	24	216	6	Apr.
12.2	11.8	11.3	10.5	10.8	9.7	8.9	10.3	38	27	40	30	161	169	97	35	180	5	May.
8.6	9.3	10.7	11.1	10.9	9.9	10.3	8.1	35	44	17	25	73	51	36	45	415	14	June.
9.6	9.8	10.6	10.8	10.8	10.5	9.9	8.7	28	62	35	18	70	54	22	25	450	8	July.
9.8	10.8	12.0	12.2	11.9	11.6	12.1	8.3	27	27	3	12	68	30	9	84	469	42	Aug.
9.6	10.3	9.9	9.2	9.1	8.9	8.1	7.9	34	35	22	42	111	110	48	36	308	8	Sept.
9.5	9.5	8.5	7.8	7.5	7.2	7.2	6.8	33	49	57	27	72	42	19	19	431	28	Oct.
8.4	7.9	8.1	7.7	7.1	7.1	7.5	7.5	45	36	23	23	177	134	58	28	221	20	Nov.
11.3	11.5	11.3	10.5	10.1	10.1	10.2	10.7	53	16	30	81	184	242	91	30	66	4	Dec.
9.8	9.9	9.8	9.3	9.1	8.8	8.7	8.5	.....	546	297	490	1,614	1,455	667	398	3,123	170	Year.

WIND—VELOCITY AND FREQUENCY—Continued.

ST. LOUIS, MO.

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

1895.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan	12.8	12.9	12.0	12.3	11.9	11.8	11.8	12.1	12.9	13.3	13.3	12.4	13.0	13.5	14.1	13.6	13.5
Feb	11.0	11.0	11.0	11.1	10.8	10.5	10.1	10.1	11.4	11.8	12.3	12.1	12.2	12.3	12.4	12.8	13.1
Mar	12.2	13.2	12.3	12.0	12.8	12.6	12.8	13.2	14.3	14.9	14.5	15.2	14.7	14.9	14.8	14.3	14.3
Apr	10.7	10.1	10.7	10.8	10.6	10.4	9.9	10.5	11.4	11.3	11.6	12.3	12.8	13.3	13.7	14.0	14.1
May	10.2	10.3	10.2	9.5	9.5	10.0	9.7	11.0	12.0	12.1	13.4	13.5	13.6	13.9	14.8	15.1	15.0
June	7.6	6.9	6.9	7.3	7.7	7.3	6.5	6.6	7.5	8.1	9.1	9.3	9.7	9.8	10.8	11.1	11.1
July	7.7	7.7	8.2	7.0	6.6	6.6	7.1	7.7	8.4	9.0	9.6	10.1	10.6	11.3	11.4	11.0	10.8
Aug	7.0	6.7	7.0	6.3	5.6	6.7	6.2	6.2	7.1	8.0	9.2	9.8	10.7	10.3	10.6	10.4	9.9
Sept	9.9	9.7	9.2	8.4	9.1	9.0	8.5	9.1	9.8	10.7	11.2	11.1	11.0	11.6	12.0	11.9	11.9
Oct	8.3	8.1	8.0	7.5	8.0	8.0	8.0	8.0	9.5	10.2	10.7	10.5	11.2	10.8	11.5	11.6	11.5
Nov	10.8	10.8	10.4	10.7	10.4	10.4	10.8	10.6	10.9	11.8	12.7	13.7	13.5	13.6	13.6	13.3	13.3
Dec	12.1	11.7	11.8	10.9	11.2	10.8	11.6	12.2	11.7	11.6	12.6	13.3	13.5	13.6	13.6	14.3	13.9
Year	10.0	9.9	9.8	9.5	9.5	9.5	9.4	9.8	10.6	11.1	11.7	11.9	12.2	12.4	12.8	12.8	12.7

ST. PAUL, MINN.

[λ = 44° 58′ N.; φ = 93° 3′ W.]

Jan	6.9	6.7	6.9	7.0	7.3	7.5	7.3	7.0	7.1	7.7	8.2	9.0	9.1	10.0	10.4	11.0	10.3
Feb	7.2	7.1	6.9	6.6	6.4	6.2	6.0	5.5	5.5	6.0	7.0	8.1	8.9	9.6	10.1	10.1	10.4
Mar	8.6	8.9	8.5	8.4	8.4	7.5	7.5	7.7	9.0	9.9	10.6	11.6	12.0	12.7	13.0	13.6	13.0
Apr	6.1	5.5	6.1	6.5	6.4	6.1	7.0	6.9	7.4	8.7	9.8	9.8	10.6	11.0	10.6	10.3	10.3
May	6.5	6.4	6.1	5.9	6.2	6.5	6.3	6.6	8.2	9.3	10.2	10.9	11.5	11.7	11.8	11.2	10.9
June	5.4	5.6	6.0	5.5	5.4	4.8	4.9	5.1	6.6	7.6	8.9	9.5	10.0	10.2	10.1	10.1	10.2
July	3.6	3.8	4.2	4.1	4.2	4.4	5.1	5.3	6.0	7.2	7.9	8.0	9.0	9.3	9.0	9.0	9.0
Aug	4.2	3.9	3.7	4.1	4.9	5.6	4.9	5.4	6.2	6.9	8.3	8.9	9.1	9.7	9.5	9.8	9.2
Sept	8.2	7.8	7.7	7.1	6.3	6.0	6.1	6.3	7.3	8.1	9.8	9.7	10.3	10.8	11.1	10.5	10.1
Oct	6.7	6.6	6.9	6.6	7.0	7.0	7.1	7.3	7.7	9.3	10.3	11.2	11.6	12.1	11.9	12.6	11.7
Nov	6.0	6.1	6.6	6.8	6.7	7.2	7.0	7.8	8.1	7.9	8.9	8.9	9.1	9.1	8.9	8.6	8.4
Dec	6.9	7.3	7.4	7.4	7.3	7.8	7.7	7.5	7.7	7.8	8.2	8.4	8.7	8.9	8.9	9.3	9.2
Year	6.4	3.3	6.4	6.3	6.4	6.4	6.4	6.5	7.2	8.0	9.0	9.5	10.0	10.4	10.4	10.5	10.2

SALT LAKE CITY, UTAH.

[λ = 40° 46′ N.; φ = 111° 54′ W.]

Jan	5.3	5.2	5.3	5.7	6.2	5.8	5.5	5.5	5.3	5.7	5.5	5.9	6.9	7.0	7.5	7.8	8.3
Feb	3.5	3.7	3.5	4.0	3.5	4.3	3.6	3.4	3.5	3.5	3.6	4.1	4.2	5.1	5.5	6.2	6.4
Mar	6.4	7.2	6.5	5.6	5.6	5.6	5.4	5.3	5.7	6.0	6.3	7.3	8.7	9.8	11.5	12.2	13.0
Apr	5.7	6.1	6.1	5.9	5.4	5.3	5.0	5.1	5.2	5.1	5.9	7.7	9.9	11.1	11.8	12.6	13.5
May	5.2	5.4	5.3	5.7	5.1	4.5	4.9	5.3	5.2	5.4	6.4	8.1	9.7	11.2	11.3	10.9	11.5
June	5.2	6.0	5.0	5.5	5.2	4.3	4.2	4.6	4.2	4.1	4.4	5.9	7.6	8.3	9.0	9.6	9.3
July	5.1	4.3	4.2	4.2	4.5	4.5	4.1	4.5	4.2	4.3	4.1	5.3	6.4	7.4	8.3	9.0	9.4
Aug	4.2	4.3	3.8	3.4	3.7	3.5	3.8	3.6	3.7	3.1	3.1	3.5	5.5	7.5	9.2	9.9	9.4
Sept	5.6	5.7	5.4	4.9	5.7	5.8	5.7	5.5	5.0	4.8	4.7	5.8	8.4	9.3	10.8	11.7	11.0
Oct	4.8	5.2	5.1	4.9	4.7	4.4	4.4	4.8	4.5	4.0	4.1	4.3	4.6	6.0	7.3	7.8	8.5
Nov	4.3	4.5	4.8	4.5	4.3	4.2	4.2	4.5	4.6	4.4	4.7	5.1	5.7	5.6	6.7	6.9	6.7
Dec	3.8	3.9	4.1	4.0	3.9	4.2	4.2	4.2	4.2	4.7	4.7	5.4	6.2	6.9	7.2	7.5	7.4
Year	4.9	5.1	4.9	4.9	4.8	4.7	4.6	4.7	4.6	4.6	4.8	5.7	7.0	7.9	8.8	9.3	9.5

SAN DIEGO, CAL.

[λ = 32° 43′ N.; φ = 117° 10′ W.]

Jan	5.3	4.6	4.2	4.6	4.8	5.0	5.2	5.5	5.8	5.6	5.3	4.5	4.3	5.2	6.3	6.7	7.3
Feb	3.9	3.9	3.6	3.6	3.6	3.5	3.4	3.9	3.9	4.0	3.8	3.2	4.3	6.0	7.1	8.1	8.8
Mar	3.8	4.0	3.8	3.9	3.8	3.7	3.7	3.5	3.5	3.6	3.4	4.1	5.0	6.8	7.5	8.3	8.9
Apr	3.0	2.7	3.0	3.0	3.2	3.8	3.5	3.4	3.5	3.0	3.2	3.9	5.8	6.7	8.3	9.2	9.4
May	3.8	3.5	3.6	3.6	3.5	3.4	3.3	3.5	3.7	3.3	4.0	5.0	7.0	8.3	9.2	10.1	10.2
June	3.5	3.5	3.3	3.2	3.1	3.0	3.1	2.8	2.8	3.2	3.8	4.9	7.7	8.8	9.8	10.3	10.3
July	3.4	2.7	3.0	3.1	3.0	2.8	2.8	2.7	2.8	3.1	4.1	5.4	7.7	9.2	9.9	10.3	10.6
Aug	2.8	2.2	2.4	2.5	2.2	2.3	2.3	2.6	3.0	2.9	3.6	4.8	6.7	8.6	10.0	10.4	10.4
Sept	2.2	2.3	2.3	2.8	3.0	2.9	2.8	2.4	2.9	2.4	3.2	4.1	5.9	7.9	9.6	9.7	9.9
Oct	2.9	3.2	3.1	2.9	2.9	3.1	3.3	3.2	3.1	3.0	3.1	4.1	5.7	7.6	9.5	10.1	10.5
Nov	4.4	4.8	4.5	4.4	4.6	4.5	4.7	4.5	4.2	4.0	4.2	3.8	4.7	6.0	7.6	8.9	8.7
Dec	2.9	3.1	3.6	3.7	3.9	3.4	3.2	3.9	3.5	3.4	3.0	2.4	2.7	3.8	5.5	7.2	8.4
Year	3.5	3.4	3.4	3.4	3.5	3.4	3.4	3.5	3.6	3.5	3.7	4.2	5.6	7.1	8.4	9.1	9.4

WIND—VELOCITY AND FREQUENCY—Continued.

ST. LOUIS, MO.

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

6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1895.
12.7	12.4	12.9	13.0	13.5	13.0	12.8	12.8	56	118	55	33	107	78	88	122	143	0	Jan.
13.1	12.2	12.0	11.1	11.4	11.3	11.3	11.6	36	81	35	23	68	77	95	125	168	0	Feb.
13.9	13.3	13.0	13.3	13.4	13.7	13.3	13.6	46	115	76	17	114	123	110	64	125	0	Mar.
13.7	12.7	11.4	10.4	10.5	9.9	10.8	11.6	43	119	103	78	144	88	46	46	91	5	Apr.
14.6	13.0	10.9	9.9	9.7	10.5	10.6	11.8	39	43	73	50	181	200	86	29	82	0	May.
11.1	11.1	10.3	8.9	9.1	9.0	7.6	8.8	48	78	74	31	127	123	91	115	74	7	June.
10.8	9.5	9.4	9.0	8.5	7.9	7.4	8.9	39	92	127	55	96	178	68	63	61	4	July.
9.8	9.1	8.0	7.8	7.8	8.1	7.6	8.2	37	83	67	30	51	193	130	99	74	17	Aug.
11.7	10.3	8.9	9.4	9.7	9.5	9.8	10.2	41	67	55	38	112	227	90	33	97	1	Sept.
10.6	9.6	8.7	8.6	8.4	8.5	8.9	9.4	36	108	50	39	44	148	102	74	167	12	Oct.
12.5	12.4	11.9	12.3	11.8	11.3	11.6	11.9	42	111	48	26	192	136	46	55	105	1	Nov.
13.3	12.5	12.3	12.2	12.8	12.8	12.2	12.4	37	97	28	20	132	155	100	72	140	0	Dec.
12.3	11.5	10.8	10.5	10.6	10.5	10.3	10.9	.....	1,112	791	440	1,368	1,726	1,052	897	1,327	47	Year.

ST. PAUL, MINN.

[h_a=124 ft.; local time, 1h 12m slow.]

9.7	8.6	8.8	7.7	7.6	7.2	7.4	8.2	36	8	34	41	152	26	129	138	200	16	Jan.
10.0	9.1	8.1	7.7	7.8	7.3	7.3	7.7	29	10	18	14	60	62	205	162	122	19	Feb.
12.0	10.4	9.2	8.6	9.0	8.6	8.3	9.9	38	31	82	39	95	63	128	161	132	13	Mar.
9.4	8.5	7.1	6.0	5.8	6.3	5.7	7.8	33	68	107	102	180	35	33	44	123	28	Apr.
10.3	9.7	9.1	7.6	7.5	7.0	6.3	8.5	36	37	36	44	252	96	90	43	140	6	May.
9.8	9.2	8.5	6.4	6.0	6.4	6.3	7.4	32	20	23	44	220	80	114	121	83	15	June.
9.0	8.3	7.0	5.3	4.5	4.3	3.8	6.3	36	34	57	68	160	58	77	100	154	36	July.
8.0	7.1	6.1	6.4	5.0	4.3	4.5	6.5	36	30	30	41	138	69	63	111	213	49	Aug.
9.9	9.2	7.6	7.4	7.9	8.1	8.1	8.4	55	10	29	42	242	108	101	83	82	23	Sept.
10.1	9.0	8.2	8.7	8.2	7.7	7.1	8.9	36	8	20	20	132	89	146	172	143	14	Oct.
7.1	6.7	6.1	6.1	6.0	6.2	5.9	7.3	25	49	21	12	198	89	72	87	179	13	Nov.
8.2	7.5	7.2	6.8	6.7	7.1	7.2	7.8	35	35	10	18	180	99	100	111	174	17	Dec.
9.5	8.6	7.8	7.1	6.8	6.7	6.5	7.9	.....	340	467	485	2,009	874	1,258	1,333	1,745	249	Year.

SALT LAKE CITY, UTAH.

[h_a=90 ft.; local time, 2h 27m slow.]

7.1	6.9	5.8	5.7	5.7	6.2	5.5	6.1	48	10	24	44	183	170	87	114	111	1	Jan.
6.4	6.0	5.5	4.4	3.9	3.7	3.9	4.4	24	12	33	39	162	100	82	144	98	2	Feb.
12.0	10.4	9.8	8.3	7.5	7.2	6.5	7.9	40	60	46	50	167	124	65	81	150	1	Mar.
13.0	11.9	10.6	8.5	6.1	5.2	5.2	7.8	38	77	43	41	153	82	42	72	210	0	Apr.
10.9	11.1	9.5	7.5	6.5	6.3	5.3	7.4	36	61	71	65	127	103	43	56	217	1	May.
9.1	7.8	7.2	6.3	5.9	6.7	6.5	6.3	34	67	69	70	155	54	40	66	197	2	June.
9.8	8.4	6.9	6.5	6.5	6.2	6.0	6.0	28	56	60	103	204	106	27	31	143	14	July.
9.9	8.4	7.8	6.4	5.2	5.1	5.2	5.6	36	63	36	72	218	102	44	28	164	17	Aug.
12.2	10.3	9.2	7.0	5.3	5.7	5.9	7.1	38	53	71	75	170	72	20	55	202	2	Sept.
8.7	7.2	5.2	4.1	4.2	4.4	4.7	5.3	28	46	64	105	170	52	32	98	176	1	Oct.
5.6	4.7	4.4	3.6	4.2	4.6	4.4	4.9	30	25	43	61	240	105	79	65	91	11	Nov.
7.4	6.0	5.3	5.0	4.6	3.9	3.9	5.1	44	44	31	102	198	103	74	75	104	13	Dec.
9.3	8.3	7.3	6.1	5.5	5.4	5.2	6.2	.....	574	591	827	2,147	1,173	635	885	1,863	65	Year.

SAN DIEGO, CAL.

[h_a=85 ft.; 70 ft. (*a*); local time, 2h 49m slow.]

7.4	7.5	6.6	4.9	4.6	4.6	4.6	5.4	22	118	164	28	33	50	59	128	164	0	Jan.
8.6	8.0	7.2	5.9	4.3	3.6	3.6	5.0	25	160	77	7	7	23	75	168	146	9	Feb.
8.9	8.9	8.4	7.1	5.4	4.4	3.9	5.3	24	116	61	6	6	47	84	206	214	4	Mar.
9.4	9.0	8.2	7.0	5.7	3.8	3.1	5.2	16	125	39	10	2	16	119	222	182	5	Apr.
10.2	9.5	8.5	7.4	5.9	4.6	4.1	5.8	23	5	21	16	25	95	225	240	115	2	May.
9.8	8.9	8.4	7.2	5.9	4.9	3.9	5.7	17	31	23	13	20	65	254	170	140	4	June.
10.2	9.7	8.9	9.1	6.6	5.1	4.3	5.8	16	50	18	6	11	15	205	246	193	0	July.
10.2	9.6	8.5	7.5	5.7	4.8	3.8	5.4	16	29	19	6	8	22	157	307	182	14	Aug.
9.8	9.6	8.3	6.2	4.5	3.6	2.8	5.1	18	74	81	20	12	23	69	152	285	4	Sept.
9.9	8.9	7.5	5.7	4.3	3.3	3.0	5.2	16	77	103	9	18	62	59	118	290	8	Oct.
8.7	7.8	5.9	4.7	3.9	4.1	4.1	5.3	26	56	217	88	4	27	55	133	127	13	Nov.
8.5	7.6	5.9	3.7	2.7	3.2	3.0	4.2	18	47	263	86	3	9	10	86	187	53	Dec.
9.3	8.8	7.7	6.4	5.0	4.2	3.7	5.3	.....	888	1,086	295	149	454	1,371	2,176	2,225	116	Year.

a Elevation changed May 1.

WIND—VELOCITY AND FREQUENCY—Continued.

SAN FRANCISCO, CAL.

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

1895.	1h a. m.	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h
Jan	8.2	7.5	7.6	7.4	7.9	7.4	7.8	8.1	8.4	8.6	8.5	10.3	10.5	11.7	12.0	12.1	12.2
Feb	5.6	5.5	4.9	4.6	4.7	4.5	5.2	5.2	5.2	5.3	5.5	6.2	6.2	6.9	6.7	7.2	9.4
Mar	8.5	8.2	7.9	7.8	7.3	6.8	6.5	6.8	6.5	6.5	6.8	7.5	8.2	8.1	9.0	10.6	12.3
Apr	10.2	9.1	6.9	6.9	7.1	6.1	5.5	6.7	6.2	6.6	7.1	8.0	8.2	9.6	11.6	13.8	16.0
May	12.4	11.7	10.9	10.5	9.3	8.8	8.8	8.8	8.3	8.1	8.2	9.5	10.0	12.5	15.5	17.5	18.2
June	12.3	12.1	10.8	10.0	9.7	8.3	7.3	7.0	6.9	7.2	7.1	7.7	9.7	12.8	16.5	19.8	22.4
July	14.5	13.8	12.6	11.2	11.2	10.1	9.9	9.9	9.5	9.5	10.2	10.5	11.9	14.1	17.1	20.5	22.7
Aug	13.3	11.6	11.1	10.6	10.2	9.0	8.2	8.4	7.6	7.4	8.1	8.1	9.1	11.5	14.2	17.4	20.2
Sept	10.5	9.5	9.5	8.5	8.4	7.7	7.3	7.1	6.9	6.8	6.8	7.1	8.6	9.4	11.4	14.0	16.4
Oct	8.4	7.5	7.4	6.2	5.5	5.4	5.5	5.6	5.6	5.4	5.0	4.6	4.9	6.0	7.3	9.4	11.7
Nov	7.0	7.1	6.3	5.2	5.7	6.1	6.4	6.0	6.5	6.5	6.8	6.9	7.1	7.3	7.6	8.1	9.4
Dec	6.3	6.4	6.2	6.2	6.5	6.3	6.1	6.1	6.4	7.3	7.1	6.9	7.3	8.0	8.3	8.6	9.1
Year	9.8	9.2	8.5	7.9	7.8	7.2	7.0	7.1	7.0	7.1	7.3	7.8	8.5	9.8	11.4	13.2	15.0

SANTA FE, N. MEX.

[λ = 35° 41′ N.; φ = 105° 57′ W.]

Jan	5.3	5.5	5.6	5.2	5.3	5.9	6.3	6.3	5.8	6.4	6.4	7.9	9.4	11.1	10.9	10.7	9.5
Feb	6.3	6.4	6.6	7.0	7.1	6.8	7.2	6.9	6.9	7.1	8.5	9.2	9.7	10.5	10.8	9.5	9.0
Mar	6.1	5.5	5.4	5.1	4.7	4.6	4.8	5.0	4.7	5.2	7.1	9.4	10.3	11.9	12.3	12.9	12.3
Apr	8.0	8.1	6.8	5.6	5.2	4.9	4.3	4.7	5.3	6.4	7.8	9.9	10.1	11.5	11.9	11.6	11.9
May	6.1	6.3	5.7	5.6	5.5	5.6	4.9	4.5	4.9	6.4	8.0	9.2	9.5	9.8	10.8	11.9	11.7
June	6.5	6.1	5.7	5.3	4.6	4.9	5.0	5.0	4.5	4.8	6.1	7.7	8.3	8.9	10.0	10.6	10.9
July	4.5	4.0	4.6	4.0	4.2	4.4	4.3	3.7	4.2	4.9	5.9	6.6	7.3	8.1	8.8	8.7	8.3
Aug	5.5	4.9	4.8	4.1	4.0	3.5	3.2	3.6	3.5	4.2	5.9	5.6	6.0	6.4	7.6	7.8	6.8
Sept	6.5	6.3	4.4	4.2	4.3	3.9	3.8	3.9	4.0	3.6	4.7	6.0	6.8	7.4	8.3	9.6	9.9
Oct	6.4	5.3	4.3	3.9	2.9	3.4	3.1	3.1	3.1	3.4	4.5	6.1	6.8	7.3	7.5	7.3	7.6
Nov	4.7	4.7	4.6	5.3	5.1	5.1	5.0	4.9	4.8	6.0	7.1	8.4	8.6	9.3	9.4	9.8	9.9
Dec	5.3	5.5	5.6	6.2	6.4	6.0	5.5	6.4	6.5	6.6	7.5	9.0	9.8	11.0	10.7	9.8	9.6
Year	5.9	5.7	5.3	5.1	4.9	4.9	4.8	4.8	4.8	5.4	6.6	7.9	8.6	9.4	9.9	10.0	9.8

SAVANNAH, GA.

[λ = 32° 5′ N.; φ = 81° 5′ W.]

Jan	6.5	6.5	7.0	7.2	7.7	7.7	7.9	7.5	7.5	8.3	9.3	10.0	10.3	9.9	10.1	10.1	9.1
Feb	8.7	8.7	8.8	8.9	9.5	9.2	8.9	9.0	9.3	9.7	10.1	11.1	11.5	12.0	11.8	12.1	11.8
Mar	8.0	8.7	8.6	8.4	8.8	8.3	8.1	7.6	8.9	9.9	10.2	10.4	10.4	11.0	10.5	10.4	10.3
Apr	8.4	7.5	7.8	8.2	7.8	7.1	7.1	8.1	9.0	9.0	9.8	10.8	11.9	12.5	12.8	12.4	12.6
May	5.2	5.0	4.7	4.6	4.5	4.6	5.5	6.2	7.2	7.3	7.8	8.3	8.5	9.0	10.1	10.6	10.6
June	5.7	5.5	5.0	4.6	4.7	4.8	5.1	6.3	7.0	6.4	6.7	7.0	7.6	8.2	9.4	10.4	10.4
July	5.9	5.2	4.9	4.8	5.0	5.0	5.2	5.8	6.4	6.3	6.2	6.8	7.8	8.4	8.7	10.2	9.1
Aug	4.9	4.8	4.3	4.4	4.5	4.4	4.6	4.7	5.5	6.1	6.6	7.1	7.6	8.0	8.5	9.4	9.0
Sept	3.8	3.5	4.0	4.1	4.3	4.8	4.4	4.3	5.5	6.5	6.6	7.7	8.3	9.1	9.7	9.9	9.8
Oct	6.9	6.9	6.8	6.6	6.9	7.0	7.4	7.6	8.2	9.7	10.2	10.0	10.6	10.1	10.3	10.1	9.8
Nov	7.7	7.3	7.8	8.2	8.2	8.3	8.2	7.8	7.8	8.5	9.2	9.9	9.3	10.1	9.8	10.1	9.2
Dec	6.6	6.6	7.0	6.9	7.4	7.5	7.7	6.9	7.6	8.4	8.9	8.8	8.7	8.9	9.2	9.5	8.7
Year	6.5	6.4	6.4	6.4	6.6	6.6	6.7	6.8	7.5	8.0	8.5	9.0	9.4	9.8	10.1	10.4	10.0

WASHINGTON, D. C.

[λ = 38° 54′ N.; φ = 77° 3′ W.]

Jan	5.7	6.0	5.5	5.1	5.1	5.0	5.3	5.7	6.4	7.0	7.7	7.8	8.7	8.9	9.3	9.6	8.7
Feb	7.5	6.8	6.5	6.6	7.6	8.0	8.4	8.2	9.1	10.4	12.1	12.5	12.9	13.4	12.9	12.1	11.0
Mar	7.7	6.9	6.8	6.5	7.2	8.3	7.7	8.7	10.1	11.1	11.8	11.5	12.0	12.4	12.3	12.4	11.8
Apr	7.9	7.3	7.1	6.7	6.1	6.0	6.9	8.2	9.4	9.7	10.1	10.6	11.2	11.4	11.9	11.9	11.3
May	4.3	4.6	4.5	4.6	4.9	4.7	5.7	7.0	7.6	8.5	8.5	8.9	9.5	9.4	9.8	9.5	9.5
June	3.8	3.7	3.4	3.6	3.7	3.7	4.3	5.8	6.6	7.2	7.4	7.5	7.5	7.8	8.1	8.0	6.6
July	2.9	2.9	3.1	3.3	3.3	3.0	3.2	4.9	5.9	6.2	6.8	7.4	7.8	7.9	7.5	7.2	6.5
Aug	3.5	3.0	2.9	2.8	2.7	2.8	3.0	4.3	6.1	7.2	7.1	7.7	8.1	8.0	8.1	7.3	7.1
Sept	3.6	3.4	3.7	3.3	3.0	3.8	3.3	4.0	5.3	6.9	7.5	7.9	8.2	8.3	8.1	8.6	8.2
Oct	5.2	5.1	5.1	4.5	4.8	4.5	4.5	4.6	6.2	8.1	9.3	10.9	11.8	12.0	11.5	11.2	9.3
Nov	6.0	5.8	6.0	5.4	5.2	5.0	5.6	5.5	6.0	7.7	8.1	8.2	8.4	8.2	8.1	8.0	6.9
Dec	6.4	6.2	6.1	6.0	6.5	6.1	5.9	5.7	6.3	7.4	8.4	8.4	9.4	9.1	8.9	8.9	7.4
Year	5.4	5.1	5.1	4.9	5.0	5.1	5.3	6.0	7.1	8.1	8.7	9.1	9.6	9.7	9.7	9.6	8.7

WIND—VELOCITY AND FREQUENCY—Continued.

SAN FRANCISCO, CAL.

[h_a = 167 ft.; local time 3h 10m slow.] [Seventy-fifth Meridian Time.]

6h	7h	8h	9h	10h	11h	Mid.	Mean.	Max. vel.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Calm.	1895.
11.7	10.5	9.9	10.4	10.1	10.0	9.2	9.5	44	43	40	74	240	44	128	32	137	6	Jan.
11.2	11.8	12.5	11.2	9.6	8.4	7.1	7.1	31	64	41	22	68	29	117	171	138	22	Feb.
13.8	14.5	15.2	14.8	13.2	12.2	10.9	9.6	36	47	40	28	96	38	120	279	90	6	Mar.
17.7	18.6	18.5	17.0	14.8	12.8	10.9	10.7	35	26	31	21	36	48	107	381	56	14	Apr.
19.6	19.3	19.4	18.8	17.5	15.2	13.5	13.0	36	46	31	7	15	13	182	412	35	3	May.
24.7	25.1	25.9	24.2	21.5	19.0	14.4	14.3	40	3	14	5	13	9	355	299	16	6	June.
23.6	24.1	24.7	23.2	21.6	18.3	16.3	15.5	38	0	6	2	9	14	417	291	4	1	July.
22.3	22.4	23.0	22.3	20.7	18.5	15.0	13.8	36	3	4	3	5	11	379	333	6	0	Aug.
18.3	19.1	19.9	19.0	17.7	14.6	11.7	11.5	35	58	22	9	26	27	214	314	36	14	Sept.
13.7	15.1	16.9	15.6	14.4	12.0	10.0	8.7	36	56	22	14	22	21	168	350	75	16	Oct.
9.7	10.2	10.9	9.9	10.3	9.5	7.7	7.7	36	178	83	20	62	29	55	178	103	12	Nov.
9.2	9.7	8.8	8.2	7.1	6.2	6.5	7.3	34	241	58	46	114	48	29	83	122	3	Dec.
16.3	16.7	17.1	16.2	14.9	13.1	11.1	10.7	.....	765	392	251	706	331	2,271	3,123	818	103	Year.

SANTA FE, N. MEX.

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

9.2	8.6	6.8	5.5	5.7	5.4	5.3	7.1	31	95	204	28	83	81	108	21	105	19	Jan.
8.0	7.6	6.2	5.0	6.0	6.3	6.2	7.5	26	98	213	25	85	55	106	12	66	12	Feb.
11.9	11.9	10.8	7.0	5.9	5.8	5.3	7.7	45	57	109	30	133	37	165	58	148	7	Mar.
11.8	12.3	11.9	9.6	6.8	7.1	7.8	8.4	38	51	100	40	156	40	179	29	114	11	Apr.
11.6	12.7	12.9	11.6	8.6	7.9	7.8	8.3	38	56	98	41	159	48	199	27	96	20	May.
10.4	10.4	9.5	8.3	7.0	6.5	6.4	7.2	38	23	61	53	210	66	210	31	58	8	June.
9.0	9.4	9.8	8.4	7.6	5.2	4.6	6.3	37	39	105	74	163	58	140	35	103	27	July.
7.2	7.4	7.0	5.6	5.9	6.7	7.3	5.6	27	31	100	84	194	49	129	39	91	27	Aug.
9.0	8.6	8.0	5.6	7.1	7.9	7.7	6.3	34	15	65	23	215	62	190	32	85	32	Sept.
7.8	7.6	5.9	5.3	6.0	6.3	6.6	5.5	31	42	117	47	204	35	150	32	73	44	Oct.
10.0	7.0	4.8	4.6	4.8	5.2	5.0	6.4	42	43	191	25	116	53	144	23	77	48	Nov.
9.3	7.1	5.6	5.6	6.8	7.3	6.5	7.3	27	100	300	13	81	43	76	16	82	33	Dec.
9.6	9.2	8.3	6.8	6.5	6.5	6.4	7.0	.....	650	1,663	483	1,799	628	1,796	355	1,098	288	Year.

SAVANNAH, GA.

[h_a = 86 ft.; local time, 24m slow.]

8.7	7.9	7.4	7.2	7.2	6.8	7.0	8.1	32	122	85	39	60	84	108	139	103	4	Jan.
10.6	9.2	8.5	8.7	8.1	8.0	8.1	9.7	42	84	117	13	55	27	68	117	190	1	Feb.
9.7	8.9	8.5	8.8	8.3	8.1	8.0	9.1	32	31	28	53	144	162	111	80	134	1	Mar.
12.7	11.1	9.1	8.7	8.6	8.3	8.5	9.6	37	51	83	37	85	222	73	97	71	1	Apr.
9.6	8.5	7.3	6.0	6.0	5.7	5.8	7.0	25	51	108	106	186	136	17	55	64	21	May.
10.2	8.4	7.6	6.9	6.8	6.6	6.0	7.0	35	31	71	34	107	265	143	37	31	1	June.
8.9	8.0	7.0	6.4	6.4	6.1	6.0	6.7	30	43	29	35	93	138	247	108	42	9	July.
8.4	6.9	5.8	5.5	5.1	4.7	4.7	6.1	26	50	37	43	105	167	205	75	54	8	Aug.
8.6	6.6	5.6	5.6	5.1	4.5	4.3	6.1	28	112	142	141	127	67	48	36	37	10	Sept.
7.7	7.0	7.0	7.4	7.5	7.4	7.1	8.2	26	214	165	41	18	45	81	59	119	2	Oct.
7.9	8.2	7.9	7.9	8.2	7.7	8.1	8.5	30	184	137	49	17	86	68	49	128	2	Nov.
7.4	7.7	8.0	8.2	8.0	7.6	7.3	7.9	36	63	71	69	77	97	88	111	163	5	Dec.
9.2	8.2	7.5	7.3	7.1	6.8	6.7	7.8	.....	1,036	1,073	660	1,074	1,496	1,257	963	1,136	65	Year.

WASHINGTON, D. C.

[h_a = 67 ft.; local time, 8m slow.]

6.6	6.9	6.4	6.3	6.5	6.0	5.7	6.7	28	128	61	19	42	159	72	106	147	10	Jan.
9.5	7.8	7.6	7.6	7.9	7.9	8.2	9.3	42	104	12	2	12	80	45	143	250	24	Feb.
10.5	8.5	7.7	7.9	7.7	7.3	7.5	9.3	39	117	71	28	55	150	46	66	206	5	Mar.
9.8	8.7	7.6	6.8	6.8	7.7	7.3	8.7	28	84	146	29	98	132	22	75	128	6	Apr.
8.5	7.0	5.4	4.7	4.3	4.2	4.5	6.7	30	78	88	39	111	159	38	100	112	19	May.
6.7	5.9	4.8	4.1	3.2	3.4	3.6	5.4	38	131	133	68	40	79	51	92	94	32	June.
6.3	4.7	4.1	3.4	2.9	3.5	3.0	4.9	36	102	21	8	41	165	94	106	174	33	July.
6.2	5.3	4.2	4.0	3.8	4.0	3.7	5.1	25	47	36	39	101	198	94	107	91	31	Aug.
7.2	6.0	4.2	3.8	3.4	3.3	3.5	5.4	28	136	64	43	92	160	64	60	80	21	Sept.
7.0	5.7	5.8	6.2	5.8	5.7	5.6	7.1	34	119	64	7	37	155	45	82	228	7	Oct.
6.3	5.7	5.5	4.9	4.8	4.6	5.0	6.3	28	167	106	21	36	128	30	61	145	26	Nov.
6.8	6.6	6.4	6.3	5.8	6.5	6.3	7.0	42	131	52	49	84	137	70	64	129	28	Dec.
7.6	6.6	5.8	5.5	5.2	5.3	5.3	6.8	.....	1,344	854	352	749	1,702	671	1,062	1,784	242	Year.

Blank page retained for pagination

PART III.

MONTHLY AND ANNUAL METEOROLOGICAL SUMMARIES FOR ONE HUNDRED AND FORTY-SIX WEATHER BUREAU STATIONS.

EXPLANATION OF THE TABLES.

For a detailed account of the methods of reduction, etc., the reader is referred to the article on that subject, page 37, Report of the Chief of the Weather Bureau, 1891–92.

Pressure.—The barometer used at Weather Bureau stations for personal observations is the ordinary portable mercurial open cistern. Each instrument is compared with the substandard at Washington before being issued, and a certificate is given showing both the corrections to the attached thermometer and the so-called correction for instrumental error. The latter is not applied except when it exceeds $\pm .006$.

The monthly means and the extremes given in the summaries have been reduced to 32° F., but not to standard gravity. The latter correction is given for each station at the head of the table. Both means and extremes have been deduced from the personal observations at 8 a. m. and 8 p. m., seventy-fifth meridian time.

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 thermometer used is of the mercurial Negretti and Zambra pattern, 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 recorded twice daily, at 8 a. m. and 8 p. m., seventy-fifth meridian time. The maximum thermometer is set daily at 8 a. m., and the minimum at 8 p. m. The extremes given in the summaries are for the civil day, midnight to midnight. The monthly means have been obtained by dividing the sum of the mean maxima and mean minima 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 gauges 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 gauge proper is set within an inclosing cylinder of 8 inches diameter and 2 feet high, which serves as an overflow attachment in the case of heavy rains and as a snow gauge in the winter season.

The sum total of the depth of rain and melted snow is measured to within 0.01 inch not only at the end of every shower, but also at 8 a. m. and 8 p. m., standard time, daily. By adding these two regular observations we obtain the total precipitation for the twenty-four hours preceding 8 p. m. of the civil day to which it is accredited.

The snow caught and retained in the gauge is melted and measured as water. No correction is applied for the snow that is lost out of the gauge 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 gauge 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 the regular telegraph stations of the Weather Bureau than is the case at the voluntary stations whose gauges are located in the open country and near the ground, but this loss does not appear to be so large as to make the monthly and annual sums derived from these two classes of gauges wholly inconsistent with each other; on the contrary, except at a few stations, the differences between the annual rainfall at city and country gauges are not larger than is plausibly due to actual differences in the geographical distribution of rain.

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

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

The cloudiness recorded in the summaries is derived from personal observations. The proportion of sky covered with clouds is estimated by the observer at 8 a. m. and 8 p. m., seventy-fifth meridian time, on a scale of 0–10. The two simultaneous observations can not be combined into a normal 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 are clear, as given under "number of days, etc.," includes those on which the daylight cloudiness has been 0, 1, 2, or 3 tenths; the days partly cloudy are those on which the daylight cloudiness has been 4, 5, 6, or 7 tenths; the cloudy days are 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 one-half of the stations on what is known as the "triple register." The records from 28 of the stations that are furnished with triple registers will be found in Part II. On some of these instruments the direction of the wind is recorded every five minutes, while on the latest pattern a record is made every minute.

The maximum velocities given are for five-minute periods.

A wind velocity of 40 miles per hour is considered as 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 of amounts of dew is given.

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 ojects 1,000 feet distant.

References and abbreviations.—H=height of barometer cistern above mean sea level; h_t=height of thermometer above ground; h_r=height of rain gauge above ground; h_a=height of anemometer above ground.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895.

ABILENE, TEX.

[λ=32° 23′ N.; φ=99° 40′ W.; gravity corr., —0.03.]

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	28.22	28.78	27.81	33.9	45.8	51.8	31.3	41.6	76	5	24	25	68	48	.143	.144	1.15	1.14	4.9	4.2	5.6
February	28.37	28.83	27.96	27.3	36.2	41.8	24.7	33.2	72	—4	23	27	84	72	.153	.173	2.32	1.54	4.2	5.1	5.8
March	28.21	28.58	27.85	45.2	61.7	67.2	44.2	55.7	87	20	37	31	75	36	.239	.184	.15	.10	4.9	4.1	5.1
April	28.16	28.52	27.85	54.4	72.3	77.7	53.4	65.6	89	38	45	41	71	37	.316	.294	2.30	.88	2.5	3.5	3.5
May	28.16	28.60	27.91	61.9	75.2	80.3	59.7	70.0	90	44	55	52	80	47	.448	.406	1.96	.64	4.9	3.5	5.2
June	28.21	28.50	27.95	69.4	82.9	88.2	65.9	77.0	98	54	64	59	82	47	.599	.511	8.40	2.28	4.4	4.8	5.6
July	28.20	28.38	27.91	72.4	83.3	88.5	70.5	79.5	98	62	67	66	83	58	.657	.632	4.63	1.98	5.0	4.3	5.2
August	28.18	28.37	28.05	72.1	85.0	91.8	70.5	81.2	100	65	65	62	80	48	.628	.553	1.27	.76	3.7	3.8	4.8
September	28.24	28.60	27.98	68.3	80.6	86.8	66.7	76.8	97	50	62	58	81	48	.575	.499	3.95	2.66	2.9	2.7	4.6
October	28.33	28.55	28.02	51.0	62.7	70.9	50.3	60.6	88	40	43	44	76	54	.296	.302	4.13	2.38	4.0	3.7	4.9
November	28.31	28.57	27.85	42.7	52.1	59.8	40.9	50.4	77	17	37	41	83	67	.240	.272	2.38	1.14	4.6	3.3	4.3
December	28.27	28.66	27.81	37.0	47.0	55.9	34.5	45.2	74	20	31	30	78	54	.184	.178	2.66	2.24	3.5	1.9	3.5
Year	28.24	28.83	27.81	53.0	65.4	71.7	51.0	61.4	100	—4	46	45	78	51	.373	.346	35.30	2.66	4.1	3.7	4.8

ALBANY, N. Y.

[λ=42° 39′ N.; φ=73° 45′ W.; gravity corr., —0.01.]

Month.	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.
January	29.96	30.45	29.08	19.8	23.7	30.5	14.6	22.6	47	—4	16	19	84	81	.098	.109	1.65	0.43	7.0	4.8	6.5
February	29.85	30.42	28.84	15.4	21.3	26.6	11.4	19.0	42	—12	11	16	81	79	.074	.096	1.63	1.50	6.3	4.4	5.4
March	29.91	30.46	29.23	27.0	30.4	36.9	22.5	29.7	49	10	22	25	80	78	.121	.135	1.31	.36	5.2	4.8	5.8
April	29.96	30.54	29.20	43.5	48.3	55.9	38.3	47.1	82	26	37	38	79	70	.228	.240	3.09	1.39	5.9	5.7	5.6
May	29.95	30.30	29.47	57.7	63.4	72.0	51.1	61.6	92	36	49	49	73	61	.376	.381	1.72	.50	4.5	5.1	4.2
June	29.98	30.35	29.64	69.4	73.4	82.7	62.5	72.6	94	52	61	62	76	68	.545	.556	1.72	.50	4.3	5.2	4.4
July	29.87	30.19	29.61	67.4	71.8	79.9	61.0	70.4	90	54	59	58	74	63	.507	.502	4.02	1.01	5.1	5.2	4.8
August	29.86	30.20	29.63	68.3	71.7	82.2	62.5	72.4	92	48	61	60	78	67	.543	.528	3.14	.89	4.7	4.2	5.6
September	29.96	30.34	29.62	61.0	66.1	77.5	55.9	66.7	97	38	53	53	76	65	.424	.432	1.80	.76	4.6	3.7	4.2
October	29.96	30.51	29.54	43.3	47.1	56.1	38.6	47.4	68	28	38	37	81	70	.234	.233	2.35	1.18	5.5	3.9	5.0
November	30.09	30.58	29.27	38.0	40.6	48.4	33.2	40.8	70	17	35	35	87	80	.214	.214	4.78	1.75	6.5	4.7	6.2
December	30.06	30.68	29.32	27.0	32.7	40.3	23.5	31.9	61	—1	24	28	86	82	.139	.173	2.59	1.24	6.1	5.3	6.5
Year	29.95	30.68	28.84	44.8	49.2	57.4	39.6	48.5	97	—12	39	40	80	72	.292	.300	29.80	1.75	5.5	4.8	5.4

ALPENA, MICH.

[λ=45° 5′ N.; φ=83° 30′ W.; gravity corr., 0.00.]

Month.	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.
January	29.24	29.87	28.30	14.5	19.3	23.9	10.9	17.4	41	—2	10	15	81	80	.071	.085	2.72	0.62	7.6	5.7	6.7
February	29.30	29.82	28.43	10.5	17.6	22.1	7.7	14.9	53	—23	6	12	78	77	.063	.084	.51	.16	5.4	5.3	5.4
March	29.33	29.73	28.78	19.3	23.9	30.3	13.7	22.0	55	—8	14	18	77	74	.086	.101	.26	.08	5.0	2.5	4.1
April	29.39	29.87	28.94	38.7	40.3	47.4	33.8	40.6	72	23	32	33	79	77	.186	.190	2.70	.72	5.6	6.0	6.0
May	29.34	29.67	28.92	52.2	53.1	62.8	42.6	52.7	95	27	45	44	77	74	.323	.318	2.32	.81	5.5	5.2	5.7
June	29.38	29.72	29.00	62.8	63.2	72.4	54.1	63.2	90	42	54	53	73	70	.431	.422	1.38	.68	3.7	4.0	4.4
July	29.32	29.65	28.94	60.3	65.2	72.5	52.6	62.6	84	45	51	52	73	63	.385	.391	.52	.21	3.5	4.7	4.9
August	29.25	29.50	28.93	60.3	63.8	71.7	54.5	63.1	87	40	54	55	80	74	.423	.441	3.10	.75	5.0	4.1	5.0
September	29.31	29.65	28.93	58.6	62.1	69.8	52.2	61.0	91	34	50	52	75	71	.386	.408	2.57	.93	4.7	4.0	4.7
October	29.29	29.76	28.70	38.5	42.4	49.2	34.1	41.6	66	20	33	32	80	69	.190	.189	.77	.36	6.4	5.6	6.1
November	29.41	29.84	28.57	30.3	34.2	38.4	27.6	33.0	62	8	26	28	84	77	.148	.162	2.15	.77	7.3	7.0	7.1
December	29.29	29.80	28.67	25.4	27.6	31.7	21.7	26.7	54	6	21	22	81	79	.121	.126	2.59	.76	8.1	7.2	7.7
Year	29.32	29.87	28.30	39.3	42.7	49.4	33.8	41.6	95	—23	33	35	78	74	.234	.243	21.59	.93	5.6	5.1	5.5

AMARILLO, TEX.

[λ=35° 13′ N.; φ=101° 50′ W.; gravity corr., —0.02.]

Month.	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.
January	26.19	26.74	25.76	25.5	36.4	45.1	21.6	33.4	67	—4	16	13	69	45	.090	.080	1.60	1.34	4.9	4.5	5.0
February	26.32	26.73	26.00	20.5	29.6	35.2	15.4	25.3	71	—7	17	21	86	76	.111	.132	1.92	.97	4.8	4.4	5.3
March	26.22	26.55	25.86	34.0	52.0	60.4	31.8	46.1	84	7	22	18	65	33	.120	.104	.16	.07	4.0	5.2	4.9
April	26.21	26.59	25.77	46.0	63.1	70.2	42.5	56.4	87	24	33	22	65	30	.207	.138	1.31	.75	4.2	4.7	4.6
May	26.21	26.64	25.86	53.9	71.0	75.8	51.4	63.6	93	37	40	32	64	30	.277	.201	1.78	.63	4.8	5.4	5.3
June	26.31	26.57	26.00	61.7	73.4	79.9	58.3	69.1	94	47	55	53	79	54	.435	.424	6.84	2.52	5.9	6.5	5.9
July	26.31	26.47	26.10	65.9	77.6	81.3	63.2	72.5	94	54	60	60	85	58	.532	.513	2.88	.88	6.8	5.5	5.9
August	26.30	26.49	26.10	65.6	78.8	84.9	63.5	74.2	91	59	60	58	83	52	.518	.481	3.87	1.51	3.8	5.1	4.8
September	26.30	26.64	26.05	60.6	75.6	81.8	58.7	70.2	95	38	50	46	71	39	.386	.335	.57	.46	4.1	4.0	4.0
October	26.37	26.64	26.09	43.5	56.5	64.1	42.1	53.1	80	31	36	36	77	52	.224	.223	2.26	.93	3.8	3.9	4.1
November	26.29	26.62	25.84	33.0	45.7	54.1	30.4	42.2	77	15	26	27	77	54	.142	.151	.81	.33	3.4	3.3	3.8
December	26.26	26.61	25.77	27.3	38.3	46.1	24.0	35.0	72	7	20	20	75	52	.110	.111	.79	.40	3.5	3.9	4.0
Year	26.27	26.74	25.76	44.8	58.2	65.0	41.9	53.4	95	—7	36	34	75	48	.263	.241	24.79	2.52	4.5	4.7	4.8

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895.

ABILENE, TEX.

[H = 1,749 ft.; h_t = 47 ft.; h_r = 36 ft.; h_a = 54 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	8.7	S.	30	NW.	0	12	5	4	8	13	8	4	8	0	9	11	11	3	2	2	0	0	3	0	15	1	0
February	10.1	N.	40	NE.	1	15	5	3	5	11	1	6	10	0	10	4	14	7	2	4	0	4	12	0	20	0	0
March	11.8	SW.	48	NW.	2	14	7	1	10	10	13	4	3	0	9	14	8	5	2	0	0	0	1	0	6	3	0
April	12.6	SE.	56	NW.	4	10	3	1	18	13	4	3	8	0	13	14	3	8	8	0	0	0	0	0	0	6	0
May	10.9	SE.	38	W.	0	3	8	5	24	15	4	1	2	0	10	7	14	7	7	0	0	0	0	1	0	7	0
June	9.5	S.	52	NE.	2	3	8	3	18	19	4	1	4	0	6	14	10	12	11	0	1	0	0	10	0	14	0
July	7.7	S.	34	NE.	0	1	8	3	17	22	6	1	2	2	10	13	8	7	7	0	0	0	0	16	0	7	0
August	7.1	SE.	25	SE.	0	5	1	3	24	17	7	2	3	0	9	18	4	5	4	0	0	0	0	23	0	3	0
September	9.0	SW.	30	NW.	0	4	7	0	16	22	8	2	1	0	9	14	7	7	4	0	0	0	0	19	0	3	0
October	6.9	N.	35	N.	0	20	8	3	12	11	4	3	1	0	13	7	11	7	5	0	0	1	0	0	0	2	0
November	9.9	N.	34	N.	0	19	3	0	7	14	10	5	2	0	16	4	10	11	11	2	0	1	1	0	4	1	0
December	10.4	W.	36	NW.	0	11	5	0	3	13	6	11	13	0	19	5	7	6	4	3	0	0	0	0	14	1	0
Year	9.6	S.	56	NW.	9	117	63	26	162	180	75	43	57	2	133	125	107	85	67	11	1	6	17	69	59	48	0

ALBANY, N. Y.

[H = 85 ft.; h_t = 84 ft.; h_r = 99 ft.; h_a = 113 ft.]

Month.	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.
January	7.2	S.	38	SE.	0	10	0	1	4	27	8	7	5	0	7	9	15	12	8	8	1	1	19	0	29	0	0
February	9.0	W.	37	W.	0	7	1	0	1	17	0	13	17	0	10	8	10	6	2	6	0	0	18	0	28	0	0
March	9.3	W.	36	SE.	0	14	1	0	2	13	1	17	14	0	7	14	10	13	8	9	0	2	8	0	28	1	0
April	8.8	S.	28	S.	0	14	3	0	7	16	1	10	9	0	12	5	13	13	12	0	0	0	0	0	7	0	0
May	8.4	S.	34	SE.	0	1	2	0	12	23	2	13	8	1	16	8	7	8	7	0	0	0	0	3	0	2	0
June	7.0	S.	27	SE.	0	7	5	3	6	26	2	4	5	2	15	7	8	15	12	0	0	0	0	5	0	4	0
July	6.5	S.	25	SE.	0	8	4	2	7	21	3	9	7	1	11	13	7	12	10	0	1	0	0	0	0	4	0
August	6.5	S.	28	S.	0	5	5	2	8	18	0	13	9	2	6	16	9	14	9	0	0	0	0	2	0	4	0
September	6.8	S.	36	NW.	0	5	2	1	8	19	1	10	14	0	13	11	6	7	6	0	0	2	0	4	0	2	0
October	8.4	S.	38	S.	0	11	2	0	9	15	3	13	9	0	12	12	7	6	5	0	0	1	0	0	3	0	0
November	6.7	S.	34	SE.	0	16	1	3	1	22	2	6	9	0	10	3	17	13	7	3	0	3	1	0	14	1	0
December	8.4	S.	42	SE.	1	18	0	3	4	19	4	8	6	0	6	11	14	10	5	1	0	1	0	0	22	0	0
Year	7.8	S.	42	SE.	1	116	26	15	69	236	27	123	112	6	125	117	123	129	91	27	2	10	55	14	131	18	0

ALPENA, MICH.

[H = 609 ft.; h_t = 61 ft.; h_r = 54 ft.; h_a = 65 ft.]

Month.	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.
January	11.3	W	40	NW.	1	4	5	3	4	3	12	22	9	0	5	10	16	19	13	18	0	1	30	0	31	0	0
February	10.9	W	36	NW.	0	2	0	0	2	6	9	17	20	0	10	7	11	11	6	11	0	0	20	0	27	0	1
March	12.2	NW.	50	NW.	1	3	2	5	5	4	7	11	25	0	14	11	6	8	3	5	0	0	19	0	30	0	0
April	8.9	NW.	30	SW.	0	8	5	15	10	3	2	4	13	0	9	9	12	12	9	5	0	1	0	0	9	0	0
May	8.9	SE.	33	NW.	0	4	6	3	17	9	7	5	11	0	7	16	8	8	7	2	0	0	0	3	6	2	0
June	7.9	SE.	28	SE.	0	5	2	4	25	4	6	5	9	0	12	15	3	9	6	0	0	1	0	1	0	3	1
July	8.1	NW.	33	W.	0	7	5	0	11	7	5	6	21	0	8	21	2	6	4	0	0	0	0	0	0	1	0
August	7.5	NW.	27	NW.	0	3	1	3	10	10	5	10	20	0	12	11	8	13	9	0	0	0	0	0	0	6	0
September	9.8	SW.	47	SW.	1	5	1	2	9	12	14	6	11	0	12	12	6	10	6	0	0	0	0	2	0	5	0
October	10.4	SW.	36	W.	0	2	3	3	5	6	18	10	15	0	6	16	9	12	5	6	0	2	1	0	11	0	0
November	9.2	SW.	30	N.	0	6	4	1	6	11	14	8	10	0	3	13	14	13	8	7	0	0	8	0	20	0	0
December	9.5	SW.	40	SW.	1	1	4	5	5	10	15	14	7	1	5	6	20	15	14	8	0	1	15	0	23	0	0
Year	9.6	NW.	50	NW.	4	50	38	44	109	85	114	118	171	1	103	147	115	136	90	62	0	6	93	6	157	17	2

AMARILLO, TEX.

[H = 3,691 ft.; h_t = 53 ft.; h_r = 46 ft.; h_a = 61 ft.]

Month.	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.
January	16.7	S.	76	W.	8	14	2	2	3	19	11	4	6	1	11	11	9	5	4	5	0	1	6	0	24	0	0
February	14.0	N.	56	N.	5	20	2	5	2	12	7	3	4	1	10	9	9	11	7	8	0	1	12	0	21	0	0
March	b18.7	SW.	b52	SW.	b13	13	5	3	2	14	18	4	3	0	11	13	7	4	2	2	0	0	1	0	15	0	0
April	c21.2	S.	d84	NW.	d12	19	3	1	3	22	6	3	3	0	10	13	7	7	5	2	2	0	0	0	4	3	0
May	20.7	S.	58	N.	12	10	2	7	2	31	7	2	1	0	10	11	10	7	7	0	1	0	0	3	0	2	0
June	17.7	S.	72	S.	12	6	6	9	5	23	8	0	2	1	8	10	12	17	15	0	2	0	0	3	0	13	0
July	14.7	S.	44	NE.	3	5	6	7	5	29	5	4	0	1	8	9	14	12	9	0	0	0	0	5	0	5	0
August	14.0	S.	44	N.	5	5	3	6	3	31	7	6	1	0	11	12	8	10	9	0	1	0	0	5	0	9	0
September	18.7	S.	52	S.	6	3	2	2	1	37	11	3	1	0	15	6	9	5	3	0	0	0	0	7	0	3	0
October	14.5	S.	48	N.	4	12	4	3	3	29	1	2	2	1	17	5	9	10	8	0	0	2	0	0	1	1	0
November	15.6	SW.	46	SW.	10	15	1	2	0	14	18	5	5	0	15	9	6	8	5	3	0	0	4	0	16	0	0
December	14.7	N.	46	SW.	4	23	2	2	0	8	13	7	5	2	15	11	5	6	4	5	0	0	5	0	28	0	0
Year	16.8	S.	84	NW.	94	145	38	49	34	269	112	43	33	7	141	119	105	102	78	25	6	4	28	23	109	36	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

b For 29¼ days. c For $28\frac{7}{12}$ days. d For 27 days.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

ASTORIA, OREG.

[λ=46° 57′ N.; φ=124° W.; gravity corr., 0.00.]

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	.....	.....	.....	.....	.....	45.2	35.4	40.3	60	28	.....	.....	.....	.....	.....	.....	14.84	4.93	.....	.....	.....
February	.....	.....	.....	.....	.....	49.4	39.7	44.6	57	32	.....	.....	.....	.....	.....	.....	3.21	.63	.....	.....	.....
March	.....	.....	.....	.....	.....	52.2	39.2	45.7	61	27	.....	.....	.....	.....	.....	.....	6.63	1.50	.....	.....	.....
April	.....	.....	.....	.....	.....	56.4	42.1	49.2	68	34	.....	.....	.....	.....	.....	.....	6.30	1.52	.....	.....	.....
May	.....	.....	.....	.....	.....	61.2	47.8	54.5	85	42	.....	.....	.....	.....	.....	.....	8.52	1.44	.....	.....	.....
June	.....	.....	.....	.....	.....	65.6	50.5	58.0	80	43	.....	.....	.....	.....	.....	.....	1.15	.72	.....	.....	.....
July	.....	.....	.....	.....	.....	69.7	54.2	62.0	91	46	.....	.....	.....	.....	.....	.....	1.15	.68	.....	.....	.....
August	.....	.....	.....	.....	.....	69.9	53.0	61.4	84	45	.....	.....	.....	.....	.....	.....	.09	.09	.....	.....	.....
September	.....	.....	.....	.....	.....	62.6	49.9	56.2	76	40	.....	.....	.....	.....	.....	.....	2.65	.45	.....	.....	.....
October	.....	.....	.....	.....	.....	61.4	49.5	55.4	76	42	.....	.....	.....	.....	.....	.....	.23	.14	.....	.....	.....
November	.....	.....	.....	.....	.....	50.6	41.0	45.8	58	34	.....	.....	.....	.....	.....	.....	8.44	1.21	.....	.....	.....
December	.....	.....	.....	.....	.....	47.9	38.6	43.2	58	31	.....	.....	.....	.....	.....	.....	17.54	3.20	.....	.....	.....
Year	.....	.....	.....	.....	.....	57.7	45.1	51.4	91	27	.....	.....	.....	.....	.....	.....	70.75	4.93	.....	.....	.....

ATLANTA, GA.

[λ=33° 45′ N.; φ=84° 23′ W.; gravity corr., —0.03.]

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.
January	28.88	29.13	28.39	36.7	42.4	47.7	33.0	40.4	66	5	32	34	83	74	.196	.210	5.47	1.30	6.5	4.8	6.1
February	28.95	29.25	28.48	29.1	37.0	42.0	26.8	34.4	71	0	22	22	75	57	.130	.129	2.01	.63	4.8	3.8	4.7
March	28.90	29.25	28.45	44.9	54.0	60.5	42.4	51.4	83	23	37	39	74	61	.236	.256	7.55	1.85	5.7	4.4	5.0
April	28.84	29.29	28.43	54.4	63.2	69.2	51.5	60.4	81	35	46	48	76	61	.330	.347	5.20	1.84	5.7	3.7	5.2
May	28.90	29.10	28.66	63.2	68.7	75.5	58.5	67.0	90	43	56	56	78	66	.463	.459	3.99	1.42	4.5	5.2	4.7
June	28.91	29.15	28.74	72.5	78.6	86.1	67.5	76.8	98	59	64	64	76	63	.605	.599	4.87	2.62	3.6	6.3	4.4
July	28.89	29.08	28.58	72.4	77.6	85.4	68.7	77.0	92	63	67	68	83	74	.660	.698	2.75	.69	5.3	5.9	5.5
August	28.86	29.05	28.71	72.8	76.3	85.4	68.8	77.1	92	60	68	68	86	78	.697	.696	8.55	2.52	4.8	6.1	5.3
September	28.92	29.14	28.79	71.4	77.3	85.1	67.9	76.5	92	45	65	64	81	64	.634	.605	.21	.11	2.9	1.5	2.6
October	28.92	29.16	28.69	52.5	61.9	69.6	49.7	59.6	82	38	44	47	74	61	.292	.332	1.30	.64	3.1	2.4	2.6
November	28.98	29.30	28.61	46.6	54.2	60.6	44.1	52.4	77	26	44	47	90	78	.299	.341	1.04	.67	4.8	3.6	4.2
December	28.94	29.34	28.58	38.8	45.0	51.6	35.5	43.6	67	16	35	38	87	77	.222	.242	2.98	.90	5.6	3.5	4.5
Year	28.91	29.34	28.39	54.6	61.4	68.2	51.2	59.7	98	0	48	50	80	68	.397	.410	45.92	2.62	4.8	4.3	4.6

AUGUSTA, GA.

[λ=33° 28′ N.; φ=81° 54′ W.; gravity corr., —0.03.]

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.
January	29.91	30.18	29.40	40.2	47.8	53.8	37.0	45.4	73	11	34	36	79	65	.206	.231	6.35	1.89	5.7	5.3	6.3
February	29.96	30.32	29.41	32.7	41.1	47.1	29.2	38.2	75	8	27	27	80	61	.153	.152	4.02	1.11	5.2	3.9	4.4
March	29.90	30.29	29.39	49.4	58.5	64.7	44.8	54.8	84	31	42	42	75	57	.284	.283	8.06	2.56	5.4	5.1	5.6
April	29.83	30.29	29.35	57.1	64.5	72.3	51.8	62.0	84	36	49	47	75	56	.358	.344	5.18	2.71	5.6	4.2	4.8
May	29.89	30.13	29.58	64.8	71.2	78.8	59.3	69.0	94	44	58	57	80	64	.502	.488	3.34	1.27	5.5	5.1	4.5
June	29.88	30.12	29.70	74.1	80.2	90.0	67.4	78.7	100	58	66	63	76	59	.641	.596	3.98	2.67	3.6	5.8	3.2
July	29.85	30.05	29.58	76.0	80.2	89.6	70.8	80.2	95	65	70	69	82	70	.732	.707	4.31	1.45	4.2	6.4	4.5
August	29.83	30.02	29.70	75.8	79.2	89.4	71.6	80.5	95	67	70	71	84	77	.748	.753	8.45	2.46	4.8	7.2	4.9
September	29.89	30.13	29.67	71.8	78.6	87.8	67.8	77.8	95	49	66	66	83	67	.659	.660	1.98	1.08	3.1	2.4	3.0
October	29.90	30.22	29.62	52.6	63.2	73.9	49.1	61.5	88	37	44	45	74	53	.300	.311	.67	.36	3.9	2.4	2.8
November	29.99	30.36	29.56	47.2	55.9	64.8	44.1	54.4	82	31	44	45	88	68	.308	.325	2.01	.73	5.4	3.7	4.5
December	29.97	30.43	29.62	38.4	48.2	58.2	36.4	47.3	73	20	35	36	86	64	.215	.230	3.75	1.22	4.2	3.7	3.9
Year	29.90	30.43	29.35	56.7	64.0	72.5	52.4	62.5	100	8	50	50	80	63	.426	.423	52.10	2.71	4.7	4.6	4.4

BAKER CITY, OREG.

[λ=44° 50′ N.; φ=117° 50′ W.; gravity corr., 0.00.]

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.
January	26.34	26.70	25.73	21.8	27.6	33.2	17.9	25.6	47	— 2	17	20	82	71	.101	.110	2.99	1.08	6.1	6.2	6.2
February	26.57	26.86	26.22	22.9	32.9	38.1	20.0	29.0	53	0	18	24	80	67	.101	.127	.98	.28	4.0	5.9	5.0
March	26.39	26.73	25.94	30.3	44.1	47.7	27.9	37.8	65	5	24	28	76	54	.131	.152	1.05	.21	4.2	4.9	4.5
April	26.46	26.90	26.06	36.2	57.2	60.6	34.8	47.7	81	21	24	28	62	36	.133	.154	.95	.76	5.1	5.0	5.0
May	26.40	26.85	25.95	41.1	59.2	63.4	39.4	51.4	80	28	32	37	71	48	.184	.227	1.25	.39	5.6	6.4	5.6
June	26.51	26.78	26.31	45.3	68.2	71.7	43.4	57.6	88	28	34	42	66	40	.201	.269	.10	.10	4.0	3.4	3.8
July	26.46	26.67	26.25	51.0	75.7	79.3	49.4	64.4	94	36	36	38	58	27	.216	.228	.13	.13	2.2	2.2	2.2
August	26.45	26.66	26.24	51.4	77.6	81.7	49.3	65.5	94	39	35	38	55	26	.208	.235	.39	.23	1.9	1.9	2.3
September	26.44	26.71	26.10	41.7	60.2	64.5	40.0	52.2	81	29	34	38	76	46	.204	.232	2.31	1.07	5.3	5.3	5.9
October	26.55	26.71	26.29	37.1	58.8	66.7	34.6	50.6	78	22	28	33	68	38	.152	.190	T.	T.	1.4	2.3	1.5
November	26.52	27.01	26.14	27.8	37.3	43.4	25.0	34.2	56	9	20	25	71	62	.110	.137	.33	.21	2.9	4.9	5.2
December	26.51	26.85	25.78	24.8	27.9	33.9	20.2	27.0	46	— 3	17	21	72	75	.098	.115	1.52	.47	7.4	6.9	7.2
Year	26.47	27.01	25.73	36.0	52.2	57.0	33.5	45.2	94	— 3	27	31	70	49	.153	.181	12.00	1.08	4.2	4.6	4.5

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

ASTORIA, OREG.

[H = —ft.; h_t = 39 ft.; h_r = 56 ft.; h_a = 60 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	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. Thunderstorm.	Aurora.
	Miles.		*Mi.*																								
January	.....	E.	....	.....	....	0	4	14	1	1	4	6	1	0	2	6	23	24	17	3	0	0	0	0	5	0	0
February	.....	SW.	....	.....	....	0	4	7	3	6	8	4	2	0	3	6	19	20	14	1	0	0	0	0	0	0	0
March	.....	SW.	....	.....	....	1	2	3	5	2	10	4	4	0	8	7	16	20	15	0	3	0	0	0	1	0	0
April	.....	SW.	....	.....	....	0	0	0	0	7	10	6	7	0	7	10	13	16	12	0	1	0	0	0	0	0	0
May	.....	W.	....	.....	....	0	0	0	2	1	9	12	7	0	8	8	15	20	19	0	0	0	0	0	0	0	0
June	.....	W.	....	.....	....	1	0	0	0	0	2	18	9	0	14	9	7	7	5	0	0	2	0	0	0	0	0
July	.....	W.	....	.....	....	2	0	0	0	0	5	14	10	0	12	10	9	7	4	0	0	0	0	2	0	0	0
August	.....	NW.	....	.....	....	0	0	1	0	1	7	9	13	0	25	5	1	1	1	0	0	0	0	0	0	0	0
September	.....	SW.	....	.....	....	2	1	1	0	3	14	4	5	0	11	7	12	18	16	0	0	0	0	0	0	0	0
October	.....	W.	....	.....	....	0	2	4	1	4	7	11	2	0	17	4	10	5	3	0	0	2	0	0	0	0	0
November	.....	NE.	....	.....	....	2	13	3	0	4	5	1	2	0	7	8	15	16	14	0	0	4	0	0	0	1	0
December	.....	E.	....	.....	....	0	0	13	1	6	5	2	4	0	2	3	26	30	29	2	0	0	0	0	1	0	0
Year	.....	W.	....	.....	....	8	26	46	13	29	86	91	66	0	116	83	166	184	149	6	4	8	0	2	7	1	0

ATLANTA, GA.

[H = 1,131 ft.; h_t = 92 ft.; h_r = 85 ft.; h_a = 126 ft.]

Month.	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°.	Thunderstorm.	Aurora.
January	10.8	NW.	39	E.	0	1	2	15	4	3	8	9	19	1	10	6	15	14	11	0	0	3	1	0	11	0	0
February	11.5	NW.	48	NW.	1	3	4	9	1	3	5	8	23	0	13	4	11	8	6	5	0	1	8	0	17	0	0
March	10.9	NW.	46	W.	1	2	5	11	4	5	11	6	17	1	13	7	11	14	12	0	0	0	0	0	5	3	0
April	10.2	NW.	36	W.	0	0	12	4	8	3	10	7	16	0	13	4	13	8	6	0	2	0	0	0	0	5	0
May	8.4	E.	35	NW.	0	4	8	13	13	4	6	2	12	0	15	8	8	13	10	0	0	1	0	0	0	5	0
June	7.4	NW.	40	NW.	1	10	12	8	2	3	9	6	10	0	14	11	5	9	9	0	0	0	0	4	0	14	0
July	7.8	NW.	36	SW.	0	0	4	7	4	7	10	13	17	0	11	11	9	15	11	0	0	0	0	2	0	7	0
August	7.0	NW.	30	W.	0	2	8	9	10	4	7	11	10	1	8	16	7	19	17	0	0	0	0	2	0	17	0
September	7.0	NW.	32	NW.	0	4	9	11	12	5	2	3	14	0	20	8	2	3	2	0	0	0	0	5	0	0	0
October	9.9	NW.	30	NW.	0	2	16	7	1	0	3	8	25	0	23	2	6	5	5	0	0	0	0	0	0	0	0
November	10.3	NW.	36	NW.	0	0	13	10	5	4	6	2	20	0	17	7	6	7	4	0	0	2	0	0	2	1	0
December	11.6	NW.	46	W.	2	2	4	9	6	3	14	8	16	0	16	4	11	10	6	1	0	1	0	0	11	0	0
Year	9.4	NW.	48	NW.	5	30	97	113	70	44	91	83	199	3	173	88	104	125	99	6	2	8	9	13	46	52	0

AUGUSTA, GA.

[H = 180 ft.; h_t = 89 ft.; h_r = 54 ft.; h_a = 103 ft.]

Month.	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°.	Thunderstorm.	Aurora.
January	5.2	SW.	26	NW.	0	5	7	7	5	3	10	11	6	8	7	9	15	12	12	0	0	4	1	0	7	0	0
February	5.8	W.	31	NW.	0	6	9	3	2	1	1	20	7	7	15	3	10	9	7	3	0	1	4	0	17	0	0
March	5.2	W.	22	S.	0	6	4	5	8	6	10	13	5	5	10	6	15	15	11	0	0	0	0	0	2	4	0
April	6.0	SE.	43	NW.	1	6	6	2	14	2	8	8	8	6	12	10	8	9	8	0	0	0	0	0	0	4	0
May	5.4	SE.	27	W.	0	4	11	6	17	8	2	10	4	0	14	10	7	13	10	0	0	1	0	1	0	7	0
June	5.2	NE.	30	SE.	0	7	14	5	7	12	4	8	2	1	15	13	2	12	10	0	0	0	0	15	0	11	0
July	4.8	SW.	42	W.	1	5	7	1	11	9	11	9	6	3	13	12	6	11	10	0	0	0	0	17	0	9	0
August	4.4	SE.	26	W.	0	5	8	5	14	7	4	8	6	5	11	13	7	14	13	0	0	0	0	15	0	10	0
September	4.2	SE.	33	NE.	0	3	14	7	13	11	0	1	4	7	20	6	4	5	4	0	0	2	0	14	0	2	0
October	5.4	NW.	26	W.	0	8	12	3	0	2	7	5	17	8	22	4	5	3	3	0	0	0	0	0	0	0	0
November	5.6	N.	26	W.	0	13	7	0	3	5	5	7	12	8	15	6	9	7	5	0	0	3	0	0	2	1	0
December	5.7	W.	38	W.	0	11	5	5	5	4	6	10	8	8	16	8	7	10	7	0	0	3	0	0	11	0	0
Year	5.2	W.	43	NW.	2	79	104	49	99	70	68	110	85	66	170	100	95	120	100	3	0	14	5	62	39	48	0

BAKER CITY, OREG.

[H = 3,430 ft.; h_t = 49 ft.; h_r = 38 ft.; h_a = 53 ft.]

Month.	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°.	Thunderstorm.	Aurora.
January	6.1	SE.	30	SE.	0	2	2	0	31	7	4	0	7	9	9	6	16	17	12	14	0	0	14	0	28	0	0
February	5.1	SE.	20	NW.	0	0	0	0	19	15	2	0	9	11	11	7	10	7	5	3	0	0	9	0	25	0	0
March	6.5	SE.	28	SE.	0	2	0	0	26	8	11	0	12	3	13	8	10	10	9	7	0	0	1	0	24	0	0
April	6.9	SE.	38	SE.	0	4	2	0	27	2	8	0	14	3	9	13	8	5	4	2	0	0	0	0	11	0	0
May	6.1	NW.	28	SW.	0	4	5	0	13	14	4	0	18	4	10	7	14	10	7	0	0	0	0	0	4	2	0
June	5.7	NW.	22	NW.	0	8	0	0	10	13	2	0	23	4	13	12	5	2	1	0	0	0	0	0	3	1	0
July	5.5	NW.	22	SE.	0	1	1	0	13	13	2	0	28	4	21	6	4	1	1	0	0	0	0	1	0	0	0
August	5.3	NW.	30	SE.	0	4	2	0	9	17	4	0	23	3	21	7	3	3	2	0	0	0	0	3	0	2	0
September	4.7	S.	24	NW.	0	7	0	1	11	15	0	3	15	8	8	10	12	9	7	1	0	0	0	0	5	1	0
October	5.8	S.	19	N.	0	4	0	0	6	24	1	0	18	9	25	6	0	0	0	0	0	0	0	0	12	0	0
November	5.6	S.	33	NW.	0	3	0	0	10	18	4	5	14	6	9	12	9	4	3	2	0	3	0	0	26	0	0
December	6.0	SE.	36	SW.	0	1	1	0	29	16	2	1	10	2	4	10	17	16	9	15	0	0	10	0	20	0	0
Year	5.8	SE.	38	SE.	0	40	13	1	204	162	44	9	191	66	153	104	108	84	60	44	0	3	34	4	168	6	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

BALTIMORE, MD.

[λ = 39° 18′ N.; φ = 76° 37′ W.; gravity corr., —0.01.]

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	29.91	30.34	29.17	28.5	32.1	37.3	25.3	31.3	60	9	22	24	76	71	.126	.137	4.67	1.35	6.1	4.9	5.6
February	29.88	30.40	29.22	21.7	28.4	33.2	19.6	26.4	62	1	13	16	68	58	.084	.095	.83	.37	4.9	3.0	4.0
March	29.87	30.38	29.35	36.2	41.9	48.2	32.9	40.6	72	21	25	28	64	58	.140	.155	2.94	.80	4.8	3.6	4.7
April	29.87	30.48	29.22	49.5	54.6	60.7	44.9	52.8	86	34	38	40	66	62	.237	.268	7.42	2.37	4.7	5.7	5.2
May	29.92	30.17	29.48	59.6	64.1	70.8	54.0	62.4	95	40	50	51	73	63	.387	.401	3.04	.74	5.3	4.8	5.2
June	29.92	30.32	29.64	72.2	75.4	83.2	65.2	74.2	97	53	62	63	71	67	.562	.587	2.83	1.08	4.3	3.9	4.2
July	29.84	30.10	29.56	70.4	74.2	81.7	64.5	73.1	95	55	60	59	70	62	.530	.520	3.40	1.76	4.4	4.5	4.3
August	29.82	30.13	29.61	73.6	78.2	86.8	67.4	77.1	96	57	62	64	69	62	.579	.598	2.43	.78	2.3	4.6	3.6
September	29.92	30.23	29.60	68.6	72.6	81.2	63.4	72.3	96	46	58	61	72	67	.520	.561	6.01	4.76	2.6	2.0	2.7
October	29.92	30.40	29.52	48.4	55.2	63.0	43.8	53.4	74	34	35	37	61	51	.211	.233	2.20	1.14	2.5	1.7	2.4
November	30.04	30.51	29.35	43.3	47.7	54.2	40.0	47.1	77	26	37	38	78	70	.236	.249	1.86	1.08	5.2	3.6	5.1
December	29.99	30.60	29.31	35.1	39.8	45.4	32.9	39.2	61	14	27	31	71	70	.161	.186	2.84	1.23	4.6	4.9	6.0
Year	29.91	30.60	29.17	50.6	55.4	62.1	46.2	54.2	97	1	41	43	70	63	.314	.332	40.47	4.76	4.3	3.9	4.4

BISMARCK, N. DAK.

[λ = 46° 47′ N.; φ = 100° 38′ W.; gravity corr., 0.00.]

Month.	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.
January	28.19	28.81	27.65	—6.3	1.8	8.3	—10.7	—1.2	38	—32	—10	—5	81	70	.028	.037	0.89	0.26	4.5	4.5	6.0
February	28.33	29.05	27.57	4.4	12.7	18.8	0.2	9.5	64	—39	0	4	80	66	.062	.075	.35	.26	5.7	6.5	5.3
March	28.19	28.67	27.54	16.3	32.7	41.4	13.5	27.4	72	—22	11	21	79	61	.081	.128	.24	.13	4.0	3.9	4.2
April	28.20	28.58	27.56	38.8	58.3	65.1	35.4	50.2	84	21	32	40	76	53	.186	.254	2.53	1.06	4.9	5.2	4.9
May	28.14	28.66	27.42	46.2	60.6	67.1	42.2	54.6	84	30	39	40	76	50	.244	.263	3.80	1.41	6.0	5.6	5.5
June	28.23	28.47	27.95	54.0	66.0	71.0	47.8	59.4	88	39	48	50	80	59	.338	.372	4.01	1.87	5.8	5.2	5.6
July	28.20	28.50	27.74	59.6	74.5	80.6	54.5	67.6	94	42	53	54	79	51	.408	.434	2.08	.67	4.2	4.0	4.4
August	28.17	28.60	27.82	55.5	75.5	83.5	51.3	67.4	98	32	46	47	71	40	.320	.335	.40	.15	3.7	2.0	3.1
September	28.12	28.74	27.35	47.3	66.0	74.3	44.1	59.2	96	24	35	36	64	35	.216	.220	.67	.62	5.3	3.4	4.2
October	28.27	28.67	27.79	30.3	46.3	57.8	28.3	43.0	84	— 2	20	24	64	41	.121	.132	.08	.08	3.5	4.0	4.2
November	28.22	28.70	27.86	17.3	22.8	31.7	12.6	22.2	64	—11	10	12	72	63	.076	.080	1.60	.62	7.6	6.0	6.9
December	28.09	28.74	27.39	13.9	18.8	27.3	8.7	18.0	48	—18	7	6	70	57	.064	.060	.27	.12	5.9	4.5	5.2
Year	28.20	29.05	27.35	31.4	44.7	52.2	27.3	39.8	98	—39	24	27	74	54	.179	.199	16.92	1.87	5.1	4.6	5.0

BLOCK ISLAND, R. I.

[λ = 41° 10′ N.; φ = 71° 36′ W.; gravity corr., —0.01.]

Month.	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.
January	30.02	30.44	29.39	31.4	31.9	36.9	26.0	31.4	53	10	25	25	76	74	.146	.141	4.12	0.98	5.5	3.3	5.8
February	29.87	30.48	28.81	23.6	26.5	31.1	19.0	25.0	45	— 4	15	19	66	70	.090	.107	1.13	.40	3.7	3.1	4.3
March	29.95	30.50	29.23	33.6	35.9	39.9	29.7	34.8	48	18	27	30	76	78	.152	.168	4.76	1.25	5.1	3.5	5.3
April	30.03	30.72	29.29	42.2	43.4	47.0	37.9	42.4	59	29	37	39	82	85	.223	.243	6.15	2.68	5.2	4.3	5.9
May	30.04	30.41	29.66	52.3	52.3	58.4	46.8	52.6	82	39	48	49	86	89	.343	.356	4.08	1.10	4.2	3.2	5.5
June	30.06	30.45	29.78	62.0	62.3	66.9	57.7	62.3	82	49	59	60	90	92	.502	.520	1.80	.82	3.7	2.9	5.9
July	29.94	30.21	29.72	66.2	66.4	72.3	61.2	66.8	79	52	61	62	85	87	.551	.564	8.57	3.87	4.6	4.2	5.6
August	29.94	30.26	29.68	69.0	68.9	74.3	64.4	69.4	80	53	64	64	85	86	.612	.611	4.27	1.58	4.2	2.5	4.6
September	30.03	30.34	29.66	64.0	65.2	69.9	60.2	65.0	85	47	59	60	84	84	.515	.530	1.46	.46	4.0	2.4	4.2
October	30.01	30.57	29.40	51.0	51.8	56.2	45.3	50.8	65	36	42	42	73	70	.288	.286	4.62	3.46	4.2	2.8	4.9
November	30.15	30.62	29.13	46.5	47.5	51.5	42.2	46.8	65	24	42	43	84	84	.279	.290	5.81	1.31	5.9	4.6	7.1
December	30.10	30.76	29.46	36.9	38.9	42.5	32.3	37.4	59	12	30	33	77	78	.180	.202	2.44	.71	5.8	4.5	5.7
Year	30.01	30.76	28.81	48.2	49.2	53.9	43.6	48.7	85	— 4	42	44	80	81	.323	.335	49.21	3.87	4.7	3.4	5.4

BOSTON, MASS.

[λ = 42° 21′ N.; φ = 71° 4′ W.; gravity corr., —0.01.]

Month.	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.
January	29.89	30.42	29.05	26.2	29.4	35.7	21.8	28.8	54	4	19	21	73	71	.115	.123	3.79	1.06	6.1	5.5	6.0
February	29.72	30.34	28.55	20.3	25.9	32.5	16.6	24.6	46	— 6	11	15	64	61	.076	.091	1.11	.83	4.0	3.9	4.9
March	29.81	30.36	29.05	32.0	34.8	41.1	28.0	34.6	58	14	21	24	63	65	.121	.134	2.72	.80	5.4	5.2	5.7
April	29.91	30.58	29.14	44.5	46.1	53.8	38.1	46.0	80	27	33	35	66	68	.199	.218	3.65	1.69	6.2	5.1	6.4
May	29.91	30.35	29.48	57.8	60.1	69.9	50.5	60.2	90	36	45	48	65	66	.322	.349	2.71	1.12	5.4	5.1	5.4
June	29.95	30.32	29.61	65.7	67.1	73.5	60.0	66.8	96	50	56	58	74	76	.461	.504	1.73	.95	5.3	5.9	5.3
July	29.82	30.09	29.61	68.3	68.4	76.9	61.7	69.3	85	54	57	59	69	74	.479	.513	2.98	.91	5.2	5.9	6.2
August	29.81	30.13	29.50	69.0	70.8	79.3	62.7	71.0	89	50	58	60	68	69	.484	.522	3.24	1.24	5.0	4.2	4.7
September	29.91	30.22	29.49	63.1	65.2	73.8	57.6	65.7	96	42	53	56	70	73	.417	.470	1.53	.42	4.8	2.6	4.3
October	29.89	30.48	29.25	47.3	49.6	57.8	41.4	49.6	70	32	39	38	73	66	.252	.245	6.19	4.92	4.2	3.3	4.6
November	30.03	30.51	28.96	42.4	45.4	52.5	38.3	45.4	73	21	38	40	84	83	.246	.268	3.07	2.67	7.8	5.1	6.6
December	29.98	30.67	29.12	33.0	35.9	42.7	28.5	35.6	64	8	26	28	76	74	.163	.176	2.45	.76	6.5	5.2	6.3
Year	29.89	30.67	28.55	47.5	49.9	57.5	42.1	49.8	96	— 6	38	40	70	70	.278	.301	40.17	4.92	5.5	4.3	5.5

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

BALTIMORE, MD.

[H = 142 ft.; h_t = 120 ft.; h_r = 116 ft.; h_a = 136 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	8.1	W.	36	W.	0	6	4	7	4	4	7	15	12	3	8	15	8	16	11	6	1	1	10	0	26	0	0
February	10.6	NW.	42	W.	2	7	3	1	1	1	8	15	19	1	11	15	2	5	5	4	0	0	11	0	26	0	0
March	9.5	NW.	37	NW.	0	11	8	7	3	6	5	6	15	1	11	15	5	13	11	2	0	1	1	0	13	0	0
April	8.6	SE.	26	NW.	0	6	5	11	12	6	3	9	8	0	10	12	8	11	11	0	0	0	0	0	0	0	0
May	7.3	SE.	26	NW.	0	2	7	6	14	4	8	5	10	6	8	19	4	13	9	0	0	0	0	2	0	0	0
June	6.3	E.	36	NW.	0	7	13	8	7	8	8	4	4	1	13	11	6	10	9	0	0	0	0	5	0	9	0
July	6.1	NW.	35	NW.	0	9	4	2	2	4	16	8	14	3	14	9	8	9	7	0	1	0	0	4	0	5	0
August	6.6	SW.	36	NW.	0	4	1	3	7	10	15	10	6	6	12	17	2	6	5	0	2	0	0	9	0	7	0
September	6.7	N.	32	N.	0	12	3	2	3	10	10	5	6	9	21	8	1	5	4	0	0	2	0	6	0	2	0
October	7.6	N.	35	NW.	0	13	3	3	0	3	10	11	18	1	23	6	2	4	4	0	0	3	0	0	0	0	0
November	7.5	N.	28	NW.	0	19	7	7	6	3	4	5	8	1	12	8	10	10	9	0	0	5	0	0	5	0	0
December	8.1	N.	42	S.	1	16	8	4	3	11	7	4	4	5	11	6	14	12	9	2	0	3	3	0	14	0	0
Year	7.8	N.	42	S. W.	3	112	66	61	62	70	101	97	124	37	154	141	70	114	94	14	4	15	25	26	84	23	0

BISMARCK, N. DAK.

[H = 1,681 ft.; h_t = 16 ft.; h_r = 3 ft.; h_a = 29 ft.]

Month.	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.
January	8.9	NW.	31	NW.	0	11	5	5	6	3	2	3	23	4	9	10	12	12	7	12	0	0	30	0	31	0	1
February	9.6	NW.	52	NW.	1	12	0	3	6	1	3	3	23	5	10	11	7	9	2	7	0	0	19	0	26	0	1
March	11.4	NW.	42	NW.	2	11	9	7	5	1	1	4	24	0	17	10	4	3	2	2	0	0	12	0	29	0	1
April	11.2	NW.	39	S.	0	8	6	12	5	7	5	0	15	2	16	8	6	9	9	1	0	1	0	0	11	1	2
May	10.1	N.	42	S.	1	18	6	7	1	9	1	4	13	3	9	14	8	10	8	1	0	0	0	0	3	2	0
June	8.8	NW.	46	S.	1	11	0	3	0	13	2	4	21	6	10	10	10	16	10	0	1	0	0	0	0	5	1
July	9.9	S.	52	S.	2	12	4	4	5	16	3	5	9	4	15	11	5	12	8	0	1	0	0	3	0	8	2
August	9.0	NW.	34	NW.	0	13	4	8	4	6	2	4	15	6	24	5	2	5	3	0	0	0	0	6	0	5	0
September	11.3	NW.	40	NW.	1	4	3	11	3	3	7	2	24	3	15	13	2	4	3	0	0	0	0	3	5	2	3
October	10.3	NW.	47	NW.	4	6	1	6	5	4	8	3	29	0	14	11	6	2	1	0	0	0	1	0	15	0	2
November	7.7	NW.	30	NW.	0	8	5	4	6	3	4	4	24	2	3	12	15	7	3	7	0	0	15	0	29	0	2
December	10.2	NW.	38	NW.	0	5	2	2	5	2	6	8	31	1	9	13	9	5	2	5	0	0	17	0	31	0	0
Year	9.9	NW.	52	S. NW.	12	119	45	72	51	68	44	44	251	36	151	128	86	94	58	35	2	1	94	12	180	23	15

BLOCK ISLAND, R. I.

[H = 27 ft.; h_t = 39 ft.; h_r = 3 ft.; h_a = 48 ft.]

Month.	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.
January	17.7	NW.	56	SE.	6	2	9	3	4	1	3	17	22	1	7	16	8	16	14	7	0	4	10	0	23	0	0
February	19.2	NW.	66	W.	7	0	6	2	0	0	5	12	31	0	12	12	4	5	3	5	0	0	12	0	28	0	0
March	16.1	NW.	47	NW.	2	3	12	3	4	0	13	7	20	0	11	12	8	15	14	6	0	2	1	0	21	0	0
April	14.0	NE.	46	NE.	1	2	11	6	8	5	10	9	9	0	11	5	14	15	15	0	0	3	0	0	2	0	0
May	13.7	SW.	36	NE.	0	0	6	7	5	2	22	7	13	0	8	14	9	11	11	0	0	11	0	0	0	1	0
June	11.2	SW.	38	NE.	0	1	11	9	11	3	16	2	6	1	5	17	8	9	8	0	0	14	0	0	0	2	0
July	10.2	SW.	43	NE.	1	2	7	2	4	2	27	6	11	1	4	21	6	11	10	0	0	6	0	0	0	3	0
August	11.4	SW.	32	SW.	0	1	3	2	6	3	24	10	12	1	8	22	1	5	4	0	0	3	0	0	0	2	0
September	12.8	SW.	38	SW.	0	3	12	3	7	2	18	9	6	0	13	14	3	7	6	0	0	5	0	0	0	1	0
October	16.0	NW.	48	SE.	3	3	12	2	2	0	16	8	19	0	10	17	4	8	7	0	0	0	0	0	0	0	1
November	16.6	SW.	54	NE.	4	3	14	3	2	3	17	6	12	0	3	13	14	14	13	0	0	4	0	0	2	0	0
December	20.5	NE.	68	NE.	8	6	13	4	6	1	10	11	11	0	7	16	8	7	6	3	0	0	5	0	14	0	0
Year	15.0	SW.	68	NE.	32	26	116	46	59	22	181	104	172	4	99	179	87	123	111	21	0	52	28	0	90	9	1

BOSTON, MASS.

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

Month.	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.
January	11.1	W.	40	E.	1	5	3	2	2	2	12	27	8	1	11	8	12	13	12	7	0	1	11	0	26	0	1
February	13.5	W.	47	SW.	3	4	1	0	0	4	7	29	11	0	10	7	11	5	3	5	0	1	11	0	28	0	3
March	12.6	NW.	37	NW.	0	6	5	3	4	2	9	15	18	0	11	7	13	12	10	6	0	1	3	0	22	0	0
April	10.8	E.	43	SE.	2	8	8	9	3	9	9	7	7	0	7	7	16	12	10	2	0	2	0	0	3	1	0
May	10.7	SW.	31	NE.	0	3	9	2	3	10	14	14	7	0	9	10	12	8	7	0	0	0	0	1	0	1	0
June	8.8	E.	30	SW.	0	1	11	13	4	9	12	7	3	0	13	6	11	9	8	0	0	1	0	1	0	2	0
July	9.4	NW.	30	NE.	0	12	3	3	2	5	17	8	12	0	8	11	12	12	9	0	0	0	0	0	0	4	0
August	9.3	W.	29	SW.	0	5	3	2	10	7	14	14	7	0	11	17	3	7	5	0	0	0	0	0	0	3	0
September	9.8	W.	33	SW.	0	10	2	4	2	4	10	16	12	0	13	10	7	8	8	0	0	0	0	3	0	5	0
October	12.0	NW.	46	NE.	2	6	6	2	1	7	11	12	17	0	12	11	8	8	6	0	0	0	0	0	0	0	0
November	11.0	W.	41	SW.	2	10	2	6	2	3	11	16	10	0	8	5	17	15	14	1	0	2	0	0	4	1	0
December	13.2	N.	50	S.	2	16	0	2	3	3	15	9	13	1	9	5	17	9	6	3	0	1	9	0	18	0	0
Year	11.0	W.	50	S.	12	86	53	48	36	65	141	174	125	2	122	104	139	118	98	24	0	9	34	5	101	17	4

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

BUFFALO, N. Y.

[λ=42° 53′ N.; φ=78° 53′ W.; gravity corr., —0.01.]

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	29.21	29.76	28.43	22.6	23.9	28.0	17.8	22.9	49	4	18	19	82	79	.105	.105	4.48	1.60	9.0	7.0	8.0
February	29.25	29.68	28.55	14.6	17.6	22.4	10.6	16.5	41	—13	10	11	79	75	.075	.079	1.46	.41	8.0	5.5	7.0
March	29.27	29.68	28.68	24.1	28.0	33.9	19.9	26.9	54	2	18	20	76	71	.102	.111	1.58	.40	5.5	5.0	6.0
April	29.28	29.85	28.67	43.1	45.2	53.1	36.6	44.8	75	26	34	34	70	68	.202	.207	1.97	.45	5.5	4.2	5.8
May	29.30	29.56	28.84	55.1	57.2	64.5	48.0	56.2	88	30	44	46	67	67	.310	.326	2.19	.59	3.8	4.4	4.6
June	29.33	29.66	29.03	67.6	70.4	77.6	60.0	68.8	93	47	58	60	71	71	.483	.522	1.52	.52	3.7	4.8	5.1
July	29.24	29.58	28.95	67.1	69.6	74.9	61.1	68.0	90	52	58	57	72	65	.482	.479	1.85	.56	4.7	4.2	6.8
August	29.21	29.49	28.97	67.2	70.0	76.4	61.8	69.1	87	48	57	58	69	67	.466	.491	2.86	.75	5.4	5.3	5.5
September	29.29	29.62	28.91	63.7	65.4	72.1	57.4	64.8	85	38	54	52	71	64	.435	.418	2.59	.87	5.3	4.0	5.4
October	29.27	29.74	28.77	44.5	47.0	52.5	38.8	45.6	67	28	33	34	65	61	.195	.203	1.92	.58	5.6	4.7	6.5
November	29.37	29.80	28.62	38.6	41.0	45.7	34.7	40.2	68	16	30	31	71	68	.176	.180	4.34	1.23	7.2	6.0	7.4
December	29.29	29.78	28.61	33.1	34.5	39.0	27.5	33.2	63	7	26	28	75	76	.148	.160	5.26	1.30	8.0	7.8	8.3
Year	29.28	29.85	28.43	45.1	47.5	53.3	39.5	46.4	93	—13	37	38	72	69	.265	.273	32.02	1.60	6.0	5.2	6.4

CAIRO, ILL.

[λ=37° 00 N.; φ=89° 10′ W.; gravity corr., —0.02.]

January	29.68	30.15	28.82	27.1	34.6	38.4	24.4	31.4	68	— 2	23	29	84	79	.140	.173	3.77	0.81	7.5	4.9	6.2
February	29.83	30.14	29.22	22.2	33.2	36.8	20.1	28.4	74	— 9	15	22	74	64	.096	.130	.39	.20	4.5	4.5	4.6
March	29.66	30.05	29.31	41.6	49.8	55.0	33.8	46.9	84	23	34	33	74	56	.210	.205	2.76	.71	6.3	5.8	7.3
April	29.56	29.90	29.20	55.3	64.3	69.6	51.0	60.3	88	37	48	45	78	54	.347	.317	2.75	.83	4.5	6.4	5.3
May	29.64	29.90	29.41	61.7	69.8	75.1	57.7	66.4	91	40	55	52	80	56	.458	.420	1.48	.68	4.6	6.1	6.2
June	29.65	29.85	29.45	72.3	80.2	85.9	68.5	77.2	95	62	65	65	79	62	.633	.624	4.86	2.09	4.4	6.6	5.3
July	29.63	29.84	29.24	72.3	77.8	83.0	68.9	76.0	93	60	68	69	84	75	.680	.711	5.97	1.22	6.3	6.5	6.3
August	29.59	29.78	29.46	72.5	80.6	86.9	69.3	78.1	93	60	67	69	83	68	.665	.705	.71	.48	3.5	4.0	4.3
September	29.67	29.94	29.40	68.3	76.6	84.0	65.0	74.5	94	43	62	66	81	69	.584	.653	1.86	1.16	2.0	2.5	4.1
October	29.74	30.03	29.38	45.8	57.6	65.6	43.6	54.6	79	30	37	42	72	56	.232	.277	.50	.36	2.6	2.1	3.5
November	29.75	30.06	28.96	42.4	48.2	54.3	38.9	46.6	71	24	35	39	75	71	.220	.251	5.27	1.55	6.1	6.2	6.0
December	29.67	30.02	29.14	36.6	41.5	46.5	33.6	40.0	65	16	29	34	72	74	.173	.215	3.25	.88	5.6	5.0	6.1
Year	29.67	30.15	28.82	51.5	59.5	65.1	48.3	56.7	95	— 9	45	47	78	65	.370	.390	33.57	2.09	4.8	5.0	5.4

FORT CANBY, WASH.

[λ=46° 16′ N.; φ=124° 4′ W.; gravity corr., 0.00.]

January	29.63	30.16	29.00	39.6	41.5	43.6	36.7	40.2	54	31	36	37	88	84	.219	.223	11.52	4.29	6.2	8.1	8.2
February	29.91	30.28	29.21	42.7	45.5	48.2	40.6	44.4	58	35	38	39	86	80	.239	.243	2.82	.59	7.1	7.8	8.3
March	29.76	30.24	29.01	42.6	46.8	51.3	40.1	45.7	61	32	37	40	81	77	.221	.247	5.42	.97	5.6	5.8	6.6
April	29.86	30.38	29.41	44.7	48.6	53.7	42.9	48.3	69	36	41	41	86	77	.255	.262	6.16	1.63	7.5	6.5	6.8
May	29.82	30.36	29.16	49.8	53.8	58.5	47.5	53.0	84	41	45	48	86	82	.302	.333	8.19	1.36	7.2	6.0	6.7
June	29.99	30.34	29.68	52.0	57.0	61.6	50.7	56.2	82	44	50	53	93	85	.361	.398	.71	.38	6.4	5.1	5.9
July	29.91	30.10	29.52	55.9	60.7	65.5	54.3	59.9	90	49	53	56	90	85	.402	.456	.80	.40	6.0	5.1	5.7
August	29.91	30.13	29.59	53.9	58.9	63.9	52.2	58.0	84	48	52	54	93	85	.383	.425	.25	.25	3.7	2.3	4.5
September	29.87	30.23	29.43	52.8	56.3	61.3	51.1	56.2	80	45	50	52	93	87	.368	.393	2.34	.40	5.1	5.6	6.4
October	29.92	30.17	29.72	51.4	55.6	59.5	49.2	54.4	83	43	49	50	93	84	.354	.360	.31	.20	2.9	2.5	5.7
November	29.93	30.45	29.40	44.6	47.6	50.2	41.9	46.0	57	36	42	44	92	87	.274	.287	7.70	1.32	4.5	6.1	7.0
December	29.83	30.44	29.20	43.5	43.7	47.7	39.3	43.5	56	31	40	41	90	91	.258	.261	14.17	2.89	7.7	7.8	8.9
Year	29.86	30.45	29.00	47.8	51.3	55.4	45.5	50.5	90	31	44	46	89	84	.303	.324	60.39	4.29	5.8	5.7	6.7

CAPE HENRY, VA.

[λ=36° 56′ N.; φ=76° 00′ W.; gravity corr., —0.02.]

January	.....	.....	.....	.....	.....	46.5	31.8	39.2	70	17	.....	.....	.....	.....	.....	.....	5.32	1.26	.....	.....	.....
February	.....	.....	.....	.....	.....	37.7	24.2	31.0	67	8	.....	.....	.....	.....	.....	.....	1.93	.71	.....	.....	.....
March	.....	.....	.....	.....	.....	54.9	36.8	45.8	75	28	.....	.....	.....	.....	.....	.....	4.13	2.49	.....	.....	.....
April	.....	.....	.....	.....	.....	62.3	47.1	54.7	83	39	.....	.....	.....	.....	.....	.....	5.59	1.96	.....	.....	.....
May	.....	.....	.....	.....	.....	68.6	54.5	61.6	94	44	.....	.....	.....	.....	.....	.....	5.93	1.80	.....	.....	.....
June	.....	.....	.....	.....	.....	81.1	66.7	73.9	99	55	.....	.....	.....	.....	.....	.....	4.77	2.43	.....	.....	.....
July	.....	.....	.....	.....	.....	82.9	68.5	75.7	93	56	.....	.....	.....	.....	.....	.....	2.97	.89	.....	.....	.....
August	.....	.....	.....	.....	.....	86.2	70.0	78.1	98	61	.....	.....	.....	.....	.....	.....	3.82	1.61	.....	.....	.....
September	.....	.....	.....	.....	.....	82.2	69.0	75.6	96	52	.....	.....	.....	.....	.....	.....	.00	.00	.....	.....	.....
October	.....	.....	.....	.....	.....	65.8	51.2	58.5	79	42	.....	.....	.....	.....	.....	.....	2.13	1.23	.....	.....	.....
November	.....	.....	.....	.....	.....	59.3	45.6	52.6	79	26	.....	.....	.....	.....	.....	.....	4.07	1.26	.....	.....	.....
December	.....	.....	.....	.....	.....	52.8	37.8	45.3	70	28	.....	.....	.....	.....	.....	.....	6.29	1.50	.....	.....	.....
Year	.....	.....	.....	.....	.....	65.0	50.3	57.7	99	8	.....	.....	.....	.....	.....	.....	46.95	2.49	.....	.....	.....

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

BUFFALO, N. Y.

[H = 690 ft.; h_t = 118 ft.; h_r = 108 ft.; h_a = 123 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	16.2	W.	64	W.	6	1	3	7	2	3	20	15	11	0	0	12	19	21	16	17	0	1	21	0	30	0	0
February	15.5	W.	46	NW.	4	1	0	1	1	0	18	25	10	0	3	12	13	14	10	12	0	1	20	0	27	0	0
March	12.5	W.	45	W.	2	5	11	5	2	5	10	13	11	0	9	11	11	14	10	13	0	2	11	0	29	1	0
April	8.6	E.	34	W.	0	2	5	16	6	3	7	8	13	0	10	9	11	11	9	2	0	2	0	0	7	0	0
May	9.2	W.	36	W.	0	2	6	2	1	4	23	17	5	2	14	12	5	9	5	1	0	0	0	0	1	3	0
June	7.4	W.	42	W.	1	3	10	2	7	2	21	13	2	0	12	12	6	7	6	0	0	0	0	2	0	5	0
July	8.7	NW.	35	W.	0	2	8	4	4	1	17	7	19	0	1	25	5	10	8	0	0	1	0	0	0	3	0
August	8.0	W.	41	NW.	2	1	4	1	2	3	19	15	13	4	6	20	5	9	8	0	1	0	0	0	0	4	0
September	9.2	W.	48	W.	4	7	5	6	6	3	16	7	7	3	10	14	6	7	6	0	1	0	0	0	0	4	0
October	15.4	W.	59	W.	7	2	6	3	7	5	15	11	13	0	7	10	14	8	8	2	1	1	0	0	5	1	0
November	11.7	SW.	68	W.	5	2	6	6	8	8	17	5	8	0	2	12	16	14	13	6	0	0	4	0	12	0	0
December	14.1	SW.	78	W.	5	2	3	9	5	10	14	9	10	0	0	12	19	14	11	9	0	5	11	0	21	0	0
Year	11.4	W.	78	W.	36	30	67	62	51	47	197	145	122	9	74	161	130	138	110	62	3	13	67	2	132	21	0

CAIRO, ILL.

[H = 359 ft.; h_t = 87 ft.; h_r = 78 ft.; h_a = 93 ft.]

Month.	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.
January	10.7	N.	52	SW.	2	16	7	1	5	10	9	11	3	0	8	10	13	13	9	5	0	1	9	0	22	2	0
February	9.1	NW.	34	NW.	0	13	5	2	4	5	7	6	14	0	11	13	4	5	3	4	0	0	13	0	22	0	0
March	10.9	S.	38	N.	0	13	5	2	7	20	2	4	9	0	3	10	18	12	10	1	0	0	0	0	10	0	0
April	9.1	SE.	34	SE.	0	11	12	4	14	8	1	1	6	3	13	6	11	13	8	0	1	0	0	0	0	1	0
May	8.5	S.	31	NW.	0	7	5	7	11	16	6	2	7	1	7	14	10	6	6	0	0	0	0	3	0	2	0
June	5.9	S.	30	NW.	0	6	10	4	8	11	3	8	7	3	6	18	6	10	9	0	0	0	0	8	0	7	0
July	6.1	S.	44	NW.	1	9	5	2	6	18	6	4	10	2	5	14	12	16	14	0	0	0	0	6	0	7	0
August	5.5	S.	24	SW.	0	6	11	2	4	17	7	6	6	3	11	19	1	6	3	0	0	0	0	7	0	5	0
September	6.7	N.	32	N.	0	17	1	1	11	15	8	1	5	1	13	16	1	4	3	0	0	0	0	11	0	3	0
October	6.8	N.	29	W.	0	17	7	5	0	13	5	2	12	1	19	6	6	2	2	0	0	2	0	0	2	1	0
November	8.3	S.	37	W.	0	14	2	4	7	15	5	4	6	3	9	8	13	9	6	0	0	1	0	0	8	0	0
December	11.4	S.	36	SW.	0	9	0	1	11	21	7	1	12	0	7	13	11	15	10	4	0	0	5	0	16	1	0
Year	8.2	S.	52	SW.	3	138	70	35	88	169	66	50	97	17	112	147	106	111	83	14	1	4	27	35	80	29	0

FORT CANBY, WASH.

[H = 179 ft.; h_t = 10 ft.; h_r = 2 ft.; h_a = 34 ft.]

Month.	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.
January	18.5	E.	77	SE.	12	3	3	28	7	4	3	9	5	0	4	3	24	21	17	0	0	5	0	0	2	0	0
February	15.8	SE.	73	SE.	7	2	1	16	18	7	4	5	3	0	2	4	22	14	12	0	0	8	0	0	0	0	0
March	14.2	SE.	72	S.	8	8	2	2	19	8	2	7	14	0	6	9	16	18	14	0	3	4	0	0	1	0	0
April	16.2	SE.	72	S.	11	14	0	2	19	9	1	4	11	0	5	9	16	14	12	0	1	0	0	0	0	0	0
May	13.8	S.	66	S.	7	10	0	3	6	16	4	10	13	0	8	4	19	21	20	0	0	3	0	0	0	0	0
June	9.5	NW.	42	SE.	1	14	0	2	7	7	0	0	30	0	9	8	13	6	5	0	0	6	0	0	0	0	0
July	8.9	N.	42	SE.	1	26	1	1	7	7	0	3	16	1	11	7	13	5	4	0	0	5	0	1	0	0	0
August	8.6	N.	42	SE.	1	34	2	1	1	2	0	3	15	4	13	11	7	1	1	0	0	13	0	0	0	0	0
September	10.6	SE.	46	SE.	3	11	0	6	11	11	3	8	9	1	5	13	12	17	13	0	0	3	0	0	0	0	0
October	7.2	N.	47	S.	1	21	3	7	9	5	1	6	9	1	9	8	14	4	4	0	0	14	0	0	0	0	0
November	12.7	N.	78	SE.	7	14	2	9	14	7	1	6	4	3	6	7	17	16	16	0	2	8	0	0	0	0	0
December	22.1	W.	72	S.	19	3	0	13	15	14	1	15	1	0	0	4	27	28	27	1	5	4	0	0	1	0	0
Year	13.2	N.	78	SE.	78	160	14	90	133	97	20	76	130	10	78	87	200	165	145	1	11	73	0	1	4	0	0

CAPE HENRY, VA.

[H = — ft.; h_t = 5 ft.; h_r = 6 ft.; h_a = 34 ft.]

Month.	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.
January	14.3	SW.	....	.....	....	5	3	0	4	3	11	0	5	0	5	10	16	11	11	2	0	2	0	0	14	0	0
February	15.4	NW.	....	.....	....	9	3	0	1	1	2	0	12	0	14	7	7	8	7	8	0	0	9	0	23	0	0
March	15.0	NE.	....	.....	....	4	9	0	3	0	8	0	7	0	5	17	9	14	11	2	0	3	0	0	6	0	0
April	14.2	SE.	....	.....	....	1	7	0	10	0	9	3	0	0	8	11	11	12	9	0	0	3	0	0	0	0	0
May	12.1	SE.	....	.....	....	3	9	1	9	5	3	0	1	0	9	12	10	14	12	0	0	8	0	1	0	1	0
June	12.5	SE.	....	.....	....	2	7	5	7	1	7	0	1	0	14	12	4	8	6	0	0	0	0	6	0	1	0
July	10.6	SW.	....	.....	....	0	10	2	6	0	12	0	1	0	7	17	7	12	10	0	0	0	0	7	0	0	0
August	8.8	SW.	....	.....	....	0	0	0	8	8	11	2	2	0	12	15	4	7	7	0	0	0	0	9	0	0	0
September	11.6	S.	....	.....	....	1	9	3	3	10	3	0	1	0	14	9	7	0	0	0	0	0	0	4	0	0	0
October	15.5	NE.	....	.....	....	4	9	0	3	6	4	2	3	0	8	12	11	4	4	0	0	0	0	0	0	0	0
November	15.0	N.	....	.....	....	10	5	1	1	7	3	1	2	0	9	8	13	13	9	0	0	4	0	0	1	1	0
December	14.9	S.	....	.....	....	5	2	0	5	7	5	1	6	0	3	15	13	10	10	3	0	0	0	0	9	0	0
Year	13.3	SW.	....	.....	....	44	73	12	60	48	78	9	41	0	108	145	112	113	96	15	0	20	9	27	53	3	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

CARSON CITY, NEV.

[λ = 39° 10′ N.; φ = 119° 46′ W.; gravity corr., — 0.02.]

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	25.19	25.53	24.54	25.8	35.6	40.5	19.0	29.8	57	— 4	15	20	62	52	.095	.110	5.06	1.68	4.8	6.2	5.0
February	25.39	25.66	24.96	29.1	44.1	47.5	24.3	35.9	61	6	18	24	63	46	.106	.130	1.90	1.05	3.8	4.5	3.1
March	25.26	25.52	24.90	33.5	50.5	54.5	28.5	41.5	68	14	19	16	53	26	.101	.093	.41	.21	2.9	4.5	2.7
April	25.31	25.68	25.03	38.7	58.7	62.2	32.1	47.2	76	16	21	16	50	21	.116	.098	.29	.28	2.9	3.8	2.7
May	25.26	25.56	24.92	44.9	63.8	68.0	40.3	54.2	81	27	28	23	53	24	.157	.134	.62	.43	3.6	5.2	2.9
June	25.33	25.56	25.08	49.5	73.8	76.7	44.7	60.7	89	30	32	33	52	24	.187	.200	.07	.07	2.3	3.0	1.2
July	25.30	25.49	25.10	54.6	79.3	82.5	50.6	66.6	89	42	34	31	47	18	.198	.175	.00	.00	1.5	2.4	1.1
August	25.30	25.50	25.11	53.0	79.1	82.6	47.8	65.2	95	34	35	32	52	19	.209	.191	.03	.02	1.4	2.5	1.2
September	25.29	25.56	25.11	44.9	68.2	71.7	38.0	54.8	85	18	27	23	50	19	.152	.131	.16	.12	2.4	2.2	2.1
October	25.36	25.55	25.24	39.2	62.6	67.8	32.5	50.2	79	20	24	23	56	24	.133	.128	.76	.65	1.0	2.7	2.2
November	25.38	25.85	24.89	32.3	47.3	54.1	25.0	39.6	70	14	19	19	55	35	.099	.108	.86	.41	4.3	4.7	3.5
December	25.39	25.72	24.72	28.4	40.5	46.0	21.6	33.8	65	3	16	17	60	41	.093	.101	1.40	.59	4.2	6.1	4.3
Year	25.31	25.85	24.54	39.5	58.6	62.8	33.7	48.3	95	— 4	24	23	54	29	.137	.133	11.56	1.68	2.9	4.0	2.7

CHARLESTON, S. C.

[λ = 32° 47′ N.; φ = 79° 56′ W.; gravity corr., — 0.03.]

January	30.08	30.32	29.63	44.7	49.0	55.6	42.4	49.0	72	22	39	42	82	78	.257	.280	7.68	1.72	6.3	5.7	6.0
February	30.11	30.47	29.56	36.3	41.1	48.1	34.1	41.1	76	12	29	32	74	70	.173	.190	4.47	2.09	5.2	4.4	5.0
March	30.07	30.47	29.60	51.9	56.0	62.9	49.1	56.0	81	34	45	48	78	78	.322	.358	5.22	1.27	4.1	4.2	4.6
April	30.00	30.43	29.49	60.2	61.8	71.1	56.3	63.7	82	45	52	55	76	79	.412	.443	4.21	1.24	4.8	4.8	4.5
May	30.06	30.25	29.75	67.9	69.3	76.5	63.8	70.2	89	51	61	62	79	78	.552	.566	5.63	2.23	5.7	4.6	5.0
June	30.05	30.27	29.88	76.7	77.4	86.6	72.0	79.3	97	64	67	69	74	77	.679	.726	4.25	2.88	4.0	5.0	4.4
July	30.02	30.19	29.80	79.4	79.6	88.3	74.7	81.5	95	67	71	72	76	78	.762	.791	6.46	2.43	4.0	5.5	4.8
August	30.01	30.16	29.85	80.2	79.9	88.2	75.8	82.0	98	71	73	73	78	80	.803	.803	5.08	1.91	4.8	6.1	5.5
September	30.06	30.29	29.82	75.5	76.9	84.5	72.3	78.4	91	64	69	70	81	80	.720	.749	6.94	2.91	3.4	3.3	3.6
October	30.06	30.35	29.81	60.8	65.5	73.6	58.5	66.0	88	49	51	55	72	79	.393	.444	.77	.60	3.2	3.9	3.4
November	30.14	30.46	29.69	53.2	57.9	64.6	51.6	58.1	80	37	49	52	86	82	.371	.411	2.44	.80	5.3	4.8	5.3
December	30.14	30.54	29.63	45.8	50.9	58.4	43.4	50.9	72	30	41	45	82	80	.275	.309	2.03	1.06	4.1	3.7	3.7
Year	30.07	30.54	29.49	61.0	63.8	71.5	57.8	64.7	98	12	54	56	78	78	.477	.506	55.18	2.91	4.6	4.7	4.6

CHARLOTTE, N. C.

[λ = 35° 13′ N.; φ = 80° 51′ W.; gravity corr., — 0.02.]

January	29.24	29.54	28.74	34.3	40.5	46.5	31.5	39.0	66	3	30	34	84	77	.179	.203	5.84	1.40	6.5	5.0	6.8
February	29.27	29.67	28.75	27.2	35.2	41.0	24.8	32.9	69	1	20	23	74	64	.114	.133	1.87	.88	4.1	3.0	4.5
March	29.23	29.67	28.70	43.8	51.7	58.5	39.9	49.2	84	25	36	39	74	66	.226	.250	5.52	2.11	4.9	3.6	5.4
April	29.19	29.71	28.64	52.6	60.0	68.0	48.8	58.4	83	31	44	44	72	59	.299	.303	5.00	1.90	4.8	4.4	4.8
May	29.27	29.52	28.93	60.9	67.2	75.7	55.6	65.6	97	41	54	53	78	64	.433	.423	4.05	2.03	4.3	4.9	4.5
June	29.27	29.54	29.08	72.2	76.9	87.1	65.4	76.2	100	55	62	60	71	61	.556	.538	2.70	1.22	2.6	5.2	3.8
July	29.22	29.45	28.92	72.5	77.6	86.3	67.8	77.0	97	60	66	65	80	66	.641	.620	2.94	1.35	4.4	5.2	4.5
August	29.22	29.43	29.06	72.6	76.9	86.6	68.4	77.5	94	59	66	66	82	71	.657	.651	4.41	1.22	4.5	6.2	4.3
September	29.28	29.50	29.09	70.1	76.1	86.3	66.1	76.2	98	48	62	60	76	59	.565	.542	.33	.24	3.8	2.5	3.3
October	29.28	29.62	28.95	50.5	60.4	69.6	46.7	58.2	80	34	37	35	62	40	.236	.210	.79	.68	2.8	2.5	3.1
November	29.35	29.75	28.84	45.1	52.4	59.9	42.1	51.0	76	25	40	40	83	65	.274	.276	2.39	1.28	5.7	3.9	5.1
December	29.31	29.84	28.74	36.6	43.8	50.6	34.1	42.4	68	18	31	32	80	64	.189	.192	3.32	1.22	5.7	4.7	5.5
Year	29.26	29.84	28.64	53.2	59.9	68.0	49.3	58.6	100	1	46	46	76	63	.364	.362	39.16	2.11	4.5	4.3	4.6

CHATTANOOGA, TENN.

[λ = 35° 4′ N.; φ = 85° 15′ W.; gravity corr., — 0.03.]

January	29.29	29.60	28.73	34.0	40.6	44.6	31.2	37.9	65	5	29	30	81	70	.171	.181	6.58	1.45	6.9	6.6	7.1
February	29.38	29.68	29.02	28.1	36.9	42.0	25.7	33.8	73	— 2	20	21	70	55	.115	.124	2.14	.58	5.8	5.2	5.6
March	29.29	29.62	28.86	43.9	52.9	59.3	40.4	49.8	85	23	36	36	76	58	.230	.234	5.85	1.67	6.2	4.7	6.1
April	29.22	29.66	28.89	53.6	63.6	70.4	49.7	60.0	82	33	45	44	75	53	.316	.307	3.64	1.89	5.1	5.0	5.0
May	29.30	29.50	29.03	60.3	68.4	75.6	55.1	65.4	93	41	54	55	82	66	.441	.461	3.52	1.23	4.9	4.6	5.5
June	29.29	29.52	29.12	71.5	78.7	86.4	65.4	75.9	97	56	64	64	78	63	.601	.605	5.69	1.75	4.3	5.2	5.1
July	29.27	29.46	28.95	72.3	77.7	84.4	67.9	76.2	91	62	67	67	84	72	.668	.676	6.71	2.05	6.5	4.9	5.7
August	29.24	29.43	29.10	72.0	77.1	86.3	68.4	77.4	92	59	68	69	87	77	.688	.713	4.40	1.12	4.3	4.8	5.5
September	29.31	29.51	29.15	68.8	76.2	85.3	65.3	75.3	93	47	64	66	84	71	.610	.661	1.00	.44	4.1	1.7	3.8
October	29.34	29.57	29.03	47.8	60.0	70.0	44.4	57.2	83	34	39	42	74	53	.250	.281	2.00	1.54	2.6	2.2	2.9
November	29.39	29.73	28.87	44.9	53.4	61.2	41.8	51.5	77	26	39	40	80	62	.254	.269	1.71	1.24	5.3	5.3	5.6
December	29.34	29.74	28.89	37.3	43.7	51.9	33.4	42.6	66	15	32	33	82	67	.199	.203	3.11	.85	6.6	5.4	6.4
Year	29.30	29.74	28.73	52.9	60.8	68.1	49.1	58.6	97	— 2	46	47	79	64	.379	.393	45.36	2.05	5.2	4.6	5.4

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

CARSON CITY, NEV.

[H = 4,720 ft.; h_t = 47 ft.; h_r = 42 ft.; h_a = — ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	.....	S.	.....	.....	.....	5	5	6	7	14	10	7	4	4	18	1	12	11	9	8	0	3	5	0	24	0	0
February	.....	Calm. N.	.....	.....	.....	8	6	4	3	6	7	6	6	10	21	3	4	6	5	4	0	0	1	0	21	0	0
March	.....	S.	.....	.....	.....	4	3	3	4	11	9	9	8	11	23	4	4	8	2	3	0	0	0	0	24	0	0
April	.....	W.	.....	.....	.....	3	0	5	2	9	8	16	5	12	23	5	2	2	1	0	0	0	0	0	12	1	0
May	.....	SW.	.....	.....	.....	2	1	4	4	1	18	16	5	11	25	2	4	4	3	2	0	0	0	0	3	1	0
June	.....	W.	.....	.....	.....	0	2	4	8	1	4	18	10	13	29	1	0	1	1	0	0	0	0	0	1	0	0
July	.....	W.	.....	.....	.....	1	1	1	4	0	8	22	7	18	31	0	0	0	0	0	0	0	0	0	0	0	0
August	.....	SW.	.....	.....	.....	1	1	2	10	3	17	11	6	11	28	1	2	3	0	0	0	0	0	3	0	3	0
September	.....	SW.	.....	.....	.....	1	4	1	2	1	24	8	8	11	26	1	3	2	2	0	0	0	0	0	6	0	0
October	.....	Calm. NW.	.....	.....	.....	4	6	6	9	2	4	4	10	17	24	3	4	4	3	0	1	0	0	0	16	2	0
November	.....	NW.	.....	.....	.....	6	8	1	9	5	4	6	11	10	20	3	7	5	4	3	0	0	1	0	25	0	0
December	.....	N.	.....	.....	.....	20	2	4	4	6	7	5	9	5	17	1	13	7	4	6	0	1	3	0	29	0	0
Year	.....	Calm. W.	.....	.....	.....	55	39	41	66	59	120	128	89	133	285	25	55	53	34	26	1	4	10	3	161	7	0

CHARLESTON, S. C.

[H = 52 ft.; h_t = 60 ft.; h_r = 55 ft.; h_a = 72 ft.]

Month.	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.
January	7.8	N.	32	S.	0	15	8	4	4	4	10	11	6	0	5	15	11	12	11	0	0	5	0	0	3	1	0
February	8.8	W.	36	W.	0	12	7	6	0	2	7	14	8	0	12	8	8	9	7	0	0	1	1	0	9	1	0
March	8.6	SW.	36	SW.	0	3	9	6	2	10	21	4	7	0	13	9	9	11	9	0	0	5	0	0	0	5	0
April	8.9	SW.	31	N.	0	6	9	4	7	10	17	3	4	0	13	11	6	12	10	0	0	1	0	0	0	3	0
May	8.1	SW.	30	E.	0	7	8	11	8	9	14	2	3	0	10	14	7	10	8	0	0	2	0	0	0	6	0
June	7.3	SW.	28	NE.	0	3	6	3	2	11	26	6	3	0	11	15	4	10	7	0	0	0	0	7	0	13	0
July	7.7	SW.	26	SW.	0	0	7	4	5	8	29	7	2	0	6	25	0	13	10	0	0	0	0	9	0	15	0
August	6.7	SW.	27	E.	0	1	8	9	4	7	27	2	4	0	4	22	5	13	10	0	0	0	0	7	0	18	1
September	7.7	NE.	28	NE.	0	7	13	12	12	5	8	2	1	0	15	10	5	8	7	0	0	3	0	2	0	6	0
October	8.9	N.	30	N.	0	20	16	4	3	3	7	3	6	0	16	13	2	3	3	0	0	3	0	0	0	0	0
November	8.6	N.	24	NW.	0	16	15	7	2	4	9	2	5	0	11	9	10	13	9	0	0	9	0	0	0	3	0
December	7.8	NW.	36	W.	0	6	12	3	6	6	9	8	12	0	17	8	6	11	6	0	0	2	0	0	4	1	0
Year	8.1	SW.	36	W. SW.	0	96	118	73	55	79	184	64	61	0	133	159	73	125	97	0	0	31	1	25	16	72	1

CHARLOTTE, N. C.

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

Month.	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.
January	7.7	SW.	36	SW.	0	2	5	10	8	3	25	3	4	2	5	10	16	17	11	1	0	3	1	0	13	1	0
February	7.4	SW.	26	NW.	0	3	9	12	2	3	15	5	5	2	14	5	9	7	7	6	0	1	7	0	21	0	0
March	8.6	SW.	36	W.	0	3	3	6	10	6	22	6	5	1	10	8	13	11	11	0	0	2	0	0	4	0	0
April	7.9	SW.	42	S.	1	1	10	7	6	7	20	1	6	2	14	9	7	16	11	0	0	0	0	0	1	3	0
May	6.9	SW.	28	SW.	0	4	7	9	9	9	16	4	3	1	13	12	6	13	10	0	1	2	0	2	0	5	0
June	5.3	E.	30	SW.	0	1	11	13	10	8	11	3	1	2	14	13	3	12	9	0	0	1	0	12	0	8	0
July	5.7	SW.	22	SW.	0	0	11	7	6	8	23	4	2	1	11	15	5	8	8	0	0	0	0	8	0	8	0
August	5.1	SW.	30	SW.	0	1	4	13	8	4	26	5	1	0	15	12	4	11	8	0	0	0	0	10	0	7	0
September	5.1	S.	20	S.	0	3	8	8	11	16	9	3	1	1	17	11	2	6	3	0	0	0	0	11	0	3	0
October	6.7	NE.	25	SW.	0	1	28	4	10	8	7	1	3	0	19	9	3	3	2	0	0	0	0	0	0	0	0
November	7.8	NE.	32	SW.	0	1	27	7	10	9	3	0	3	0	11	10	9	8	5	0	0	2	0	0	4	0	0
December	7.3	NE.	48	S.	1	2	21	5	12	9	9	1	2	1	11	8	12	10	9	1	0	2	0	0	14	0	0
Year	6.7	SW.	48	S.	2	22	144	101	102	90	186	36	36	13	154	122	89	122	94	8	1	13	8	43	57	35	0

CHATTANOOGA, TENN.

[H = 762 ft.; h_t = 106 ft.; h_r = 97 ft.; h_a = 112 ft.]

Month.	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.
January	8.2	W.	41	W.	1	13	5	8	1	9	4	18	4	0	5	8	18	15	13	3	0	4	2	0	16	0	0
February	7.8	W.	40	NW.	1	10	10	9	0	3	2	15	6	1	9	11	8	8	6	8	0	1	9	0	21	0	0
March	7.6	S.	43	W.	1	10	10	3	7	16	5	5	6	0	8	11	12	15	14	0	0	3	0	0	8	2	0
April	7.9	W.	40	S.	1	6	8	6	10	7	1	12	8	2	11	12	7	11	8	0	0	1	0	0	0	12	0
May	5.6	S.	49	W.	1	5	11	10	6	15	4	5	5	1	11	7	13	9	8	0	0	5	0	1	0	9	0
June	4.9	W.	60	W.	1	10	4	5	7	5	3	20	5	1	9	13	8	9	9	0	0	0	0	6	0	12	0
July	5.6	W.	36	SW.	0	4	6	3	3	11	7	16	11	1	7	16	8	14	12	0	0	0	0	2	0	15	0
August	4.5	W.	31	W.	0	5	10	4	11	5	5	18	4	0	7	16	8	14	14	0	0	5	0	6	0	17	0
September	4.8	W.	32	S.	0	7	9.	4	7	7	3	15	7	1	17	11	2	5	5	0	0	9	0	6	0	7	0
October	5.7	W.	27	SW.	0	9	4	5	8	6	5	17	8	0	22	4	5	6	4	0	0	9	0	0	0	0	0
November	6.7	S.	36	W.	0	5	8	4	5	15	2	10	11	0	10	8	12	6	6	0	0	5	0	0	4	0	0
December	8.4	S.	47	W.	2	6	2	3	9	16	2	13	11	0	5	11	15	10	8	4	0	6	0	0	14	0	0
Year	6.5	W.	60	W.	8	90	87	64	74	115	43	164	86	7	121	128	116	122	107	15	0	48	11	21	63	74	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

CHEYENNE, WYO.

[λ=41° 8′ N.; φ=104° 48′ W.; gravity corr., —0.01.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	3 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	%	%	In.	In.	In.	In.			
January	23.82	24.23	23.51	21.3	25.5	34.5	15.1	24.8	53	—12	13	12	68	55	.078	.075	.29	.10	4.3	4.9	5.1
February	23.97	24.23	23.64	16.8	23.8	32.2	11.4	21.8	58	—20	9	10	69	58	.075	.077	.90	.13	4.9	4.1	4.9
March	23.90	24.33	23.53	23.1	35.3	42.1	19.9	31.0	69	— 9	16	19	74	52	.094	.109	1.26	.55	3.8	4.0	4.5
April	23.98	24.37	23.49	35.9	53.6	59.3	32.9	46.1	73	21	26	31	67	44	.139	.173	1.21	.54	4.0	5.3	4.8
May	23.97	24.37	23.41	43.6	57.1	62.3	38.8	50.6	84	27	34	37	70	50	.197	.222	2.73	1.21	4.3	5.2	5.4
June	24.09	24.26	23.80	49.2	63.0	68.5	45.0	56.8	85	38	39	44	68	52	.238	.290	2.59	1.04	3.6	5.6	5.2
July	24.12	24.29	23.90	54.9	69.2	74.9	51.1	63.0	92	40	44	48	67	50	.286	.339	2.54	1.35	4.9	5.8	5.5
August	24.12	24.30	23.88	54.9	71.6	78.5	52.0	65.2	90	46	44	48	68	47	.291	.338	1.69	.84	3.7	5.4	4.7
September	24.05	24.37	23.67	46.9	67.4	74.9	44.2	59.6	90	20	30	31	53	28	.168	.176	.39	.33	2.5	4.0	3.6
October	24.12	24.33	23.84	34.9	47.3	58.4	30.7	44.6	73	12	24	23	63	40	.132	.121	.95	.78	2.0	3.2	3.0
November	23.96	24.24	23.61	28.9	33.1	43.4	23.3	33.4	65	— 3	18	15	62	47	.100	.084	.63	.24	5.2	4.7	5.5
December	23.91	24.25	23.40	23.6	27.5	36.7	17.8	27.2	60	— 5	13	9	62	43	.080	.063	.18	.09	3.6	3.5	4.3
Year	24.00	24.37	23.40	36.2	47.9	55.5	31.8	43.7	92	—20	26	27	66	47	.156	.172	14.76	1.35	3.9	4.6	4.7

CHICAGO, ILL.

[λ=41° 53′ N.; φ=87° 37′ W.; gravity corr., —0.01.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	3 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.
January	29.10	29.70	28.30	15.5	20.2	24.8	10.3	17.6	51	— 9	11	15	82	80	.083	.093	2.15	.91	6.4	3.7	5.8
February	29.22	29.60	28.44	12.9	21.0	24.1	9.9	17.0	61	—15	10	15	86	76	.080	.101	1.60	.91	4.5	3.6	4.1
March	29.14	29.47	28.68	28.5	34.7	39.1	24.3	31.7	80	9	19	24	68	67	.106	.135	1.32	.73	5.1	3.2	4.0
April	29.12	29.49	28.68	44.7	47.6	58.4	39.2	46.3	81	29	35	38	71	71	.209	.232	.86	.38	6.5	5.6	4.4
May	29.13	29.45	28.82	56.7	61.5	67.9	50.4	59.2	94	32	45	46	67	60	.330	.338	1.99	.57	4.7	4.4	3.8
June	29.17	29.42	28.93	68.7	69.9	77.5	62.8	70.2	95	50	54	55	60	61	.426	.441	1.79	.60	4.9	4.0	3.0
July	29.14	29.41	28.84	67.7	72.3	77.1	63.3	70.2	92	50	56	56	67	57	.458	.453	2.42	.86	5.9	5.1	3.7
August	29.08	29.34	28.83	69.3	74.7	79.2	65.7	72.4	93	58	57	58	66	58	.475	.496	6.49	3.65	4.3	3.5	3.3
September	29.14	29.38	28.80	63.4	71.3	77.0	60.2	68.6	92	36	53	56	70	60	.442	.488	.89	.58	3.3	1.9	2.9
October	29.18	29.59	28.68	41.7	48.8	53.9	38.5	46.2	71	24	29	32	61	54	.171	.196	.51	.38	3.2	3.5	3.5
November	29.21	29.54	28.68	34.6	38.4	42.3	30.7	36.5	67	8	28	29	76	69	.157	.161	5.60	1.77	6.7	6.5	6.9
December	29.10	29.49	28.62	28.3	30.7	34.6	24.6	29.6	56	0	23	24	79	76	.135	.142	6.76	2.66	7.7	6.2	7.4
Year	29.14	29.70	28.30	44.3	49.3	54.2	40.0	47.1	95	—15	35	37	71	66	.256	.273	32.38	3.65	5.3	4.3	4.4

CINCINNATI, OHIO.

[λ=39° 6′ N.; φ=84° 30′ W.; gravity corr., —0.02.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	3 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.
January	29.38	29.86	28.60	23.6	29.3	33.5	19.8	26.6	60	—10	19	22	83	74	.121	.132	6.13	3.57	6.2	6.2	6.2
February	29.49	29.84	28.97	18.3	27.1	30.8	16.7	23.8	67	—12	14	17	85	66	.092	.105	.37	.22	3.9	3.5	3.5
March	29.37	29.70	28.87	35.8	43.7	49.1	32.5	40.8	84	20	28	31	73	62	.156	.189	1.51	.54	5.5	4.9	5.2
April	29.33	29.80	28.93	49.6	59.8	64.5	46.2	55.4	82	31	40	44	72	60	.261	.299	2.62	1.24	4.3	4.7	4.9
May	29.40	29.67	29.07	58.8	67.8	73.1	54.2	63.6	92	36	49	47	69	50	.373	.361	1.82	.51	3.9	3.6	4.5
June	29.40	29.72	29.18	71.5	80.6	85.5	66.2	75.8	97	54	57	56	61	46	.476	.466	2.15	1.17	2.3	3.9	3.3
July	29.36	29.62	29.08	70.3	78.9	84.0	66.1	75.0	95	55	59	57	68	50	.506	.488	2.27	1.03	3.9	4.0	4.6
August	29.32	29.50	29.11	71.0	81.5	87.2	67.1	77.2	96	54	59	57	68	46	.522	.486	3.29	1.98	3.2	4.2	3.9
September	29.41	29.60	29.18	65.9	77.0	82.5	63.0	72.8	95	41	55	54	68	45	.459	.438	.49	.29	2.8	2.7	3.3
October	29.45	29.87	29.07	43.4	54.9	61.2	41.1	51.2	74	27	32	30	66	40	.191	.174	.73	.26	1.7	2.0	3.0
November	29.49	29.86	28.87	39.2	45.9	52.6	35.7	44.2	78	22	32	35	76	67	.193	.218	4.66	1.97	6.2	5.8	6.3
December	29.40	29.72	29.02	34.4	39.0	43.5	31.1	37.3	64	14	28	30	78	70	.170	.178	3.29	1.42	6.6	6.6	6.7
Year	29.40	29.87	28.60	48.5	57.1	62.3	45.0	53.6	97	—12	39	40	72	56	.293	.294	29.33	3.57	4.2	4.3	4.6

CLEVELAND, OHIO.

[λ=41° 30′ N.; φ=81° 42′ W.; gravity corr., —0.01.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	3 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.
January	29.19	29.76	28.49	20.1	23.8	29.5	15.4	22.4	56	— 5	17	20	86	86	.101	.116	2.32	.76	7.5	7.3	7.4
February	29.26	29.67	28.65	16.1	21.3	26.5	13.2	19.8	62	— 6	11	17	80	83	.079	.103	.43	.13	7.2	5.6	5.3
March	29.23	29.58	28.66	27.1	31.8	39.3	22.8	31.0	62	6	22	25	79	77	.118	.135	1.23	.35	6.3	4.7	5.6
April	29.22	29.75	28.76	45.4	51.4	56.9	39.6	48.2	78	26	36	40	72	68	.220	.258	1.38	.35	4.8	5.1	4.9
May	29.26	29.51	28.83	57.4	62.9	68.9	50.0	59.4	89	32	46	48	67	62	.344	.367	1.84	.61	4.1	3.4	4.2
June	29.29	29.62	29.04	68.5	73.1	78.2	61.6	69.9	91	41	57	57	67	60	.468	.481	1.82	.70	3.3	3.4	4.1
July	29.22	29.53	28.89	66.8	72.9	77.1	60.9	69.0	94	48	55	57	67	58	.446	.472	1.18	.62	4.0	3.5	5.0
August	29.18	29.41	28.95	68.1	72.9	78.9	62.6	70.8	91	48	59	59	73	64	.507	.520	4.59	1.00	4.5	3.7	4.8
September	29.26	29.49	28.89	64.2	68.3	75.4	59.7	67.6	92	42	55	57	72	69	.454	.498	1.68	.64	5.1	3.5	5.0
October	29.26	29.72	28.86	43.7	48.1	53.9	39.5	46.7	68	27	33	36	66	65	.196	.223	1.71	1.36	4.5	4.1	4.6
November	29.33	29.73	28.70	37.6	41.6	48.7	34.2	41.4	73	20	32	34	79	77	.190	.209	4.52	1.83	6.6	6.2	6.8
December	29.24	29.70	28.53	31.1	34.1	39.1	27.3	33.2	62	9	26	29	81	82	.153	.170	4.14	1.28	7.4	6.9	7.0
Year	29.24	29.76	28.49	45.5	50.2	56.0	40.6	48.3	94	— 6	37	40	74	71	.273	.296	26.84	1.83	5.4	4.8	5.4

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

CHEYENNE, WYO.

[H=6,105 ft.; h_t=58 ft.; h_r=50 ft.; h_a=60 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	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	13.2	NW.	44	W.	3	5	0	0	0	6	16	12	23	0	4	23	4	5	3	5	0	0	11	0	29	0	0
February	14.4	NW.	48	SW.	5	9	2	0	2	3	6	13	21	0	8	16	4	6	2	6	0	0	10	0	25	0	0
March	14.4	NW.	56	W.	4	6	3	1	3	5	8	10	26	0	10	16	5	6	5	6	0	1	8	0	26	0	0
April	11.2	NW.	60	NW.	3	8	2	3	2	4	5	12	23	1	7	18	5	7	6	4	0	0	2	0	11	0	0
May	11.2	NW	36	W.	0	11	7	2	2	10	5	9	16	0	6	20	5	11	8	1	0	2	0	0	3	1	0
June	10.6	NW.	44	S.	2	8	5	1	2	12	5	8	19	0	8	17	5	10	7	0	0	1	0	0	0	0	0
July	9.4	S.	34	W.	0	4	5	4	2	23	2	10	12	0	6	16	9	10	7	0	0	0	0	1	0	2	0
August	8.6	NW.	38	NW.	0	8	3	3	0	10	13	10	15	0	11	15	5	8	7	0	0	0	0	1	0	1	0
September	10.3	NW.	38	SW.	0	3	4	0	3	9	5	18	18	0	15	14	1	4	2	2	0	0	0	0	4	0	0
October	9.3	NW.	42	NW.	1	6	5	0	1	8	6	11	25	0	18	9	4	4	4	1	0	0	0	0	15	0	0
November	12.3	NW.	44	NW.	5	5	4	1	1	3	7	12	27	0	6	16	8	8	4	8	0	0	4	0	23	0	0
December	15.2	NW.	50	W.	6	4	1	1	0	3	3	18	32	0	12	16	3	4	2	4	0	0	11	0	26	0	0
Year	11.7	NW.	60	NW.	29	77	41	16	18	96	81	143	257	1	111	196	58	83	57	37	0	4	46	2	162	4	0

CHICAGO, ILL.

[H=824 ft.; h_t=241 ft.; h_r=258 ft.; h_a=274 ft.]

Month.	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.
January	18.1	NW.	64	SW.	4	4	3	1	7	6	10	13	18	0	12	6	13	14	9	11	0	2	22	0	31	1	0
February	18.4	W.	51	SW.	3	3	2	1	1	3	9	22	15	0	13	11	4	6	4	4	0	1	20	0	24	0	0
March	20.0	NE.	50	NE.	8	6	18	2	5	4	7	11	9	0	17	8	6	7	3	5	0	0	8	0	25	1	0
April	18.3	NE.	40	E.	3	10	24	6	3	8	1	7	1	0	11	13	6	7	4	0	0	1	0	0	5	0	0
May	17.3	S.	50	N.	3	6	10	3	8	16	9	9	1	0	15	14	2	10	8	0	0	0	0	4	0	4	0
June	13.7	NE.	40	NW.	1	7	16	5	6	7	8	10	1	0	16	13	1	7	6	0	1	0	0	3	0	4	0
July	14.3	NE.	50	W.	6	7	12	5	11	2	7	17	1	0	14	17	0	9	9	0	0	0	0	2	0	8	0
August	13.2	SW.	45	S.	1	12	6	6	4	11	12	8	3	0	18	11	2	8	7	0	0	1	0	3	0	6	0
September	18.7	S.	53	S.	8	4	2	3	3	21	12	10	5	0	19	9	2	7	4	0	0	0	0	4	0	4	0
October	17.2	SW.	56	SW.	5	11	2	2	1	10	16	12	8	0	19	5	7	4	2	0	0	0	0	0	7	0	0
November	19.3	S.	53	S.	7	12	5	1	1	19	7	5	10	0	5	11	14	12	12	6	0	5	3	0	17	0	2
December	18.8	S.	54	NE.	6	8	5	0	2	17	11	11	8	0	3	12	16	15	12	7	0	4	12	0	20	0	0
Year	17.3	NE.	64	SW.	55	90	105	35	52	124	109	135	80	0	162	130	73	106	80	33	1	14	65	16	129	28	2

CINCINNATI, OHIO.

[H=628 ft.; h_t=153 ft.; h_r=145 ft.; h_a=157 ft.]

Month.	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.
January	8.9	SW.	36	W.	0	2	7	5	11	7	16	6	8	0	10	7	14	15	12	9	0	3	13	0	27	1	0
February	8.4	NW.	30	SW.	0	4	6	3	2	5	14	9	13	0	16	8	4	6	2	6	0	4	14	0	24	0	0
March	9.8	NW.	40	W.	1	5	13	3	8	2	17	5	9	0	13	7	11	14	10	5	0	4	3	0	16	1	0
April	7.8	SE.	32	NW.	0	8	13	6	10	4	6	2	11	0	15	5	10	10	9	0	1	1	0	0	1	2	0
May	6.4	SE.	29	W.	0	2	4	6	20	10	9	1	10	0	13	13	5	9	6	0	0	0	0	2	0	6	0
June	6.2	SE.	35	SW.	0	8	6	9	14	6	7	7	3	0	20	6	4	4	3	0	0	0	0	6	0	2	0
July	6.2	SW.	35	SW.	0	2	9	9	7	9	9	6	10	1	11	15	5	10	8	0	0	0	0	7	0	4	0
August	6.2	SW.	38	NW.	0	6	8	2	11	11	11	4	9	0	16	11	4	8	7	0	0	1	0	9	0	6	0
September	6.8	SE.	30	NW.	0	5	4	8	11	4	11	7	10	0	19	7	4	4	3	0	0	0	0	8	0	4	0
October	7.3	NW.	27	SW.	0	10	6	4	8	7	7	6	14	0	20	7	4	6	4	0	0	5	0	0	3	1	0
November	7.2	SE.	48	SW.	1	9	5	3	25	7	2	3	6	0	8	8	14	11	8	1	0	3	0	0	10	0	0
December	8.1	SE.	36	NW.	0	4	3	4	21	12	3	8	7	0	5	9	17	13	10	7	0	2	7	0	20	0	0
Year	7.4	SE.	48	SW.	2	65	84	62	148	84	112	64	110	1	166	103	96	110	82	28	1	23	37	32	101	27	0

CLEVELAND, OHIO.

[H=740 ft.; h_t=122 ft.; h_r=109 ft.; h_a=130 ft.]

Month.	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.
January	14.9	SW.	52	SW.	5	3	3	3	14	11	21	6	1	0	3	9	19	17	13	11	0	1	17	0	29	0	0
February	15.9	SW.	49	SW.	5	1	1	1	7	6	17	16	7	0	9	11	8	10	4	8	0	0	18	0	26	0	0
March	14.2	N.	45	SW.	2	12	11	1	7	6	10	6	9	0	10	8	13	11	7	9	0	0	5	0	28	0	0
April	12.1	N.	37	W.	0	7	10	7	9	3	8	9	7	0	13	8	9	11	7	1	0	2	0	0	4	0	0
May	11.7	SE.	45	SW.	2	8	6	5	18	9	3	6	7	0	15	8	8	10	7	0	0	0	0	0	1	5	0
June	9.6	SE.	43	SW.	1	9	9	4	16	0	11	6	5	0	15	10	5	12	9	0	0	0	0	1	0	5	0
July	10.2	N.	46	S.	1	12	9	8	8	10	3	8	4	0	8	16	7	7	5	0	0	0	0	1	0	3	0
August	9.6	SE.	52	W.	1	8	10	12	17	3	7	4	1	0	18	6	7	13	12	0	1	0	0	1	0	9	0
September	12.3	SE.	42	W.	2	7	6	7	22	5	7	5	1	0	14	6	10	10	8	0	0	0	0	3	0	2	0
October	15.6	SE.	50	SW.	4	9	3	6	14	10	11	8	1	0	14	6	11	8	4	2	0	0	0	0	5	1	2
November	14.0	SE.	73	S.	4	1	3	8	24	4	10	3	7	0	5	9	16	13	12	3	0	0	2	0	11	0	0
December	15.1	SE.	42	W.	2	1	6	1	25	9	12	4	4	0	7	5	19	14	12	7	0	1	12	0	22	0	0
Year	12.9	SE.	73	S.	29	78	77	63	181	76	120	81	54	0	131	102	132	136	100	41	1	4	54	6	126	25	2

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

COLUMBIA, MO.

[λ=38° 58′ N.; φ=92° 14′ W.; gravity corr., —0.02.]

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	29.22	29.78	28.53	.....	24.7	35.8	13.5	24.6	69	—7	....	18	....	73	.....	.108	1.23	1.02	.....	6.0	5.6
February	29.35	29.67	28.76	.....	24.4	34.4	12.8	23.6	72	—16	....	18	....	77	.....	.119	.31	.11	.....	6.5	7.0
March	29.18	29.50	28.82	.....	43.0	56.0	30.7	43.4	85	7	....	31	....	64	.....	.189	3.41	1.91	.....	5.4	5.6
April	29.10	29.44	28.72	.....	59.7	71.2	46.5	58.8	90	32	....	46	....	62	.....	.316	1.04	.35	.....	7.1	6.9
May	29.14	29.42	28.89	.....	64.9	76.5	53.0	64.8	91	33	....	55	....	71	.....	.458	6.09	1.09	.....	6.3	5.5
June	29.18	29.32	29.01	.....	74.2	84.9	62.0	73.4	92	52	....	65	....	73	.....	.615	5.78	1.90	.....	5.2	5.8
July	29.16	29.39	28.89	.....	74.6	84.9	64.1	74.5	96	50	....	68	....	80	.....	.687	4.93	1.60	.....	5.9	6.6
August	29.12	29.39	28.98	.....	75.6	87.2	63.9	75.6	97	52	....	68	....	78	.....	.692	2.30	1.08	.....	4.7	6.0
September	29.17	29.42	28.86	.....	72.3	85.9	60.3	73.1	98	26	....	61	....	68	.....	.574	1.48	.96	.....	2.3	3.8
October	29.27	29.58	28.85	.....	52.9	68.5	36.4	52.4	83	19	....	35	....	51	.....	.215	.25	.12	.....	2.5	3.2
November	29.24	29.58	28.81	.....	42.3	53.4	31.8	42.6	78	9	....	34	....	74	.....	.200	4.19	2.05	.....	5.8	6.4
December	29.16	29.53	28.43	.....	34.2	44.4	25.9	35.2	65	—4	....	25	....	69	.....	.145	7.82	3.86	.....	5.8	6.9
Year	a29.19	29.78	28.43	.....	53.6	65.3	41.7	53.5	98	—16	....	44	....	70	.....	.360	38.83	3.86	.....	5.3	5.8

a Mean of 8 p. m. observation only.

COLUMBIA, S. C.

[λ=34° N.; φ=81° 3′ W.; gravity corr., —.]

January	.....	.....	.....	.....	.....	53.4	37.0	45.2	73	10	....	....	....	....	.....	.....	7.27	2.80	.....	.....	....
February	.....	.....	.....	.....	.....	46.0	28.6	37.3	75	8	....	....	....	....	.....	.....	3.25	1.14	.....	.....	....
March	.....	.....	.....	.....	.....	64.4	44.2	54.3	85	28	....	....	....	....	.....	.....	6.38	1.87	.....	.....	....
April	.....	.....	.....	.....	.....	72.5	51.3	61.9	85	37	....	....	....	....	.....	.....	5.91	1.69	.....	.....	....
May	.....	.....	.....	.....	.....	80.0	58.4	69.2	98	43	....	....	....	....	.....	.....	3.80	.96	.....	.....	....
June	.....	.....	.....	.....	.....	91.0	66.8	78.9	102	56	....	....	....	....	.....	.....	3.59	1.08	.....	.....	....
July	.....	.....	.....	.....	.....	90.8	68.8	79.8	96	62	....	....	....	....	.....	.....	5.50	3.10	.....	.....	....
August	.....	.....	.....	.....	.....	90.2	69.2	79.7	98	64	....	....	....	....	.....	.....	9.57	1.87	.....	.....	....
September	.....	.....	.....	.....	.....	89.3	65.9	77.6	96	54	....	....	....	....	.....	.....	1.47	1.26	.....	.....	....
October	.....	.....	.....	.....	.....	75.8	46.1	61.0	92	37	....	....	....	....	.....	.....	1.48	.56	.....	.....	....
November	.....	.....	.....	.....	.....	64.6	43.3	54.0	83	26	....	....	....	....	.....	.....	1.71	.77	.....	.....	....
December	.....	.....	.....	.....	.....	57.9	34.6	46.2	75	19	....	....	....	....	.....	.....	3.27	1.07	.....	.....	....
Year	.....	.....	.....	.....	.....	73.0	51.2	62.1	102	8	....	....	....	....	.....	.....	53.20	3.10	.....	.....	....

COLUMBUS, OHIO,

[λ=39° 58′ N.; φ=83° W.; gravity corr.,—0.01.]

January	29.16	29.65	28.51	20.9	26.6	31.3	16.9	24.1	56	—8	16	21	82	78	.104	.120	4.67	1.01	7.2	5.7	7.2
February	29.25	29.62	28.73	15.7	23.7	28.2	13.8	21.0	64	—8	11	17	81	76	.079	.105	.64	.36	6.0	3.4	5.0
March	29.16	29.50	28.65	31.9	39.0	45.4	28.0	36.7	79	16	25	28	76	66	.140	.163	1.23	.46	5.5	5.2	6.0
April	29.14	29.62	28.72	48.1	55.9	63.1	43.2	53.2	83	27	38	40	69	58	.240	.254	4.12	3.33	5.4	5.4	5.5
May	29.19	29.45	28.82	58.4	66.6	74.0	51.5	62.8	96	35	48	47	68	51	.362	.348	1.73	1.06	5.5	3.8	5.1
June	29.20	29.52	28.96	70.2	77.6	86.4	63.4	74.9	99	46	57	55	64	48	.475	.446	2.94	1.54	3.6	4.6	4.6
July	29.15	29.42	28.85	68.2	77.4	85.1	62.6	73.8	97	50	56	53	65	45	.459	.427	1.45	.76	5.1	5.0	5.4
August	29.11	29.32	28.88	69.4	78.6	87.6	63.5	75.6	96	52	59	56	70	49	.512	.471	2.10	.87	4.5	4.4	5.2
September	29.20	29.39	28.93	64.8	73.0	82.1	60.3	71.2	97	37	55	53	71	50	.457	.423	1.48	.54	5.0	2.2	5.2
October	29.22	29.66	28.83	41.4	51.1	60.0	37.5	48.2	73	20	33	35	71	55	.194	.210	.92	.49	3.7	2.1	5.3
November	29.27	29.65	28.72	37.4	43.6	50.7	34.2	42.4	77	18	33	36	85	76	.200	.223	5.32	1.92	6.5	6.5	6.9
December	29.18	29.56	28.64	31.8	35.7	41.2	28.6	34.9	62	13	28	30	87	81	.166	.180	4.14	1.37	7.4	7.0	7.5
Year	29.19	29.66	28.51	46.5	54.1	61.2	42.0	51.6	99	—8	38	39	74	61	.282	.281	30.74	3.33	5.4	4.6	5.7

CONCORDIA, KANS.

[λ=39° 35′ N.; φ=97° 41′ W.; gravity corr., —0.01.]

January	28.56	29.24	28.00	15.8	25.4	34.0	13.0	23.5	69	—6	11	13	79	53	.078	.085	0.54	0.50	3.5	2.0	3.7
February	28.71	29.22	28.25	17.2	27.2	34.9	14.6	24.8	72	—17	12	15	78	58	.094	.106	1.86	1.52	5.6	3.4	5.0
March	28.52	28.96	28.04	31.8	45.5	54.4	28.4	41.4	93	—2	22	24	69	47	.129	.137	.44	.20	2.5	3.4	4.2
April	28.45	28.88	27.80	50.2	65.5	72.8	46.0	59.4	88	28	42	40	75	43	.276	.262	.68	.44	3.4	3.4	4.2
May	28.45	28.85	27.89	58.0	72.7	79.4	53.1	66.2	100	35	46	43	67	38	.337	.305	1.01	.56	2.5	2.3	3.4
June	28.53	28.74	28.24	66.0	76.9	83.7	60.8	72.2	101	49	59	55	80	51	.524	.440	3.87	1.40	4.4	3.5	5.1
July	28.53	28.82	28.26	68.7	82.0	87.8	64.6	76.2	108	46	62	61	80	52	.563	.547	.96	.34	4.8	2.3	4.8
August	28.49	28.79	28.27	67.7	80.3	87.2	64.7	76.0	106	58	63	64	86	59	.584	.593	4.98	1.90	4.2	2.8	3.8
September	28.49	28.95	28.13	63.1	77.9	85.8	61.0	73.4	104	29	53	53	73	44	.440	.425	.89	.66	1.8	1.6	2.3
October	28.65	28.96	28.28	41.4	54.8	65.4	39.3	52.4	83	20	32	36	68	52	.190	.228	.70	.40	1.6	2.1	2.7
November	28.58	28.95	28.05	32.5	41.7	50.3	30.7	40.5	76	5	27	28	80	58	.155	.155	1.19	.54	4.0	4.0	4.7
December	28.55	28.95	28.11	25.5	34.5	42.6	24.0	33.3	62	6	19	20	75	52	.106	.108	.03	.02	4.6	2.4	4.3
Year	28.54	29.24	27.80	44.8	57.0	64.9	41.7	53.3	104	—17	37	38	76	51	.290	.282	17.15	1.90	3.6	2.8	4.0

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

COLUMBIA, MO.*

[H=783 ft.; h_t=4 ft.; h_r=2 ft.; h_a=84 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	7.6	SE.	31	W.	0	4	2	3	7	3	2	6	4	0	12	6	13	6	3	5	0	0	13	0	27	1	0
February	7.1	NW.	28	NW.	0	1	1	4	2	0	8	4	8	0	4	9	15	9	3	8	0	0	15	0	23	0	0
March	9.3	NE.	30	NW.	0	1	7	2	5	2	4	4	6	0	10	10	11	12	9	6	1	0	3	0	18	2	0
April	8.1	NE.	35	S.	0	1	7	6	5	2	2	2	5	0	7	8	15	10	5	0	0	0	0	0	0	1	0
May	7.7	SE.	28	NW.	0	1	1	4	12	7	1	0	5	0	12	9	10	17	13	0	0	0	0	1	0	10	0
June	5.6	SE.	34	W.	0	3	4	3	6	6	0	4	4	0	8	12	10	14	12	0	1	0	0	4	0	8	0
July	5.2	SE.	24	S.	0	2	5	6	8	5	1	1	3	0	6	9	16	11	8	0	0	0	0	8	0	10	0
August	5.0	SE.	22	NE.	0	0	6	2	10	4	2	4	3	0	7	12	12	9	7	0	0	2	0	11	0	7	0
September	8.6	S.	39	SW.	0	2	2	5	6	10	2	1	2	0	16	10	4	6	4	0	1	0	0	16	1	5	0
October	8.0	NW.	36	NW.	0	2	1	3	3	5	5	4	8	0	20	4	7	3	3	0	0	1	0	0	11	0	0
November	9.2	SE.	41	NW.	1	3	4	1	10	5	1	0	6	0	7	10	13	13	11	2	0	0	1	0	17	0	0
December	10.1	NW.	38	NW.	0	3	5	3	2	3	6	2	7	0	7	6	18	10	8	4	0	0	5	0	21	0	0
Year	7.6	SE.	41	NW.	1	23	45	42	76	52	34	32	61	0	116	105	144	120	86	25	3	3	37	40	118	44	0

* Record of winds is for 8 p. m. only.

COLUMBIA, S. C.

[H=— ft.; h_t=5 ft.; h_r=3 ft.; h_a=— ft.]

January	.....	SW.	....	.....	....	2	3	2	3	3	7	5	6	0	6	11	14	13	11	0	0	1	1	0	6	1	0
February	.....	W.	....	.....	....	6	4	2	2	1	0	10	3	0	14	4	10	8	7	5	0	0	2	0	18	0	0
March	.....	W.	....	.....	....	5	1	3	2	2	7	9	2	0	8	8	15	12	12	0	0	0	0	0	2	3	0
April	.....	SE.	....	.....	....	5	3	1	6	2	3	5	5	0	8	12	10	12	11	0	0	0	0	0	0	5	0
May	.....	S.	....	.....	....	0	6	3	3	7	2	4	5	1	14	11	6	11	11	0	0	0	0	5	0	8	0
June	.....	NE.	....	.....	....	2	8	0	5	7	7	0	1	0	8	16	6	11	10	0	0	0	0	18	0	5	0
July	.....	SW.	....	.....	....	1	4	1	4	5	12	1	3	0	8	18	5	10	9	0	0	0	0	20	0	4	0
August	.....	SW.	....	.....	....	0	5	2	6	6	8	2	1	1	10	11	10	15	14	0	0	0	0	20	0	11	0
September	.....	NE.	....	.....	....	2	10	2	0	3	6	2	4	1	15	11	4	5	3	0	0	0	0	17	0	1	0
October	.....	NE.	....	.....	....	7	12	1	1	0	6	0	4	0	17	8	6	3	3	0	0	0	0	1	0	1	0
November	.....	NE.	....	.....	....	4	9	1	0	2	4	1	8	1	10	9	11	8	7	0	0	3	0	0	2	1	0
December	.....	SW.	....	.....	....	3	8	1	2	0	10	1	6	0	16	6	9	8	7	0	0	1	0	0	13	0	0
Year	.....	NE.	....	.....	....	37	73	19	34	38	72	40	48	4	134	125	106	116	105	5	0	5	3	81	41	40	0

COLUMBUS, OHIO.

[H=824 ft.; h_t=87 ft.; h_r=81 ft.; h_a=93 ft.]

January	8.4	SW.	32	E.	0	4	5	7	7	11	16	9	3	0	2	13	16	18	13	12	0	1	13	0	28	1	0
February	7.5	SW.	26	S.	0	6	2	3	2	9	16	11	6	1	10	11	7	10	4	7	0	1	15	0	25	0	0
March	8.6	SW.	28	SW.	0	7	11	3	4	7	15	5	10	0	9	9	13	14	8	6	1	2	3	0	22	1	0
April	7.9	N.	26	E.	0	15	8	9	8	3	8	5	4	0	9	13	8	11	7	0	0	0	0	0	2	2	0
May	6.5	SW.	25	NW.	0	4	7	4	11	12	13	7	4	0	11	14	6	8	6	0	1	0	0	4	0	6	0
June	5.9	NE.	34	W.	0	9	11	9	5	7	11	3	4	1	13	13	4	9	8	0	0	0	0	8	0	3	0
July	5.5	SW.	23	SE.	0	5	14	6	2	4	15	5	9	2	5	21	5	10	5	0	0	0	0	9	0	3	0
August	5.5	SW.	25	NW.	0	5	5	7	7	13	8	8	8	1	8	17	6	11	7	0	0	0	0	10	0	5	0
September	6.0	SW.	25	NE.	0	4	3	10	9	13	6	11	4	0	11	11	8	6	6	0	1	0	0	9	0	4	0
October	6.4	NW.	26	NW.	0	8	3	3	9	5	11	7	16	0	10	12	9	5	5	0	0	0	0	0	6	0	0
November	6.7	SE.	38	SW.	0	9	2	16	9	8	5	6	5	0	4	12	14	13	9	1	0	1	1	0	15	0	0
December	8.0	SE.	29	NW.	0	4	1	3	20	11	11	3	9	0	3	8	20	15	12	7	0	0	9	0	21	0	0
Year	6.9	SW.	38	SW.	0	80	72	80	93	103	135	80	82	5	95	154	116	130	90	33	3	5	41	40	119	25	0

CONCORDIA, KANS.

[H=1,410 ft.; h_t=42 ft.; h_r=34 ft.; h_a=47 ft.]

January	7.4	N.	30	N.	0	18	4	2	7	15	4	7	3	2	17	8	6	5	1	3	0	0	16	0	30	0	0
February	8.3	N.	30	N.	0	17	1	4	1	13	2	4	11	3	11	9	8	11	4	8	0	2	14	0	22	0	0
March	9.3	S.	34	NE.	0	10	9	2	3	12	11	5	7	3	19	6	6	5	4	5	0	0	4	1	19	0	0
April	9.8	SE.	37	N.	0	15	2	5	16	9	6	2	4	1	18	7	5	6	4	0	0	0	0	0	1	6	0
May	10.3	S.	42	S.	1	7	9	3	8	20	10	3	2	0	15	14	2	9	7	0	0	0	0	6	0	6	0
June	7.4	S.	30	S.	0	8	6	4	12	19	3	2	5	1	9	15	6	7	7	0	0	0	0	4	0	3	0
July	6.4	S.	23	SW.	0	6	5	4	11	19	8	3	3	3	9	16	6	12	6	0	1	0	0	14	0	6	0
August	6.4	S.	34	S.	0	8	6	3	6	23	5	2	4	5	17	8	6	8	8	0	0	1	0	10	0	9	0
September	9.1	S.	34	S.	0	8	2	2	4	30	4	3	3	4	23	4	3	4	3	0	0	1	0	18	1	2	0
October	6.1	N.	24	S.	0	15	1	4	3	13	9	6	9	2	26	1	4	4	3	0	0	0	0	0	6	1	0
November	8.8	S.	35	S.	0	9	6	1	2	19	9	4	7	3	13	8	9	5	4	1	0	0	4	0	18	0	0
December	7.5	N.	30	S.	0	18	2	1	1	10	8	12	8	2	17	7	7	2	0	1	0	0	3	0	25	0	0
Year	8.1	S.	42	S.	1	139	53	35	74	202	79	53	66	29	194	103	68	78	51	18	1	4	41	53	122	33	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

CORPUS CHRISTI, TEX.

[λ=27° 49′ N.; φ=97° 25′ W.; gravity corr., −0.04.]

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	30.03	30.47	29.59	51.5	59.7	64.9	49.7	57.3	80	32	48	55	89	85	.374	.458	0.31	0.18	6.1	4.3	6.9
February	30.20	30.66	29.75	42.4	49.4	52.8	40.7	46.8	75	16	38	44	85	82	.271	.324	3.49	1.39	5.2	5.0	6.1
March	30.03	30.40	29.70	60.1	64.3	68.1	57.5	62.8	78	38	57	60	89	86	.486	.534	1.43	.74	6.7	5.6	7.3
April	29.97	30.26	29.73	66.8	72.6	76.2	64.4	70.3	88	51	60	63	80	74	.553	.592	2.41	2.40	3.7	3.6	4.8
May	29.93	30.30	29.68	73.4	75.7	78.3	70.3	74.3	85	58	69	70	87	84	.730	.761	5.57	2.62	6.8	6.1	7.2
June	29.98	30.12	29.84	78.7	82.0	85.2	75.7	80.4	90	70	75	75	88	79	.860	.864	3.80	1.58	3.8	3.9	5.9
July	29.99	30.09	29.80	80.0	83.1	86.8	77.3	82.0	89	76	77	77	90	81	.919	.917	.00	.00	1.5	1.3	4.4
August	29.94	30.11	29.80	79.3	83.3	87.4	76.7	82.0	93	73	76	76	90	79	.892	.898	1.17	.94	2.4	3.1	4.5
September	29.99	30.18	29.82	77.7	81.9	84.3	75.5	79.9	88	62	74	74	89	78	.855	.853	1.68	1.20	3.3	3.7	5.5
October	30.06	30.24	29.77	66.0	73.9	77.6	64.0	70.8	90	53	60	64	82	74	.542	.621	1.08	.64	3.0	2.5	3.8
November	30.12	30.39	29.84	57.7	63.8	68.0	55.1	61.6	80	38	54	58	89	82	.453	.504	4.14	2.67	5.4	5.8	6.6
December	30.13	30.51	29.72	52.5	59.0	63.9	49.9	56.9	75	28	47	51	83	74	.365	.397	.64	.48	4.9	4.0	4.8
Year	30.03	30.66	29.59	65.5	70.7	74.5	63.1	68.8	93	16	61	64	87	80	.608	.644	25.72	2.67	4.4	4.1	5.6

DAVENPORT, IOWA.

[λ=41° 30′ N.; φ=90° 38′ W.; gravity corr., −0.01.]

January	29.37	30.02	28.59	10.8	18.7	24.4	6.4	15.4	54	−13	6	12	80	75	.065	.087	1.27	0.84	5.0	3.7	5.6
February	29.49	29.90	28.81	8.9	19.6	23.9	6.4	15.2	64	−20	5	13	82	74	.069	.098	.38	.26	5.3	3.3	5.0
March	29.36	29.72	28.85	29.0	37.8	43.9	25.4	34.6	82	6	19	20	66	51	.107	.114	1.57	1.28	6.1	4.9	5.4
April	29.32	29.60	28.79	47.2	58.0	63.6	43.2	53.4	87	30	36	38	67	51	.224	.242	.32	.14	5.2	5.9	5.5
May	29.32	29.68	29.02	57.2	65.9	72.7	52.5	62.6	90	34	47	47	70	54	.356	.356	2.28	1.28	4.7	5.4	5.1
June	29.36	29.58	29.12	68.3	77.8	83.5	62.7	73.1	92	54	57	55	69	48	.481	.452	1.22	.57	5.7	6.1	5.1
July	29.34	29.57	29.03	67.8	77.1	83.9	62.9	73.4	96	52	58	58	71	55	.494	.505	5.16	2.04	5.2	5.6	5.6
August	29.28	29.55	29.06	68.1	78.7	85.5	64.5	75.0	94	55	59	59	74	54	.516	.522	4.79	4.36	4.8	3.9	4.7
September	29.33	29.66	28.98	62.9	70.6	78.6	59.6	69.1	92	34	57	58	80	66	.495	.522	4.30	2.03	3.6	3.2	3.8
October	29.42	29.79	28.93	39.7	49.3	57.2	37.6	47.4	74	20	31	32	72	53	.185	.199	.81	.49	3.7	2.2	3.2
November	29.43	29.73	29.00	32.9	38.1	42.4	30.5	36.4	70	9	27	28	79	70	.152	.163	2.50	.81	7.2	6.5	6.9
December	29.32	29.75	28.62	26.3	29.9	34.3	23.3	28.8	55	2	22	25	83	80	.128	.142	2.54	1.05	7.4	6.5	7.2
Year	29.36	30.02	28.59	43.3	51.8	57.8	39.6	48.7	96	−20	35	37	74	61	.273	.284	27.14	4.36	5.3	4.8	5.3

DENVER, COLO.

[λ=39° 45′ N.; φ=105° 0′ W.; gravity corr., −0.01.]

January	24.59	25.02	24.28	23.9	30.7	39.4	17.5	28.4	62	−7	8	18	54	60	.065	.100	0.32	0.17	4.3	4.3	4.5
February	24.75	25.08	24.46	19.7	31.1	37.9	15.2	26.6	63	−15	13	10	74	47	.090	.077	.48	.25	3.1	5.2	4.9
March	24.65	25.08	24.23	28.7	44.7	49.0	25.5	37.2	76	−1	14	24	56	51	.083	.136	1.19	.80	3.8	3.6	4.1
April	24.70	25.10	24.20	38.8	58.8	63.1	36.5	49.8	76	22	27	15	62	24	.145	.095	1.19	1.07	2.8	5.4	4.5
May	24.68	25.03	24.11	46.4	63.1	67.7	43.5	55.6	92	33	32	26	59	32	.182	.151	2.86	1.60	3.4	5.9	4.9
June	24.80	25.02	24.50	52.4	68.5	73.8	49.7	61.8	90	40	40	38	64	38	.250	.240	2.65	1.16	3.6	5.8	5.0
July	24.83	25.03	24.58	58.2	73.3	79.2	55.6	67.4	95	45	46	46	67	45	.318	.324	4.28	1.62	4.0	6.2	5.1
August	24.82	25.01	24.54	58.8	76.3	83.0	57.3	70.2	94	51	47	46	66	38	.323	.326	.76	.31	3.5	5.5	4.4
September	24.76	25.13	24.35	51.9	73.4	80.9	50.3	65.6	96	27	34	31	52	24	.196	.179	.98	.96	2.7	3.4	2.6
October	24.85	25.08	24.60	37.7	55.0	65.2	36.2	50.7	80	21	28	26	71	36	.160	.147	1.13	.89	3.0	3.4	3.6
November	24.71	25.04	24.27	29.7	41.2	50.0	25.6	37.8	75	2	12	14	51	39	.074	.087	.27	.22	4.2	4.4	4.7
December	24.67	25.02	24.15	27.4	36.0	46.2	21.8	34.0	69	5	8	10	46	37	.065	.073	.01	.01	2.7	3.5	4.0
Year	24.73	25.13	24.11	39.5	54.3	61.3	36.2	48.8	96	−15	26	25	60	39	.163	.161	16.12	1.62	3.4	4.7	4.4

DES MOINES, IOWA.

[λ=41° 35′ N.; φ=93° 37′ W.; gravity corr., −0.01.]

January	29.13	29.83	28.54	11.6	20.2	26.5	6.9	16.7	64	−14	7	11	80	65	.070	.080	1.30	1.00	5.5	3.4	4.8
February	29.26	29.70	28.70	12.1	24.1	29.3	9.2	19.2	64	−18	6	15	76	68	.075	.108	.60	.33	4.9	4.0	6.1
March	29.11	29.47	28.53	29.1	40.8	46.0	25.2	35.9	88	3	18	22	61	51	.105	.124	.50	.28	3.9	3.6	5.1
April	29.05	29.33	28.50	47.2	61.9	66.5	44.4	55.4	85	27	38	40	72	47	.238	.254	3.41	1.46	4.2	4.6	5.0
May	29.04	29.43	28.62	56.7	67.0	73.1	52.3	62.7	94	35	47	47	72	52	.356	.354	2.86	1.45	5.2	4.2	5.8
June	29.11	29.31	28.83	64.7	74.6	80.5	60.5	70.5	89	50	57	56	78	56	.479	.471	5.26	2.53	5.5	4.6	6.2
July	29.09	29.37	28.79	66.1	78.6	83.0	62.4	72.7	98	48	59	60	78	53	.507	.526	3.10	1.93	4.5	3.1	4.3
August	29.04	29.34	28.86	65.9	78.4	84.9	62.7	73.8	95	51	59	59	80	53	.519	.510	3.57	2.19	4.3	3.7	3.5
September	29.06	29.46	28.65	62.0	71.2	79.9	58.9	69.4	94	32	54	56	77	60	.461	.499	3.20	1.84	3.2	2.3	3.3
October	29.18	29.56	28.73	38.8	51.6	59.8	36.5	48.2	75	15	28	30	67	44	.164	.177	.29	.17	2.5	2.1	2.9
November	29.16	29.50	28.80	31.2	38.7	44.3	28.4	36.4	74	2	25	27	76	64	.141	.156	.85	.49	6.5	5.8	6.8
December	29.08	29.49	28.53	23.5	28.7	34.8	19.6	27.2	57	0	17	20	75	70	.102	.116	1.86	1.28	6.7	5.0	6.3
Year	29.11	29.83	28.50	42.4	53.0	59.1	38.9	49.0	98	−18	35	37	74	57	.268	.281	26.80	2.53	4.7	3.9	5.0

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

CORPUS CHRISTI, TEX.

[H = 20 ft.; h_t = 42 ft.; h_r = 34 ft.; h_a = 50 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	11.7	N.	36	NW.	0	17	8	7	17	0	2	4	6	1	5	6	20	6	4	0	0	2	0	0	0	0	0
February	12.3	NW.	42	NW.	2	12	8	8	10	1	1	2	14	0	7	9	12	7	6	1	0	3	2	0	8	1	0
March	11.9	SE.	38	NW.	0	8	7	12	26	3	0	2	4	0	2	9	20	10	8	0	0	4	0	0	0	0	0
April	13.4	SE.	37	SE.	0	3	2	6	38	1	1	1	7	1	10	13	7	3	2	0	1	1	0	0	0	1	0
May	14.2	SE.	47	SE.	2	9	3	3	46	0	0	0	1	0	0	16	15	9	5	0	0	0	0	0	0	5	0
June	12.8	SE.	34	SE.	0	4	3	1	45	3	1	1	2	0	3	21	6	7	5	0	0	0	0	0	0	2	0
July	14.8	SE.	29	SE.	0	0	0	0	61	1	0	0	0	0	9	22	0	0	0	0	0	0	0	0	0	0	0
August	13.8	SE.	44	E.	1	1	3	5	41	6	5	0	0	1	12	13	6	4	3	0	0	0	0	5	0	1	0
September	11.6	SE.	36	N.	0	14	4	2	33	1	2	1	1	2	6	18	6	7	4	0	0	0	0	0	0	3	0
October	10.4	N.	31	NE.	0	19	8	7	18	4	2	3	1	0	16	10	5	6	4	0	0	2	0	0	0	1	0
November	9.8	SE.	28	NW.	0	9	10	2	16	5	1	4	13	0	7	5	18	12	10	0	0	2	0	0	0	0	0
December	11.1	SE.	41	NW.	1	7	12	2	22	3	6	2	8	0	11	14	6	5	3	0	0	2	0	0	2	0	0
Year	12.3	SE.	47	SE.	6	103	68	55	373	28	21	20	57	5	88	156	121	76	54	1	1	16	2	5	10	14	0

DAVENPORT, IOWA.

[H = 613 ft.; h_t = 100 ft.; h_r = 93 ft.; h_a = 108 ft.]

Month.	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.
January	10.3	SW.	54	SW.	1	3	4	8	2	4	20	15	6	0	7	12	12	12	6	10	0	1	22	0	31	2	0
February	10.0	W.	32	W.	0	3	2	3	2	1	13	21	11	0	12	9	7	4	3	3	0	0	20	0	24	0	0
March	12.4	SW.	42	NW.	1	4	13	6	3	5	16	5	10	0	12	7	12	7	3	5	0	0	7	0	23	2	0
April	10.7	NE.	42	SE.	2	4	15	13	8	3	7	4	6	0	9	12	9	5	2	0	0	0	0	0	2	2	0
May	10.3	SW.	45	SW.	3	2	8	8	6	14	14	3	7	0	8	17	6	9	6	0	0	0	0	0	0	4	0
June	8.2	SW.	35	E.	0	1	4	9	6	8	14	7	10	1	10	15	5	6	5	0	0	0	0	5	0	7	0
July	7.2	SW.	60	W.	3	4	9	7	6	8	16	5	7	0	5	20	6	12	10	0	1	0	0	3	0	10	0
August	6.7	SW.	26	SW.	0	3	5	7	3	16	10	13	5	0	11	15	5	4	4	0	1	0	0	8	0	2	0
September	9.5	SW.	48	SW.	1	0	5	3	10	18	15	4	5	0	16	9	5	11	10	0	0	0	0	3	0	7	0
October	9.1	SW.	38	W.	0	5	2	8	2	7	16	11	7	4	18	9	4	5	3	0	0	1	0	0	8	0	0
November	9.8	NW.	27	SE.	0	6	8	5	9	9	5	9	9	0	6	8	16	10	7	5	0	0	7	0	16	0	0
December	9.8	SW.	36	W.	0	4	7	7	4	6	13	11	10	0	2	13	16	14	11	8	0	1	11	0	26	0	0
Year	9.5	SW.	60	W.	11	39	82	84	61	99	159	108	93	5	116	146	103	99	70	31	2	3	67	19	130	36	0

DENVER, COLO.

[H = 5309 ft.; h_t = 83 ft.; h_r = 74 ft.; h_a = 151 ft.]

Month.	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.
January	7.8	S.	37	NW.	0	6	6	2	8	15	11	3	11	0	11	16	4	4	3	4	0	0	10	0	28	0	0
February	8.6	NW.	37	NW.	0	3	12	1	5	7	6	6	16	0	11	9	8	9	3	9	0	0	9	0	22	0	0
March	8.8	NW.	48	NE.	2	9	5	1	0	8	10	7	22	0	16	11	4	6	5	6	0	0	5	0	24	1	0
April	8.5	S.	37	NW.	0	3	12	7	3	17	6	5	7	0	13	12	5	7	2	3	0	0	0	0	7	2	0
May	8.1	NW.	37	NW.	0	6	10	3	4	15	5	7	12	0	10	16	5	11	9	1	0	0	0	2	0	1	0
June	7.3	S.	34	NE.	0	3	7	5	10	10	13	3	7	2	9	15	6	12	9	0	0	0	0	1	0	7	0
July	6.4	S.	36	SW.	0	4	7	2	8	16	6	3	16	0	10	12	9	14	9	0	0	1	0	6	0	12	0
August	6.3	S.	33	NW.	0	7	7	4	3	19	5	4	13	0	10	17	4	8	5	0	0	0	0	6	0	8	0
September	6.8	S.	32	NW.	0	4	9	7	8	13	7	4	8	0	21	9	0	3	1	1	0	0	0	7	2	2	0
October	6.7	S.	36	NE.	0	6	7	2	10	19	2	4	12	0	17	11	3	4	3	1	0	0	0	0	7	0	0
November	8.0	S.	40	NE.	3	5	10	3	6	17	4	11	4	0	10	17	3	2	2	2	0	0	4	0	21	0	0
December	9.8	S.	60	NW.	2	4	6	3	8	19	5	1	16	0	12	18	1	1	0	1	0	1	4	0	28	0	0
Year	7.8	S.	60	NW.	7	60	98	40	73	175	80	58	144	2	150	163	52	81	51	28	0	2	32	22	139	33	0

DES MOINES, IOWA.

[H = 869 ft.; h_t = 84 ft.; h_r = 75 ft.; h_a = 88 ft.]

Month.	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.
January	8.5	NW.	38	NW.	0	12	2	3	9	5	5	7	18	1	11	11	9	7	6	6	0	0	21	0	30	0	0
February	8.6	NW.	33	NW.	0	12	2	4	2	3	5	10	18	0	6	9	13	9	4	5	0	0	15	0	23	0	0
March	10.6	NW.	32	SW.	0	7	8	9	6	3	4	13	12	0	13	9	9	9	3	6	0	0	9	0	22	1	0
April	9.2	SE.	36	S.	0	10	12	8	10	6	5	3	5	1	10	10	10	9	4	1	1	0	0	0	2	3	0
May	10.1	S.	50	SW.	2	6	3	4	8	16	11	6	8	0	8	10	13	13	9	0	0	0	0	2	0	7	0
June	7.1	SW.	38	E.	0	9	1	4	9	16	6	4	11	0	7	10	13	13	12	0	1	0	0	0	0	10	2
July	6.6	SW.	31	SW.	0	11	6	4	12	7	15	2	4	1	11	16	4	11	6	0	0	0	0	2	0	8	0
August	6.7	SW.	29	S.	0	13	6	1	3	14	14	4	6	1	19	7	5	10	5	0	0	0	0	7	0	10	0
September	10.1	SW.	37	SW.	0	6	2	2	10	15	14	4	6	1	16	9	5	6	5	0	2	0	0	5	1	4	0
October	7.8	NW.	28	NW.	0	6	5	3	6	5	11	5	21	0	21	5	5	3	2	0	0	1	0	0	11	1	0
November	9.3	N.	30	SW.	0	10	9	3	10	9	9	3	7	0	6	7	17	9	4	3	0	0	8	0	18	0	1
December	8.3	NW.	28	NW.	0	16	1	1	4	6	10	9	15	0	10	5	16	7	4	5	0	0	14	0	29	1	0
Year	8.6	NW.	50	SW.	2	118	57	46	89	105	109	70	131	5	138	108	119	106	64	26	4	1	67	16	136	45	3

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

DETROIT, MICH.

[λ = 42° 20′ N.; φ = 83° 3′ W.; gravity corr., —0.01.]

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	29.18	29.80	28.39	17.5	20.8	26.4	13.6	20.0	49	— 4	14	16	83	81	.088	.096	2.76	0.84	6.9	5.7	6.3
February	29.26	29.70	28.57	13.4	20.2	24.4	11.4	17.9	52	— 8	9	14	82	76	.074	.092	.22	.07	4.6	5.5	4.6
March	29.24	29.62	28.72	24.8	30.1	36.1	20.9	28.5	62	2	19	20	78	64	.107	.107	1.69	1.23	6.0	4.1	5.4
April	29.24	29.78	28.81	43.5	50.5	58.1	39.2	48.6	80	25	35	37	73	62	.210	.226	1.31	.69	4.1	5.3	4.4
May	29.25	29.53	28.85	56.7	61.8	69.5	49.6	59.6	95	33	47	48	71	62	.353	.357	2.61	1.25	3.7	3.8	4.0
June	29.29	29.62	29.03	68.4	73.4	80.9	61.5	71.2	96	46	57	54	67	54	.467	.432	.55	.17	3.5	3.2	3.5
July	29.23	29.55	28.92	65.4	72.5	80.2	60.6	70.4	93	48	54	54	67	54	.427	.427	3.30	1.02	5.2	4.1	5.0
August	29.18	29.38	28.89	66.5	73.1	80.7	61.6	71.2	92	51	57	58	74	61	.481	.494	1.97	.82	3.5	3.2	3.5
September	29.26	29.52	28.85	61.9	67.3	75.2	58.2	66.7	94	36	54	53	77	61	.448	.429	1.15	.63	4.2	2.8	3.9
October	29.26	29.74	28.81	40.2	47.2	53.6	37.2	45.4	70	23	32	32	74	56	.188	.183	.56	.42	3.7	2.8	4.3
November	29.33	29.69	28.57	34.2	38.2	43.8	31.9	37.8	68	11	29	32	81	79	.167	.190	4.19	1.44	5.8	6.4	6.0
December	29.23	29.71	28.57	28.1	30.6	34.8	24.5	29.6	59	7	25	26	88	83	.147	.155	4.73	1.09	5.4	7.4	6.8
Year	29.25	29.80	28.39	43.4	48.8	55.3	39.2	47.2	96	— 8	36	37	76	66	.263	.266	25.04	1.44	4.7	4.5	4.8

DODGE CITY, KANS.

[λ = 37° 45′ N.; φ = 100° 0′ W.; gravity corr., — 0.02.]

January	27.36	27.99	26.90	19.9	29.0	36.7	17.1	26.9	65	2	15	19	80	67	.089	.110	0.58	0.30	4.4	4.6	5.0
February	27.52	27.97	27.12	17.2	28.0	36.6	14.2	25.4	69	—14	12	16	78	62	.096	.111	2.26	2.12	4.6	4.4	5.0
March	27.36	27.78	26.94	32.4	47.2	56.2	29.6	42.9	90	2	21	22	63	42	.112	.121	1.31	1.14	3.7	4.4	3.9
April	27.31	27.75	26.62	47.6	62.8	71.1	43.0	57.0	90	29	37	36	69	42	.233	.231	.91	.72	3.4	4.8	3.9
May	27.32	27.77	26.80	55.8	72.5	78.5	51.2	64.8	99	35	43	37	63	30	.298	.235	.97	.70	3.6	3.8	3.9
June	27.42	27.66	27.14	63.4	75.0	81.5	58.4	70.0	98	47	56	56	78	54	.458	.454	5.32	2.92	4.2	5.7	4.3
July	27.41	27.64	27.12	67.0	79.5	84.2	63.8	74.0	97	53	62	62	85	57	.564	.555	4.84	1.83	4.8	4.6	4.2
August	27.38	27.63	27.18	66.6	79.9	87.5	63.8	75.6	98	57	61	62	84	57	.546	.559	2.42	.92	3.7	3.3	3.5
September	27.38	27.85	27.05	61.9	77.0	86.0	59.4	72.7	100	30	50	49	66	39	.393	.373	.06	.06	2.0	2.2	2.3
October	27.51	27.80	27.21	41.8	55.9	65.9	39.6	52.8	82	26	33	32	71	43	.196	.192	1.09	.56	2.7	2.5	3.0
November	27.43	27.76	26.91	31.7	42.7	53.3	29.4	41.4	75	10	27	29	81	61	.149	.168	.34	.26	3.7	3.5	3.6
December	27.41	27.77	26.88	24.3	34.5	45.5	22.1	33.8	68	3	20	20	84	54	.109	.107	.21	.10	3.7	3.2	3.8
Year	27.40	27.99	26.62	44.1	57.0	65.2	41.0	53.1	100	—14	36	37	75	51	.270	.268	20.31	2.92	3.7	3.9	3.9

DULUTH, MINN.

[λ = 46° 47′ N.; φ = 92° 6′ W.; gravity corr., 0.]

January	29.22	29.94	28.55	4.0	10.0	15.4	0.3	7.8	32	—20	1	5	86	79	.050	.059	0.75	0.33	5.1	4.7	4.9
February	29.29	29.81	28.39	6.3	16.1	21.2	4.0	12.6	58	—27	4	10	88	76	.066	.080	.48	.11	5.2	3.7	4.8
March	29.21	29.61	28.66	17.2	26.8	31.5	15.1	23.3	52	—14	12	14	80	58	.087	.087	.48	.47	3.8	3.2	4.2
April	29.26	29.53	28.88	38.3	42.5	47.7	35.9	41.8	65	24	33	32	80	70	.186	.186	.73	.38	4.9	5.6	5.3
May	29.16	29.55	28.66	47.9	51.7	59.1	41.4	50.2	81	32	40	41	76	70	.257	.268	2.13	.43	5.1	5.0	6.2
June	29.21	29.43	28.82	55.3	60.4	65.7	49.1	57.4	84	44	50	50	83	72	.359	.370	4.62	1.07	5.5	5.2	6.2
July	29.21	29.47	28.78	59.8	65.1	70.2	54.6	62.4	89	45	53	54	81	70	.413	.423	3.03	.69	5.0	4.5	4.5
August	29.13	29.45	28.86	61.3	68.2	73.2	57.7	65.4	85	46	54	54	76	62	.416	.419	1.67	.48	3.6	5.1	5.0
September	29.11	20.52	28.54	54.6	58.3	64.6	50.5	57.6	85	36	48	48	78	72	.347	.348	5.96	2.21	5.9	4.8	5.8
October	29.20	29.63	28.66	37.3	42.5	49.0	35.0	42.0	70	18	29	30	71	64	.162	.176	.09	.04	5.4	4.3	5.3
November	29.26	29.68	28.74	25.0	30.5	35.2	22.9	29.0	58	— 1	20	24	81	78	.121	.138	1.65	.73	6.2	5.3	6.5
December	29.14	29.59	28.45	17.5	21.1	25.7	13.8	19.8	40	— 7	13	16	81	79	.089	.098	.71	.44	5.4	5.9	5.9
Year	29.20	29.94	28.39	35.4	41.1	46.5	31.7	39.1	89	—27	30	32	80	71	.213	.221	22.30	2.21	5.1	4.8	5.4

EAST CLALLAM, WASH.

[λ = 48° 14′ N.; φ = 124° 13′ W.; gravity corr., —.]

January	.....	.....	.....	.....	.....	41.6	32.5	37.0	54	26	.....	.....	.....	.....	.....	.....	15.44	3.10	.....	.....	.....
February	.....	.....	.....	.....	.....	47.8	39.0	43.4	57	31	.....	.....	.....	.....	.....	.....	5.96	1.11	.....	.....	.....
March	.....	.....	.....	.....	.....	49.1	35.3	42.2	57	24	.....	.....	.....	.....	.....	.....	12.40	2.52	.....	.....	.....
April	.....	.....	.....	.....	.....	52.3	38.0	45.2	69	32	.....	.....	.....	.....	.....	.....	10.38	1.81	.....	.....	.....
May	.....	.....	.....	.....	.....	59.6	42.5	51.0	83	35	.....	.....	.....	.....	.....	.....	7.97	1.80	.....	.....	.....
June	.....	.....	.....	.....	.....	61.3	46.0	53.6	75	38	.....	.....	.....	.....	.....	.....	.40	.13	.....	.....	.....
July	.....	.....	.....	.....	.....	64.3	47.0	55.6	93	40	.....	.....	.....	.....	.....	.....	1.24	.73	.....	.....	.....
August	.....	.....	.....	.....	.....	61.2	46.0	53.6	71	38	.....	.....	.....	.....	.....	.....	.18	.10	.....	.....	.....
September	.....	.....	.....	.....	.....	58.1	44.8	51.4	67	32	.....	.....	.....	.....	.....	.....	2.57	.50	.....	.....	.....
October	.....	.....	.....	.....	.....	56.3	42.0	49.2	69	31	.....	.....	.....	.....	.....	.....	.81	.28	.....	.....	.....
November	.....	.....	.....	.....	.....	49.3	38.7	44.0	63	28	.....	.....	.....	.....	.....	.....	7.50	1.15	.....	.....	.....
December	.....	.....	.....	.....	.....	45.3	35.7	40.5	57	26	.....	.....	.....	.....	.....	.....	25.50	3.32	.....	.....	.....
Year	.....	.....	.....	.....	.....	53.8	40.6	47.2	93	24	.....	.....	.....	.....	.....	.....	90.35	3.32	.....	.....	.....

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

DETROIT, MICH.

[H = 724 ft.; h_t = 158 ft.; h_r = 144 ft.; h_a = 161 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	12.8	SW.	48	SW.	2	1	7	3	3	1	26	14	7	0	9	6	16	15	11	13	0	3	22	0	30	0	0
February	12.8	NW.	60	SW.	1	2	3	0	0	1	19	11	20	0	11	10	7	7	3	6	0	0	19	0	26	0	2
March	12.5	NE.	42	W.	2	3	19	3	5	1	15	6	9	1	11	8	12	10	7	6	0	0	11	0	29	0	0
April	10.3	NE.	37	SW.	0	2	22	6	9	1	7	3	8	2	14	7	9	10	6	1	1	3	0	0	6	1	0
May	10.1	SW.	43	SW.	1	3	7	4	12	1	26	2	6	1	17	5	9	11	10	0	0	0	0	2	0	6	0
June	8.7	SW.	37	NW.	0	5	8	8	8	4	12	8	7	0	19	5	6	7	5	0	0	0	0	3	0	3	0
July	8.3	SW.	32	W.	0	2	13	8	3	3	13	5	15	0	10	16	5	7	7	0	0	0	0	3	0	6	0
August	8.2	SW.	29	W.	0	4	14	5	3	3	18	5	10	0	16	14	1	8	6	0	0	0	0	2	0	3	0
September	10.5	SW.	36	W.	0	0	8	4	6	6	21	4	10	1	16	6	8	6	4	0	0	3	0	3	0	3	0
October	12.8	SW.	38	NW.	0	3	5	1	1	2	22	17	11	0	13	10	8	5	4	1	0	2	0	0	7	1	2
November	10.9	SW.	76	SW.	1	9	1	1	1	11	21	3	12	1	10	5	15	13	11	7	0	9	3	0	16	0	0
December	11.9	SW.	36	SW.	0	3	5	1	5	4	30	5	9	0	9	5	17	17	14	8	0	6	16	0	22	0	0
Year	10.8	SW.	76	SW.	7	37	112	44	56	38	230	83	124	6	155	97	113	116	88	42	1	26	71	13	136	23	4

DODGE CITY, KANS.

[H = 2,504 ft.; h_t = 44 ft.; h_r = 36 ft.; h_a = 52 ft.]

January	10.2	NE.	40	NW.	1	9	12	3	10	6	6	3	12	1	11	12	8	10	4	9	0	2	12	0	28	0	0
February	10.0	NW.	44	NW.	2	16	10	2	6	8	2	3	9	0	11	9	8	7	4	5	0	2	14	0	22	0	0
March	12.8	S.	51	S.	4	12	11	1	7	15	4	4	8	0	16	11	4	4	2	4	0	0	3	0	17	2	0
April	15.5	SE.	64	NW.	5	14	2	2	15	10	4	3	9	1	16	10	4	4	3	2	1	0	0	1	2	3	0
May	14.6	S.	50	S.	6	12	9	2	12	18	0	6	2	1	13	15	3	5	3	0	0	0	0	5	0	2	0
June	12.4	SE.	43	S.	2	5	10	5	17	16	0	1	6	0	12	13	5	13	9	0	1	2	0	3	0	12	0
July	10.4	S.	37	NW.	0	5	11	5	16	19	3	3	0	0	15	13	3	9	8	0	0	2	0	11	0	7	0
August	10.2	SE.	43	NW.	1	11	6	2	22	17	1	0	3	0	18	11	2	6	6	0	0	1	0	12	0	3	0
September	15.0	S.	42	SE.	2	7	6	2	21	22	0	0	2	0	23	6	1	1	1	0	0	1	0	17	1	1	0
October	9.2	SE.	33	S.	0	14	7	4	16	9	3	2	5	2	22	4	5	5	5	0	0	1	0	0	5	0	0
November	10.6	NW.	45	S.	3	11	8	1	12	6	4	1	17	0	17	7	6	5	3	3	0	0	4	0	20	0	0
December	10.4	NW.	43	NW.	1	20	8	0	8	3	3	5	15	0	17	11	3	5	2	4	0	0	3	0	28	0	0
Year	11.8	SE.	64	NW.	27	136	100	29	162	149	30	31	88	5	191	122	52	74	50	27	2	11	36	49	123	30	0

DULUTH, MINN.

[H = 702 ft.; h_t = 95 ft.; h_r = 90 ft.; h_a = 106 ft.]

January	7.9	SW.	36	NW.	0	3	2	3	4	3	13	12	21	1	13	8	10	14	5	14	0	0	30	0	31	0	0
February	10.7	NW.	44	NW.	1	8	4	0	0	1	20	4	16	3	11	10	7	9	5	8	0	0	21	0	26	0	5
March	12.7	NW.	46	NE.	2	3	13	0	0	2	15	11	16	2	15	9	7	2	1	2	0	0	14	0	27	0	4
April	11.7	NE.	54	NW.	1	1	40	4	0	1	2	3	4	5	10	11	9	7	4	1	0	1	0	0	7	2	3
May	9.1	NE.	38	NW.	0	6	31	1	0	3	4	3	7	7	6	13	12	14	11	0	0	3	0	0	1	5	0
June	8.4	NE.	45	NW.	1	1	23	6	5	0	7	6	8	4	5	15	10	21	17	0	2	4	0	0	0	12	2
July	8.5	NE.	36	SW.	0	8	25	0	1	2	8	6	11	1	10	18	3	14	11	0	0	4	0	0	0	8	0
August	9.5	NW.	36	SW.	0	2	11	1	1	3	16	10	18	0	10	16	5	12	9	0	0	0	0	0	0	7	2
September	10.7	NE.	35	NE.	0	3	21	2	0	0	15	8	11	0	5	18	7	15	13	0	0	3	0	0	0	6	4
October	10.2	NW.	34	NW.	0	8	5	0	0	2	22	6	18	1	9	14	8	4	1	2	0	0	4	0	13	0	4
November	7.5	SW.	28	NW.	0	6	6	2	2	3	22	5	13	1	7	7	16	11	6	7	0	3	12	0	23	1	2
December	9.9	SW.	46	NW.	2	3	2	3	2	4	23	7	17	1	7	12	12	9	3	6	0	2	22	0	31	0	1
Year	9.7	NE.	54	NW.	7	52	183	22	15	24	167	81	160	26	108	151	106	132	86	40	2	20	103	0	159	41	27

EAST CLALLAM, WASH.

[H = — ft.; h_t = 5 ft.; h_r = 1 ft.; h_a = — ft.]

January	.....	E.	....	.....	....	0	0	19	3	0	0	1	0	8	6	2	23	16	13	....	0	0	0	0	12	0	0
February	.....	E.	....	.....	....	0	0	14	3	1	2	7	1	0	3	5	20	16	14	....	0	0	0	0	1	0	0
March	.....	E.	....	.....	....	0	0	10	5	1	7	3	0	5	10	3	18	20	18	....	0	0	0	0	7	0	0
April	.....	W.	....	.....	....	0	0	8	4	0	2	13	0	3	9	2	19	19	17	....	1	0	0	0	0	0	0
May	.....	SW.	....	.....	....	0	0	4	1	0	12	10	0	4	9	3	19	21	16	....	0	0	0	0	0	0	0
June	.....	W.	....	.....	....	0	0	1	1	1	6	19	0	2	11	4	15	7	3	....	0	1	0	0	0	0	0
July	.....	W.	....	.....	....	0	0	2	1	0	6	11	0	11	19	5	7	7	6	....	0	1	0	1	0	0	0
August	.....	W.	....	.....	....	0	0	1	0	0	9	17	0	4	21	2	8	2	2	....	0	4	0	0	0	0	0
September	.....	SW.	....	.....	....	0	0	5	1	0	11	5	0	8	7	3	20	14	12	....	0	2	0	0	0	0	0
October	.....	Calm. E.	....	.....	....	0	0	9	0	0	2	2	0	18	12	2	17	5	5	....	0	7	0	0	1	0	0
November	.....	Calm. E.	....	.....	....	0	0	8	1	1	5	3	0	12	8	2	20	19	15	....	0	0	0	0	6	0	0
December	.....	E.	....	.....	....	0	0	10	4	1	6	5	0	5	4	3	24	28	26	....	0	0	0	0	7	0	0
Year	.....	W.	....	.....	....	0	0	91	24	5	68	96	1	80	119	36	210	174	147	....	1	15	0	1	34	0	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

EASTPORT, ME.

[λ=44° 54′ N.; φ=66° 59′ W.; gravity corr., 0.]

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	29.89	30.66	29.02	21.4	26.5	30.2	18.7	24.4	47	— 4	14	19	72	72	.093	.116	2.70	0.62	5.0	5.3	6.4
February	29.65	30.24	28.94	19.0	22.7	27.2	14.9	21.0	39	—10	11	13	69	64	.080	.087	1.93	.49	5.9	3.2	5.8
March	29.77	30.35	29.18	25.5	30.0	34.4	22.5	28.4	44	6	17	20	68	66	.102	.112	2.90	1.76	4.4	4.4	6.3
April	29.94	30.62	29.11	38.9	40.1	46.7	34.0	40.4	58	18	30	31	72	71	.172	.177	2.29	.93	5.3	5.0	6.2
May	29.92	30.39	29.61	47.8	48.4	55.9	40.7	48.3	83	32	41	41	78	79	.263	.268	1.29	.39	4.2	3.9	6.4
June	29.99	30.32	29.56	55.5	53.6	63.3	47.7	55.5	85	41	50	49	83	87	.359	.354	1.46	.83	4.2	3.1	6.6
July	29.85	30.06	29.57	57.7	59.3	67.1	51.7	59.4	78	47	52	52	84	78	.396	.388	3.17	.86	2.9	3.3	5.8
August	29.81	30.06	29.46	60.3	60.2	68.9	54.2	61.6	80	49	54	54	80	80	.417	.414	4.83	2.42	3.6	3.5	5.8
September	29.91	30.19	29.44	54.9	55.8	63.8	49.9	56.8	79	40	47	48	76	76	.332	.345	2.00	.90	4.1	3.1	5.1
October	29.89	30.57	29.30	44.2	45.2	50.6	38.8	44.7	69	29	36	36	72	71	.225	.226	1.15	.33	5.5	5.2	6.4
November	30.05	30.57	28.94	38.8	39.9	45.7	33.8	39.8	61	14	33	33	80	76	.200	.204	6.41	1.93	6.4	4.4	7.0
December	29.99	30.67	29.26	28.6	30.7	35.5	24.0	29.8	53	0	22	22	73	70	.137	.134	2.75	.75	6.7	4.4	6.3
Year	29.89	30.67	28.94	41.0	42.7	49.1	35.9	42.5	85	—10	34	35	76	74	.231	.235	32.88	2.42	4.8	4.1	6.2

EL PASO, TEX.

[λ=31° 47′ N.; φ=106° 30′ W.; gravity corr., — 0.03.]

January	26.18	26.62	25.88	36.7	50.6	56.8	34.9	45.8	68	22	24	23	61	37	.132	.130	0.65	0.33	4.5	4.4	5.3
February	26.23	26.63	25.94	32.6	51.7	58.0	30.5	44.2	76	8	19	16	56	26	.107	.096	.17	.13	3.4	3.4	3.9
March	26.17	26.46	25.91	44.9	65.9	71.3	42.8	57.0	82	24	16	3	32	10	.095	.057	.05	.05	2.4	3.7	3.7
April	26.15	26.42	25.88	51.5	74.9	79.2	50.3	64.8	90	31	17	—2	27	6	.109	.052	T.	T.	1.8	1.8	1.9
May	26.12	26.46	25.88	58.6	78.9	84.6	55.6	70.1	98	45	32	22	41	16	.193	.135	2.11	2.07	1.6	2.9	2.6
June	26.18	26.42	25.90	66.7	85.7	91.2	63.8	77.5	98	52	44	35	46	20	.307	.224	.21	.07	2.1	3.5	3.2
July	26.20	26.34	26.01	69.6	85.4	90.8	68.3	79.6	100	62	55	50	64	35	.450	.383	2.48	.76	5.0	5.6	4.7
August	26.19	26.33	26.01	68.2	83.4	90.3	67.1	78.7	95	63	58	53	72	38	.492	.410	2.01	.80	3.8	4.3	3.8
September	26.20	26.46	26.01	64.6	79.7	86.6	63.8	75.2	96	43	53	48	67	37	.406	.355	.28	.12	3.4	4.4	4.4
October	26.25	26.43	26.03	49.7	65.4	73.8	48.6	61.2	83	41	40	38	70	39	.249	.241	.88	.84	3.0	3.0	3.3
November	26.24	26.46	25.98	38.7	54.0	63.2	37.1	50.2	76	28	31	32	75	45	.173	.178	1.05	.38	2.1	1.9	2.7
December	26.26	26.60	25.95	30.8	47.0	56.0	28.8	42.4	68	14	18	14	58	27	.103	.087	.31	.29	1.5	1.8	2.5
Year	26.20	26.63	25.88	51.0	68.6	75.2	49.3	62.2	100	8	34	28	56	28	.235	.196	10.20	2.07	2.9	3.4	3.5

ERIE, PA.

[λ=42° 7′ N.; φ=80° 5′ W.; gravity corr., — 0.01.]

January	29.20	29.74	28.44	21.4	24.0	32.1	16.0	24.0	55	— 5	17	18	82	77	.103	.104	3.51	1.04	9.2	7.1	7.6
February	29.26	29.67	28.60	15.9	19.0	26.3	11.6	19.0	51	— 9	11	13	81	77	.080	.086	1.33	.27	7.1	5.4	6.4
March	29.25	29.64	28.66	25.3	29.2	37.7	20.9	29.3	60	2	20	22	78	74	.110	.119	1.64	.50	6.0	5.5	5.8
April	29.25	29.81	28.71	44.0	46.6	53.7	35.8	44.8	76	23	35	37	73	72	.212	.228	2.09	1.06	5.5	5.4	5.3
May	29.28	29.53	28.86	58.4	60.3	66.8	50.7	58.8	85	32	47	50	67	70	.345	.381	2.58	.71	3.9	4.2	4.8
June	29.32	29.63	29.03	69.9	70.6	76.9	62.1	69.5	91	48	60	60	72	70	.524	.521	1.75	.74	3.7	3.9	4.6
July	29.24	29.56	28.92	67.1	70.1	74.7	60.7	67.7	91	50	56	56	69	64	.464	.472	2.59	.80	3.8	4.5	4.2
August	29.21	29.45	28.97	68.7	70.2	77.6	62.3	70.0	90	49	59	58	72	67	.511	.500	3.30	1.25	5.0	3.7	5.3
September	29.29	29.56	28.92	64.5	65.8	73.6	58.0	65.8	89	37	54	55	70	70	.446	.461	4.01	1.12	6.3	5.1	5.4
October	29.27	29.73	28.83	44.6	46.6	52.3	39.3	45.8	69	23	35	38	70	73	.209	.232	3.40	1.24	6.6	5.2	5.6
November	29.35	29.76	28.66	39.5	41.5	48.2	34.7	41.4	70	17	32	34	76	76	.193	.203	4.37	1.56	7.6	6.9	7.2
December	29.28	29.74	28.54	32.6	34.3	39.0	27.2	33.1	62	9	27	28	79	76	.160	.163	4.98	1.95	8.1	6.6	8.1
Year	29.27	29.81	28.44	46.0	48.2	54.9	39.9	47.4	91	— 9	38	39	74	72	.280	.289	35.55	1.95	6.1	5.3	5.9

EUREKA, CAL.

[λ=40° 48′ N.; φ=124° 11′ W.; gravity corr., — 0.01.]

January	29.87	30.24	29.08	42.8	49.7	53.3	39.5	46.4	70	31	40	43	89	80	.248	.285	9.37	2.20	5.4	5.7	5.5
February	30.07	30.38	29.62	46.2	52.5	55.4	43.4	49.4	66	35	44	47	94	83	.295	.324	3.60	1.77	6.2	5.5	5.6
March	29.99	30.24	29.52	43.9	50.6	54.7	41.1	47.9	75	31	41	43	90	76	.260	.280	5.31	1.86	6.0	6.4	5.8
April	30.06	30.48	29.76	45.7	52.7	56.3	43.4	49.8	69	31	43	45	92	77	.284	.305	2.88	.53	6.1	5.4	5.4
May	30.02	30.33	29.63	49.7	55.5	58.3	47.6	53.0	68	42	46	48	89	76	.318	.336	5.39	2.24	6.2	4.4	5.0
June	30.03	30.31	29.77	48.7	55.4	58.6	47.0	52.8	70	42	47	48	94	78	.325	.340	.06	.04	3.9	4.3	4.2
July	29.97	30.14	29.72	52.7	58.1	61.2	50.9	56.0	66	46	51	52	95	81	.376	.389	.23	.12	6.3	4.2	5.0
August	29.92	30.10	29.76	51.2	56.3	59.1	49.0	54.0	66	45	50	52	97	86	.367	.386	.11	.07	4.3	5.6	5.1
September	29.95	30.21	29.59	50.5	56.8	60.2	47.2	53.7	70	36	49	51	96	81	.351	.377	3.14	2.77	4.1	4.3	4.5
October	29.98	30.22	29.75	49.6	53.3	57.3	46.7	52.0	76	41	48	50	96	88	.337	.355	.05	.03	5.1	6.4	7.3
November	30.06	30.49	29.68	45.0	51.6	56.2	41.4	48.[illegible]	74	32	42	47	91	84	.274	.319	3.88	1.32	2.4	3.3	4.2
December	30.15	30.58	29.64	43.9	50.1	53.5	40.0	46.8	67	30	41	45	90	83	.260	.303	7.50	1.88	4.5	6.2	6.0
Year	30.01	30.58	29.08	47.5	53.6	57.0	44.8	50.9	76	30	45	48	93	81	.308	.333	41.52	2.77	5.0	5.1	5.3

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

EASTPORT, ME.

[H=76 ft.; h_t=69 ft.; h_r=63 ft.; h_a=74 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	12.3	W.	66	SE.	2	4	4	7	4	2	8	12	21	0	7	12	12	15	13	11	0	3	16	0	27	0	1
February	14.0	W.	72	E.	1	12	3	1	4	1	10	13	12	0	7	12	9	12	9	11	0	0	17	0	27	0	6
March	11.5	NW.	42	NW.	1	6	5	3	3	1	16	7	19	2	7	12	12	10	9	6	0	5	10	0	26	0	3
April	11.3	SW.	60	E.	4	5	10	4	1	8	13	7	7	5	5	15	10	10	6	3	0	3	0	0	7	1	6
May	9.5	S.	48	NE.	1	4	8	1	1	19	14	5	4	6	2	22	7	10	10	0	0	9	0	0	0	1	0
June	7.7	S.	30	S.	0	4	13	3	1	24	9	1	2	3	4	14	12	9	7	0	0	10	0	0	0	1	0
July	6.8	S.	28	S.	0	1	5	3	1	17	9	8	7	11	5	20	6	11	10	0	0	15	0	0	0	1	0
August	7.9	S.	29	S.	0	2	4	1	2	18	14	10	7	4	5	19	7	12	9	0	0	10	0	0	0	1	0
September	8.9	SW.	32	E.	0	5	4	7	2	5	17	8	7	5	8	15	7	7	7	0	0	4	0	0	0	3	2
October	11.9	S.	44	E.	2	7	5	3	2	14	9	10	12	0	2	20	9	12	8	2	0	1	0	0	6	1	1
November	12.1	SW.	46	S.	4	6	5	4	7	3	14	12	9	0	3	13	14	14	12	2	0	8	1	0	10	0	2
December	15.0	N.	54	S.	5	9	7	4	4	4	11	10	11	2	3	18	10	10	8	4	0	2	10	0	20	0	0
Year	10.7	S.	72	E.	20	65	73	41	32	116	144	103	118	38	58	192	115	132	108	39	0	70	54	0	123	9	21

EL PASO, TEX.

[H=3,767 ft.; h_t=10 ft.; h_r=2 ft.; h_a=110 ft.]

January	11.6	NW.	47	SW.	4	2	11	2	3	0	1	21	22	0	7	14	10	3	3	1	0	0	0	0	13	0	0
February	10.8	NW.	48	NE.	3	2	8	9	6	1	2	8	20	0	15	5	8	3	1	1	0	0	2	0	16	1	0
March	14.0	W.	54	SW.	9	1	11	3	2	2	7	21	15	0	14	14	3	1	1	0	0	0	0	0	2	0	0
April	14.1	NW.	78	W.	5	1	3	14	2	0	10	17	13	0	22	7	1	0	0	0	0	0	0	0	1	0	0
May	13.1	NW.	62	NW.	8	1	14	8	2	1	7	11	18	0	20	10	1	3	2	0	1	0	0	9	0	1	0
June	11.1	NW.	51	NE.	5	3	12	14	6	2	4	3	16	0	16	12	2	7	3	0	1	0	0	19	0	5	0
July	9.4	NE.	44	NW.	2	1	18	14	10	3	0	7	9	0	9	16	6	11	10	0	0	0	0	19	0	11	0
August	8.9	E.	55	NE.	3	2	11	23	8	3	2	2	11	0	14	16	1	12	7	0	0	0	0	19	0	11	0
September	10.1	E.	37	NW.	0	1	14	18	9	0	2	3	13	0	13	9	8	7	2	0	0	0	0	16	0	1	0
October	9.2	E.	43	NE.	1	1	15	22	10	2	4	3	5	0	16	12	3	3	1	0	0	0	0	0	0	0	0
November	10.7	NW.	50	SW.	4	2	6	11	6	0	2	14	19	0	17	11	2	5	5	0	0	0	0	0	6	0	0
December	10.4	NW.	46	SW.	3	3	8	2	2	1	0	19	27	0	19	9	3	2	1	1	0	0	0	0	22	0	0
Year	11.1	NW.	78	W.	47	20	131	140	66	15	41	129	188	0	182	135	48	57	36	3	2	0	2	82	60	30	0

ERIE, PA.

[H=714 ft.; h_t=92 ft.; h_r=82 ft.; h_a=102 ft.]

January	13.4	SW.	40	SE.	1	0	3	2	3	13	21	15	5	0	2	10	19	18	15	15	0	1	14	0	29	0	0
February	12.1	SW.	36	SW.	0	3	2	0	0	7	19	18	7	0	8	8	12	12	10	10	0	1	18	0	27	0	0
March	11.9	W.	36	S.	0	3	17	2	2	8	7	18	5	0	7	11	13	10	8	6	0	2	8	0	29	0	0
April	10.4	NE.	40	SE.	1	3	16	3	6	6	9	14	3	0	9	12	9	10	6	0	0	3	0	0	8	0	0
May	9.8	SW.	27	S.	0	5	7	4	3	13	15	12	3	0	12	13	6	9	7	0	0	0	0	0	1	5	0
June	7.8	W.	26	W.	0	4	15	3	2	11	5	16	4	0	16	5	9	7	7	0	0	0	0	1	0	3	0
July	8.4	SW.	29	SW.	0	6	5	4	3	8	15	14	6	1	15	11	5	9	7	0	0	0	0	1	0	2	0
August	8.0	S.	40	W.	1	4	3	5	4	13	11	12	9	1	9	14	8	10	9	0	0	0	0	0	0	8	0
September	10.1	S.	45	SW.	1	5	6	4	1	18	14	5	7	0	10	11	9	12	10	0	1	0	0	0	0	4	0
October	12.6	S.	33	W.	0	4	4	2	3	18	14	2	15	0	9	10	12	11	9	2	0	0	0	0	5	1	0
November	11.5	S.	54	SW.	1	1	5	4	2	24	11	3	10	0	4	8	18	15	14	3	0	1	2	0	13	0	0
December	13.6	S.	36	S.	0	2	7	3	7	19	16	4	4	0	4	6	21	15	14	8	0	0	12	0	23	0	0
Year	10.8	S.	54	SW.	5	40	90	36	36	158	157	133	78	2	105	119	141	138	116	44	1	8	54	2	135	23	0

EUREKA, CAL.

[H = 64 ft.; h_t = 60 ft.; h_r = 52 ft.; h_a = 69 ft.]

January	7.4	SE.	36	SE.	0	1	6	14	18	5	3	2	12	1	8	14	9	19	19	0	1	2	0	0	3	0	0
February	5.0	NW.	30	SW.	0	3	3	11	7	7	5	3	15	2	7	11	10	9	5	0	0	5	0	0	0	0	0
March	7.3	NW.	36	SW.	0	3	2	12	12	8	5	3	16	1	6	18	7	11	11	0	2	3	0	0	1	0	0
April	7.1	NW.	30	SW.	0	2	2	10	9	8	8	3	17	1	8	15	7	14	12	0	0	0	0	0	1	0	0
May	9.1	NW.	36	NW.	0	6	1	6	6	8	8	6	21	0	10	12	9	13	11	0	0	1	0	0	0	0	0
June	8.2	NW.	44	NW.	3	3	4	3	5	5	7	2	27	4	11	18	1	2	1	0	0	5	0	0	0	0	0
July	6.4	NW.	36	NW.	0	1	1	5	7	5	5	5	29	4	9	16	6	4	2	0	0	7	0	0	0	0	0
August	4.9	NW.	30	NW.	0	3	0	4	5	11	11	12	16	0	11	10	10	2	2	0	0	14	0	0	0	0	0
September	5.5	W.	34	NW.	0	3	0	3	7	8	7	14	14	4	10	15	5	4	4	0	0	11	0	0	0	0	0
October	4.2	NW.	38	NW.	0	11	3	10	3	7	6	2	19	1	5	8	18	2	0	0	0	13	0	0	0	0	0
November	5.2	E.	36	NW.	0	2	5	12	7	8	9	4	12	1	12	16	2	10	9	0	0	5	0	0	0	0	0
December	5.5	E.	42	SE.	1	1	9	14	10	9	8	0	11	0	8	14	9	19	17	0	0	4	0	0	3	2	0
Year	6.3	NW.	44	NW.	4	39	36	104	96	89	82	56	209	19	105	167	93	109	93	0	3	70	0	0	8	2	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

FORT SMITH, ARK.

[λ=35° 22′ N.; φ=94° 24′ W.; gravity corr., —0.03.]

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	29.59	30.07	29.00	29.4	38.4	43.1	24.6	33.8	73	5	25	30	82	73	.142	.177	2.24	.74	7.4	6.0	6.9
February	29.75	30.14	29.23	27.0	38.3	43.1	22.9	33.0	74	— 7	22	28	79	68	.132	.176	.20	.20	5.0	5.9	5.4
March	29.55	29.97	29.03	44.4	56.1	62.0	39.8	50.9	87	16	37	40	75	57	.241	.260	2.78	1.10	5.7	4.4	5.4
April	29.46	29.86	29.04	54.7	67.6	73.5	49.6	61.6	90	32	47	50	76	56	.332	.369	1.41	.46	5.0	3.7	4.8
May	29.49	29.86	29.28	63.5	73.4	79.1	56.4	67.8	91	42	55	59	76	62	.459	.520	3.74	1.37	4.5	4.8	5.4
June	29.51	29.71	29.32	71.8	79.7	85.2	65.2	75.2	92	54	67	68	84	71	.658	.705	6.64	1.68	5.8	4.6	5.4
July	29.48	29.66	29.19	74.7	81.2	86.8	68.1	77.4	96	61	71	73	87	77	.755	.811	14.99	3.90	6.1	5.9	6.2
August	29.46	29.63	29.34	72.9	81.4	89.2	67.7	78.4	96	63	69	72	88	74	.715	.781	4.98	1.63	4.7	4.1	4.3
September	29.52	29.85	29.22	70.1	79.6	87.6	64.8	76.2	97	37	65	67	83	66	.640	.696	2.36	2.15	2.3	2.2	3.5
October	29.62	29.86	29.28	47.9	61.7	70.2	43.4	56.8	82	30	41	44	79	54	.271	.304	1.28	.84	4.0	2.9	3.3
November	29.60	29.89	29.22	42.1	52.0	58.9	37.1	48.0	79	24	37	38	83	62	.237	.247	3.25	1.11	6.1	4.5	5.2
December	29.54	29.92	29.06	36.7	45.5	51.5	33.7	42.6	66	15	32	36	81	70	.196	.227	6.00	3.48	5.2	4.2	5.5
Year	29.55	30.14	29.00	52.9	62.9	69.2	47.8	58.5	97	— 7	47	50	81	66	.398	.439	49.87	3.90	5.2	4.4	5.1

FRESNO, CAL.

[λ=36° 43′ N.; φ=119° 49′ W.; gravity corr., —0.02.]

Month.	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.
January	29.67	29.99	29.01	41.6	49.5	51.5	39.1	45.3	61	28	40	43	92	78	.247	.276	4.14	1.46	3.7	6.2	7.2
February	29.76	30.06	29.46	45.2	60.7	62.4	42.8	52.6	73	34	43	47	92	61	.278	.318	1.76	.95	3.1	3.6	4.9
March	29.69	29.89	29.44	45.7	62.3	64.8	42.6	53.7	77	33	43	43	90	52	.279	.291	1.84	.52	2.2	4.4	5.1
April	29.68	30.01	29.45	48.4	71.4	73.3	46.8	60.0	92	34	44	41	84	35	.285	.266	.99	.84	2.8	3.4	3.4
May	29.57	29.76	29.40	53.5	79.5	82.1	52.7	67.4	98	45	44	38	72	26	.297	.237	.52	.52	1.6	2.4	2.5
June	29.51	29.73	29.33	61.2	93.6	94.6	59.9	77.2	109	47	44	33	56	12	.297	.191	.00	.00	.8	.6	0.5
July	29.50	29.64	29.35	63.5	94.7	96.2	62.5	79.4	107	53	47	36	56	14	.327	.216	T.	T.	1.1	1.4	1.2
August	29.47	29.62	29.26	64.9	96.1	97.6	63.5	80.6	110	51	46	39	52	15	.308	.243	T.	T.	.5	.9	1.0
September	29.54	29.71	29.40	55.6	84.3	86.4	54.3	70.4	97	44	44	37	66	19	.295	.229	.07	.06	1.4	2.0	1.7
October	29.59	29.80	29.30	54.3	77.4	80.8	52.4	66.6	95	40	46	43	74	33	.311	.288	.16	.13	1.5	2.4	2.4
November	29.71	30.11	29.33	43.3	61.0	65.4	40.3	52.8	80	29	36	37	77	43	.220	.223	.19	.12	1.7	2.8	3.2
December	29.87	30.17	29.46	38.9	48.5	51.4	35.8	43.6	71	26	36	38	91	70	.217	.234	.78	.40	3.6	4.4	5.9
Year	29.63	30.17	29.01	51.3	73.2	75.5	49.4	62.5	110	26	43	40	75	38	.280	.251	10.39	1.46	2.0	2.9	3.2

GALVESTON, TEX.

[λ=29° 18′ N.; φ=94° 50′ W.; gravity corr., —0.04.]

Month.	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.
January	30.05	30.36	29.66	50.7	54.6	59.2	47.5	53.4	71	31	46	46	85	76	.345	.349	1.24	.63	5.5	4.8	4.9
February	30.21	30.62	29.82	40.5	44.4	47.3	37.8	42.6	65	15	35	40	81	84	.231	.271	4.93	1.95	4.5	6.1	5.3
March	30.05	30.40	29.68	57.8	60.1	65.0	55.1	60.0	77	38	53	53	86	78	.432	.408	2.77	1.58	5.6	4.5	4.5
April	29.99	30.28	29.77	65.0	68.3	72.8	63.3	68.0	82	49	59	59	81	74	.513	.511	.33	.21	3.2	4.2	1.9
May	29.96	30.26	29.81	71.9	73.6	77.5	69.0	73.2	82	61	66	68	81	83	.639	.689	5.13	2.90	5.9	7.5	4.2
June	30.01	30.10	29.85	79.6	80.7	84.8	77.0	80.9	88	72	72	71	79	74	.792	.768	1.91	1.03	7.0	5.2	3.3
July	30.01	30.11	29.84	81.8	83.0	87.4	79.0	83.2	92	68	76	74	81	74	.881	.836	3.07	1.46	5.2	5.1	2.0
August	29.96	30.12	29.82	81.6	82.0	87.5	78.6	83.0	94	71	77	76	85	82	.915	.890	4.51	3.61	4.3	5.9	2.8
September	30.00	30.16	29.85	79.9	81.6	85.3	77.7	81.5	90	60	72	71	77	71	.793	.776	1.86	.52	4.7	3.3	3.3
October	30.06	30.26	29.78	65.8	70.5	74.8	64.6	69.7	83	50	60	60	82	71	.531	.535	2.93	2.06	4.3	2.7	2.6
November	30.12	30.37	29.78	59.3	62.4	65.8	56.2	61.0	76	37	53	55	80	79	.420	.457	5.95	3.77	7.1	5.3	5.4
December	30.12	30.44	29.68	53.3	56.3	60.8	49.6	55.2	74	32	46	47	77	73	.341	.346	4.28	1.82	4.7	3.6	4.5
Year	30.04	30.62	29.66	65.6	68.1	72.4	63.0	67.6	94	15	60	60	81	77	.569	.570	38.91	3.77	5.2	4.8	3.7

GRAND HAVEN, MICH.

[λ=43° 5′ N.; φ=86° 13′ W.; gravity corr., 0.]

Month.	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.
January	29.25	29.91	28.41	18.0	21.2	26.2	13.3	19.8	50	— 2	16	19	90	91	.092	.102	3.77	1.00	9.5	7.9	8.4
February	29.36	29.82	28.53	16.8	20.1	24.5	13.9	19.2	42	— 8	15	17	92	88	.090	.103	1.07	.24	7.7	6.3	7.8
March	29.32	29.74	28.84	24.7	29.1	35.8	19.9	27.8	56	— 2	19	22	77	74	.103	.118	.92	.29	5.9	5.4	5.8
April	29.32	29.75	28.86	44.0	49.0	56.9	38.1	47.5	80	26	35	35	72	61	.212	.213	1.33	.45	4.5	6.1	5.5
May	29.32	29.64	28.97	53.8	59.5	65.8	45.9	55.8	87	29	46	46	75	64	.329	.332	2.55	.77	4.4	4.6	4.4
June	29.36	29.66	29.10	65.3	70.0	76.5	56.1	66.3	90	43	54	53	70	57	.431	.409	.69	.32	3.7	4.4	4.0
July	29.32	29.64	28.98	64.0	70.5	77.1	57.5	67.3	89	47	55	53	73	56	.440	.409	1.70	.75	3.5	3.5	3.8
August	29.26	29.50	28.99	65.7	70.2	76.9	59.9	68.4	88	47	58	58	78	68	.493	.493	2.49	1.17	3.8	3.8	4.1
September	29.31	29.59	28.97	60.6	66.6	73.1	56.3	64.7	85	38	54	54	78	66	.439	.450	2.27	.88	4.8	3.1	4.1
October	29.34	29.79	28.81	42.9	46.9	52.5	38.0	45.2	67	22	34	34	73	62	.206	.209	.43	.33	4.8	5.3	5.4
November	29.40	29.73	28.86	33.5	37.4	42.5	30.4	36.4	65	14	29	31	85	79	.167	.179	3.47	.90	8.4	6.7	7.5
December	29.28	29.67	28.84	29.0	30.8	35.9	25.0	30.4	57	0	26	27	87	85	.146	.154	4.93	1.79	9.0	8.4	8.5
Year	29.32	29.91	28.41	43.2	47.6	53.6	37.9	45.7	90	— 8	37	37	79	71	.262	.264	25.62	1.79	5.8	5.5	5.8

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

FORT SMITH, ARK.

[H = 481 ft.; h_t = 63 ft.; h_r = 56 ft.; h_a = 72 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	7.7	E.	42	W.	1	7	8	23	3	2	7	7	5	0	4	10	17	7	6	3	0	1	5	0	22	1	0
February	6.8	E.	36	N.	0	6	3	21	0	4	6	6	10	0	11	4	13	1	1	0	0	0	8	0	20	0	0
March	7.3	E.	36	NW.	0	4	8	17	7	10	3	5	7	1	14	3	14	13	9	0	0	2	0	0	9	2	0
April	7.5	E.	36	SE.	0	5	6	22	5	5	8	4	3	2	14	5	11	11	9	0	0	2	0	0	0	2	0
May	7.2	E.	36	W.	0	7	3	25	13	8	1	3	2	0	9	11	11	13	12	0	0	1	0	1	0	5	0
June	5.5	E.	34	NE.	0	3	9	26	6	7	3	5	1	0	12	3	15	15	14	0	0	2	0	2	0	10	0
July	5.3	E.	42	N.	1	3	6	33	5	6	5	3	1	0	10	6	15	17	14	0	0	1	0	11	0	10	0
August	4.8	E.	24	N.	0	6	6	29	3	7	3	4	2	2	13	14	4	13	10	0	1	3	0	14	0	11	0
September	6.2	E.	26	S.	0	3	9	24	7	12	2	0	2	1	17	6	7	4	4	0	0	1	0	14	0	2	0
October	5.1	E.	26	N.	0	11	11	19	2	5	4	2	1	7	18	7	6	7	4	0	0	1	0	0	1	1	0
November	6.6	E.	26	N.	0	4	5	22	3	5	2	11	4	4	14	4	12	9	9	1	0	1	0	0	12	0	0
December	7.6	E.	30	N.	0	9	6	21	3	5	3	10	5	0	13	4	14	8	8	1	0	0	0	0	16	1	0
Year	6.5	E.	42	NW.	2	68	80	282	57	76	47	60	43	17	149	77	139	118	100	5	1	15	13	42	80	45	0

FRESNO, CAL.

[H = 332 ft.; h_t = 67 ft.; h_r = 54 ft.; h_a = 70 ft.]

Month.	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.
January	5.1	SE.	28	NW.	0	1	0	10	23	2	0	5	18	3	5	6	20	14	11	0	0	15	0	0	4	1	0
February	4.4	NW.	20	NW.	0	2	1	16	11	3	1	3	17	2	11	11	6	4	4	0	0	10	0	0	0	0	0
March	5.1	NW.	26	NW.	0	2	1	14	11	1	0	1	32	0	9	14	8	6	5	0	0	5	0	0	0	0	0
April	6.6	NW.	26	NW.	0	2	2	3	2	5	1	12	33	0	19	6	5	3	3	0	0	0	0	2	0	0	0
May	8.1	NW.	24	W.	0	4	1	0	0	1	1	21	34	0	23	3	5	2	2	0	0	0	0	5	0	0	0
June	7.3	NW.	22	W.	0	3	1	1	0	1	7	16	31	0	30	0	0	0	0	0	0	0	0	23	0	0	0
July	7.4	NW.	22	W.	0	2	1	3	0	2	1	11	42	0	28	3	0	0	0	0	0	0	0	26	0	0	0
August	5.8	NW.	19	NW.	0	2	1	2	0	2	1	11	42	1	28	2	1	0	0	0	0	0	0	25	0	0	0
September	5.6	W.	26	W.	0	2	8	4	2	1	1	21	20	1	24	4	2	2	1	0	0	0	0	9	0	0	0
October	4.1	NW.	16	W.	0	5	4	4	1	2	4	15	25	2	20	8	3	5	1	0	0	0	0	3	0	1	0
November	3.8	W.	28	W.	0	1	17	14	1	2	1	17	6	1	18	8	4	3	2	0	0	7	0	0	5	0	0
December	3.0	E.	21	NW.	0	0	10	18	4	0	2	15	8	5	10	8	13	4	4	0	0	13	0	0	8	0	0
Year	5.5	NW.	28	W. NW.	0	26	47	89	55	22	20	148	308	15	225	73	67	43	33	0	0	50	0	93	17	2	0

GALVESTON, TEX.

[H = 42 ft.; h_t = 85 ft.; h_r = 80 ft.; h_a = 96 ft.]

Month.	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.
January	13.2	S.	49	NW.	3	11	11	7	10	15	1	2	5	0	12	10	9	8	5	0	0	8	0	0	2	2	0
February	14.6	E.	48	NW.	2	9	8	13	6	5	3	3	9	0	11	5	12	11	8	2	0	6	3	0	10	2	0
March	12.0	SE.	49	N.	1	7	4	8	19	10	8	1	5	0	15	7	9	6	5	0	0	11	0	0	0	1	0
April	10.7	S.	33	NW.	0	6	3	1	18	19	4	3	6	0	24	4	2	5	4	0	0	1	0	0	0	2	0
May	11.4	SE.	42	E.	1	2	10	3	24	15	3	2	2	1	15	8	8	10	7	0	0	0	0	0	0	5	0
June	10.1	SE.	24	NE.	0	3	5	2	16	16	15	2	1	0	21	6	3	9	6	0	0	0	0	0	0	8	0
July	10.0	SW.	26	NE.	0	0	1	0	1	24	33	2	1	0	22	9	0	8	6	0	0	0	0	1	0	7	0
August	9.2	S.	33	SE.	0	0	0	0	2	10	22	18	7	2	1	25	2	4	7	5	0	0	0	4	0	12	0
September	9.8	SE.	35	NE.	0	0	11	5	23	11	7	1	2	0	19	8	3	15	9	0	0	0	0	0	0	5	0
October	10.2	NE.	31	NE.	0	11	21	10	8	5	5	2	0	0	23	4	4	5	5	0	0	2	0	0	0	3	0
November	11.4	E.	45	N.	1	12	8	11	9	8	5	2	5	0	13	4	13	12	8	0	0	2	0	0	0	1	0
December	12.1	SE.	46	NW.	2	12	4	3	12	8	12	4	7	0	12	11	8	12	9	0	0	1	0	0	0	3	0
Year	11.2	SE.	49	N. NW.	10	73	86	65	156	158	114	31	45	2	212	78	75	108	77	2	0	31	3	5	12	51	0

GRAND HAVEN, MICH.

[H = 628 ft.; h_t = 55 ft.; h_r = 48 ft.; h_a = 64 ft.]

Month.	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.
January	12.7	NW.	50	SW.	2	8	4	7	15	0	5	8	15	0	4	3	24	25	14	24	1	2	21	0	31	1	0
February	12.2	NW.	42	SW.	1	8	4	4	3	2	12	9	14	0	5	3	20	14	10	13	0	2	21	0	26	0	1
March	12.3	NW.	36	E.	0	9	7	11	6	7	3	10	9	0	10	8	13	10	6	7	0	0	10	0	28	0	0
April	9.6	E.	32	SW.	0	13	7	15	8	3	5	3	6	0	12	6	12	7	6	0	0	1	0	0	7	1	0
May	10.2	SW.	37	SW.	0	7	4	5	10	6	17	6	6	1	12	15	4	11	7	2	0	1	0	0	1	4	0
June	7.8	SW.	36	W.	0	4	2	7	10	7	11	3	16	0	15	11	4	7	3	0	0	1	0	0	0	2	0
July	8.1	NW.	48	SW.	1	5	4	6	6	1	16	8	16	0	14	15	2	7	5	0	0	0	0	0	0	3	0
August	7.4	SW.	28	NW.	0	7	2	4	11	4	12	9	13	0	13	15	3	9	8	0	0	2	0	0	0	6	0
September	11.6	SW.	41	SW.	4	6	3	2	13	5	17	6	8	0	14	9	7	10	6	0	0	6	0	0	0	4	0
October	12.5	NW.	38	NW.	0	13	3	3	7	3	17	5	11	0	11	9	11	8	2	1	0	1	0	0	6	0	3
November	10.7	SE.	35	SW.	0	9	9	7	18	2	9	1	5	0	2	10	18	15	10	7	0	1	3	0	18	0	1
December	11.5	SW.	36	SW.	0	6	10	6	11	4	12	7	6	0	0	8	23	15	11	7	0	2	11	0	22	0	0
Year	10.6	SW.	50	SW.	8	95	59	77	118	44	136	75	125	1	112	112	141	138	88	61	1	19	66	0	139	21	5

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

GREEN BAY, WIS.

[λ=44° 31′ N.; φ=88° 0′ W.; gravity corr., 0.]

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	29.30	29.99	28.27	9.1	15.3	20.6	6.1	13.4	37	—15	3	8	72	71	.054	.066	1.96	0.68	5.8	5.3	6.0
February	29.40	29.83	28.52	7.1	15.9	21.4	3.8	12.6	54	—24	2	10	76	76	.059	.085	.74	.25	5.8	4.8	5.5
March	29.36	29.82	28.86	21.2	29.3	35.1	18.3	26.7	65	— 6	13	21	69	69	.082	.115	.41	.12	5.8	4.5	5.5
April	29.38	29.74	29.05	41.7	47.0	54.5	36.5	45.5	76	27	33	34	71	62	.190	.200	1.21	.36	6.5	7.1	6.6
May	29.32	29.67	28.93	54.2	60.7	68.7	46.8	57.8	91	29	45	45	72	59	.324	.342	4.28	1.39	5.3	6.6	6.5
June	29.37	29.62	29.02	65.0	69.7	80.1	57.3	68.7	92	41	53	54	66	58	.413	.420	2.37	1.18	5.6	6.2	6.1
July	29.34	29.64	28.99	62.7	71.8	79.6	56.2	67.9	92	43	53	53	71	52	.405	.411	1.44	.85	4.5	5.5	5.4
August	29.27	29.55	29.00	63.2	71.5	79.0	57.9	68.4	93	46	56	56	77	60	.451	.464	3.71	.96	5.2	5.8	6.1
September	29.29	29.61	28.87	59.9	68.5	75.6	55.3	65.4	95	33	51	50	72	54	.394	.393	1.24	.61	5.8	6.0	6.2
October	29.35	29.80	28.81	36.6	45.0	52.1	32.8	42.4	71	14	27	30	69	58	.154	.178	.40	.10	5.0	4.5	6.3
November	29.42	29.75	28.97	29.5	34.3	39.5	26.0	32.8	68	— 5	22	26	72	71	.125	.146	1.50	.43	7.6	7.0	7.3
December	29.30	29.70	28.64	22.3	25.3	30.3	18.9	24.6	49	— 2	16	19	76	75	.102	.108	1.78	.79	8.3	6.5	7.7
Year	29.34	29.99	28.27	39.4	46.2	53.0	34.7	43.8	95	—24	31	34	72	64	.229	.244	21.04	1.39	5.9	5.8	6.3

HANNIBAL, MO.

[λ=39° 41′ N.; φ=91° 20′ W.; gravity corr., —0.02.]

Month.	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.
January	29.49	30.13	28.66	16.2	24.6	29.9	12.0	21.0	62	—10	12	16	82	69	.086	.102	1.57	1.47	5.1	3.8	5.1
February	29.63	30.03	28.99	14.7	24.5	28.6	11.8	20.2	65	—18	11	16	83	70	.087	.114	.39	.16	4.9	4.2	5.6
March	29.46	29.79	29.02	34.2	43.4	49.4	30.4	39.9	84	9	25	27	70	55	.139	.154	1.77	1.19	4.9	5.5	5.4
April	29.39	29.69	28.92	49.8	60.0	66.3	45.9	56.1	87	32	43	44	78	59	.289	.300	1.95	.65	4.9	5.0	5.1
May	29.42	29.76	29.15	59.0	67.0	73.5	53.4	63.4	89	36	51	51	77	58	.405	.406	6.23	1.96	4.4	4.9	3.7
June	29.46	29.66	29.24	69.5	78.0	83.2	63.9	73.6	92	52	61	59	76	55	.547	.513	3.92	1.21	4.8	4.8	3.7
July	29.43	29.70	29.08	69.6	76.6	82.5	64.6	73.6	95	53	64	64	82	66	.600	.606	8.01	1.74	5.3	4.7	4.3
August	29.39	29.64	29.20	68.7	78.2	84.5	65.1	74.8	93	54	64	66	84	67	.596	.645	4.86	1.82	4.6	4 1	4.1
September	29.45	29.80	29.09	64.6	72.8	81.1	60.8	71.0	94	36	58	60	80	66	.515	.564	2.69	.89	3.6	2.7	3.7
October	29.54	29.89	29.08	40.6	53.1	61.9	38.4	50.2	78	22	32	33	72	48	.192	.203	.36	.27	2.9	2.0	2.5
November	29.54	29.85	29.03	35.0	41.7	47.0	32.3	39.6	74	13	30	33	83	72	.177	.193	4.40	1.66	6.5	6.6	6.4
December	29.44	29.88	28.72	30.2	34.0	39.8	26.2	33.0	64	2	25	27	80	75	.145	.158	5.98	2.70	7.5	5.9	6.4
Year	29.47	30.13	28.66	46.0	54.5	60.6	42.1	51.4	95	—18	40	41	79	63	.315	.330	42.13	2.70	5.0	4.5	4.7

HARRISBURG, PA.

[λ=40° 16′ N.; φ=76° 52′ W.; gravity corr., —0.01.]

Month.	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.
January	29.66	30.07	28.90	23.8	27.0	30.9	19.8	25.4	44	2	21	24	89	85	.119	.130	3.80	0.98	6.9	5.7	6.3
February	29.62	30.13	28.97	18.9	25.0	29.2	16.7	23.0	54	— 4	16	20	86	79	.092	.113	.54	.35	6.0	3.4	4.7
March	29.62	30.22	29.14	32.8	38.3	43.0	28.8	35.9	58	17	27	30	78	72	.147	.167	1.94	.46	6.0	4.9	5.5
April	29.62	30.21	28.98	47.2	53.8	59.0	42.3	50.6	84	31	39	40	74	65	.248	.265	3.67	1.59	5.7	6.5	6.1
May	29.68	29.93	29.21	58.0	64.2	71.0	52.5	61.8	95	37	51	53	78	69	.397	.436	1.98	.58	5.5	4.6	5.2
June	29.68	30.08	29.41	69.9	75.2	83.3	63.6	73.4	97	53	62	63	76	68	.561	.585	1.66	1.12	4.1	4.1	4.2
July	29.59	29.88	29.33	67.7	73.7	80.7	62.1	71.4	95	53	60	60	77	64	.526	.535	1 16	.33	4.6	4.6	4.6
August	29.58	29.91	29.39	70.6	77.4	85.4	64.6	75.0	95	50	62	63	75	62	.568	.586	2.36	1.31	2.5	4.9	3.7
September	29.68	30.00	29.42	64.6	70.6	79.0	60.3	69.6	94	42	56	59	74	68	.468	.533	2.18	1.06	4.3	3.4	3.8
October	29.67	30.15	29.27	44.2	52.5	59.8	39.6	49.7	72	29	36	38	74	58	.219	.235	1.63	.72	2.5	2.4	2.4
November	29.79	30.26	29.12	40.9	45.2	50.8	37.1	44.0	75	24	37	38	87	78	.241	.249	1.72	.63	6.1	4.9	5.5
December	29.74	30.34	28.96	31.9	36.6	41.2	29.0	35.1	61	12	28	32	84	81	.162	.189	3.38	1.92	5.2	5.3	5.3
Year	29.66	30.34	28.90	47.5	53.3	59.4	43.0	51.2	97	— 4	41	43	79	71	.312	.335	26.02	1.92	5.0	4.6	4.8

HATTERAS, N. C.

[λ=35° 15′ N.; φ=75° 40′ W.; gravity corr., —0.03.]

Month.	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.
January	30.10	30.41	29.59	45.2	46.8	52.1	39.6	45.8	68	26	40	41	82	81	.269	.273	6.14	2.04	6.8	5.5	6.2
February	30.07	30.53	29.29	34.6	36.4	41.3	30.7	36.0	58	11	29	31	78	79	.168	.179	3.73	1.28	4.6	4.0	4.9
March	30.06	30.51	29.48	49.3	50.3	55.7	44.6	50.2	66	33	43	43	80	78	.294	.295	7.14	2.16	5.2	4.5	5.5
April	30.03	30.54	29.50	58.6	58.0	64.0	53.7	58.8	74	42	53	53	81	84	.416	.416	7.72	1.83	5.0	5.4	5.7
May	30.08	30.31	29.71	65.7	65.2	70.6	60.7	65.6	86	51	60	60	84	84	.548	.532	7.61	2.69	5.5	5.6	5.8
June	30.06	30.28	29.89	74.5	73.0	78.9	69.7	74.3	91	61	69	69	83	86	.715	.712	4.05	2.17	4.6	5.4	4.7
July	30.02	30.17	29.73	77.2	75.6	81.2	72.4	76.8	95	62	71	70	80	85	.758	.755	7.62	2.85	4.8	4.8	4.5
August	30.02	30.19	29.80	78.4	77.9	82.6	73.5	78.0	86	67	72	73	82	84	.795	.811	5.32	1.60	5.1	4.7	4.7
September	30.08	30.34	29.80	76.3	75.4	80.7	72.5	76.6	90	59	69	69	79	80	.728	.725	5.89	4.20	5.2	3.7	4.1
October	30.07	30.42	29.75	62.1	62.1	67.1	57.3	62.2	78	49	55	54	78	75	.441	.429	2 84	1.32	4.5	4.2	4.6
November	30.15	30.54	29.53	57.3	57.4	61.9	52.8	57.4	77	37	54	53	88	86	.433	.432	7.78	2.95	6.6	6.6	6.6
December	30.14	30.65	29.51	46.9	49.5	53.4	43.5	48.4	69	31	41	44	82	81	.275	.303	3.44	1.29	5.9	6.4	5.6
Year	30.07	30.65	29.29	60.5	60.6	65.8	55.9	60.8	91	11	55	55	81	82	.487	.488	69.28	4.20	5.3	5.1	5.2

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

GREEN BAY, WIS.

[H = 617 ft.; h_t = 49 ft.; h_r = 41 ft.; h_a = 57 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	9.8	S.	41	N.	3	10	2	3	2	16	11	10	8	0	12	5	14	11	6	11	0	1	28	0	31	0	0
February	9.8	S.	30	N.	0	1	1	0	0	26	7	14	7	0	10	7	11	9	6	8	0	0	21	0	26	0	0
March	10.8	S.	38	W.	0	16	0	6	3	18	6	6	7	0	8	17	6	8	5	6	0	0	10	0	28	0	0
April	8.7	N.	38	W.	0	30	4	3	7	8	0	3	3	2	4	14	12	8	7	1	0	0	0	0	7	0	0
May	9.5	S.	42	N.	2	8	4	4	7	24	7	0	8	0	5	14	12	14	14	1	1	0	0	1	3	6	0
June	7.4	SE.	36	SW.	0	8	7	5	17	9	7	5	2	0	3	24	3	9	8	0	0	0	0	2	0	8	0
July	6.9	SE.	34	SW.	0	10	8	5	15	6	3	7	7	1	4	21	6	5	4	0	0	0	0	2	0	4	0
August	6.4	S.	30	SW.	0	7	7	7	3	18	5	7	7	1	5	16	10	14	14	0	0	3	0	2	0	6	0
September	9.9	S.	40	SW.	1	3	3	1	13	19	8	6	6	1	6	14	10	7	6	0	0	1	0	7	0	5	0
October	9.9	S.	36	W.	0	2	2	0	3	25	6	17	6	1	4	15	12	7	4	4	0	3	0	0	13	0	0
November	9.0	S.	32	NW.	0	4	1	2	7	18	5	6	17	0	4	12	14	10	8	6	0	0	8	0	21	0	0
December	8.8	SW.	30	NW.	0	9	1	0	5	17	21	3	6	0	3	9	19	10	8	5	0	0	16	0	30	0	0
Year	8.9	S.	42	N.	6	108	40	36	82	204	86	84	84	6	68	168	129	112	90	42	1	8	83	14	159	29	0

HANNIBAL, MO.

[H = 534 ft.; h_t = 75 ft.; h_r = 68 ft.; h_a = 107 ft.]

Month.	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.
January	9.3	W.	50	W.	2	8	3	5	5	5	12	13	10	1	15	6	10	8	2	5	0	0	19	0	29	1	0
February	9.4	SW.	34	SW.	0	6	0	5	2	3	16	12	11	1	10	10	8	7	2	6	0	0	16	0	24	0	0
March	12.2	SW.	36	NE.	0	12	8	7	2	6	14	5	8	0	10	11	10	8	6	4	0	0	3	0	19	1	0
April	9.8	SE.	36	S.	0	10	8	11	12	3	8	4	4	0	12	8	10	9	7	0	0	0	0	0	0	1	0
May	10.5	SW.	40	S.	1	6	2	8	8	12	14	6	6	0	17	10	4	13	12	0	1	0	0	0	0	10	0
June	7.9	NW.	44	W.	1	5	4	9	8	8	7	7	12	0	16	10	4	9	8	0	0	0	0	5	0	7	0
July	7.2	S.	36	W.	0	1	8	8	8	13	12	6	5	1	10	16	5	13	10	0	1	0	0	4	0	11	0
August	6.9	SW.	32	SW.	0	4	1	4	3	5	33	2	8	2	15	13	3	11	9	0	0	1	0	7	0	6	0
September	9.9	S.	41	S.	1	4	3	3	8	26	10	3	3	0	15	12	3	7	7	0	1	1	0	6	0	6	0
October	8.6	SW.	35	NW.	0	11	0	3	3	5	19	10	10	1	20	9	2	3	2	0	0	0	0	0	7	1	0
November	9.7	S.	36	NW.	0	9	3	7	5	16	9	4	7	0	10	5	15	15	9	5	0	0	5	0	16	0	0
December	10.4	S.	41	SW.	1	12	3	2	3	13	12	8	9	0	8	9	14	10	7	3	0	1	7	0	21	0	0
Year	9.3	SW.	50	W.	6	88	43	72	67	115	166	80	93	6	158	119	88	113	81	23	3	3	50	22	116	44	0

HARRISBURG, PA.

[H = 377 ft.; h_t = 94 ft.; h_r = 87 ft.; h_a = 102 ft.]

Month.	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.
January	7.5	W.	36	E.	0	6	6	16	2	3	7	20	2	0	6	12	13	15	11	9	0	2	17	0	28	0	0
February	10.8	W.	46	NW.	3	3	1	2	0	4	7	23	15	1	10	11	7	5	4	4	0	2	15	0	27	0	0
March	9.4	W.	42	W.	1	10	10	11	2	6	1	18	4	0	10	9	12	13	12	7	0	1	2	0	22	0	0
April	8.6	E.	29	NW.	0	6	8	19	4	3	4	9	7	0	10	6	14	10	9	0	0	0	0	0	2	0	0
May	6.9	W.	28	NW.	0	4	2	9	7	15	4	16	5	0	12	9	10	11	10	0	0	0	0	2	0	0	0
June	6.0	E.	24	N.	0	9	4	19	6	3	6	11	2	0	13	11	6	7	6	0	0	0	0	4	0	3	0
July	5.8	W.	30	W.	0	9	4	4	3	9	4	20	8	1	15	6	10	10	7	0	0	0	0	3	0	3	0
August	5.6	W.	25	NW.	0	4	8	6	7	10	4	17	5	1	16	11	4	9	7	0	0	0	0	6	0	0	0
September	5.5	W.	27	NE.	0	11	4	9	4	10	1	14	7	0	17	9	4	10	9	0	0	1	0	6	0	3	0
October	6.9	W.	33	W.	0	9	2	9	3	9	4	15	10	1	22	6	3	5	5	0	0	1	0	0	5	0	0
November	6.3	E.	31	W.	0	10	2	16	4	4	5	11	8	0	9	10	11	12	9	0	0	3	0	0	7	1	0
December	7.2	E.	42	W.	3	9	5	21	3	3	2	14	4	1	11	8	12	11	6	2	0	5	7	0	19	0	0
Year	7.2	W.	46	NW.	7	90	56	141	45	79	49	188	77	5	151	108	106	118	95	22	0	15	41	21	110	10	0

HATTERAS, N. C.

[H = 11 ft.; h_t = 17 ft.; h_r = 2 ft.; h_a = 36 ft.

Month.	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.
January	15.2	N.	48	N.	3	15	6	1	3	7	10	11	9	0	7	10	14	14	14	0	0	2	0	0	5	0	0
February	19.4	NW.	57	NW.	6	14	9	2	1	0	9	2	19	0	12	9	7	10	9	3	0	1	5	0	13	0	0
March	16.7	SW.	51	N.	3	14	9	4	3	3	20	3	6	0	12	9	10	13	12	0	0	0	0	0	0	1	0
April	13.6	S.	51	N.	3	11	7	2	6	17	10	3	4	0	9	10	11	12	10	0	1	0	0	0	0	1	0
May	13.0	N.	40	N.	1	12	12	8	3	9	9	8	1	0	6	15	10	15	14	0	1	1	0	0	0	2	0
June	12.2	S.	46	N.	1	8	13	1	6	14	11	6	1	0	10	16	4	10	8	0	0	0	0	1	0	7	0
July	12.1	SW.	34	SW.	0	5	10	6	2	7	19	9	4	0	13	13	5	12	12	0	0	0	0	0	0	8	0
August	9.2	SW.	34	SW.	0	3	5	4	10	4	24	10	2	0	10	13	8	11	11	0	0	0	0	0	0	1	0
September	10.4	NE.	42	N.	1	6	15	7	3	8	10	8	3	0	14	10	6	10	8	0	0	0	0	0	0	1	0
October	15.6	NE.	48	N.	2	18	23	2	1	0	8	5	4	1	12	12	7	4	4	0	0	1	0	0	0	1	0
November	16.5	NE.	54	N.	4	15	17	1	2	6	5	6	8	0	6	10	14	12	10	0	0	0	0	0	0	0	0
December	16.0	N.	60	N.	5	20	10	1	7	4	7	8	5	0	10	9	12	14	12	0	0	1	0	0	1	0	0
Year	14.2	SW.	60	N.	29	141	136	39	47	79	142	79	66	1	121	136	108	137	124	3	2	6	5	1	19	22	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

HAVRE, MONT.

[λ = 48° 34′ N.; φ = 109° 40′ W.; gravity corr., + 0.01.]

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	27.29	27.78	26.80	—0.9	4.0	11.1	—8.5	1.3	44	—26	—4	0	86	82	.038	.044	1.06	0.25	5.5	5.4	6.3
February	27.47	28.11	26.94	6.7	14.8	19.6	1.4	10.5	55	—34	2	9	81	78	.072	.090	.91	.29	5.2	5.6	5.7
March	27.29	27.73	26.73	23.5	36.2	42.3	18.6	30.4	72	—16	17	21	77	56	.104	.119	.34	.22	5.2	5.7	5.0
April	27.33	27.72	26.84	36.2	59.4	62.8	32.9	47.8	80	20	26	26	67	30	.145	.156	.62	.38	4.7	6.3	4.7
May	27.28	27.79	26.61	42.7	62.3	66.8	38.5	52.6	85	22	31	29	65	32	.177	.169	.43	.24	4.0	5.4	4.7
June	27.38	27.68	27.04	50.8	66.0	70.6	45.8	58.2	94	36	42	41	74	45	.271	.261	3.36	1.70	5.2	6.7	5.2
July	27.35	27.67	26.96	55.6	76.0	79.0	52.0	65.5	95	36	49	51	79	45	.349	.376	2.24	.82	4.4	4.6	3.8
August	27.34	27.64	27.02	50.5	78.1	80.8	47.5	64.2	96	34	39	39	67	27	.247	.247	.04	.04	2.5	2.3	2.6
September	27.28	27.90	26.77	42.4	60.5	65.3	40.0	52.6	91	18	33	34	72	40	.195	.206	1.05	.63	4.5	5.2	5.3
October	27.44	27.84	27.06	33.0	51.1	61.0	28.9	45.0	78	12	22	27	66	40	.124	.150	.12	.09	3.4	3.1	3.5
November	27.34	27.83	26.88	26.4	30.0	36.9	19.3	28.1	63	— 5	19	21	77	72	.110	.120	.47	.16	5.8	5.8	6.5
December	27.22	27.83	26.55	20.5	23.7	30.7	11.7	21.2	60	—24	14	16	78	71	.089	.097	.30	.14	4.3	4.4	5.4
Year	27.33	28.11	26.55	32.3	46.8	52.2	27.3	39.8	96	—34	24	26	74	52	.160	.170	10.94	1.70	4.6	5.0	4.9

HELENA, MONT.

[λ = 46° 34′ N.; φ = 112° 04′ W.; gravity corr., 0.]

January	25.70	26.01	25.22	14.6	18.9	24.8	9.7	17.2	51	—15	7	12	71	71	.065	.079	1.95	0.45	7.2	6.1	6.7
February	25.91	26.33	25.49	15.1	24.1	31.0	10.6	20.8	65	—17	8	13	71	65	.079	.099	1.69	.82	6.0	4.7	4.6
March	25.77	26.11	25.34	25.4	36.7	42.3	22.5	32.4	69	—10	17	23	68	58	.100	.129	.29	.20	5.2	5.8	4.3
April	25.83	26.21	25.43	37.3	55.7	59.3	35.5	47.4	75	24	25	24	61	32	.136	.133	.53	.36	4.9	5.5	4.0
May	25.79	26.26	25.28	43.7	58.6	63.1	41.0	52.0	79	31	29	30	57	37	.161	.172	.87	.35	4.6	6.1	5.0
June	25.90	26.11	25.58	49.3	63.4	66.9	46.2	56.6	89	35	35	34	61	39	.210	.206	1.30	.27	5.1	6.4	4.6
July	25.87	26.22	25.49	55.9	73.7	77.8	53.6	65.7	94	43	40	34	56	28	.247	.215	1.18	.48	4.5	4.4	3.3
August	25.87	26.12	25.62	54.4	75.9	78.9	53.3	66.1	91	40	36	36	52	26	.216	.220	.14	.08	2.8	2.8	2.4
September	25.81	26.30	25.34	44.9	58.5	63.2	42.0	52.6	85	26	31	32	59	40	.177	.187	.57	.17	4.8	5.3	4.2
October	25.97	26.26	25.72	37.6	52.0	59.1	35.5	47.3	75	25	27	30	67	44	.150	.173	.28	.18	2.9	3.6	3.8
November	25.85	26.16	25.43	29.6	34.0	39.5	25.3	32.4	61	1	19	21	65	60	.105	.118	.77	.38	6.0	5.3	6.6
December	25.77	26.25	25.12	21.4	25.9	32.2	15.9	23.6	51	— 4	13	16	69	63	.085	.091	1.12	.39	5.8	4.7	6.8
Year	25.84	26.33	25.12	35.8	48.1	53.1	32.6	42.8	94	—17	24	25	63	47	.144	.152	10.69	.82	5.0	5.1	4.7

HURON, S. DAK.

[λ = 44° 21′ N.; φ = 98° 14′ W.; gravity corr., 0.]

January	28.63	29.27	27.97	0.0	7.2	14.3	—5.7	4.3	35	—23	—4	1	83	72	.042	.053	0.91	0.67	5.1	4.1	5.3
February	28.77	29.42	28.02	7.1	16.1	23.8	2.6	13.2	68	—33	3	9	81	74	.068	.086	.71	.30	7.1	5.8	6.5
March	28.59	29.02	27.93	20.6	37.2	44.1	17.5	30.8	77	— 9	13	18	72	47	.085	.099	1.03	.83	5.5	6.0	5.3
April	28.53	28.91	27.86	44.0	61.2	69.5	40.1	54.8	83	28	35	38	72	46	.211	.244	2.03	.81	5.5	6.3	5.4
May	28.50	28.98	27.81	50.5	63.7	70.9	43.8	57.4	94	24	42	42	72	48	.274	.286	1.83	.52	6.1	5.5	5.7
June	28.58	28.85	28.28	57.9	71.0	77.5	51.7	64.6	90	40	52	52	80	54	.390	.401	2.57	.56	5.7	6.5	5.6
July	28.58	28.86	28.21	62.4	79.4	85.9	56.4	71.2	101	43	54	51	76	39	.436	.384	1.63	.48	4.5	5.2	4.5
August	28.53	28.95	28.15	58.7	77.3	85.8	54.2	70.0	100	37	52	52	79	44	.402	.409	2.81	2.10	3.5	4.5	3.7
September	28.49	29.04	27.86	51.5	69.7	79.0	48.4	63.7	103	22	44	45	75	45	.312	.328	1.84	1.26	4.1	5.0	4.1
October	28.67	29.10	28.22	32.4	49.2	60.9	29.3	45.1	81	3	25	27	75	43	.142	.155	.22	.22	4.1	3.1	3.6
November	28.54	29.09	28.12	22.9	29.9	39.4	18.2	28.8	69	— 5	18	21	80	69	.108	.119	1.30	.48	5.6	6.7	6.4
December	28.55	29.17	27.98	14.5	23.7	33.3	10.0	21.6	56	—10	9	13	79	63	.069	.082	.20	.08	6.1	4.2	5.3
Year	28.59	29.42	27.81	35.2	48.8	57.0	30.5	43.8	103	—33	29	31	77	54	.212	.220	17.08	2.10	5.2	5.2	5.1

IDAHO FALLS, IDAHO.

[λ = 43° 29′ N.; φ = 112° 04′ W.; gravity corr., 0.]

January	25.14	25.59	24.61	13.9	20.1	25.3	8.0	16.6	40	—32	10	15	83	80	.080	.090	1.22	0.33	6.7	7.3	7.2
February	25.34	25.66	25.02	10.6	24.5	28.5	6.1	17.3	44	22	6	19	81	77	.071	.109	.05	.03	6.0	6.4	5.9
March	25.19	25.55	24.82	23.5	38.1	42.3	21.2	31.8	67	0	20	27	86	64	.112	.144	1.93	.77	5.2	6.8	5.6
April	25.25	25.61	24.85	33.2	56.3	60.2	30.0	45.1	76	15	27	26	77	36	.151	.144	.39	.27	5.0	6.1	5.4
May	25.19	25.65	24.76	42.1	61.3	65.6	37.4	51.5	81	24	36	34	78	40	.217	.202	1.82	.47	4.2	6.1	5.6
June	25.29	25.54	24.86	46.6	68.6	72.4	41.3	56.8	88	28	37	38	71	38	.224	.243	1.30	.76	4.2	6.1	4.9
July	25.26	25.42	25.00	52.4	80.3	83.6	47.2	65.4	94	35	39	30	64	19	.252	.179	.16	.07	3.0	3.9	3.8
August	25.25	25.50	25.01	51.2	82.3	86.3	47.9	67.1	94	36	37	28	60	16	.226	.163	.11	.11	3.1	3.0	2.7
September	25.23	25.50	24.87	41.7	66.5	71.6	39.6	55.6	86	19	34	33	74	32	.203	.201	.45	.28	4.8	4.6	4.2
October	25.34	25.53	25.15	31.2	55.7	64.9	27.6	46.2	77	13	22	22	67	28	.120	.129	.06	.06	2.5	2.6	2.5
November	25.28	25.69	24.80	22.9	30.5	37.3	19.5	28.4	56	2	19	22	82	72	.106	.122	.70	.23	6.6	6.5	6.1
December	25.31	25.68	24.66	16.2	22.2	28.1	9.9	19.0	41	— 6	13	16	86	75	.084	.088	1.01	.22	6.0	7.5	7.1
Year	25.26	25.69	24.61	32.1	50.5	55.5	28.0	41.7	94	—32	25	26	76	48	.154	.151	9.20	.77	4.8	5.6	5.1

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

HAVRE, MONT.

[H = 2,477 ft.; h_t = 15 ft.; h_r = 2 ft.; h_a = 33 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	8.1	NW.	34	NE.	0	2	14	6	0	1	6	12	20	1	6	14	11	17	10	17	0	0	28	0	31	0	1
February	9.5	SW.	49	NW.	2	5	5	5	0	1	16	10	9	5	9	6	13	8	7	8	0	0	15	0	25	0	5
March	10.0	SW.	38	NW.	0	9	7	7	0	0	16	11	8	4	10	13	8	4	2	4	0	0	9	0	23	0	4
April	10.3	SW.	42	NW.	1	3	5	8	2	2	16	13	10	1	9	15	6	4	3	1	0	0	0	0	16	0	8
May	11.5	W.	37	NW.	0	5	6	7	6	1	11	15	11	0	11	18	2	6	4	2	0	1	0	0	7	3	0
June	8.4	SW.	37	NW.	0	7	7	3	2	1	17	7	14	2	4	20	6	12	8	0	1	0	0	2	0	6	0
July	7.4	W.	50	NW.	2	13	3	8	1	0	14	9	9	5	18	10	3	11	8	0	1	0	0	4	0	4	0
August	7.4	W.	30	NE.	0	5	6	6	0	1	10	15	14	5	22	7	2	1	1	0	0	0	0	5	0	1	1
September	10.3	NW.	48	NW.	2	5	4	6	2	0	11	14	14	4	7	17	6	10	6	0	0	0	0	1	6	1	6
October	8.3	NW.	39	W.	0	8	5	3	1	1	9	15	17	3	21	5	5	3	1	0	0	0	0	0	16	0	6
November	9.8	SW.	40	W.	1	10	7	2	1	0	15	11	12	2	7	8	15	7	4	5	0	1	12	0	25	1	6
December	13.6	SW.	48	SW.	3	3	7	0	1	0	26	11	14	0	10	13	8	6	4	6	0	1	15	0	28	0	3
Year	9.6	SW.	50	NW.	11	75	76	61	16	8	167	143	152	32	134	146	85	89	58	43	2	3	79	12	177	16	40

HELENA, MONT.

[H = 4,108 ft.; h_t = 88 ft.; h_r = 80 ft.; h_a = 93 ft.]

January	4.7	SW.	46	SW.	1	5	1	0	1	1	23	22	9	0	7	9	15	16	11	16	0	0	22	0	28	0	0
February	6.2	SW.	40	SW.	1	4	1	0	0	0	22	20	6	3	14	5	9	6	5	5	0	0	12	0	20	0	0
March	9.2	SW.	42	N.	1	9	1	1	1	2	26	17	5	0	15	7	9	5	2	4	0	0	4	0	22	1	0
April	8.6	SW.	36	SW.	0	2	4	1	0	2	29	14	7	0	17	5	8	4	3	1	0	0	0	0	10	1	3
May	8.2	SW.	40	W.	1	5	6	1	0	0	22	21	7	0	12	11	8	8	4	1	0	0	0	0	1	2	0
June	8.7	W.	42	N.	1	2	6	2	0	0	17	25	8	0	14	10	6	11	9	2	0	0	0	0	0	0	0
July	8.1	SW.	36	SW.	0	2	8	4	1	2	29	9	7	0	18	9	4	7	5	0	1	0	0	1	0	5	0
August	7.7	SW.	42	SW.	1	7	6	5	0	1	24	16	3	0	22	7	2	4	1	0	0	0	0	1	0	2	0
September	8.3	W.	38	W.	0	2	7	3	0	3	14	27	4	0	13	10	7	6	6	0	0	0	0	0	2	2	1
October	6.1	SW.	35	N.	0	6	3	1	2	10	28	8	3	1	16	11	4	3	3	1	0	0	0	0	10	0	0
November	8.4	SW.	45	W.	4	9	0	1	1	1	25	17	5	1	7	8	15	7	5	5	0	0	10	0	19	0	0
December	8.8	SW.	44	SW.	2	3	1	0	0	1	35	16	6	0	3	10	18	7	6	7	0	0	15	0	31	0	0
Year	7.8	SW.	46	SW.	12	57	44	19	6	23	294	212	70	5	158	102	105	84	60	42	1	0	63	2	143	13	4

HURON, S. DAK.

[H = 1,310 ft.; h_t = 63 ft.; h_r = 56 ft.; h_a = 72 ft.]

January	12.5	NW.	44	SE.	1	3	1	4	16	2	4	9	23	0	11	13	7	7	4	7	0	2	28	0	31	0	0
February	13.2	NW.	48	W.	5	7	2	1	8	5	6	10	17	0	6	10	12	12	6	10	0	1	15	0	24	0	0
March	15.2	NW.	58	SE.	6	8	7	2	12	6	6	6	15	0	10	11	10	7	3	6	1	0	8	0	26	1	0
April	15.6	SE.	56	SE.	6	7	10	3	19	2	4	2	12	1	7	15	8	11	7	1	1	0	0	0	6	5	3
May	15.3	SE.	51	SE.	8	13	2	0	15	8	2	4	18	0	5	15	11	12	9	0	3	0	0	2	6	6	0
June	13.4	SE.	55	SE.	4	6	4	0	23	6	4	2	15	0	7	17	6	11	9	0	0	0	0	0	0	8	0
July	13.3	SE.	56	W.	4	5	10	1	24	5	2	6	9	0	7	22	2	6	5	0	2	1	0	6	0	7	0
August	12.7	SE.	65	NW.	4	11	2	2	16	7	1	3	19	1	16	12	3	8	5	0	1	0	0	9	0	9	1
September	14.8	SE.	61	SE.	6	9	4	5	17	9	2	2	12	0	14	10	6	5	5	0	0	0	0	9	4	6	1
October	13.6	NW.	48	NW.	5	5	3	0	13	9	5	3	23	1	16	12	3	2	1	0	0	1	1	0	16	0	2
November	11.8	SE.	46	SW.	2	7	1	2	24	1	1	7	16	1	5	10	15	11	4	10	0	1	10	0	28	0	3
December	13.9	NW.	52	SE.	4	2	1	0	20	7	3	12	16	1	9	13	9	6	2	6	0	0	12	0	30	0	0
Year	13.8	SE.	65	NW.	55	83	47	20	207	67	40	66	195	5	113	160	92	98	60	40	8	6	74	26	171	42	10

IDAHO FALLS, IDAHO.

[H = 4,742 ft.; h_t = 10 ft.; h_r = 1 ft.; h_a = 45 ft.]

January	7.6	NW.	52	S.	1	7	2	0	2	20	6	4	20	1	5	7	19	13	9	13	0	0	22	0	31	0	0
February	6.2	NW.	25	NW.	0	7	0	1	0	6	8	5	29	0	9	7	12	2	0	1	0	0	15	0	27	0	0
March	8.8	NW.	43	S.	1	7	0	2	5	17	5	3	23	0	9	11	11	9	7	8	0	0	4	0	28	0	0
April	8.0	S.	52	S.	1	7	1	4	5	20	6	5	12	0	10	9	11	6	2	2	0	0	0	0	20	0	0
May	8.5	S.	33	NW.	0	6	4	2	5	30	4	2	9	0	11	6	14	10	8	0	0	0	0	0	5	1	0
June	8.1	S.	36	N.	0	9	0	3	3	24	7	5	9	0	11	11	8	8	2	0	0	0	0	0	2	0	0
July	8.9	S.	38	SW.	0	14	2	3	4	22	8	2	7	0	18	10	3	3	2	0	0	0	0	7	0	1	0
August	7.7	S.	46	S.	1	5	3	2	4	20	7	3	18	0	19	9	3	2	1	0	1	0	0	8	0	1	0
September	9.2	S.	37	S.	0	7	0	1	2	34	5	3	8	0	14	9	7	4	3	1	0	0	0	0	6	0	0
October	6.0	NW.	36	NW.	0	7	2	2	10	9	2	2	27	1	24	5	2	1	1	0	0	0	0	0	24	0	0
November	6.2	S.	31	NW.	0	13	2	2	3	23	2	4	10	1	8	9	13	9	6	8	0	0	7	0	27	0	0
December	7.2	S.	48	SE.	2	12	2	2	4	21	4	4	11	2	3	11	7	12	10	12	0	0	21	0	31	0	0
Year	7.7	S.	52	S.	6	101	18	24	47	246	64	42	183	5	141	104	120	79	51	45	1	0	69	15	201	3	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

INDEPENDENCE, CAL.

[λ=36° 48′ N.; φ=118° 12′ W.; gravity corr., —0.02.]

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	25.98	26.35	25.40	33.5	40.7	46.3	29.3	37.8	69	19	22	24	63	52	.122	.132	1.24	0.94	4.4	5.3	4.8
February	26.11	26.42	25.74	38.2	52.3	56.7	34.3	45.5	68	24	25	26	59	38	.133	.139	1.18	1.15	1.8	3.8	3.1
March	25.99	26.27	25.62	41.3	57.1	61.4	37.0	49.2	76	25	20	15	41	21	.107	.092	.12	.12	3.0	4.3	2.6
April	26.02	26.34	25.79	47.2	67.4	70.9	43.7	57.3	80	28	22	12	37	14	.118	.084	T.	T.	2.9	4.0	3.8
May	25.94	26.22	25.62	55.3	75.6	79.4	51.9	65.6	89	37	22	18	29	13	.127	.102	.01	.01	2.4	4.5	3.9
June	26.02	26.24	25.80	60.9	83.1	85.1	58.0	71.6	95	40	23	21	24	11	.129	.119	T.	T.	.9	2.1	1.8
July	25.97	26.17	25.73	67.6	88.7	91.1	65.0	78.0	99	54	28	28	24	12	.152	.159	T.	T.	2.5	3.7	3.3
August	25.97	26.21	25.71	62.3	87.2	91.8	60.2	76.0	102	46	37	34	41	16	.232	.207	.04	.04	.9	3.0	2.4
September	25.97	26.26	25.65	54.8	77.7	84.5	52.1	68.3	92	34	24	21	30	13	.136	.123	T.	T.	2.3	2.3	2.3
October	26.06	26.23	25.81	48.2	65.9	74.6	45.5	60.0	88	37	30	30	51	29	.172	.174	.83	.73	1.2	2.8	2.5
November	26.07	26.49	25.40	38.7	51.3	60.8	35.8	48.3	80	24	19	18	46	30	.104	.103	.67	.67	1.9	4.2	4.0
December	26.14	26.41	25.55	29.2	40.7	51.1	24.6	37.8	66	16	18	18	61	40	.096	.102	.08	.07	1.4	3.5	3.2
Year	26.02	26.49	25.40	48.1	65.6	71.1	44.8	58.0	102	16	24	22	42	24	.136	.128	4.17	1.15	2.2	3.6	3.2

INDIANAPOLIS, IND.

[λ=39° 46′ N.; φ=86° 10′ W.; gravity corr., —0.01.]

January	29.20	29.73	28.33	20.3	25.5	30.2	15.6	22.9	58	—13	14	20	77	77	.099	.115	3.12	1.05	6.7	5.8	6.5
February	29.32	29.68	28.73	16.0	25.2	29.5	13.9	21.7	68	—14	11	16	79	65	.085	.105	.86	.30	4.8	3.5	4.1
March	29.21	29.53	28.77	33.4	42.0	47.7	25.9	38.8	82	14	26	28	74	60	.145	.163	1.30	.43	5.2	4.9	5.8
April	29.17	29.62	28.76	48.5	58.9	65.7	44.7	55.2	85	31	39	42	72	56	.251	.279	1.96	.92	5.0	5.1	5.5
May	29.24	29.51	28.95	59.3	68.1	74.5	53.1	63.8	96	33	50	49	72	52	.389	.376	1.07	.68	3.8	3.5	4.7
June	29.26	29.57	29.03	71.0	79.3	86.6	64.5	75.6	100	54	58	57	66	50	.495	.473	1.49	.49	4.5	5.3	4.7
July	29.22	29.48	28.96	68.6	77.4	85.0	63.5	74.2	94	49	60	60	75	58	.533	.546	2.87	1.31	4.7	5.1	5.3
August	29.18	29.35	28.99	69.8	79.6	88.2	64.3	76.2	100	53	61	59	74	52	.547	.519	1.91	.62	4.7	4.8	4.5
September	29.27	29.48	28.98	64.4	73.5	81.3	60.2	70.8	94	35	58	58	79	60	.506	.518	7.46	6.80	3.3	2.8	4.0
October	29.29	29.68	28.85	42.0	52.2	60.4	38.4	49.4	78	22	34	32	74	46	.205	.191	.83	.40	2.8	2.2	3.1
November	29.31	29.66	28.60	38.6	43.3	49.8	34.8	42.3	73	17	32	33	78	68	.191	.197	5.81	2.65	7.0	5.5	6.9
December	29.22	29.54	28.77	31.8	35.2	40.5	27.7	34.1	62	9	27	28	82	74	.166	.164	4.86	1.13	6.2	6.3	6.7
Year	29.24	29.73	28.33	47.0	55.0	61.6	42.6	52.1	100	—14	39	40	75	60	.301	.304	33.54	6.80	4.9	4.6	5.2

JACKSONVILLE, FLA.

[λ=30° 20′ N.; φ=81° 39′ W.; gravity corr., —0.04.]

January	30.07	30.35	29.72	50.4	56.1	66.0	46.2	56.1	79	26	45	47	84	74	.334	.343	4.63	1.67	6.2	3.7	6.1
February	30.11	30.39	29.56	42.8	47.6	57.1	38.1	47.6	76	14	36	37	78	68	.238	.232	3.61	1.70	6.4	3.4	5.3
March	30.08	30.38	29.65	57.0	62.8	72.8	53.3	63.0	84	40	50	51	78	68	.382	.394	3.63	1.43	4.6	3.0	4.9
April	29.99	30.32	29.54	62.7	66.7	76.5	57.8	67.2	85	45	55	55	76	68	.443	.452	4.40	1.10	5.4	4.1	5.4
May	30.03	30.18	29.77	71.4	72.4	82.6	65.1	73.8	90	55	65	64	81	76	.634	.611	2.28	.47	4.3	4.9	5.2
June	30.04	30.21	29.90	77.2	77.7	89.9	70.5	80.2	96	62	69	68	77	72	.718	.681	4.98	2.23	3.8	5.9	4.6
July	30.03	30.17	29.84	78.6	79.7	90.6	73.1	81.8	96	70	72	72	82	77	.798	.774	11.21	4.55	4.2	7.1	5.7
August	29.99	30.16	29.87	79.8	79.4	91.9	73.9	82.9	97	70	74	73	83	80	.830	.804	2.54	.78	3.2	6.0	5.2
September	30.01	30.21	29.81	76.5	77.4	87.4	70.8	79.1	94	64	71	71	84	82	.768	.761	4.66	1.70	3.8	3.7	4.5
October	30.00	30.20	29.82	64.5	69.4	79.1	60.3	69.7	89	52	58	61	80	77	.491	.547	.58	.43	3.2	3.0	4.0
November	30.10	30.36	29.79	56.4	60.8	69.1	53.0	61.0	84	35	52	55	87	81	.422	.449	3.12	1.22	5.6	4.5	5.9
December	30.12	30.42	29.70	47.1	53.7	63.7	43.3	53.5	80	28	43	45	85	74	.298	.323	1.18	.60	4.0	3.4	3.9
Year	30.05	30.42	29.54	63.7	67.0	77.2	58.8	68.0	97	14	58	58	81	75	.530	.531	46.80	4.55	4.6	4.4	5.1

JUPITER, FLA.

[λ=26° 57′ N.; φ=80° 07′ W.; gravity corr., —0.05.]

January	30.09	30.23	29.89	61.5	65.9	72.9	57.9	65.4	83	40	57	59	87	79	.490	.511	3.83	1.59	3.5	3.5	3.8
February	30.11	30.37	29.74	54.0	59.5	66.1	50.7	58.4	84	27	48	50	81	73	.369	.392	2.75	2.04	4.8	3.9	4.5
March	30.10	30.32	29.85	66.8	68.7	75.6	61.8	68.7	87	49	60	60	78	75	.522	.532	1.59	1.09	3.5	3.8	3.9
April	30.02	30.21	29.66	70.0	69.6	77.5	63.1	70.3	85	54	61	60	75	73	.552	.534	4.02	1.12	4.6	3.5	4.5
May	30.02	30.15	29.84	77.1	74.9	82.5	70.5	76.5	88	62	70	69	78	82	.727	.716	6.10	1.87	3.7	6.0	5.2
June	30.06	30.24	29.92	79.8	78.0	85.6	73.3	79.4	89	66	72	71	78	81	.786	.772	3.85	1.70	4.4	5.9	5.3
July	30.08	30.18	29.96	81.2	79.6	87.9	74.3	81.1	95	68	74	73	78	81	.828	.811	5.88	1.87	4.6	4.2	4.9
August	30.02	30.13	29.93	81.9	79.9	87.3	75.5	81.4	93	71	75	74	79	81	.858	.828	3.86	1.72	4.2	4.1	5.1
September	29.99	30.10	29.79	80.0	78.6	85.7	73.6	79.6	89	68	73	73	81	82	.824	.803	8.99	3.37	5.3	6.4	6.0
October	29.95	30.17	29.59	75.3	76.0	80.9	70.7	75.8	85	64	69	68	82	78	.722	.697	21.03	4.60	6.3	6.1	6.3
November	30.04	30.28	29.79	70.9	72.0	78.0	65.9	72.0	83	48	66	66	84	80	.643	.641	4.80	1.74	5.2	5.4	5.8
December	30.10	30.31	29.80	61.7	64.3	70.3	58.6	64.4	81	39	55	55	80	74	.464	.460	6.27	4.17	4.9	4.1	4.8
Year	30.05	30.37	29.59	71.7	72.2	79.2	66.3	72.8	95	27	65	65	80	78	.649	.641	72.47	4.60	4.6	4.7	5.0

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

INDEPENDENCE, CAL.

[H = 3,834 ft.; h_t = 10 ft.; h_r = 4 ft.; h_a = 58 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	8.6	NW.	48	SE.	3	8	1	2	3	10	3	9	26	0	11	10	10	7	4	1	0	0	1	0	21	0	0
February	8.7	NW.	34	N.	0	12	0	1	5	4	4	8	22	0	17	7	4	4	2	0	0	0	0	0	8	0	0
March	9.8	NW.	44	SE.	2	9	0	4	11	6	4	4	24	0	15	10	6	2	2	0	0	0	0	0	9	0	0
April	9.5	NW.	35	NW.	0	14	1	1	8	3	1	9	22	1	17	7	6	0	0	0	0	0	0	0	1	0	0
May	10.2	NW.	48	NW.	1	6	1	1	8	2	6	15	23	0	15	8	8	1	0	0	0	0	0	0	0	0	0
June	9.2	NW.	34	N.	0	9	2	2	11	2	4	6	24	0	23	5	2	0	0	0	0	0	0	7	0	0	0
July	8.2	SE.	28	NW.	0	4	0	0	21	3	5	8	21	0	18	6	7	0	0	0	0	0	0	15	0	3	0
August	7.7	SE.	32	N.	0	4	1	2	20	2	1	14	18	0	22	5	4	1	1	0	0	0	0	24	0	1	0
September	8.7	NW.	46	N.	2	2	0	1	18	2	6	7	24	0	21	5	4	0	0	0	0	0	0	7	0	0	0
October	6.3	NW.	30	NW	0	4	2	1	13	4	1	7	30	0	20	7	4	4	2	0	0	0	0	0	0	0	0
November	9.0	NW.	50	N.	1	4	0	0	3	6	8	6	33	0	15	8	7	1	1	0	0	0	0	0	12	0	0
December	6.1	NW.	53	N.	2	3	1	1	5	11	3	14	24	0	18	6	7	2	1	0	0	0	0	0	30	0	0
Year	8.5	NW.	53	N.	11	79	9	16	126	55	46	107	291	1	212	84	69	22	13	1	0	0	1	53	81	4	0

INDIANAPOLIS, IND.

[H=766 ft.; h_t=75 ft.; h_r=72 ft.; h_a=87 ft.]

Month.	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.
January	7.7	SW.	30	SW.	0	3	4	3	9	7	13	10	13	0	8	6	17	14	13	10	0	1	16	0	30	0	0
February	6.9	NW.	30	SW.	0	3	6	1	1	4	10	14	16	1	14	9	5	6	6	4	0	1	15	0	24	0	0
March	8.4	NE.	34	W.	0	6	13	1	6	9	11	8	8	0	7	12	12	11	8	6	0	1	4	0	18	0	0
April	6.9	NE.	30	SE.	0	5	14	9	10	2	8	2	10	0	6	13	11	11	11	1	0	0	0	0	1	1	0
May	6.5	S.	30	NW.	0	6	3	0	16	12	13	1	10	1	11	14	6	11	6	0	0	0	0	5	0	3	0
June	5.7	SE.	24	N.	0	4	8	5	13	10	7	3	10	0	13	10	7	11	9	0	0	1	0	9	0	5	0
July	5.1	S.	30	W.	0	9	4	4	4	12	9	5	12	3	8	14	9	13	12	0	1	0	0	4	0	7	0
August	4.6	SW.	28	NW.	0	8	5	3	2	11	12	9	9	3	14	11	6	8	4	0	0	0	0	13	0	8	0
September	5.5	SW.	24	W.	0	3	4	3	9	13	8	3	15	2	15	10	5	5	3	0	0	0	0	8	0	7	0
October	5.9	NW.	24	W.	0	5	8	1	5	6	11	6	19	1	19	7	5	6	4	0	0	0	0	0	9	0	0
November	6.4	SE.	33	SW.	0	0	9	2	22	8	4	5	10	0	6	7	17	14	10	3	0	0	2	0	12	1	0
December	7.6	S.	23	SE.	0	4	4	1	15	15	7	4	12	0	4	11	16	16	13	7	0	0	9	0	20	0	0
Year	6.4	NW.	34	W.	0	56	82	33	112	109	113	70	144	11	125	124	116	126	99	31	1	4	46	39	114	32	0

JACKSONVILLE, FLA.

H=43 ft.; h_t=69 ft.; h_r=59 ft.; h_a=84 ft.]

Month.	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.
January	7.3	NE.	31	SW.	0	4	13	4	4	10	9	8	10	0	10	7	14	12	8	0	1	3	0	0	4	3	0
February	8.3	W.	33	W.	0	10	9	2	1	5	5	12	12	0	12	5	11	7	7	0	0	0	1	0	6	1	0
March	8.4	SW.	42	SW.	1	2	12	6	9	6	16	5	6	0	14	6	11	7	6	0	0	1	0	0	0	4	0
April	8.5	SE.	31	S.	0	6	8	2	13	8	14	3	6	0	9	9	12	13	12	0	0	0	0	0	0	7	0
May	6.7	NE.	30	SE.	0	7	17	13	11	1	5	5	3	0	10	13	8	14	11	0	0	0	0	0	0	5	0
June	6.9	SW.	50	SE.	1	1	9	2	13	10	14	8	3	0	14	11	5	12	12	0	0	0	0	19	0	12	0
July	7.3	SW.	30	SW.	0	3	1	2	9	11	30	4	2	0	1	27	3	16	14	0	0	0	0	19	0	18	0
August	6.5	SW.	34	S.	0	2	1	9	15	11	19	5	0	0	4	26	1	16	14	0	0	0	0	22	0	12	0
September	6.2	NE.	34	W.	0	10	15	18	7	1	4	1	4	0	15	10	5	9	9	0	0	0	0	4	0	4	0
October	7.5	NE.	26	N.	0	12	27	2	5	0	6	1	9	0	19	6	6	4	2	0	0	0	0	0	0	0	0
November	7.3	N.	25	N.	0	22	13	3	4	1	2	7	8	0	10	8	12	13	8	0	0	2	0	0	0	1	0
December	6.7	NE.	37	SW.	0	8	14	4	7	3	3	9	14	0	14	11	6	7	3	0	0	0	0	0	4	0	0
Year	7.3	NE.	50	SE.	2	87	139	67	98	67	127	68	77	0	132	139	94	130	106	0	1	6	1	64	14	67	0

JUPITER, FLA.

[H=28 ft.; h_t=13 ft.; h_r=1 ft.; h_a=30 ft.]

Month.	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.
January	9.2	S.	36	SE.	0	7	2	3	10	14	5	7	14	0	16	12	3	9	7	0	0	1	0	0	0	1	0
February	10.1	NW.	33	W.	0	8	4	3	2	7	5	6	26	0	14	7	7	8	5	0	0	0	0	0	2	0	0
March	10.9	S.	31	S.	0	3	5	11	9	14	7	2	11	0	17	9	5	7	6	0	0	1	0	0	0	1	0
April	10.8	S.	31	SW.	0	5	6	7	9	12	6	7	7	1	14	9	7	10	9	0	0	0	0	0	0	6	0
May	8.4	E.	25	SE.	0	3	13	14	10	7	9	3	3	0	10	12	9	15	12	0	0	0	0	0	0	14	0
June	7.6	S.	29	NE.	0	2	7	11	11	12	8	3	6	0	4	20	6	10	8	0	0	0	0	0	0	11	0
July	7.2	S.	25	SW.	0	1	2	2	17	17	9	11	3	0	9	19	3	14	12	0	0	0	0	5	0	12	0
August	7.3	S.	26	E.	0	2	1	15	12	15	7	5	4	1	8	20	3	20	14	0	0	0	0	2	0	15	0
September	9.0	NE.	30	NE.	0	3	13	12	7	9	6	1	8	1	5	16	9	22	18	0	0	0	0	0	0	11	0
October	14.3	NE.	55	N.	2	7	20	15	2	4	2	2	10	0	7	10	14	16	15	0	0	0	0	0	0	1	0
November	10.4	N.	30	NW.	0	13	11	7	2	10	3	1	13	0	6	14	10	12	10	0	0	0	0	0	0	2	0
December	11.3	NW.	33	E.	0	4	3	16	4	4	2	11	18	0	7	20	4	13	9	0	0	1	0	0	0	0	0
Year	9.7	S.	55	N.	2	53	87	116	95	125	69	59	123	3	117	168	80	156	125	0	0	3	0	7	2	74	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

KANSAS CITY, MO.

[λ=39° 5′ N.; φ=94° 37′ W.; gravity corr., —0.01.]

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	29.05	29.71	28.50	19.1	27.7	32.4	15.7	24.0	65	— 8	14	20	78	74	.096	.121	0.32	0.24	3.7	3.2	4.5
February	29.20	29.61	28.63	19.6	28.8	32.8	17.0	24.9	64	—12	15	23	81	80	.108	.153	.59	.22	4.4	5.6	5.5
March	29.02	29.38	28.58	35.7	46.0	52.2	32.3	42.2	88	8	27	35	71	70	.164	.229	.95	.70	4.0	5.3	4.6
April	28.93	29.30	28.32	52.2	64.2	69.9	49.2	59.6	85	33	42	43	69	51	.272	.291	1.19	.62	4.6	5.4	4.9
May	28.97	29.32	28.60	58.3	68.4	75.9	54.9	65.4	90	39	50	51	74	56	.386	.403	3.88	.81	4.4	5.4	4.8
June	29.03	29.21	28.80	67.8	76.4	81.7	64.2	73.0	91	54	61	62	78	64	.542	.572	7.72	3.72	4.6	5.2	5.0
July	29.01	29.28	28.69	68.8	77.1	82.1	66.3	74.2	95	54	64	65	85	68	.605	.636	9.64	4.57	5.0	5.2	5.8
August	28.98	29.23	28.81	69.1	77.6	83.5	67.1	75.3	93	59	64	67	85	70	.607	.663	7.21	1.91	4.5	4.1	5.0
September	29.00	29.38	28.64	66.2	75.1	82.8	63.6	73.2	96	37	58	59	76	59	.530	.556	1.43	.58	3.4	2.5	2.7
October	29.13	29.46	28.65	44.0	57.0	63.5	43.0	53.2	80	26	34	33	68	42	.202	.203	.12	.09	2.8	2.0	2.8
November	29.08	29.42	28.56	35.4	44.2	48.8	33.4	41.1	75	10	29	34	78	70	.168	.206	3.05	1.92	5.7	5.1	5.6
December	29.02	29.41	28.40	29.4	34.3	39.6	25.7	32.6	63	6	25	28	82	78	.142	.157	5.12	1.83	4.9	4.9	5.9
Year	29.04	29.71	28.32	47.1	56.4	62.1	44.4	53.2	96	—12	40	43	77	65	.318	.349	41.22	4.57	4.3	4.5	4.8

KEOKUK, IOWA.

[λ=40° 22′ N.; φ=91° 26′ W.; gravity corr., —0.01.]

Month.	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.
January	29.39	30.06	28.57	14.1	22.3	28.3	10.8	19.6	61	—11	10	15	82	72	.077	.091	1.44	1.09	4.7	3.0	3.8
February	29.53	29.93	28.88	12.0	22.7	27.8	9.7	18.8	68	—22	7	15	78	73	.078	.110	.19	.10	3.7	3.3	3.7
March	29.38	29.70	28.91	32.4	41.1	47.6	23.3	38.0	84	8	23	25	67	55	.128	.141	1.05	.65	4.0	4.7	4.4
April	29.31	29.62	28.85	48.7	58.5	65.3	44.9	55.1	88	31	40	42	74	57	.260	.274	3.38	1.06	4.1	4.6	4.5
May	29.34	29.67	29.04	58.4	66.2	73.6	53.7	63.6	90	35	48	50	71	58	.369	.395	3.15	1.05	3.4	4.2	3.9
June	29.37	29.59	29.16	69.3	77.4	83.5	63.1	73.3	92	52	58	58	68	55	.490	.500	2.61	.86	3.5	4.2	4.3
July	29.35	29.59	29.02	68.9	77.7	83.6	64.0	73.8	96	54	60	61	73	58	.520	.555	5.46	1.73	3.9	3.9	4.7
August	29.30	29.57	29.10	69.2	79.3	85.5	65.9	75.7	94	58	61	62	76	57	.545	.564	2.68	1.16	4.4	3.0	3.9
September	29.35	29.71	28.98	64.2	72.6	81.0	60.4	70.7	95	36	56	57	77	59	.489	.503	2.67	1.09	2.7	2.5	3.0
October	29.45	29.81	28.97	41.2	52.2	61.3	38.6	50.0	77	20	31	32	66	47	.188	.194	.37	.15	2.6	2.0	2.2
November	29.44	29.74	29.00	33.9	40.0	45.7	31.4	38.6	73	7	27	30	75	70	.152	.175	2.58	1.27	4.8	6.2	6.1
December	29.34	29.76	28.60	28.2	32.2	37.7	24.3	31.0	63	2	22	26	78	76	.129	.149	4.24	1.44	6.1	5.5	6.3
Year	29.38	30.06	28.57	45.0	53.5	60.1	41.3	50.7	96	—22	37	39	74	61	.285	.304	29.82	1.73	4.0	3.9	4.2

KEY WEST, FLA.

[λ=24° 34′ N.; φ=81° 49′ W.; gravity corr., —0.05.]

Month.	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.
January	30.11	30.25	29.88	67.6	68.5	73.2	64.9	69.0	79	53	62	63	82	83	.560	.585	3.26	2.04	3.5	1.7	3.5
February	30.14	30.40	29.82	62.7	63.9	68.2	59.6	63.9	80	49	55	56	77	75	.454	.461	2.62	1.60	5.4	4.0	5.1
March	30.11	30.25	29.92	71.7	71.7	76.6	68.3	72.4	81	57	64	64	77	78	.606	.610	1.34	1.02	3.8	3.2	3.5
April	30.04	30.20	29.78	73.6	73.3	78.1	69.8	74.0	84	64	64	65	74	75	.613	.621	1.87	1.11	3.4	2.7	3.1
May	30.02	30.13	29.90	80.0	79.5	84.3	75.5	79.9	88	67	71	70	74	74	.760	.745	1.41	.52	4.3	3.8	4.1
June	30.07	30.20	29.97	82.0	81.3	86.3	77.1	81.7	90	69	72	72	72	74	.782	.782	2.92	1.13	4.8	4.8	4.6
July	30.10	30.18	30.01	83.5	83.0	88.6	78.7	83.6	91	73	73	73	70	72	.803	.805	.62	.17	5.2	4.5	4.9
August	30.03	30.11	29.96	83.1	82.9	87.8	78.1	83.0	90	70	74	74	74	74	.831	.825	4.92	1.28	5.7	5.5	5.5
September	29.99	30.07	29.79	82.2	82.1	87.2	76.7	82.0	90	71	74	74	76	76	.828	.826	4.41	.98	6.3	5.4	5.8
October	29.95	30.17	29.59	78.1	78.7	82.1	75.2	78.6	87	70	72	72	82	81	.787	.791	4.77	1.94	6.0	4.9	5.3
November	30.05	30.22	29.88	73.7	74.9	78.3	71.2	74.8	85	63	68	68	83	80	.694	.693	.24	.07	6.1	3.9	4.7
December	30.11	30.31	29.89	66.9	67.5	71.5	64.1	67.8	80	52	60	60	78	77	.524	.530	.81	.49	5.5	5.1	5.0
Year	30.06	30.40	29.59	75.4	75.6	80.2	71.6	75.9	91	49	67	68	77	77	.687	.690	29.19	2.04	5.0	4.1	4.6

KITTY HAWK, N. C.

[λ=36° 0′ N.; φ=75° 42′ W.; gravity corr., —0.02.]

Month.	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.
January	30.06	30.40	29.49	41.5	43.1	48.6	36.5	42.6	67	22	35	35	78	75	.223	.218	5.94	1.89	5.7	4.3	5.2
February	30.03	30.51	29.27	31.2	33.9	39.9	26.7	33.3	64	6	24	25	73	72	.135	.144	3.50	1.35	4.0	3.6	4.0
March	30.02	30.49	29.55	45.7	46.5	54.4	39.5	47.0	71	30	39	40	80	79	.251	.254	6.01	1.65	4.1	3.5	4.7
April	30.00	30.55	29.42	54.8	54.0	61.8	49.0	55.5	78	38	49	49	82	85	.360	.363	4.92	1.85	3.5	3.5	4.5
May	30.04	30.29	29.67	61.5	61.5	68.0	56.2	62.1	91	45	57	56	85	85	.475	.473	3.16	1.45	3.4	3.6	5.5
June	30.02	30.30	29.82	72.6	72.3	78.4	67.8	73.1	94	56	66	68	81	86	.657	.689	3.23	1.10	3.1	3.9	3.8
July	30.00	30.15	29.81	75.7	75.6	81.9	70.7	76.3	94	64	69	70	80	83	.716	.737	6.50	2.10	3.9	4.3	4.5
August	29.98	30.17	29.76	77.5	77.6	84.4	73.0	78.7	92	65	71	72	80	84	.757	.799	2.49	1.42	3.7	4.2	3.7
September	30.04	30.31	29.77	75.6	75.4	82.0	71.3	76.6	94	56	68	68	78	79	.905	.709	.05	.03	3.0	2.7	2.5
October	30.04	30.44	29.71	59.8	60.5	65.6	54.7	60.2	79	45	51	52	74	74	.388	.398	2.15	.90	4.5	3.6	4.1
November	30.13	30.53	29.47	54.4	54.8	59.7	49.6	54.6	77	32	50	51	86	87	.385	.393	5.88	1.72	5.5	4.4	5.5
December	30.12	30.60	29.65	43.7	46.6	52.0	39.8	45.9	70	26	39	41	80	81	.238	.273	2.55	1.20	4.8	5.6	4.9
Year	30.04	30.66	29.27	57.8	58.5	64.7	52.9	58.8	94	6	52	52	80	81	.441	.454	46.38	2.10	4.1	3.9	4.4

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

KANSAS CITY, MO.

[H = 963 ft.; h_t = 78 ft.; h_r = 81 ft.; h_a = 95 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	8.3	NW.	34	NW.	0	7	8	2	15	6	8	1	14	1	14	9	8	5	1	4	0	4	14	0	28	0	0
February	9.0	NW.	36	NW.	0	4	4	3	8	9	6	1	21	0	9	8	11	9	3	7	0	0	15	0	20	0	0
March	10.7	NW.	35	NW.	0	4	8	3	13	13	6	0	15	0	13	9	9	10	5	8	0	2	4	0	18	2	0
April	9.6	SE.	37	N	0	6	6	13	15	4	4	3	9	0	10	13	7	8	8	2	0	0	0	0	0	2	0
May	10.5	S.	40	N.	3	2	11	0	17	23	4	1	4	0	9	16	6	11	11	0	2	0	0	1	0	11	0
June	8.3	NE.	38	NW.	0	4	16	5	13	14	2	1	4	1	9	14	7	11	10	0	1	1	0	2	0	11	0
July	7.7	NE.	38	N.	0	3	18	4	14	10	8	2	3	0	7	11	13	10	9	0	2	1	0	5	0	9	0
August	7.0	S.	40	NW.	1	6	14	1	8	16	9	2	5	1	12	12	7	13	11	0	0	1	0	3	0	13	0
September	10.5	S.	36	SW.	0	5	5	1	14	25	8	0	2	0	18	10	2	5	5	0	1	0	0	11	0	4	0
October	7.7	SW.	33	NW.	0	9	6	2	5	14	15	1	10	0	21	5	5	2	1	0	0	0	0	0	3	0	0
November	9.7	S.	38	NW.	0	8	10	0	10	19	2	2	9	0	9	10	11	7	5	2	0	0	5	0	14	0	0
December	9.8	N.	37	NW.	0	13	8	2	6	8	9	3	13	0	10	9	12	10	8	6	0	1	5	0	23	1	0
Year	9.1	S.	40	NW.	4	71	114	36	138	161	81	17	109	3	141	126	98	101	77	29	6	10	43	22	106	53	0

KEOKUK, IOWA.

[H = 613 ft.; h_t = 64 ft.; h_r = 56 ft.; h_a = 78 ft.]

Month.	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.
January	8.4	NW.	42	W.	1	5	3	5	6	5	10	6	20	2	15	9	7	7	3	5	0	2	19	0	30	1	0
February	7.9	SW.	26	SW.	0	5	2	3	2	2	19	6	17	0	15	6	7	6	2	5	0	0	15	0	23	0	0
March	10.3	SW.	36	SW.	0	10	5	7	6	3	15	8	7	1	17	5	9	7	5	5	0	0	6	0	20	1	0
April	8.0	SE.	38	W.	0	12	10	6	14	5	6	2	5	0	12	9	9	13	8	0	2	0	0	0	2	5	0
May	8.6	SW.	30	NW.	0	2	1	4	10	11	22	1	11	0	14	12	5	12	12	0	0	0	0	1	0	5	0
June	6.5	S.	38	SW.	0	6	6	5	5	12	9	5	11	1	12	11	7	8	7	0	0	0	0	2	0	6	0
July	6.1	SW.	34	NE.	0	8	5	3	11	7	10	3	6	0	12	14	5	10	10	0	0	1	0	3	0	11	0
August	5.9	SW.	24	SW.	0	6	2	2	2	8	27	4	10	1	16	9	6	5	5	0	0	0	0	9	0	2	0
September	8.7	SW.	42	W.	2	4	1	4	7	16	17	4	7	0	18	9	3	7	6	0	1	0	0	9	0	6	0
October	7.6	SW.	36	W.	0	8	3	2	4	6	16	9	12	2	23	5	3	3	3	0	0	1	0	0	7	1	0
November		N.	25	S.	0	11	5	2	8	11	8	5	9	1	9	5	16	14	9	6	0	1	4	0	16	0	1
December		SW.	28	SE.	0	12	5	1	4	5	16	6	11	2	9	6	16	11	10	3	0	3	8	0	22	0	0
Year	7.9	SW.	42	W.	3	89	48	44	79	91	184	59	126	10	172	100	93	103	80	24	3	8	52	24	120	38	1

KEY WEST, FLA.

[H = 22 ft.; h_t = 42 ft.; h_r = 44 ft.; h_a = 50 ft.]

Month.	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.
January	8.2	NE.	31	NW.	0	9	18	14	12	5	2	0	2	0	18	9	4	6	6	0	0	0	0	0	0	4	0
February	13.0	NE.	39	NW.	0	14	13	13	5	3	1	2	5	0	13	6	9	9	6	0	0	0	0	0	0	3	0
March	10.8	E.	36	NW.	0	5	9	23	13	3	3	1	5	0	17	12	2	4	3	0	0	0	0	0	0	1	0
April	11.5	E.	42	NW.	2	10	11	15	9	6	3	1	5	0	18	10	2	8	7	0	0	0	0	0	0	6	0
May	8.2	E.	37	E.	0	4	10	22	14	7	2	0	3	0	14	14	3	7	6	0	0	0	0	0	0	4	0
June	7.3	E.	36	S.	0	5	6	17	16	4	0	6	5	1	13	12	5	8	6	0	0	0	0	0	0	4	0
July	6.3	E.	25	NE.	0	6	6	24	12	8	2	1	2	1	8	19	4	8	5	0	0	0	0	3	0	11	0
August	7.7	E.	26	NE.	0	4	2	24	19	5	1	1	5	1	6	20	5	14	12	0	0	0	0	0	0	13	0
September	7.4	E.	31	NE.	0	2	8	26	15	5	1	1	1	1	4	23	3	21	13	0	0	0	0	0	0	14	0
October	12.8	NE.	49	N.	2	10	25	17	4	1	2	1	2	0	12	8	11	14	10	0	0	0	0	0	0	0	0
November	11.3	NE.	36	N.	0	16	30	7	3	1	0	2	1	0	12	12	6	6	3	0	0	0	0	0	0	2	0
December	13.3	NE.	43	NW.	2	16	22	10	4	1	0	2	7	0	13	10	8	8	3	0	0	1	0	0	0	1	0
Year	9.8	E.	49	N.	6	101	160	212	126	49	17	18	43	4	148	155	62	113	80	0	0	1	0	3	0	63	0

KITTY HAWK, N. C.

[H = 9 ft.; h_t = 12 ft.; h_r = 2 ft.; h_a = 30 ft.]

Month.	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.
January	15.7	NE.	56	SE.	10	6	16	2	2	3	13	8	12	0	12	7	12	13	11	0	0	4	1	0	6	0	0
February	17.7	NE.	56	NW.	6	8	17	1	0	0	9	6	13	2	16	5	7	9	7	2	0	3	6	0	20	0	0
March	16.6	SW.	54	N.	6	8	16	5	5	0	18	3	7	0	14	7	10	13	11	1	0	7	0	0	2	1	0
April	14.7	SW.	52	SE.	4	5	11	2	12	10	13	1	6	0	14	7	9	14	10	0	0	4	0	0	0	2	0
May	13.2	NE.	50	NE.	4	7	19	6	11	0	11	5	3	0	12	7	12	16	13	0	0	9	0	1	0	5	0
June	14.5	SW.	48	NE.	2	7	15	4	8	4	16	4	2	0	18	7	5	10	7	0	0	3	0	3	0	6	0
July	12.8	NE.	45	SW.	2	5	19	1	3	8	18	6	2	0	14	6	11	10	10	0	0	0	0	3	0	6	0
August	10.8	SW.	33	N.	0	2	4	4	15	4	19	9	5	0	20	5	6	11	7	0	0	0	0	4	0	5	0
September	12.8	NE.	48	NE.	1	1	17	5	11	4	15	4	3	0	24	4	2	2	0	0	0	0	0	3	0	1	0
October	17.8	NE.	52	NE.	9	7	15	8	3	3	13	4	9	0	17	6	8	4	3	0	0	0	0	0	0	0	0
November	18.3	NE.	59	N.	7	9	18	2	2	1	18	3	7	0	9	10	11	16	13	0	0	6	0	0	1	0	1
December	16.7	SW.	66	N.	8	12	12	3	2	6	14	3	10	0	12	9	10	12	9	0	0	3	0	0	4	1	0
Year	15.1	NE.	66	N.	59	77	179	43	74	43	177	56	79	2	182	80	103	130	101	3	0	39	7	14	33	27	1

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

KNOXVILLE, TENN.

[λ = 35° 56′ N.; φ = 83° 58′ W.; gravity corr., — 0.02.]

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	29.03	29.35	28.53	31.4	37.7	42.1	28.4	35.2	59	— 3	26	29	80	72	.151	.167	6.72	1.80	6.2	5.3	6.4
February	29.12	29.41	28.69	24.6	34.1	38.8	22.2	30.5	71	— 7	18	20	73	58	.100	.116	1.95	.70	5.6	4.0	4.4
March	29.04	29.39	28.58	41.7	50.7	57.6	38.0	47.8	83	24	34	34	74	58	.200	.214	4.65	1.45	5.6	4.2	5.6
April	28.98	29.41	28.59	52.7	62.6	69.0	48.2	58.6	84	32	44	41	72	49	.292	.276	3.36	1.75	4.1	4.8	4.9
May	29.06	29.28	28.77	59.3	66.1	74.5	53.7	64.1	92	38	54	57	82	73	.430	.475	5.63	2.03	4.2	4.2	4.9
June	29.06	29.29	28.88	70.5	78.3	86.5	64.3	75.4	96	53	63	64	79	64	.589	.613	3.39	1.19	2.9	3.6	4.0
July	29.03	29.22	28.64	70.7	77.0	84.4	66.6	75.5	94	60	66	67	86	72	.642	.670	4.50	1.15	5.4	5.1	5.6
August	29.01	29.18	28.86	71.3	77.6	86.7	66.9	76.8	91	55	67	68	86	74	.669	.699	1.89	.67	3.6	3.7	4.5
September	29.08	29.27	28.91	68.1	76.7	85.5	64.1	74.8	93	42	63	64	83	66	.586	.622	.59	.48	2.9	1.4	2.9
October	29.09	29.35	28.79	45.7	58.9	67.5	42.2	54.8	80	32	38	40	76	51	.239	.257	1.24	.57	2.6	2.3	2.3
November	29.14	29.49	28.70	42.3	52.1	59.6	39.3	49.4	76	26	37	40	82	64	.234	.260	1.90	1.39	4.4	4.3	4.7
December	29.09	29.47	28.54	35.6	42.9	49.5	31.7	40.6	68	14	30	33	79	68	.175	.196	2.93	.59	6.9	5.3	5.8
Year	29.06	29.49	28.53	51.2	59.6	66.8	47.1	57.0	96	— 7	45	46	79	64	.359	.380	38.75	2.03	4.5	4.0	4.7

LA CROSSE, WIS.

[λ = 43° 49′ N.; φ = 91° 15′ W.; gravity corr., 0.]

January	29.25	29.98	28.42	6.9	12.8	19.8	1.6	10.7	41	—17	4	8	88	80	.056	.068	1.22	0.41	5.7	4.3	5.4
February	29.36	29.76	28.47	4.7	17.1	22.5	2.5	12.5	57	—24	2	12	89	79	.066	.094	.69	.35	5.3	2.9	4.8
March	29.25	29.69	28.72	23.8	33.7	39.7	20.9	30.3	70	— 1	14	21	66	63	.086	.114	.39	.17	4.2	4.5	4.5
April	29.23	29.51	28.79	45.2	58.2	63.9	41.2	52.6	86	25	34	36	68	46	.204	.225	1.07	.39	5.3	4.3	5.0
May	29.19	29.59	28.79	54.4	63.6	71.0	49.7	60.4	92	30	47	50	78	64	.358	.393	4.04	.97	3.7	5.9	5.5
June	29.25	29.48	28.95	63.9	73.0	79.9	58.8	69.4	90	46	56	59	77	64	.466	.517	3.95	1.09	4.0	4.2	4.7
July	29.24	29.50	28.87	63.5	76.6	82.1	59.5	70.8	92	46	57	59	79	56	.468	.514	2.19	1.87	3.6	3.1	4.0
August	29.17	29.47	28.91	62.9	75.7	83.6	59.6	71.6	95	50	57	59	82	58	.482	.514	2.66	1.73	4.4	3.5	4.1
September	29.18	29.55	28.74	60.5	69.0	78.4	56.8	67.6	97	35	53	56	78	65	.441	.482	2.41	.96	4.2	4.2	5.2
October	29.28	29.67	28.76	37.7	46.6	54.9	34.9	44.9	72	13	29	34	72	64	.166	.206	.54	.29	3.5	3.6	4.6
November	29.31	29.65	28.88	28.4	35.5	40.6	26.5	33.6	70	5	24	28	85	76	.135	.160	1.45	.66	6.6	5.6	6.4
December	29.20	29.60	28.68	21.6	24.3	31.0	17.5	24.2	52	— 9	18	20	84	81	.108	.112	2.36	2.11	6.7	4.5	6.4
Year	29.24	29.98	28.42	39.5	48.8	55.6	35.8	45.7	97	—24	33	37	79	66	.253	.283	22.97	2.11	4.8	4.2	5.0

LANDER, WYO.

[λ = 42° 50′ N.; φ = 108° 45′ W.; gravity corr., — 0.01.]

January	24.47	24.88	24.11	8.3	21.2	32.5	4.3	18.4	57	—28	1	8	70	58	.048	.061	0.68	0.61	2.4	5.0	4.7
February	24.66	24.97	24.34	8.3	23.8	33.7	5.3	19.5	64	—28	2	12	74	61	.061	.082	.21	.10	3.2	4.4	4.4
March	24.54	24.97	24.18	20.4	37.0	44.2	17.7	31.0	70	— 7	11	15	68	44	.074	.085	1.17	.46	4.8	5.3	4.9
April	24.62	25.02	24.18	33.0	56.5	61.6	30.8	46.2	75	21	23	13	67	23	.124	.088	5.71	3.45	4.1	4.3	4.4
May	24.59	25.05	24.12	41.7	59.8	64.6	37.6	51.1	78	28	33	27	72	36	.186	.154	1.32	.48	4.6	6.1	5.4
June	24.70	24.90	24.34	48.1	64.8	70.2	42.4	56.3	87	29	37	33	70	35	.227	.198	1.90	.87	4.7	6.4	5.4
July	24.70	24.94	24.48	52.6	74.4	79.1	48.0	63.6	91	36	41	36	67	28	.260	.216	.19	.06	3.9	5.6	4.7
August	24.70	24.94	24.42	51.5	76.0	81.4	48.2	64.8	89	39	40	41	68	33	.255	.273	1.04	.73	3.9	4.4	4.1
September	24.64	25.06	24.23	41.6	63.3	70.6	38.6	54.6	88	7	30	28	68	33	.171	.159	1.74	1.63	3.0	3.2	3.4
October	24.76	24.98	24.50	29.3	45.7	58.7	27.8	43.2	72	10	24	29	78	53	.130	.164	1.00	.75	3.2	2.3	2.9
November	24.63	24.91	24.22	18.0	24.7	38.3	11.9	25.1	66	—12	12	16	76	71	.076	.090	2.30	1.18	5.4	3.7	4.7
December	24.59	24.93	24.02	10.2	20.8	31.8	5.6	18.7	49	—11	5	10	77	63	.052	.070	T.	T.	2.6	3.6	4.3
Year	24.63	25.06	24.02	30.2	47.3	55.6	26.5	41.0	91	—28	22	22	71	45	.139	.137	17.26	3.45	3.8	4.5	4.4

LEXINGTON, KY.

[λ = 38° 02′ N.; φ = 84° 33′ W.; gravity corr., —0.02.]

January	28.97	29.36	28.24	25.9	31.2	34.9	20.5	27.7	61	—12	19	22	72	67	.120	.132	5.60	1.49	8.1	6.0	7.8
February	29.07	29.42	28.60	18.6	27.7	31.1	15.6	23.4	68	—13	10	12	66	51	.072	.090	5.52	.18	5.9	5.2	6.8
March	28.97	29.28	28.51	37.6	43.8	51.8	33.6	42.7	83	20	30	31	74	62	.174	.180	2.79	.61	6.3	5.2	6.1
April	28.93	29.33	28.54	50.9	58.0	65.2	46.3	55.8	82	30	41	41	72	58	.273	.275	3.17	1.01	5.1	5.9	6.6
May	29.02	29.24	28.70	59.3	64.4	72.1	52.5	62.3	91	33	50	49	72	60	.389	.379	4.05	1.31	5.5	5.6	6.5
June	29.02	29.28	28.82	72.1	76.7	85.1	65.8	75.4	94	50	60	59	68	58	.530	.499	2.93	1.53	3.7	5.7	5.3
July	28.99	29.21	28.68	70.1	73.7	81.7	65.0	73.4	94	52	63	62	78	69	.583	.566	5.07	1.34	6.5	6.2	5.9
August	28.95	29.11	28.77	71.6	76.1	85.7	66.0	75.8	93	54	63	64	76	67	.587	.603	1.56	.53	5.1	5.1	5.2
September	29.03	29.20	28.83	67.7	73.9	83.3	62.3	72.8	95	38	57	55	70	54	.497	.470	.33	.09	2.9	3.1	4.7
October	29.05	29.39	28.73	45.1	54.8	63.1	41.5	52.3	78	23	31	30	59	40	.184	.179	1.28	.53	2.5	3.3	3.6
November	29.08	29.42	28.49	40.4	46.6	53.7	36.4	45.0	78	20	34	36	79	67	.214	.229	2.52	.98	6.6	6.0	7.0
December	29.00	29.34	28.57	34.1	38.2	45.1	29.8	37.4	65	9	28	30	80	74	.170	.184	5.50	2.50	8.4	7.1	8.5
Year	29.01	29.42	28.24	49.4	55.4	62.7	44.6	53.7	95	—13	40	41	72	60	.316	.316	35.32	2.50	5.6	5.4	6.2

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

KNOXVILLE, TENN.

[H = 980 ft.; h_t = 80 ft.; h_r = 71 ft.; h_a = 88 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	6.3	NE.	36	SW.	0	6	19	5	0	0	7	14	6	5	10	5	16	17	15	7	0	2	3	0	17	0	0
February	5.4	SW.	29	SW.	0	6	13	5	1	0	12	12	5	2	15	3	10	6	6	6	0	0	10	0	25	0	0
March	5.9	SW.	36	SW.	0	8	17	1	1	0	21	6	6	2	11	7	13	13	12	1	1	2	0	0	8	0	0
April	5.6	E.	35	SW.	0	7	3	14	2	6	9	12	2	5	12	8	10	9	8	0	0	0	0	0	0	2	0
May	4.0	NE.	24	W.	0	6	12	13	5	4	8	9	0	5	12	8	11	15	14	0	1	2	0	1	0	5	0
June	3.8	E.	34	E.	0	1	18	15	1	2	1	11	5	6	16	7	7	7	5	0	1	2	0	8	0	4	0
July	4.3	W.	24	W.	0	4	15	5	4	2	10	16	2	4	9	12	10	10	9	0	0	2	0	3	0	4	0
August	4.0	SW.	24	SW.	0	5	16	2	5	3	17	8	1	5	15	9	7	9	7	0	0	1	0	6	0	8	0
September	3.7	SW.	22	NW.	0	14	16	1	2	1	10	2	3	11	18	8	4	4	3	0	0	0	0	9	0	1	0
October	4.1	NE.	35	SW.	0	12	19	4	1	0	3	7	11	5	24	2	5	6	6	0	0	2	0	0	1	0	0
November	4.9	SW.	36	SW.	0	13	16	5	0	2	6	8	5	5	14	7	9	9	5	0	0	0	0	0	6	0	0
December	5.3	SW.	42	SW.	1	10	8	6	1	3	21	5	6	2	10	8	13	9	8	3	0	0	2	0	15	0	0
Year	4.8	SW.	42	SW.	1	92	172	76	23	23	125	110	52	57	166	84	115	114	98	17	3	13	15	27	72	24	0

LA CROSSE, WIS.

[H = 720 ft.; h_t = 70 ft.; h_r = 61 ft.; h_a = 78 ft.]

January	7.5	S.	30	NW.	0	6	1	1	3	18	3	13	13	4	11	11	9	11	8	10	0	1	28	0	31	0	0
February	7.3	S.	33	W.	0	9	0	0	3	22	4	11	7	0	13	11	4	9	3	6	0	0	19	0	26	0	1
March	9.8	N.	38	W.	0	16	2	4	6	11	3	9	8	3	11	18	2	7	3	4	0	0	9	0	25	0	0
April	7.6	N.	30	NW.	0	21	2	5	12	7	2	4	2	5	10	16	4	7	5	0	0	0	0	0	3	2	0
May	8.3	S.	30	N.	0	11	1	0	8	30	4	4	0	4	5	22	4	17	14	0	1	1	0	3	1	5	0
June	6.2	S.	34	W.	0	2	2	1	8	21	7	4	7	8	9	18	3	12	10	0	1	1	0	0	0	7	0
July	5.1	S.	36	W.	0	10	1	3	2	18	8	2	9	9	15	12	4	5	4	0	0	0	0	3	0	4	0
August	5.9	S.	22	SW.	0	14	1	1	6	22	4	5	6	3	12	16	3	8	6	0	0	0	0	3	0	8	0
September	8.6	S.	36	S.	0	6	0	2	5	30	1	7	5	4	10	13	7	8	7	0	0	1	0	5	0	6	0
October	8.1	S.	26	W.	0	7	5	1	4	19	7	7	11	1	13	9	9	5	3	0	0	0	0	0	14	0	2
November	8.0	S.	22	S.	0	17	2	0	3	26	2	6	4	0	7	10	13	9	8	5	0	0	7	0	19	0	0
December	7.4	S.	28	W.	0	9	1	2	3	21	7	13	5	1	9	8	14	7	5	5	0	0	14	0	30	0	0
Year	7.5	S.	38	W.	0	128	18	20	63	245	52	85	77	42	125	164	76	105	76	30	2	4	77	14	149	32	3

LANDER, WYO.

[H = 5,377 ft.; h_t = 12 ft.; h_r = 16 ft.; h_a = 34 ft.]

January	4.0	SW.	48	SW.	2	4	10	1	3	9	20	6	9	0	11	15	5	5	2	5	0	0	14	0	31	0	0
February	3.2	SW.	32	W.	0	4	4	1	8	6	16	4	8	5	9	17	2	4	2	3	0	0	12	0	26	0	0
March	5.6	SW.	48	W.	1	7	5	1	3	7	17	12	8	2	8	18	5	8	6	8	0	0	5	0	28	0	0
April	5.1	SW.	30	W.	0	6	3	4	3	8	15	12	5	4	13	12	5	5	3	3	0	0	0	0	16	0	0
May	4.9	SW.	36	SW.	0	6	4	2	8	5	14	9	11	3	10	11	10	8	6	1	1	0	0	0	3	1	0
June	4.6	SW.	30	SW.	0	5	8	2	3	4	14	8	11	5	7	17	6	9	6	0	2	0	0	0	1	3	0
July	4.3	SW.	42	SW.	1	3	6	4	3	4	15	11	9	7	10	17	4	6	3	0	0	0	0	1	0	2	0
August	3.5	SW.	34	NW.	0	10	5	3	1	0	20	5	12	6	12	14	5	4	3	0	0	0	0	0	0	4	0
September	4.8	SW.	44	W.	2	6	2	1	1	6	23	11	1	9	17	9	4	3	2	2	0	0	0	0	7	1	0
October	2.2	SW.	24	NW.	0	3	1	1	2	6	22	6	5	16	19	9	3	5	5	1	0	0	0	0	21	1	0
November	2.7	SW.	24	NE.	0	5	3	1	0	8	20	6	7	10	9	16	5	5	4	5	0	2	11	0	28	0	0
December	4.1	SW.	35	W.	0	3	2	4	3	6	21	7	13	3	7	23	1	0	0	0	0	0	17	0	31	0	0
Year	4.1	SW.	48	W. SW.	6	62	53	25	38	69	217	97	99	70	132	178	55	62	42	28	3	2	59	1	192	12	0

LEXINGTON, KY.

[H = 989 ft.; h_t = 75 ft.; h_r = 2 ft.; h_a = 122 ft.]

January	15.0	S.	60	SW.	4	1	11	4	2	18	8	14	4	0	3	8	20	16	10	9	0	0	14	0	26	0	0
February	12.1	W.	48	S.	1	6	6	2	3	13	4	13	9	0	5	8	15	8	5	8	0	0	13	0	25	0	0
March	14.6	SW.	50	NW.	3	4	9	4	2	10	18	6	9	0	12	5	14	14	11	3	0	0	1	0	14	1	0
April	11.5	NE.	44	SE.	3	4	12	4	7	9	9	7	7	1	5	11	14	12	12	0	1	1	0	0	1	2	0
May	9.6	S.	48	W.	2	3	6	7	8	18	10	6	4	0	4	13	14	11	9	0	1	0	0	1	0	4	0
June	8.2	SW.	48	S.	1	2	4	12	6	5	19	2	8	2	9	15	6	6	6	0	0	0	0	5	0	3	0
July	8.6	SW.	40	N.	1	2	10	9	5	8	18	5	5	0	6	16	9	14	11	0	0	0	0	4	0	2	0
August	8.6	SW.	46	SW.	1	3	3	4	4	6	33	4	4	1	12	10	9	10	7	0	0	1	0	4	0	3	0
September	10.3	SW.	34	SW.	0	4	3	10	1	13	15	5	9	0	15	5	10	6	4	0	0	0	0	8	0	3	0
October	10.8	W.	36	S.	0	6	9	8	4	9	7	11	7	1	16	8	7	7	5	0	0	0	0	0	4	1	0
November	12.5	S.	62	S.	2	2	11	5	10	15	5	12	0	0	6	5	19	9	7	0	0	0	1	0	10	0	0
December	14.2	S.	60	SW.	2	4	4	2	6	20	18	3	5	0	2	4	25	11	9	6	0	0	5	0	18	0	0
Year	11.3	SW.	62	S.	20	41	88	71	58	144	164	88	71	5	95	108	162	124	96	26	2	2	34	22	98	19	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

LITTLE ROCK, ARK.

[λ = 34° 45′ N.; φ = 92° 06′ W.; gravity corr., —0.03.]

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	29.77	30.17	29.16	32.5	40.4	44.7	29.7	37.2	73	12	26	28	79	64	.164	.177	7.12	3.13	6.6	5.6	7.1
February	29.92	30.26	29.44	27.9	39.0	42.3	26.8	34.6	72	— 2	23	26	80	60	.137	.160	.63	.25	5.8	6.0	5.9
March	29.74	30.15	29.28	45.0	56.5	61.2	43.5	52.4	87	25	37	39	73	55	.240	.261	7.78	2.20	5.5	5.0	5.5
April	29.64	30.00	29.31	56.1	67.7	73.2	53.2	63.2	88	36	48	46	75	50	.347	.335	1.47	.90	4.1	3.4	4.9
May	29.69	29.95	29.49	62.9	72.3	77.8	59.4	68.6	88	46	56	57	80	61	.475	.490	2.85	.75	4.9	5.1	5.9
June	29.71	29.88	29.56	72.1	79.8	85.8	68.7	77.2	94	62	66	67	83	67	.656	.671	9.25	4.38	4.7	5.8	5.8
July	29.69	29.88	29.39	74.1	81.3	87.1	71.5	79.3	96	66	70	72	88	74	.750	.783	6.13	1.88	5.2	5.6	5.6
August	29.67	29.82	29.54	73.2	81.1	88.8	70.3	79.6	95	65	68	69	85	68	.695	.715	3.96	1.32	2.6	3.7	3.9
September	29.73	29.99	29.46	70.4	80.1	87.6	68.5	78.0	96	45	64	65	82	62	.638	.649	.41	.16	3.4	2.5	3.9
October	29.82	30.06	29.48	49.3	62.3	69.8	47.5	56.6	84	38	42	44	78	53	.281	.298	2.22	1.45	3.5	2.5	3.5
November	29.83	30.12	29.40	43.5	53.0	58.8	41.6	50.2	76	28	40	42	87	69	.259	.285	5.26	1.67	5.1	4.8	5.7
December	29.77	30.11	29.16	38.6	46.4	52.2	36.1	44.2	69	17	34	36	83	69	.218	.234	2.50	1.01	5.2	4.5	5.9
Year	29.75	30.26	29.16	53.8	63.3	69.1	51.4	60.3	96	— 2	48	49	81	63	.405	.422	49.58	4.38	4.7	4.5	5.3

LOS ANGELES, CAL.

[λ = 34° 03′ N.; φ = 118° 15′ W.; gravity corr., —0.03.]

January	29.66	29.96	29.29	47.1	54.9	60.9	43.6	52.2	77	37	40	46	77	75	.251	.320	5.84	1.81	3.6	4.8	5.2
February	29.72	30.08	29.53	48.9	60.5	67.9	45.8	56.8	84	36	40	47	74	64	.251	.322	.46	.26	3.5	4.0	4.3
March	29.69	29.86	29.49	48.3	57.8	65.4	45.6	55.5	84	38	43	47	84	70	.283	.334	3.77	2.25	4.1	4.5	5.1
April	29.68	29.88	29.49	50.5	61.5	69.4	48.2	58.8	82	41	45	48	84	64	.307	.337	.46	.29	4.9	3.8	4.9
May	29.59	29.72	29.44	54.9	66.2	73.9	53.2	63.6	88	47	51	53	88	64	.379	.409	.19	.13	4.8	2.4	4.4
June	29.60	29.69	29.52	56.0	70.0	77.4	54.4	65.9	100	47	52	54	87	59	.393	.421	.01	.01	5.4	.2	3.2
July	29.60	29.69	29.51	59.5	70.3	78.7	58.1	68.4	85	54	57	59	92	67	.468	.493	T.	T.	6.5	.2	3.8
August	29.57	29.72	29.44	59.0	70.4	80.2	57.3	68.8	88	51	56	59	92	68	.459	.501	T.	T.	2.9	.5	3.5
September	29.55	29.64	29.44	58.1	70.9	82.7	55.0	68.8	97	48	48	54	76	60	.353	.433	T.	T.	2.7	1.3	3.1
October	29.61	29.76	29.29	57.5	65.3	76.3	55.0	65.6	91	45	54	57	88	76	.414	.466	.24	.20	4.9	1.5	3.9
November	29.67	29.95	29.36	52.2	62.2	72.6	47.6	60.1	94	36	37	46	60	59	.227	.313	.80	.40	1.0	2.0	1.8
December	29.77	30.08	29.49	48.4	58.6	68.9	43.9	56.4	86	34	31	42	56	59	.182	.282	.78	.45	.8	2.6	2.4
Year	29.64	30.08	29.29	53.4	64.0	72.9	50.6	61.7	100	34	46	51	80	65	.331	.386	12.55	2.25	3.8	2.3	3.8

LOUISVILLE, KY.

[λ = 38° 15′ N.; φ = 85° 45′ W.; gravity corr., —0.02.]

January	29.49	29.92	28.64	26.3	32.1	36.4	21.9	29.2	62	—10	20	24	77	71	.127	.144	4.54	1.15	7.4	5.7	6.7
February	29.61	29.95	29.06	20.1	30.4	34.8	18.4	26.6	70	—10	14	18	75	58	.094	.106	.64	.39	4.9	3.6	4.9
March	29.48	29.81	29.02	38.4	47.0	53.2	34.8	44.0	86	21	30	32	71	58	.171	.186	2.10	.58	5.1	4.8	5.4
April	29.42	29.84	29.07	51.9	61.6	68.2	48.0	58.1	85	34	41	43	68	54	.270	.291	3.10	1.08	4.9	4.9	5.2
May	29.50	29.76	29.21	60.5	68.7	75.7	55.0	65.4	94	36	51	50	71	54	.401	.392	2.88	.94	4.7	3.8	5.0
June	29.50	29.78	29.29	71.9	80.4	87.8	66.6	77.2	100	56	61	61	69	53	.536	.539	4.94	2.66	4.0	4.8	4.2
July	29.47	29.69	29.13	70.0	78.1	84.9	66.2	75.6	96	54	63	64	78	63	.582	.607	5.68	1.77	5.3	5.3	5.4
August	29.43	29.60	29.24	70.4	79.5	88.3	67.0	77.6	96	53	62	64	76	62	.570	.608	1.35	.40	5.0	3.9	4.7
September	29.52	29.70	29.28	66.5	76.4	85.1	62.9	74.0	96	40	57	59	72	56	.495	.527	.41	.34	3.1	2.8	3.7
October	29.56	29.91	29.20	43.7	56.3	64.8	41.4	53.1	79	26	33	35	66	46	.194	.213	.90	.46	2.2	2.5	2.6
November	29.58	29.94	28.74	40.7	47.3	54.5	36.9	45.7	79	22	33	37	75	69	.202	.236	7.01	2.00	7.0	6.5	7.1
December	29.50	29.81	28.99	36.2	40.4	45.8	32.2	39.0	66	12	28	30	73	66	.169	.182	5.31	2.38	7.8	5.8	7.6
Year	29.50	29.95	28.64	49.7	58.2	65.0	45.9	55.5	100	—10	41	43	73	59	.318	.336	38.86	2.66	5.1	4.5	5.2

LYNCHBURG, VA.

[λ = 37° 25′ N.; φ = 79° 09′ W.; gravity corr., —0.02.]

January	29.33	29.71	28.72	30.5	35.7	42.2	27.0	34.6	62	— 3	24	26	78	70	.138	.152	7.27	2.80	6.1	4.9	6.3
February	29.32	29.80	28.71	23.9	31.9	38.0	20.7	29.4	71	1	14	21	64	64	.086	.119	1.50	.58	4.5	2.8	4.2
March	29.30	29.80	28.83	41.0	47.6	55.1	35.9	45.5	84	25	30	34	66	59	.175	.199	3.43	1.07	4.8	3.8	5.1
April	29.29	29.86	28.75	51.5	58.9	66.3	45.6	56.0	86	32	42	44	71	61	.280	.305	5.45	1.77	4.5	5.1	5.1
May	29.36	29.59	29.00	60.0	64.6	73.6	53.0	63.3	97	38	53	56	80	75	.427	.462	5.02	1.43	5.3	5.6	5.5
June	29.36	29.71	29.13	72.2	75.3	86.4	63.9	75.2	97	51	63	64	74	70	.584	.611	2.05	.56	3.5	5.2	4.6
July	29.30	29.54	29.04	71.4	75.3	84.9	64.6	74.8	97	57	62	64	74	68	.570	.593	2.94	.82	3.9	6.6	5.1
August	29.29	29.52	29.10	73.5	77.6	88.5	66.1	77.3	96	53	64	65	74	67	.612	.627	1.63	.56	2.5	4.7	4.1
September	29.37	29.63	29.16	68.4	74.5	36.5	62.7	74.6	99	46	58	60	71	62	.507	.546	.56	.56	3.6	3.1	3.1
October	29.37	29.81	29.03	46.3	56.2	66.7	40.3	53.5	77	29	36	40	70	54	.221	.255	1.58	1.04	2.2	2.2	2.0
November	29.46	29.90	28.87	43.0	48.8	58.5	39.0	48.8	76	24	38	40	84	74	.252	.269	1.93	1.02	6.6	3.9	4.5
December	29.42	29.99	28.78	34.0	40.1	48.6	31.6	40.1	70	15	30	31	83	72	.176	.184	2.80	.88	6.8	4.5	5.8
Year	29.35	29.99	28.71	51.3	57.2	66.3	45.9	56.1	99	— 3	43	45	74	66	.336	.360	36.16	2.80	4.5	4.4	4.6

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

LITTLE ROCK, ARK.

[H=302 ft.; h_t=71 ft.; h_r=62 ft.; h_a=79 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	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.	37	NW.	0	10	10	8	2	8	6	10	8	0	7	5	19	11	11	3	1	2	2	0	18	4	0
February	7.8	N.	38	NW.	0	11	8	9	4	2	9	1	11	1	9	9	10	4	4	3	0	0	8	0	19	0	0
March	8.7	N.	38	NW.	0	13	4	7	5	15	7	1	9	1	12	6	13	14	13	0	0	2	0	0	5	4	0
April	7.6	SW.	35	SW.	0	6	3	8	3	7	10	8	12	3	13	7	10	5	4	0	0	0	0	0	0	3	0
May	7.4	SE.	32	W.	0	7	7	2	18	14	7	1	5	1	6	17	8	10	9	0	0	0	0	0	0	11	0
June	5.4	SW.	42	SW.	1	9	4	8	4	8	17	3	7	0	9	9	12	14	11	0	0	0	0	7	0	10	0
July	5.6	SW.	60	NW.	1	2	8	11	7	7	22	1	3	1	11	12	8	14	11	0	0	0	0	11	0	12	0
August	4.8	SW.	27	NW.	0	2	9	3	4	9	15	8	12	0	14	14	3	9	5	0	0	0	0	15	0	5	0
September	5.6	SW.	33	N.	0	6	7	2	12	14	9	0	4	6	13	14	3	4	4	0	0	0	0	17	0	1	0
October	5.5	N.	27	N.	0	12	11	2	1	6	5	6	11	8	18	9	4	6	5	0	0	0	0	0	0	1	0
November	6.7	N.	37	NW.	0	12	4	6	7	9	6	4	6	6	12	5	13	7	6	0	0	0	0	0	4	1	0
December	9.5	S.	31	NW.	0	8	2	4	9	13	7	12	7	0	10	7	14	10	9	2	0	1	0	0	15	1	0
Year	6.9	SW.	60	NW.	2	98	77	70	76	112	120	55	95	27	134	114	117	108	92	8	1	5	10	50	61	53	0

LOS ANGELES, CAL.

[H=330 ft.; h_t=74 ft.; h_r=66 ft.; h_a=76 ft.]

Month.	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.
January	3.9	E.	18	SW.	0	11	11	14	2	3	4	7	10	0	13	4	14	10	9	0	1	0	0	0	0	1	0
February	3.4	NE.	19	NW.	0	5	15	6	2	1	4	14	9	0	13	9	6	5	3	0	0	0	0	0	0	0	0
March	3.6	W.	20	NW.	0	3	10	6	5	3	3	22	6	4	11	9	11	6	5	0	0	3	0	0	0	0	0
April	3.8	W.	26	NW.	0	4	7	5	4	2	7	25	2	4	10	10	10	5	4	0	0	2	0	0	0	0	0
May	4.0	W.	26	W.	0	2	8	6	6	2	6	29	3	0	9	19	3	4	2	0	0	6	0	0	0	0	0
June	3.7	W.	15	W.	0	1	4	8	3	3	9	26	3	3	9	21	0	1	0	0	0	5	0	1	0	0	0
July	3.2	W.	14	W.	0	0	4	2	6	7	4	28	3	8	3	28	0	0	0	0	0	7	0	0	0	0	0
August	2.8	W.	12	W.	0	0	3	4	3	3	4	33	2	10	6	25	0	0	0	0	0	14	0	0	0	0	0
September	3.3	W.	14	NW.	0	2	14	4	4	0	4	21	8	3	12	17	1	0	0	0	0	4	0	7	0	0	0
October	3.1	W.	14	W.	0	8	4	8	2	1	2	28	3	6	12	18	1	2	2	0	0	2	0	1	0	0	0
November	3.1	NE.	12	E.	0	8	17	5	0	0	4	15	6	5	22	5	3	5	3	0	0	0	0	2	0	0	0
December	3.4	NW.	18	E.	0	11	14	6	1	2	2	9	17	0	22	7	2	4	3	0	0	0	0	0	0	0	0
Year	3.4	W.	26	W. NW.	0	55	111	74	38	27	53	257	72	43	142	172	51	42	31	0	1	43	0	11	0	1	0

LOUISVILLE, KY.

[H=525 ft.; h_t=114 ft.; h_r=106 ft.; h_a=136 ft.]

Month.	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.
January	10.1	SW.	39	SW.	0	12	3	2	6	11	15	6	6	1	9	6	16	16	13	10	0	1	10	0	26	0	0
February	8.2	SW.	36	SW.	0	10	3	2	3	11	12	6	9	0	12	9	7	9	3	9	0	1	12	0	24	0	0
March	10.4	S.	40	SW.	1	11	4	5	4	18	6	7	7	0	14	4	13	14	11	3	0	5	1	0	13	1	0
April	8.8	N.	35	SE.	0	15	5	7	9	9	5	6	3	1	12	7	11	10	9	0	1	0	0	0	0	3	0
May	6.8	S.	38	SW.	0	7	5	7	10	18	3	6	6	0	12	11	8	12	10	0	1	0	0	5	0	4	0
June	5.9	SW.	27	SW.	0	8	5	8	5	13	9	3	8	1	16	8	6	10	6	0	0	0	0	9	0	3	0
July	5.8	S.	28	S.	0	10	9	4	4	14	8	2	7	4	10	10	11	11	11	0	0	1	0	6	0	3	0
August	6.0	S.	33	SE.	0	7	0	5	7	15	18	5	5	0	9	18	4	8	6	0	0	1	0	13	0	7	0
September	6.8	S.	36	SW.	0	13	2	2	7	18	9	1	7	1	17	11	2	3	2	0	0	1	0	13	0	2	0
October	7.5	N.	36	W.	0	22	3	1	2	11	7	5	8	3	21	5	5	6	4	0	0	0	0	0	4	0	0
November	7.9	SE.	57	SW.	2	12	3	8	19	5	7	4	2	0	7	5	18	13	9	0	0	2	0	0	9	1	0
December	9.2	SE.	32	NW.	0	7	0	4	20	17	5	1	8	0	4	6	21	14	12	6	0	0	4	0	17	0	0
Year	7.8	S.	57	SW.	3	134	42	55	96	160	104	52	76	11	143	100	122	126	96	28	2	12	27	46	93	24	0

LYNCHBURG, VA.

[H=685 ft.; h_t=83 ft.; h_r=76 ft.; h_a=88 ft.]

Month.	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.
January	4.4	SW.	27	NW.	0	2	11	3	3	2	21	10	6	4	7	14	10	16	11	9	0	1	3	0	22	0	0
February	5.8	NW.	28	NW.	0	1	6	4	1	0	11	10	19	4	14	9	5	6	5	6	0	1	9	0	24	0	0
March	5.7	NW.	25	NW.	0	2	11	1	6	10	10	7	14	1	13	9	9	13	10	2	0	1	0	0	10	0	0
April	5.5	NW.	26	SE.	0	3	12	5	8	6	5	5	15	1	11	12	7	13	9	0	1	0	0	0	1	2	0
May	3.7	Calm NE.	22	NW.	0	2	11	7	10	5	10	4	9	4	8	16	7	19	16	0	2	0	0	3	0	4	0
June	3.4	Calm NE.	25	NW.	0	1	14	7	10	3	11	8	3	3	11	16	3	11	8	0	0	0	0	8	0	4	0
July	3.0	Calm SW.	22	SW.	0	2	10	8	6	4	11	11	7	3	8	16	7	9	8	0	0	0	0	9	0	3	0
August	3.4	Calm SW.	23	SW.	0	1	1	6	10	5	15	5	16	3	11	16	4	12	7	0	0	0	0	14	0	9	0
September	3.6	Calm SE.	25	NW.	0	0	13	8	11	2	11	3	9	3	18	11	1	1	1	0	0	0	0	12	0	1	0
October	4.0	Calm NW.	25	NW.	0	2	9	4	2	10	1	10	14	10	22	7	2	4	3	0	0	0	0	0	4	0	0
November	3.8	NE.	26	NW.	0	1	23	4	4	5	11	2	6	4	12	11	7	8	6	0	0	1	0	0	7	0	0
December	4.2	NE.	33	NW.	0	2	16	2	7	9	13	5	7	1	7	12	12	9	8	2	0	0	1	0	16	0	0
Year	4.2	Calm NW.	33	NW.	0	19	137	59	78	61	130	80	125	41	142	149	74	121	92	19	3	4	13	46	84	23	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

MARQUETTE, MICH.

[λ=46° 34′ N.; φ=87° 24′ W.; gravity corr., 0.]

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	29.10	29.78	28.12	12.2	14.9	20.5	8.6	14.6	33	—10	10	11	88	82	.070	.074	5.14	1.24	7.8	5.5	7.3
February	29.19	29.61	28.31	10.5	16.0	21.6	7.4	14.5	54	—16	6	10	81	76	.067	.084	1.31	.29	7.0	6.3	6.7
March	29.18	29.57	28.60	17.0	22.2	28.4	13.2	20.8	54	—12	12	15	78	72	.078	.092	1.30	.26	5.5	4.9	5.6
April	29.26	29.60	28.90	39.5	41.0	47.1	33.6	40.4	73	22	33	32	78	70	.188	.179	1.46	.68	6.3	5.3	6.1
May	29.16	29.51	28.79	52.2	53.3	63.4	43.2	53.3	98	28	42	43	71	70	.292	.300	4.88	1.53	5.7	6.5	6.5
June	29.21	29.48	28.71	60.1	59.0	69.9	50.2	60.0	93	40	52	49	75	74	.390	.357	4.21	1.16	5.4	6.2	6.2
July	29.19	29.47	28.76	61.7	63.7	71.7	53.7	62.7	86	43	52	53	72	70	.398	.411	1.13	.31	5.2	5.3	5.5
August	29.11	29.39	28.85	61.3	64.0	71.6	55.9	63.8	87	45	54	55	78	75	.422	.445	1.70	.51	5.9	4.4	5.5
September	29.11	29.51	28.63	56.4	60.6	68.9	51.3	60.1	93	37	49	51	77	73	.369	.406	3.52	1.07	6.3	5.6	5.9
October	29.14	29.58	28.56	37.8	41.3	47.2	34.2	40.7	73	20	31	32	77	72	.179	.189	2.54	.85	7.1	7.4	7.9
November	29.24	29.63	28.70	29.2	32.4	37.6	25.6	31.6	66	8	25	26	84	78	.142	.148	2.83	.65	8.0	7.6	7.6
December	29.10	29.52	28.32	23.5	25.1	29.6	19.9	24.8	46	3	20	20	85	78	.113	.109	3.02	.72	8.5	6.7	7.8
Year	29.17	29.78	28.12	38.4	41.1	48.1	33.1	40.6	98	—16	32	33	79	74	.226	.233	33.04	1.53	6.6	6.0	6.6

MEMPHIS, TENN.

[λ=35° 09′ N.; φ=90° 03′ W.; gravity corr., —0.03.]

Month.	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.
January	29.69	30.04	29.00	33.9	39.8	45.0	30.5	37.8	72	7	28	29	80	67	.182	.186	5.94	2.70	5.8	6.0	6.0
February	29.83	30.10	29.34	28.4	37.8	42.3	26.8	34.6	74	— 3	21	23	72	55	.125	.134	1.39	.37	5.8	5.2	4.7
March	29.66	30.09	29.27	45.7	55.8	62.3	43.6	53.0	87	28	37	38	73	86	.243	.249	7.01	2.06	6.0	5.4	5.3
April	29.57	29.91	29.24	57.8	67.3	73.9	53.8	63.8	88	38	49	48	73	54	.357	.357	2.32	1.30	4.1	3.6	4.4
May	29.63	29.87	29.41	63.9	72.5	78.8	59.4	69.1	94	47	56	56	76	59	.466	.486	.46	.16	5.2	4.5	4.2
June	29.64	29.82	29.48	74.2	81.2	88.1	69.3	78.7	98	60	67	66	80	63	.674	.651	2.31	.86	4.5	6.3	3.8
July	29.61	29.78	29.28	74.1	79.1	86.2	70.9	78.6	97	64	70	72	88	79	.746	.775	6.99	1.63	5.5	7.0	6.0
August	29.57	29.70	29.46	74.2	82.3	89.3	70.7	80.0	95	62	69	69	84	66	.717	.717	.64	.41	2.8	4.6	2.9
September	29.64	29.84	29.42	71.0	79.2	87.0	68.7	77.8	96	45	64	66	81	64	.635	.657	.73	.37	2.6	2.9	3.9
October	29.72	29.96	29.42	49.5	62.5	69.1	47.8	58.4	81	37	41	45	73	56	.268	.317	2.17	1.22	3.2	2.5	3.4
November	29.73	30.04	29.10	45.7	53.8	59.5	43.5	51.5	74	27	40	41	82	65	.270	.282	5.54	2.55	5.7	4.3	5.4
December	29.67	29.98	29.20	39.5	46.4	51.6	37.3	44.4	69	20	34	35	79	65	.206	.227	3.09	1.36	5.7	3.9	5.2
Year	29.66	30.10	29.00	54.8	63.1	69.4	51.9	60.6	98	— 3	48	49	78	65	.407	.420	38.59	2.70	4.7	4.7	4.6

MERIDIAN, MISS.

[λ=32° 21′ N.; φ=88° 40′ W.; gravity corr., —0.03]

Month.	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.
January	29.70	30.03	29.14	39.7	46.3	52.2	36.5	44.4	74	16	35	40	83	78	.231	.267	7.42	4.41	7.2	5.4	6.7
February	29.82	30.13	29.36	31.5	40.7	46.9	28.9	37.9	76	6	26	33	80	74	.153	.210	1.63	.78	6.3	5.9	6.0
March	29.70	30.06	29.31	48.9	58.9	66.6	44.7	55.6	84	25	45	51	87	75	.321	.394	6.01	1.62	5.9	4.6	6.2
April	29.62	30.00	29.30	57.6	66.5	75.7	52.3	64.0	84	38	53	56	85	70	.412	.456	1.44	.91	3.8	4.4	4.8
May	29.66	29.86	29.48	65.3	71.8	79.9	59.8	69.8	92	42	61	62	86	72	.550	.559	5.46	1.78	5.1	4.7	5.4
June	29.68	29.82	29.56	73.3	77.8	87.4	67.6	77.5	96	60	69	69	86	76	.703	.703	5.81	1.71	6.2	6.1	7.1
July	29.67	29.81	29.40	75.9	80.7	89.6	70.3	80.0	95	65	71	71	86	74	.766	.758	6.82	1.47	4.6	5.7	6.6
August	29.63	29.80	29.46	74.2	79.6	89.2	70.2	79.7	94	65	71	72	90	78	.765	.784	4.88	1.72	5.2	5.4	6.8
September	29.68	29.85	29.52	71.5	78.6	89.5	66.2	77.8	96	49	67	67	85	69	.679	.694	.85	.43	1.2	2.3	4.3
October	29.73	29.93	29.45	49.7	60.8	74.1	46.0	60.0	90	33	43	48	78	64	.285	.343	3.02	1.33	3.4	2.6	2.8
November	29.79	30.08	29.36	47.3	54.6	65.0	44.1	54.6	78	25	42	46	83	73	.299	.332	1.97	1.05	5.0	4.7	5.2
December	29.76	30.03	29.39	39.7	48.1	56.7	37.0	46.8	72	19	34	38	80	70	.216	.257	5.28	2.55	5.0	3.6	4.4
Year	29.70	30.13	29.14	56.2	63.7	72.7	52.0	62.3	96	6	51	54	84	73	.448	.480	50.59	4.41	4.9	4.6	5.5

MILES CITY, MONT.

[λ=46° 25′ N.; φ=105° 49′ W.; gravity corr., 0.]

Month.	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.
January	27.43	27.93	26.97	4.0	10.8	17.3	—2.5	7.4	41	—26	—1	6	78	78	.043	.058	0.30	0.17	6.0	4.9	5.2
February	27.61	28.29	27.16	6.3	16.7	22.5	1.3	11.9	62	—32	2	11	81	79	.071	.102	.64	.21	5.4	5.5	5.7
March	27.44	27.92	26.86	24.7	38.0	43.5	21.1	32.3	77	— 8	19	28	76	70	.112	.163	.24	.08	5.5	6.3	6.0
April	27.45	27.87	26.91	40.6	61.0	65.1	37.0	51.0	79	24	32	35	72	43	.188	.217	1.31	.84	4.9	5.3	5.0
May	27.41	27.95	26.77	47.3	63.8	67.4	42.2	54.8	82	32	39	38	74	42	.239	.239	1.59	.65	5.7	4.8	5.2
June	27.49	27.73	27.14	53.7	69.0	72.1	49.2	60.6	90	35	47	47	79	49	.327	.329	4.40	1.44	4.4	4.8	4.5
July	27.45	27.77	27.15	61.4	81.6	85.4	56.9	71.2	97	42	50	48	67	32	.366	.341	.64	.17	3.5	4.8	3.8
August	27.45	27.75	27.13	57.9	80.6	84.4	54.1	69.2	101	42	44	44	62	30	.293	.296	.39	.29	3.4	4.4	3.8
September	27.41	27.97	26.87	46.1	67.3	73.1	42.9	58.0	94	22	37	46	72	48	.233	.327	.30	.18	4.0	5.1	4.3
October	27.57	27.88	27.18	35.4	54.0	62.4	32.6	47.5	83	14	28	32	74	44	.161	.183	.89	.89	3.7	3.3	3.7
November	27.48	27.90	27.05	24.3	31.7	39.2	18.6	28.9	65	— 7	19	24	80	74	.114	.137	.77	.55	5.8	5.0	5.7
December	27.37	27.93	26.71	18.8	25.5	32.8	13.1	23.0	55	— 6	13	18	76	73	.085	.104	.77	.26	4.3	4.1	5.0
Year	27.46	28.29	26.71	35.0	50.0	55.4	30.5	43.0	101	—32	27	31	74	55	.186	.208	12.74	1.44	4.7	4.9	4.8

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

MARQUETTE, MICH.

[H = 734 ft.; h_t = 67 ft.; h_r = 58 ft.; h_a = 95 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	12.0	NW.	33	NW.	0	7	1	1	2	9	8	17	17	0	5	8	18	21	16	21	0	0	28	0	31	0	2
February	11.3	NW.	44	SW.	2	5	2	2	2	1	8	11	25	0	5	7	16	18	12	17	0	0	21	0	26	0	3
March	12.4	NW.	43	S.	2	9	6	4	2	10	6	7	18	0	9	10	12	13	9	12	0	0	19	0	29	0	2
April	8.3	N.	40	S.	1	14	12	4	4	7	2	2	15	0	7	13	10	11	6	2	1	0	1	0	10	1	2
May	11.3	NW.	46	SE.	1	10	6	2	8	11	5	5	15	0	6	11	14	16	11	2	0	1	0	2	4	5	0
June	8.6	NW.	38	S.	0	5	4	4	8	10	6	5	18	0	6	12	12	17	13	0	0	2	0	2	0	4	0
July	8.6	NW.	29	S.	0	5	6	4	6	9	5	7	20	0	8	15	8	16	7	0	0	0	0	0	0	1	0
August	9.6	NW.	43	SW.	1	7	5	3	7	7	9	3	20	1	7	19	5	16	8	0	0	0	0	0	0	6	0
September	12.7	NW.	52	SE.	2	6	4	1	7	7	15	5	15	0	6	18	6	17	12	0	0	0	0	1	0	5	2
October	12.2	NW.	42	SW.	1	8	2	1	2	7	11	14	17	0	1	11	19	15	9	10	0	0	2	0	12	1	2
November	10.7	S.	34	SE.	0	6	3	1	3	13	9	12	13	0	3	7	20	20	12	16	0	0	12	0	22	0	1
December	11.8	SW.	46	SW.	2	8	3	0	8	7	14	11	11	0	4	6	21	19	12	16	0	0	18	0	28	0	0
Year	10.8	NW.	52	SE.	12	90	54	27	59	98	98	99	204	1	67	137	161	199	127	96	1	3	101	5	162	23	14

MEMPHIS, TENN.

[H = 399 ft.; h_t = 140 ft.; h_r = 134 ft.; h_a = 154 ft.]

Month.	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.
January	8.5	NW.	38	NW.	0	7	9	7	7	9	5	8	10	0	11	4	16	11	10	2	0	2	3	0	18	1	0
February	7.1	NW.	36	NW.	0	11	10	11	1	3	2	9	9	0	12	6	10	7	6	4	0	0	9	0	18	0	0
March	7.3	NW.	32	NW.	0	7	5	7	13	10	4	4	12	0	11	8	12	14	10	0	1	1	0	0	5	3	0
April	7.6	SE.	33	SE.	0	5	5	8	13	6	6	7	9	1	14	9	7	7	7	0	0	1	0	0	0	2	0
May	7.8	SE.	35	NW.	0	6	6	9	19	7	1	6	7	1	13	13	5	1	4	0	0	0	0	2	0	1	0
June	5.7	W.	22	SE.	0	7	3	8	13	7	4	11	7	0	19	4	7	10	7	0	0	0	0	13	0	2	0
July	7.2	E.	54	W.	2	6	8	11	7	9	11	5	4	1	9	9	13	22	15	0	0	0	0	10	0	9	0
August	6.9	SW.	24	W.	0	14	4	5	7	10	10	7	5	0	21	6	4	6	5	0	0	0	0	14	0	3	0
September	7.7	S.	34	NW.	0	13	8	9	8	14	2	3	3	0	15	12	3	7	3	0	0	0	0	17	0	1	0
October	8.0	N.	29	W.	0	19	11	8	2	8	6	1	7	0	20	5	6	7	4	0	0	0	0	0	0	1	0
November	10.1	SE.	44	SW.	2	11	5	8	13	8	6	2	7	0	11	8	11	9	7	0	0	3	0	0	5	1	0
December	12.5	SE.	42	W.	1	2	2	3	19	15	4	5	12	0	10	12	9	13	11	1	0	1	0	0	12	0	0
Year	8.0	NW.	54	W.	5	108	76	94	122	106	61	68	92	3	166	96	103	120	89	7	1	8	12	56	58	24	0

MERIDIAN, MISS.

[H = 358 ft.; h_t = 68 ft.; h_r = 58 ft.; h_a = 72 ft.]

Month.	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.
January	6.9	NW.	26	SW.	0	10	10	1	8	9	6	1	15	2	6	9	16	11	9	1	0	0	1	0	11	1	0
February	6.4	NE.	33	NW.	0	10	15	3	1	4	5	4	10	4	8	5	15	8	7	2	0	0	6	0	19	0	0
March	6.9	S.	30	NW.	0	10	9	5	7	11	11	2	6	1	8	10	13	11	11	0	0	0	0	0	3	2	0
April	5.9	SE.	35	S.	0	4	6	5	11	9	10	4	7	4	13	9	8	6	5	0	0	0	0	0	0	6	0
May	5.4	NE.	30	SW.	0	6	16	7	15	8	5	2	2	1	8	13	10	10	8	0	0	2	0	1	0	9	0
June	4.1	SW.	36	W.	0	3	13	4	9	9	15	0	5	2	2	16	12	13	11	0	0	0	0	7	0	9	0
July	4.5	SW.	28	S.	0	2	8	1	8	8	23	2	5	5	2	19	10	13	10	0	0	0	0	14	0	11	0
August	3.7	SW.	24	W.	0	1	11	2	9	6	22	2	7	2	2	22	7	12	10	0	0	4	0	12	0	13	0
September	4.0	NE.	26	N.	0	12	13	7	11	6	0	2	1	8	11	19	0	3	3	0	0	1	0	17	0	7	0
October	4.6	NE.	22	N.	0	15	30	1	1	5	2	0	4	4	20	6	5	6	6	0	0	0	0	0	0	1	0
November	5.6	NE.	25	N.	0	11	11	6	9	4	4	0	4	11	11	8	11	6	5	0	0	3	0	0	5	0	0
December	6.9	SE.	33	S.	0	10	8	2	11	9	7	4	7	4	16	3	12	10	10	0	0	2	0	0	10	0	0
Year	5.4	NE.	36	W.	0	94	150	44	100	88	110	23	73	48	107	139	119	109	95	3	0	12	7	51	48	59	0

MILES CITY, MONT.

[H = 2,372 ft.; h_t = 41 ft.; h_r = 34 ft.; h_a = 49 ft.]

Month.	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.
January	5.5	N.	29	NW.	0	10	4	4	7	9	3	10	9	6	11	14	6	13	7	10	0	0	28	0	31	0	0
February	6.5	W.	38	NW.	0	6	6	2	5	10	9	11	5	2	8	11	9	9	6	9	0	0	15	0	25	0	0
March	8.0	W.	30	W.	0	3	3	5	9	11	0	16	14	1	5	19	7	5	3	2	0	0	6	0	27	0	0
April	8.5	N.	41	NW.	1	16	2	8	8	8	2	8	8	0	13	13	4	6	5	0	1	0	0	0	10	1	0
May	7.8	NW.	33	W.	0	6	2	6	11	3	7	10	16	1	11	16	4	7	7	0	1	0	0	0	0	2	0
June	6.3	W.	35	S.	0	12	2	4	9	7	3	14	8	1	15	9	6	15	14	0	3	0	0	1	0	7	0
July	7.3	SE.	43	NW.	1	11	3	7	14	8	3	10	6	0	18	10	3	6	4	0	0	0	0	10	0	5	0
August	5.6	W.	33	NW.	0	13	3	7	6	7	2	14	6	4	18	11	2	5	3	0	0	0	0	9	0	2	0
September	7.3	S.	38	NW.	0	6	1	5	8	12	5	11	10	2	15	10	5	4	4	0	1	0	0	4	3	3	0
October	6.5	S.	32	W.	0	9	4	6	6	15	3	8	10	1	19	8	4	1	1	0	0	0	0	0	12	0	2
November	5.9	S.	41	NW.	1	7	3	5	6	15	6	8	7	3	9	12	9	5	3	5	0	0	10	0	25	0	4
December	6.8	S.	47	W.	1	3	1	3	2	20	10	15	5	3	11	15	5	10	5	8	0	0	15	0	29	0	0
Year	6.8	W.	47	W.	4	102	34	62	91	125	53	135	104	24	153	148	64	86	62	34	6	0	74	24	162	20	6

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

MILWAUKEE, WIS.

[λ=43° 02′ N.; φ=87° 54′ W.; gravity corr., 0.]

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	29.25	29.91	28.41	12.4	17.4	22.3	7.9	15.1	45	—12	6	12	72	76	.066	.079	1.78	0.76	5.2	4.1	5.5
February	29.35	29.77	28.50	11.0	18.4	22.4	7.8	15.1	54	—17	4	10	69	66	.070	.088	1.26	.86	4.9	3.7	5.0
March	29.29	29.68	28.87	25.7	31.7	36.8	22.8	29.8	69	0	19	23	74	69	.108	.133	.74	.36	5.5	5.5	5.8
April	29.29	29.68	28.88	43.7	45.1	53.7	38.4	46.0	77	29	34	34	70	65	.200	.194	1.48	.87	5.8	6.0	5.7
May	29.28	29.62	28.95	53.5	56.1	64.9	46.5	55.7	92	31	44	45	70	67	.309	.319	4.24	.97	5.0	5.1	5.1
June	29.32	29.57	29.05	65.8	67.0	75.3	58.7	67.0	90	44	54	53	67	63	.431	.418	3.04	1.44	5.9	5.0	5.6
July	29.29	29.60	28.99	65.3	70.7	76.6	59.7	68.2	90	47	54	55	68	60	.424	.449	1.58	.56	4.1	5.1	5.0
August	29.23	29.52	28.96	67.4	72.9	80.5	62.8	71.6	96	54	57	56	70	58	.470	.460	2.83	1.19	4.0	4.6	4.7
September	29.27	29.55	28.90	61.4	66.4	74.9	56.2	65.6	93	35	53	56	75	72	.432	.481	1.82	.80	3.8	2.6	4.1
October	29.32	29.75	28.79	40.0	46.4	53.3	36.5	44.9	74	20	32	34	73	62	.190	.199	.52	.33	3.5	4.8	4.5
November	29.37	29.68	28.91	31.3	36.0	40.8	28.2	34.5	66	7	26	30	82	78	.151	.168	2.99	.91	7.0	5.2	6.6
December	29.25	29.64	28.74	25.4	28.7	32.5	22.9	27.7	55	— 1	22	25	86	84	.130	.140	2.60	1.10	6.6	5.9	7.2
Year	29.29	29.91	28.41	41.9	46.4	52.8	37.4	45.1	96	—17	34	36	73	68	.248	.261	24.88	1.44	5.1	4.8	5.4

MINNEAPOLIS, MINN.

[λ=44° 59′ N.; φ=93° 18′ W.; gravity corr., 0.]

January	.....	.....	.....	.....	.....	15.0	—1.3	6.8	33	—20	.....	.....	.....	.....	.....	.....	0.88	0.34	.....	.....	.....
February	.....	.....	.....	.....	.....	21.2	2.7	12.0	53	—26	.....	.....	.....	.....	.....	.....	.42	.26	.....	.....	.....
March	.....	.....	.....	.....	.....	40.5	19.3	29.9	58	— 9	.....	.....	.....	.....	.....	.....	.44	.26	.....	.....	.....
April	.....	.....	.....	.....	.....	64.4	41.6	53.0	76	24	.....	.....	.....	.....	.....	.....	1.68	.83	.....	.....	.....
May	.....	.....	.....	.....	.....	70.0	49.0	59.5	92	31	.....	.....	.....	.....	.....	.....	2.90	.90	.....	.....	.....
June	.....	.....	.....	.....	.....	78.0	57.7	67.8	85	47	.....	.....	.....	.....	.....	.....	3.67	1.20	.....	.....	.....
July	.....	.....	.....	.....	.....	81.6	59.7	70.6	94	48	.....	.....	.....	.....	.....	.....	4.37	2.94	.....	.....	.....
August	.....	.....	.....	.....	.....	81.4	58.7	70.0	94	45	.....	.....	.....	.....	.....	.....	1.92	.73	.....	.....	.....
September	.....	.....	.....	.....	.....	77.0	55.2	66.1	96	34	.....	.....	.....	.....	.....	.....	4.26	2.80	.....	.....	.....
October	.....	.....	.....	.....	.....	55.6	34.2	44.9	73	16	.....	.....	.....	.....	.....	.....	.05	.02	.....	.....	.....
November	.....	.....	.....	.....	.....	40.2	23.5	31.8	67	— 2	.....	.....	.....	.....	.....	.....	.70	.27	.....	.....	.....
December	.....	.....	.....	.....	.....	29.1	15.9	22.5	42	— 4	.....	.....	.....	.....	.....	.....	.15	.07	.....	.....	.....
Year	.....	.....	.....	.....	.....	54.5	34.7	44.6	96	—26	.....	.....	.....	.....	.....	.....	21.44	2.94	.....	.....	.....

MOBILE, ALA.

[λ=30° 41′ N.; φ=88° 02′ W.; gravity corr., — 0.04.]

January	30.06	30.39	29.62	43.6	49.6	56.1	41.2	48.6	72	21	40	44	89	84	.276	.315	5.24	2.39	6.2	6.1	5.9
February	30.16	30.50	29.72	37.7	44.5	51.6	35.4	43.5	73	12	34	38	88	78	.214	.247	4.35	2.26	6.2	5.8	5.5
March	30.06	30.37	29.53	53.4	59.5	66.5	50.1	58.3	80	33	51	51	90	76	.395	.396	10.47	4.10	4.5	4.8	5.4
April	29.97	30.35	29.67	61.1	67.0	74.2	57.8	66.0	82	45	57	58	85	74	.473	.494	3.04	1.46	3.9	4.9	4.5
May	30.00	30.19	29.80	69.2	73.3	79.6	65.4	72.5	87	51	65	66	86	80	.625	.658	5.50	2.50	5.8	6.5	6.1
June	30.02	30.14	29.90	76.3	78.7	86.5	71.5	79.0	96	67	71	71	84	78	.762	.758	6.99	1.64	7.1	8.2	7.5
July	30.01	30.13	29.81	78.9	81.1	88.7	73.8	81.2	95	68	74	74	84	78	.831	.830	4.53	1.54	6.9	7.3	7.1
August	29.97	30.16	29.84	77.9	80.0	87.5	74.0	80.8	94	71	74	73	88	81	.837	.820	8.68	2.93	5.7	7.9	6.9
September	30.00	30.17	29.86	76.0	79.8	89.0	72.4	80.7	93	54	71	71	84	75	.770	.770	1.68	.57	1.6	4.6	4.2
October	30.04	30.26	29.77	57.9	67.4	75.8	55.2	65.5	86	46	51	54	80	64	.394	.434	3.50	2.17	3.5	3.4	3.6
November	30.13	30.42	29.76	51.0	53.8	66.1	49.3	57.7	75	31	47	52	86	78	.347	.409	.60	.30	5.6	4.2	5.3
December	30.12	30.42	29.76	43.9	51.3	58.6	40.9	49.8	69	27	40	44	86	77	.264	.315	3.83	1.82	4.7	3.7	4.7
Year	30.04	30.50	29.53	60.6	65.9	73.4	57.2	65.3	96	12	56	58	86	77	.516	.537	58.41	4.10	5.1	5.6	5.6

MONTGOMERY, ALA.

[λ=32° 23′ N.; φ=86° 18′ W.; gravity corr., —0.03.]

January	29.87	30.19	29.35	41.2	48.7	55.4	38.4	46.9	73	15	36	41	83	76	.232	.274	6.69	1.68	7.4	5.3	7.2
February	29.97	30.29	29.55	33.4	43.3	49.0	30.9	40.0	73	8	29	32	83	67	.166	.194	3.56	1.71	5.1	5.4	5.9
March	29.87	30.21	29.34	50.1	60.8	67.1	47.0	57.0	86	29	45	49	82	68	.318	.367	9.14	2.75	6.2	4.7	5.7
April	29.78	30.21	29.45	58.3	68.3	74.9	54.9	64.9	84	40	52	53	80	60	.398	.415	3.99	2.12	5.4	4.4	5.0
May	29.83	30.00	29.60	66.4	72.7	80.3	61.4	70.8	94	48	60	62	81	72	.537	.568	1.80	.49	5.8	6.0	5.9
June	29.84	30.00	29.71	75.1	80.0	88.9	69.7	79.3	97	65	67	67	78	67	.675	.669	3.99	2.25	6.1	7.4	6.3
July	29.82	29.99	29.57	75.7	81.8	90.2	72.1	81.2	96	68	71	70	85	69	.758	.723	3.47	1.19	6.3	5.6	5.4
August	29.78	29.97	29.62	75.5	81.1	89.7	72.1	80.9	96	67	72	72	88	75	.781	.775	4.50	1.10	7.0	6.2	6.5
September	29.82	30.03	29.66	73.2	81.7	90.3	69.8	80.0	96	50	67	65	81	58	.671	.628	.74	.50	3.0	2.6	3.0
October	29.86	30.08	29.59	54.6	67.3	75.5	51.2	63.4	90	43	45	45	73	48	.318	.315	1.26	.60	3.7	2.3	2.9
November	29.94	30.23	29.52	48.6	58.8	65.8	45.9	55.8	79	27	42	43	79	58	.290	.302	.87	.78	4.0	3.7	4.5
December	29.92	30.27	29.50	40.4	50.6	57.7	37.0	47.4	72	22	36	38	84	63	.230	.248	3.44	1.13	5.2	3.8	4.6
Year	29.86	30.29	29.34	57.7	66.3	73.7	54.2	64.0	97	8	52	53	81	65	.448	.457	43.46	2.75	5.4	4.6	5.2

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

MILWAUKEE, WIS.

[H = 673 ft.; h_t = 106 ft.; h_r = 100 ft.; h_a = 149 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	12.1	W.	50	SW.	2	5	2	1	6	3	11	29	5	0	11	10	10	14	7	12	0	3	25	0	31	1	0
February	13.1	W.	36	E.	0	1	0	2	1	1	12	27	12	0	10	9	9	7	3	5	0	0	22	0	25	0	0
March	12.7	NE.	43	NW.	1	6	13	3	6	5	0	11	9	0	8	13	10	12	5	10	0	0	10	0	26	1	0
April	10.1	NE.	33	NW.	0	16	16	7	8	3	5	3	2	0	9	11	10	9	7	0	0	0	0	0	4	0	0
May	9.6	SE.	42	N.	1	8	10	6	14	6	10	5	3	0	11	12	8	14	14	0	1	1	0	1	1	10	0
June	8.3	SE.	32	W.	0	1	11	8	15	6	9	6	4	0	7	13	10	8	5	0	0	0	0	1	0	4	0
July	8.5	SW.	33	SW.	0	7	12	5	12	1	11	7	7	0	12	12	7	10	6	0	1	0	0	0	0	6	0
August	8.4	SW.	34	SW.	0	6	6	2	14	4	15	3	12	0	11	13	7	10	7	0	0	0	0	2	0	6	1
September	11.2	S.	42	SW.	1	3	4	3	12	15	11	8	4	0	15	9	6	9	6	0	1	2	0	4	0	5	0
October	11.3	SW.	35	W.	0	6	5	0	0	10	14	14	13	0	15	5	11	5	4	0	0	0	0	0	7	0	0
November	10.6	S.	34	N.	0	11	2	1	5	13	8	10	10	0	8	6	16	13	11	7	0	0	6	0	19	0	0
December	11.2	W.	42	S.	1	7	7	0	5	10	10	15	8	0	6	9	16	13	9	6	0	2	12	0	25	0	0
Year	10.6	W.	50	SW.	6	77	88	38	98	77	125	138	89	0	123	122	120	124	84	40	3	8	75	8	138	33	1

MINNEAPOLIS, MINN.

[H = 810 ft.; h_t = 99 ft.; h_r = 95 ft.; h_a = 192 ft.]

Month.	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.
January	10.1	NW.	....	.....	1	1	1	0	6	4	3	6	10	0	13	3	15	8	4	8	0	2	30	0	31	0	0
February	10.9	NW.	....	.....	0	1	2	0	0	6	1	4	14	0	12	6	10	4	3	3	0	2	18	0	25	0	0
March	12.3	NW.	....	.....	1	0	5	2	3	2	5	3	11	0	13	10	8	5	2	3	0	0	6	0	25	0	0
April	10.1	NE.	....	.....	1	5	10	3	1	6	0	1	4	0	8	9	13	8	6	0	1	0	0	0	3	4	0
May	10.8	S.	....	.....	3	2	8	1	2	9	2	4	3	0	5	13	13	16	11	0	4	0	0	1	1	7	0
June	9.5	NW.	....	.....	2	1	2	2	5	6	1	4	9	0	12	14	4	10	9	0	2	1	0	0	0	5	0
July	8.1	NW.	....	.....	1	2	4	2	4	5	3	1	10	0	9	17	5	3	3	0	3	0	0	3	0	3	0
August	8.3	NW.	....	.....	1	3	2	2	3	3	2	5	11	0	16	13	2	12	9	0	0	0	0	3	0	13	0
September	11.0	S.	....	.....	1	2	2	1	4	11	1	2	7	0	7	15	8	9	6	0	0	0	0	8	0	4	0
October	12.0	S.	....	.....	2	0	1	1	1	11	0	7	10	0	14	9	8	3	0	1	0	0	2	0	13	0	1
November	8.6	NW.	....	.....	0	1	0	2	7	4	1	5	10	0	6	11	13	10	5	7	0	0	7	0	22	0	0
December	9.5	SE.	....	.....	1	3	0	0	12	3	2	5	6	0	10	7	14	4	2	3	0	0	17	0	30	0	0
Year	10.1	NW.	....	.....	14	21	37	16	48	70	21	47	105	0	125	127	113	92	60	25	10	5	80	15	150	36	1

MOBILE, ALA.

[H = 57 ft.; h_t = 88 ft.; h_r = 73 ft.; h_a = 96 ft.]

Month.	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.
January	8.9	N.	35	S.	0	19	3	3	5	10	6	4	12	0	9	12	10	16	10	0	1	4	0	0	6	3	0
February	9.3	N.	42	NW.	1	18	4	0	4	9	5	4	12	0	7	12	9	11	8	2	0	2	3	0	9	2	0
March	9.2	S.	32	SW.	0	12	1	4	4	19	9	4	9	0	11	8	12	12	11	0	0	5	0	0	0	4	0
April	8.6	N.	39	NW.	0	15	1	4	6	11	8	3	7	0	12	13	5	12	8	0	0	0	0	0	0	5	0
May	7.8	S.	28	N.	0	16	3	7	6	17	4	2	6	1	5	12	14	11	9	0	0	1	0	0	0	8	0
June	6.4	N.	28	SW.	0	14	2	4	3	10	12	8	4	3	0	13	17	16	13	0	0	1	0	5	0	15	0
July	6.6	SW.	35	SW.	0	10	3	2	6	7	13	10	11	0	1	15	15	12	10	0	0	0	0	13	0	11	0
August	5.9	W.	30	SE.	0	5	8	7	1	9	8	15	8	1	2	17	12	13	11	0	0	0	0	6	0	19	0
September	6.4	N.	32	SE.	0	22	8	2	6	2	4	8	8	0	10	17	3	9	6	0	0	0	0	12	0	9	0
October	7.3	N.	24	N.	0	32	2	2	1	3	8	0	13	1	17	5	9	5	3	0	0	1	0	0	0	2	0
November	7.3	N.	30	NW.	0	24	5	4	7	5	3	3	8	1	11	7	12	5	4	0	0	0	0	0	1	0	0
December	8.7	N.	36	SE.	0	16	3	4	12	7	7	2	11	0	15	7	9	8	6	0	0	1	0	0	5	0	0
Year	7.7	N.	42	NW.	1	203	43	43	61	109	87	68	109	7	100	138	127	130	99	2	1	15	3	36	21	78	0

MONTGOMERY, ALA.

[H = 221 ft.; h_t = 100 ft.; h_r = 70 ft.; h_a = 107 ft.]

Month.	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.
January	6.8	W.	28	N.	0	7	3	12	6	8	3	15	7	1	3	11	17	15	10	0	0	3	0	0	5	1	0
February	7.2	NW.	36	NW.	0	9	9	5	1	3	4	10	14	1	9	5	14	9	8	3	0	1	4	0	14	0	0
March	7.5	E.	36	W.	0	10	10	11	6	9	5	5	6	0	10	8	13	12	10	0	0	0	0	0	2	4	0
April	6.7	S.	32	SW.	0	2	7	6	9	12	11	8	5	0	9	15	6	10	7	0	0	0	0	0	0	4	0
May	5.7	NE.	24	SW.	0	4	16	9	14	6	8	4	1	0	8	11	12	17	9	0	0	0	0	3	0	8	0
June	5.8	SW.	27	NW.	0	5	5	7	9	9	13	5	7	0	3	18	9	14	8	0	0	0	0	14	0	10	0
July	5.4	NE.	36	NW.	0	2	14	2	12	5	10	6	11	0	11	9	11	13	11	0	0	0	0	18	0	7	0
August	4.7	SE.	31	SW.	0	4	11	4	13	10	11	4	3	2	3	15	13	15	12	0	0	0	0	14	0	11	0
September	4.9	NE.	25	NW.	0	11	15	12	9	1	3	1	6	2	19	9	2	5	4	0	0	0	0	21	0	4	0
October	5.5	N.	23	NE.	0	18	16	5	1	4	3	6	6	3	21	3	7	6	5	0	0	0	0	0	0	1	0
November	6.3	NE.	28	NW.	0	12	15	5	6	3	4	2	11	2	15	6	9	5	3	0	0	0	0	0	2	0	0
December	7.4	SE.	35	SW.	0	4	6	7	20	5	3	4	13	0	14	8	9	6	5	0	0	1	0	0	9	0	0
Year	6.2	NE.	36	NW.	0	88	127	85	106	75	78	70	90	11	125	118	122	127	92	3	0	5	4	70	32	50	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

16489

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

MOORHEAD, MINN.

[λ = 46° 52′ N.; φ = 96° 44′ W.; gravity corr., 0.]

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	29.01	29.65	28.52	—5.9	1.0	6.0	-10.1	—2.0	25	—29	—8	—3	86	81	.032	.039	0.33	0.11	4.2	3.5	4.8
February	29.11	29.77	28.19	.2	9.0	15.4	—4.6	5.4	57	—34	—3	5	86	83	.056	.071	.37	.09	5.3	3.9	4.9
March	28.97	29.43	28.46	15.4	28.9	35.6	12.7	24.2	59	—10	10	20	79	68	.079	.116	.03	.02	2.8	3.8	3.9
April	28.95	29.24	28.36	41.5	57.8	63.0	37.6	50.3	82	22	34	38	74	52	.205	.247	1.46	.32	4.9	5.2	5.1
May	28.88	29.36	28.23	49.6	62.2	67.3	44.2	55.8	92	28	42	42	78	51	.288	.285	1.34	.48	5.4	5.2	5.8
June	28.94	29.21	28.63	55.4	67.8	72.6	50.1	61.4	85	38	50	54	83	62	.369	.424	5.62	1.76	6.1	6.7	5.8
July	28.95	29.23	28.54	59.4	71.3	76.4	54.5	65.4	92	44	55	57	86	63	.442	.482	3.05	.86	5.5	4.7	4.7
August	28.90	29.34	23.56	56.4	71.2	78.3	51.7	65.0	91	35	51	51	82	51	.383	.386	1.49	.43	3.7	4.2	4.4
September	28.86	29.35	28.16	48.6	63.0	71.1	45.5	58.3	91	24	42	45	80	55	.290	.319	1.45	.50	5.8	6.7	5.8
October	29.00	29.46	28.47	31.3	44.7	53.7	28.5	41.1	81	3	24	26	74	50	.133	.147	.21	.12	4.7	4.2	5.0
November	29.00	29.48	28.46	20.0	24.6	30.5	16.0	23.2	61	—12	17	21	89	85	.103	.117	1.88	.76	6.7	5.6	6.8
December	28.88	29.46	28.16	10.0	17.1	22.8	6.0	14.4	43	—17	7	13	87	83	.064	.084	.15	.11	4.8	4.4	5.7
Year	28.95	29.77	28.16	31.8	43.2	49.4	27.7	38.5	92	—34	27	31	82	65	.204	.226	17.38	1.76	5.0	4.8	5.2

NANTUCKET, MASS.

[λ = 41° 17′ N.; φ = 70° 06′ W.; gravity corr., —0.01.]

January	30.02	30.48	29.38	31.3	32.1	36.4	26.5	31.4	53	10	27	26	82	77	.156	.150	3.91	0.96	5.6	3.6	6.3
February	29.86	30.44	28.88	24.7	26.3	31.8	19.8	25.8	44	1	18	21	74	79	.106	.118	1.56	.65	5.4	3.9	4.8
March	29.94	30.50	29.21	34.1	35.1	39.3	29.8	34.6	47	21	29	29	82	80	.163	.165	4.41	1.24	5.0	3.3	5.4
April	30.04	30.74	29.30	43.1	42.1	48.0	37.9	43.0	60	29	38	38	82	86	.234	.233	2.52	.54	4.9	4.6	6.2
May	30.05	30.43	29.68	53.9	51.8	60.0	47.5	53.8	86	38	48	49	82	90	.347	.349	4.92	2.66	3.9	3.7	5.4
June	30.08	30.45	29.86	62.5	60.1	68.6	56.3	62.4	89	50	58	58	86	92	.488	.483	1.29	.44	4.0	3.6	6.0
July	29.96	30.21	29.70	67.2	64.2	71.7	61.1	66.4	80	56	60	60	78	87	.522	.519	4.06	1.68	3.2	4.0	5.2
August	29.96	30.24	29.66	68.7	66.3	74.3	63.3	68.8	80	57	62	63	82	89	.577	.577	4.46	2.94	4.5	2.1	5.0
September	30.04	30.35	29.69	64.5	63.0	69.6	59.3	64.4	86	48	58	58	80	84	.496	.494	1.69	.69	4.2	3.0	4.5
October	30.01	30.58	29.36	52.8	51.6	56.9	46.3	51.6	66	37	42	41	69	69	.293	.277	1.91	1.36	4.8	3.3	5.3
November	30.16	30.64	29.15	47.9	46.7	52.2	42.2	47.2	66	26	43	42	84	85	.295	.281	4.86	1.10	5.6	5.0	6.8
December	30.10	30.77	29.46	39.6	40.0	44.7	34.6	39.6	59	22	34	34	80	78	.201	.207	2.73	.95	6.5	5.7	6.6
Year	30.02	30.77	28.88	49.2	48.3	54.5	43.7	49.1	89	1	43	43	80	83	.323	.321	38.32	2.94	4.8	3.8	5.6

NARRAGANSETT PIER, R. I.

[λ = 41° 19′ N.; φ = 71° 17′ W.; gravity corr., —.]

January						40.1	21.0	30.6	55	3							4.67	1.17			
February						31.5	13.9	22.7	46	— 7							1.26	.50			
March						43.1	27.2	35.2	50	15							4.11	1.23			
April						50.4	36.3	43.4	63	25							6.61	3.22			
May						64.3	46.5	55.4	91	34							4.58	1.41			
June						73.5	58.6	66.0	91	45							3.76	1.92			
July						75.4	59.8	67.6	86	51							4.97	1.37			
August						77.3	62.4	69.8	85	45							2.92	1.20			
September						72.0	56.4	64.2	87	40							2.11	.96			
October						57.2	38.6	47.9	68	26							4.15	2.20			
November						52.7	36.8	44.8	70	16							5.09	1.29			
December						42.7	26.4	34.6	58	9							2.14	.65			
Year						56.7	40.3	48.5	91	— 7							46.37	3.22			

NASHVILLE, TENN.

[λ = 36° 10′ N.; φ = 86° 47′ W.; gravity corr., —0.02]

January	29.49	29.80	28.75	31.1	37.6	41.3	28.0	34.6	64	— 3	27	29	85	72	.167	.177	5.71	1.59	7.2	6.1	7.0
February	29.62	29.91	29.14	23.4	34.5	38.6	21.9	30.2	75	— 6	18	22	82	62	.106	.131	.98	.50	6.0	4.7	4.8
March	29.48	29.86	28.98	42.9	51.4	57.6	39.7	48.6	85	22	36	38	76	63	.223	.244	5.09	1.56	6.3	4.9	5.4
April	29.40	29.76	29.08	53.5	64.2	69.6	49.9	59.8	86	32	47	46	79	55	.332	.320	3.07	1.30	4.0	3.9	4.4
May	29.48	29.69	29.24	60.3	69.4	75.7	55.3	65.5	93	40	53	53	79	59	.431	.439	2.05	.50	4.6	3.5	5.0
June	29.48	29.68	29.30	72.8	80.7	88.0	66.6	77.3	96	58	64	61	75	54	.602	.551	2.90	1.43	3.7	4.8	3.7
July	29.46	29.63	29.09	71.8	78.7	85.3	68.4	76.8	95	62	66	67	83	68	.655	.672	7.14	2.01	4.9	4.7	5.1
August	29.43	29.59	29.27	72.8	81.1	89.1	68.8	79.0	95	58	66	67	79	64	.636	.673	1.40	.65	3.0	4.0	3.3
September	29.51	29.66	29.32	68.8	78.0	86.5	65.3	75.9	94	44	62	62	81	59	.590	.583	6.69	4.93	2.4	2.1	2.4
October	29.55	29.80	29.25	45.6	59.8	68.5	43.1	55.8	84	32	38	40	74	50	.236	.262	1.57	.63	2.6	2.5	2.5
November	29.58	29.93	28.88	43.8	52.1	58.4	40.2	49.3	76	22	37	41	78	66	.240	.275	2.14	1.54	6.4	5.2	6.3
December	29.52	29.82	29.06	37.5	43.0	48.8	33.9	41.4	70	12	32	32	81	66	.194	.196	4.09	2.37	7.1	6.2	6.6
Year	29.50	29.93	28.75	52.0	60.9	67.3	48.4	57.8	96	— 6	46	46	79	62	.368	.377	42.83	4.93	4.8	4.4	4.7

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

MOORHEAD, MINN.

[H = 935 ft.; h_t = 54 ft.; h_r = 44 ft.; h_a = 60 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	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	10.2	NW.	36	SE.	0	10	0	1	7	10	3	5	25	1	11	13	7	9	3	9	0	0	31	0	31	0	0
February	10.3	NW.	36	NW.	0	8	0	2	2	9	6	6	21	2	12	4	12	10	4	8	0	0	21	0	26	0	0
March	13.0	N.	48	SE.	2	18	3	3	6	8	4	6	11	3	16	12	3	2	0	2	0	0	13	0	27	0	0
April	12.9	N.	55	SE.	2	15	7	5	8	14	0	5	6	0	14	5	11	9	8	0	0	0	0	0	8	2	0
May	10.8	N.	61	SE.	4	21	3	3	10	10	6	4	5	0	11	8	12	11	7	0	0	1	0	1	4	0	0
June	10.6	NW.	41	SE.	1	18	0	2	5	9	4	9	13	0	5	15	10	14	14	0	0	0	0	0	0	8	0
July	8.9	S.	35	SW.	0	11	3	4	10	14	5	8	7	0	11	13	7	10	9	0	0	1	0	1	0	6	0
August	9.4	N.	38	SE.	0	18	0	1	11	13	1	6	12	0	12	13	6	10	8	0	0	0	0	1	0	6	1
September	12.1	N.	44	N.	2	11	2	3	10	13	1	8	12	0	6	14	10	7	6	0	1	0	0	1	4	3	3
October	12.0	NW.	40	NW.	1	17	1	1	4	12	6	5	16	0	13	8	10	5	2	3	0	0	5	0	19	0	1
November	9.2	S.	42	SE.	2	12	1	2	3	13	6	14	8	1	5	10	15	12	9	8	0	1	16	0	27	1	1
December	11.4	S.	42	SE.	2	10	0	0	7	18	6	8	13	0	8	9	14	4	2	4	0	0	22	0	30	0	0
Year	10.9	N.	61	SE.	16	169	20	27	83	143	48	84	149	7	124	124	117	103	72	34	1	3	108	4	176	26	6

NANTUCKET, MASS.

[H = 14 ft.; h_t = 43 ft.; h_r = 38 ft.; h_a = 54 ft.]

Month.	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.
January	12.0	N.	46	SW.	1	18	14	4	3	1	3	7	11	1	10	6	15	17	15	7	0	4	11	0	22	0	0
February	14.0	N.	46	S.	3	24	11	4	1	0	2	8	6	0	12	7	9	6	6	5	0	0	12	0	28	0	0
March	12.9	NE.	36	N.	0	13	17	4	4	1	6	4	13	0	11	8	12	14	10	4	0	4	1	0	21	0	0
April	12.6	SW.	50	SW.	2	5	8	4	12	1	14	7	9	0	11	5	14	13	10	0	0	3	0	0	4	0	0
May	9.8	NW.	34	SE.	0	4	4	6	6	3	5	16	18	0	13	7	11	10	9	0	0	11	0	0	0	0	0
June	8.8	W.	34	E.	0	3	3	8	12	4	12	12	6	0	8	11	11	12	9	0	0	5	0	0	0	3	0
July	8.0	W.	30	S.	0	10	3	4	5	4	12	13	11	0	10	13	8	12	11	0	0	4	0	0	0	3	0
August	7.8	NW.	20	NE.	0	4	4	5	4	2	8	15	20	0	9	16	6	5	5	0	0	8	0	0	0	2	0
September	8.7	NW.	25	SW.	0	2	8	8	6	3	7	12	14	0	13	9	8	11	8	0	0	6	0	0	0	3	0
October	12.5	NE.	42	S.	1	9	13	5	4	5	9	9	8	0	13	9	9	5	4	0	0	1	0	0	0	0	0
November	12.1	SE.	42	E.	1	9	6	7	11	3	9	8	7	0	8	6	16	17	14	0	0	7	0	0	2	0	0
December	14.9	NE.	51	E.	3	8	12	8	6	2	8	7	11	0	11	4	16	12	10	5	0	1	2	0	8	1	0
Year	11.2	NW.	51	E.	11	109	103	67	74	29	95	118	134	1	129	101	135	134	111	21	0	54	26	0	85	12	0

NARRAGANSETT PIER, R. I.

[H = — ft.; h_t = 10 ft.; h_r = 1 ft.; h_a = — ft.]

Month.	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.
January	.....	NW.	....	.....	1	6	1	0	2	0	4	6	12	0	12	5	14	15	14	9	0	1	6	0	26	0	0
February	.....	NW.	....	.....	3	0	4	0	0	0	8	3	13	0	16	4	8	6	4	8	1	0	12	0	28	0	1
March	.....	SW.	....	.....	0	1	6	1	2	2	9	2	8	0	15	2	14	14	13	4	0	0	0	0	25	0	0
April	.....	SW.	....	.....	0	1	7	4	1	2	10	1	4	0	13	2	15	16	14	0	0	2	0	0	4	2	0
May	.....	SW.	....	.....	0	1	7	1	2	3	9	7	1	0	17	5	9	9	8	0	0	5	0	1	0	1	0
June	.....	S.	....	.....	0	3	9	2	3	10	2	1	0	0	17	0	13	8	5	0	0	8	0	1	0	3	0
July	.....	SW.	....	.....	1	1	0	0	3	7	18	2	0	0	17	4	10	11	8	0	0	2	0	0	0	3	0
August	.....	SW.	....	.....	0	0	0	5	0	3	13	7	3	0	21	3	7	5	4	0	0	1	0	0	0	3	0
September	.....	SW.	....	.....	0	1	2	3	2	7	7	7	1	0	17	6	7	5	5	0	0	1	0	0	0	2	0
October	.....	SW.	....	.....	1	1	3	0	0	4	14	2	7	0	18	5	8	7	6	0	0	0	0	0	6	0	0
November	.....	W.	....	.....	0	4	7	2	0	0	6	9	2	0	12	1	17	15	13	0	0	4	0	0	7	0	0
December	.....	NE.	....	.....	3	1	9	1	2	1	8	1	8	0	12	3	16	6	6	2	0	0	7	0	20	0	0
Year	.....	SW.	....	.....	9	20	55	19	17	39	108	48	59	0	187	40	138	117	100	23	1	24	25	2	116	14	1

NASHVILLE, TENN.

[H = 545 ft.; h_t = 128 ft.; h_r = 116 ft.; h_a = 134 ft.]

Month.	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.
January	8.2	N.	36	SE.	0	11	4	3	9	6	9	8	11	1	4	11	16	13	13	5	1	2	6	0	20	3	0
February	6.8	NW.	29	NW.	0	7	5	4	0	5	4	9	21	1	13	6	9	6	5	6	0	0	10	0	21	0	0
March	8.1	NW.	36	NW.	0	7	2	4	9	13	6	4	17	0	13	4	14	11	11	1	0	0	0	0	9	2	0
April	7.4	NW.	48	SE.	1	9	6	2	11	7	6	6	13	0	14	8	8	13	8	0	0	0	0	0	0	5	0
May	6.4	S.	36	NW.	0	7	4	5	11	17	6	1	11	0	12	7	12	12	9	0	1	1	0	3	0	7	0
June	4.9	NW.	35	SE.	0	13	1	3	5	2	11	7	18	0	15	10	5	9	6	0	0	0	0	13	0	7	0
July	5.5	NW.	27	NW.	0	3	4	3	7	4	16	11	13	1	10	12	9	15	10	0	1	1	0	3	0	12	0
August	5.0	SW.	36	NW.	0	12	3	1	4	8	13	7	14	0	17	12	2	7	6	0	0	0	0	15	0	10	0
September	5.1	NW.	46	NW.	1	5	2	9	1	14	6	2	19	2	20	10	0	5	5	0	0	1	0	13	0	5	0
October	5.1	NW.	24	S.	0	6	7	0	3	6	3	10	27	0	22	5	4	5	4	0	0	2	0	0	0	2	0
November	7.0	SE.	44	SE.	1	4	2	7	16	7	4	6	14	0	9	7	14	6	5	0	0	0	0	0	7	0	0
December	9.1	SE.	46	SE.	1	1	1	4	28	7	5	2	14	0	4	14	13	10	9	3	0	1	3	0	14	0	0
Year	6.6	NW.	48	SE.	4	85	41	45	104	96	89	73	192	5	153	106	106	112	91	15	3	8	19	47	71	53	0

a By eye observations at 8 a.m. and 8 p.m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

NEAHBAY, WASH.

[λ=48° 23′ N.; φ=124° 36′ W.; gravity corr., —.]

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						46.2	34.2	40.2	58	28							12.44	2.85			
February						50.7	39.9	45.3	58	32							10.37	1.98			
March						51.9	36.5	44.2	57	25							13.09	4.03			
April						54.5	38.6	46.6	64	31							11.11	1.90			
May						60.9	42.9	51.9	81	35							10.77	1.50			
June						65.4	46.7	56.0	74	38							3.12	1.30			
July						67.7	49.0	58.4	78	40							2.40	1.10			
August						66.9	48.0	57.4	77	40							1.37	.80			
September																					
October						57.6	44.5	51.0	72	34							1.27	.37			
November						52.6	39.5	46.0	62	30							11.55	1.60			
December						50.5	37.3	43.9	59	27							23.88	2.00			
Year																					

NEW BRUNSWICK, N. J.

[λ=40° 30′ N.; φ=74° 27′ W.; gravity corr., —.]

January						36.2	20.6	28.4	52	8							5.20	1.71			
February						32.3	13.9	23.1	48	—10							.95	.50			
March						46.2	29.1	37.6	60	17							3.21	.71			
April						58.7	39.7	49.2	85	27							4.59	.96			
May						73.8	48.6	61.2	96	33							2.72	1.22			
June						82.5	60.9	71.7	98	51							3.03	.93			
July						81.9	59.8	70.8	94	50							4.24	.83			
August						86.2	62.2	74.2	94	46							4.40	1.75			
September						82.4	57.1	69.8	99	36							1.34	.69			
October						61.7	36.9	49.3	73	25							3.69	1.46			
November						55.2	35.6	45.4	74	19							3.93	1.57			
December						46.4	27.6	37.0	65	11							2.64	1.14			
Year						62.0	41.0	51.5	99	—10							39.94	1.75			

NEW HAVEN, CONN.

[λ=41° 18′ N.; φ=72° 56′ W.; gravity corr., —0.01.]

January	29.93	30.36	29.28	24.7	27.2	33.2	20.2	26.7	48	5	19	20	77	72	.114	.114	5.13	1.33	5.2	3.6	5.0
February	29.80	30.40	28.73	18.4	24.6	30.1	14.8	22.4	48	— 7	10	14	67	60	.072	.086	.99	.54	4.4	2.6	4.1
March	29.86	30.40	29.19	31.8	34.8	41.1	27.7	34.4	52	17	21	24	63	64	.118	.133	2.36	.68	4.0	4.4	4.8
April	29.93	30.59	29.18	44.5	46.7	54.1	38.4	46.2	77	28	34	36	70	70	.209	.228	3.11	1.44	5.4	5.0	5.4
May	29.94	30.29	29.52	57.0	58.1	68.3	48.8	58.6	92	35	47	48	72	71	.346	.362	1.70	.47	4.8	5.0	4.0
June	29.96	30.35	29.66	68.0	67.8	76.7	60.0	68.4	95	50	60	60	76	78	.519	.532	2.41	.76	3.8	4.8	4.3
July	29.84	30.12	29.64	67.8	68.9	77.2	60.7	69.0	89	51	59	60	74	76	.505	.539	3.77	.97	4.1	5.2	4.3
August	29.84	30.17	29.59	70.2	72.0	80.4	62.4	71.4	87	50	62	63	76	73	.573	.586	3.91	1.81	4.6	2.9	4.2
September	29.94	30.24	29.59	63.8	66.9	75.9	57.0	66.4	96	40	56	57	75	73	.468	.503	2.51	1.29	3.8	2.4	3.3
October	29.91	30.46	29.33	46.0	49.5	57.5	39.7	48.6	69	26	37	39	70	68	.233	.255	3.32	1.98	2.9	2.1	3.8
November	30.05	30.54	29.13	40.7	43.9	50.9	36.2	43.6	65	19	36	38	82	81	.227	.252	4.84	1.32	5.1	3.7	5.8
December	30.01	30.68	29.36	31.8	36.1	42.4	28.5	35.4	58	7	24	28	71	70	.141	.171	1.91	.71	4.9	3.5	5.5
Year	29.92	30.68	28.73	47.1	49.7	57.3	41.2	49.3	96	— 7	39	41	73	71	.294	.313	35.96	1.98	4.5	3.8	4.5

NEW LONDON, CONN.

[λ=41° 21′ N.; φ=72° 05′ W.; gravity corr., —0.01.]

January	30.02	30.44	29.38	27.4	29.0	35.3	21.9	28.6	54	7	23	24	84	80	.137	.135	5.54	1.36	5.7	4.2	5.5
February	29.88	30.49	28.80	19.7	24.4	30.0	15.6	22.8	42	— 5	14	18	76	75	.086	.104	.43	.28	4.8	2.1	4.8
March	29.95	30.48	29.24	33.1	34.5	41.2	28.5	34.8	50	17	28	28	79	78	.152	.158	4.12	1.35	4.6	3.7	5.6
April	30.03	30.70	29.32	44.4	45.0	51.3	37.8	44.6	68	27	38	39	79	82	.236	.249	4.51	1.46	4.8	3.9	6.0
May	30.04	30.40	29.65	55.6	55.1	64.8	47.8	56.3	93	34	49	51	80	86	.360	.383	4.32	1.40	5.5	3.2	5.4
June	30.06	30.45	29.77	66.2	64.6	72.2	58.4	65.3	93	47	62	62	87	90	.550	.552	2.16	1.56	4.2	4.6	5.6
July	29.93	30.20	29.71	67.7	68.5	75.0	61.2	68.1	84	54	62	63	83	84	.562	.580	5.83	1.42	5.3	4.0	4.7
August	29.92	30.26	29.66	69.8	70.2	77.7	63.1	70.4	85	50	63	63	79	79	.584	.585	2.41	1.24	4.4	3.0	3.7
September	30.01	30.32	29.69	64.1	65.7	73.3	57.5	65.4	93	41	58	60	82	83	.499	.539	1.68	.82	3.3	1.8	3.2
October																					
November																					
December																					
Year																					

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

NEAHBAY, WASH.

[H = — ft.; h_t = 8 ft.; h_r = 0 ft.; h_a = — ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January		E.				0	0	16	5	2	5	0	0	3	6	3	22	13	13	3	0	0	0	0	8	0	0
February		E.				0	0	12	5	0	8	1	0	2	2	3	23	18	18	0	0	0	0	0	0	0	0
March		E.				0	0	9	7	1	9	3	0	2	7	7	17	18	18	2	1	0	0	0	6	0	0
April		W.				0	0	4	10	0	3	12	0	1	7	4	19	19	19	0	0	0	0	0	1	0	0
May		SW.				0	0	3	5	0	11	10	0	2	8	5	18	19	19	0	0	0	0	0	0	0	0
June		W.				0	0	0	1	1	9	16	0	3	9	6	15	8	8	0	0	0	0	0	0	0	0
July		W.				0	0	1	1	2	8	16	0	3	11	9	11	6	6	0	0	0	0	0	0	0	0
August		W.				0	0	0	0	3	9	16	0	3	19	4	8	4	4	0	0	0	0	0	0	0	0
September																											
October		E.				0	0	11	1	2	5	3	0	9	10	4	17	6	6	0	0	5	0	0	0	0	0
November		E.				0	0	11	3	0	7	4	0	5	6	1	23	17	16	0	1	0	0	0	3	0	0
December		SW.				0	0	8	4	3	11	5	0	0	1	3	27	28	26	2	2	0	0	0	3	0	0
Year																											

NEW BRUNSWICK, N. J.

[H = — ft.; h_t = 5 ft.; h_r = 3 ft.; h_a = — ft.]

January		W.				2	4	6	0	0	3	12	4	0	2	17	12	14	10	6	0	1	8	0	28	0	0
February		W.				2	1	0	1	0	2	13	9	0	6	15	7	4	3	3	0	0	10	0	27	0	0
March		W.				2	2	3	3	1	4	9	7	0	3	15	13	12	12	4	0	0	1	0	21	0	0
April		E.				1	1	9	6	4	1	4	4	0	4	12	14	12	11	0	0	0	0	0	6	1	0
May		SW.				0	0	4	2	7	9	7	2	0	6	17	8	9	8	0	0	0	0	4	0	3	2
June		E.				1	2	14	6	3	2	2	0	0	0	20	10	10	9	0	1	0	0	4	0	8	0
July		W.				1	2	6	2	3	6	6	5	0	3	19	9	12	9	0	0	0	0	2	0	7	0
August		NW.				1	0	2	4	6	6	5	7	0	6	23	2	8	6	0	1	0	0	7	0	5	0
September		W.				3	0	3	6	2	5	8	3	0	8	22	0	7	5	0	0	0	0	7	0	4	0
October		NW.				3	0	4	5	4	5	3	7	0	10	16	5	5	4	0	0	0	0	0	10	0	0
November		SW.				1	1	6	4	2	6	4	6	0	3	15	12	14	11	0	0	0	0	0	11	0	0
December		NW.				0	4	6	1	3	3	6	8	0	5	8	18	7	6	1	0	0	4	0	18	0	0
Year		W.				17	17	63	40	35	52	79	62	0	56	199	110	114	94	14	2	1	23	24	121	28	2

NEW HAVEN, CONN.

[H = 107 ft.; h_t = 118 ft.; h_r = 110 ft.; h_a = 140 ft.]

January	9.2	W.	38	W.	0	18	2	0	1	7	10	19	5	0	11	10	10	15	11	8	0	3	16	0	29	0	0
February	11.1	W.	47	N.	1	13	0	0	0	4	9	17	13	0	15	7	6	5	4	5	0	0	14	0	28	0	0
March	10.7	N.	44	W.	3	22	3	2	1	10	7	9	8	0	12	10	9	13	10	5	0	1	2	0	26	0	0
April	9.3	N.	38	SE.	0	12	11	5	10	8	4	4	6	0	13	4	13	15	10	1	0	3	0	0	4	0	0
May	8.4	S.	31	SE.	0	8	5	3	8	14	9	6	9	0	15	11	5	11	7	0	0	1	0	1	0	2	0
June	6.4	SE.	27	N.	0	8	7	7	18	8	5	4	3	0	14	7	9	9	7	0	0	7	0	2	0	5	0
July	6.6	S.	34	W.	0	18	1	2	4	16	11	3	7	0	14	12	5	12	12	0	1	2	0	0	0	3	0
August	7.6	SW.	25	SE.	0	6	3	2	6	11	15	8	11	0	13	12	6	9	7	0	0	2	0	0	0	5	0
September	8.3	N.	33	SE.	0	15	6	3	4	7	14	5	6	0	17	10	3	7	7	0	0	2	0	3	0	2	0
October	10.1	NW.	38	N.	0	15	4	1	1	7	8	9	17	0	17	8	6	7	6	0	0	2	0	0	4	0	0
November	8.9	N.	43	NW.	1	18	9	1	2	8	8	6	8	0	11	4	15	13	11	1	0	6	0	0	7	0	0
December	11.0	N.	55	S.	3	24	2	3	1	9	9	7	7	0	10	8	13	7	7	1	0	3	8	0	18	0	0
Year	9.0	N.	55	S.	8	177	53	29	56	109	109	97	100	0	162	103	100	123	99	21	1	32	40	6	116	17	0

NEW LONDON, CONN.

[H = 45 ft.; h_t = 50 ft.; h_r = 2 ft.; h_a = 54 ft.]

January	7.7	NW.	41	SE.	1	9	5	2	4	1	9	14	18	0	8	13	10	14	14	5	0	3	14	0	28	0	0
February	8.9	NW.	47	NE.	1	7	0	0	1	1	5	14	27	1	8	14	6	6	2	6	0	0	12	0	28	0	1
March	8.5	NW.	37	NW.	0	6	4	3	1	7	7	15	19	0	9	10	12	15	13	3	0	5	1	0	24	0	0
April	8.2	NW.	40	SE.	1	10	5	9	9	4	6	7	10	0	9	8	13	13	11	1	0	5	0	0	4	1	0
May	6.9	SW.	30	E.	0	6	3	2	8	7	15	7	13	1	9	17	5	10	9	0	0	8	0	1	0	0	0
June	6.4	S.	24	NW.	0	5	6	6	15	16	4	1	7	0	10	8	12	5	5	0	0	8	0	1	0	2	0
July	6.3	NW.	30	NW.	0	5	1	2	5	10	12	8	19	0	11	18	7	11	11	0	0	1	0	0	0	3	0
August	6.2	SW.	24	SW.	0	6	0	2	7	6	17	10	14	0	15	12	4	7	6	0	0	0	0	0	0	1	0
September	6.5	N.	40	S.	1	14	7	2	6	8	6	9	6	2	17	9	4	7	6	0	0	1	0	2	0	1	0
October																											
November																											
December																											
Year																											

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

NEW ORLEANS, LA.

[λ = 29° 58′ N.; φ = 90° 04′ W.; gravity corr., —0.04.]

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	30.03	30.38	29.53	48.5	53.3	59.8	44.5	52.2	77	27	44	44	86	74	.318	.324	7.19	4.07	6.4	5.5	5.9
February	30.15	30.47	29.72	40.3	46.7	52.5	37.6	45.0	74	16	36	39	84	76	.228	.266	3.92	1.25	6.5	6.0	6.0
March	30.04	30.35	29.61	56.8	63.3	70.1	54.4	62.2	81	39	52	52	85	69	.419	.417	3.81	1.67	6.0	5.2	4.6
April	29.96	30.29	29.69	63.2	68.6	75.9	59.6	67.8	87	50	56	56	80	66	.467	.464	2.58	1.31	4.2	3.4	3.6
May	30.00	30.20	29.86	70.8	74.6	81.0	66.8	73.9	87	58	65	66	83	76	.634	.652	7.95	4.56	4.2	5.3	4.5
June	30.01	30.10	29.89	78.1	79.5	87.6	73.1	80.4	93	68	72	70	82	75	.781	.740	9.74	2.70	3.6	6.3	5.0
July	30.01	30.12	29.83	79.3	81.1	89.0	74.8	81.9	94	71	73	72	83	74	.816	.776	6.07	1.59	2.8	5.5	3.8
August	29.95	30.13	29.74	78.6	80.7	88.2	75.0	81.6	92	70	73	73	84	78	.818	.805	6.79	2.67	4.7	6.1	3.7
September	29.99	30.11	29.85	77.6	81.2	88.5	74.9	81.7	94	57	70	70	79	70	.754	.750	1.97	1.09	2.4	3.3	1.7
October	30.03	30.25	29.78	62.2	70.4	76.8	60.4	68.6	87	52	53	54	73	60	.421	.443	1.21	1.01	3.5	2.3	2.0
November	30.12	30.40	29.80	54.7	61.2	67.9	53.1	60.5	81	37	49	52	82	73	.375	.405	.69	.48	4.7	4.7	4.4
December	30.12	30.40	29.76	47.9	54.4	62.1	45.5	53.8	75	34	41	44	79	69	.285	.316	4.52	1.55	3.4	3.5	4.0
Year	30.03	30.47	29.53	63.2	67.9	75.0	60.0	67.5	94	16	57	58	82	72	.526	.530	56.44	4.56	4.4	4.8	4.1

NEW YORK CITY, N. Y.

[λ = 40° 43′ N.; φ = 74° 00′ W.; gravity corr., —0.01.]

January	29.73	30.14	28.97	28.3	29.4	37.1	23.1	30.1	55	10	24	22	82	72	.137	.125	5.62	1.97	5.4	3.8	6.2
February	29.62	30.21	28.73	21.5	27.0	32.0	18.4	25.2	48	— 3	14	17	71	65	.087	.102	.82	.57	4.8	2.9	4.9
March	29.67	30.20	29.06	33.1	38.0	43.8	28.9	36.4	63	16	25	26	71	64	.139	.148	2.80	.82	3.9	4.7	5.6
April	29.71	30.33	28.97	45.6	48.5	54.6	40.8	47.7	82	30	37	39	74	72	.233	.254	2.92	.82	4.3	5.0	5.9
May	29.74	30.05	29.32	56.7	60.2	67.5	51.4	59.4	95	38	49	50	76	70	.362	.376	2.04	1.03	4.7	3.9	5.0
June	29.75	30.13	29.45	68.2	69.0	77.2	62.8	70.0	95	52	61	62	79	79	.537	.560	2.57	.86	4.0	5.1	5.3
July	29.64	29.91	29.44	67.7	72.1	78.0	63.5	70.8	89	55	60	60	76	67	.520	.527	4.40	1.34	4.7	4.3	5.4
August	29.64	29.96	29.38	70.7	74.5	81.3	66.4	73.8	90	55	63	65	78	73	.595	.629	4.12	1.17	3.7	4.0	4.4
September	29.73	30.02	29.36	65.9	70.8	77.8	61.6	69.7	97	44	58	58	76	67	.506	.521	.95	.58	3.9	2.3	3.4
October	29.71	30.23	29.15	47.4	52.8	58.6	43.5	51.0	71	34	39	42	72	68	.245	.278	4.04	2.78	3.2	2.2	3.6
November	29.84	30.30	29.01	43.1	45.6	52.5	39.4	46.0	72	24	39	40	86	82	.257	.268	3.58	1.38	4.6	4.0	5.6
December	29.80	30.43	29.21	33.6	37.8	42.9	30.9	36.9	58	13	27	30	74	72	.159	.185	1.87	1.09	4.8	4.9	6.2
Year	29.72	30.43	28.73	48.5	52.1	58.6	44.2	51.4	97	— 3	41	43	76	71	.315	.331	35.73	2.78	4.3	3.9	5.1

NORFOLK, VA.

[λ = 36° 51′ N.; φ = 76° 17′ W.; gravity corr., —0.02.]

January	30.03	30.38	29.41	37.1	40.3	48.0	32.6	40.3	70	15	31	32	80	73	.194	.192	4.30	1.03	5.4	4.9	4.5
February	30.01	30.50	29.26	27.5	33.0	39.4	24.4	31.9	68	2	21	23	75	67	.117	.131	2.62	.91	4.4	3.1	3.0
March	30.00	30.47	29.53	43.8	46.3	56.0	37.6	46.8	76	29	36	39	75	78	.224	.248	5.36	1.96	5.3	4.8	4.5
April	29.97	30.55	29.38	53.9	56.2	66.2	49.3	57.8	84	39	47	50	79	81	.341	.375	6.07	2.16	4.2	4.6	3.3
May	30.02	30.24	29.67	61.3	62.6	72.2	55.7	64.0	96	44	56	58	83	87	.461	.505	8.60	2.41	5.9	4.8	3.8
June	30.00	30.33	29.78	73.2	74.2	84.7	67.8	76.2	99	58	65	67	77	78	.636	.669	2.39	.51	3.7	5.1	2.6
July	29.94	30.15	29.64	73.8	74.7	83.8	68.9	76.4	95	63	66	66	77	75	.648	.648	4.36	1.44	4.5	5.1	5.1
August	29.94	30.16	29.72	75.6	76.8	87.0	70.4	78.7	95	63	70	70	83	80	.733	.733	2.58	.78	3.4	2.9	3.4
September	30.02	30.30	29.75	73.5	74.5	84.6	68.5	76.6	100	54	64	65	74	73	.625	.640	.19	.12	3.3	1.8	2.1
October	30.03	30.45	29.66	55.2	58.3	66.8	50.3	58.6	76	42	45	46	70	64	.314	.317	1.99	1.26	3.5	2.4	3.2
November	30.12	30.56	29.46	49.5	52.7	60.0	46.2	53.1	80	28	46	46	87	79	.323	.334	3.41	1.03	6.3	5.2	5.9
December	30.09	30.65	29.51	40.4	45.4	52.5	37.9	45.2	69	24	35	40	81	80	.218	.260	3.54	1.29	5.2	5.4	5.1
Year	30.01	30.65	29.26	55.4	57.9	66.8	50.8	58.8	100	2	48	50	78	76	.403	.421	45.41	2.41	4.6	4.2	3.9

NORTHFIELD, VT.

[λ = 44° 10′ N.; φ = 72° 41′ W.; gravity corr., 0.]

January	29.02	29.60	28.24	11.9	17.0	25.4	6.2	15.8	39	—15	6	11	77	75	.070	.079	1.99	0.87	6.2	5.5	5.5
February	28.89	29.44	27.85	9.1	16.4	22.4	4.2	13.8	41	—17	2	8	71	66	.051	.066	.82	.72	5.1	4.3	5.4
March	28.99	29.57	28.38	18.7	24.4	32.5	12.0	22.2	45	— 6	13	17	76	70	.084	.095	1.36	.42	5.7	3.8	5.2
April	29.09	29.64	28.38	36.0	41.5	51.2	29.2	40.2	71	16	30	32	73	72	.175	.190	4.60	2.15	6.0	3.9	5.7
May	29.09	29.50	28.64	55.9	57.8	69.0	44.6	56.8	90	25	44	46	66	66	.312	.338	3.38	1.67	4.5	4.5	5.3
June	29.15	29.52	28.79	65.3	65.0	78.2	54.1	66.2	90	41	56	57	74	78	.457	.477	2.11	.81	4.8	4.8	5.4
July	29.03	29.33	28.72	62.5	63.7	75.2	52.2	63.7	89	41	54	55	74	76	.423	.449	2.82	.97	6.2	4.8	6.0
August	29.01	29.32	28.68	60.7	63.5	74.1	51.7	62.9	85	36	55	58	81	82	.432	.488	4.64	2.09	6.0	5.0	6.0
September	29.11	29.45	28.76	54.8	56.8	70.1	45.5	57.8	90	26	48	50	79	80	.351	.384	2.60	1.08	4.3	3.3	4.6
October	29.07	29.60	28.65	38.3	40.1	51.5	30.8	41.2	67	15	31	32	74	73	.177	.188	.45	.22	6.1	4.3	5.8
November	29.20	29.67	28.29	31.4	34.6	44.0	25.5	34.8	66	0	26	29	78	78	.150	.170	5.68	1.58	6.4	6.4	6.7
December	29.14	29.77	28.21	20.8	24.5	33.4	15.3	24.4	61	—13	14	18	74	75	.098	.117	4.75	1.71	6.5	4.8	5.9
Year	29.07	29.77	27.85	39.0	42.1	52.3	30.9	41.6	90	—17	32	34	75	74	.232	.253	35.20	2.15	5.6	4.6	5.6

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

NEW ORLEANS, LA.

[H = 54 ft.; h_t = 112 ft.; h_r = 111 ft.; h_a = 120 ft.]

Month	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	9.6	N.	32	N.	0	10	11	9	5	12	2	1	10	2	10	7	14	14	12	0	0	1	0	0	2	2	0
February	10.9	NE.	40	NW.	1	9	10	9	7	2	6	3	10	0	7	11	10	12	10	2	0	2	2	0	8	1	0
March	10.1	S.	37	N.	0	9	11	5	12	12	7	1	5	0	12	10	9	12	10	0	0	2	0	0	0	3	0
April	9.0	SE.	28	NW.	0	5	5	0	15	12	7	7	7	2	16	11	3	6	4	0	1	0	0	0	0	3	0
May	8.3	SE.	34	NE.	0	5	10	8	18	12	2	0	5	2	10	16	5	12	10	0	0	0	0	0	0	10	0
June	6.5	S.	30	N.	0	4	8	6	9	15	13	3	1	1	8	16	6	20	15	0	0	0	0	7	0	11	0
July	6.8	S.	36	NE.	0	1	1	3	3	24	17	10	2	1	17	9	5	15	14	0	0	0	0	14	0	16	0
August	6.0	S.	30	NW.	0	1	6	10	6	15	8	10	4	2	17	11	3	19	12	0	0	0	0	7	0	13	0
September	6.4	SE.	32	NE.	0	6	11	2	22	6	5	4	3	1	26	4	0	11	9	0	0	0	0	10	0	10	0
October	8.1	NE.	30	NW.	0	11	25	3	1	4	5	2	7	4	25	2	4	5	3	0	0	1	0	0	0	0	0
November	9.0	NE.	36	N.	0	9	17	9	10	4	2	2	5	2	14	10	6	4	3	0	0	2	0	0	0	1	0
December	10.5	SE.	38	SE.	0	7	7	9	18	2	6	6	7	0	15	12	4	11	9	0	0	1	0	0	0	1	0
Year	8.4	SE.	40	NW.	1	77	122	73	126	120	80	49	66	17	177	119	69	141	111	2	1	9	2	38	10	71	0

NEW YORK CITY, N. Y.

[H = 314 ft.; h_t = 298 ft.; h_r = 247 ft.; h_a = 326 ft.]

Month	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.
January	10.6	W.	36	W.	0	7	7	4	1	3	11	14	15	0	7	10	14	14	11	6	0	7	8	0	26	0	0
February	13.1	NW.	43	NW.	2	4	5	0	0	2	7	7	31	0	9	12	7	5	3	5	0	1	12	0	27	0	0
March	14.4	NW.	64	NW.	4	12	10	3	1	8	6	4	18	0	10	11	10	12	10	4	0	6	2	0	22	0	0
April	14.5	NW.	54	NW.	3	12	9	8	2	10	2	3	14	0	10	10	10	12	11	1	0	6	0	0	3	1	0
May	12.1	W.	42	NW.	2	6	2	9	2	15	2	12	14	0	12	12	7	8	6	0	0	5	0	1	0	2	0
June	9.7	SE.	40	NW.	1	2	13	8	17	4	6	4	6	0	8	15	7	13	7	0	0	5	0	3	0	8	0
July	11.1	NW.	45	S.	3	6	6	4	5	10	9	5	17	0	12	11	8	14	11	0	0	2	0	0	0	8	0
August	10.8	SW.	62	SW.	2	0	3	3	8	12	12	13	11	0	13	14	4	9	5	0	0	0	0	1	0	8	0
September	11.3	SW.	48	S.	2	2	4	5	6	8	17	6	12	0	19	8	3	8	5	0	0	2	0	4	0	3	0
October	14.7	NW.	48	W.	6	6	7	2	1	10	10	12	14	0	18	5	8	6	5	0	0	1	0	0	0	0	1
November	13.4	S.	42	W.	4	6	10	7	4	13	4	7	9	0	9	10	11	12	9	0	0	10	0	0	3	1	0
December	16.2	NW.	73	W.	7	6	10	5	5	5	9	9	13	0	8	9	14	7	6	1	0	5	7	0	16	0	0
Year	12.7	NW.	73	W.	36	69	86	58	52	100	95	96	174	0	135	127	103	120	89	17	0	50	29	9	97	31	1

NORFOLK, VA.

[H = 57 ft.; h_t = 88 ft.; h_r = 80 ft.; h_a = 93 ft.]

Month	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.
January	10.1	W.	40	SW.	1	9	10	5	2	7	10	16	3	0	13	11	7	11	11	2	0	1	1	0	17	0	0
February	9.9	N.	42	NW.	1	15	9	1	0	0	8	9	14	0	18	6	4	11	7	7	0	0	10	0	23	0	0
March	10.2	N.	42	NW.	1	14	12	4	5	5	10	6	6	0	16	7	8	14	11	2	0	0	0	0	4	1	0
April	9.9	NE.	36	SE.	0	14	13	8	8	9	7	2	9	0	18	7	5	16	13	0	0	0	0	0	0	1	0
May	7.7	NE.	30	NW.	0	11	15	2	14	6	6	2	6	0	17	9	5	14	9	0	0	5	0	2	0	5	0
June	7.5	NE.	27	NW.	0	13	18	4	14	9	6	1	5	0	21	8	1	15	11	0	0	0	0	7	0	7	0
July	7.1	NE.	30	SW.	0	7	16	4	7	10	10	6	2	0	13	7	11	14	10	0	0	0	0	6	0	5	0
August	6.9	SW.	25	NW.	0	4	6	1	15	10	22	2	2	0	17	11	3	8	6	0	0	0	0	10	0	7	0
September	6.9	SE.	30	N.	0	3	14	8	12	5	9	6	3	0	23	7	0	3	2	0	0	0	0	7	0	2	0
October	8.8	NE.	36	NW.	0	8	25	2	7	5	8	1	6	0	19	8	4	3	3	0	0	0	0	0	0	0	0
November	8.6	NE.	40	NW.	1	12	18	1	2	10	5	4	8	0	11	7	12	12	10	0	0	3	0	0	1	1	0
December	9.4	N.	40	W.	1	16	9	3	9	9	7	2	7	0	12	9	10	10	9	3	0	1	0	0	9	0	0
Year	8.6	NE.	42	NW.	5	106	165	43	95	85	108	57	71	0	198	97	70	131	102	14	0	10	11	32	54	29	0

NORTHFIELD, VT.

[H = 872 ft.; h_t = 15 ft.; h_r = 2 ft.; h_a = 59 ft.]

Month	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.
January	8.1	SW.	40	S.	1	8	3	0	5	19	22	1	3	1	9	13	9	11	8	9	0	0	23	0	31	0	1
February	9.1	N.	36	N.	0	16	5	0	1	15	10	3	4	2	9	9	10	8	1	8	0	0	22	0	28	0	0
March	10.2	N.	45	W.	2	20	3	0	0	17	12	3	6	1	13	7	11	12	7	11	0	1	16	0	31	0	1
April	8.9	N.	40	NW.	1	17	5	1	0	16	15	1	5	0	11	6	13	10	9	1	0	1	1	0	20	0	1
May	9.0	S.	37	S.	0	18	1	0	0	29	4	5	5	0	10	12	9	8	6	0	0	1	0	0	3	2	0
June	7.0	S.	36	N.	0	12	6	0	0	24	11	2	3	2	11	10	9	9	9	0	0	0	0	0	0	3	0
July	7.8	S.	27	N.	0	17	4	0	0	17	17	2	5	0	7	14	10	15	9	0	0	1	0	0	0	1	0
August	7.5	SW.	33	SW.	0	7	5	2	0	19	23	4	1	1	8	11	12	16	9	0	0	2	0	0	0	2	0
September	7.7	S.	35	S.	0	15	2	0	0	26	12	2	1	2	11	14	5	5	5	0	0	2	0	1	1	2	1
October	9.9	S.	37	NW.	0	13	3	0	1	19	16	3	5	2	8	12	11	7	5	2	0	3	0	0	16	0	1
November	8.4	SW.	38	S.	0	13	1	0	0	13	28	1	2	2	8	8	14	15	12	7	0	1	3	0	23	0	0
December	9.2	S.	49	SW.	2	17	2	1	1	18	15	2	6	0	9	9	13	13	7	6	0	1	15	0	25	0	0
Year	8.6	S.	49	SW.	6	173	40	4	8	232	185	29	46	13	114	125	126	129	87	44	0	13	80	1	178	10	5

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

NORTH PLATTE, NEBR.

[λ = 41° 08′ N.; φ = 100° 45′ W.; gravity corr., —0.01.]

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	27.03	27.57	26.51	13.4	22.9	32.3	10.3	21.3	56	—11	9	13	79	64	.068	.082	0.14	0.10	5.0	4.8	5.3
February	27.19	27.65	26.76	11.0	23.3	32.5	8.6	20.6	65	—23	5	13	77	63	.070	.092	.84	.73	5.8	5.6	5.7
March	27.04	27.49	26.53	23.9	42.5	50.3	22.1	36.2	83	— 9	17	27	72	55	.099	.160	.09	.09	3.9	4.7	4.5
April	27.01	27.46	26.51	43.4	61.2	67.6	39.2	53.4	84	18	36	38	75	47	.216	.235	1.93	.96	4.5	5.5	4.9
May	27.01	27.45	26.30	49.6	66.4	71.3	45.4	58.4	97	32	40	41	71	42	.255	.261	2.38	1.70	4.5	4.5	4.5
June	27.11	27.34	26.82	58.6	71.9	76.1	54.5	65.3	90	43	54	58	85	64	.419	.496	4.35	1.16	4.9	5.3	5.3
July	27.12	27.37	26.82	62.3	77.0	81.0	58.8	69.9	96	47	56	60	82	57	.463	.523	1.08	.58	4.6	4.9	4.5
August	27.08	27.39	26.76	61.4	78.9	84.1	59.3	71.7	99	48	55	59	82	52	.447	.505	2.13	1.02	3.4	4.0	3.9
September	27.04	27.52	26.53	53.3	74.0	82.8	52.1	67.4	101	26	45	47	75	41	.330	.342	.48	.26	3.4	3.3	3.4
October	27.18	27.41	26.83	34.8	53.1	63.9	32.5	48.2	81	14	28	34	75	50	.160	.214	.09	.08	2.7	2.4	3.4
November	27.10	27.44	26.62	24.4	37.5	47.7	22.8	35.2	75	— 2	20	26	80	64	.108	.143	.96	.50	4.1	5.1	5.2
December	27.06	27.45	26.57	20.6	31.1	42.0	17.6	29.8	67	2	15	20	77	62	.087	.109	.11	.05	3.4	4.3	4.2
Year	27.08	27.65	26.30	38.1	53.3	61.0	35.3	48.1	101	—23	32	36	78	55	.227	.264	14.58	1.70	4.2	3.5	4.6

OKLAHOMA CITY, OKLA.

[λ = 35° 26′ N.; φ = 97° 33′ W.; gravity corr., —0.02.]

Month.	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.
January	28.75	29.35	28.28	26.5	35.2	42.8	23.7	33.2	70	—1	20	26	75	70	.124	.157	0.93	0.44	4.9	4.4	4.4
February	28.92	29.39	28.43	22.5	33.4	39.2	19.8	29.5	64	—8	18	25	80	72	.129	.164	.07	.04	5.5	4.5	6.0
March	28.72	29.10	28.33	40.1	54.6	62.5	37.4	53.0	90	13	33	39	76	58	.210	.264	.82	.35	3.9	3.9	2.9
April	28.64	29.07	28.00	53.5	69.1	75.1	51.1	63.1	88	36	46	49	76	52	.321	.363	.41	.15	4.0	3.2	3.0
May	28.67	29.19	28.36	61.7	74.5	80.9	57.7	69.3	93	41	54	57	79	57	.448	.489	1.34	.57	4.4	3.4	3.4
June	28.73	28.98	28.53	69.7	81.0	86.4	67.2	76.8	98	58	65	67	84	65	.616	.677	3.11	1.33	4.9	3.4	3.0
July	28.72	28.93	28.41	72.3	81.4	87.0	69.6	78.3	100	59	69	71	89	72	.708	.768	5.94	2.13	4.8	4.2	4.2
August	28.70	28.87	28.56	71.0	82.1	89.4	68.8	79.1	97	64	67	68	88	65	.666	.700	4.44	1.43	4.4	3.4	3.0
September	28.74	29.18	28.40	67.5	79.3	87.5	64.7	76.1	98	36	60	60	79	53	.555	.554	2.93	2.68	2.4	1.7	2.1
October	28.85	29.09	28.44	46.8	58.9	66.9	44.5	55.7	83	34	39	43	75	59	.249	.292	2.93	1.00	3.2	3.1	3.2
November	28.81	29.12	28.38	38.6	47.7	54.4	35.6	45.0	77	13	34	40	86	76	.214	.257	5.79	2.76	5.0	3.7	4.1
December	28.78	29.16	28.17	32.0	39.5	47.4	29.5	38.4	67	11	27	32	82	74	.157	.184	3.78	1.55	3.7	2.4	3.5
Year	28.75	29.39	28.00	50.2	61.4	68.3	47.5	57.9	100	—8	44	48	81	64	.366	.406	32.49	2.76	4.3	3.4	3.6

OMAHA, NEBR.

[λ = 41° 16′ N.; φ = 95° 56′ W.; gravity corr., —0.01.]

Month.	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.
January	28.88	29.58	28.28	12.6	21.4	27.9	9.3	18.6	63	—12	7	12	76	66	.071	.082	0.35	0.27	5.0	3.5	5.3
February	29.00	29.51	28.42	14.3	25.2	31.8	11.7	21.8	68	—20	8	15	75	66	.077	.106	.62	.41	6.7	3.9	6.7
March	28.84	29.24	28.28	29.4	42.3	47.8	26.9	37.4	85	0	20	22	68	51	.114	.128	.99	.53	3.8	5.4	4.9
April	28.76	29.14	28.16	49.5	63.5	69.1	46.9	58.0	86	30	40	40	70	46	.250	.258	3.56	1.85	4.6	5.3	5.4
May	28.76	29.18	28.25	56.6	69.4	74.8	53.7	64.2	97	38	46	45	69	45	.339	.326	1.11	.36	4.8	5.7	5.6
June	28.84	29.05	28.51	64.6	74.2	79.9	60.9	70.4	92	48	58	57	80	58	.492	.477	4.31	1.25	5.7	5.6	5.9
July	28.83	29.11	28.52	67.3	80.4	84.4	64.2	74.3	99	50	59	60	76	51	.515	.534	1.38	.58	5.2	4.0	5.1
August	28.79	29.11	28.53	67.1	77.9	84.2	64.6	74.4	96	56	62	62	83	60	.558	567	7.18	2.20	5.1	4.6	4.8
September	28.78	29.22	28.40	62.5	74.6	81.9	60.6	71.2	102	34	56	54	78	51	.478	.470	.90	.50	4.1	3.0	3.3
October	28.94	29.31	28.48	40.6	54.6	61.5	39.2	50.4	77	17	29	28	64	37	.171	.161	.07	.05	3.0	1.8	3.4
November	28.89	29.26	28.47	31.3	40.0	44.7	29.0	36.8	72	2	37	30	84	69	.156	.169	1.06	.52	5.9	5.7	6.3
December	28.83	29.27	28.33	24.2	31.9	36.9	22.0	29.4	58	2	18	21	75	63	.099	.115	.16	.14	4.6	3.8	6.4
Year	28.84	29.58	28.16	43.3	54.6	60.4	40.8	50.6	102	—20	36	37	75	55	.277	.283	21.69	2.20	4.9	4.4	5.3

OSWEGO, N. Y.

[λ = 43° 29′ N.; φ = 76° 35′ W.; gravity corr., 0.]

Month.	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.
January	29.60	30.15	28.85	20.3	23.4	27.9	15.3	21.6	43	— 5	17	18	85	80	.098	.103	2.64	0.70	8.6	6.9	7.9
February	29.57	30.05	28.84	16.8	21.0	24.0	13.4	18.7	48	—12	13	16	85	78	.084	.093	2.30	.70	9.0	7.6	8.2
March	29.63	30.14	29.07	23.0	27.2	31.4	19.5	25.4	49	5	16	21	74	77	.095	.116	1.66	.35	5.9	5.4	5.6
April	29.65	30.24	28.99	40.6	43.4	48.7	35.6	42.2	73	26	33	34	74	72	.193	.203	2.07	.41	5.3	4.5	5.1
May	29.64	29.97	29.18	55.6	58.4	65.2	48.9	57.0	88	34	46	48	71	70	.338	.363	3.25	1.06	4.9	4.6	4.1
June	29.68	30.04	29.35	66.0	67.8	75.4	57.7	66.5	88	44	58	57	77	70	.489	.478	1.20	.72	4.0	3.6	3.7
July	29.58	29.91	29.29	64.7	66.7	73.5	59.3	66.4	90	48	57	57	77	71	.471	.467	1.67	.57	4.8	5.1	4.5
August	29.56	29.88	29.29	65.6	67.3	74.5	60.2	67.4	88	46	58	57	78	72	.497	.480	3.38	.76	5.5	4.2	4.6
September	29.65	30.04	29.35	61.8	64.6	71.5	56.2	63.8	89	38	51	51	70	63	.399	.398	2.25	.86	5.0	4.0	5.0
October	29.63	30.15	29.16	42.9	46.0	51.6	37.9	44.8	71	27	33	35	68	67	.190	.212	2.39	.86	7.1	5.5	6.3
November	29.76	30.21	29.02	37.8	39.5	46.3	33.3	39.8	67	16	32	32	80	74	.190	.186	4.44	1.46	7.7	7.0	7.6
December	29.69	30.26	29.00	29.4	33.2	37.6	25.5	31.6	64	2	23	26	77	74	.134	.156	5.23	1.49	8.0	6.5	7.3
Year	29.64	30.26	28.84	43.7	46.5	52.3	38.6	45.4	90	—12	36	38	76	72	.265	.271	32.48	1.49	6.3	5.4	5.8

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

NORTH PLATTE, NEBR.

[H = 2,826 ft.; h_t = 43 ft.; h_r = 35 ft.; h_a = 52 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	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	NW.	32	NW.	0	6	2	1	10	4	12	11	15	1	8	14	9	3	1	3	0	0	18	0	31	0	0
February	10.4	NW.	46	NW.	2	5	3	0	5	2	8	16	16	1	6	14	8	4	3	2	0	0	14	0	23	0	0
March	11.0	W.	40	N.	1	9	4	5	6	3	5	15	13	2	14	12	5	2	1	2	0	0	5	0	27	0	0
April	13.4	SE.	53	NW.	3	3	1	5	17	3	7	7	15	2	10	14	6	6	6	2	0	0	0	0	7	3	0
May	12.5	SE.	42	W.	5	8	6	3	11	8	10	9	7	0	10	17	4	5	5	0	0	0	0	2	1	1	0
June	10.5	SE.	37	NW.	0	3	3	4	17	11	9	5	7	1	8	16	6	12	11	0	1	0	0	1	0	7	0
July	8.0	SE.	28	NW.	0	3	3	9	14	8	6	6	7	6	13	14	4	7	5	0	0	0	0	6	0	3	0
August	8.4	S.	34	NW.	0	6	7	4	8	15	7	5	7	3	15	15	1	7	6	0	1	0	0	8	0	7	0
September	9.3	S.	30	N.	0	5	3	4	12	12	8	8	8	0	17	12	1	2	2	1	0	0	0	12	2	1	0
October	8.5	W.	36	NW.	0	3	4	2	11	8	10	12	7	2	18	8	5	2	1	0	0	0	0	0	14	0	0
November	8.3	W.	43	NW.	1	4	3	2	3	6	6	18	14	4	10	14	6	5	4	5	0	0	4	0	28	0	0
December	9.5	W.	37	NW.	0	1	0	1	2	8	11	20	16	3	12	16	3	3	2	3	0	0	4	0	31	0	0
Year	9.9	W.	53	NW.	12	56	39	40	116	88	99	132	132	25	141	166	58	58	47	18	2	0	45	29	164	22	0

OKLAHOMA CITY, OKLA.

[H = 1,239 ft.; h_t = 54 ft.; h_r = 45 ft.; h_a = 53 ft.]

Month.	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.
January	9.1	N.	32	N.	0	17	7	1	10	11	8	1	7	0	15	8	8	3	3	2	0	0	6	0	21	0	0
February	10.0	N.	52	N.	2	14	6	1	12	8	6	0	9	0	7	7	14	3	0	1	0	0	13	0	21	0	0
March	12.1	N.	42	NW.	4	21	3	1	9	10	10	3	5	0	23	5	3	7	4	0	1	1	2	0	12	2	0
April	11.9	S.	40	W.	1	15	4	0	12	17	1	5	5	1	23	3	4	5	5	0	0	0	0	0	0	1	0
May	11.9	S.	48	N.	1	5	7	2	16	23	7	0	2	0	18	11	2	6	6	0	0	0	0	4	0	0	0
June	9.1	SE.	30	SE.	0	12	2	1	20	14	5	0	6	0	21	6	3	11	10	0	0	0	0	7	0	5	0
July	7.7	S.	48	NE.	1	10	11	1	6	23	7	0	3	1	14	13	4	10	9	0	0	0	0	15	0	0	0
August	6.8	S.	50	SE.	1	4	2	2	20	21	7	1	4	1	20	10	1	12	8	0	0	0	0	18	0	5	0
September	9.4	S.	52	N.	1	7	5	2	11	27	6	1	1	0	24	3	3	5	3	0	1	0	0	17	0	1	0
October	6.8	S.	32	N.	0	11	9	5	8	13	9	1	4	2	20	5	6	9	9	0	0	0	0	0	0	0	0
November	10.3	S.	42	N.	1	14	1	0	6	20	7	0	8	4	16	6	8	9	9	1	0	0	3	0	10	1	0
December	9.7	N.	32	N.	0	22	0	0	3	12	8	6	11	0	20	4	7	6	6	2	0	0	1	0	20	1	0
Year	9.6	S.	52	N.	12	152	57	16	133	199	81	18	65	9	221	81	63	86	72	6	2	1	25	61	84	16	0

OMAHA, NEBR.

[H = 1,123 ft.; h_t = 92 ft.; h_r = 86 ft.; h_a = 97 ft.]

Month.	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.
January	8.1	NW.	30	NW.	0	13	1	1	12	6	4	1	23	1	15	3	13	3	2	3	0	3	20	0	29	0	0
February	8.3	NW.	32	NW.	0	8	0	3	5	6	4	7	23	0	4	10	14	9	4	7	0	0	15	0	23	0	0
March	9.2	N.	36	N.	0	15	4	6	10	6	5	6	10	0	13	8	10	6	5	5	0	1	7	0	20	1	0
April	9.4	SE.	38	N.	0	13	5	7	15	7	4	2	7	0	13	2	15	9	8	1	2	0	0	0	2	3	0
May	10.0	SE.	36	S.	0	8	3	2	22	8	5	4	10	0	10	7	14	10	6	0	1	0	0	0	0	7	0
June	7.7	SE.	27	SE.	0	8	4	3	23	4	3	3	11	1	8	10	12	13	11	0	1	0	0	2	0	9	0
July	6.9	SE.	28	SE.	0	10	4	1	28	8	6	1	4	0	11	13	7	8	5	0	0	0	0	9	0	8	0
August	7.2	SE.	30	NE.	0	12	7	2	20	10	4	0	6	1	13	10	8	13	11	0	0	0	0	7	0	10	0
September	9.5	SE.	36	S.	0	8	0	5	28	6	3	2	7	1	19	5	6	5	3	0	0	0	0	11	0	4	0
October	7.5	NW.	26	NW.	0	9	4	1	8	8	10	3	17	2	18	7	6	2	1	0	0	1	0	0	7	0	0
November	9.0	N.	36	NW.	0	17	4	0	16	8	3	4	7	1	7	8	15	5	4	3	0	0	7	0	19	0	0
December	8.1	NW.	28	SE.	0	12	0	0	7	9	4	13	16	1	9	6	16	3	1	2	0	1	9	0	25	1	0
Year	8.5	SE.	38	N.	0	133	36	31	194	86	55	46	141	8	140	89	136	86	61	21	4	6	58	29	125	43	0

OSWEGO, N. Y.

[H = 335 ft.; h_t = 76 ft.; h_r = 83 ft.; h_a = 87 ft.]

Month.	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.
January	14.4	SW.	40	SW.	2	1	1	3	13	15	18	3	7	1	4	8	19	19	14	15	0	0	22	0	30	0	0
February	15.0	NW.	42	NW.	1	1	0	1	4	9	13	7	21	0	2	7	19	17	11	15	0	0	21	0	27	0	0
March	12.4	NW.	38	NW.	0	12	3	0	10	7	6	9	14	1	8	11	12	16	13	13	0	1	17	0	28	0	0
April	10.1	W.	30	SE.	0	11	7	2	10	5	3	12	8	2	12	7	11	13	11	0	0	1	1	0	8	0	0
May	9.3	W.	30	S.	0	2	3	1	8	17	4	21	2	4	14	11	6	9	9	0	0	0	0	0	0	3	0
June	6.7	W.	30	S.	0	1	4	0	13	16	5	17	4	0	16	8	6	7	3	0	0	1	0	0	0	4	0
July	8.5	W.	32	W.	0	6	1	0	11	10	4	25	5	0	14	11	6	9	6	0	0	0	0	0	0	1	0
August	8.2	W.	32	SW.	0	1	2	0	11	17	6	21	3	1	14	4	13	13	11	0	0	0	0	0	0	5	0
September	9.5	S.	38	S.	0	7	4	3	11	14	9	3	7	2	12	9	9	8	8	0	1	0	0	0	0	3	1
October	12.5	S.	34	SW.	0	5	3	0	11	16	7	12	7	1	9	5	17	12	11	4	0	0	0	0	8	0	1
November	11.5	S.	39	S.	0	4	2	3	12	21	2	7	8	1	4	5	21	13	11	3	0	1	3	0	12	0	0
December	13.2	S.	50	W.	2	3	4	2	17	18	10	1	7	0	4	8	19	15	13	6	0	0	13	0	20	0	0
Year	10.9	S.	50	W.	5	54	34	15	131	165	87	138	93	13	113	94	158	151	121	56	1	4	77	0	133	16	2

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

PALESTINE, TEX.

[λ=31° 45′ N.; φ=95° 40′ W.; gravity corr., —0.03.]

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	29.53	29.95	29.10	41.6	49.2	54.9	37.0	46.0	78	18	36	37	81	66	.247	.248	2.42	1.54	6.6	5.3	6.7
February	29.69	30.08	29.26	34.8	43.5	48.1	32.0	40.0	76	— 1	31	33	86	68	.203	.209	2.50	1.38	6.5	6.9	7.1
March	29.52	29.92	29.17	50.0	63.2	69.1	47.5	58.3	85	27	45	44	83	54	.330	.322	2.52	.74	6.4	5.6	6.2
April	29.45	29.79	29.13	56.7	72.2	78.0	53.9	66.0	87	37	51	51	82	49	.392	.389	2.35	.78	4.1	4.1	4.3
May	29.46	29.82	29.26	64.2	72.5	79.0	59.9	69.4	88	50	60	62	89	72	.546	.575	11.38	3.46	6.4	5.8	6.1
June	29.50	29.66	29.37	72.3	79.2	87.0	69.3	78.2	92	62	70	71	92	76	.740	.754	5.29	1.18	6.5	5.2	5.5
July	29.50	29.61	29.26	75.0	83.6	90.4	72.5	81.4	96	68	73	73	93	72	.815	.818	3.85	1.31	7.4	4.9	4.9
August	29.46	29.64	29.34	73.9	84.0	93.0	71.6	82.3	98	65	71	71	90	66	.760	.752	.06	.02	6.1	4.9	5.4
September	29.51	29.73	29.28	71.5	83.6	91.3	69.7	80.5	100	48	68	66	87	57	.696	.648	1.05	.51	4.6	3.8	4.6
October	29.58	29.79	29.26	54.0	68.3	76.4	53.1	64.8	87	43	47	50	79	55	.337	.381	3.73	2.09	4.8	4.1	5.1
November	29.60	29.87	29.25	46.9	56.9	63.7	45.7	54.7	79	29	43	46	87	69	.298	.332	4.23	1.13	5.1	5.2	6.2
December	29.57	29.91	29.07	43.2	52.7	59.9	40.5	50.2	73	24	38	38	83	58	.209	.258	4.34	2.43	4.1	3.4	5.0
Year	29.53	30.08	29.07	57.0	67.4	74.2	54.4	64.3	100	— 1	53	54	86	64	.469	.474	43.72	3.46	5.7	4.9	5.6

PARKERSBURG, W. VA.

[λ=39° 16′ N.; φ=81° 36′ W.; gravity corr., —0.01]

Month.	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.
January	29.38	29.80	28.80	26.0	30.6	36.6	20.6	28.6	59	— 6	23	27	88	86	.137	.159	5.50	1.67	7.5	5.6	6.8
February	29.46	29.85	28.99	18.4	26.2	30.2	14.8	22.5	66	— 8	15	22	87	85	.100	.133	.99	.50	6.0	4.3	5.4
March	29.37	29.72	28.87	35.8	42.2	48.7	30.7	39.7	80	15	30	37	80	84	.168	.241	2.92	.75	5.4	5.9	6.3
April	29.34	29.82	28.92	50.1	59.5	65.5	44.1	54.8	85	28	42	48	74	67	.278	.349	1.32	.36	5.3	6.1	6.0
May	29.41	29.66	29.04	59.6	67.1	75.2	50.3	62.8	94	32	49	51	68	58	.374	.400	2.22	.55	4.3	5.7	5.6
June	29.40	29.72	29.17	72.0	79.0	86.9	61.4	74.2	99	47	60	59	66	53	.522	.516	4.51	2.56	3.0	4.7	4.5
July	29.36	29.63	29.08	69.0	76.2	84.2	62.2	73.2	98	49	60	60	74	59	.527	.534	2.21	1.18	4.9	4.5	5.4
August	29.32	29.53	29.12	70.9	78.8	87.7	64.7	76.2	96	49	62	62	75	59	.570	.570	1.88	1.00	4.7	4.9	5.9
September	29.41	29.62	29.15	66.7	74.6	83.3	62.2	72.8	96	42	58	57	74	56	.502	.497	1.76	.98	3.4	2.8	3.5
October	29.43	29.87	29.06	41.3	53.1	61.4	37.8	49.6	75	20	32	33	70	49	.185	.200	1.36	.69	3.1	3.5	3.7
November	29.49	29.88	28.95	38.1	46.1	55.9	35.4	45.6	78	24	34	38	84	75	.201	.246	2.26	.90	5.5	6.5	6.4
December	29.42	29.79	28.81	34.2	38.5	44.4	30.5	37.4	68	15	28	31	80	76	.166	.187	3.44	1.30	7.4	5.9	7.3
Year	29.40	29.88	28.80	48.5	56.0	63.3	42.9	53.1	99	— 8	41	44	77	67	.311	.336	30.37	2.56	5.0	5.0	5.6

PENSACOLA, FLA.

[λ=30° 25′ N.; φ=87° 13′ W.; gravity corr., —0.04.]

Month.	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.
January	30.05	30.38	29.58	46.8	52.6	58.3	42.7	50.5	72	22	42	45	83	77	.288	.327	3.12	1.02	5.6	5.5	6.0
February	30.14	30.49	29.74	40.8	45.8	52.3	37.0	44.6	72	11	34	38	78	73	.212	.247	2.48	1.15	5.5	4.8	5.1
March	30.05	30.32	29.58	55.7	60.2	66.5	51.9	59.2	79	33	50	52	84	77	.398	.417	6.69	3.72	3.6	4.6	5.3
April	29.97	30.34	29.61	63.1	66.8	72.7	58.6	65.6	81	42	59	59	86	77	.512	.516	7.16	3.40	3.4	3.5	4.1
May	29.99	30.16	29.80	72.0	73.5	79.3	66.7	73.0	86	54	66	67	83	82	.660	.678	6.28	1.54	5.6	5.5	5.4
June	30.01	30.12	29.90	78.5	79.5	84.9	72.7	78.8	91	67	73	72	84	79	.807	.878	7.08	3.28	5.7	6.3	5.8
July	30.01	30.13	29.82	79.9	81.1	87.3	74.6	81.0	93	69	74	73	83	78	.846	.824	5.33	1.35	4.9	6.3	5.1
August	29.95	30.13	29.80	79.7	80.8	86.9	74.7	80.8	93	71	74	74	83	80	.836	.832	7.48	2.75	5.3	6.6	5.3
September	29.98	30.14	29.81	77.9	80.6	87.9	73.3	80.6	93	57	70	71	79	74	.760	.776	1.41	.45	3.6	4.3	4.1
October	30.01	30.22	29.76	62.7	70.0	77.0	59.2	68.1	85	50	50	54	66	59	.392	.437	2.67	1.26	3.1	3.1	2.8
November	30.11	30.38	29.77	53.8	60.8	66.5	50.9	58.7	76	33	46	51	76	71	.343	.401	1.27	1.15	4.9	4.1	4.8
December	30.11	30.40	29.69	46.1	52.7	59.5	42.5	51.0	71	28	40	43	77	71	.268	.306	4.33	1.31	3.6	3.6	3.9
Year	30.03	30.49	29.58	63.1	67.0	73.3	58.7	66.0	93	11	56	58	80	75	.527	.546	55.30	3.72	4.6	4.8	4.8

PHILADELPHIA, PA.

[λ=39° 57′ N.; φ=75° 09′ W.; gravity corr., —0.01.]

Month.	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.
January	29.95	30.35	29.17	28.9	31.0	37.2	24.0	30.6	55	10	24	23	79	72	.136	.133	4.52	1.20	6.8	4.7	6.2
February	29.88	30.43	29.17	21.6	27.4	32.3	18.6	25.4	53	— 3	15	16	74	62	.089	.097	1.39	.73	5.5	3.6	4.7
March	29.89	30.40	29.39	35.2	40.9	45.7	30.5	38.1	64	18	25	27	68	58	.140	.153	2.61	.73	5.2	4.6	5.4
April	29.92	30.54	29.24	48.0	51.8	60.2	43.1	51.6	84	32	38	39	71	65	.246	.258	6.14	2.77	5.3	5.1	5.9
May	29.96	30.24	29.52	59.0	63.3	71.5	53.3	62.4	94	40	50	51	74	65	.388	.401	1.72	.56	6.2	5.2	5.6
June	29.96	30.35	29.68	70.0	73.6	83.4	64.8	74.1	97	54	61	62	75	69	.549	.575	3.15	.94	5.2	6.5	5.5
July	29.86	30.13	29.63	69.8	74.3	81.8	64.7	73.2	94	57	59	59	70	61	.517	.517	3.23	1.53	4.7	5.5	5.1
August	29.85	30.17	29.62	73.0	77.4	86.8	68.1	77.4	98	56	62	62	70	62	.577	.581	.59	.29	4.4	4.7	4.3
September	29.95	30.26	29.61	67.3	71.7	81.6	63.1	72.4	97	45	58	56	73	61	.511	.493	.61	.35	5.3	3.2	4.2
October	29.94	30.46	29.43	48.5	53.8	61.3	44.0	52.6	74	34	37	38	66	56	.222	.242	2.97	1.32	3.5	2.4	3.1
November	30.07	30.55	29.32	43.6	47.2	53.8	39.8	46.8	74	26	38	39	81	74	.252	.258	2.32	1.09	5.9	3.9	5.7
December	30.03	30.65	29.45	35.6	39.9	46.0	32.3	39.2	66	13	27	31	71	69	.164	.190	1.76	.68	5.9	5.3	5.9
Year	29.94	30.65	29.17	50.0	54.4	61.8	45.5	53.6	98	— 3	41	42	73	64	.317	.325	31.01	2.77	5.3	4.6	5.1

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

PALESTINE, TEX.

[H = 510 ft.; h_t = 54 ft.; h_r = 54 ft.; h_a = 61 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	7.2	S.	27	NW.	0	4	3	2	9	16	4	7	15	2	5	13	13	10	7	2	0	5	0	0	12	0	0
February	7.8	S.	30	NW.	0	4	10	1	10	14	2	1	13	1	5	7	16	8	8	2	0	2	7	0	15	0	0
March	8.6	S.	28	SW.	0	4	4	1	6	22	10	0	15	0	7	13	11	11	9	0	0	2	0	0	5	4	0
April	7.8	S.	29	S.	0	2	5	1	7	20	6	8	8	3	13	13	4	7	5	0	0	0	0	0	0	1	0
May	6.8	S.	32	S.	0	4	4	12	10	18	4	2	2	6	7	10	14	15	11	0	1	3	0	0	0	5	0
June	5.6	S.	32	N.	0	6	7	4	14	17	11	0	0	1	9	11	10	11	9	0	0	2	0	4	0	3	0
July	5.9	S.	27	N.	0	2	2	5	13	26	11	1	1	1	9	19	3	7	6	0	0	0	0	17	0	7	0
August	4.9	S.	20	SE.	0	1	14	2	10	16	10	0	1	8	6	21	4	3	0	0	0	1	0	27	0	2	0
September	6.0	SE.	27	SE.	0	2	13	1	20	19	0	1	1	3	10	16	4	5	4	0	0	0	0	22	0	2	0
October	5.4	NE.	29	NW.	0	10	26	6	4	2	4	0	5	5	11	12	8	5	3	0	0	0	0	0	0	1	0
November	6.4	N.	26	N.	0	16	3	2	15	8	5	3	5	3	9	5	16	7	7	0	0	3	0	0	3	2	0
December	8.7	S.	29	W.	0	3	1	1	3	20	10	9	13	2	11	11	9	7	6	0	0	1	0	0	9	2	0
Year	6.8	S.	32	S. N.	0	58	92	38	121	198	77	32	79	35	102	151	112	96	75	4	1	19	7	70	44	29	0

PARKERSBURG, W. VA.

[H = 638 ft.; h_t = 77 ft.; h_r = 69 ft.; h_a = 84 ft.]

Month.	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.
January	7.0	W.	27	W.	0	5	2	7	9	11	9	15	4	0	6	8	17	20	17	14	0	0	12	0	27	0	0
February	6.4	SW.	24	SW.	0	6	0	5	7	10	14	10	2	2	7	12	9	9	5	7	0	0	13	0	26	0	0
March	7.3	SE.	41	W.	1	9	5	6	12	6	7	10	5	2	6	14	11	18	13	7	1	1	3	0	20	2	0
April	6.2	E.	28	W.	0	8	9	11	6	5	7	4	6	4	8	11	11	9	7	0	0	0	0	0	2	1	0
May	5.1	E.	35	SW.	0	4	3	18	13	5	4	7	3	5	11	6	14	12	9	1	0	0	0	5	0	2	0
June	4.1	E.	34	SW.	0	12	9	14	5	5	8	1	0	6	12	11	7	7	5	0	0	0	0	9	0	4	0
July	3.8	E.	26	SW.	0	8	3	15	5	12	8	1	3	7	11	11	9	11	8	0	0	1	0	4	0	4	0
August	4.5	S.	38	W.	0	5	3	7	11	14	11	3	1	7	7	14	10	11	7	0	0	1	0	12	0	3	0
September	4.9	SE.	25	SW.	0	9	5	1	13	9	7	7	1	8	16	11	3	4	3	0	0	0	0	9	0	2	1
October	5.4	W.	30	W.	0	6	1	5	11	10	4	14	4	7	16	9	6	5	4	0	0	0	0	0	7	0	0
November	5.0	Calm. SE.	36	SW.	0	6	4	8	10	6	3	8	2	13	7	11	12	13	10	1	0	1	0	0	11	0	0
December	5.7	SE.	35	NW.	0	7	2	7	18	9	6	6	2	5	5	6	20	13	9	10	0	0	7	0	21	0	0
Year	5.4	SE.	41	W.	1	85	46	104	120	102	88	86	33	66	112	124	129	132	97	40	1	4	35	39	114	18	1

PENSACOLA, FLA.

[H = 56 ft.; h_t = 78 ft.; h_r = 79 ft.; h_a = 90 ft.]

Month.	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.
January	9.7	NE.	36	SW.	0	8	14	3	9	5	6	4	12	1	9	6	16	10	8	0	0	2	0	0	5	1	0
February	9.5	N.	49	NE.	3	14	11	2	5	2	5	3	9	5	13	6	9	9	6	2	1	1	1	0	8	1	0
March	10.4	SW.	38	NW.	0	5	6	3	13	3	19	5	4	4	14	4	13	11	10	0	0	6	0	0	0	4	0
April	10.0	SW.	36	SW.	0	3	10	2	8	6	16	6	7	2	15	9	6	9	8	0	0	0	0	0	0	5	0
May	9.0	SW.	48	SW.	1	2	11	6	12	9	15	2	5	0	9	15	7	10	10	0	0	0	0	0	0	7	0
June	8.8	SW.	36	SW.	0	6	5	1	7	2	23	8	6	2	5	14	11	14	8	0	0	0	0	3	0	5	0
July	8.3	SW.	40	NW.	1	2	1	0	6	5	19	13	12	4	11	12	8	13	11	0	0	0	0	6	0	7	0
August	7.9	SW.	48	S.	1	1	9	2	5	6	14	13	10	2	11	10	10	15	12	0	0	0	0	2	0	6	0
September	7.4	NE.	28	N.	0	12	16	3	9	6	6	1	5	2	14	14	2	10	8	0	0	0	0	4	0	5	0
October	9.8	N.	28	NE.	0	20	18	4	2	0	8	5	5	0	21	5	5	4	4	0	0	0	0	0	0	0	0
November	9.3	NE.	32	NW.	0	12	20	4	6	4	4	4	6	0	12	8	10	5	3	0	0	0	0	0	0	0	0
December	10.7	NW.	40	SE.	1	10	9	6	11	2	5	3	14	2	17	9	5	6	5	0	0	0	0	0	4	0	0
Year	9.2	SW.	49	NE.	7	95	130	36	93	50	140	67	95	24	151	112	102	116	93	2	1	9	1	15	17	41	0

PHILADELPHIA, PA.

[H = 117 ft.; h_t = 168 ft.; h_r = 166 ft.; h_a = 184 ft.]

Month.	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.
January	11.0	NW.	32	NW.	0	10	5	6	1	4	14	7	15	0	8	11	12	13	11	6	0	3	9	0	25	0	0
February	12.5	NW.	38	W.	0	8	3	0	0	1	9	16	19	0	10	11	7	6	5	5	0	0	13	0	27	0	0
March	12.1	NW.	43	NW.	1	12	9	4	2	6	8	11	10	0	13	7	11	12	11	5	0	0	0	0	19	0	0
April	11.6	NE.	39	SE.	0	7	12	9	11	4	4	4	9	0	11	3	16	11	11	0	0	0	0	0	1	1	0
May	9.6	NW.	36	E.	0	2	10	5	4	13	13	7	8	0	8	17	6	9	6	0	0	0	0	3	0	1	0
June	8.4	NE.	28	N.	0	7	9	11	9	8	8	1	7	0	10	10	10	12	9	0	0	0	0	5	0	9	0
July	9.0	NW.	28	SW.	0	10	3	5	4	7	10	10	13	0	11	10	10	11	10	0	0	0	0	2	0	6	0
August	8.9	SW.	28	SW.	0	7	3	4	4	10	14	10	10	0	12	17	2	6	3	0	0	0	0	7	0	4	0
September	9.4	SW.	33	SW.	0	12	9	3	3	7	11	6	9	0	14	12	4	7	4	0	0	0	0	5	0	2	0
October	10.8	NW.	35	NW.	0	15	6	1	2	6	9	8	15	0	21	5	5	4	4	0	0	0	0	0	0	0	0
November	10.0	NW.	30	N.	0	9	12	5	2	11	5	5	11	0	11	6	13	12	10	0	0	4	0	0	3	1	0
December	11.4	NE.	50	SW.	3	14	6	4	6	9	7	11	5	0	10	7	14	7	7	2	0	0	3	0	14	0	0
Year	10.4	NW.	50	SW.	4	113	87	57	48	86	112	96	131	0	139	116	110	110	91	18	0	7	25	22	89	24	0

a By eye observations at 8 a. m and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

PHŒNIX, ARIZ.

[λ=33° 28′ N.; φ=112° 00′ W.; gravity corr., 0.03.]

Month.	Pressure.			Temperature.							Moisture.										
		Extremes.		Mean.					Extremes.		Dew-point.		Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	%	%	In.	In.	In.	In.			
January	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
February	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
March	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
April	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
August (a)	28.64	28.78	28.48	77.3	98.4	101.4	75.7	88.6	110	65	62	57	61	27	.569	.470	0.27	0.13	4.3	5.0	4.6
September	28.68	28.91	28.46	70.2	92.9	97.0	67.7	82.4	107	47	52	54	54	29	.406	.435	.10	.10	2.7	2.1	2.3
October	28.76	29.03	28.43	61.0	79.9	85.9	57.9	71.9	93	48	49	52	67	39	.357	.392	.80	.70	1.5	2.8	2.9
November	28.85	29.15	28.49	48.2	62.7	69.5	44.6	57.0	83	34	42	45	81	54	.272	.299	.89	.34	2.6	2.6	3.0
December	28.95	29.28	28.61	38.6	56.3	62.9	34.8	48.8	78	23	31	31	76	40	.183	.190	.09	.07	1.2	1.7	2.3
Year	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

a For twenty-six days.

PIERRE, S. DAK.

[λ=44° 24′ N.; φ=100° 17′ W.; gravity corr., 0.]

January	28.45	29.09	27.84	3.6	12.0	17.0	0.4	8.7	39	—16	0	6	84	77	.045	.062	0.71	0.32	4.0	3.2	5.3
February	28.60	29.27	27.92	11.4	21.5	26.8	8.0	17.4	70	—27	5	12	73	63	.075	.094	.53	.26	5.9	5.6	5.9
March	28.42	28.88	27.78	23.6	41.3	46.9	21.3	34.1	84	— 8	16	24	73	56	.101	.137	1.85	1.38	4.1	5.6	5.8
April	28.36	28.80	27.80	44.4	63.4	68.8	41.1	54.9	84	26	37	41	76	48	.227	.265	2.87	.82	4.4	5.1	5.1
May	28.33	28.80	27.67	51.0	67.2	71.4	47.9	59.6	98	30	44	43	78	45	.297	.290	1.20	.64	4.6	4.0	5.3
June	28.42	28.74	28.11	58.2	72.5	77.2	54.5	65.8	91	44	52	55	82	56	.394	.433	6.09	3.32	4.5	4.9	5.6
July	28.39	28.68	27.97	64.1	82.3	86.6	60.5	73.4	99	50	56	52	76	39	.456	.418	.90	.40	3.0	3.7	4.1
August	28.36	28.78	27.97	62.5	81.9	87.1	59.5	73.3	106	46	54	54	75	40	.420	.419	1.88	1.52	3.0	3.3	4.8
September	28.32	28.88	27.69	53.7	74.0	80.0	51.3	65.6	101	30	45	47	75	42	.322	.336	.36	.24	3.8	4.3	4.6
October	28.50	28.90	28.03	36.6	53.8	62.6	34.1	48.4	87	4	27	35	69	50	.160	.218	T.	T.	3.1	2.5	4.0
November	28.46	28.92	28.00	24.0	33.3	40.7	20.9	30.8	72	2	18	23	76	68	.099	.127	.45	.30	6.0	5.1	6.3
December	28.37	28.98	27.78	19.0	30.1	38.5	14.5	26.5	60	— 5	13	19	76	62	.081	.103	.01	.01	4.3	3.3	4.5
Year	28.42	29.27	27.67	37.7	52.8	58.6	34.5	46.5	106	—27	31	34	76	54	.223	.242	16.85	3.32	4.2	4.2	5.1

PITTSBURG, PA.

[λ=40° 32′ N.; φ=80° 02′ W.; gravity corr., —0.01.]

January	29.12	29.56	28.42	25.7	28.8	34.6	19.5	27.0	58	— 5	23	25	89	86	.135	.146	4.16	1.18	6.9	6.1	6.8
February	29.17	29.57	28.62	19.1	24.6	29.8	15.7	22.8	60	— 6	15	17	82	71	.094	.106	.77	.30	5.2	4.8	5.4
March	29.12	29.51	28.59	32.3	38.6	45.2	27.6	36.4	63	16	28	34	84	83	.161	.206	1.73	.34	5.2	5.3	6.2
April	29.12	29.65	28.62	48.1	56.5	62.6	44.7	53.6	82	28	42	47	79	74	.274	.347	1.83	.66	5.7	5.7	6.1
May	29.18	29.42	28.76	58.8	66.2	73.6	53.0	63.3	93	35	49	49	71	56	.371	.376	1.97	.56	3.7	5.2	5.4
June	29.19	29.54	28.94	70.4	77.0	84.3	65.1	74.7	98	50	59	58	68	53	.506	.486	2.26	.84	2.8	4.6	4.9
July	29.13	29.42	28.84	67.0	75.0	80.9	62.4	71.5	96	50	58	56	72	54	.483	.468	2.11	.54	4.1	4.9	5.1
August	29.10	29.34	28.86	69.4	76.9	85.3	63.7	74.5	95	52	61	60	75	58	.543	.539	4.29	1.47	4.3	4.1	4.5
September	29.13	29.43	28.87	66.0	72.9	80.3	61.8	71.0	94	42	56	56	72	56	.475	.480	1.83	1.12	3.5	2.7	5.3
October	29.18	29.64	28.80	44.3	52.4	59.2	40.5	49.8	73	27	35	37	71	57	.210	.235	1.11	.57	2.9	3.0	4.1
November	29.26	29.68	28.70	40.6	46.3	54.2	36.7	45.4	74	22	36	39	85	77	.226	.261	2.24	.68	4.7	5.0	6.2
December	29.18	29.60	28.46	35.1	38.6	44.2	30.6	37.4	67	13	30	32	84	78	.185	.198	3.20	1.04	6.9	5.0	6.5
Year	29.16	29.68	28.42	48.1	54.5	61.2	43.4	52.3	98	— 6	41	42	78	67	.305	.321	27.50	1.47	4.7	4.7	5.5

POINT REYES LIGHT, CAL.

[λ=38° 11′ N.; φ=122° 51′ W.; gravity corr., —.]

January	.....	.....	.....	.....	.....	54.2	41.2	47.7	60	34	.....	.....	.....	.....	.....	.....	9.43	1.75	.....	.....	.....
February	.....	.....	.....	.....	.....	57.0	43.7	50.4	72	36	.....	.....	.....	.....	.....	.....	1.34	.70	.....	.....	.....
March	.....	.....	.....	.....	.....	56.2	41.8	49.0	72	34	.....	.....	.....	.....	.....	.....	2.63	.81	.....	.....	.....
April	.....	.....	.....	.....	.....	58.7	43.6	51.2	66	36	.....	.....	.....	.....	.....	.....	1.02	.34	.....	.....	.....
May	.....	.....	.....	.....	.....	59.6	45.2	52.4	82	39	.....	.....	.....	.....	.....	.....	1.29	.86	.....	.....	.....
June	.....	.....	.....	.....	.....	61.7	45.2	53.4	80	40	.....	.....	.....	.....	.....	.....	.02	.02	.....	.....	.....
July	.....	.....	.....	.....	.....	61.8	47.5	54.6	76	44	.....	.....	.....	.....	.....	.....	.40	.39	.....	.....	.....
August	.....	.....	.....	.....	.....	62.5	47.3	54.9	72	45	.....	.....	.....	.....	.....	.....	T.	T.	.....	.....	.....
September	.....	.....	.....	.....	.....	63.2	48.0	55.6	81	45	.....	.....	.....	.....	.....	.....	1.72	1.36	.....	.....	.....
October	.....	.....	.....	.....	.....	61.4	47.4	54.4	79	43	.....	.....	.....	.....	.....	.....	.42	.39	.....	.....	.....
November	.....	.....	.....	.....	.....	59.0	47.2	53.1	78	40	.....	.....	.....	.....	.....	.....	2.52	1.46	.....	.....	.....
December	.....	.....	.....	.....	.....	52.5	43.4	48.0	63	39	.....	.....	.....	.....	.....	.....	2.27	.70	.....	.....	.....
Year	.....	.....	.....	.....	.....	59.0	45.1	52.1	82	34	.....	.....	.....	.....	.....	.....	23.06	1.75	.....	.....	.....

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

PHŒNIX, ARIZ.

[H = 1,106 ft.; h_t = 47 ft.; h_r = 39 ft.; h_a = 57 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	.....	.....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
February	.....	.....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
March	.....	.....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
April	.....	.....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
May	.....	.....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
June	.....	.....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
July	.....	.....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
August	4.3	E.	30	N.	0	4	2	12	5	3	6	8	6	6	6	18	2	4	4	0	0	0	0	25	0	3	0
September	4.1	E.	25	SE.	0	3	0	16	6	5	6	7	11	6	24	5	1	1	1	0	0	0	0	24	0	0	0
October	4.3	S.	26	SE.	0	0	0	1	9	26	4	14	4	4	22	6	3	4	2	0	0	0	0	9	0	1	0
November	4.6	SE.	24	SE.	0	2	0	2	22	15	11	5	1	2	21	4	5	6	5	0	0	0	0	0	0	1	0
December	4.0	S.	30	N.	0	2	0	1	19	20	8	8	1	3	24	5	2	2	1	0	0	0	0	0	11	0	0
Year	.....	.....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

PIERRE, S. DAK.

[H = 1,470 ft.; h_t = 50 ft.; h_r = 47 ft.; h_a = 61 ft.]

January	8.3	NW.	34	NW.	0	7	4	9	10	1	7	6	16	2	9	15	7	10	5	10	0	0	26	0	31	0	0
February	9.5	NW.	42	NW.	3	6	4	6	9	3	3	8	16	1	6	12	10	9	4	8	0	0	15	0	24	0	0
March	10.8	W.	40	NW.	1	10	6	5	8	3	4	13	12	1	10	10	11	8	5	8	1	0	6	0	24	1	0
April	12.8	E.	50	NE.	7	11	6	14	10	2	3	4	8	2	10	14	6	10	7	1	1	0	0	0	4	3	0
May	12.4	NW.	48	NW.	4	11	5	7	10	3	4	4	14	4	13	9	9	7	5	0	0	0	0	1	2	2	0
June	9.6	NW.	42	SE.	1	7	7	9	11	4	1	5	14	2	7	18	5	17	15	0	1	0	0	3	0	7	0
July	10.8	E.	48	E.	2	5	6	17	16	5	4	4	6	0	14	15	2	7	7	0	0	0	0	9	0	5	0
August	8.7	N.	44	E.	1	14	2	13	11	4	3	6	2	7	13	13	5	6	4	0	1	0	0	14	0	4	0
September	9.9	NW.	52	W.	1	13	2	7	10	2	2	5	13	6	13	13	4	3	2	0	0	0	0	8	2	2	0
October	8.1	SE.	42	NW.	1	10	4	8	12	4	0	7	10	7	16	11	4	0	0	0	0	0	1	0	11	1	0
November	7.0	N.	48	N.	1	15	2	6	7	5	7	7	7	4	8	9	13	5	3	3	0	0	11	0	27	1	0
December	8.8	NW.	40	NW.	1	3	3	5	10	2	5	5	19	10	14	11	6	1	0	1	0	0	8	0	30	0	0
Year	9.7	NW.	52	W.	23	112	50	106	124	38	43	74	137	46	133	150	82	83	57	31	4	0	67	35	155	26	0

PITTSBURG, PA.

[H = 842 ft.; h_t = 116 ft.; h_r = 101 ft.; h_a = 123 ft.]

January	8.3	W.	28	W.	0	4	2	5	9	8	11	18	5	0	7	9	15	21	12	14	0	1	13	0	21	0	0
February	8.3	W.	31	NW.	0	7	2	3	2	1	10	21	10	0	10	7	11	10	6	8	0	3	14	0	26	0	0
March	7.8	NW.	35	NW.	0	8	5	6	10	6	8	13	6	0	7	14	10	15	11	8	0	2	3	0	22	2	0
April	7.0	N.	31	SE.	0	18	1	6	12	6	3	11	3	0	7	11	12	10	8	1	0	3	0	0	2	1	0
May	6.1	S.	27	S.	0	7	3	2	11	12	6	14	4	3	8	13	10	10	7	0	0	0	0	2	0	4	0
June	5.3	NE.	22	NW.	0	8	12	4	12	3	7	5	6	3	11	10	9	8	6	0	0	1	0	5	0	8	0
July	5.4	N.	22	W.	0	18	8	1	5	8	9	8	5	0	7	17	7	13	9	0	0	1	0	3	0	4	0
August	5.1	NW.	31	NE.	0	11	9	1	2	6	10	15	8	0	12	13	6	11	10	0	1	4	0	6	0	9	0
September	6.0	NW.	24	SW.	0	10	7	2	8	7	5	17	4	0	9	15	6	9	7	0	0	0	0	8	0	2	0
October	6.7	NW.	28	W.	0	5	3	2	6	5	10	11	20	0	16	9	6	8	5	0	0	4	0	0	4	0	0
November	6.4	SE.	30	W.	0	7	3	6	12	5	12	7	8	0	7	11	12	14	11	2	0	7	1	0	8	0	0
December	7.2	SE.	31	SW.	0	4	5	4	19	4	17	4	5	0	6	12	13	13	6	9	0	3	9	0	18	0	0
Year	6.6	NW.	35	NW.	0	107	60	42	108	71	108	144	84	6	107	141	117	142	98	42	1	29	40	24	101	30	0

POINT REYES LIGHT, CAL.

[H = — ft.; h_t = 12 ft.; h_r = 1 ft.; h_a = 16 ft.]

January	13.7	S.	42	NW.	5	6	9	2	6	7	4	1	5	0	7	5	12	16	13	0	0	0	0	0	0	0	0
February	15.4	NW.	51	NW.	5	8	0	1	3	5	2	0	9	0	4	4	20	8	7	0	0	0	0	0	0	0	0
March	14.7	NW.	57	NW.	6	7	0	1	3	4	2	2	12	0	5	1	25	9	9	0	0	1	0	0	0	0	0
April	16.5	NW.	55	NW.	8	10	0	0	4	4	2	0	10	0	9	5	16	6	6	0	0	2	0	0	0	0	0
May	25.6	NW.	120	NW.	16	4	0	0	2	2	4	0	19	0	13	5	13	9	7	0	0	2	0	0	0	0	0
June	16.8	NW.	71	NW.	5	5	0	0	5	2	5	0	13	0	9	4	17	1	0	0	0	6	0	0	0	0	0
July	17.3	NW.	56	NW.	9	1	0	0	7	3	2	0	18	0	5	7	19	3	1	0	0	11	0	0	0	0	0
August	12.5	NW.	49	NW.	3	2	0	0	8	1	1	0	16	0	4	7	17	0	0	0	0	13	0	0	0	0	0
September	18.5	NW.	69	NW.	11	3	0	0	7	0	0	0	20	0	12	4	14	4	3	0	0	8	0	0	0	0	0
October	14.3	NW.	50	NW.	3	3	0	0	6	0	1	0	21	0	5	6	20	2	1	0	0	15	0	0	0	0	0
November	15.4	NW.	72	NW.	7	0	3	0	3	0	2	1	20	1	16	7	7	6	6	0	0	3	0	0	0	0	0
December	13.7	NW.	67	NW.	6	3	0	0	4	0	2	3	19	0	10	9	12	9	8	0	0	8	0	0	0	0	0
Year	16.2	NW.	120	NW.	84	52	3	4	58	28	27	7	182	1	99	64	199	73	61	0	0	69	0	0	0	0	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

PORT ANGELES, WASH.

[λ=48° 7′ N.; φ=123° 06′ W.; gravity corr., +0.01.]

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	29.82	30.40	29.11	35.1	37.7	41.8	32.4	37.1	56	26	32	34	87	86	.179	.194	5.91	1.22	7.7	7.5	7.5
February	30.08	30.51	29.58	39.6	45.0	47.3	37.1	42.2	57	27	36	38	86	78	.214	.232	1.32	.41	7.8	7.2	6.9
March	29.92	30.43	29.16	37.6	45.9	48.4	35.7	42.0	59	30	32	37	81	73	.182	.225	1.40	.33	5.1	5.9	5.3
April	30.00	30.46	29.56	39.9	49.9	52.9	38.1	45.5	62	30	36	39	84	67	.209	.238	1.77	.80	5.7	6.1	5.7
May	29.96	30.52	29.28	45.2	53.7	57.1	43.6	50.4	75	35	40	43	83	69	.251	.281	1.55	.67	5.5	5.3	5.0
June	30.11	30.45	29.75	50.0	58.8	61.5	47.1	54.3	82	40	45	48	84	68	.303	.338	.19	.12	5.1	4.4	4.2
July	30.03	30.29	29.63	51.9	60.7	64.6	48.9	56.8	85	42	46	49	81	67	.313	.350	T.	T.	4.8	6.0	5.1
August	30.02	30.22	29.77	50.2	59.1	64.6	47.9	56.2	88	38	45	50	83	69	.303	.365	.44	.44	2.8	1.9	2.0
September	29.98	30.31	29.62	46.3	54.5	57.0	44.4	50.7	62	33	41	45	83	71	.263	.300	.35	.15	5.6	6.8	6.3
October	30.09	30.30	29.84	45.0	51.4	54.8	42.0	48.4	65	32	42	46	89	82	.267	.310	.15	.11	3.9	3.6	4.7
November	30.07	30.56	29.50	41.5	44.0	49.0	38.1	43.6	60	29	37	40	85	86	.230	.251	3.04	1.29	6.5	6.7	6.7
December	29.93	30.57	29.27	38.5	40.7	45.6	35.0	40.3	64	22	34	36	85	84	.200	.215	7.95	1.59	7.1	7.6	7.5
Year	30.00	30.57	29.11	43.4	50.1	53.7	40.9	47.3	88	22	39	42	84	75	.243	.275	24.07	1.59	5.6	5.8	5.6

PORT CRESCENT, WASH.

[λ=48° 10′ N.; φ=123° 44′ W.; gravity corr., 0.]

January						39.7	29.2	34.4	49	21							8.31	1.93			
February						47.4	35.0	41.2	60	26							2.28	.60			
March						48.0	33.1	40.6	55	22							4.45	1.26			
April						54.5	35.3	44.9	65	29							4.71	1.91			
May						61.8	39.7	50.8	85	33							4.24	1.13			
June						65.3	44.8	55.0	90	35							.27	.14			
July						68.8	46.0	57.4	90	35							.33	.25			
August						68.5	44.2	56.4	89	32							.47	.29			
September						59.3	38.9	49.1	66	26							.85	.36			
October						59.9	37.4	48.6	69	28							.09	.09			
November						48.8	34.3	41.6	64	24							3.76	.53			
December						43.7	32.8	38.2	54	18							10.74	1.48			
Year						55.5	37.6	46.5	90	18							40.50	1.93			

PORT HURON, MICH.

[λ=43° 00′ N.; φ=82° 26′ W.; gravity corr., 0.]

January	29.26	29.88	28.43	16.9	21.2	25.7	13.4	19.6	46	— 8	12	16	80	78	.082	.092	2.69	0.86	7.1	6.4	6.9
February	29.34	29.78	28.65	12.7	18.9	23.6	9.7	16.6	49	—16	8	14	79	79	.070	.090	.18	.06	5.6	5.3	5.2
March	29.33	29.71	28.81	21.7	27.7	33.6	17.5	25.6	59	— 2	15	20	75	71	.090	.108	1.09	.69	5.0	4.8	5.6
April	29.34	29.88	28.89	40.3	43.6	52.3	35.3	43.8	78	25	33	33	75	67	.191	.195	1.45	.52	4.5	5.5	5.5
May	29.34	29.63	28.93	54.1	59.9	68.3	46.9	57.6	93	28	46	46	74	63	.338	.360	2.89	1.31	4.0	4.5	4.5
June	29.39	29.71	29.12	65.3	69.2	78.7	57.1	67.9	95	40	56	55	74	64	.469	.450	.90	.31	4.3	3.2	3.6
July	29.32	29.65	28.97	62.3	68.2	76.5	56.1	66.3	92	44	53	54	73	64	.415	.439	1.15	.36	4.5	3.9	4.4
August	29.27	29.49	28.99	62.8	69.5	79.0	58.5	68.8	92	47	56	57	79	67	.460	.481	3.15	1.22	4.2	3.4	3.8
September	29.34	29.60	28.92	59.0	65.0	73.5	55.2	64.4	94	34	53	53	80	68	.423	.437	3.68	1.10	4.0	3.8	4.0
October	29.34	29.80	28.88	38.7	45.3	52.4	35.6	44.0	69	19	32	33	77	62	.187	.195	.85	.58	3.8	3.4	3.7
November	29.42	29.79	28.61	32.9	37.8	43.8	30.5	37.2	69	9	27	30	77	72	.152	.172	3.91	1.35	5.6	5.9	5.6
December	29.33	29.83	28.67	27.9	29.8	34.5	23.3	28.9	59	5	24	25	83	81	.141	.144	4.17	1.22	7.9	6.9	7.0
Year	29.35	29.88	28.43	41.2	46.4	53.5	36.6	45.1	95	—16	35	36	77	70	.252	.264	26.11	1.35	5.0	4.8	5.0

PORTLAND, ME.

[λ=43° 39′ N.; φ=70° 15′ W.; gravity corr., 0.]

January	29.88	30.56	29.14	18.4	23.8	29.4	14.5	22.0	42	— 4	15	19	86	80	.094	.108	2.47	0.62	5.1	4.3	5.5
February	29.68	30.28	28.59	15.3	22.1	28.2	11.2	19.7	40	—11	10	16	79	75	.072	.098	.94	.50	5.6	3.5	5.4
March	29.79	30.36	29.10	27.0	31.1	36.4	22.4	29.4	46	4	20	26	72	78	.115	.140	3.37	1.20	5.1	4.8	5.8
April	29.91	30.56	29.19	41.9	42.3	50.2	34.8	42.5	63	23	36	36	80	78	.216	.214	5.95	2.85	5.6	5.1	6.2
May	29.89	30.37	29.43	55.1	53.8	62.8	46.3	54.6	87	34	50	49	82	86	.375	.364	1.59	1.08	5.5	6.1	6.1
June	29.95	30.33	29.50	63.7	62.2	70.8	56.5	63.6	92	48	59	58	86	87	.505	.484	1.97	.66	5.6	5.9	6.7
July	29.81	30.06	29.57	65.3	64.6	73.6	58.0	65.8	86	52	58	59	78	83	.485	.498	3.59	1.20	6.4	6.3	6.5
August	29.80	30.07	29.46	65.2	65.5	73.8	58.5	66.2	83	47	57	59	77	81	.477	.505	4.72	1.02	4.9	5.2	5.5
September	29.89	30.22	29.44	59.7	61.6	70.5	53.0	61.8	93	42	51	54	75	76	.400	.432	1.79	.87	4.6	3.4	4.5
October	29.88	30.50	29.35	43.5	46.4	54.5	37.8	46.2	68	27	36	38	75	73	.223	.240	1.91	1.10	5.3	5.1	5.6
November	29.02	30.52	28.95	36.4	40.8	47.0	32.9	40.0	69	14	32	36	83	82	.191	.224	7.13	2.22	6.8	4.4	6.2
December	29.96	30.66	28.90	27.4	31.2	37.2	23.0	30.1	59	— 1	22	25	80	76	.140	.150	3.30	1.34	5.5	4.6	5.4
Year	29.87	30.66	28.59	43.2	45.4	52.9	37.4	45.2	93	—11	37	40	79	80	.274	.288	38.78	2.85	5.5	4.9	5.8

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

PORT ANGELES, WASH.

[H = 29 ft.; h_t = 47 ft.; h_r = 35 ft.; h_a = 61 ft.]

	Wind.														Number of days.												
	By self-registers.					Number of winds, 8 a. m. and 8 p. m.												Precipitation.					Maximum temp.			Electricity.	
	Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Below 32°.	Above 90°.	Minimum temperature below 32°.	Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	4.8	S.	26	E.	0	0	3	4	13	29	7	6	0	0	4	9	18	18	13	4	0	0	0	0	14	0	0
February	5.0	S.	36	E.	0	0	3	8	8	16	8	9	3	1	6	6	16	12	8	0	0	0	0	0	5	0	0
March	5.1	S.	34	W.	0	2	6	7	4	15	8	11	9	0	10	9	12	14	8	0	0	0	0	0	4	0	0
April	5.4	S.	25	W.	0	1	3	6	2	20	7	17	4	0	9	11	10	12	8	0	0	0	0	0	1	1	0
May	6.5	W.	38	W.	0	2	0	6	1	20	6	24	3	0	12	14	5	14	9	0	0	0	0	0	0	0	0
June	7.7	W.	28	W.	0	1	2	2	8	10	6	25	6	0	11	13	6	4	2	0	0	0	0	0	0	0	0
July	6.8	W.	24	W.	0	1	0	3	2	16	7	28	5	0	12	8	11	0	0	0	0	0	0	0	0	0	0
August	6.5	W.	36	W.	0	0	0	2	4	17	4	31	4	0	26	2	3	2	1	0	0	0	0	0	0	0	0
September	5.3	S.	32	W.	0	1	3	9	5	17	5	16	4	0	6	13	11	8	4	0	0	1	0	0	0	0	0
October	4.0	S.	24	W.	0	0	3	5	16	21	4	7	4	2	14	8	9	3	1	0	0	10	0	0	0	0	0
November	4.5	S.	24	W.	0	1	0	2	15	31	5	5	1	0	4	13	13	15	12	0	0	1	0	0	5	0	0
December	6.7	S.	37	W.	0	1	2	0	13	21	18	7	0	0	2	12	17	23	18	3	0	0	0	0	7	0	0
Year	5.7	S.	38	W.	0	10	25	54	91	233	85	186	43	3	116	118	131	125	84	7	0	12	0	0	36	1	0

PORT CRESCENT, WASH.

[H = — ft.; h_t = 4 ft.; h_r = 1 ft.; h_a = — ft.]

January	.....	E.	....	.....	.....	0	4	8	7	3	5	3	0	1	6	6	19	14	14	5	....	....	0	0	23	....	...
February	.....	E.	....	.....	.....	0	0	12	1	1	6	5	0	3	8	13	7	8	8	0	....	....	0	0	8	....	...
March	.....	E.	....	.....	.....	0	1	8	4	2	7	6	0	3	14	9	8	10	10	0	....	....	0	0	9	....	...
April	.....	E.	....	.....	.....	0	0	10	5	0	3	7	0	5	11	13	6	9	9	0	....	....	0	0	3	....	...
May	.....	W.	....	.....	.....	0	0	3	2	0	4	18	0	4	11	9	11	13	13	0	....	....	0	0	0	....	...
June	.....	W.	....	.....	.....	0	0	3	0	0	4	18	0	5	15	10	5	2	2	0	....	....	0	0	0	....	...
July	.....	W.	....	.....	.....	0	0	9	0	1	2	15	0	4	12	18	1	2	2	0	....	....	0	0	0	....	...
August	.....	W.	....	.....	.....	0	0	3	0	0	5	19	0	4	22	8	1	2	2	0	....	....	0	0	0	....	...
September	.....	W.	....	.....	.....	0	1	6	0	0	4	13	0	6	6	17	7	7	7	0	....	....	0	0	2	....	...
October	.....	E.	....	.....	.....	0	1	14	0	0	3	8	0	5	16	11	4	1	1	0	....	....	0	0	4	....	...
November	.....	E.	....	.....	.....	0	1	12	4	0	10	1	0	2	6	10	14	15	15	0	....	....	0	0	10	....	...
December	.....	SW.	....	.....	.....	0	4	4	3	3	10	4	1	2	3	2	26	26	26	3	....	....	0	0	10	....	...
Year	.....	W.	....	.....	.....	0	12	92	26	10	63	117	1	44	130	126	109	109	109	8	....	....	0	0	69	....	...

PORT HURON, MICH.

[H = 639 ft.; h_t = 70 ft.; h_r = 63 ft.; h_a = 108 ft.]

January	13.2	SW.	53	SW.	3	1	4	4	4	20	20	7	2	0	7	5	19	15	13	13	0	0	26	0	30	0	0
February	13.0	SW.	46	SW.	1	2	1	0	0	12	20	11	10	0	11	5	12	9	1	8	0	0	20	0	26	0	1
March	13.2	NE.	43	SW.	2	2	17	1	6	11	8	8	9	0	11	7	13	11	6	9	0	0	14	0	30	3	0
April	10.9	NE.	42	W.	1	5	18	6	9	3	5	3	11	0	9	9	12	9	6	0	0	2	0	0	9	0	0
May	11.0	S.	38	NE.	0	4	6	1	7	19	19	2	4	0	13	8	10	11	7	1	0	0	0	2	4	6	0
June	8.8	N.	38	W.	0	15	6	3	8	10	12	3	3	0	16	10	4	9	8	0	0	2	0	3	0	3	0
July	9.1	NE.	33	SW.	0	10	17	0	5	7	10	7	5	1	13	13	5	7	5	0	0	0	0	3	0	2	0
August	8.6	S.	46	SW.	1	16	5	1	6	17	4	7	6	0	15	11	5	9	7	0	0	3	0	1	0	4	0
September	11.0	S.	36	W.	0	6	5	2	12	18	8	8	1	0	13	10	7	10	8	0	0	3	0	3	0	7	0
October	12.8	S.	40	SW.	1	6	1	1	2	21	17	6	8	0	15	13	3	6	4	0	0	1	0	0	7	0	0
November	12.0	S.	58	SW.	3	4	7	2	6	19	9	5	8	0	8	12	10	14	10	7	0	0	4	0	16	0	0
December	12.1	S.	38	SW.	0	0	4	3	9	21	16	4	4	1	6	9	16	18	14	9	0	1	14	0	24	0	0
Year	11.3	S.	58	SW.	12	71	91	24	74	178	148	71	71	2	137	112	116	128	89	47	0	12	78	12	146	25	1

PORTLAND, ME.

[H = 103 ft.; h_t = 81 ft.; h_r = 75 ft.; h_a = 89 ft.]

January	6.7	W.	34	E.	0	5	3	2	2	2	10	21	17	0	12	7	12	10	9	8	0	3	21	0	29	0	0
February	7.8	W.	36	NE.	0	1	4	1	1	5	10	21	12	1	9	8	11	6	3	5	0	1	14	0	28	0	0
March	8.1	NW.	28	NW.	0	11	2	0	4	4	11	8	20	2	8	11	12	12	10	8	0	0	6	0	30	0	0
April	8.6	S.	44	S.	1	7	7	3	6	13	7	5	12	0	6	11	13	12	10	3	0	0	0	0	10	2	0
May	7.6	S.	30	S.	0	4	3	7	4	17	13	8	6	0	7	13	11	9	6	0	0	1	0	0	0	1	0
June	6.6	S.	32	NW.	0	3	4	14	7	18	8	3	3	0	8	6	16	11	7	0	0	4	0	1	0	3	0
July	6.9	S.	29	S.	0	2	4	1	5	20	7	7	15	1	7	11	13	13	10	0	0	3	0	0	0	1	0
August	6.7	W.	23	W.	0	2	5	2	5	7	19	8	11	3	10	10	11	12	9	0	0	3	0	0	0	2	0
September	6.8	NW.	26	NW.	0	1	2	3	3	6	18	8	15	4	14	8	8	9	6	0	1	2	0	2	0	1	0
October	8.5	NW.	32	NW.	0	5	1	2	3	4	17	9	19	2	8	15	8	7	7	0	0	1	0	0	10	0	0
November	6.9	SW.	38	S.	0	10	5	0	2	7	15	8	11	2	8	10	12	17	15	5	0	2	2	0	14	0	0
December	8.7	N.	49	SE.	2	15	2	1	3	4	13	7	13	4	7	15	9	8	7	3	0	1	10	0	20	0	0
Year	7.5	NW.	49	SE.	3	66	42	36	45	107	148	113	154	19	104	125	136	126	99	32	1	21	53	3	141	10	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

PORTLAND, OREG.

[λ=45° 32′ N.; φ=122° 43′ W.; gravity corr., 0.]

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	29.75	30.25	29.12	35.8	38.7	42.1	32.5	37.3	57	25	33	33	88	81	.189	.194	8.53	2.80	7.5	8.1	7.5
February	30.00	30.28	29.50	39.4	47.3	48.6	37.1	42.8	58	28	35	37	86	69	.215	.229	1.01	.30	5.2	6.4	6.3
March	29.83	30.30	29.05	39.9	51.7	54.1	37.7	45.9	66	27	34	33	80	54	.197	.199	2.84	.94	5.1	5.4	5.4
April	29.90	30.42	29.53	44.4	57.8	61.2	41.8	51.5	82	32	38	36	80	50	.232	.216	1.91	.68	5.9	5.7	5.5
May	29.84	30.39	29.28	49.2	61.4	64.0	47.8	55.9	86	36	42	40	80	52	.276	.258	3.42	.91	6.5	6.3	6.0
June	29.97	30.33	29.57	53.0	70.4	72.7	51.7	62.2	97	44	47	46	81	45	.327	.315	.57	.44	6.0	4.6	4.4
July	29.88	30.09	29.58	56.7	74.4	75.8	55.5	65.6	94	47	50	47	80	41	.364	.329	.23	.18	4.9	4.4	4.4
August	29.84	30.04	29.57	55.5	75.1	76.9	53.8	65.4	91	44	50	50	83	43	.364	.367	.37	.37	1.4	.8	1.2
September	29.86	30.20	29.48	51.2	63.4	65.7	49.1	57.4	79	36	47	44	87	53	.328	.302	1.16	.64	5.4	5.7	5.6
October	29.92	30.15	29.73	49.0	63.0	65.9	46.2	56.0	79	31	45	44	88	55	.301	.298	T.	T.	3.0	2.7	4.4
November	29.98	30.46	29.54	40.3	47.1	50.3	37.4	43.8	63	27	38	38	91	74	.233	.244	2.93	.68	4.6	5.7	6.6
December	29.92	30.50	29.25	40.0	42.0	45.1	36.6	40.8	57	30	37	37	89	83	.224	.223	7.79	2.01	7.8	9.3	8.0
Year	29.89	30.50	29.05	46.2	57.7	60.2	43.9	52.0	97	25	41	40	84	58	.271	.264	30.76	2.80	5.3	5.4	5.4

PUEBLO, COLO.

[λ = 38° 18′ N.; φ = 104° 36′ W.; gravity corr., — 0.02.]

January	25.14	25.65	24.81	21.5	33.5	42.5	15.4	29.0	64	— 7	8	13	57	45	.065	.079	0.44	0.23	3.4	4.7	4.6
February	25.30	25.62	24.99	17.2	30.9	40.1	10.4	25.2	68	—24	6	11	63	46	.072	.083	.89	.26	4.4	5.0	4.5
March	25.19	25.65	24.75	27.7	48.0	53.9	24.7	39.3	79	— 1	14	12	56	28	.079	.075	.59	.28	4.9	4.4	4.4
April	25.22	25.63	24.78	38.8	62.3	67.9	35.1	51.5	80	19	22	13	52	19	.122	.085	.91	.70	3.3	5.8	4.4
May	25.21	25.62	24.67	47.5	67.8	72.6	44.1	58.4	93	35	32	26	57	29	.184	.157	2.45	.87	4.3	6.1	5.1
June	25.31	25.54	24.97	55.6	74.3	80.5	52.0	66.2	94	40	44	38	69	33	298	.249	2.09	.78	4.5	6.2	5.0
July	25.34	25.54	25.08	59.7	75.5	83.1	56.3	69.7	95	49	50	49	72	46	.363	.355	6.72	2.12	4.5	6.4	4.7
August	25.33	25.54	25.04	60.8	76.5	85.8	58.0	71.9	96	51	50	50	70	44	.372	.374	1.11	.24	3.5	6.4	3.9
September	25.28	25.64	24.90	51.6	77.8	85.0	49.5	67.2	96	28	34	30	53	19	.204	.174	.03	.03	3.0	2.8	2.3
October	25.37	25.60	25.07	37.3	57.3	66.2	35.4	50.8	81	19	27	26	67	32	.149	.147	1.46	1.39	2.8	3.1	3.2
November	25.26	25.62	24.87	27.7	43.2	52.7	23.4	38.0	76	2	14	14	57	35	.080	.084	.32	.14	4.0	3.4	4.7
December	25.24	25.58	24.73	24.8	34.5	44.3	17.5	30.9	68	2	12	13	62	44	.077	.082	.46	.24	2.7	3.0	3.8
Year	25.27	25.65	24.67	39.2	56.8	64.6	35.2	49.8	96	—24	26	25	61	35	.172	.162	17.47	2.12	3.8	4.8	4.2

PYSHT, WASH.

[λ=48° 12′ N.; φ=124° 04′ W.; gravity corr., —.]

January						41.2	31.1	36.2	48	25							12.07	2.67			
February						43.0	37.3	42.6	58	29							3.81	.92			
March						50.0	32.9	41.4	59	22							8.80	2.07			
April						54.2	36.1	45.2	68	29							6.98	1.29			
May						62.3	40.7	51.5	77	34							6.14	1.54			
June						67.8	45.4	56.6	85	37							.41	.13			
July						71.1	47.3	59.2	86	39							.79	.36			
August						70.9	47.0	59.0	79	42							.00	.00			
September						57.9	43.5	50.7	65	32							1.48	.24			
October						54.3	42.0	48.2	65	31							.75	.43			
November						48.1	36.0	42.0	60	23							5.85	1.03			
December						44.8	33.9	39.4	56	23							20.50	3.29			
Year						55.9	39.4	47.7	86	22							67.58	3.29			

RALEIGH, N. C.

[λ=35° 45′ N.; φ=78° 37′ W.; gravity corr., — 0.02.]

January	29.68	30.01	29.14	34.4	40.9	47.5	31.3	39.4	69	6	30	30	82	67	.176	.180	7.44	2.39	5.1	5.7	6.4
February	29.69	30.11	29.01	27.4	35.0	40.6	24.6	32.6	71	4	18	21	66	56	.108	.120	2.66	1.10	4.4	3.8	4.4
March	29.66	30.11	29.16	44.6	51.1	58.6	39.4	49.0	85	25	37	37	76	61	.238	.236	6.09	2.09	5.6	4.1	5.8
April	29.62	30.15	29.07	53.1	59.3	67.7	47.5	57.6	85	33	47	46	80	65	.335	.326	7.95	2.30	5.1	4.8	5.4
May	29.69	29.92	29.37	61.9	67.2	74.7	55.2	65.0	98	41	56	57	81	72	.462	.486	3.46	.68	5.2	4.8	5.5
June	29.66	29.95	29.47	73.5	77.8	87.3	65.9	76.6	100	52	64	63	73	62	.599	.582	3.79	1.73	4.1	6.2	5.1
July	29.62	29.85	29.34	73.3	76.8	85.4	67.4	76.4	97	60	67	67	82	74	.672	.676	7.08	1.83	5.5	5.5	5.3
August	29.62	29.82	29.45	73.2	76.9	86.2	68.5	77.4	94	60	68	68	84	76	.690	.705	3.99	1.26	3.9	6.2	4.7
September	29.68	29.92	29.47	70.6	75.7	86.1	65.7	75.9	98	50	63	61	77	63	.588	.565	.38	.18	3.3	2.6	3.7
October	29.69	30.07	29.35	50.7	58.6	68.2	45.5	56.8	80	34	40	40	69	52	.264	.262	2.82	1.90	3.1	2.7	3.7
November	29.78	30.20	29.23	46.1	52.2	60.0	42.5	51.2	78	26	42	43	84	72	.288	.305	2.84	1.16	5.3	4.4	5.4
December	29.75	30.27	29.08	37.5	44.9	52.1	34.8	43.4	71	20	32	33	80	64	.200	.208	2.62	1.55	5.4	5.4	6.1
Year	29.68	30.27	29.01	53.9	59.7	67.9	49.0	58.4	100	4	47	47	78	66	.385	.388	51.12	2.39	4.7	4.7	5.1

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

PORTLAND, OREG.

[H = 157 ft.; h_t = 203 ft.; h_r = 196 ft.; h_a = 213 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	7.0	SE.	44	SW.	1	11	2	2	22	9	8	3	5	0	2	10	19	20	14	8	0	1	0	0	14	0	0
February	8.4	S.	36	E.	0	6	0	5	13	17	6	2	6	1	4	14	10	10	7	1	0	9	0	0	4	0	0
March	9.0	NW.	45	S.	3	2	4	4	9	11	6	4	22	0	10	13	8	12	8	0	5	2	0	0	2	0	0
April	9.4	NW.	46	SE.	3	3	0	4	17	11	6	4	15	0	8	14	8	12	8	1	2	0	0	0	0	0	0
May	10.3	NW.	38	SW.	0	3	5	3	11	14	10	4	11	1	7	12	12	18	11	0	3	2	0	0	0	0	0
June	8.1	NW.	35	E.	0	3	2	2	9	6	2	4	32	0	13	15	2	5	2	0	1	0	0	2	0	0	0
July	8.7	NW.	28	NE.	0	2	3	1	10	4	4	0	38	0	13	14	4	4	2	0	0	0	0	4	0	0	0
August	8.3	NW.	27	NW.	0	3	0	1	7	3	0	9	33	6	27	3	1	1	1	0	0	4	0	1	0	1	0
September	7.9	NW.	34	W.	0	1	1	4	9	7	6	4	27	1	5	18	7	12	5	0	0	3	0	0	0	0	0
October	6.8	NW.	33	NE.	0	1	6	3	2	5	1	0	40	4	12	16	3	0	0	0	0	10	0	0	1	0	0
November	7.5	NW.	45	S.	2	2	4	4	21	6	2	4	15	2	3	17	10	13	12	0	0	9	0	0	6	0	0
December	10.7	S.	53	SE.	5	1	3	7	13	23	5	4	5	1	0	9	22	28	21	8	0	1	0	0	4	0	0
Year	8.5	NW.	53	SE.	14	38	30	40	143	116	56	42	249	16	104	155	106	135	91	18	11	41	0	7	31	1	0

PUEBLO, COLO.

[H = 4,734 ft.; h_t = 74 ft.; h_r = 65 ft.; h_a = 81 ft.]

Month.	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.
January	7.6	NW.	50	SW.	2	8	4	6	10	1	6	6	20	1	12	13	6	6	3	5	0	1	8	0	27	0	0
February	7.2	NW.	41	NE.	2	7	7	3	12	0	2	7	18	0	14	6	8	8	7	6	0	0	9	0	24	0	0
March	8.5	NW.	42	N.	2	15	2	5	14	2	3	6	15	0	16	9	6	6	5	5	0	0	4	0	24	0	0
April	8.9	NW.	48	N.	2	13	5	4	8	4	9	3	14	0	16	5	9	3	3	2	0	0	0	0	10	0	0
May	9.3	NW.	54	N.	2	10	4	5	13	2	8	3	16	1	11	13	7	9	5	0	0	0	0	2	0	3	0
June	7.4	NW.	36	N.	0	5	7	6	11	2	6	5	17	1	11	11	8	11	8	0	1	0	0	4	0	9	0
July	6.6	NW.	34	N.	0	6	3	7	12	3	4	5	19	3	13	10	8	14	11	0	0	0	0	10	0	12	0
August	6.3	SE.	44	NW.	2	5	6	7	16	2	1	7	14	4	14	14	3	13	9	0	0	0	0	10	0	12	0
September	6.8	NW.	44	N.	1	5	3	8	8	2	8	5	20	1	22	8	0	1	0	1	0	0	0	14	4	1	0
October	6.4	NW.	38	NE.	0	6	8	8	9	1	1	6	18	5	18	9	4	3	2	0	0	1	0	0	9	1	0
November	6.6	NW.	38	NE.	0	11	4	6	8	2	4	5	16	4	14	9	7	5	4	5	0	0	4	0	24	0	0
December	7.8	NW.	51	W.	1	12	2	5	4	2	5	10	19	3	15	11	5	4	2	4	0	2	5	0	31	0	0
Year	7.4	NW.	54	N.	14	103	55	70	125	23	57	68	206	23	176	118	71	83	59	28	1	4	30	40	153	38	0

PYSHT, WASH.

[H = — ft.; h_t = 5 ft.; h_r = 4 ft.; h_a = — ft.]

Month.	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.
January	.....	Calm. E.	...	.....	....	0	0	10	0	0	0	0	0	21	5	1	25	17	12	2	0	0	0	0	18	0	0
February	.....	E.	...	.....	....	0	0	10	0	0	1	8	0	9	2	3	23	15	10	0	0	1	0	0	2	0	0
March	.....	Calm. E.	...	.....	....	0	0	8	0	0	0	8	0	15	9	0	22	19	15	1	1	0	0	0	13	1	0
April	.....	W.	...	.....	....	0	0	6	1	2	1	7	0	13	6	3	21	19	17	1	0	0	0	0	3	0	0
May	.....	W.	...	.....	....	0	0	6	0	0	0	21	0	4	7	8	16	22	13	0	0	0	0	0	0	0	0
June	.....	W.	...	.....	....	0	0	5	0	0	1	18	0	6	10	5	15	10	3	0	0	1	0	0	0	0	0
July	.....	W.	...	.....	....	0	0	6	0	0	5	15	0	5	15	7	9	8	5	0	0	2	0	0	0	0	0
August	.....	W.	...	.....	....	0	0	2	0	0	3	7	0	6	14	2	2	0	0	0	0	3	0	0	0	0	0
September	.....	Calm. W.	...	.....	....	0	0	6	1	0	5	7	0	11	5	5	20	15	9	0	0	1	0	0	0	0	0
October	.....	Calm. E.	...	.....	....	0	0	4	2	0	1	2	0	23	17	3	11	6	4	0	0	14	0	0	1	0	0
November	.....	Calm. E.	...	.....	....	0	0	6	1	1	4	0	0	7	8	2	20	21	15	0	0	0	0	0	7	0	0
December	.....	Calm. SW.	...	.....	....	0	0	5	4	0	9	3	0	10	3	0	28	29	25	3	0	0	0	0	13	0	0
Year	.....	Calm. W.	...	.....	....	0	0	74	9	3	30	96	0	140	101	39	212	181	128	7	1	22	0	0	57	1	0

RALEIGH, N. C.

[H = 388 ft.; h_t = 70 ft.; h_r = 2 ft.; h_a = 80 ft.]

Month.	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.
January	6.9	SW.	30	SW.	0	11	10	2	3	12	16	5	3	0	5	12	14	13	13	0	0	5	1	0	16	0	0
February	8.0	NW.	33	NW.	0	15	6	0	1	1	15	3	15	0	13	7	8	8	7	6	0	0	8	0	24	0	0
March	7.9	SW.	32	NW.	0	7	7	1	6	12	15	3	11	0	11	5	15	14	13	2	0	1	0	0	6	1	0
April	7.0	N.	30	NW.	0	17	6	2	2	11	9	5	6	1	13	3	14	17	14	0	1	2	0	0	0	5	0
May	5.2	SW.	27	N.	0	10	7	5	7	7	12	3	7	4	8	13	10	16	14	0	0	1	0	2	0	1	0
June	5.2	N.	28	N.	0	16	9	0	5	9	7	4	7	3	9	11	10	13	11	0	0	0	0	11	0	8	0
July	4.5	SW.	31	NW.	0	8	5	2	2	10	16	9	8	2	9	12	10	15	14	0	0	0	0	8	0	9	0
August	4.3	SW.	24	NW.	0	5	4	4	1	18	22	4	3	1	13	11	7	16	10	0	0	0	0	7	0	9	0
September	4.4	SW.	26	N.	0	8	5	8	1	12	12	3	5	6	14	12	4	5	3	0	0	2	0	10	0	2	0
October	6.0	N.	22	NW.	0	17	8	0	0	10	10	4	11	2	16	5	10	5	4	0	0	2	0	0	0	0	0
November	7.1	N.	32	NW.	0	17	11	0	2	9	7	4	6	4	11	8	11	10	7	0	0	5	0	0	3	0	0
December	7.0	N.	37	SW.	0	20	3	2	7	9	11	1	8	1	7	9	15	8	6	0	0	3	0	0	15	0	0
Year	6.1	SW.	37	SW.	0	151	81	26	38	120	152	48	90	24	129	108	128	140	116	8	1	21	9	38	64	35	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

RAPID CITY, S. DAK.

[λ=44° 04′ N.; φ=103° 12′ W.; gravity corr., 0.]

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	26.50	27.02	25.96	12.3	18.9	26.8	6.3	16.6	53	— 7	4	10	68	67	.054	.070	0.25	0.05	5.4	4.4	5.9
February	26.68	27.24	26.17	13.8	22.3	29.6	8.6	19.1	72	—24	5	10	69	60	.070	.081	.27	.11	6.2	5.6	6.3
March	26.55	27.02	26.06	24.2	35.2	42.5	19.5	31.0	76	— 8	15	19	68	58	.090	.111	1.95	.88	5.8	5.9	6.3
April	26.57	27.00	26.05	41.8	58.2	63.2	38.2	50.7	83	21	29	34	62	44	.168	.206	1.53	1.24	5.2	5.7	5.6
May	26.55	27.01	25.98	48.5	59.0	64.6	43.7	54.2	82	28	37	37	67	48	.228	.232	2.66	1.31	6.0	6.2	6.8
June	26.64	26.83	26.34	56.0	66.6	70.8	50.2	60.5	87	40	46	48	70	54	.310	.340	6.22	2.68	4.4	6.2	5.9
July	26.63	26.90	26.32	62.7	78.2	82.7	57.2	70.0	96	47	48	48	61	36	.346	.337	.39	.34	3.4	5.6	4.5
August	26.62	26.89	26.30	60.5	78.3	83.1	56.7	69.9	98	48	44	44	58	34	.299	.301	.69	.40	4.7	4.2	4.6
September	26.57	27.04	26.02	52.2	67.2	75.7	48.7	62.2	100	29	34	38	53	37	.199	.237	.36	.27	3.9	5.2	4.8
October	26.69	26.95	26.34	39.5	50.9	61.4	34.9	48.2	85	10	27	29	60	45	.151	.164	.02	.02	4.5	3.5	4.3
November	26.59	26.97	26.18	27.7	32.4	41.7	22.0	31.8	71	— 2	18	21	68	65	.106	.122	1.03	.41	5.6	5.2	7.0
December	26.51	26.98	25.96	26.6	29.4	40.1	18.6	29.4	62	— 5	15	16	62	58	.087	.093	.11	.07	4.6	4.1	4.8
Year	26.59	27.24	25.96	38.8	49.7	56.8	33.7	45.3	100	—24	27	30	64	50	.176	.191	15.48	2.68	5.0	5.2	5.6

REDBLUFF, CAL.

[λ=40° 10′ N.; φ=122° 15′ W.; gravity corr.,—0.01.]

Month.	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.
January	29.63	30.05	28.94	39.8	47.4	49.6	38.1	43.8	66	29	38	40	93	77	.231	.246	8.29	2.36	5.3	6.0	6.0
February	29.75	30.05	29.36	44.5	61.0	63.6	42.1	52.8	76	32	41	43	87	56	.256	.282	2.68	1.70	3.6	3.9	3.8
March	29.68	29.89	29.27	45.0	60.3	62.7	42.9	52.8	74	34	39	40	82	49	.245	.255	2.59	1.05	3.9	4.9	4.4
April	29.71	30.12	29.53	49.3	68.0	70.1	48.1	59.1	93	36	40	40	74	42	.260	.260	.34	.16	3.5	4.3	3.9
May	29.60	29.89	29.36	55.2	75.8	77.9	54.5	66.2	98	47	44	44	70	37	.307	.307	1.65	1.06	2.7	3.6	3.7
June	29.57	29.84	29.37	65.6	90.3	91.6	64.8	78.2	108	51	42	38	44	16	.272	.236	.00	.00	.8	1.7	1.0
July	29.55	29.73	29.37	66.9	93.1	94.2	65.9	80.0	107	56	48	45	54	21	.348	.304	.16	.10	1.2	1.3	1.1
August	29.50	29.70	29.28	68.4	93.6	95.5	66.8	81.2	107	55	46	44	47	20	.319	.290	T.	T.	1.1	2.2	1.5
September	29.57	29.84	29.35	57.5	79.1	81.0	56.0	68.5	97	48	46	45	68	35	.318	.315	1.76	.96	2.0	2.9	2.4
October	29.63	29.83	29.45	55.0	77.0	80.7	53.3	67.0	94	43	42	43	66	32	.279	.283	T.	T.	.7	2.6	1.8
November	29.74	30.13	29.37	45.3	60.3	64.3	42.9	53.6	85	31	36	34	72	44	.210	.208	1.93	.75	2.4	4.4	3.7
December	29.87	30.20	29.33	38.4	47.4	50.7	36.1	43.4	61	28	34	36	86	68	.205	.221	2.99	1.26	3.5	4.9	5.1
Year	29.65	30.20	28.94	52.6	71.1	73.5	51.0	62.2	108	28	41	41	70	41	.271	.267	22.57	2.36	2.6	3.6	3.2

ROCHESTER, N. Y.

[λ=43° 08′ N.; φ=77° 42′ W.; gravity corr., 0.]

Month.	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.
January	29.40	29.94	28.63	22.6	23.5	29.4	16.5	23.0	48	5	17	19	76	81	.096	.107	3.12	0.66	8.2	7.1	7.2
February	29.39	29.87	28.63	16.4	19.8	25.7	13.0	19.4	44	— 8	11	14	78	76	.074	.086	2.50	.87	8.1	6.2	5.8
March	29.45	29.90	28.88	25.4	28.4	35.6	21.2	28.4	58	4	18	21	70	74	.100	.116	1.56	.35	5.2	4.8	4.5
April	29.47	30.06	28.85	43.4	46.2	54.3	37.7	46.0	78	27	33	34	68	64	.200	.205	2.04	1.06	5.4	5.1	4.5
May	29.48	29.76	29.04	58.7	60.4	70.3	50.7	60.5	93	31	44	46	60	61	.323	.348	3.44	.90	4.3	4.5	4.2
June	29.51	29.83	29.21	69.2	71.2	81.1	60.3	70.7	94	44	57	55	66	58	.467	.445	1.56	.60	4.1	4.2	3.6
July	29.42	29.73	29.13	66.1	68.8	77.8	58.9	68.4	93	50	56	53	69	59	.450	.421	1.88	.44	5.5	5.1	5.1
August	29.40	29.68	29.18	66.8	68.6	79.0	59.7	69.4	91	46	57	58	72	69	.476	.485	3.40	1.86	4.1	4.0	4.4
September	29.48	29.83	29.13	61.9	64.3	74.5	55.8	65.2	93	37	52	54	72	70	.412	.432	2.38	1.17	4.2	3.5	4.2
October	29.46	29.93	28.99	42.4	44.6	52.8	37.0	44.9	71	27	32	36	69	74	.187	.223	1.38	.38	5.0	4.1	4.8
November	29.56	29.98	28.77	37.5	39.7	46.6	33.6	40.1	71	16	31	31	70	72	.186	.184	3.39	1.41	6.5	5.8	6.4
December	29.49	30.02	28.85	30.7	33.1	38.8	26.7	32.8	63	4	24	26	76	75	.140	.153	3.77	1.10	7.7	7.0	6.3
Year	29.46	30.06	28.63	45.1	47.4	55.5	39.3	47.4	94	— 8	36	37	71	69	.259	.267	30.42	1.86	5.7	5.1	5.1

ROSEBURG, OREG.

[λ=43° 13′ N.; φ=123° 20′ W.; gravity corr., 0.]

Month.	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.
January	29.31	29.77	28.61	36.2	43.8	46.4	33.8	40.1	62	20	33	36	90	76	.195	.220	5.05	1.11	4.7	6.9	5.8
February	29.54	29.85	28.83	37.7	52.0	52.9	36.5	44.7	65	23	36	42	95	69	.221	.266	1.52	.68	4.2	5.6	5.0
March	29.41	29.77	28.84	36.7	54.1	56.2	35.2	45.7	71	21	33	36	89	54	.195	.219	3.58	1.27	5.2	6.3	5.7
April	29.49	29.95	29.13	41.7	61.2	63.6	40.2	51.9	85	30	38	40	88	49	.232	.248	2.36	.83	5.7	5.5	5.6
May	29.44	29.94	28.96	46.7	63.0	65.5	46.1	55.8	89	32	44	44	90	54	.290	.294	2.14	.87	6.4	6.4	6.4
June	29.52	29.86	29.16	48.9	73.5	75.0	48.8	61.9	92	40	46	46	89	39	.314	.315	.22	.13	3.2	2.9	3.1
July	29.43	29.65	29.17	53.1	78.0	79.1	52.9	66.0	98	43	49	48	87	37	.354	.343	.27	.26	4.0	3.3	3.7
August	29.40	29.62	29.20	52.1	79.7	80.5	51.2	65.8	96	45	48	47	86	32	.341	.328	.01	.01	1.1	.5	.7
September	29.44	29.78	29.02	48.2	66.1	67.7	46.8	57.2	86	36	46	46	92	53	.314	.327	2.74	1.45	5.1	4.9	4.9
October	29.48	29.69	26.28	43.1	64.2	66.7	42.0	54.4	83	33	42	47	97	56	.271	.325	.00	.00	2.0	2.6	2.3
November	29.57	30.04	29.23	36.5	47.6	50.6	34.5	42.6	66	21	34	38	93	72	.208	.238	3.18	.72	3.8	4.4	4.1
December	29.57	30.10	29.01	39.1	43.8	46.8	36.7	41.8	66	26	37	40	93	87	.225	.252	8.85	1.83	6.1	8.9	7.5
Total	29.47	30.10	28.61	43.3	10.6	62.6	42.1	52.3	98	20	40	42	91	56	.263	.281	29.92	1.83	4.3	4.8	4.6

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

RAPID CITY, S. DAK.

[H = 3,260 ft.; h_t = 53 ft.; h_r = 46 ft.; h_a = 61 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	7.5	N.	31	N.	0	18	6	5	5	4	8	10	5	1	11	10	10	11	1	10	0	0	19	0	31	0	0
February	9.2	W.	48	NW.	4	10	5	6	4	2	6	13	8	2	3	15	10	6	3	6	0	0	14	0	24	0	0
March	9.8	N.	48	SW.	1	17	4	6	6	3	11	10	5	0	6	14	11	14	9	13	0	0	8	0	27	0	0
April	11.9	NW.	52	NW.	3	13	4	3	3	2	8	10	17	0	8	13	9	6	3	2	0	0	0	0	4	3	0
May	11.0	N.	36	W.	0	15	1	9	5	6	4	10	11	1	4	14	13	17	11	0	0	0	0	0	1	7	0
June	9.3	NW.	44	NW.	1	10	3	10	5	5	6	9	12	0	8	12	10	12	10	0	1	0	0	0	0	9	0
July	10.2	S.	37	NW.	0	9	3	7	8	10	9	7	7	2	12	17	2	4	1	0	0	0	0	7	0	7	2
August	9.5	N.	38	N.	0	14	0	6	8	8	9	12	5	0	11	16	4	5	4	0	0	0	0	6	0	5	2
September	10.6	W.	48	S.	1	8	1	3	6	6	8	14	13	1	11	13	6	3	2	1	0	0	0	5	3	2	0
October	9.7	W.	42	N.	1	7	0	2	2	6	13	18	10	4	14	14	3	1	0	0	0	0	0	0	11	0	2
November	8.0	W.	48	NW.	1	7	2	5	0	1	16	22	6	1	2	14	14	9	6	7	0	2	7	0	24	0	2
December	10.4	W.	46	NW.	5	4	1	3	1	8	14	20	11	0	11	14	6	4	1	4	0	0	6	0	28	0	0
Year	9.8	W.	52	NW.	17	132	30	65	53	61	112	155	110	12	101	166	98	92	51	43	1	2	54	18	153	33	8

REDBLUFF, CAL.

[H = 334 ft.; h_t = 54 ft.; h_r = 44 ft.; h_a = 58 ft.]

Month.	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.
January	9.2	SE.	37	SE.	0	7	3	0	21	7	3	2	19	0	11	3	17	15	14	0	0	5	0	0	2	0	0
February	5.6	NW.	33	SE.	0	8	0	0	8	7	2	2	28	1	15	6	7	4	4	0	0	0	0	0	0	1	0
March	6.4	S.	35	SE.	0	8	1	0	11	19	3	2	18	0	13	9	9	7	6	1	0	0	0	0	0	1	0
April	6.7	NW.	35	NW.	0	6	1	0	17	13	0	0	23	0	15	9	6	7	3	0	0	0	0	2	0	0	0
May	7.6	SE.	36	SE.	0	7	2	2	23	6	2	1	17	2	20	3	8	6	6	0	0	2	0	4	0	0	0
June	9.1	N.	36	N.	0	22	0	0	14	2	2	2	17	1	27	3	0	0	0	0	0	0	0	17	0	0	0
July	5.9	SE.	24	N.	0	15	1	0	30	5	1	0	9	1	27	2	2	2	2	0	0	0	0	24	0	0	0
August	4.6	SE.	24	N.	0	3	0	3	27	6	1	1	19	2	26	3	2	0	0	0	0	0	0	25	0	0	0
September	5.8	SE.	30	SE.	0	15	1	2	22	6	1	0	13	0	23	3	4	4	4	0	0	0	0	9	0	0	0
October	4.7	NW.	34	N.	0	10	2	2	16	6	1	2	21	2	23	7	1	0	0	0	0	0	0	2	0	0	0
November	6.6	NW.	40	N.	1	17	1	1	7	3	2	3	26	0	18	5	7	7	6	0	0	1	0	0	1	0	0
December	5.7	NW.	36	S.	0	14	2	3	13	5	4	0	21	0	13	8	10	8	6	0	0	5	0	0	7	0	0
Year	6.5	NW.	40	N.	1	132	14	13	209	85	22	15	231	9	231	61	73	60	51	1	0	13	0	83	10	2	0

ROCHESTER, N. Y.

[H = 523 ft.; h_t = 81 ft.; h_r = 78 ft.; h_a = 90 ft.]

Month.	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.
January	10.5	SW.	38	SW.	0	2	3	2	5	4	37	7	2	0	3	12	16	20	15	15	0	0	20	0	30	0	0
February	13.1	SW.	37	W.	0	0	1	0	1	3	38	10	3	0	8	10	10	18	13	16	0	0	17	0	27	0	0
March	9.9	SW.	34	SW.	0	0	9	4	4	6	13	15	11	0	16	6	9	16	10	13	0	1	9	0	28	0	0
April	7.7	NE.	28	NW.	0	3	14	7	4	5	7	8	12	0	14	8	8	12	10	2	0	1	0	0	8	0	0
May	7.7	SW.	28	SW.	0	1	6	4	1	3	26	12	7	2	14	11	6	9	8	0	1	0	0	3	1	4	0
June	5.4	SW.	24	SW.	0	0	12	3	4	7	15	11	7	1	16	10	4	8	6	0	0	0	0	5	0	5	0
July	6.5	SW.	28	SW.	0	5	7	3	5	7	12	9	12	3	9	16	6	9	8	0	0	1	0	2	0	4	0
August	6.4	SW.	36	W.	0	0	5	0	2	7	23	17	5	3	14	11	6	16	10	0	0	0	0	1	0	7	0
September	7.0	SW.	32	SW.	0	2	5	1	8	4	24	8	6	2	15	8	7	7	7	0	1	0	0	5	0	5	0
October	8.6	SW.	38	SW.	0	3	3	0	3	9	26	11	6	1	13	9	9	13	8	4	0	0	0	0	8	0	2
November	7.6	SW.	37	SW.	0	1	3	3	6	10	17	13	7	0	7	10	13	13	11	5	0	0	3	0	14	0	0
December	8.1	SW.	52	SW.	1	1	0	5	10	11	18	13	4	0	7	11	13	16	15	10	0	0	11	0	20	0	0
Year	8.2	SW.	52	SW.	1	18	68	32	53	76	256	134	82	11	136	122	107	157	121	69	2	3	60	16	136	25	2

ROSEBURG, OREG.

[H = 523 ft.; h_t = 56 ft.; h_r = 48 ft.; h_a = 67 ft.]

Month.	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.
January	3.6	SE.	24	SW.	0	4	8	3	8	11	11	5	5	7	8	12	11	19	13	0	0	7	0	0	15	0	0
February	2.5	NW.	14	SE.	0	5	7	7	6	4	5	10	10	2	11	7	10	10	7	0	0	9	0	0	9	0	0
March	4.3	SW.	36	SW.	0	5	9	7	8	4	10	8	8	3	8	10	13	11	11	1	0	4	0	0	10	0	0
April	4.4	NW.	30	SE.	0	9	3	8	2	7	7	4	15	5	11	6	13	14	9	0	0	2	0	0	2	0	0
May	4.4	NW	24	SW.	0	8	8	7	3	6	7	4	15	4	9	5	17	13	9	0	0	2	0	0	1	0	0
June	5.0	NW.	22	NW.	0	13	10	6	4	0	0	3	19	5	18	8	4	3	2	0	0	3	0	2	0	0	0
July	4.9	NW.	24	N.	0	14	10	1	2	0	4	2	28	1	18	5	8	2	2	0	0	0	0	2	0	0	0
August	3.9	N.	18	NW.	0	20	11	4	4	0	0	1	14	8	29	1	1	1	0	0	0	0	0	1	0	0	0
September	3.1	NW.	17	W.	0	15	7	3	0	5	4	4	15	7	11	11	8	10	7	0	1	5	0	0	0	1	0
October	2.3	W.	16	N.	0	8	7	2	2	0	5	16	11	11	24	4	3	0	0	0	0	16	0	0	0	0	0
November	2.9	SE.	24	S.	0	1	3	7	16	9	3	7	12	2	16	7	7	11	10	0	0	5	0	0	13	0	0
December	3.3	S.	20	SW.	0	3	0	11	10	12	13	8	4	1	2	10	19	26	22	3	0	9	0	0	9	0	0
Year	3.7	NW.	36	SW.	0	105	83	66	65	58	69	72	156	56	165	86	114	120	92	4	1	62	0	5	59	1	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

SACRAMENTO, CAL.

[λ = 38° 35′ N.; φ = 121° 30′ W.; gravity corr., —0.02.]

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	29.93	30.28	29.28	43.1	48.4	52.0	40.8	46.4	60	30	41	41	92	78	.262	.264	8.42	2.66	5.5	6.1	6.7
February	30.04	30.35	29.75	47.8	59.1	61.4	45.4	53.4	68	39	45	45	89	60	.297	.301	1.84	1.34	2.3	4.0	3.9
March	29.97	30.19	29.68	47.0	59.4	62.1	44.9	53.5	70	34	43	42	87	54	.283	.278	1.20	.42	4.1	4.5	4.9
April	29.99	30.35	29.81	50.2	65.8	68.3	48.4	58.4	86	41	44	45	81	50	.293	.310	.86	.60	3.0	4.0	4.2
May	29.88	30.08	29.72	54.2	71.4	74.4	52.9	63.6	94	46	48	48	81	46	.339	.341	.51	.16	2.2	2.4	2.6
June	29.83	30.06	29.66	60.7	83.2	86.7	59.1	72.9	102	50	49	50	67	33	.347	.372	.00	.00	.1	1.0	.7
July	29.82	29.99	29.64	57.9	81.3	85.6	57.2	71.4	98	51	53	56	82	43	.398	.447	.04	.04	1.1	1.2	1.4
August	29.78	29.93	29.57	58.0	83.8	87.7	57.4	72.6	99	51	51	56	79	40	.379	.458	T.	T.	1.5	2.0	2.3
September	29.84	30.00	29.67	55.4	75.9	80.1	53.8	67.0	95	46	49	49	80	42	.352	.360	1.26	.73	2.0	1.8	1.9
October	29.89	30.11	29.61	53.9	73.5	77.4	52.0	64.7	88	44	47	51	81	49	.331	.380	.17	.14	1.5	2.5	2.8
November	30.00	30.39	29.63	45.5	59.6	63.3	42.9	53.1	75	33	38	43	78	57	.240	.288	1.54	.52	1.6	3.4	3.3
December	30.15	30.47	29.64	39.8	48.6	51.9	37.6	44.8	65	28	37	38	88	69	.221	.236	1.54	.47	2.0	4.8	6.2
Year	29.93	30.47	29.28	51.1	67.5	70.9	49.4	60.2	102	28	45	47	82	52	.312	.336	17.38	2.66	2.2	3.1	3.4

ST. LOUIS, MO.

[λ = 38° 38′ N.; φ = 90° 12′ W.; gravity corr., — 0.02.]

Month.	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.
January	29.48	30.03	28.61	22.1	28.1	33.5	19.0	26.2	64	— 8	16	18	77	66	.104	.114	1.65	0.76	5.4	2.6	4.1
February	29.62	29.97	28.99	19.5	28.3	32.1	18.1	25.1	70	—12	14	18	77	66	.095	.121	.43	.14	4.6	3.1	4.2
March	29.45	29.80	29.09	37.9	47.5	53.0	35.2	44.1	85	15	29	33	72	59	.174	.204	2.82	.86	4.9	4.6	4.5
April	29.37	29.67	28.89	53.2	62.7	69.3	50.3	59.8	89	35	44	47	72	58	.294	.329	.46	.14	4.9	5.6	4.4
May	29.43	29.74	29.19	60.7	70.4	76.1	57.0	66.6	94	40	52	51	72	52	.411	.408	3.16	1.76	3.0	3.5	4.1
June	29.46	29.67	29.21	72.4	80.0	86.1	68.1	77.1	96	60	62	61	72	54	.574	.541	2.46	.97	4.7	5.1	5.1
July	29.43	29.67	29.06	71.1	78.7	84.6	68.1	76.4	96	60	64	65	79	64	.609	.626	7.26	2.92	5.5	6.2	5.8
August	29.39	29.60	29.20	72.2	81.2	86.5	69.3	77.9	94	58	65	65	78	60	.616	.627	2.08	.62	4.0	3.7	4.0
September	29.47	29.77	29.16	66.5	77.0	83.4	64.8	74.1	95	42	62	63	85	63	.578	.615	2.01	.66	3.5	2.0	3.4
October	29.54	29.86	29.15	45.8	57.5	63.3	43.8	53.6	77	30	36	34	70	43	.230	.211	.23	.14	2.7	1.4	3.0
November	29.53	29.85	28.77	38.6	45.3	50.2	36.2	43.2	76	16	32	35	79	68	.192	.212	3.98	1.63	6.7	6.2	6.5
December	29.44	29.82	28.81	34.6	37.9	43.2	30.9	37.0	61	7	28	30	78	72	.173	.183	4.66	1.71	6.7	5.8	6.4
Year	29.47	30.03	28.61	49.6	57.9	63.4	46.7	55.1	96	—12	42	43	76	60	.338	.349	31.20	2.92	4.7	4.2	4.6

ST. PAUL, MINN.

[λ = 44° 58′ N.; φ = 93° 03′ W.; gravity corr., 0.]

Month.	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.
January	29.11	29.82	28.40	3.1	8.8	14.5	—2.4	6.0	34	—22	—2	2	78	71	.042	.049	1.05	0.36	4.5	3.8	5.1
February	29.22	29.70	28.40	4.8	15.1	20.3	1.1	10.7	53	—26	0	7	79	69	.061	.075	.42	.28	3.8	4.3	4.3
March	29.10	29.50	28.52	21.5	32.7	37.5	18.8	28.2	60	— 7	12	13	64	43	.080	.088	.85	.53	4.7	4.1	4.7
April	29.08	29.34	28.57	44.2	57.6	63.1	41.5	52.3	76	28	34	36	68	47	.198	.222	2.09	1.14	5.8	5.2	5.6
May	29.03	29.44	28.50	54.3	61.8	68.6	48.6	58.6	92	31	45	45	71	58	.323	.333	2.89	.53	5.1	6.4	6.3
June	29.09	29.34	28.76	61.6	71.8	76.4	57.4	66.9	85	45	55	55	79	57	.432	.447	4.18	1.20	5.5	4.4	5.4
July	29.09	29.35	28.74	63.5	75.4	81.1	59.0	70.0	94	45	55	54	75	50	.447	.434	4.12	3.19	4.2	3.6	4.6
August	29.03	29.38	28.75	61.6	74.1	81.2	58.5	69.8	94	45	55	54	80	51	.444	.430	2.59	.99	2.8	4.3	3.8
September	29.00	29.44	28.52	57.1	68.0	75.3	54.9	65.1	96	33	51	51	80	57	.398	.400	4.75	3.19	4.2	4.8	5.0
October	29.12	29.54	28.62	36.1	46.6	53.6	33.8	43.7	73	15	27	28	70	50	.154	.166	.09	.04	3.8	2.8	4.5
November	29.14	29.56	28.70	26.2	32.9	38.9	22.4	30.6	67	— 5	22	24	83	71	.127	.135	.85	.36	5.1	5.8	6.1
December	29.03	29.48	28.40	18.2	22.9	27.8	14.4	21.1	44	— 4	14	16	82	74	.087	.097	.38	.21	5.5	5.3	5.7
Year	29.09	29.82	28.40	37.7	47.3	53.2	34.0	43.6	96	—26	31	32	76	58	.233	.240	24.26	3.19	4.6	4.6	5.1

ST. VINCENT, MINN.

[λ = 48° 56′ N.; φ = 97° 14′ W.; gravity corr., +0.01.]

Month.	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.
January	29.17	29.80	28.69	—11.0	—4.3	3.1	—15.5	—6.2	28	—32	—14	—6	86	90	.025	.035	0.77	0.20	3.5	3.9	4.2
February	29.26	30.02	28.38	—2.1	4.0	14.6	—9.2	2.7	52	—41	—5	2	85	89	.056	.062	.44	.15	5.1	3.0	4.7
March	29.11	29.55	28.52	10.3	21.2	30.2	6.9	18.6	56	—24	8	17	90	84	.078	.104	.20	.14	2.2	3.3	3.5
April	29.13	29.42	28.64	38.8	52.8	62.9	33.6	48.2	80	20	34	35	83	53	.198	.217	1.75	.50	5.0	3.9	5.1
May	29.03	29.54	28.37	47.2	59.9	67.4	40.9	54.2	81	23	40	41	78	54	.261	.275	3.46	1.02	6.6	4.4	5.4
June	29.09	29.39	28.77	53.2	62.9	69.2	47.3	58.2	82	36	50	54	88	73	.360	.419	4.15	1.40	5.4	5.2	6.4
July	29.10	29.39	28.60	57.7	68.3	75.0	51.4	63.2	87	38	55	60	91	76	.438	.531	3.36	.74	3.5	4.8	4.1
August	29.03	29.44	28.65	53.0	66.4	76.2	48.5	62.4	90	32	51	54	92	65	.376	.426	2.61	1.08	3.0	2.4	3.8
September	29.00	29.53	28.38	44.0	56.2	67.4	39.8	53.6	88	22	40	45	86	68	.256	.306	1.20	.54	3.9	5.0	5.4
October	29.11	29.56	28.58	30.0	39.1	51.4	26.5	39.0	79	9	28	30	90	73	.154	.171	.74	.34	5.2	3.7	5.6
November	29.15	29.69	28.63	14.8	19.6	27.7	11.1	19.4	48	—16	13	18	93	92	.092	.107	1.21	.44	6.0	5.4	6.2
December	28.98	29.64	28.22	6.0	11.4	20.4	— .1	10.2	38	—22	4	9	91	90	.063	.075	.71	.26	3.7	4.0	4.8
Year	29.10	30.02	28.22	28.5	38.1	47.1	23.4	35.3	90	—41	25	30	88	76	.196	.227	20.60	1.40	4.4	4.1	4.9

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31 1895—Continued.

SACRAMENTO, CAL.

[H=71 ft.; h_t=106 ft.; h_r=100 ft.; h_a=117 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a.m. and 8 p.m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		Mi.																								
January	11.3	SE.	48	SE.	5	17	3	0	19	16	5	0	2	0	6	6	19	15	11	0	1	3	0	0	1	0	0
February	6.6	N.	30	SE.	0	12	9	2	12	4	8	0	9	0	14	6	8	4	3	0	0	3	0	0	0	0	0
March	8.2	SE.	36	SE.	0	3	5	3	19	6	15	1	10	0	9	17	5	6	6	0	0	0	0	0	0	0	0
April	8.7	SW.	28	NW.	0	7	2	2	9	12	16	1	11	0	11	15	4	4	4	0	1	0	0	0	0	2	0
May	10.6	SW.	44	NW.	1	7	1	0	9	14	24	0	6	1	18	11	2	4	4	0	0	0	0	2	0	0	0
June	10.9	SW.	36	NW.	0	1	0	0	7	12	22	0	18	0	29	1	0	0	0	0	0	0	0	11	0	0	0
July	10.0	SW.	24	SW.	0	0	2	0	6	20	31	0	3	0	27	3	1	1	1	0	0	0	0	7	0	0	0
August	8.2	SW.	20	S.	0	0	2	0	12	19	27	2	0	0	23	4	4	0	0	0	0	0	0	11	0	0	0
September	8.6	SW.	36	NW.	0	12	4	0	11	12	18	0	2	1	25	1	4	4	0	0	0	0	0	5	0	0	0
October	6.7	S.	36	W.	0	7	3	3	10	17	8	0	13	1	20	9	2	3	1	0	0	1	0	0	0	0	0
November	7.9	SE.	48	N.	1	14	6	5	15	11	3	0	6	0	19	7	4	7	6	0	0	1	0	0	0	0	0
December	8.0	SE.	42	S.	1	7	6	5	15	12	3	0	14	0	9	11	11	8	7	0	0	10	0	0	3	0	0
Year	8.8	SW.	48	N. SE.	8	87	43	20	144	155	180	4	94	3	210	91	64	56	43	0	2	18	0	36	4	2	0

ST. LOUIS, MO.

[H=571 ft.; h_t=110 ft.; h_r=100 ft.; h_a=210 ft.]

Month.	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.
January	12.8	NW.	56	SW.	2	11	6	2	10	6	6	12	9	0	18	5	8	11	7	7	0	2	12	0	26	0	0
February	11.6	NW.	36	NW.	0	8	4	3	5	6	9	11	10	0	14	7	7	10	5	9	0	0	16	0	21	0	0
March	13.6	NW.	46	S.	1	7	10	1	11	12	5	6	10	0	17	6	8	13	8	5	0	1	3	0	15	1	0
April	11.6	SE.	43	S.	2	10	9	6	11	5	4	3	10	2	15	8	7	10	4	0	0	0	0	0	0	2	0
May	11.8	S.	39	W.	0	4	5	2	15	20	9	3	4	0	14	12	5	8	5	0	0	0	0	4	0	7	0
June	8.8	SE.	48	W.	1	8	3	4	12	11	6	5	9	2	11	8	11	12	10	0	0	0	0	8	0	5	0
July	8.9	S.	39	NE.	0	13	7	4	8	14	5	4	5	2	6	17	8	11	10	0	0	0	0	7	0	7	0
August	8.2	S.	37	SW.	0	6	6	4	3	20	8	7	5	3	15	12	4	6	5	0	0	1	0	9	0	4	0
September	10.2	S	41	NW.	1	6	4	3	10	19	5	3	9	1	16	9	5	4	4	0	0	0	0	11	0	4	0
October	9.4	NW.	36	SW.	0	6	7	3	4	13	5	3	20	1	20	6	5	3	2	0	1	1	0	0	2	1	0
November	11.9	SE.	42	NW.	1	9	5	4	13	10	5	4	9	1	7	7	16	10	8	1	1	0	2	0	7	0	0
December	12.4	S.	37	S.	0	10	1	3	12	15	4	5	12	0	7	10	14	12	10	5	0	2	6	0	15	1	0
Year	10.9	S.	56	SW.	8	98	67	39	114	151	71	66	112	12	160	107	98	110	78	27	2	7	39	39	86	32	0

ST. PAUL, MINN.

[H=850 ft.; h_t=114 ft.; h_r=93 ft.; h_a=124 ft.]

Month.	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.
January	8.2	NW.	36	W.	0	0	3	3	15	1	12	14	14	0	12	6	13	11	6	11	0	1	29	0	31	0	0
February	7.7	SW.	29	NW.	0	1	2	0	7	3	15	13	10	5	13	8	7	6	3	4	0	1	20	0	26	0	0
March	9.9	W.	38	W.	0	3	5	4	10	5	13	9	12	1	14	8	9	7	3	4	0	0	10	0	26	1	0
April	7.8	SE.	33	W.	0	2	9	10	17	0	2	0	18	2	10	11	9	7	7	0	0	0	0	0	3	4	0
May	8.5	SE.	36	S.	0	0	4	4	22	7	6	1	17	1	5	13	13	16	11	0	2	0	0	1	1	8	0
June	7.4	SE.	32	SW.	0	0	2	3	24	3	9	9	9	1	10	12	8	14	7	0	1	1	0	0	0	11	0
July	6.3	SE.	36	SW.	0	2	6	3	17	4	6	8	16	0	12	13	6	4	4	0	1	0	0	3	0	3	0
August	6.5	NW.	36	NW.	0	3	3	2	14	3	5	10	20	2	14	13	4	11	9	0	1	0	0	3	0	9	0
September	8.4	SE.	55	SE.	1	2	2	0	26	3	12	7	6	2	8	17	5	10	7	0	1	0	0	7	0	2	2
October	8.9	W.	36	NW.	0	1	1	3	13	4	9	21	10	0	16	5	10	4	1	3	0	1	1	0	13	0	3
November	7.3	SE.	25	SE.	0	2	3	0	22	4	6	8	15	0	5	13	12	10	5	7	0	0	9	0	23	0	0
December	7.8	SE.	35	W.	0	2	0	2	17	6	6	12	16	1	9	10	12	5	3	4	0	2	20	0	31	0	0
Year	7.9	SE.	55	SE.	1	18	40	34	204	43	101	112	163	15	128	129	108	105	66	33	6	6	89	14	154	38	5

ST. VINCENT, MINN.

[H=794 ft.; h_t=16 ft.; h_r=4 ft.; h_a=31 ft.]

Month.	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.
January	9.3	N.	32	S.	0	16	0	3	6	8	5	8	15	1	15	7	9	10	8	10	0	0	31	0	31	0	1
February	9.3	N.	36	N.	0	16	0	1	3	11	3	9	13	0	11	9	8	5	5	5	0	0	22	0	28	0	3
March	11.5	N.	37	S.	0	18	1	6	5	9	4	11	8	0	17	9	5	4	2	4	0	0	15	0	29	0	3
April	9.5	N.	38	SE.	0	18	2	10	11	8	0	4	7	0	12	6	12	8	8	0	0	0	0	0	13	3	8
May	9.5	N.	36	S.	0	19	4	3	12	7	7	5	5	0	10	11	10	10	9	1	3	0	0	0	5	4	0
June	8.5	NW.	30	S.	0	11	3	2	7	7	3	11	15	1	3	18	9	19	15	0	0	0	0	0	0	1	1
July	6.5	SE.	32	SE.	0	11	8	2	15	7	3	6	9	1	16	8	7	12	10	0	0	0	0	0	0	6	4
August	7.1	NW.	28	N.	0	9	2	1	8	8	7	8	18	1	15	12	4	9	8	0	0	0	0	0	0	9	0
September	8.9	NW.	36	NW.	0	1	6	6	7	8	3	9	20	0	9	11	10	9	8	0	0	0	0	0	5	6	4
October	10.1	N.	40	N.	1	17	1	1	8	9	5	6	15	0	7	14	10	6	3	4	0	0	4	0	21	0	3
November	8.9	NW.	30	S.	0	12	3	2	4	8	6	11	14	0	8	10	12	9	8	7	0	0	17	0	29	0	2
December	9.2	S.	32	S.	0	6	0	1	8	24	4	5	13	1	7	19	5	10	10	9	0	0	24	0	30	0	3
Year	9.0	N.	40	N.	1	154	30	38	94	114	50	93	152	5	130	134	101	111	94	40	3	0	113	0	191	39	32

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

SALT LAKE CITY, UTAH.

[λ = 40° 46′ N.; φ = 111° 54′ W.; gravity corr., — 0.01.]

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	25.59	26.03	25.11	26.4	30.1	36.9	22.5	29.7	52	0	18	24	70	76	.102	.128	1.32	0.29	7.2	6.2	8.0
February	25.74	26.12	25.38	25.1	32.4	38.2	21.9	30.0	54	3	19	24	77	70	.109	.130	.85	.24	5.0	6.1	6.3
March	25.62	25.94	25.19	34.7	46.1	50.4	31.2	40.8	76	16	23	28	62	51	.121	.150	.81	.32	4.4	6.3	6.1
April	25.64	26.01	25.26	43.6	58.3	62.9	39.5	51.2	79	23	27	25	54	32	.150	.138	.73	.44	3.1	5.5	3.9
May	25.57	25.99	25.14	51.4	65.0	68.7	47.1	57.9	83	33	36	32	59	33	.216	.187	2.29	.94	4.2	5.3	5.5
June	25.67	25.93	25.29	54.8	73.1	75.7	51.3	63.5	90	38	38	35	55	27	.231	.211	.99	.70	2.9	4.5	4.5
July	25.63	25.78	25.39	64.6	81.8	84.9	60.3	72.6	95	52	41	40	45	25	.266	.257	.42	.19	3.4	4.0	4.6
August	25.62	25.83	25.31	65.1	84.6	88.4	61.3	74.8	97	52	43	39	45	20	.279	.241	.02	.02	2.4	3.9	4.8
September	25.63	25.95	25.34	56.1	70.9	75.7	51.9	63.8	90	29	37	38	52	34	.222	.235	.95	.75	3.0	4.2	4.3
October	25.72	25.91	25.49	47.0	58.9	66.3	42.3	54.3	81	32	33	39	59	49	.189	.241	.24	.19	2.7	3.1	3.9
November	25.70	26.10	25.10	33.5	39.0	46.5	29.0	37.8	66	20	26	30	74	70	.141	.164	2.44	.77	5.1	6.0	6.6
December	25.77	26.11	25.16	23.8	27.8	33.5	19.3	26.4	46	2	18	21	76	77	.097	.116	.89	.19	6.3	7.0	8.1
Year	25.66	26.12	25.10	43.8	55.7	60.7	39.8	50.2	97	0	30	31	61	47	.177	.183	11.95	.94	4.1	5.2	5.6

SAN ANTONIO, TEX.

[λ = 29° 72′ N.; φ = 98° 28′ W.; gravity corr., — 0.04.]

January	29.34	29.80	28.87	47.1	57.9	64.0	44.5	54.2	79	25	35	36	65	47	.249	.244	1.24	0.94	5.1	4.8	5.3
February	29.47	29.91	29.03	37.5	48.6	55.1	35.2	45.2	79	11	32	33	81	57	.220	.221	3.97	2.60	6.2	6.1	6.4
March	29.31	29.69	28.96	54.6	67.1	73.2	51.9	62.6	85	33	48	46	80	50	.375	.340	2.24	.71	7.3	5.6	6.1
April	29.26	29.57	28.98	59.8	76.2	82.3	57.6	70.0	91	47	48	48	70	42	.380	.375	.29	.18	4.9	4.2	4.9
May	29.23	29.64	29.02	66.9	77.2	82.2	63.5	72.8	90	49	62	61	85	60	.569	.558	6.66	2.81	7.4	5.7	6.2
June	29.28	29.47	29.09	74.2	83.3	89.3	71.0	80.2	96	61	70	68	86	61	.728	.684	2.09	1.10	7.8	5.3	6.4
July	29.27	29.40	29.05	76.2	89.7	95.6	73.8	84.7	99	70	72	66	86	47	.780	.636	1.07	1.07	6.8	3.5	4.8
August	29.23	29.42	29.08	76.2	89.7	95.7	73.3	84.5	103	69	70	62	82	42	.741	.565	1.90	.79	6.5	5.5	5.5
September	29.29	29.52	29.08	72.4	83.5	90.9	70.7	80.8	98	56	68	64	86	54	.706	.622	1.25	.56	6.1	5.3	5.6
October	29.36	29.56	29.04	58.7	72.3	80.0	57.5	68.8	94	49	48	47	71	43	.367	.340	1.43	1.18	4.2	4.0	4.9
November	29.40	29.65	29.09	50.6	60.1	67.5	48.4	58.0	80	32	45	46	82	63	.327	.343	3.38	1.56	6.3	5.1	6.4
December	29.40	29.75	29.01	46.5	56.9	65.0	43.7	54.4	76	26	36	35	67	46	.248	.244	.55	.23	4.4	3.0	3.7
Year	29.32	29.91	28.87	60.1	71.9	78.4	57.6	68.0	103	11	53	51	78	51	.474	.431	26.07	2.81	6.1	4.8	5.5

SAN DIEGO, CAL.

[λ = 32° 43′ N.; φ = 117° 10′ W.; gravity corr., — 0.03.]

January	29.94	30.21	29.64	48.3	56.6	61.2	45.1	53.2	77	36	42	47	81	74	.280	.332	7.33	2.15	3.9	4.7	4.2
February	30.00	30.32	29.83	50.3	59.3	64.6	47.1	55.8	82	39	44	47	80	68	.290	.331	.53	.29	3.2	4.1	3.4
March	29.97	30.12	29.84	50.2	58.1	62.8	47.9	55.4	74	38	47	48	88	71	.324	.344	1.43	.70	5.8	5.1	3.8
April	29.96	30.11	29.79	52.0	61.3	65.9	49.8	57.8	81	44	49	51	89	69	.348	.373	.11	.08	6.1	5.2	4.2
May	29.87	30.05	29.78	58.1	63.2	67.3	56.5	61.9	80	51	53	53	84	70	.405	.405	.19	.15	8.0	5.4	4.6
June	29.88	29.95	29.81	59.2	65.2	68.6	57.5	63.0	77	51	55	55	86	70	.430	.436	.00	.00	8.6	3.7	3.6
July	29.88	29.96	29.80	62.3	67.6	70.6	60.7	65.6	74	57	57	58	85	72	.474	.486	.00	.00	9.4	2.5	3.1
August	29.84	29.98	29.72	63.7	68.8	72.5	61.7	67.1	78	54	59	60	85	73	.501	.510	.00	.00	8.5	2.2	3.1
September	29.82	29.91	29.74	62.6	70.1	75.1	59.7	67.4	90	54	54	57	77	66	.436	.474	.01	.01	7.3	1.9	2.8
October	29.88	30.04	29.62	61.0	66.5	70.6	58.2	64.4	84	54	56	57	84	73	.449	.468	.27	.22	6.0	3.1	4.4
November	29.94	30.20	29.69	53.4	62.8	68.7	50.1	59.4	85	38	41	49	65	65	.263	.360	1.19	.46	1.2	3.6	3.0
December	30.03	30.34	29.84	49.3	59.3	65.1	44.8	55.0	79	34	32	42	56	57	.195	.284	.27	.15	.5	3.2	2.6
Year	29.92	30.34	29.62	55.9	63.2	67.8	53.3	60.5	90	34	49	52	80	69	.366	.400	11.33	2.15	5.7	3.7	3.6

SANDUSKY, OHIO.

[λ = 41° 25′ N.; φ = 82° 40′ W.; gravity corr., — 0.01]

January	29.31	29.90	28.60	19.7	23.5	28.6	15.5	22.0	57	— 5	16	18	84	80	.099	.108	2.39	0.60	8.0	6.4	8.8
February	29.40	29.82	28.75	16.1	22.4	26.5	13.2	19.8	64	— 6	12	16	84	75	.084	.100	.36	.13	6.7	5.2	7.3
March	29.35	29.72	28.80	28.4	32.5	38.4	23.8	31.1	62	7	22	25	76	72	.119	.135	1.23	.53	7.5	5.9	7.1
April	29.34	29.89	28.90	45.9	49.6	56.8	40.8	48.8	82	28	37	39	73	68	.229	.241	2.25	1.18	5.1	5.8	5.8
May	29.37	29.64	29.00	58.7	61.4	69.7	51.3	60.5	93	35	48	50	69	66	.366	.387	2.00	.52	4.5	3.9	5.5
June	29.40	29.73	29.15	69.5	72.1	79.9	63.4	71.6	93	46	59	60	70	66	.505	.517	1.61	.78	4.6	4.1	4.7
July	29.34	29.66	29.02	68.7	73.5	79.8	63.5	71.6	98	52	57	56	66	57	.471	.469	1.48	.66	3.7	5.0	5.3
August	29.29	29.49	29.02	69.5	73.4	81.0	64.6	72.8	93	52	59	59	70	63	.512	.522	3.32	1.25	4.3	3.7	4.5
September	29.37	29.60	28.99	64.6	69.6	77.0	60.7	68.8	95	41	54	54	70	61	.444	.449	2.23	1.64	5.4	3.4	5.3
October	29.38	29.84	28.96	43.0	48.5	54.8	39.7	47.2	70	25	32	33	64	58	.186	.201	1.67	1.24	3.5	2.9	4.3
November	29.44	29.83	28.84	37.2	41.1	47.4	34.2	40.8	75	14	30	33	75	75	.175	.198	4.73	1.71	7.0	6.6	7.5
December	29.35	29.81	28.70	31.6	33.8	38.4	27.5	33.0	62	8	27	28	82	81	.155	.167	3.55	.85	7.8	6.4	7.3
Year	29.36	29.90	28.60	46.1	50.1	56.5	41.5	49.0	98	— 6	38	39	74	68	.279	.291	26.82	1.71	5.7	4.9	6.1

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

SALT LAKE CITY, UTAH.

[H=4,345 ft.; h_t=83 ft.; h_r=75 ft.; h_a=90 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	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	6.1	SE.	48	S.	1	1	1	2	20	13	4	12	9	0	4	6	21	15	10	14	0	0	6	0	27	0	0
February	4.4	SE.	24	W.	0	0	3	2	10	10	6	13	11	1	10	4	14	10	7	7	0	0	7	0	24	0	0
March	7.9	SE.	40	S.	1	3	3	6	14	9	7	8	11	1	9	9	13	7	5	5	0	0	0	0	21	0	0
April	7.8	NW.	38	W.	0	5	2	2	15	3	3	4	26	0	15	5	10	6	3	2	0	0	0	0	0	5	1
May	7.4	NW.	36	S.	0	4	6	6	15	6	3	4	18	0	10	8	13	10	9	0	0	0	0	0	0	2	0
June	6.3	NW.	34	S.	0	2	8	5	13	2	4	4	21	1	16	6	8	6	4	0	1	0	0	1	0	1	0
July	6.0	SE.	28	SW.	0	4	4	8	21	7	0	2	14	2	15	9	7	5	5	0	0	0	0	10	0	3	0
August	5.6	SE.	36	NW.	0	1	1	4	23	7	2	0	24	0	14	14	3	1	0	0	0	0	0	14	0	0	0
September	7.1	NW.	38	S.	0	4	5	6	16	4	1	4	19	1	16	7	7	3	2	1	0	0	0	0	2	0	0
October	5.3	NW.	28	E.	0	3	3	4	17	4	3	12	15	1	18	8	5	3	2	0	0	0	0	0	1	0	0
November	4.9	SE.	30	S.	0	2	4	7	14	13	4	4	12	0	8	6	16	9	8	7	0	0	3	0	19	0	0
December	5.1	SE.	44	N.	1	6	2	11	18	8	4	8	4	1	3	7	21	11	9	11	0	1	10	0	31	0	0
Year	6.2	SE.	48	S.	3	35	42	63	196	86	41	75	184	8	138	89	138	86	64	47	1	1	26	25	130	7	0

SAN ANTONIO, TEX.

[H=704 ft.; h_t=95 ft.; h_r=83 ft.; h_a=104 ft.]

Month.	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.
January	6.6	N.	36	N.	0	16	11	7	8	7	2	3	3	5	6	17	8	6	4	0	0	5	0	0	5	1	0
February	8.6	N.	38	N.	0	20	7	7	7	1	2	4	6	2	8	7	13	7	6	1	0	2	4	0	12	0	0
March	8.0	SE.	34	N.	0	14	6	12	15	6	4	0	3	2	8	10	13	11	9	0	0	1	0	0	0	2	0
April	7.8	SE.	25	NW.	0	9	3	9	20	7	0	1	10	1	9	14	7	3	3	0	0	1	0	3	0	2	0
May	6.7	E.	36	N.	0	13	6	17	15	9	2	0	0	0	2	21	8	11	10	0	0	1	0	1	0	7	0
June	7.0	SE.	24	SE.	0	5	7	9	22	17	0	0	0	0	3	18	9	11	7	0	0	0	0	14	0	4	0
July	9.4	SE.	44	N.	1	1	0	7	35	18	0	0	1	0	6	24	1	2	2	0	0	0	0	31	0	1	0
August	7.7	SE.	35	N.	0	5	10	12	20	7	2	1	0	5	8	15	8	5	4	0	0	0	0	28	0	6	0
September	7.6	E.	32	N.	0	14	2	15	14	11	1	0	0	3	5	17	8	8	5	0	0	1	0	23	0	2	0
October	7.6	N.	27	N.	0	38	5	5	7	4	1	1	1	0	11	14	6	4	2	0	0	1	0	2	0	2	0
November	7.6	N.	36	N.	0	17	5	3	16	2	3	0	14	0	8	8	14	13	9	0	0	1	0	0	0	0	0
December	10.1	N.	46	N.	1	22	2	2	15	9	2	4	6	0	18	7	6	6	5	0	0	0	0	0	5	0	0
Year	7.9	SE.	46	N.	2	174	64	105	194	98	19	14	44	18	92	172	101	87	66	1	0	13	4	102	22	27	0

SAN DIEGO, CAL.

[H=69 ft.; h_t=59 ft.; h_r=52 ft.; h_a=70 ft.]

Month.	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.
January	5.4	NW.	22	S.	0	6	16	3	2	5	4	7	15	4	17	6	8	11	9	0	0	1	0	0	0	0	0
February	5.0	W.	25	W.	0	11	4	0	0	1	7	10	13	10	15	7	6	5	3	0	0	2	0	0	0	0	0
March	5.3	NW.	24	S.	0	5	7	0	1	4	1	18	13	13	16	8	7	9	8	0	0	0	0	0	0	0	0
April	5.2	W.	16	W.	0	2	4	3	0	1	6	19	10	15	15	11	4	2	1	0	0	1	0	0	0	0	0
May	5.8	W.	23	W.	0	0	2	4	2	7	16	17	9	5	14	11	6	2	2	0	0	1	0	0	0	0	0
June	5.7	SW.	17	NW.	0	3	5	1	1	4	20	15	8	3	21	6	3	0	0	0	0	0	0	0	0	0	0
July	5.8	W.	16	NW.	0	3	3	0	1	2	15	19	14	5	27	2	2	0	0	0	0	0	0	0	0	0	0
August	5.4	W.	16	W.	0	4	5	0	0	1	12	28	9	3	22	8	1	0	0	0	0	0	0	0	0	0	0
September	5.1	NW.	18	NW.	0	6	8	2	1	2	3	15	21	2	27	2	1	1	0	0	0	0	0	0	0	0	0
October	5.2	NW.	16	NW.	0	9	10	1	1	6	5	5	24	1	16	12	3	2	2	0	0	1	0	0	0	1	0
November	5.3	NE.	26	NE.	0	4	16	6	0	1	4	11	14	4	21	4	5	8	8	0	0	0	0	0	0	0	0
December	4.2	NE.	18	NW.	0	6	17	7	0	1	0	5	21	5	24	6	1	2	2	0	0	0	0	0	0	0	0
Year	5.3	NW.	26	NE.	0	59	97	27	9	35	93	169	171	70	235	83	47	42	35	0	0	6	0	0	0	1	0

SANDUSKY, OHIO.

[H=629 ft.; h_t=62 ft.; h_r=55 ft.; h_a=74 ft.]

Month.	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.
January	10.3	W.	40	NW.	1	1	1	5	4	6	18	20	7	0	0	5	26	14	12	9	0	2	18	0	29	1	0
February	10.6	W.	36	NW.	0	3	2	3	0	1	14	19	14	0	1	11	16	9	4	7	0	0	16	0	26	0	0
March	11.2	SW.	36	SW.	0	7	10	13	3	4	14	7	4	0	3	11	17	9	4	6	0	0	6	0	29	0	1
April	9.1	E.	35	NW.	0	6	8	19	6	5	4	7	5	0	7	15	8	10	10	1	0	1	0	0	3	3	0
May	8.3	S.	38	NW.	0	3	4	11	9	12	10	5	6	2	7	15	9	9	8	0	1	0	0	2	0	3	0
June	7.0	E.	45	NW.	1	1	4	18	5	12	4	8	8	0	12	13	5	10	7	0	0	0	0	2	0	3	0
July	7.4	S.	50	NW.	1	3	7	9	4	21	7	2	9	0	5	23	3	6	5	0	0	0	0	3	0	4	0
August	7.0	SW.	36	N.	0	5	6	12	6	8	12	7	5	0	13	10	8	12	10	0	1	0	0	3	0	7	0
September	8.5	S.	34	NW.	0	1	6	7	4	14	11	11	6	0	11	8	11	8	6	0	0	0	0	5	0	2	0
October	10.0	SW.	40	NW.	1	5	4	4	2	4	21	11	11	0	15	11	5	6	5	0	0	0	0	0	6	0	0
November	8.7	S.	41	S.	2	6	4	4	4	15	14	5	8	0	4	5	21	12	11	3	0	0	2	0	12	0	0
December	9.8	SW.	32	NW.	0	2	8	2	5	8	20	9	8	0	6	6	19	13	10	7	0	0	11	0	21	0	0
Year	9.0	SW.	50	NW.	6	43	64	107	52	110	149	111	91	2	84	133	148	118	92	33	2	3	53	15	126	23	1

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

SAN FRANCISCO, CAL.

[λ = 37° 48′ N.; φ = 122° 26′ W.; gravity corr., —0.02.]

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	29.84	30.18	29.20	45.9	50.9	53.0	44.3	48.6	63	38	42	41	88	72	.275	.266	6.99	1.96	5.7	6.2	5.6
February	29.97	30.25	29.69	49.1	56.3	60.2	47.4	53.8	69	41	46	46	90	70	.315	.315	2.31	1.44	3.2	4.0	3.8
March	29.91	30.12	29.60	48.4	54.2	57.1	47.2	52.2	70	40	44	44	86	70	.294	.294	1.89	.67	5.6	4.7	5.1
April	29.95	30.28	29.74	50.1	55.6	60.4	49.1	54.8	73	44	45	47	84	74	.306	.325	1.24	.89	4.4	3.6	4.0
May	29.86	30.07	29.72	52.4	59.8	63.9	51.4	57.6	89	48	47	50	85	72	.331	.360	.60	.27	3.2	3.0	3.5
June	29.82	30.01	29.66	52.7	58.9	65.8	51.6	58.7	86	48	49	50	89	75	.354	.364	.00	.00	4.6	2.1	3.1
July	29.81	29.95	29.68	54.4	59.3	63.4	53.5	58.4	83	50	52	53	92	81	.389	.407	.01	.01	6.2	3.7	4.9
August	29.77	29.92	29.61	54.1	58.9	63.5	53.2	58.4	80	50	52	52	94	80	.388	.393	.00	.00	4.5	1.8	4.1
September	29.80	29.97	29.68	55.8	62.0	67.2	54.2	60.7	89	51	51	50	85	69	.373	.368	.77	.62	3.3	3.5	4.0
October	29.84	30.05	29.58	53.6	59.4	65.5	52.0	58.8	83	48	52	51	93	76	.383	.376	.11	.06	4.5	2.2	3.8
November	29.92	30.35	29.56	52.1	57.7	62.4	49.9	56.2	83	42	44	44	76	64	.288	.291	1.78	1.06	2.8	2.6	3.7
December	30.06	30.38	29.59	45.5	50.8	53.5	43.8	48.6	60	39	42	44	88	80	.268	.299	1.43	.51	3.1	5.2	4.7
Year	29.88	30.38	29.20	51.2	57.0	61.3	49.8	55.6	89	38	47	48	88	74	.330	.338	17.13	1.96	4.3	3.6	4.2

SAN LUIS OBISPO, CAL.

[λ = 35° 18′ N.; φ = 120° 39′ W.; gravity corr., —0.02.]

January	29.80	30.11	29.33	44.9	53.0	57.7	41.7	49.7	76	33	39	43	82	70	.245	.283	8.05	2.63	3.9	6.2	5.3
February	29.89	30.19	29.68	46.5	53.9	64.9	44.1	54.5	79	33	42	46	86	64	.272	.309	1.82	1.05	2.3	3.7	4.1
March	29.85	30.04	29.62	46.5	56.1	61.0	43.9	52.4	81	31	42	44	85	66	.271	.292	2.44	.94	4.3	5.2	5.0
April	29.87	30.14	29.70	49.6	58.3	64.4	46.9	55.6	76	39	43	45	79	64	.280	.307	.67	.30	3.9	4.2	4.5
May	29.78	29.97	29.66	51.6	60.7	69.6	46.1	58.8	90	40	45	49	82	68	.306	.348	.47	.36	1.4	2.1	3.0
June	29.76	29.87	29.66	51.7	68.7	77.9	49.2	63.6	99	37	46	49	82	52	.312	.354	.00	.00	4.4	.9	2.9
July	29.76	29.87	29.66	55.5	70.2	77.8	53.4	65.6	93	44	51	54	86	56	.377	.410	.00	.00	4.6	1.3	3.7
August	29.73	29.86	29.60	54.7	70.2	78.1	53.1	65.6	90	44	52	53	89	56	.384	.407	T.	T.	8.1	1.0	3.7
September	29.73	29.85	29.62	52.6	68.3	79.6	49.0	64.5	99	42	44	47	78	52	.305	.338	T.	T.	3.0	1.7	2.7
October	29.77	29.95	29.50	53.1	64.2	75.0	50.4	62.7	92	39	50	52	89	67	.360	.393	1.80	1.14	4.6	2.4	4.2
November	29.85	30.20	29.54	46.3	60.3	70.8	42.4	56.6	93	28	36	42	70	54	.214	.270	1.56	1.17	1.1	3.1	3.0
December	29.97	30.26	29.67	44.4	56.3	64.6	40.8	52.7	80	28	34	36	69	50	.202	.223	.68	.40	.9	2.3	2.6
Year	29.81	30.26	29.33	49.8	62.1	70.1	47.0	58.5	99	28	44	47	81	60	.294	.328	17.49	2.63	3.5	2.8	3.7

SANTA FE, N. MEX.

[λ = 35° 41′ N.; φ = 105° 57′ W.; gravity corr., —0.02.]

January	23.16	23.55	22.88	23.2	29.7	36.4	20.0	28.2	48	— 4	13	11	63	44	.081	.075	1.51	0.73	3.5	3.6	4.5
February	23.23	23.44	22.90	20.9	30.6	36.5	18.0	27.2	54	—11	7	12	52	43	.062	.080	1.20	.60	2.8	2.7	3.8
March	23.21	23.54	22.90	31.1	45.3	50.0	29.5	39.8	66	19	10	13	40	27	.069	.080	.54	.40	3.3	3.6	4.3
April	23.25	23.56	22.90	39.4	56.6	60.9	37.0	49.0	70	18	10	1	31	16	.074	.058	.01	.01	2.2	4.1	3.4
May	23.24	23.50	22.95	46.7	61.0	65.5	43.7	54.6	81	31	25	18	50	27	.146	.119	3.46	1.38	3.3	5.5	4.6
June	23.36	23.54	23.11	55.9	68.2	74.2	51.3	62.8	80	39	34	24	46	25	.201	.154	.99	.41	2.4	5.6	4.2
July	23.39	23.52	23.27	59.1	69.9	76.9	55.6	66.2	87	48	39	38	58	39	.282	.252	4.78	1.46	4.2	6.6	5.2
August	23.39	23.52	23.21	57.6	69.4	76.8	55.7	66.2	84	50	47	45	69	45	.324	.312	3.64	1.05	2.8	7.1	4.6
September	23.37	23.56	23.08	53.8	69.7	74.8	52.4	63.6	84	33	35	29	50	25	.216	.174	.09	.08	3.4	2.4	2.5
October	23.36	23.57	23.07	41.3	52.5	59.8	39.3	49.6	70	27	28	29	62	42	.158	.160	1.75	1.20	3.4	3.3	3.2
November	23.27	23.49	23.02	28.4	35.6	44.0	26.1	35.0	57	9	18	22	64	56	.100	.117	1.18	.36	3.2	3.5	3.5
December	23.24	23.54	22.92	20.4	27.2	34.7	17.1	25.9	52	— 2	7	11	55	48	.060	.073	1.09	.45	2.6	2.5	3.0
Year	23.29	23.57	22.88	39.8	51.3	57.5	37.1	47.3	87	—11	23	21	53	36	.148	.138	20.24	1.46	3.1	4.2	3.9

SAULT STE. MARIE, MICH.

[λ = 46° 28′ N.; φ = 84° 22′ W.; gravity corr., —0.]

January	29.16	29.78	28.09	8.8	15.1	19.3	6.0	12.6	38	—12	6	13	90	90	.060	.078	3.17	0.96	7.8	7.6	8.4
February	29.24	29.74	28.33	5.4	13.9	19.2	2.3	10.8	46	—28	4	11	94	88	.060	.084	1.76	.48	7.0	6.0	7.2
March	29.28	29.68	28.70	9.7	18.3	25.2	5.5	15.4	50	—16	7	13	87	77	.063	.080	1.08	.26	5.5	4.5	5.7
April	29.36	29.80	28.96	36.6	39.9	48.4	31.4	39.9	70	19	30	31	78	71	.170	.177	2.58	1.22	5.0	5.6	5.3
May	29.28	29.62	28.82	48.6	54.1	63.4	41.6	52.5	89	27	42	43	77	68	.287	.313	3.17	.74	5.6	5.6	5.3
June	29.33	29.68	28.93	58.3	62.4	72.6	49.4	61.0	87	38	52	52	80	71	.394	.398	.93	.37	4.9	5.5	5.3
July	29.28	29.60	28.84	56.1	61.7	71.5	49.3	60.4	84	40	51	51	84	69	.381	.377	1.34	.50	4.0	4.3	4.5
August	29.22	29.44	28.90	56.4	60.9	69.6	51.2	60.4	87	40	53	53	88	76	.405	.404	1.34	.40	5.7	5.2	6.1
September	29.25	29.65	28.89	52.7	57.3	65.6	48.5	57.0	85	34	48	39	83	75	.350	.371	7.40	2.28	5.6	6.1	6.2
October	29.22	29.71	28.64	36.5	39.9	46.4	32.8	39.6	67	18	31	33	82	75	.181	.191	3.58	.65	6.0	7.8	7.2
November	28.36	29.79	28.65	27.6	30.5	35.6	24.2	29.9	60	— 1	24	25	86	78	.139	.142	1.51	.68	6.6	6.3	7.4
December	29.24	29.73	28.62	22.0	24.5	29.2	18.0	23.6	47	— 8	19	20	86	82	.114	.114	2.69	.56	7.6	6.8	7.8
Year	29.27	29.80	28.09	34.9	39.9	47.2	30.0	38.6	89	—28	31	33	85	77	.217	.227	30.55	2.28	5.9	5.9	6.4

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

SAN FRANCISCO, CAL.

[H = 153 ft.; h_t = 161 ft.; h_r = 154 ft.; h_a = 167 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	9.5	SE.	44	S.	2	3	8	3	16	5	11	5	9	2	9	7	15	13	11	0	1	0	0	0	0	1	0
February	7.1	W.	31	W.	0	4	1	0	7	2	9	20	11	2	16	7	5	6	6	0	0	4	0	0	0	0	0
March	9.6	W.	36	SE.	0	6	0	0	9	6	7	28	5	1	9	15	7	9	7	0	0	1	0	0	0	0	0
April	10.7	W.	35	W.	0	4	1	0	4	4	3	40	1	3	15	10	5	6	4	0	0	0	0	0	0	0	0
May	13.0	W.	36	W.	0	5	1	0	0	5	8	40	2	1	19	9	3	6	5	0	0	2	0	0	0	0	0
June	14.3	SW.	40	W.	1	0	0	0	0	2	16	39	2	1	20	7	3	0	0	0	0	0	0	0	0	0	0
July	15.5	SW.	38	W.	0	0	0	0	0	2	30	29	1	0	11	17	3	1	0	0	0	3	0	0	0	0	0
August	13.8	SW.	39	SW.	0	0	0	0	0	2	21	39	0	0	14	16	1	0	0	0	0	4	0	0	0	0	0
September	11.5	W.	35	W.	0	6	0	1	1	2	6	38	2	4	17	6	7	4	3	0	0	2	0	0	0	0	0
October	8.7	W.	36	W.	0	2	0	0	1	3	7	44	3	2	17	12	2	4	1	0	0	2	0	0	0	0	0
November	7.7	W.	36	W.	0	14	8	1	3	2	3	20	8	1	18	7	5	7	6	0	0	1	0	0	0	0	0
December	7.3	N.	34	S.	0	18	4	4	9	2	0	10	15	0	15	11	5	9	7	0	1	2	0	0	0	0	0
Year	10.7	W.	44	S.	3	62	23	9	50	37	121	352	59	17	180	124	61	65	50	0	2	21	0	0	0	1	0

SAN LUIS OBISPO, CAL.

[H = 201 ft.; h_t = 10 ft.; h_r = 3 ft.; h_a = 46 ft.]

Month.	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.
January	5.1	NW.	33	NW.	0	11	10	2	5	10	3	5	14	2	13	6	12	13	11	0	0	0	0	0	0	2	0
February	4.9	NE.	25	W.	0	8	13	0	2	5	1	12	10	5	13	8	7	7	5	0	0	5	0	0	0	0	0
March	5.4	W.	27	W.	0	10	1	0	1	7	1	18	13	11	12	9	10	7	6	0	0	5	0	0	2	0	0
April	7.6	NW.	28	NE.	0	8	10	0	3	4	5	8	20	2	14	7	9	3	3	0	0	3	0	0	0	0	0
May	8.0	NW.	28	NW.	0	9	3	1	1	5	0	16	24	3	18	11	2	5	3	0	0	9	0	1	0	0	0
June	4.7	NW.	18	NW.	0	9	0	0	4	12	1	15	15	4	20	9	1	0	0	0	0	4	0	4	0	0	0
July	4.7	NW.	18	W.	0	2	0	0	1	18	0	19	22	0	16	13	2	0	0	0	0	9	0	1	0	0	0
August	3.8	NW.	14	W.	0	7	1	0	3	11	1	17	18	4	22	6	3	0	0	0	0	0	0	1	0	0	0
September	4.7	NW.	18	NW.	0	10	0	2	3	6	2	11	24	2	21	6	3	0	0	0	0	2	0	4	0	0	0
October	3.7	NW.	16	NW.	0	13	3	2	1	14	0	5	20	4	16	8	7	5	4	0	0	7	0	1	0	0	0
November	4.3	N.	22	N.	0	29	3	0	3	4	2	6	9	4	20	7	3	4	4	0	0	1	0	3	3	1	0
December	5.6	N.	24	N.	0	27	1	1	3	6	0	1	20	3	22	7	2	2	2	0	0	2	0	0	3	0	0
Year	5.2	NW.	33	NW.	0	143	45	8	30	102	16	133	209	44	207	97	61	46	38	0	0	47	0	15	8	3	0

SANTA FE, N. MEX.

[H = 6,998 ft.; h_t = 47 ft.; h_r = 39 ft.; h_a = 50 ft.]

Month.	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.
January	7.1	NE.	31	SW.	0	8	14	2	7	8	9	1	12	1	18	6	7	8	7	8	0	0	8	0	30	0	0
February	7.5	NE.	26	NE.	0	8	15	0	6	8	10	2	5	2	16	5	7	5	5	4	0	0	9	0	26	0	0
March	7.7	SW.	45	SW.	1	5	10	1	8	2	16	4	16	0	17	9	5	5	2	5	0	0	0	0	22	0	0
April	8.4	SW.	38	SW.	0	5	10	4	15	1	15	6	4	0	16	11	3	1	0	0	0	0	0	0	6	0	0
May	8.3	SW.	38	SW.	0	4	7	5	12	3	16	4	9	2	15	11	5	10	8	1	0	1	0	0	1	1	0
June	7.2	SE.	38	SW.	0	4	3	6	19	7	15	2	4	0	13	16	1	9	7	0	0	0	0	0	0	6	0
July	6.3	SE.	37	SW.	0	3	12	8	18	7	6	2	5	1	8	17	6	15	11	0	0	0	0	0	0	10	0
August	5.6	SE.	27	SW.	0	1	8	12	19	3	8	2	5	4	8	23	0	20	19	0	0	0	0	0	0	19	0
September	6.3	SE.	34	E.	0	2	5	3	17	1	22	5	4	1	22	7	1	3	1	0	0	0	0	0	0	0	0
October	5.5	SE.	31	SE.	0	3	11	6	12	4	14	4	5	3	22	6	3	6	6	1	0	0	0	0	3	1	0
November	6.4	NE.	42	SW.	1	3	22	5	7	5	8	3	1	6	20	2	8	11	10	6	0	0	3	0	25	0	0
December	7.3	NE.	27	NE.	0	11	30	1	7	6	4	0	3	0	22	5	4	8	8	8	0	0	10	0	30	0	0
Year	7.0	SE.	45	SW.	2	57	147	53	147	55	143	35	73	20	197	118	50	101	84	33	0	1	30	0	143	37	0

SAULT STE. MARIE, MICH.

[H = 642 ft.; h_t = 56 ft.; h_r = 49 ft.; h_a = 65 ft.]

Month.	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.
January	8.1	SE.	35	NW.	0	1	9	6	18	2	13	3	9	1	0	6	25	22	18	20	0	0	30	0	31	0	0
February	8.6	NW.	42	NW.	1	0	1	0	7	1	9	6	25	7	3	10	15	13	12	13	0	1	23	0	27	0	2
March	10.4	NW.	40	NW.	1	1	9	1	5	5	4	6	28	3	8	12	11	12	10	11	0	0	23	0	30	0	2
April	7.5	NW.	28	E.	0	3	2	8	17	0	1	9	15	5	12	6	11	10	8	2	0	1	1	0	17	0	0
May	8.0	SE.	27	SW.	0	3	4	6	18	3	4	10	12	2	11	12	8	12	11	3	0	1	0	0	9	5	1
June	7.2	SE.	27	NW.	0	0	0	6	26	1	1	5	18	3	9	14	7	12	5	0	0	3	0	0	0	3	1
July	7.7	NW.	34	NW.	0	0	3	2	15	1	0	9	26	6	14	12	5	8	6	0	0	6	0	0	0	2	2
August	7.4	NW.	34	NW.	0	1	0	1	20	1	4	5	21	9	9	9	13	14	9	0	1	6	0	0	0	3	1
September	8.9	SE.	35	NW.	0	1	3	2	28	2	5	5	10	4	5	14	11	17	14	0	1	3	0	0	0	10	1
October	9.6	NW.	37	NW.	0	4	3	6	11	6	6	5	19	2	4	9	18	17	15	9	0	2	1	0	12	0	2
November	7.9	SE.	25	NW.	0	2	13	3	21	3	7	3	6	2	4	8	18	14	9	10	0	1	11	0	23	0	2
December	8.4	SE.	36	SE.	0	2	6	7	22	2	10	2	7	4	3	6	22	16	12	10	0	4	18	0	26	0	0
Year	8.3	NW.	42	NW.	2	18	53	48	208	27	64	68	196	48	82	118	165	167	129	78	2	28	107	0	175	23	14

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

SAVANNAH, GA.

[λ=32° 05′ N.; φ=81° 05′ W.; gravity corr., —0.03.]

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	30.02	30.28	29.56	44.8	50.8	58.9	42.0	50.4	74	23	40	43	85	76	.268	.295	5.02	1.63	6.9	5.1	5.9
February	30.05	30.40	29.49	37.6	43.2	51.0	34.6	42.8	78	12	31	32	78	67	.190	.194	3.73	1.83	6.1	4.2	4.9
March	30.01	30.38	29.57	53.3	58.0	67.7	49.2	58.4	84	37	47	49	81	75	.351	.369	5.31	2.44	4.0	3.7	4.6
April	29.93	30.34	29.50	60.9	63.3	73.6	55.5	64.6	83	43	54	54	79	74	.437	.438	4.43	1.27	4.6	4.1	4.6
May	29.99	30.16	29.69	68.5	70.1	79.5	63.0	71.2	93	52	63	63	83	79	.589	.588	2.20	1.15	5.9	5.0	4.9
June	29.98	30.19	29.82	77.4	77.4	88.9	70.0	79.4	98	62	69	69	75	76	.706	.714	6.08	3.19	4.5	5.4	3.8
July	29.96	30.12	29.73	79.0	79.1	90.9	72.3	81.6	98	65	73	72	81	81	.803	.794	9.06	2.92	4.6	6.1	4.8
August	29.94	30.10	29.80	80.1	79.4	90.6	73.8	82.2	98	70	74	73	82	82	.842	.820	9.68	5.23	5.3	6.5	4.3
September	29.98	30.21	29.75	74.4	76.6	86.4	70.1	78.2	94	62	70	70	86	81	.739	.748	2.72	.89	3.3	2.6	3.3
October	29.99	30.25	29.75	60.2	65.9	76.4	56.4	66.4	91	46	52	54	74	68	.393	.435	1.11	1.07	3.8	4.5	3.1
November	30.07	30.39	29.69	52.8	57.8	66.2	50.0	58.1	82	34	48	51	84	79	.363	.400	3.74	1.42	5.7	4.9	5.0
December	30.07	30.46	29.67	44.8	51.0	60.9	41.2	51.0	74	26	40	40	82	68	.266	.271	1.71	.86	4.9	3.6	4.3
Year	30.00	30.46	29.49	61.2	64.4	74.2	56.5	65.4	98	12	55	56	81	76	.496	.506	54.84	5.23	5.0	4.6	4.5

SEATTLE, WASH.

[λ=47° 38′ N.; φ=122°20′ W.; gravity corr., +0.01.]

Month.	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.
January	29.74	30.28	29.11	37.6	40.9	43.4	35.2	39.3	58	28	34	35	89	80	.204	.205	6.13	1.41	8.5	8.8	8.1
February	30.00	30.39	29.53	42.7	47.8	49.7	40.2	45.0	60	31	36	37	80	67	.225	.225	1.76	.65	7.8	8.1	7.0
March	29.84	30.34	29.12	39.6	49.2	51.7	37.3	44.5	65	27	34	35	82	60	.197	.205	3.60	1.15	6.4	7.3	6.5
April	29.91	30.43	29.51	43.8	54.6	58.3	41.8	50.0	71	32	38	37	81	54	.231	.223	3.17	.71	8.2	7.6	6.9
May	29.86	30.39	29.22	48.5	59.5	63.0	47.3	55.2	87	41	41	42	78	58	.263	.272	3.20	1.30	7.8	7.2	6.8
June	29.99	30.35	29.64	52.5	67.5	70.5	51.3	60.9	90	42	47	45	82	48	.328	.309	.29	.14	6.2	5.8	5.0
July	29.92	30.18	29.59	55.3	70.9	72.8	54.4	63.6	90	50	50	50	81	49	.355	.361	.37	.30	5.2	3.6	4.0
August	29.91	30.12	29.66	53.9	70.4	71.6	52.5	62.0	84	47	50	49	86	50	.357	.356	.21	.20	2.2	0.5	3.0
September	29.87	30.22	29.53	50.4	60.2	63.0	48.0	55.8	75	36	47	46	88	60	.323	.313	1.01	.46	6.0	7.2	6.1
October	29.98	30.21	29.74	47.0	55.7	57.9	45.4	51.6	73	38	45	46	93	73	.301	.315	.02	.02	3.8	5.0	6.0
November	29.98	30.45	29.44	42.4	46.5	49.0	39.9	44.4	60	31	38	41	87	82	.238	.262	1.95	.44	7.0	8.0	7.2
December	29.88	30.49	29.22	40.3	43.2	46.1	37.6	41.8	59	27	35	37	82	79	.206	.223	7.93	2.07	8.4	8.3	8.5
Year	29.91	30.49	29.11	46.2	55.5	58.1	44.3	51.2	90	27	41	42	84	63	.269	.272	29.69	2.07	6.5	6.4	6.3

SHREVEPORT, LA.

[λ=32° 30′ N.; φ=93° 40′ W.; gravity corr., —0.03.]

Month.	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.
January	29.80	30.15	29.26	40.5	47.0	51.7	37.1	44.4	77	18	35	36	81	68	.231	.242	2.26	0.97	6.5	5.5	7.3
February	29.96	30.34	29.53	34.2	43.5	47.1	32.0	39.6	74	4	29	33	82	68	.183	.207	.76	.30	6.4	5.9	7.5
March	29.78	30.20	29.40	50.9	62.0	67.8	48.2	58.0	84	31	44	44	77	55	.315	.315	4.66	1.78	4.9	5.5	5.8
April	29.70	30.05	29.38	57.6	71.2	76.1	55.0	65.6	87	39	50	49	76	48	.375	.373	.24	.15	3.9	3.8	4.8
May	29.73	30.02	29.56	65.4	72.1	79.7	60.6	70.2	88	49	60	63	85	74	.542	.586	5.97	1.52	5.4	5.9	6.6
June	29.76	29.90	29.60	74.1	80.7	87.7	69.5	78.6	94	63	70	71	87	74	.736	.764	5.70	2.10	6.6	5.9	6.9
July	29.75	29.88	29.49	76.4	83.5	90.1	72.7	81.4	96	68	72	73	87	73	.795	.821	4.33	2.98	5.5	5.8	6.1
August	29.71	29.89	29.59	76.1	83.9	91.8	72.6	82.2	96	69	72	72	86	70	.777	.798	1.48	.70	4.0	5.0	4.9
September	29.78	29.98	29.54	72.9	81.7	89.3	69.2	79.2	98	46	67	68	83	64	.690	.699	.72	.50	3.1	3.0	3.9
October	29.85	30.07	29.49	53.3	66.7	74.0	50.9	62.4	90	41	46	48	75	54	.315	.352	2.50	1.55	3.9	3.0	3.6
November	29.88	30.19	29.42	47.9	58.0	63.8	45.2	54.5	80	29	43	45	83	64	.296	.320	6.06	2.46	5.4	5.4	5.7
December	29.84	30.16	29.34	44.3	51.4	58.5	40.1	49.3	71	26	38	37	77	60	.256	.248	1.87	.84	4.6	2.5	4.5
Year	29.80	30.34	29.26	57.8	66.8	73.1	54.4	63.8	98	4	52	53	82	64	.459	.477	36.55	2.98	5.0	4.8	5.6

SIOUX CITY, IOWA.

[λ=42° 29′ N.; φ=96° 24′ W.; gravity corr., —0.01.]

Month.	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.
January	28.80	29.50	28.19	8.4	15.8	23.2	5.1	14.2	52	—15	4	9	82	72	.061	.072	0.16	0.11	4.5	4.1	5.5
February	28.92	29.45	28.22	11.2	21.4	29.6	8.5	19.0	66	—23	6	12	79	69	.073	.093	.33	.18	6.4	4.2	5.9
March	28.76	29.15	28.13	25.0	39.0	45.3	22.5	33.9	83	— 4	17	18	70	44	.096	.103	.50	.19	4.7	4.7	4.3
April	28.69	29.07	28.00	47.3	62.6	68.6	44.6	56.5	85	28	38	36	71	42	.234	.229	3.20	1.35	5.3	4.9	5.3
May	28.67	29.13	28.08	55.2	67.3	73.4	50.5	62.0	95	31	45	43	70	44	.321	.305	2.15	1.12	5.0	5.7	5.7
June	28.76	28.99	28.41	62.4	72.8	78.7	57.7	68.2	91	46	56	55	80	56	.450	.439	4.95	1.55	5.2	5.5	5.2
July	28.75	29.03	28.46	65.0	79.7	84.9	59.9	72.4	97	41	57	56	76	46	.474	.464	2.63	.99	4.5	3.9	4.8
August	28.70	29.07	28.40	64.3	77.4	84.3	61.2	72.8	98	47	57	58	79	54	.485	.492	1.54	.38	4.0	4.6	4.6
September	28.68	29.15	28.22	58.9	71.1	79.4	56.1	67.8	103	27	52	52	78	53	.422	.422	3.91	1.66	4.6	2.5	4.4
October	28.85	29.26	28.40	36.8	51.2	60.1	34.8	47.4	76	12	27	27	68	39	.158	.155	.10	.06	3.4	3.0	3.8
November	28.80	29.20	28.40	27.2	35.4	42.0	24.4	33.2	67	— 1	23	25	83	68	.130	.140	.80	.43	6.3	6.0	6.3
December	28.73	29.22	28.16	20.6	28.4	35.4	17.1	26.2	54	— 5	16	18	80	63	.094	.100	.02	.02	5.7	3.4	5.2
Year	28.76	29.50	28.00	40.2	51.8	58.7	36.9	47.8	103	—23	33	34	76	54	.250	.251	20.29	1.66	5.0	4.4	5.1

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

SAVANNAH, GA.

[H = 98 ft.; h_t = 63 ft.; h_r = 55 ft.; h_a = 86 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 12°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	8.1	W.	32	N.	0	10	9	2	5	6	9	13	8	0	7	15	9	11	9	0	0	5	0	0	5	2	0
February	9.7	NW.	42	NW.	1	6	9	2	4	3	6	8	18	0	11	9	8	9	8	1	0	0	1	0	10	0	0
March	9.1	S.	32	NW.	0	3	2	4	12	16	11	3	11	0	15	8	8	10	8	0	0	5	0	0	0	2	0
April	9.6	S.	37	NW.	0	4	9	2	7	20	6	6	6	0	11	11	8	12	7	0	1	0	0	0	0	5	0
May	7.0	SE.	25	NW.	0	5	10	9	13	14	1	6	4	0	9	13	9	12	8	0	0	2	0	1	0	6	0
June	7.0	S.	35	S.	0	2	7	0	9	22	14	5	1	0	14	12	4	9	7	0	0	0	0	13	0	10	0
July	6.7	SW.	30	NW.	0	1	3	2	6	16	15	17	2	0	8	19	4	18	17	0	0	0	0	23	0	18	0
August	6.1	SW.	26	NE.	0	3	4	2	6	15	19	9	4	0	11	15	5	14	11	0	0	0	0	18	0	18	0
September	6.1	NE.	28	NW.	0	13	12	6	11	7	5	1	5	0	18	7	5	9	7	0	0	1	0	4	0	4	0
October	8.2	N.	26	NE.	0	21	16	2	3	6	5	3	6	0	19	7	5	3	1	0	0	0	0	1	0	0	0
November	8.5	N.	30	NW.	0	14	11	5	0	7	10	1	12	0	12	6	12	9	7	0	0	2	0	0	0	1	0
December	7.9	NW.	36	W.	0	2	5	4	9	11	5	13	13	0	15	7	9	8	6	0	0	0	0	0	6	1	0
Year	7.8	S.	42	NW.	1	84	97	40	85	143	106	85	90	0	150	129	86	124	96	1	1	15	1	60	21	67	0

SEATTLE, WASH.

[H = 119 ft.; h_t = 100 ft.; h_r = 94 ft.; h_a = 108 ft.]

Month.	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 12°.	Thunderstorms.	Auroras.
January	5.2	S.	30	SW.	0	11	6	9	6	20	4	2	3	1	3	6	22	16	11	3	0	3	0	0	6	0	0
February	5.3	S.	24	S.	0	4	4	9	9	21	5	0	2	2	2	12	14	16	10	1	0	1	0	0	1	0	0
March	6.4	S.	30	S.	0	7	3	6	9	19	7	1	10	0	8	6	17	14	10	2	1	4	0	0	4	1	0
April	6.5	S.	42	SW.	1	8	8	0	7	15	10	2	10	0	5	9	16	13	11	1	1	0	0	0	0	1	0
May	6.9	S.	24	W.	0	6	7	5	5	18	14	2	4	1	5	9	17	16	14	0	0	0	0	0	0	0	0
June	5.1	S.	19	N.	0	13	6	1	8	12	4	5	8	3	12	8	10	6	3	0	0	0	0	1	0	0	0
July	4.7	N.	20	SW.	0	14	4	4	1	10	3	9	10	7	11	16	4	4	3	0	0	1	0	0	0	0	0
August	3.4	Calm. NW.	18	N.	0	24	7	2	3	5	2	2	8	9	25	5	1	2	1	0	0	5	0	0	0	0	0
September	5.3	S.	24	SE.	0	4	8	4	9	19	4	3	6	3	10	6	14	9	6	0	0	2	0	0	0	1	0
October	3.0	N.	20	S.	0	18	10	3	5	10	2	4	6	4	13	2	16	1	0	0	0	13	0	0	0	0	0
November	5.9	S.	34	S.	0	11	7	2	12	19	4	2	1	2	5	7	18	14	12	0	0	7	0	0	3	0	0
December	7.8	S.	33	S.	0	5	4	6	13	25	5	1	1	2	2	4	25	25	22	5	0	0	0	0	4	0	0
Year	5.5	S.	42	SW.	1	125	74	51	87	193	64	33	69	34	101	90	174	136	103	12	2	36	0	1	18	3	0

SHREVEPORT, LA.

[H = 249 ft.; h_t = 77 ft.; h_r = 76 ft.; h_a = 84 ft.]

Month.	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 12°.	Thunderstorms.	Auroras.
January	8.0	SE.	34	NW.	0	8	5	7	16	8	2	8	8	0	6	5	20	11	9	3	2	3	0	0	13	2	0
February	7.8	SE.	38	NW.	0	3	11	4	12	9	1	4	11	1	3	8	17	8	7	1	0	2	6	0	16	0	0
March	8.4	SE.	39	NW.	0	8	3	4	21	11	3	1	11	0	11	6	14	10	9	0	1	3	0	0	2	6	0
April	7.9	S.	35	S.	0	2	5	1	13	18	2	4	15	0	13	7	10	3	2	0	0	3	0	0	0	3	0
May	7.5	SE.	41	W.	2	2	8	5	22	12	2	5	6	0	7	9	15	15	13	0	2	2	0	0	0	9	0
June	5.3	S.	42	NE.	1	4	7	2	14	17	5	5	5	1	7	5	18	11	9	0	0	0	0	9	0	11	0
July	5.3	SW.	43	N.	1	0	7	2	12	14	15	7	5	0	8	10	13	10	7	0	0	0	0	19	0	12	0
August	4.8	SE.	35	N.	0	8	3	8	24	7	4	3	3	2	11	12	8	8	5	0	0	0	0	25	0	6	0
September	5.9	SE.	33	NE.	0	6	14	2	19	13	2	2	2	0	20	4	6	5	4	0	0	0	0	17	0	4	0
October	5.5	NE.	25	NW.	0	17	21	4	9	4	2	2	3	0	17	8	6	3	3	0	0	1	0	0	0	1	0
November	7.1	SE.	32	NW.	0	4	1	2	23	7	4	3	15	1	10	4	16	8	8	0	0	2	0	0	3	1	0
December	10.1	S.	42	W.	1	2	2	1	13	19	5	8	12	0	14	5	12	7	4	0	0	1	0	0	10	1	0
Year	7.0	SE.	43	N.	5	64	87	42	198	139	47	52	96	5	127	83	155	99	80	4	5	17	6	70	44	56	0

SIOUX CITY, IOWA.

[H = 1,165 ft.; h_t = 96 ft.; h_r = 92 ft.; h_a = 109 ft.]

Month.	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 12°.	Thunderstorms.	Auroras.
January	12.0	NW.	46	NW.	3	14	3	2	7	9	2	2	22	1	9	12	10	4	1	3	0	3	24	0	31	0	0
February	11.4	NW.	48	NW.	4	11	1	2	9	4	7	1	21	0	6	9	13	5	3	3	0	1	15	0	24	0	0
March	12.6	N.	43	S.	1	15	7	1	8	7	6	6	12	0	15	9	7	6	5	4	0	0	8	0	24	0	0
April	12.6	SE.	60	NW.	1	12	5	5	22	5	3	1	6	1	9	13	8	9	6	1	0	0	0	0	2	2	0
May	12.4	S.	48	S.	5	8	6	2	6	20	4	6	10	0	7	14	10	12	10	0	2	0	0	3	1	6	0
June	10.3	SE.	52	N.	3	5	3	3	17	9	5	3	14	1	9	15	6	13	11	0	0	0	0	2	0	11	0
July	9.1	S.	48	NW.	1	7	8	5	10	15	8	3	6	0	9	18	4	4	4	0	2	0	0	4	0	7	0
August	9.2	S.	46	N.	1	9	8	2	9	21	3	1	9	0	15	9	7	11	7	0	1	0	0	7	0	8	0
September	12.0	S.	48	SW.	3	6	4	2	15	18	1	0	13	1	13	10	7	6	5	0	1	1	0	8	1	5	0
October	10.6	NW.	41	NW.	1	7	4	2	12	12	4	0	21	0	16	10	5	2	2	0	0	0	0	0	11	0	0
November	11.1	S.	37	S.	0	11	6	2	13	13	3	1	11	0	8	9	13	6	5	5	0	2	9	0	21	0	0
December	11.0	NW.	43	NW.	1	8	1	0	6	18	4	4	21	0	11	10	10	1	0	1	0	0	9	0	29	0	0
Year	11.2	NW.	60	NW.	24	113	56	28	134	151	50	28	166	4	127	138	100	79	59	17	6	7	65	24	144	39	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

SPOKANE, WASH.

[λ = 47° 40′ N.; φ = 117° 25′ W.; gravity corr., + 0.01.]

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	27.88	28.30	27.32	24.7	30.3	33.5	22.0	27.8	47	10	22	24	88	78	.119	.132	3.04	0.75	7.5	8.3	8.2
February	28.11	28.41	27.73	30.2	41.0	43.4	27.7	35.6	56	8	26	28	82	59	.143	.157	.82	.30	5.2	6.0	6.4
March	27.94	28.32	27.40	31.6	46.7	49.0	29.5	39.2	65	10	25	25	77	42	.138	.137	.57	.23	5.9	6.6	6.5
April	28.00	28.52	27.54	39.3	58.2	61.6	38.0	49.8	78	27	30	25	69	30	.172	.140	.79	.26	6.6	6.9	6.9
May	27.94	28.46	27.38	45.4	62.3	65.0	44.4	54.7	84	34	35	31	69	36	.208	.179	1.58	.54	6.9	6.2	7.0
June	28.04	28.30	27.76	51.6	72.0	73.7	50.5	62.1	91	41	39	31	63	22	.240	.175	.42	.23	5.3	5.1	5.8
July	27.98	28.24	27.76	55.8	77.4	79.8	54.9	67.4	93	47	43	36	63	25	.281	.220	.42	.16	4.6	4.7	5.0
August	27.96	28.17	27.72	52.7	81.0	82.8	52.2	67.5	95	42	37	27	57	15	.228	.157	.03	.03	2.6	3.4	3.7
September	27.97	28.31	27.46	45.2	60.8	63.5	44.1	53.8	89	30	37	35	74	41	.228	.213	1.34	.93	5.8	6.6	6.6
October	28.10	28.30	27.79	37.0	61.4	65.5	35.5	50.5	76	22	32	32	81	33	.182	.182	T.	T.	1.9	4.3	4.0
November	28.07	28.46	27.57	32.0	40.2	43.9	30.1	37.0	56	11	29	30	87	68	.163	.171	1.96	.53	5.5	6.5	6.4
December	27.99	28.47	27.27	29.3	33.1	35.8	26.7	31.2	52	9	26	28	86	81	.140	.154	2.49	.88	6.3	7.5	7.5
Year	28.00	28.52	27.27	39.6	55.4	58.1	38.0	48.0	95	8	32	29	75	44	.187	.168	13.46	.93	5.3	6.0	6.2

SPRINGFIELD, ILL.

[λ = 39° 48′ N.; φ = 89° 39′ W.; gravity corr., —0.01.]

January	29.36	29.95	28.39	16.5	23.1	29.8	13.2	21.5	60	—10	10	14	75	67	.078	.092	1.12	0.72	5.5	3.8	5.5
February	29.49	29.85	28.87	13.6	22.5	27.5	11.7	19.6	65	—20	9	15	80	72	.078	.106	1.03	.66	4.3	4.0	4.8
March	29.34	29.67	28.90	32.9	41.6	48.8	29.9	39.4	84	12	24	27	70	57	.139	.153	1.61	.90	4.8	5.9	5.6
April	29.29	29.60	28.83	48.7	58.2	64.9	44.9	54.9	88	29	41	43	74	60	.262	.289	2.49	.77	6.1	6.2	5.9
May	29.33	29.64	29.08	58.3	67.5	74.3	53.2	63.8	92	34	50	49	73	53	.383	.369	2.55	1.04	4.1	4.7	3.7
June	29.36	29.59	29.13	70.6	79.2	85.1	64.1	74.6	95	55	59	55	68	47	.516	.449	3.49	1.12	5.2	5.9	5.7
July	29.34	29.58	29.01	68.0	77.3	83.0	63.8	73.4	94	54	61	60	78	58	.541	.540	5.53	1.70	5.4	5.6	4.9
August	29.29	29.52	29.11	69.2	78.4	85.4	65.2	75.3	93	56	61	62	77	60	.552	.577	2.76	1.50	4.4	4.6	4.2
September	29.37	29.65	29.02	63.1	72.2	80.8	60.4	70.6	94	36	56	59	79	65	.489	.542	2.80	1.17	3.3	2.6	3.0
October	29.42	29.77	29.00	41.2	52.5	60.5	38.5	49.5	75	21	30	32	65	46	.180	.187	.27	.22	2.8	2.3	2.7
November	29.42	29.73	28.76	34.7	40.4	47.0	32.2	39.6	72	9	29	31	78	71	.109	.184	3.28	1.01	6.5	6.1	6.5
December	29.32	29.72	28.71	30.9	33.5	39.8	27.4	33.6	59	4	26	27	79	75	.153	.159	8.08	3.67	8.1	6.1	7.1
Year	29.36	29.95	28.39	45.6	53.9	60.6	42.0	51.3	95	—20	38	40	75	61	.295	.304	35.01	3.67	5.0	4.8	5.0

SPRINGFIELD, MO.

[λ = 37° 12′ N.; φ = 93° 18′ W.; gravity corr., —0.02.]

January	28.63	29.16	27.93	22.6	29.8	36.0	19.2	27.6	70	—12	18	22	80	72	.114	.126	2.33	1.12	4.1	4.4	4.9
February	28.77	29.10	28.26	19.1	28.2	33.4	17.1	25.2	66	—17	14	20	81	73	.103	.128	.81	.25	3.8	5.0	5.2
March	28.61	28.97	28.24	37.7	47.1	53.6	34.9	44.2	86	10	30	31	74	58	.180	.192	4.70	2.34	4.1	5.2	4.8
April	28.54	28.90	28.01	52.0	62.3	68.0	49.0	28.5	84	34	41	42	68	51	.269	.272	1.10	.32	4.7	4.4	4.6
May	28.61	28.88	28.37	58.5	67.2	72.8	54.0	63.4	86	40	52	52	78	61	.404	.414	3.54	.81	3.8	4.5	4.3
June	28.65	28.84	28.47	68.2	75.2	80.8	64.3	72.6	89	56	62	62	82	66	.566	.571	3.87	1.26	5.8	4.4	5.3
July	28.63	28.84	28.29	69.5	74.8	80.2	65.9	73.0	91	55	66	67	90	78	.658	.677	7.86	2.02	6.2	6.4	6.2
August	28.61	28.78	28.47	68.9	77.2	83.5	66.2	74.8	91	59	65	68	88	74	.623	.689	4.57	2.17	3.6	4.2	4.4
September	28.67	28.97	28.35	65.2	72.4	80.5	62.4	71.4	92	37	60	62	84	71	.555	.594	3.66	1.39	2.8	2.0	2.8
October	28.73	29.01	28.37	44.5	56.1	63.4	42.6	53.0	76	28	34	35	67	48	.208	.225	.78	.60	3.3	2.3	2.7
November	28.69	28.97	28.19	37.9	45.3	52.0	34.9	43.4	70	16	33	34	82	66	.198	.206	3.22	.86	6.4	5.0	5.9
December	28.61	28.96	27.95	32.3	37.7	43.3	29.0	36.2	60	4	28	29	84	72	.170	.175	11.02	4.96	5.7	5.5	6.3
Year	28.65	29.16	27.93	48.0	56.1	62.3	45.0	53.6	92	—17	42	44	80	66	.337	.356	47.46	4.96	4.5	4.4	4.8

TAMPA, FLA.

[λ = 27° 57′ N.; φ = 82° 27′ W.; gravity corr., —0.04.]

January	30.09	30.32	29.83	55.6	60.9	69.7	52.0	60.8	79	31	52	55	90	82	.420	.460	3.40	1.32	4.6	3.6	5.3
February	30.13	30.41	29.68	49.3	54.2	63.2	45.6	54.4	77	22	45	47	86	76	.325	.335	3.99	2.26	5.5	4.0	5.2
March	30.10	30.36	29.78	61.4	66.7	75.6	57.2	66.4	82	40	58	59	88	77	.489	.518	2.68	1.10	5.7	3.5	4.9
April	30.01	30.26	29.66	66.4	69.0	77.9	60.6	69.2	86	50	60	60	80	74	.527	.537	5.38	2.70	4.5	3.6	4.9
May	30.03	30.17	29.85	75.5	76.4	86.3	68.0	77.2	92	58	69	68	81	76	.720	.696	1.29	.63	3.9	4.4	4.9
June	30.06	30.23	29.92	78.5	79.2	88.6	71.4	80.0	94	64	71	72	79	78	.766	.777	4.24	1.48	5.0	5.9	5.0
July	30.07	30.19	29.90	80.5	79.0	88.5	73.5	81.0	93	69	73	74	79	84	.822	.831	10.63	1.87	4.9	6.8	5.9
August	30.01	30.15	29.90	80.5	79.6	89.4	74.0	81.7	95	68	74	73	81	81	.836	.817	8.88	2.49	4.9	7.6	7.4
September	30.00	30.16	29.80	77.6	78.7	88.3	72.0	80.2	91	66	72	71	83	79	.784	.767	4.80	1.40	4.1	4.7	4.6
October	29.99	30.20	29.77	70.0	73.7	82.2	65.1	73.6	88	59	63	64	79	72	.581	.596	3.04	2.78	4.2	3.2	4.7
November	30.09	30.31	29.84	62.3	66.2	75.8	58.2	67.0	84	42	58	58	85	77	.504	.508	1.78	.91	4.6	3.7	4.6
December	30.13	30.38	29.83	53.7	58.4	67.9	50.4	59.2	80	32	48	48	83	69	.363	.354	1.14	.36	4.7	3.7	4.8
Year	30.06	30.41	29.66	67.6	70.2	79.4	62.3	70.9	95	22	62	62	83	77	.595	.600	50.64	2.78	4.7	4.6	5.2

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

SPOKANE, WASH.

[H = 1,930 ft.; h_t = 99 ft.; h_r = 90 ft.; h_a = 107 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		Mi.																								
January	5.4	E.	39	SW.	0	2	10	15	5	10	13	4	1	2	2	6	23	16	15	12	0	4	14	0	27	0	0
February	5.8	NE.	28	SW.	0	3	13	10	3	9	13	4	0	1	4	13	11	6	4	2	0	2	1	0	17	0	0
March	6.8	S.	30	SE.	0	1	14	5	4	12	15	6	2	3	7	8	16	9	3	6	0	0	2	0	21	0	0
April	6.6	SW.	36	SW.	0	2	6	6	7	11	20	1	5	2	4	9	17	10	7	1	1	0	0	0	4	2	0
May	7.5	S.	38	SW.	0	1	11	10	3	17	15	3	2	0	3	11	17	11	7	0	1	0	0	0	0	1	0
June	6.7	SW.	24	SW.	0	2	9	11	0	10	19	6	3	0	7	14	9	5	3	0	0	0	0	2	0	0	0
July	6.4	SW.	30	SW.	0	4	10	5	2	14	14	4	6	3	12	11	8	5	3	0	0	0	0	1	0	2	0
August	5.2	SW.	39	SE.	0	7	13	6	4	6	14	5	6	1	12	16	3	1	0	0	0	0	0	5	0	1	0
September	7.2	SW.	36	W.	0	6	8	6	0	14	19	5	1	1	5	11	14	3	4	0	0	1	0	0	1	0	0
October	2.9	NE.	24	SW.	0	12	14	7	1	8	8	2	3	7	14	14	3	0	0	0	0	1	0	0	10	0	0
November	4.8	SW.	24	NE.	0	2	9	3	2	14	18	6	5	1	7	8	15	9	8	2	0	5	1	0	17	0	0
December	8.4	SW.	42	SW.	3	1	9	7	4	18	19	3	1	0	4	5	22	18	9	13	0	5	9	0	24	0	0
Year	6.1	SW.	42	SW.	3	43	126	91	35	143	187	49	35	21	81	126	158	98	63	36	2	18	27	8	121	6	0

SPRINGFIELD, ILL.

[H = 644 ft.; h_t = 82 ft.; h_r = 60 ft.; h_a = 92 ft.]

Month.	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.
January	10.9	NW.	38	W.	0	10	4	3	4	11	3	13	14	0	12	8	11	9	5	6	0	1	17	0	29	0	0
February	10.1	NW.	28	NW.	0	1	3	1	3	9	8	8	23	0	7	14	7	8	6	6	0	0	17	0	23	0	0
March	12.3	NW.	34	W.	0	7	10	4	3	14	4	6	14	0	10	10	11	7	5	3	0	0	4	0	21	1	0
April	10.7	N.	36	S.	0	9	8	8	7	9	5	5	8	1	9	8	13	12	7	1	0	0	0	0	1	3	0
May	10.6	S.	32	S.	0	4	3	2	6	23	14	0	10	0	12	17	2	9	9	0	2	0	0	3	0	6	0
June	8.1	S.	30	S.	0	5	5	4	7	14	9	3	13	0	7	14	9	6	6	0	0	0	0	8	0	6	0
July	7.4	S.	32	SW.	0	7	11	8	5	12	10	3	6	0	9	15	7	12	11	0	2	0	0	4	0	8	0
August	6.9	SW.	27	W.	0	8	0	1	3	12	15	14	9	0	11	16	4	9	8	0	0	0	0	9	0	6	0
September	9.2	S.	31	SW.	0	5	3	3	5	20	14	6	4	0	19	7	4	7	6	0	0	0	0	9	0	2	0
October	9.3	NW.	34	W.	0	5	3	4	2	12	12	7	17	0	20	7	4	4	2	0	0	0	0	0	8	0	0
November	10.3	S.	32	NW.	0	10	3	0	4	24	4	4	11	0	7	8	15	14	12	4	0	2	2	0	17	0	0
December	10.7	S.	35	SW.	0	4	6	0	5	21	5	9	12	0	6	7	18	14	9	7	0	2	8	0	20	1	0
Year	9.7	S.	38	W.	0	75	59	38	54	181	103	78	141	1	129	131	105	111	86	27	4	5	48	33	119	33	0

SPRINGFIELD, MO.

[H = 1,324 ft.; h_t = 100 ft.; h_r = 3 ft.; h_a = 103 ft.]

Month.	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.
January	10.3	NE.	48	SW.	1	4	13	5	12	6	7	5	9	1	11	10	10	7	7	5	1	4	12	0	27	1	0
February	9.9	NW.	36	NW.	0	6	5	3	11	7	6	1	17	0	7	13	8	9	6	7	0	2	16	0	20	0	0
March	11.7	S.	36	NW.	0	9	7	5	12	15	3	2	9	0	12	11	8	8	8	2	0	3	2	0	16	7	0
April	11.5	SE.	45	SE.	2	9	4	4	24	5	3	2	9	0	11	12	7	11	7	0	0	1	0	0	0	4	0
May	11.4	S.	37	SE.	0	5	6	5	13	20	7	1	5	0	12	13	6	12	12	0	0	0	0	0	0	10	0
June	8.6	SE.	48	NW.	1	8	7	3	21	10	3	1	6	1	4	18	8	11	8	0	0	1	0	0	0	7	0
July	8.1	S.	36	NE.	0	7	11	5	8	16	9	3	3	0	5	13	13	18	17	0	1	1	0	1	0	12	0
August	6.8	SE.	36	SW.	0	0	5	4	19	9	8	4	7	6	10	16	5	9	8	0	0	2	0	1	0	6	0
September	9.7	SE.	30	SW.	0	2	3	4	21	19	3	2	5	1	17	12	1	9	7	0	0	0	0	2	0	6	0
October	8.1	NW.	30	N.	0	10	6	4	12	9	5	3	13	0	20	6	5	6	3	0	0	0	0	0	3	1	0
November	11.4	SE.	36	NW.	0	8	4	2	18	14	1	3	10	0	10	8	12	10	9	2	0	1	1	0	14	0	0
December	12.0	S.	36	SW.	0	9	3	2	9	17	7	3	12	0	9	6	16	11	10	6	0	2	4	0	21	3	0
Year	10.0	SE.	48	SW. NW.	4	77	74	46	180	147	62	30	105	9	128	138	99	121	102	22	2	17	35	4	101	57	0

TAMPA, FLA.

[H = 36 ft.; h_t = 60 ft.; h_r = 52 ft.; h_a = 68 ft.]

Month.	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.
January	6.5	N.	24	S.	0	15	9	5	7	6	11	4	5	0	7	17	7	9	8	0	0	0	0	0	1	1	0
February	7.3	NE.	30	W.	0	13	13	5	2	2	4	7	9	1	10	11	7	6	6	0	0	0	0	0	3	0	0
March	7.5	NE.	29	SW.	0	8	13	4	3	8	11	7	8	0	11	14	6	6	3	0	0	0	0	0	0	2	0
April	7.7	W	42	SW.	1	5	11	3	9	4	6	16	6	0	10	12	8	8	8	0	0	0	0	0	0	4	0
May	6.0	NE.	23	S.	0	4	17	8	12	2	5	9	5	0	9	19	3	8	6	0	0	0	0	3	0	5	0
June	5.4	NE.	21	SE.	0	4	16	10	3	1	3	13	10	0	7	18	5	11	11	0	0	0	0	9	0	4	0
July	5.4	W.	24	SE.	0	1	6	8	10	3	11	15	8	0	5	17	9	20	18	0	0	0	0	11	0	9	0
August	5.0	E.	26	SE.	0	2	7	19	9	11	2	10	2	0	1	13	17	17	14	0	0	1	0	13	0	15	0
September	5.5	NE.	22	NE.	0	9	28	8	5	1	4	5	0	0	9	19	2	13	8	0	0	0	0	9	0	3	0
October	7.1	N.	25	NE.	0	31	13	4	4	1	2	3	3	1	11	18	2	5	4	0	0	1	0	0	0	0	0
November	6.3	N.	23	NW.	0	32	11	1	1	1	1	4	8	1	10	16	4	10	7	0	0	1	0	0	0	0	0
December	6.6	N.	26	NW.	0	20	16	3	4	3	0	3	13	0	13	12	6	9	4	0	0	1	0	0	0	0	0
Year	6.4	NE.	42	SW.	1	144	160	78	69	43	60	96	77	3	103	186	76	122	97	0	0	4	0	45	4	43	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

TATOOSH ISLAND, WASH.

[λ=48° 23′ N.; φ=124° 44′ W.; gravity corr., +0.01.]

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	29.75	30.33	29.02	40.3	41.7	44.0	37.0	40.5	57	30	36	37	86	83	.218	.220	12.50	2.58	7.8	7.8	7.8
February	30.00	30.42	29.44	43.6	45.0	47.5	41.1	44.3	54	36	40	41	87	85	.249	.254	9.02	1.63	8.6	8.9	9.0
March	29.85	30.37	29.06	43.0	45.4	47.8	39.8	43.8	54	33	38	39	84	80	.232	.243	10.43	2.50	7.1	7.4	7.1
April	29.93	30.40	29.46	44.4	47.0	50.0	41.2	45.6	57	33	40	41	85	81	.249	.262	9.62	1.88	7.8	7.5	7.9
May	29.90	30.50	29.22	48.3	51.3	54.2	46.2	50.2	78	41	43	45	84	80	.281	.301	7.12	1.88	7.2	6.3	7.0
June	30.08	30.42	29.75	51.2	54.7	57.3	49.5	53.4	71	46	48	50	90	84	.337	.357	2.38	.76	6.3	5.9	6.6
July	29.99	30.24	29.58	53.6	57.4	60.6	51.5	56.0	73	46	50	52	89	84	.365	.395	2.19	.92	6.6	4.8	6.7
August	29.99	30.21	29.71	52.5	56.8	59.4	49.8	54.6	70	45	49	52	89	86	.350	.396	1.31	.76	4.7	3.4	5.4
September	29.91	30.25	29.40	51.1	53.6	56.6	47.7	52.2	64	40	47	49	87	86	.327	.352	5.76	2.00	5.8	7.3	7.3
October	30.02	30.25	29.78	49.6	51.3	54.5	46.6	50.6	72	41	46	47	89	87	.314	.323	1.32	.37	3.8	5.0	6.9
November	29.99	30.49	29.42	45.8	46.7	48.8	43.0	45.9	56	33	42	43	86	86	.269	.277	8.86	1.52	6.5	7.1	7.6
December	29.84	30.50	29.23	43.9	43.9	47.5	39.0	43.2	60	31	39	39	83	83	.243	.242	22.44	3.22	7.7	8.6	8.6
Year	29.94	30.50	29.02	47.3	49.6	52.4	44.4	48.4	78	30	43	45	87	84	.286	.302	92.95	3.22	6.7	6.7	7.3

TOLEDO, OHIO.

[λ=41° 40′ N.; φ=83° 34′ W.; gravity corr., —0.01.]

Month.	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.
January	29.26	29.86	28.51	17.4	21.7	26.2	13.5	19.8	53	— 6	15	18	91	86	.096	.107	2.16	0.57	7.9	5.3	7.3
February	29.35	29.79	28.70	14.2	21.8	26.2	11.9	19.0	62	— 7	12	17	91	81	.083	.102	.34	.12	5.4	5.8	5.4
March	29.31	29.69	28.78	26.3	32.1	38.0	23.1	30.6	66	4	21	23	80	70	.116	.125	.91	.38	5.9	4.5	5.7
April	29.30	29.84	28.87	45.0	51.2	58.4	40.4	49.4	81	26	36	38	72	63	.219	.236	2.02	1.25	4.4	5.6	5.2
May	29.32	29.60	28.94	57.4	63.5	70.3	51.2	60.8	93	34	47	48	70	59	.359	.361	2.30	.81	4.4	4.8	4.9
June	29.35	29.67	29.11	68.4	74.1	81.2	61.9	71.6	94	47	57	57	68	57	.478	.473	1.24	.40	4.1	4.0	4.5
July	29.29	29.62	29.00	66.3	74.5	81.3	61.2	71.2	94	50	55	53	68	48	.445	.412	1.25	.46	3.6	3.9	4.7
August	29.24	29.45	28.97	67.4	74.9	82.5	62.3	72.4	93	52	58	58	73	58	.491	.499	3.75	1.43	3.8	2.8	3.9
September	29.33	29.57	28.96	62.6	69.6	77.3	58.9	68.1	93	37	54	54	75	61	.451	.451	1.11	.35	4.7	2.8	4.1
October	29.34	29.79	28.81	40.2	48.1	54.8	37.5	46.2	69	24	32	32	72	56	.185	.188	.97	.91	3.0	2.9	3.9
November	29.40	29.76	28.80	34.7	39.4	45.9	32.2	39.0	73	15	30	32	84	76	.176	.190	5.03	1.39	6.8	5.9	6.7
December	29.30	29.75	28.73	28.9	31.6	36.4	24.9	30.6	62	3	26	28	91	86	.154	.161	4.23	.89	6.5	6.0	7.1
Year	29.32	29.86	28.51	44.1	50.2	56.5	39.9	48.2	94	— 7	37	38	78	67	.271	.275	25.31	1.43	5.0	4.5	5.3

TOPEKA, KANS.

[λ=39° 03′ N.; φ=95° 41′ W.; gravity corr., —.]

Month.	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.
January	.....	.....	.....	.....	.....	36.3	14.7	25.5	68	— 8	.....	.....	.....	.....	.....	.....	0.57	0.42	.....	.....	.....
February	.....	.....	.....	.....	.....	36.6	16.3	26.5	70	—14	.....	.....	.....	.....	.....	.....	.68	.49	.....	.....	.....
March	.....	.....	.....	.....	.....	56.8	31.0	43.9	91	6	.....	.....	.....	.....	.....	.....	1.27	.70	.....	.....	.....
April	.....	.....	.....	.....	.....	72.9	47.7	60.3	85	32	.....	.....	.....	.....	.....	.....	.93	.52	.....	.....	.....
May	.....	.....	.....	.....	.....	78.8	54.3	66.6	94	39	.....	.....	.....	.....	.....	.....	3.74	1.09	.....	.....	.....
June	.....	.....	.....	.....	.....	83.7	62.9	73.3	96	51	.....	.....	.....	.....	.....	.....	2.79	1.46	.....	.....	.....
July	.....	.....	.....	.....	.....	84.9	65.2	75.0	99	53	.....	.....	.....	.....	.....	.....	9.23	3.37	.....	.....	.....
August	.....	.....	.....	.....	.....	85.8	65.7	75.8	95	56	.....	.....	.....	.....	.....	.....	6.20	1.59	.....	.....	.....
September	.....	.....	.....	.....	.....	83.4	62.8	73.1	96	33	.....	.....	.....	.....	.....	.....	2.61	1.54	.....	.....	.....
October	.....	.....	.....	.....	.....	66.5	41.0	53.8	83	25	.....	.....	.....	.....	.....	.....	.44	.31	.....	.....	.....
November	.....	.....	.....	.....	.....	52.8	32.8	42.8	77	11	.....	.....	.....	.....	.....	.....	1.00	.55	.....	.....	.....
December	.....	.....	.....	.....	.....	42.0	24.9	33.4	60	6	.....	.....	.....	.....	.....	.....	1.77	.92	.....	.....	.....
Year	.....	.....	.....	.....	.....	65.0	43.3	54.2	99	—14	.....	.....	.....	.....	.....	.....	31.23	3.37	.....	.....	.....

TUCSON, ARIZ.

[λ=32° 14′ N.; φ=110° 53′ W.; gravity corr., —0.03.]

Month.	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.
January	27.53	27.84	27.27	41.3	55.1	62.3	39.1	50.7	72	28	34	34	77	48	.204	.203	0.63	0.33	3.5	4.2	5.0
February	27.56	27.95	27.29	40.2	60.8	67.2	37.7	52.4	82	29	27	29	61	30	.151	.159	T.	T.	2.0	2.8	3.6
March	27.51	27.69	27.34	44.2	69.7	74.5	42.4	58.4	92	30	23	24	42	18	.125	.131	T.	T.	2.3	4.0	3.6
April	27.48	27.74	27.26	48.5	78.9	82.8	47.4	65.1	95	33	19	23	30	14	.108	.124	T.	T.	1.6	2.5	2.3
May	27.40	27.52	27.21	59.6	85.5	89.5	58.2	73.8	101	48	32	29	36	14	.182	.163	.10	.10	2.2	3.5	3.5
June	27.43	27.54	27.26	65.6	93.3	97.5	63.2	80.4	106	46	31	29	28	11	.187	.170	T.	T.	2.0	3.1	2.7
July	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
August	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
September	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
October	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
November	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
December	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Year	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

TATOOSH ISLAND, WASH.

[H = 86 ft.; h_t = 12 ft.; h_r = 1 ft.; h_a = 21 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	17.9	E.	72	E.	9	0	0	34	8	12	1	7	0	0	7	2	22	20	16	5	1	0	0	0	2	0	0
February	17.7	E.	58	E.	7	0	1	26	4	7	7	11	0	0	1	3	24	21	20	0	0	0	0	0	0	0	0
March	14.1	E.	50	W.	5	0	2	21	12	6	11	9	1	0	6	5	20	21	17	1	1	1	0	0	0	0	0
April	12.3	SE.	49	SW.	7	1	2	11	17	1	15	12	1	0	3	7	20	19	18	1	2	1	0	0	0	0	0
May	13.0	SW.	46	S.	1	2	1	14	6	8	16	14	0	1	8	4	19	20	19	0	1	3	0	0	0	0	0
June	9.1	W.	30	SW.	0	2	0	6	4	9	14	24	1	0	8	5	17	12	10	0	0	6	0	0	0	0	0
July	8.1	SW.	32	E.	0	1	3	11	9	9	16	13	0	0	8	6	17	9	7	0	0	9	0	0	0	0	0
August	7.4	SW.	29	S.	0	0	3	8	4	12	23	10	2	0	14	3	14	7	5	0	0	13	0	0	0	0	0
September	11.4	E.	58	NW.	3	0	1	18	3	12	17	6	3	0	4	10	16	21	17	0	0	5	0	0	0	0	0
October	11.8	E.	46	E.	2	0	2	35	2	8	9	5	1	0	9	3	19	8	6	0	0	16	0	0	0	0	0
November	12.3	E.	48	SE.	3	0	2	30	7	8	6	6	1	0	7	2	21	18	15	1	0	5	0	0	0	1	0
December	21.5	E.	69	W.	16	0	2	18	12	6	7	16	1	0	1	6	24	29	27	2	1	0	0	0	1	1	0
Year	13.0	E.	72	E.	53	6	19	232	88	98	142	133	11	1	76	56	233	205	177	10	6	59	0	0	3	2	0

TOLEDO, OHIO.

[H = 674 ft.; h_t = 122 ft.; h_r = 113 ft.; h_a = 127 ft.]

Month.	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.
January	11.9	W.	43	SW.	2	4	2	3	4	5	17	23	4	0	5	8	18	18	10	13	0	0	21	0	30	0	0
February	11.6	NW.	41	SW.	1	3	1	1	0	0	14	21	16	0	11	4	13	7	5	6	0	0	18	0	25	0	0
March	12.9	NW.	39	NE.	0	3	12	12	4	1	10	11	9	0	9	11	11	10	4	6	0	0	6	0	29	0	0
April	10.5	E.	38	NW.	0	7	10	18	6	1	5	9	4	0	12	7	11	9	8	1	0	0	0	0	3	0	0
May	9.4	SW.	37	S.	0	4	3	8	2	8	15	13	8	1	13	9	9	9	8	0	0	0	0	3	0	4	0
June	8.2	NW.	36	NW.	0	3	3	12	10	5	4	7	16	0	13	9	8	8	6	0	0	0	0	4	0	3	0
July	8.1	W.	42	NW.	1	2	7	15	5	2	6	14	9	2	12	10	9	6	5	0	0	1	0	2	0	2	0
August	7.9	NW.	32	NW.	0	9	3	9	7	4	8	13	9	0	16	9	6	9	6	0	0	1	0	3	0	3	0
September	9.5	SW.	30	NW.	0	3	3	4	6	9	12	14	9	0	16	7	7	7	5	0	0	0	0	7	0	2	0
October	10.8	W.	36	W.	0	4	2	4	0	5	11	23	13	0	15	8	8	4	3	0	0	0	0	0	7	0	0
November	9.6	SW.	60	SW.	1	4	5	4	3	14	15	4	11	0	7	8	15	15	11	5	0	0	2	0	16	0	0
December	11.3	SW.	31	SW.	0	7	4	3	4	9	22	8	5	0	6	8	17	16	14	8	0	4	14	0	21	0	0
Year	10.1	SW.	60	SW.	5	53	55	93	51	63	139	160	113	3	135	98	132	118	85	39	0	6	61	19	131	14	0

TOPEKA, KANS.

[H = — ft.; h_t = 81 ft.; h_r = 73 ft.; h_a = 89 ft.]

Month.	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.
January	.....	S.	....	.....	....	5	2	1	3	7	4	5	4	0	15	9	7	4	3	3	0	1	11	0	29	1	0
February	.....	NW.	....	.....	....	5	0	2	3	4	3	1	10	0	9	14	5	8	4	4	0	0	15	0	20	0	0
March	.....	S.	....	.....	....	5	4	3	3	6	3	3	4	0	16	9	6	8	6	5	0	1	2	1	18	2	0
April	.....	SE.	....	.....	....	5	3	5	8	2	2	2	3	0	14	11	5	7	4	1	1	1	0	0	0	1	0
May	.....	S.	....	.....	....	4	1	2	7	13	2	0	2	0	14	13	4	13	9	0	1	0	0	3	0	5	0
June	.....	S.	....	.....	....	2	5	6	5	6	0	2	3	1	11	14	5	10	9	0	1	0	0	4	0	6	0
July	.....	E.	....	.....	....	2	3	8	7	7	3	0	1	0	7	23	1	12	9	0	1	1	0	8	0	7	0
August	.....	SE.	....	.....	....	1	7	4	8	7	3	0	1	0	14	10	7	12	12	0	0	0	0	8	0	7	0
September	.....	S.	....	.....	....	4	0	2	8	14	0	1	1	0	20	6	4	4	4	0	0	1	0	11	0	2	0
October	.....	S.	....	.....	....	5	1	2	0	9	5	4	5	0	21	4	6	4	4	0	0	0	0	6	2	0	0
November	.....	S.	....	.....	....	4	2	1	1	12	4	1	5	0	7	12	11	7	6	1	0	0	4	0	15	0	0
December	.....	N.	....	.....	....	8	1	1	2	6	2	7	4	0	6	12	13	7	4	3	0	3	1	0	24	0	0
Year	.....	S.	....	.....	....	50	29	37	55	93	31	26	43	1	154	137	74	96	74	17	4	8	33	35	108	31	0

TUCSON, ARIZ.

[H = 2,390 ft.; h_t = 11 ft.; h_r = 4 ft.; h_a = 42 ft.]

Month.	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.
January	4.5	NW.	29	S.	0	0	1	8	12	12	4	5	19	1	12	9	10	6	5	0	1	0	0	0	4	0	0
February	5.4	NW.	34	E.	0	2	0	7	8	11	4	3	20	1	14	11	3	0	0	0	0	0	0	0	7	0	0
March	5.1	SE.	24	SW.	0	3	1	4	17	8	10	6	13	0	16	10	5	0	0	0	0	0	0	3	2	0	0
April	5.1	SE.	30	SW.	0	0	4	2	20	3	7	14	10	0	20	10	0	0	0	0	0	0	0	2	0	0	0
May	5.8	SE.	30	S.	0	1	6	7	16	7	6	13	6	0	18	12	1	1	1	0	0	0	0	14	0	3	0
June	5.5	SE.	28	SW.	0	2	4	12	13	4	12	11	2	0	22	6	2	0	0	0	0	0	0	27	0	3	0
July	.....	.....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
August	.....	.....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
September	.....	.....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
October	.....	.....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
November	.....	.....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
December	.....	.....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Year	.....	.....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

VICKSBURG, MISS.

[λ=32° 22′ N.; φ=90° 53′ W.; gravity corr., —0.03.]

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	29.81	30.14	29.24	42.0	48.7	53.8	38.6	46.2	76	19	38	40	84	73	.254	.275	6.56	2.68	7.9	4.8	6.3
February	29.95	30.29	29.55	34.8	44.2	49.1	32.2	40.6	74	4	30	34	82	69	.179	.207	1.70	.65	6.9	5.8	5.8
March	29.79	30.18	29.42	51.8	62.1	68.3	48.9	58.6	82	33	43	44	72	55	.300	.319	6.02	1.89	6.2	4.3	4.0
April	29.71	30.07	29.47	59.5	69.8	74.9	56.4	65.6	88	43	52	48	78	48	.406	.348	1.25	.58	3.6	3.1	2.2
May	29.74	29.95	29.56	65.4	73.4	79.0	61.6	70.3	90	49	60	60	84	64	.537	.527	3.02	.91	5.8	4.9	4.5
June	29.77	29.90	29.64	74.4	79.1	86.7	69.7	78.2	97	63	69	69	84	73	.716	.709	7.11	2.29	5.2	5.4	4.4
July	29.76	29.90	29.51	76.6	82.4	88.9	73.2	81.0	95	69	72	73	85	73	.786	.802	2.46	.69	4.5	5.7	3.2
August	29.72	29.89	29.56	75.3	79.3	88.2	71.7	80.0	93	67	72	72	89	79	.781	.789	3.77	.71	4.8	5.7	4.4
September	29.77	29.91	29.59	73.0	80.5	89.2	70.1	79.6	95	44	68	68	86	66	.713	.704	.14	.13	1.0	2.9	1.6
October	29.83	30.04	29.54	54.3	65.7	74.1	51.0	62.6	88	42	44	47	71	52	.304	.333	1.62	1.06	3.1	2.0	2.2
November	29.88	30.15	29.43	50.2	59.6	66.9	46.9	56.9	78	31	44	44	79	57	.316	.306	2.74	1.83	4.9	4.0	4.5
December	29.84	30.14	29.41	44.2	51.8	59.0	40.7	49.8	74	25	37	37	75	58	.245	.244	3.70	1.18	5.6	4.1	4.6
Year	29.80	30.29	29.24	58.5	66.4	73.2	55.1	64.1	97	4	52	53	81	64	.461	.464	40.09	2.68	5.0	4.4	4.0

VINEYARD HAVEN, MASS.

[λ=41° 76′ N.; φ=70° 43′ W.; gravity corr., —.]

January						40.2	27.2	33.7	55	11							4.19	0.93			
February						35.6	19.8	27.7	47	0							.95	.39			
March						44.7	30.9	37.8	55	21							4.58	.98			
April						53.0	38.7	45.8	63	30							3.14	.73			
May						67.5	49.7	58.6	90	40							4.23	1.04			
June						75.0	58.9	67.0	91	48							2.51	1.00			
July						76.7	62.2	69.4	87	56							6.37	1.91			
August						78.6	63.9	71.2	85	56							3.47	1.47			
September						73.8	59.3	66.6	91	46							1.15	.50			
October						59.3	44.8	52.0	69	34							2.45	2.03			
November						55.8	41.8	48.8	66	25							5.77	1.39			
December						47.4	33.7	40.6	62	18							4.71	2.19			
Year						59.0	44.2	51.6	91	0							43.52	2.19			

WALLA WALLA, WASH.

[λ=46° 02′ N.; φ=118° 20′ W.; gravity corr., 0.]

January	28.88	29.30	28.29	31.3	32.7	37.7	26.0	31.8	63	11	28	29	86	86	.157	.161	2.52	0.50	6.5	6.8	6.3
February	29.10	29.41	28.72	38.2	46.9	49.9	34.8	42.4	66	18	32	36	78	66	.180	.216	.55	.27	4.6	5.8	5.5
March	28.92	29.33	28.28	39.1	52.3	54.8	35.3	45.0	72	19	31	35	73	54	.175	.206	1.17	.54	4.5	5.0	5.2
April	28.96	29.48	28.56	46.9	63.4	66.4	43.0	54.7	86	31	34	37	63	42	.201	.226	1.23	.34	4.5	5.0	4.6
May	28.91	29.40	28.40	50.0	67.5	70.0	47.3	58.6	90	38	37	40	64	40	.227	.252	2.31	1.56	5.6	5.0	5.1
June	28.99	29.34	28.67	56.2	78.5	79.9	52.3	66.1	98	43	41	39	58	25	.260	.243	.04	.02	3.8	3.6	4.1
July	28.92	29.17	28.64	60.5	82.2	84.7	57.7	71.2	104	48	45	45	58	30	.301	.301	.50	.38	3.7	3.2	3.7
August	28.89	29.07	28.65	60.6	85.3	86.9	58.1	72.5	102	47	42	45	51	26	.269	.306	.23	.23	1.7	2.4	3.4
September	28.92	29.24	28.53	51.6	65.7	68.2	48.4	58.3	83	36	42	46	70	51	.268	.317	2.13	.49	5.1	5.1	5.0
October	29.04	29.23	28.76	47.6	63.3	67.9	43.5	55.7	84	30	37	44	68	51	.225	.297	.00	.00	.9	2.6	3.0
November	29.06	29.48	28.55	40.0	46.1	50.7	36.1	43.4	69	21	33	37	45	40	.193	.228	1.67	1.02	3.8	4.9	4.8
December	29.01	29.52	28.34	35.7	38.7	43.4	31.8	37.6	60	18	32	35	87	88	.182	.209	2.54	.85	6.5	6.2	6.6
Year	28.97	29.52	28.28	46.5	60.2	63.4	42.9	53.1	104	11	36	39	67	50	.220	.247	14.89	1.56	4.3	4.6	4.8

WASHINGTON, D. C.

[λ=38° 54′ N.; φ=77° 03′ W.; gravity corr., —0.02.]

January	29.96	30.38	29.26	28.5	33.1	38.6	24.7	31.6	62	4	23	26	80	74	.132	.147	4.42	1.35	6.4	4.9	6.4
February	29.95	30.46	29.29	21.2	28.0	34.2	18.3	26.2	67	0	13	15	68	57	.083	.093	1.10	.54	4.8	3.1	3.9
March	29.93	30.44	29.42	37.2	43.3	50.0	33.7	41.8	74	22	26	29	65	58	.145	.164	2.59	.83	6.0	4.7	5.0
April	29.92	30.52	29.28	50.1	55.8	62.7	44.8	53.8	86	33	39	41	68	61	.252	.270	6.26	1.98	5.6	5.9	5.6
May	29.97	30.19	29.54	59.4	63.9	71.9	53.2	62.6	95	40	52	52	77	68	.410	.427	3.09	.96	5.6	5.6	4.9
June	29.96	30.35	29.71	72.1	74.7	84.6	64.7	74.6	98	53	63	64	74	71	.581	.604	4.34	1.85	4.5	4.8	3.8
July	29.88	30.14	29.59	69.7	72.9	82.1	63.5	72.8	94	52	62	63	77	73	.566	.589	4.50	1.49	3.8	4.3	4.5
August	29.87	30.15	29.66	73.2	77.5	87.6	66.8	77.2	97	54	65	66	76	68	.631	.642	1.26	.32	2.9	4.5	3.3
September	29.97	30.28	29.65	67.6	71.4	83.0	61.9	72.4	98	45	60	60	76	69	.547	.559	1.11	.59	4.3	3.2	2.8
October	29.97	30.46	29.58	46.7	52.5	63.4	40.8	52.1	74	29	38	37	71	58	.231	.234	1.94	1.30	2.5	1.8	1.6
November	30.09	30.57	29.42	42.0	46.2	54.6	38.3	46.4	77	24	38	39	85	76	.244	.256	1.26	.57	4.7	4.3	4.8
December	30.04	30.64	29.32	34.0	39.5	46.1	31.5	38.8	66	13	28	32	76	72	.164	.192	2.38	1.10	5.0	4.8	5.4
Year	29.96	30.64	29.26	50.1	54.9	63.2	45.2	54.2	98	0	42	44	74	67	.332	.348	34.25	1.98	4.7	4.3	4.3

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

VICKSBURG, MISS.

[H = 254 ft.; h_t = 65 ft.; h_r = 58 ft.; h_a = 73 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	8.4	SE.	35	W.	0	10	13	3	16	4	6	4	6	0	8	10	13	15	13	2	1	0	0	0	9	6	0
February	7.9	NW.	37	NW.	0	9	11	8	9	2	6	2	7	2	11	4	13	10	8	3	0	0	3	0	15	0	0
March	8.6	SE.	32	W.	0	7	6	6	20	5	8	1	8	1	16	7	8	12	11	0	0	0	0	0	0	4	0
April	7.8	SW.	29	SE.	0	7	2	2	11	13	8	8	7	2	22	6	2	6	4	0	0	0	0	0	0	3	0
May	6.8	SE.	46	NW.	1	4	9	8	20	5	6	6	3	1	13	12	6	11	6	0	0	2	0	0	0	7	0
June	5.7	SW.	28	S.	0	7	5	6	14	7	15	5	1	0	11	13	6	15	13	0	0	0	0	6	0	10	0
July	6.0	SW.	25	SW.	0	3	4	5	13	7	18	6	5	1	19	10	2	13	10	0	0	0	0	10	0	10	0
August	4.6	E.	37	E.	0	5	10	13	5	9	9	7	3	1	13	12	6	18	12	0	0	2	0	8	0	14	0
September	4.9	N.	23	W.	0	13	7	7	12	5	8	3	2	3	27	3	0	2	1	0	0	1	0	19	0	8	0
October	5.5	NE.	20	SW.	0	10	29	7	5	2	2	2	3	2	24	3	4	5	4	0	0	0	0	0	0	1	0
November	7.4	SE.	32	SW.	0	9	7	11	19	4	5	0	5	0	15	6	9	6	5	0	0	0	0	0	1	0	0
December	10.0	SE.	36	NW.	0	6	5	1	26	5	4	7	7	1	14	7	10	7	7	0	0	0	0	0	7	0	0
Year	7.0	SE.	46	NW.	1	90	108	77	170	68	95	51	57	14	193	93	79	120	94	5	1	5	3	43	32	63	0

VINEYARD HAVEN, MASS.

[H = — ft.; h_t = 20 ft.; h_r = 3 ft.; h_a = 55 ft.]

January	9.8	NW.	....	.....	1	5	3	1	1	2	6	4	9	0	11	5	15	16	13	4	0	1	5	0	22	0	0
February	11.0	NW.	....	.....	2	3	3	0	0	1	3	6	12	0	15	5	8	6	4	4	0	0	8	0	26	0	1
March	10.0	NW.	....	.....	0	4	2	4	2	1	6	1	11	0	17	1	13	13	12	3	0	6	0	0	17	1	0
April	9.6	SW.	....	.....	0	4	9	0	4	0	10	0	3	0	9	4	17	15	11	0	0	7	0	0	2	0	0
May	8.5	SW.	....	.....	0	0	5	1	0	3	20	1	1	0	8	10	13	13	11	0	0	6	0	0	0	2	0
June	7.2	SW.	....	.....	0	1	5	0	4	2	16	2	0	0	8	3	19	8	7	0	0	14	0	1	0	4	0
July	6.7	SW.	....	.....	0	0	3	1	1	2	20	2	2	0	12	9	10	12	9	0	0	1	0	0	0	3	0
August	7.3	SW.	....	.....	0	0	2	2	2	1	18	3	3	0	11	9	11	5	5	0	0	4	0	0	0	2	0
September	7.8	SW.	....	.....	0	2	4	1	2	1	15	2	3	0	16	7	7	8	6	0	0	2	0	1	0	4	0
October	9.5	SW.	....	.....	1	2	7	2	1	1	10	0	8	0	14	10	7	7	5	0	0	0	0	0	0	0	0
November	9.7	NW.	....	.....	0	1	5	2	1	5	6	2	8	0	8	6	16	14	13	0	0	5	0	0	2	1	0
December	11.0	SW.	....	.....	5	3	6	1	4	1	8	2	6	0	9	7	15	10	9	3	0	0	1	0	13	1	0
Year	9.0	SW.	....	.....	9	25	54	15	22	20	138	25	66	0	138	76	151	127	105	14	0	46	14	2	82	18	1

WALLA WALLA, WASH.

[H = 1,018 ft.; h_t = 65 ft.; h_r = 56 ft.; h_a = 73 ft.]

January	5.8	S.	42	SW.	1	2	1	10	6	28	12	0	3	0	6	14	11	18	12	10	0	0	9	0	27	0	0
February	5.9	S.	29	SW.	0	5	2	3	4	25	8	5	4	0	7	16	5	5	3	0	0	0	2	0	10	0	0
March	7.1	S.	34	SW.	0	10	1	8	2	21	12	7	1	0	10	12	9	6	4	1	0	0	0	0	7	0	0
April	6.3	S.	50	SW.	1	7	0	8	7	14	9	13	2	0	9	16	5	7	6	0	0	0	0	0	1	0	0
May	6.8	S.	25	S.	0	8	3	6	1	22	12	9	1	0	10	15	6	10	5	0	1	0	0	1	0	0	0
June	6.4	S.	27	E.	0	11	5	9	0	17	12	5	1	0	12	18	0	2	0	0	0	0	0	5	0	0	0
July	6.3	S.	29	N.	0	9	5	2	3	22	10	8	3	0	15	16	0	4	3	0	0	0	0	9	0	1	0
August	5.1	S.	26	S.	0	9	0	1	3	24	13	9	3	0	21	10	0	2	2	0	0	0	0	9	0	2	0
September	5.8	SW.	30	SW.	0	3	2	4	6	19	21	4	1	0	12	9	9	11	10	0	0	0	0	0	0	0	0
October	3.6	S.	19	SW.	0	0	1	10	13	15	14	7	1	1	23	8	0	0	0	0	0	0	0	0	3	0	0
November	5.7	S.	37	S.	0	5	1	6	1	31	9	5	2	0	12	11	7	7	6	0	0	0	0	0	10	0	0
December	6.0	S.	40	S.	1	4	3	4	3	32	7	8	1	0	2	15	14	15	9	5	0	3	2	0	18	0	0
Year	6.1	S.	50	SW.	3	73	24	71	49	270	139	80	23	1	139	160	66	87	60	16	1	3	13	24	76	3	0

WASHINGTON, D. C.

[H = 112 ft.; h_t = 59 ft.; h_r = 42 ft.; h_a = 76 ft.]

January	6.7	S.	28	NW.	0	11	7	0	4	11	7	9	12	1	7	8	16	13	11	6	0	0	8	0	26	0	0
February	9.3	NW.	42	NW.	2	7	1	0	0	9	3	11	23	2	14	9	5	6	5	5	0	0	10	0	26	0	0
March	9.3	NW.	39	NW.	0	13	8	0	4	15	1	7	13	1	12	10	9	14	10	1	0	0	0	0	13	0	0
April	8.7	NE.	28	NW.	0	4	14	4	9	11	1	7	10	0	11	8	11	13	11	0	1	0	0	0	0	1	0
May	6.7	S.	30	N.	0	7	7	6	9	10	6	9	5	3	9	13	9	17	12	0	0	1	0	4	0	3	0
June	5.4	NE.	38	NW.	0	7	12	6	7	10	5	3	9	1	16	9	5	12	9	0	0	0	0	5	0	11	0
July	4.9	NW.	36	NW.	0	6	2	3	2	12	9	6	18	4	14	7	10	14	11	0	0	0	0	4	0	7	0
August	5.1	S.	25	NW.	0	3	6	3	11	14	9	6	9	1	18	12	1	9	6	0	0	0	0	10	0	5	0
September	5.4	S.	28	NW.	0	9	10	4	6	14	4	5	7	1	18	11	1	5	4	0	0	0	0	8	0	3	0
October	7.1	NW.	34	NW.	0	14	4	1	0	13	2	10	16	2	25	4	2	4	4	0	0	0	0	0	4	0	0
November	6.3	N.	28	NW.	0	14	9	2	4	9	2	4	12	4	14	6	10	12	7	0	0	4	0	0	7	0	0
December	7.0	S.	42	SW.	1	15	3	6	6	9	7	6	9	1	11	7	13	9	8	1	0	1	3	0	17	0	0
Year	6.8	NW.	42	SW. NW.	3	110	83	35	62	137	56	83	143	21	169	104	92	128	98	13	1	6	21	31	93	30	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

WICHITA, KANS.

[λ = 37° 41′ N.; φ = 97° 20′ W.; gravity corr., −0.02.]

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	28.60	29.25	28.06	21.7	30.4	36.7	19.0	27.8	69	−1	17	21	80	69	.107	.124	0.57	0.26	5.0	4.3	4.8
February	28.76	29.22	28.36	19.9	30.1	37.1	17.0	27.0	68	−13	16	21	85	72	.118	.140	1.19	1.11	5.6	4.5	5.4
March	28.57	28.94	28.11	36.0	50.1	58.1	32.5	45.3	91	7	26	29	68	48	.155	.175	1.81	1.26	3.5	3.8	3.3
April	28.48	28.91	27.75	52.5	66.7	73.8	48.4	61.1	92	33	43	46	71	50	.283	.319	.40	.18	4.4	3.8	3.9
May	28.51	28.92	28.09	59.5	72.7	79.5	55.3	67.4	95	40	51	50	75	48	.402	.385	2.77	1.16	4.3	4.4	4.4
June	28.58	28.81	28.31	67.7	79.7	85.3	63.7	74.5	101	52	61	59	79	53	.542	.518	4.47	1.85	5.0	3.7	4.1
July	28.56	28.82	28.25	69.9	80.8	86.5	66.8	76.6	101	55	65	66	85	63	.627	.655	2.74	.67	5.4	3.9	4.6
August	28.53	28.78	28.36	69.4	80.8	87.3	66.9	77.1	95	59	66	70	90	71	.646	.754	7.67	3.09	4.0	3.3	4.4
September	28.55	28.98	28.18	66.6	78.3	86.6	63.7	75.2	100	34	58	57	74	49	.516	.507	.86	.73	2.4	1.8	2.0
October	28.70	28.97	28.30	44.7	58.4	67.0	42.7	54.8	83	29	33	34	64	43	.200	.212	.81	.37	3.4	1.8	3.1
November	28.64	28.94	28.16	36.0	46.0	53.0	33.9	43.4	74	14	31	35	81	68	.180	.214	1.80	1.01	5.0	4.3	4.7
December	28.60	29.00	28.16	28.6	37.2	44.2	26.5	35.4	66	6	22	27	76	66	.123	.146	1.37	.89	4.5	3.3	4.2
Year	28.59	29.25	27.75	47.7	59.3	66.3	44.7	55.5	101	−13	41	43	77	58	.325	.346	26.46	3.09	4.4	3.6	4.1

WILLISTON, N. DAK.

[λ = 48° 09′ N.; φ = 103° 35′ W.; gravity corr., +0.01.]

January	27.96	28.55	27.44	−4.5	−0.1	8.2	−10.1	−1.0	30	−36	−10	−6	76	74	.027	.033	0.53	0.19	4.5	4.9	5.5
February	28.12	28.89	27.53	3.6	13.1	17.9	.6	9.2	56	−40	−1	6	81	75	.056	.075	.47	.18	5.6	6.9	6.1
March	27.94	28.40	27.41	18.0	32.3	38.1	16.2	27.2	71	−15	10	13	68	48	.072	.085	.07	.02	5.5	5.9	5.8
April	27.97	28.32	27.41	38.7	58.8	62.9	37.5	50.2	76	24	28	28	65	34	.154	.158	2.52	1.00	5.7	6.2	5.9
May	27.91	28.41	27.23	45.4	59.8	64.4	42.3	53.4	78	28	34	33	67	40	.209	.201	3.02	1.07	5.7	5.8	6.0
June	27.98	28.22	27.66	52.2	66.6	69.8	48.9	59.4	87	38	45	46	77	50	.303	.320	3.67	1.26	5.6	5.9	5.7
July	27.95	28.26	27.51	59.8	75.4	80.0	57.2	68.6	96	45	52	52	77	46	.395	.391	2.55	1.20	5.5	6.2	5.5
August	27.94	28.28	27.63	53.0	76.2	80.5	50.7	65.6	96	34	44	44	74	33	.304	.294	1.03	.56	4.7	4.7	4.7
September	27.89	28.45	27.23	44.8	62.6	70.2	42.5	56.4	95	17	32	28	62	30	.188	.168	.32	.14	5.1	5.1	4.8
October	28.04	28.35	27.60	31.0	45.9	56.0	28.4	42.2	80	−3	22	24	68	43	.121	.134	.35	.24	3.5	4.6	4.3
November	27.99	28.45	27.56	17.4	21.8	27.6	12.4	20.0	60	−14	12	14	77	72	.083	.093	1.91	1.00	6.3	5.5	6.3
December	27.84	28.50	27.10	14.0	17.9	24.1	8.0	16.0	44	−8	7	12	72	73	.063	.078	.63	.24	3.8	5.4	5.2
Year	27.96	28.89	27.10	31.1	44.2	50.0	27.9	38.9	96	−40	23	24	72	52	.165	.169	17.07	1.60	5.1	5.6	5.5

WILMINGTON, N. C.

[λ = 34° 14′ N.; φ = 77° 57′ W.; gravity corr., −0.03.]

January	30.03	30.31	29.58	41.6	45.8	54.0	38.2	46.1	74	20	36	37	81	74	.235	.241	4.80	1.38	6.0	4.4	5.3
February	30.03	30.44	29.36	32.0	37.4	45.4	29.4	37.4	74	10	26	30	78	75	.150	.172	2.38	.98	5.0	4.0	4.3
March	30.01	30.44	29.54	49.1	52.4	61.9	44.8	53.4	82	29	45	47	86	83	.315	.333	2.94	.59	5.2	4.8	4.7
April	29.95	30.43	29.40	58.2	59.4	69.0	52.7	60.8	81	37	52	55	81	85	.404	.439	6.56	2.72	4.8	4.3	5.2
May	30.01	30.23	29.67	65.2	66.2	75.2	60.5	67.8	96	47	60	61	85	82	.542	.545	4.37	1.67	5.7	4.8	5.5
June	29.99	30.24	29.83	74.9	75.5	86.1	68.7	77.4	100	54	67	68	78	78	.677	.686	2.97	.79	4.8	4.6	3.9
July	29.95	30.13	29.68	76.0	76.6	85.6	70.9	78.2	93	63	70	70	82	82	.737	.747	4.82	1.05	4.5	4.5	4.0
August	29.95	30.12	29.79	77.0	77.3	86.6	71.2	78.9	94	65	72	72	84	84	.777	.780	6.52	2.28	4.3	5.1	4.6
September	30.01	30.25	29.76	72.8	74.6	84.8	68.5	76.6	96	58	66	68	81	80	.666	.691	4.46	2.39	3.9	2.6	2.5
October	30.01	30.36	29.73	57.0	61.3	71.7	52.4	62.0	84	39	48	49	74	66	.361	.368	1.67	1.36	4.2	3.4	2.7
November	30.09	30.46	29.52	51.3	55.0	63.7	48.2	56.0	80	31	47	50	87	84	.358	.382	3.38	1.34	6.5	4.9	5.2
December	30.08	30.56	29.54	42.2	48.7	57.5	39.8	48.6	75	22	37	40	80	71	.239	.273	1.40	.58	4.5	2.9	4.5
Year	30.01	30.56	29.36	58.1	60.8	70.1	53.8	61.9	100	10	52	54	81	79	.455	.471	46.27	2.72	5.0	4.2	4.4

WINNEMUCCA, NEV.

[λ = 40° 58′ N.; φ = 117° 43′ W.; gravity corr., −0.01.]

January	25.58	25.90	24.98	19.5	29.8	33.4	15.8	24.6	48	−14	14	20	80	65	.090	.109	1.40	0.56	5.7	7.3	6.5
February	25.78	26.04	25.33	21.0	37.5	39.8	17.5	28.6	53	0	17	25	84	60	.097	.133	.98	.34	5.0	6.3	5.7
March	25.62	25.94	25.26	29.4	48.3	50.7	26.8	38.3	70	5	19	14	64	27	.102	.081	.45	.13	4.4	5.6	5.0
April	25.67	26.07	25.40	35.4	60.4	62.6	33.2	47.9	78	18	19	6	52	15	.107	.068	.88	.39	3.8	5.5	4.4
May	25.61	25.98	25.26	44.1	66.3	68.0	43.1	55.6	83	31	28	18	53	19	.152	.105	1.43	.94	4.6	5.5	4.6
June	25.70	25.98	25.46	47.8	76.1	77.6	46.2	61.9	92	33	25	17	40	10	.135	.092	.04	.04	2.4	3.5	2.7
July	25.66	25.81	25.38	55.7	82.4	84.4	53.4	68.9	94	43	25	18	32	10	.140	.105	.25	.14	2.1	2.6	2.2
August	25.65	25.86	25.46	56.5	84.0	85.8	53.8	69.8	98	43	26	20	32	11	.142	.112	.10	.10	2.3	2.3	1.8
September	25.64	25.96	25.36	44.7	71.2	73.4	40.7	57.0	86	16	23	18	43	15	.130	.106	.09	.04	2.3	2.7	2.5
October	25.74	25.92	25.60	36.0	65.9	69.5	32.2	50.8	80	18	16	15	43	14	.095	.088	T.	T.	1.3	2.5	1.5
November	25.74	26.21	25.32	24.4	43.7	49.3	20.0	34.6	64	3	13	17	64	35	.797	.973	.33	.12	3.4	5.1	4.2
December	25.77	26.12	25.05	20.8	32.8	38.4	15.1	26.8	54	−12	14	18	75	56	.086	.102	.89	.38	4.5	5.9	5.3
Year	25.68	26.21	24.98	36.3	58.2	61.1	33.2	47.1	98	−14	20	17	55	28	.173	.173	6.84	.94	3.5	4.6	3.9

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

WICHITA, KANS.

[H = 1,351 ft.; h_t = 78 ft.; h_r = 71 ft.; h_a = 85 ft.]

Month.	Wind. By self-registers. Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Maximum temp. Below 32°.	Above 90°.	Minimum temperature below 32°.	Electricity. Thunderstorms.	Aurora.
	Miles.		*Mi.*																								
January	8.9	S.	41	NW.	1	11	12	2	4	16	5	2	10	0	11	12	8	5	4	4	0	1	13	0	27	0	0
February	9.3	N.	49	N.	1	20	4	1	3	16	6	0	6	0	11	6	11	6	2	3	0	2	15	0	23	0	0
March	11.4	S.	44	NE.	3	15	9	2	5	17	5	1	6	2	20	5	6	6	5	4	1	1	2	3	16	2	0
April	10.7	S.	40	NW.	1	11	9	9	10	12	0	0	6	3	15	8	7	7	3	0	1	0	0	1	0	3	0
May	10.5	S.	39	N.	0	6	7	4	9	24	6	1	4	1	15	9	7	8	7	0	1	0	0	6	0	7	0
June	7.9	S.	30	NW.	0	7	11	2	9	19	3	1	5	3	15	10	5	9	7	0	1	0	0	8	0	5	0
July	7.1	S.	37	N.	0	7	14	6	10	16	7	1	0	1	11	13	7	8	8	0	0	2	0	9	0	9	0
August	6.9	S.	30	N.	0	5	5	4	13	24	2	0	2	7	16	4	11	8	7	0	0	2	0	14	0	11	0
September	10.3	S.	28	S.	0	5	6	2	15	29	2	0	0	1	25	3	2	3	2	0	0	0	0	18	0	3	0
October	7.0	S.	32	N.	0	12	5	6	8	13	9	1	5	3	21	4	6	7	5	0	0	1	0	0	2	0	0
November	10.6	S.	36	NW.	0	14	3	1	4	25	2	1	10	0	15	3	12	7	5	1	0	0	3	0	11	0	0
December	10.9	N.	36	NW.	0	20	3	1	4	14	4	4	10	2	16	7	8	4	4	2	0	1	3	0	24	0	0
Year	9.2	S.	49	N.	6	133	88	40	94	225	51	12	64	23	191	84	90	78	59	14	4	10	36	59	103	40	0

WILLISTON, N. DAK.

[H = 1,875 ft.; h_t = 15 ft.; h_r = 22 ft.; h_a = 31 ft.]

Month.	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.	Aurora.
January	9.3	NW.	42	W.	1	1	0	3	8	6	2	20	22	0	8	17	6	13	3	12	0	0	31	0	31	0	0
February	8.8	NW.	52	NW.	3	2	1	2	6	6	7	12	18	2	9	8	11	11	3	9	0	0	18	0	27	0	2
March	11.5	W.	43	W.	2	6	0	1	9	5	4	21	16	0	6	15	10	6	0	4	0	0	12	0	25	0	3
April	11.1	NW.	50	NW.	2	3	0	10	7	13	1	6	19	1	5	17	8	7	5	1	0	0	0	0	4	1	2
May	10.5	NW.	60	NW.	3	5	8	6	6	9	5	9	11	3	7	15	9	11	7	0	0	0	0	0	4	0	0
June	9.0	NW.	48	S.	1	7	5	5	6	9	6	5	15	2	7	16	7	17	13	0	1	2	0	0	0	11	0
July	9.0	S.	48	W.	1	10	6	5	11	12	2	6	8	2	8	17	6	12	9	0	0	0	0	6	0	10	0
August	9.0	NW.	48	NW.	1	14	1	2	8	12	5	4	14	2	11	16	4	6	5	0	0	0	0	3	0	7	1
September	11.8	NW.	52	W.	4	9	1	4	6	5	4	9	21	1	13	12	5	7	4	0	0	0	0	2	3	1	4
October	9.5	NW.	50	NW.	4	11	2	1	1	9	5	5	25	3	16	11	4	5	3	0	0	1	2	0	14	0	3
November	8.6	N.	46	N.	2	11	1	4	8	10	3	10	11	2	8	7	15	11	6	10	0	0	15	0	28	0	2
December	10.4	W.	54	W.	5	11	1	1	5	8	5	19	12	0	10	13	8	10	5	9	0	1	21	0	30	0	0
Year	9.9	NW.	60	NW.	29	90	26	44	81	104	49	126	192	18	108	164	93	116	63	45	1	4	99	11	166	30	17

WILMINGTON, N. C.

[H = 78 ft.; h_t = 82 ft.; h_r = 76 ft.; h_a = 88 ft.]

Month.	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.	Aurora.
January	9.1	NE.	42	SW.	1	7	11	3	4	4	11	10	11	1	11	9	11	14	9	0	0	1	1	0	6	1	0
February	9.5	NW.	46	NW.	2	6	15	0	1	0	9	9	15	1	15	3	10	8	6	4	1	0	4	0	18	0	0
March	9.7	SW.	36	SW.	0	7	11	5	4	4	20	3	8	0	14	6	11	12	10	0	0	0	0	0	1	1	0
April	9.8	S.	36	W.	0	6	6	7	5	11	14	4	7	0	12	5	13	16	14	0	0	0	0	0	0	3	0
May	7.9	S.	27	NW.	0	2	14	3	7	12	10	6	8	0	9	10	12	10	7	0	0	0	0	2	0	1	0
June	7.6	S.	30	NW.	0	4	7	2	0	19	16	7	5	0	16	5	9	10	8	0	0	0	0	8	0	6	0
July	7.6	SW.	30	S.	0	4	9	4	5	9	20	9	2	0	18	4	9	12	9	0	0	0	0	7	0	8	0
August	5.9	S.	35	N.	0	2	8	7	6	9	13	12	4	1	14	9	8	15	11	0	0	0	0	6	0	7	0
September	6.5	NE.	24	E.	0	4	22	4	3	9	7	5	6	0	22	6	2	7	7	0	0	0	0	5	0	3	0
October	8.5	NE.	25	NE.	0	13	16	3	3	5	5	4	11	2	21	5	5	3	2	0	0	1	0	0	0	0	0
November	8.9	NE.	38	NW.	0	6	21	1	2	6	8	5	11	0	11	8	11	13	2	0	0	0	0	0	1	0	0
December	8.8	NW.	48	W.	2	6	9	6	9	4	9	5	13	1	14	6	11	7	12	0	0	1	0	0	7	0	0
Year	8.3	NE.	48	W.	5	67	149	45	49	92	142	79	101	6	177	76	112	127	102	4	1	3	5	28	33	30	0

WINNEMUCCA, NEV.

[H = 4,340 ft.; h_t = 59 ft.; h_r = 52 ft.; h_a = 70 ft.]

Month.	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.	Aurora.
January	10.7	SW.	60	S.	2	4	16	11	1	3	21	5	0	1	8	6	17	15	9	11	0	5	13	0	28	0	0
February	9.2	NE.	27	N.	0	9	21	11	0	2	7	4	1	1	8	7	13	10	8	6	0	0	4	0	25	0	0
March	10.9	SW.	52	SW.	5	8	11	5	0	4	23	8	3	0	11	10	10	7	4	6	0	0	1	0	24	0	0
April	11.1	SW.	46	SW.	4	8	7	10	1	6	17	8	1	2	12	10	8	3	3	2	0	0	0	0	10	0	0
May	11.8	SW.	68	SW.	2	6	10	6	1	5	20	12	2	0	12	10	9	6	3	1	0	0	0	0	2	0	0
June	8.7	NE.	54	W.	2	8	13	6	2	5	11	12	3	0	20	10	0	1	1	0	0	0	0	2	0	1	0
July	9.2	SW.	60	SW.	1	5	9	10	0	5	19	10	4	0	22	7	2	3	2	0	1	0	0	6	0	2	0
August	8.5	SW.	36	SW.	0	7	8	9	0	4	19	6	8	1	22	9	0	1	1	0	1	0	0	12	0	1	0
September	10.0	W.	50	SW.	2	8	12	2	1	3	12	18	4	0	21	6	3	4	1	0	0	0	0	0	4	0	0
October	7.9	NE.	38	S.	0	6	28	12	1	2	6	3	4	5	24	7	0	0	0	0	0	0	0	0	16	0	0
November	9.1	NE.	44	NW.	1	9	18	6	1	2	16	5	2	1	13	13	4	6	3	3	0	0	1	0	25	0	0
December	10.4	E.	58	NW.	5	5	11	18	0	5	15	5	1	2	8	15	8	12	5	11	0	1	10	0	29	0	0
Year	9.8	SW.	68	SW.	24	83	159	106	8	46	186	96	33	13	181	110	74	68	40	40	2	6	29	20	163	4	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

WOODS HOLE, MASS.

[λ = 41° 33′ N.; φ = 70° 40′ W.; gravity corr., — 0.01.]

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	30.00	30.46	29.39	.....	31.6	35.4	25.6	30.5	52	9	....	24	....	73	.....	.140	4.00	0.87	.....	5.1	5.9
February	29.83	30.36	28.80	.....	25.5	30.1	18.2	24.2	41	— 1	....	18	....	73	.....	.107	1.02	.65	.....	2.9	3.6
March	29.93	30.49	29.51	.....	34.9	39.0	28.8	33.9	46	19	....	26	....	71	.....	.146	3.87	1.13	.....	3.7	5.1
April	30.02	30.66	29.31	.....	42.8	48.5	37.3	42.9	61	28	....	37	....	80	.....	.224	3.20	.87	.....	4.3	5.6
May	30.02	30.43	29.66	.....	58.0	59.1	47.3	53.2	79	34	....	48	....	83	.....	.339	3.44	.85	.....	3.9	4.7
June	30.05	30.45	29.79	.....	62.3	68.7	57.9	63.3	85	50	....	58	....	88	.....	.496	2.04	.87	.....	4.1	4.9
July	29.92	30.15	29.70	.....	66.7	72.0	62.0	67.0	80	54	....	62	....	84	.....	.556	4.42	1.38	.....	4.5	4.5
August	29.92	30.20	29.66	.....	69.0	73.9	64.5	69.2	80	57	....	63	....	82	.....	.579	3.34	1.35	.....	2.5	3.3
September	30.01	30.33	29.68	.....	64.5	69.4	59.6	64.5	84	47	....	57	....	78	.....	.491	1.22	.64	.....	2.8	3.6
October	29.99	30.56	29.33	.....	52.0	55.7	45.6	50.6	66	34	....	40	....	65	.....	.264	2.90	2.16	.....	2.8	3.2
November	30.14	30.62	29.11	.....	47.4	51.0	41.5	46.2	62	25	....	41	....	79	.....	.272	4.61	1.23	.....	5.0	5.8
December	30.08	30.70	29.48	.....	38.4	42.6	32.6	37.6	57	18	....	32	....	76	.....	.189	3.35	1.04	.....	6.0	5.5
Year	a29.99	30.70	28.80	.....	49.0	53.8	43.4	48.6	85	— 1	....	42	....	78	.....	.317	37.41	2.16	.....	4.0	4.6

a From 8 p. m. readings only.

YUMA, ARIZ.

[λ = 32° 45′ N.; φ = 114° 36′ W.; gravity corr., — 0.03.]

January	29.86	30.22	29.56	47.4	59.8	64.7	44.4	54.6	75	35	35	34	63	39	.210	.205	0.78	0.78	3.2	3.5	3.4
February	29.88	30.39	29.64	50.7	69.9	73.7	47.6	60.6	84	38	32	30	50	24	.185	.172	.02	.02	1.3	2.9	2.4
March	29.80	30.02	29.63	52.6	75.3	78.8	50.2	64.5	97	38	36	30	57	19	.221	.166	T.	T.	2.1	2.9	2.1
April	29.76	30.16	29.54	55.8	83.4	86.8	53.6	70.2	98	45	38	31	55	16	.242	.179	.00	.00	1.6	1.9	1.6
May (a)	29.64	29.81	29.42	65.6	91.3	94.9	63.5	79.2	109	54	44	38	49	17	.301	.232	.00	.00	1.4	1.7	1.4
June	29.64	29.77	29.49	69.3	98.4	102.0	67.4	84.7	109	53	52	41	56	15	.404	.272	T.	T.	.8	.6	.7
July	29.63	29.77	29.47	75.6	100.1	104.8	73.7	89.2	113	67	60	53	60	23	.527	.428	.01	.01	.5	1.6	1.4
August	29.62	29.83	29.49	78.8	100.4	104.2	77.6	90.9	114	64	66	58	66	26	.656	.498	T.	T.	1.1	1.4	1.2
September	29.63	29.91	29.45	70.1	94.0	100.3	68.1	84.2	107	58	52	50	56	25	.420	.398	T.	T.	.9	1.6	1.4
October	29.72	29.91	29.42	63.0	82.9	90.0	61.0	75.5	99	54	51	49	66	33	.381	.358	.15	.10	1.0	.8	1.2
November	29.85	30.21	29.45	51.3	66.2	73.8	47.9	60.8	85	34	36	38	58	36	.218	.229	.37	.37	1.3	1.8	1.4
December	29.97	30.35	29.64	45.4	59.6	66.5	41.6	54.0	80	30	23	24	43	26	.133	.134	.00	.00	1.3	2.2	1.5
Year	29.75	30.39	29.42	60.5	81.8	86.7	58.0	72.4	114	30	44	40	57	25	.325	.273	1.33	.78	1.4	1.9	1.6

a One 8 a. m. observation taken late.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1895—Continued.

WOODS HOLE, MASS.

[H = 22 ft.; h_t = 51 ft.; h_r = 39 ft.; h_a = 57 ft.]

Month.	Wind.														Number of days.												
	By self-registers.					Number of winds, 8 a. m. and 8 p. m.												Precipitation.					Maximum temp.			Electricity.	
	Average hourly velocity.	Prevailing direction. (a)	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	Snow.	Hail.	Fog.	Below 32°.	Above 90°.	Minimum temperature below 32°.	Thunderstorms.	Auroras.
	Miles.		*Mi.*																								
January	16.1	W.	54	SW.	9	2	3	1	3	0	6	10	5	1	10	8	13	15	15	6	0	0	13	0	24	0	0
February	17.7	W.	70	SW.	7	0	2	0	0	4	8	9	4	1	15	6	7	4	3	4	0	0	16	0	28	0	2
March	16.5	W.	48	W.	5	2	1	5	1	5	4	8	5	0	13	7	11	12	12	4	0	1	3	0	23	1	1
April	13.8	S.	48	SE.	2	4	3	1	6	6	5	2	1	2	12	4	14	11	11	0	0	2	0	0	2	0	0
May	12.7	S.	40	SW.	4	2	2	0	5	10	9	2	1	0	13	8	10	8	8	0	0	2	0	0	0	0	0
June	9.7	S.	38	NW.	0	4	2	3	5	9	5	1	0	1	12	10	8	8	8	0	0	5	0	0	0	4	0
July	11.5	S.	36	SW.	0	1	1	1	1	14	9	0	3	1	12	13	6	9	7	0	0	0	0	0	0	3	0
August	12.8	S.	36	SW.	0	3	0	2	4	11	9	2	0	0	20	8	3	5	4	0	1	1	0	0	0	2	0
September	13.0	S.	48	SW.	1	2	1	4	5	9	6	1	2	0	16	8	6	9	7	0	0	0	0	0	0	4	0
October	16.9	W.	48	NW.	5	6	2	1	3	4	3	7	5	0	19	6	6	8	5	0	0	0	0	0	0	0	1
November	14.7	S.	52	SW.	4	4	1	1	4	9	5	2	4	0	12	3	15	13	13	0	0	4	0	0	2	0	0
December	19.0	NW.	66	SW.	7	4	1	2	3	5	6	2	8	0	12	6	13	9	8	4	0	0	4	0	16	0	0
Year	14.5	S.	70	SW.	44	34	19	21	40	86	75	46	38	6	166	87	112	111	101	18	1	15	36	0	95	14	4

YUMA, ARIZ.

[H = 141 ft.; h_t = 16 ft.; h_r = 2 ft.; h_a = 50 ft.]

January	7.4	N.	39	SE.	0	30	7	2	3	6	2	4	7	1	19	7	5	1	1	0	0	0	0	0	0	0	0
February	7.5	N.	38	N.	0	19	10	1	2	4	2	4	14	0	20	7	1	1	0	0	0	0	0	0	0	1	0
March	7.5	W.	34	W.	0	5	15	6	1	5	9	11	10	0	22	8	1	0	0	0	0	0	0	3	0	0	0
April	7.3	W.	46	NW.	1	7	7	4	1	6	7	14	11	3	26	4	0	0	0	0	0	0	0	11	0	0	0
May	8.0	SW.	39	NW.	0	6	2	4	2	8	19	10	7	4	27	4	0	0	0	0	0	0	0	23	0	0	0
June	5.2	SW.	24	SE.	0	2	2	5	4	5	16	9	2	15	28	2	0	0	0	0	0	0	0	28	0	0	0
July	6.8	SW.	45	N.	1	5	7	3	9	5	16	8	9	0	27	4	0	1	0	0	0	0	0	31	0	3	0
August	7.5	SW.	32	SE.	0	7	6	3	6	12	19	5	3	1	27	3	1	0	0	0	0	0	0	31	0	2	0
September	6.1	W.	28	N.	0	4	11	3	7	5	6	15	7	2	23	7	0	0	0	0	0	0	0	27	0	1	0
October	5.1	NE.	21	W.	0	11	15	5	3	6	6	10	4	2	28	2	1	3	2	0	0	0	0	14	0	2	0
November	6.8	N.	34	SE.	0	20	14	6	3	2	4	2	8	1	23	7	0	2	2	0	0	0	0	0	0	0	0
December	7.3	N.	45	NE.	1	25	16	2	2	3	0	1	12	1	28	2	1	0	0	0	0	0	0	0	4	0	0
Year	6.9	N.	46	NW.	3	141	112	44	43	67	106	93	94	30	298	57	10	8	5	0	0	0	0	168	4	9	0

a By eye observations at 8 a. m. and 8 p. m. when there is no self-register at station.

Blank page retained for pagination

PART IV.

MONTHLY AND ANNUAL MEAN TEMPERATURE AND ANNUAL EXTREMES OF TEMPERATURE, TOGETHER WITH THE DATES OF FIRST AND LAST KILLING FROST.

The monthly and annual averages given in the following tables are taken largely from the records of voluntary (unpaid) observers. The paid stations of the Weather Bureau are indicated by an asterisk (*). The records of voluntary observers are given as made; no attempt has been made to reduce them to a homogeneous system. About two-thirds of the voluntary observers have standard instruments, but very few have what may be called standard shelters. The hours of observation at the regular stations of the Weather Bureau have already been described; the observing hours at voluntary stations vary greatly. The letters "*a*," "*b*," etc., following the name of a station, have the following significance:

a=mean temperature computed by the formula $\frac{1}{4}(7+2+9+9)$.
b=mean temperature computed by the formula $\frac{1}{2}(8+8)$.
c=mean temperature computed by the formula $\frac{1}{2}(7+7)$.
d=mean temperature computed by the formula $\frac{1}{2}(6+6)$.
e=mean temperature computed by the formula $\frac{1}{2}(7+2)$.
f=from various hours reduced to true mean by special table.
g=mean temperature computed by the formula $\frac{1}{3}(7+2+9)$. (Southern Pacific Railway.)

The absence of a letter indicates that the mean has been made as follows: $\frac{\text{Mean max.}+\text{mean min.}}{2}$

The small roman letters in the body of the tables indicate the number of days missing from the records, thus "*c*" indicates three days missing, etc.

The dates of last killing frost in spring and first in autumn are given at the right of the table. Many observers, however, do not report dates of frost, and still others do not distinguish between light and killing frost. The date of the first and the last occurrence of a minimum temperature of 32° has been used in all cases where no frost reports were made. Data for stations so entered have been distinguished from regular frost reports by a dagger (†).

Bracketed values have been supplied by interpolation.

Blank page retained for pagination

MONTHLY AND ANNUAL MEAN TEMPERATURE, ANNUAL EXTREMES OF TEMPERATURE, AND DATES OF LAST KILLING FROST IN SPRING AND FIRST KILLING FROST IN AUTUMN, 1895.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
Alabama.														*Max.*	*Min.*		
Alco	49.2	43.2	59.2	65.2	71.9	78.2	80.6	81.2	79.0	63.4	56.3	48.7	64.7	99	11	Mar. 21	Nov. 4
Ashville (*a*)	[e]37.9	34.3	51.7	64.4	71.6	81.4	81.8	82.0	75.6	57.4	50.7	42.8	61.0	100	2	Apr. 4	Oct. 21
Bermuda	47.6	43.4	58.4	[f]63.6	70.8	77.2	80.8	79.4	78.4	63.0	56.2	49.6	64.0	94	9	Mar. 20	Nov. 3
Birmingham	.....	.....	.....	[d]60.8	[d]73.5	[e]82.2	[e]84.2	[d]83.8	[e]79.2	61.2	.....	.....	.....	99	.....	.....	Nov. 2
Brewton	46.8	42.6	57.0	63.8	71.0	78.9	81.2	81.0	78.6	61.3	.....	.....	.....	101	.....	Mar. 20	Nov. 1
Carrollton (*a*)	43.6	37.7	55.1	63.6	69.1	75.6	79.2	79.6	78.4	60.0	53.9	45.6	61.8	90	6	Mar. 21	Nov. 3
Citronelle	49.9	44.0	60.8	67.2	73.2	78.5	80.6	80.2	79.7	66.0	58.0	51.6	65.9	93	12	Mar. 17	Nov. 12
Clanton	.....	.....	.....	.....	69.0	77.6	79.0	79.0	77.2	59.8	54.0	44.8	.....	94	.....	.....	Nov. 2
Collirene (*a*)	45.2	40.6	58.7	66.2	[e]71.3	80.6	83.0	82.7	82.5	66.2	56.3	47.9	65.1	94	10	Mar. 21	Nov. 12
Daphne	[e]49.6	45.2	57.8	64.4	71.6	78.3	79.2	80.5	77.6	66.9	59.2	51.6	65.2	98	8	Mar. 21	Nov. 12
*Decatur	38.2	31.8	50.8	62.0	65.5	75.6	76.4	78.0	74.8	53.8	50.4	41.4	58.2	96	— 2	Apr. 4	Oct. 20
Elba	.....	.....	.....	.....	.....	.....	.....	.....	.....	65.8	55.0	46.2	.....	.....	.....	.....	Oct. 20
*Eufaula	49.4	41.9	58.3	66.0	73.2	81.0	82.2	82.0	81.2	64.6	56.6	47.4	65.3	98	10	Mar. 18	Oct. 27
*Evergreen	47.3	41.4	.....	64.1	71.9	78.6	80.7	80.7	80.0	62.8	54.6	47.8	.....	98	9	.....	Nov. 12
Florence	38.7	33.8	51.2	62.1	67.5	76.5	77.4	78.4	76.0	55.6	51.4	43.6	59.3	94	— 1	Apr. 3	Oct. 20
*Fort Deposit	46.3	39.6	58.0	65.3	71.9	78.6	81.6	81.0	79.6	62.6	[e]55.2	48.8	64.0	97	8	Mar. 18	Nov. 11
*Gadsden	41.6	36.0	52.0	63.2	68.4	76.8	77.8	78.0	76.8	59.0	52.4	42.8	60.4	96	2	Apr. 4	Oct. 21
*Goodwater	.....	.....	.....	.....	.....	.....	[e]81.0	80.4	80.4	62.7	53.8	44.4	.....	.....	.....	.....	Oct. 21
Greensboro	42.6	37.2	55.0	63.6	69.6	77.4	79.7	79.9	78.2	60.8	54.2	45.5	61.8	96	1	Mar. 21	Nov. 10
Healing Springs	42.8	36.9	53.0	61.2	67.0	74.7	77.2	79.0	78.1	60.8	53.8	46.4	60.9	97	7	Mar. 22	Oct. 21
Highland Home	47.2	40.8	58.2	63.0	70.6	77.6	80.0	79.0	79.3	65.0	56.4	48.8	63.8	94	8	Mar. 21	Nov. 12
Jasper	40.4	32.4	50.9	61.4	67.4	75.7	78.4	77.5	78.3	55.4	.....	.....	.....	98	3	Apr. 5	Oct. 2
*Livingston	45.2	39.0	55.7	64.2	70.9	79.0	81.6	81.5	80.2	60.7	55.8	45.3	63.3	98	7	Mar. 20	Oct. 21
Madison Station	39.7	33.4	52.4	62.1	67.2	77.2	78.3	78.6	75.2	55.1	51.2	43.2	59.4	96	— 2	Apr. 4	Oct. 10
Maplegrove	39.8	32.0	53.1	.....	68.2	77.8	78.2	78.2	75.3	54.4	50.8	.....	.....	99	— 2	Mar. 22	Oct. 4
*Marion	.....	37.2	54.9	65.2	71.4	79.8	81.1	81.2	79.6	62.2	51.0	45.5	.....	98	.....	Mar. 21	Nov. 12
*Mobile	48.6	43.5	58.3	66.0	72.5	79.0	81.2	80.8	80.7	65.5	57.7	49.8	65.3	96	12	Feb. 18†	Nov. 27
*Montgomery	46.9	40.0	57.0	64.9	70.8	79.3	81.2	80.9	80.0	63.4	55.8	47.4	64.0	97	8	Mar. 17†	Nov. 12
Mount Willing	47.0	40.0	57.7	64.8	71.0	78.4	80.2	79.4	78.9	63.0	57.3	50.0	64.0	96	17	Mar. 21	Nov. 2
Newbern	43.8	37.2	55.2	64.0	70.6	78.4	80.8	80.7	79.1	61.3	54.4	45.8	62.6	94	7	Mar. 21	Nov. 2
Newburg	39.8	33.7	52.0	61.6	66.8	75.4	[f]76.6	78.0	[d]75.6	56.5	[e]52.4	[e]43.8	59.4	97	— 2	Apr. 4	Oct. 1
Newton	.....	.....	.....	64.3	70.9	79.4	80.3	.....	79.0	64.2	57.2	47.0	.....	.....	.....	.....	Nov. 11
Oneonto	.....	34.7	50.1	60.2	.....	.....	.....	.....	.....	.....	49.8	41.3	.....	.....	.....	Apr. 2	Oct. 21
*Opelika	47.2	39.5	56.8	63.8	70.8	79.2	81.1	80.8	79.9	63.2	54.2	48.0	63.7	96	7	Mar. 21	Nov. 12
Oxanna (*a*)	41.6	33.7	51.4	60.0	64.6	73.7	76.6	76.3	75.2	60.3	50.6	41.8	58.8	94	2	Mar. 21	Oct. 21
*Pineapple	42.5	40.9	56.0	63.6	69.3	79.8	81.4	80.8	78.2	58.6	.....	46.9	.....	98	4	Mar. 10	Oct. 22
Pushmataha	46.9	39.3	56.8	65.4	71.3	79.0	81.2	81.0	79.7	61.1	54.5	47.6	63.7	97	8	Mar. 21	Nov. 3
Rockmills	42.0	35.3	52.0	[e]60.0	68.3	77.7	78.4	78.6	[e]78.2	.....	.....	.....	.....	96	4	Apr. 4	.....
Scottsboro	39.8	33.8	50.9	61.4	67.5	74.4	76.7	77.8	74.4	55.4	51.0	43.0	58.9	97	— 1	Apr. 4	Oct. 20
Starlington (*a*)	.....	36.8	55.1	63.0	69.8	77.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 25	.....
*Thomasville	.....	.....	.....	.....	70.4	78.2	80.3	80.0	80.4	63.2	.....	.....	.....	.....	.....	.....	.....
*Tuscaloosa	42.1	36.2	53.1	63.8	70.7	79.3	81.3	81.4	78.5	59.1	51.8	42.3	61.6	99	6	Apr. 2	Oct. 20
*Tuscumbia	.....	.....	.....	.....	69.2	78.4	79.2	78.4	77.8	54.1	.....	43.6	.....	96	.....	.....	.....
Union	44.2	38.3	55.4	63.8	69.6	77.3	80.2	79.4	78.2	61.4	54.2	47.4	62.4	97	4	Apr. 4	Nov. 2
*Union Springs	46.0	38.5	56.7	64.4	71.8	80.2	82.2	81.3	79.1	62.2	53.8	45.2	63.4	100	6	Mar. 20	Nov. 11
Uniontown	45.2	40.2	57.2	66.2	71.3	[e]79.0	81.4	81.6	80.8	64.2	[e]55.4	47.4	64.2	97	8	Mar. 21	Nov. 12
Valleyhead	39.2	32.0	50.6	59.2	64.6	74.8	75.2	76.6	75.6	55.8	50.2	42.0	58.0	94	— 5	Apr. 4	Nov. 2
Alaska.																	
Coal Harbor	24.0	28.6	27.2	29.7	39.4	45.8	50.6	51.4	47.3	41.0	36.8	25.7	37.3	65	— 9	.....	.....
Holy Cross Mission	—9.6	1.7	14.5	16.0	41.8	50.5	55.1	52.8	.....	.....	.....	.....	.....	.....	.....	.....	.....
Juneau	26.4	.....	.....	.....	.....	.....	55.6	52.7	49.0	.....	.....	.....	.....	.....	.....	.....	.....
Killisnoo	24.3	30.4	33.2	36.2	45.6	50.2	54.6	51.8	44.9	44.8	35.8	31.2	.....	.....	.....	.....	.....
Kodiak	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	36.8	25.0	.....	.....	.....	.....	.....
Point Hope	—8.0	-14.5	—3.7	4.6	26.1	38.4	42.3	43.8	.....	.....	.....	.....	.....	.....	.....	.....	.....
St. Lawrence Island	.....	.....	.....	.....	.....	37.6	43.6	42.8	.....	.....	.....	.....	.....	.....	.....	.....	.....
St. Peters Mission	-18.9	—0.6	1.4	16.8	41.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Yukon Delta	—3.4	—1.0	10.0	12.9	33.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Arizona.																	
Arizona Canal Co.'s dam	.....	56.6	61.1	68.7	.....	77.6	.....	84.3	84.4	76.7	.....	.....	.....	.....	.....	Feb. 14†	.....
Benson (*g*)	45.2	45.9	51.3	66.5	74.3	77.7	85.9	80.1	80.3	70.6	63.7	51.2	60.9	105	30	Mar. —†	.....
Bisbee	44.0	45.2	52.2	60.2	69.4	76.4	76.8	74.1	72.4	[e]62.3	47.4	44.0	60.4	96	16	Apr. 6†	Nov. 24†
Buckeye	53.4	57.4	57.0	64.8	74.6	79.5	84.6	86.0	80.6	70.8	57.1	49.7	68.0	108	20	Mar. 15†	Nov. 24†
Calabasas	46.6	46.0	52.8	60.0	70.0	75.8	79.4	75.7	72.7	61.3	49.5	42.2	61.0	102	13	Apr. 6†	Oct. 30†
Casagrande (*g*)	53.4	53.2	62.6	72.9	81.5	88.5	90.0	88.2	84.0	72.1	58.8	54.4	71.6	109	28	.....	Dec. —†
Dragoon Summit (*e*)	46.0	46.0	51.2	65.1	81.1	82.4	84.8	81.6	81.5	73.1	52.8	44.2	65.8	100	20	Feb. —†	.....
Dudleyville	46.5	47.6	54.7	61.8	71.2	75.2	83.4	81.9	77.0	65.7	50.4	43.3	63.2	109	18	Apr. 1†	Nov. 25
Eagle Pass (*c*)	37.9	36.2	42.6	56.2	67.3	75.2	76.4	74.0	69.8	55.6	42.0	.....	.....	96	.....	Apr. 1	Nov. 15
Farleys Camp	50.0	54.8	59.5	67.8	74.1	81.1	86.0	85.3	80.5	.....	.....	.....	.....	106	.....	Feb. 16	.....

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.
Arizona—Continued.																	
Flagstaff	25.6	28.2	38.3	49.2	54.8	.....	65.6	66.6	59.0	48.2	32.9	27.0	.....	.....	— 7	May 1†	Sept. 22
Fort Apache	37.6	37.8	43.3	51.2	60.1	65.7	72.4	70.9	65.2	54.2	38.7	34.0	52.6	96	10	June —†	Sept. 22†
Fort Grant	[k]44.2	42.7	50.0	61.1	68.2	[e]75.8	[e]76.6	76.7	74.6	62.2	49.4	45.3	60.6	100	13	Apr. 6†	Nov. —†
Fort Huachuca	44.4	46.6	53.0	60.9	67.8	74.9	76.4	73.6	71.8	60.9	48.2	43.6	60.2	98	17	Apr. —†	Nov. —†
Fort Mohave	.....	.....	.....	.....	.....	.....	.....	.....	85.3	75.9	60.0	.....	.....	.....	.....	.....	Nov. 24
Gilabend (*g*)[1]	53.6	56.1	65.7	73.9	82.8	95.0	94.8	94.9	87.6	76.1	62.2	51.8	73.7	114	26	.....	.....
Gilabend[2]	.....	.....	.....	.....	.....	.....	.....	.....	.....	78.5	62.2	53.6	.....	.....	.....	.....	Dec. 17†
Gisela	.....	.....	.....	.....	.....	.....	82.0	81.6	74.9	62.6	[e]50.1	[j]39.2	.....	.....	.....	Apr. 6	Oct. 31
Globe	43.2	.....	.....	.....	.....	78.4	83.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Holbrook	35.4	37.4	45.2	51.9	62.4	67.2	74.0	74.6	68.4	55.6	35.8	27.1	52.9	99	— 8	Apr. 1†	Sept. 22
Keams Canyon	30.1	32.2	43.0	49.8	57.2	62.5	68.0	70.7	.....	.....	.....	.....	.....	.....	.....	June 3†	.....
Maricopa (*g*)	49.9	52.4	60.8	69.1	83.0	88.3	94.1	93.4	85.8	75.7	60.4	49.8	71.9	117	18	.....	.....
Mount Huachuca	43.6	44.8	53.0	59.8	68.6	77.0	76.4	73.9	71.4	60.5	48.2	41.6	59.9	100	12	Mar. 16†	Nov. 13†
Navajo (*e*)	33.7	30.4	50.8	54.2	56.2	61.2	70.7	69.4	67.1	57.4	41.4	.....	.....	.....	.....	Feb. 20†	Nov. —†
Nogales	50.2	53.4	57.2	65.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 1†	.....
Oracle	46.0	47.9	55.4	63.0	71.4	78.6	80.7	77.5	74.7	63.2	49.8	44.0	62.7	102	18	Feb. 16	Nov. 14†
Oro Blanco	.....	.....	.....	.....	75.1	82.0	84.0	79.0	78.6	68.4	54.5	48.7	.....	102	.....	May 28	Oct. 28
Pantano (*g*)	48.3	44.6	57.3	65.9	71.7	86.1	84.1	82.8	79.2	67.8	53.7	45.9	65.6	107	30	.....	.....
Parker	49.9	58.4	61.8	70.1	74.7	.....	.....	.....	.....	74.6	57.7	47.4	.....	.....	15	Apr. 16†	Nov. 23†
Peoria	50.2	53.4	59.5	67.2	77.8	84.0	90.1	90.7	82.8	72.1	56.7	48.1	69.4	112	22	Feb. 16†	Dec. 18†
*Phœnix	.....	.....	.....	.....	.....	.....	.....	88.6	82.4	71.9	57.0	48.8	.....	.....	.....	.....	Dec. 18
Phœnix[3]	.....	.....	.....	[d]74.9	.....	.....	.....	.....	.....	.....	55.2	47.3	.....	.....	.....	.....	Nov. 24
Redrock	46.0	51.5	.....	70.1	88.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Feb. 15†	.....
Reymert	49.1	53.0	61.5	67.2	77.6	.....	84.4	[e]83.5	.....	.....	64.5	42.4	.....	.....	22	Feb. 16†	Nov. 25†
Rye	43.5	46.6	54.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
St. Helena Ranch	.....	.....	.....	64.6	.....	.....	.....	78.6	.....	.....	.....	.....	.....	.....	.....	Apr. 5†	.....
San Carlos	44.0	47.4	54.2	62.4	73.4	.....	.....	[f]84.6	78.6	65.7	51.0	42.1	.....	.....	14	Apr. —†	Nov. —†
San Simon (*g*)	46.6	48.5	60.5	67.8	81.3	86.9	90.8	86.9	80.7	70.8	54.2	43.7	68.2	105	18	.....	.....
Signal	47.6	54.0	58.4	66.2	76.2	82.6	87.4	90.3	81.4	71.2	54.9	46.5	68.1	113	18	Mar. 16†	Nov. 25
Texas Hill (*g*)	53.0	59.4	66.5	75.2	86.0	91.4	95.7	97.0	87.3	77.3	58.3	45.3	74.4	117	18	.....	.....
*Tucson	50.7	52.4	58.4	65.1	73.8	80.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 31	.....
Tucson[4]	.....	.....	.....	.....	.....	.....	88.0	87.2	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tucson[5]	52.0	53.9	59.0	65.4	74.7	81.1	86.2	82.8	80.8	68.8	55.1	48.5	67.4	108	14	Apr. 7†	Nov. 15†
Walnut Ranch (*a*)	41.6	42.2	49.5	[g]56.2	64.2	74.4	73.6	71.1	69.2	60.4	45.5	39.6	57.3	94	11	Apr. 1†	Dec. 29†
Wells	.....	.....	.....	.....	.....	91.8	96.7	93.9	82.7	71.0	55.0	45.8	.....	116	.....	.....	.....
Whipple Barracks	35.2	39.2	44.6	51.8	59.8	65.6	71.4	73.4	66.2	55.1	40.6	34.5	53.1	100	6	June 2†	Sept. 22†
Willcox (*g*)	47.5	43.8	53.6	61.3	73.9	81.2	86.9	79.2	74.9	60.0	46.1	41.5	62.5	103	15	.....	.....
*Yuma	54.6	60.6	64.5	70.2	79.2	84.7	89.2	90.9	84.2	75.5	60.8	54.0	72.4	114	30	Dec. 31†	Dec. 19
Arkansas.																	
*Beebranch	[f]39.8	.....	51.0	62.4	.....	75.6	78.0	78.8	78.8	58.3	49.8	45.6	.....	102	.....	Mar. 21	Oct. 20
Blanchard Springs	40.8	35.9	54.9	63.3	69.4	77.0	79.6	79.7	77.6	59.4	52.5	46.1	61.4	99	0	Mar. 21	Oct. 10
*Brinkley	39.0	36.1	54.8	64.4	70.1	78.8	80.4	80.1	77.3	55.6	51.3	46.1	61.2	98	0	Mar. 21	Oct. 9
Camden	40.2	36.0	54.6	62.8	70.2	78.1	80.4	79.4	77.3	57.2	51.1	45.6	61.1	99	— 2	Mar. 21	Oct. 20
Conway (*a*)	35.5	33.6	51.1	62.4	67.7	75.6	78.0	77.4	76.6	55.5	48.4	42.8	58.7	96	— 5	Mar. 21	Oct. 2
Corning	31.6	28.2	45.8	61.5	67.6	76.6	77.7	79.0	73.8	51.8	46.0	39.3	56.6	99	— 8	Mar. 21	Sept. 30
Dallas	37.2	34.2	51.6	61.9	68.0	76.3	78.2	79.4	76.4	57.6	[e]49.1	[k]40.0	59.2	97	— 6	Mar. 21	Oct. 28
Elon	[e]42.2	.....	.....	.....	.....	77.5	81.0	80.9	79.0	62.4	55.1	50.0	.....	99	.....	Mar. 21	Oct. 10
Fayetteville	33.6	30.6	49.7	60.1	66.7	73.9	76.0	77.0	74.4	55.6	47.0	41.0	57.1	94	—11	Apr. 3	Sept. 30
Forrest	37.6	33.6	52.6	63.1	68.8	77.8	79.0	79.7	77.2	57.6	[e]52.8	45.2	60.4	97	— 7	Mar. 21	Oct. 9
*Fort Smith	33.8	33.0	50.9	61.6	67.8	75.2	77.4	78.4	76.2	56.8	48.0	42.6	58.4	97	— 7	Mar. 17	Oct. 28
*Helena	39.4	34.1	52.2	66.2	71.6	79.8	82.0	82.8	81.0	61.2	52.0	44.4	60.6	105	0	Mar. 21	Oct. 9
Hot Springs	37.2	.....	54.2	64.2	69.8	78.4	80.2	80.6	79.2	61.0	.....	45.8	.....	100	.....	Mar. 21	Oct. 28
Keesees Ferry	32.6	29.5	48.8	61.8	67.2	74.9	76.2	77.2	74.4	54.2	46.3	41.2	57.0	99	—11	Apr. 3	Sept. 30
Kirby	.....	[f]30.8	53.8	63.2	.....	.....	.....	.....	.....	[e]59.8	50.0	44.4	.....	.....	.....	Mar. 21	Nov. 2
Lacrosse	[f]32.6	[d]31.7	48.4	61.7	66.2	75.3	76.2	77.5	75.2	55.2	46.6	39.2	57.1	96	— 9	Mar. 21	Oct. 20
*Little Rock	37.2	34.6	52.4	63.2	68.6	77.2	79.3	79.6	78.0	58.6	50.2	44.2	60.3	96	— 2	Mar. 21	Nov. 11
Lonoke (*c*)	37.7	34.0	51.8	61.6	67.4	76.1	78.6	78.2	76.3	55.0	49.1	44.2	59.2	99	1	Mar. 21	Oct. 9
Luna Landing (*f*)	43.3	[e]37.2	56.5	64.9	70.5	78.1	80.7	81.0	79.4	58.3	54.1	48.0	62.7	98	4	Mar. 17	Nov. 11
Madding (*b*)	.....	.....	51.0	62.0	68.5	78.2	80.2	83.2	82.3	.....	56.2	50.0	.....	.....	.....	Mar. 21	.....
*Malvern	.....	.....	53.3	63.4	70.1	77.9	80.5	80.2	77.9	55.6	48.6	41.8	.....	100	.....	Mar. 21	Oct. 21
Mossville	.....	29.6	47.8	59.8	64.6	71.8	74.2	75.8	.....	[k]58.8	.....	.....	.....	.....	.....	Mar. 21	Oct. 10
Mount Ida	.....	.....	.....	.....	.....	77.2	79.8	79.8	75.8	.....	.....	.....	.....	.....	.....	.....	.....
Mount Nebo	30.7	29.5	47.6	57.6	61.7	.....	77.5	76.2	74.6	59.2	48.4	41.6	.....	.....	.....	Mar. 21	Nov. 10
New Gascony (*a*)	[k]39.2	[f]33.8	[k]50.9	[e]63.8	[f]71.0	[e]78.9	81.0	80.7	78.0	[f]58.0	[d]49.9	[e]47.5	61.1	95	— 4	Mar. 21	Nov. 11
*Newport[6]	36.4	33.4	52.3	63.7	69.6	78.4	78.6	79.6	76.8	55.0	48.8	42.2	59.6	100	— 5	Mar. 21	Oct. 2
Newport[7]	35.4	32.3	50.5	62.0	67.6	76.1	77.0	77.6	75.6	54.8	48.5	43.3	58.4	98	— 4	Mar. 21	Oct. 2
Osceola	36.2	33.0	51.0	62.2	68.3	77.7	77.3	79.4	76.8	56.0	49.3	44.0	59.3	96	— 3	Mar. 21	Oct. 20
Ozark	36.7	35.4	53.3	64.4	69.6	76.8	79.2	80.4	78.7	59.5	50.0	43.2	60.6	100	— 4	Mar. 21	Nov. 2
*Pinebluff	.....	.....	54.6	65.1	70.4	78.3	80.6	82.2	80.2	58.6	53.8	49.0	.....	101	.....	Mar. 21	Oct. 28
Pocahontas	[e]32.3	29.1	47.8	64.0	.....	[f]75.8	.....	[e]78.2	73.4	52.3	44.8	38.6	.....	.....	—17	Mar. 21	Oct. 12
*Prescott	.....	.....	.....	.....	71.1	78.2	81.1	80.8	78.6	59.0	.....	.....	.....	99	.....	.....	.....
Rison	38.6	34.3	52.8	63.9	68.8	76.9	79.4	79.6	78.0	55.9	50.6	45.1	60.3	98	0	Mar. 21	Oct. 9
Rogers	27.2	[e]31.1	47.2	59.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 21	.....
*Russellville	36.0	34.0	52.0	63.0	69.2	77.4	79.8	79.0	77.0	56.4	.....	.....	.....	98	.....	Mar. 21	Nov. 2
Searcy	44.6	.....	54.5	65.6	69.2	.....	78.6	77.8	73.0	.....	.....	.....	.....	.....	.....	Mar. 21	.....
Silver Springs	.....	.....	.....	.....	.....	.....	.....	.....	.....	51.2	44.6	39.4	.....	.....	.....	.....	Oct. 20
Stuttgart	38.6	35.2	52.8	64.2	69.4	78.4	80.4	79.5	77.6	56.1	50.1	44.1	60.5	98	1	Mar. 21	Oct. 28
*Texarkana	42.4	38.4	56.8	67.8	71.5	79.4	82.4	83.2	79.6	59.6	48.8	44.1	62.7	98	1	Mar. 21	Nov. 25
Warren	.....	.....	.....	.....	.....	.....	.....	81.2	79.6	59.1	52.4	[l]46.2	.....	.....	.....	.....	Oct. 10
Washington	40.0	36.6	54.3	64.2	69.5	76.9	79.1	79.6	77.8	59.5	52.2	46.0	61.3	95	— 1	Mar. 17	Oct. 28
Winslow	31.4	29.2	46.2	59.4	64.2	71.8	73.5	75.0	72.0	54.5	45.4	35.3	54.8	88	—14	Mar. 21	Oct. 9
Witts Springs	.....	.....	.....	.....	.....	.....	[e]72.6	73.9	71.8	[e]52.4	46.3	40.2	.....	.....	.....	.....	Sept. 30

[1] Southern Pacific Railroad.
[2] W. C. Foster.
[3] Agricultural Experiment Station.
[4] E. L. Wetmore.
[5] University of Arizona.
[6] Cotton region observer.
[7] G. B. Irby.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.																	
Adin	25.4	30.9	37.8	46.7	52.8	58.5	64.6	67.2	55.7	54.6	38.2	29.0	46.8	103	—19	.....	.....
Ager	34.4	41.2	44.6	53.7	59.2	[a]69.9	73.8	73.6	61.3	59.5	40.6	31.6	53.6	106	4	.....	.....
Agnew	.....	51.3	51.4	53.4	56.4	61.4	63.2	65.5	60.9	58.8	52.4	45.3	.....	94	.....	.....	.....
Arlington Heights	49.4	54.2	54.2	59.1	65.5	68.6	71.2	71.2	70.2	64.9	56.8	52.0	61.4	100	29	.....	.....
Athlone (g)	46.7	51.5	56.3	67.5	67.2	85.9	86.4	87.4	77.3	66.4	50.0	43.4	65.5	114	24	.....	.....
Bakersfield	48.5	57.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Barstow	41.8	46.4	49.8	57.2	65.0	74.2	62.8	.....	66.8	64.2	55.4	43.2	.....	.....	.....	.....	.....
Berkeley	46.6	52.3	51.5	55.0	60.0	62.3	.....	62.2	61.5	59.2	54.8	46.8	.....	.....	.....	.....	.....
Bethany (a)	47.2	51.8	52.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bishop	[b]33.2	43.6	46.2	54.1	61.8	66.7	72.1	73.0	[b]64.0	53.7	43.0	33.6	53.8	103	9	.....	.....
Bishop Creek (g)	36.0	44.9	51.5	61.7	71.3	74.5	83.6	82.6	67.8	56.6	48.0	30.3	59.1	106	7	.....	.....
Boca (g)	26.1	29.3	32.2	38.8	52.7	57.4	60.1	57.9	51.6	48.2	38.7	31.2	43.7	96	—23	.....	.....
Bodie	.....	.....	26.6	33.8	44.6	51.7	57.6	56.0	46.7	38.4	27.2	20.6	.....	89	.....	.....	.....
Borden (g)	47.1	53.7	57.3	62.3	69.9	81.5	80.9	81.3	70.9	67.1	50.8	47.9	64.2	114	25	.....	.....
Caliente (g)	49.3	53.7	55.6	61.6	69.5	81.4	83.3	84.5	73.8	67.6	53.0	[d]46.1	65.0	110	27	.....	.....
Cedarville	29.4	35.0	38.2	47.5	53.8	61.2	67.2	68.2	56.8	53.9	36.2	28.6	48.0	100	— 4	.....	.....
Centerville (a)	51.2	56.2	56.1	59.9	63.3	67.9	68.0	68.0	66.5	62.6	56.6	50.2	60.5	105	37	.....	.....
Chicago Park	39.0	46.6	45.5	52.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chico (g)	48.8	55.6	57.0	62.2	68.4	80.4	81.4	82.8	68.8	65.6	52.2	45.3	64.0	110	28	.....	.....
Chino (f)	47.8	52.4	53.8	58.9	.....	.....	.....	71.4	69.5	64.8	57.5	52.9	.....	.....	.....	.....	.....
Cisco (g)	.....	.....	33.6	39.7	44.0	57.2	59.4	61.1	51.7	47.6	37.7	28.6	.....	85	.....	.....	.....
Claremont	47.0	52.0	52.8	56.0	62.5	.....	69.6	70.4	69.3	[c]63.3	59.0	.....	.....	.....	.....	.....	.....
Cloverdale (a)	48.8	56.2	54.8	60.2	65.6	75.4	74.5	74.4	69.5	66.6	57.4	48.2	62.6	106	30	.....	.....
Corning (g)	44.2	53.1	53.6	60.9	70.8	82.3	85.0	84.0	70.7	68.0	56.4	45.9	64.6	110	30	.....	.....
Coronado	.....	.....	.....	.....	.....	64.4	66.2	67.7	67.5	66.0	.....	61.9	.....	.....	.....	.....	.....
Crafton	.....	.....	.....	.....	.....	.....	.....	.....	.....	66.0	54.0	47.4	.....	.....	.....	.....	.....
Crescent City	46.3	48.8	47.2	50.5	52.8	55.6	58.4	55.9	55.9	54.3	50.3	46.3	51.8	86	26	.....	.....
Davisville	52.4	60.6	61.2	63.1	66.6	74.8	73.8	74.4	69.4	67.6	60.4	52.8	64.8	102	29	.....	.....
Delano (g)	47.8	52.5	55.0	63.2	72.6	81.5	84.2	84.6	74.2	69.5	54.9	45.8	65.5	109	27	.....	.....
Delta (g)	40.2	48.2	51.5	58.1	65.2	75.3	77.5	76.0	65.3	62.5	49.9	40.9	59.2	107	24	.....	.....
Dry Creek	.....	.....	.....	.....	.....	.....	.....	.....	63.1	60.8	.....	.....	.....	.....	.....	.....	.....
Drytown	44.6	51.8	51.4	56.3	60.7	72.2	73.6	75.0	67.2	63.0	51.6	43.2	59.2	107	24	.....	.....
Dunnigan (g)	47.2	54.2	56.0	64.0	74.3	84.0	78.2	77.6	74.8	67.3	54.8	45.0	64.8	106	28	.....	.....
Durham (a)	45.1	51.9	52.7	57.8	63.8	75.6	.....	.....	63.7	61.6	49.0	40.1	.....	.....	26	.....	.....
Edgewood (g)	33.1	37.8	40.9	48.5	57.5	68.8	72.4	70.3	58.0	56.1	41.1	32.7	51.4	103	7	.....	.....
Edmanton (a)	29.2	34.9	35.8	42.1	48.4	59.7	62.2	63.1	52.8	52.1	39.8	31.7	46.0	94	10	.....	.....
Escondido	50.1	54.6	55.6	58.3	68.2	70.8	72.1	73.4	71.0	64.2	57.0	50.6	62.1	108	22	.....	.....
*Eureka	46.4	49.4	47.9	49.8	53.0	52.8	56.0	54.0	53.7	52.0	48.8	46.8	50.9	76	30	Apr. 5	Nov. 23
Fallbrook (a)	48.4	52.2	52.8	56.5	63.0	64.8	67.6	68.1	67.3	62.5	55.2	52.4	59.2	103	32	.....	.....
Florin (e)	46.9	52.5	54.8	.....	64.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Folsom City (a)	47.1	52.7	53.8	59.2	66.7	77.4	76.7	77.0	67.7	64.0	51.4	44.4	61.5	107	30	.....	.....
Fort Bragg	.....	.....	.....	.....	.....	56.2	57.9	56.6	58.5	[k]55.1	54.0	49.8	.....	.....	.....	.....	.....
Fremontville (a)	49.8	54.4	53.5	57.8	62.5	64.6	66.8	66.1	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Fresno	45.3	52.6	53.7	60.0	67.4	77.2	79.4	80.6	70.4	66.6	52.8	43.6	62.5	110	26	Apr. 5	Dec. 18
Georgetown	39.8	49.3	47.4	53.8	58.1	69.6	72.0	73.5	62.6	63.0	50.6	42.8	56.9	98	23	.....	.....
Goshen (g)	46.0	52.8	53.9	61.3	71.7	80.8	82.2	80.1	67.8	63.4	49.7	41.9	62.6	108	22	.....	.....
Greenville	[b]25.5	29.4	33.9	47.0	53.3	60.0	63.8	64.9	55.2	52.6	39.8	31.2	46.4	105	— 2	.....	.....
Healdsburg (a)	43.2	48.8	50.1	55.0	59.0	61.4	62.8	62.4	.....	.....	56.0	48.5	.....	.....	27	.....	.....
Hollister	.....	52.0	53.2	55.8	59.3	63.5	64.7	64.1	63.5	61.8	51.5	46.0	.....	98	.....	.....	.....
Hydesville	44.0	48.5	48.0	50.8	54.6	56.2	59.2	58.6	56.8	56.6	48.7	44.8	52.2	85	24	.....	.....
*Independence	37.8	45.5	49.2	57.3	65.6	71.6	78.0	76.0	68.3	60.0	48.3	37.8	58.0	102	16	May 28	Sept. 21
Indio (g)	48.0	62.1	66.6	76.9	83.8	89.8	94.7	94.3	88.1	81.7	64.6	54.9	73.8	116	28	.....	.....
Iowa Hill (a)	41.1	50.2	48.4	54.9	60.8	72.3	74.8	75.1	64.5	63.4	52.4	44.4	58.4	101	28	.....	.....
Jackson	39.8	45.8	45.6	52.0	57.0	69.5	70.0	71.2	61.4	60.1	48.2	40.9	55.1	99	24	.....	.....
Julian	41.4	48.8	51.4	54.1	59.6	66.4	72.0	73.1	67.2	59.4	48.7	44.6	57.2	102	21	.....	.....
Keeler (g)	43.9	49.4	54.3	63.1	73.5	79.5	85.1	84.2	75.1	65.1	53.9	43.4	64.2	106	28	.....	.....
Keene (g)	43.9	48.1	48.6	54.7	62.1	72.8	76.5	75.9	65.6	60.6	48.8	40.7	58.2	102	25	.....	.....
Kennedy Gold Mine	42.8	50.2	50.2	55.2	60.2	72.3	72.8	74.9	65.5	64.1	51.2	41.6	58.4	104	24	.....	.....
King City (g)	52.9	50.4	59.1	61.8	58.7	66.1	66.0	63.6	64.0	58.1	48.6	45.8	57.9	105	20	.....	.....
Kingsburg (g)	46.4	53.8	56.1	63.0	72.1	84.7	85.0	82.3	71.5	66.6	49.2	43.1	64.4	110	23	.....	.....
Kono Tayee	42.7	49.2	50.2	56.0	60.6	71.4	74.2	75.8	65.5	63.5	52.0	44.0	58.8	98	29	.....	.....
Lagrange (e)	46.8	55.2	56.0	60.2	65.7	78.2	80.4	.....	72.7	67.6	54.0	45.2	.....	113	27	.....	.....
Laporte (a)	29.8	37.0	34.5	41.4	46.6	59.1	61.6	61.1	49.8	49.8	39.8	31.5	45.2	88	12	.....	.....
Lemoore (g)	46.4	52.6	54.3	61.8	69.8	80.3	81.1	80.7	69.3	65.4	49.8	41.8	62.8	108	22	.....	.....
Lick Observatory	36.4	45.6	42.8	47.2	52.2	65.2	67.2	70.4	59.0	59.9	47.9	41.4	52.9	91	23	.....	.....
Lime Kiln	50.0	53.8	55.4	61.4	69.2	78.8	80.8	81.4	72.8	70.0	54.8	44.3	64.4	112	25	.....	.....
Lodi	46.4	52.2	53.8	57.6	63.1	71.6	71.4	71.8	66.1	63.7	51.6	44.8	59.5	102	26	.....	.....
*Los Angeles	52.2	56.8	55.5	58.8	63.6	65.9	68.4	68.8	68.8	65.6	60.1	56.4	61.7	100	34	.....	Nov. 24
Los Gatos	44.9	51.2	51.3	54.6	58.8	65.9	65.0	65.7	62.4	59.6	51.7	46.2	56.4	94	30	.....	.....
McMullin (a)	.....	.....	.....	63.2	70.0	77.8	80.6	82.9	70.8	68.2	52.6	42.8	.....	.....	.....	.....	.....
Malakoff Mine (a)	.....	[f]45.4	45.4	52.8	59.2	68.4	71.0	71.5	60.4	58.7	48.0	40.1	.....	94	.....	.....	.....
Mammoth Tank (g)	50.9	58.6	64.4	76.3	81.6	88.2	93.7	92.3	86.5	77.6	58.4	51.2	73.3	117	22	.....	.....
Manzana	39.4	46.4	48.0	54.7	63.5	72.8	76.8	77.8	67.2	59.4	45.8	38.9	57.6	106	16	.....	.....
Mariposa (a)	42.2	48.5	48.2	56.9	63.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Merced (g)	45.8	53.2	53.2	58.5	67.2	79.6	76.2	78.5	77.6	66.5	53.0	45.2	62.9	109	27	.....	.....
Middletown (a)	43.6	48.4	48.8	55.0	62.1	71.8	71.6	72.5	64.0	62.7	50.7	42.3	57.8	105	22	.....	.....
Milton (near) (a)	49.0	55.9	56.8	61.5	66.4	76.5	78.5	79.1	72.2	69.7	56.8	47.8	64.0	109	31	.....	.....
Modesto (g)	45.8	49.1	49.9	59.2	70.2	79.1	78.1	75.7	68.0	62.8	51.2	44.0	61.1	105	26	.....	.....
Mohave (g)	42.9	50.2	51.0	59.9	68.7	80.3	84.3	85.5	73.9	66.1	50.3	42.8	63.0	111	18	.....	.....
Mokelumne Hill (a)	41.4	48.2	47.4	53.3	60.4	73.5	75.6	76.0	63.4	62.8	49.7	41.2	57.7	.....	28	.....	.....
Monterey (g)	50.8	52.4	53.8	55.9	58.7	58.6	58.8	60.1	62.4	58.3	53.7	53.2	56.4	88	28	.....	.....
Mount Glenwood (a)	45.9	54.1	54.4	60.7	67.7	76.4	78.7	80.4	70.9	69.4	57.6	45.4	63.5	105	28	.....	.....
Napa	48.2	53.4	54.0	58.4	62.2	67.6	67.4	67.2	65.4	63.1	55.3	47.6	59.1	94	23	.....	.....
Needles	50.8	59.0	62.5	71.9	81.9	86.9	93.0	93.2	84.2	73.4	57.7	47.6	71.8	116	20	.....	.....
Nevada City	38.2	46.0	45.2	51.1	56.8	65.8	67.0	67.1	58.2	56.8	46.4	39.7	53.2	92	19	.....	.....
Newcastle	41.9	49.9	50.2	55.6	61.2	73.5	72.8	76.2	65.2	64.9	51.7	41.3	58.8	103	26	.....	.....
Newhall (g)	46.9	53.0	53.0	59.1	66.5	70.9	73.7	75.0	69.6	63.5	53.8	48.1	61.1	104	19	.....	.....
Nordhoff	51.6	51.6	52.8	57.4	64.1	67.0	[b]64.6	65.4	68.3	62.6	57.4	50.6	59.4	104	24	.....	.....

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.																	
Oakland	47.2	52.1	50.6	56.4	59.0	60.0	63.1	58.7	61.6	56.0	53.9	46.9	55.5	92	32	.....	.....
Ogilby (*g*)	56.8	62.0	70.4	75.6	84.4	93.0	96.6	103.5	90.5	76.5	59.2	52.0	76.7	122	39	.....	.....
Oleta (*a*)	39.8	46.0	47.3	50.5	58.0	72.8	69.6	70.7	61.2	58.2	47.0	40.5	55.1	99	22	.....	.....
Ontario	49.0	55.0	56.6	63.2	69.0	74.0	75.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Orange	.....	.....	.....	.....	.....	.....	.....	.....	.....	64.3	58.6	53.4	.....	.....	.....	.....	.....
Orangevale	44.8	51.0	52.6	60.2	67.0	77.3	75.7	75.4	65.6	64.0	51.8	44.1	60.8	112	27	.....	.....
Orland (*g*)	43.7	51.2	52.8	60.8	69.0	80.8	84.6	84.1	71.0	68.2	52.9	43.2	63.5	113	28	.....	.....
Oroville	46.8	52.6	49.0	55.8	65.4	80.4	78.6	80.1	72.0	70.3	61.2	46.1	63.2	107	28	.....	.....
Palermo	46.2	50.8	53.2	59.3	67.6	80.2	74.3	79.7	67.2	63.8	51.2	43.4	61.4	111	26	.....	.....
Pasadena	49.9	.....	54.5	58.5	63.8	.....	69.1	69.8	69.2	.....	54.8	.....	.....	.....	.....	.....	.....
Paso Robles	45.9	49.8	51.8	55.4	61.2	66.2	70.6	68.7	63.7	62.8	47.4	41.8	57.1	102	18	.....	.....
Petaluma	47.3	52.2	52.4	56.7	60.8	66.8	66.6	65.3	62.7	61.1	.....	.....	.....	.....	.....	.....	.....
Picacho	.....	.....	.....	.....	.....	.....	.....	.....	89.2	79.3	.....	54.0	.....	.....	.....	.....	.....
Placerville	40.2	45.6	45.4	51.8	58.0	70.2	70.6	69.4	59.8	58.6	46.0	39.0	54.5	100	17	.....	.....
Point Lobos	47.8	51.9	49.3	52.8	54.8	55.2	57.5	56.9	57.5	55.9	54.2	47.7	53.5	81	38	.....	.....
*Point Reyes	47.7	50.4	49.0	51.2	52.4	53.4	54.6	[c]54.9	55.6	54.4	53.1	48.0	52.1	82	34	.....	.....
Pomona (near)	51.7	56.6	57.6	61.6	68.2	71.3	75.0	74.0	71.4	66.6	58.2	52.6	63.7	102	28	.....	.....
Portersville (*g*)	48.8	54.8	56.4	64.6	73.4	83.9	84.9	84.0	78.9	67.8	53.4	45.5	66.4	110	30	.....	.....
Poway (*c*)	45.8	48.8	49.2	54.0	61.3	66.5	65.2	65.9	63.0	59.4	52.6	.....	.....	93	.....	.....	.....
Quincy	.....	.....	.....	48.2	54.4	61.6	65.2	64.7	54.9	50.8	39.0	32.0	.....	97	.....	.....	.....
Ravenna (*g*)	46.0	52.2	51.3	57.1	67.0	76.8	76.4	76.2	67.7	63.8	53.8	47.9	61.4	105	27	.....	.....
*Redbluff	43.8	52.8	52.8	59.1	66.2	78.2	80.0	81.2	68.5	67.0	53.6	43.4	62.2	108	28	Mar. 14	Nov. 25
Redding	43.4	52.6	52.8	58.2	65.8	76.4	79.2	81.2	67.8	66.2	53.8	42.4	61.6	106	28	.....	.....
Reedley (near) (*a*)	47.8	53.6	54.5	62.3	69.6	81.4	82.2	82.4	73.4	68.6	53.2	44.4	64.4	108	27	.....	.....
Represa	45.3	46.0	49.5	56.1	63.7	73.1	72.9	74.2	65.8	63.7	52.9	46.6	59.2	100	27	.....	.....
Rio Vista	45.0	51.1	60.2	57.7	63.3	71.4	70.4	71.7	64.9	63.0	52.2	43.0	59.5	105	24	.....	.....
Riverside	49.8	50.8	56.7	60.6	67.7	71.4	74.8	75.2	71.6	66.0	56.6	51.4	62.7	104	22	.....	.....
Rosewood	40.7	47.5	52.2	57.2	65.6	77.2	78.2	78.6	64.9	62.0	48.8	40.2	59.4	111	16	.....	.....
*Sacramento	46.4	53.4	53.5	58.4	63.6	72.9	71.4	72.6	67.0	64.7	53.1	44.8	60.2	102	28	Jan. 31	Dec. 22
Sacramento[1]	47.2	52.9	55.0	59.4	65.2	74.4	72.6	71.4	64.7	62.8	51.6	45.2	60.2	103	26	.....	.....
Salton (*g*)	50.9	60.2	67.8	80.1	90.1	96.4	[a]96.5	97.9	91.4	82.7	69.9	60.2	78.7	121	18	.....	.....
San Bernardino	47.7	54.2	55.4	.....	66.3	70.4	76.0	74.0	69.8	64.6	56.3	51.0	.....	100	24	.....	.....
*San Diego	53.2	55.8	55.4	57.8	61.9	63.0	65.6	67.1	67.4	64.4	59.4	55.0	60.5	90	34	.....	.....
*San Francisco	48.6	53.8	52.2	54.8	57.6	58.7	58.4	58.4	60.7	58.8	56.2	48.6	55.6	89	38	Mar. 14	Dec. 26
San Jacinto	48.0	53.5	54.6	58.4	65.8	69.0	71.8	73.7	69.0	.....	54.4	48.6	.....	103	19	.....	.....
San Jose	45.0	51.0	53.0	54.8	58.0	63.8	65.8	64.5	61.3	58.4	50.5	44.8	55.9	96	20	.....	.....
San Leandro (*a*)	51.5	51.3	55.0	58.4	61.7	64.7	64.2	64.4	64.2	62.5	57.4	51.3	58.9	94	36	.....	.....
*San Luis Obispo	49.7	54.5	52.4	55.6	58.8	63.6	65.6	65.6	64.6	62.7	56.6	52.7	58.5	99	28	Mar. 17	Nov. 26
San Mateo (*g*)	49.6	52.9	54.5	58.4	62.3	64.6	65.0	63.5	65.3	61.7	56.5	50.2	58.7	94	34	.....	.....
San Miguel (*g*)	47.8	48.5	54.2	59.5	66.2	75.9	75.9	72.8	67.5	62.6	51.0	44.3	60.5	106	20	.....	.....
San Miguel Island	54.9	59.2	53.4	55.6	56.6	60.6	61.8	61.6	61.3	60.3	59.2	54.6	58.3	90	37	.....	.....
San Rafael	45.5	50.0	49.6	54.6	59.4	65.4	.....	.....	61.8	59.8	51.2	43.8	.....	.....	26	.....	.....
Santa Ana (*e*)	48.7	57.3	56.7	63.5	69.1	76.0	77.3	77.3	78.9	72.8	65.8	64.2	67.3	102	30	.....	.....
Santa Barbara	51.7	55.8	53.6	57.5	60.5	62.5	65.0	65.0	65.6	63.4	59.9	55.1	59.6	91	38	.....	.....
Santa Clara (*f*)[2]	47.5	53.1	53.1	55.8	57.8	63.9	63.0	65.4	63.2	61.3	55.2	47.9	57.3	90	28	.....	.....
Santa Clara[3]	43.1	52.0	52.0	57.5	61.0	64.5	64.8	68.0	64.5	62.5	.....	.....	.....	102	.....	.....	.....
Santa Cruz	50.8	54.8	54.9	57.2	61.0	62.5	64.1	62.8	64.2	61.2	55.3	50.7	58.3	96	29	.....	.....
Santa Maria	[c]52.7	50.3	55.4	56.8	59.2	[c]62.2	[d]65.0	[d]66.0	65.0	61.8	57.8	52.4	58.7	94	31	.....	.....
Santa Monica (*g*)	51.7	54.5	52.7	56.3	61.0	65.0	66.2	66.4	64.7	63.5	62.6	59.2	60.3	85	31	.....	.....
Santa Paula	46.0	51.4	49.4	52.8	58.5	59.9	61.4	61.3	.....	61.2	58.9	54.2	.....	95	29	.....	.....
Santa Rosa (*g*)	48.4	53.5	53.7	59.4	65.6	71.6	66.6	66.9	65.3	59.6	52.8	46.4	59.2	98	25	.....	.....
Shasta Springs	33.9	40.3	40.6	50.4	52.0	60.7	67.1	66.0	58.2	56.4	42.7	34.8	50.3	94	12	.....	.....
Stanford University	46.6	51.4	51.4	54.8	57.6	59.2	65.3	65.7	62.9	59.6	52.6	45.2	56.0	96	28	.....	.....
Stockton	45.6	52.2	53.2	57.8	62.6	71.4	71.3	71.7	65.2	63.0	50.8	43.9	58.2	102	25	.....	.....
Susanville	29.9	35.2	36.3	50.7	58.0	68.0	74.6	73.8	59.1	55.4	39.5	32.9	51.1	100	— 3	.....	.....
Suttercreek (*e*)	38.2	45.0	45.2	50.5	57.6	67.0	68.6	69.7	60.6	59.4	45.4	37.2	53.7	98	22	.....	.....
Tecarte Dam (*d*)	40.2	44.8	47.2	47.3	55.9	64.2	67.9	67.6	68.2	55.0	46.0	39.4	53.6	106	18	.....	.....
Tehama (*g*)	46.1	53.1	54.0	58.0	70.7	80.2	83.9	82.7	68.8	63.7	52.9	45.3	63.3	106	30	.....	.....
Templeton (*g*)	46.2	51.7	51.8	59.9	63.9	68.2	68.3	68.1	64.4	60.7	49.0	43.4	58.0	108	20	.....	.....
Truckee (*g*)	22.7	26.3	30.5	38.4	46.3	55.7	61.8	62.9	51.6	47.6	36.2	26.6	42.2	95	—11	.....	.....
Tulare	48.7	56.5	56.5	61.2	68.2	80.4	80.3	80.2	70.0	66.1	53.0	44.6	63.8	118	22	.....	.....
Turlock	44.8	50.7	51.8	57.2	59.4	73.7	75.6	76.2	68.0	64.0	50.2	43.3	59.6	112	21	.....	.....
Ukiah	44.3	49.4	49.6	53.2	58.2	67.4	68.0	70.6	61.3	59.9	48.2	42.9	56.1	104	20	.....	.....
Upperlake	43.1	51.6	50.8	55.2	59.6	70.2	72.5	73.8	.....	63.0	50.7	43.2	.....	104	.....	.....	.....
Upper Mattole (*a*)	48.4	51.5	51.3	52.0	56.2	60.8	64.0	63.8	62.6	57.2	48.4	46.8	55.2	98	29	.....	.....
Vacaville (*a*)	46.6	52.6	53.4	59.2	65.3	75.4	74.8	75.5	68.2	66.4	55.2	45.3	61.6	106	29	.....	.....
Ventura	51.8	55.7	53.8	57.2	59.4	62.7	64.6	64.0	63.2	63.2	59.8	55.2	59.2	94	36	.....	.....
Volcano Springs (*g*)	58.4	66.7	71.0	83.9	93.4	99.7	103.2	103.4	91.6	79.7	65.2	55.2	81.0	124	18	.....	.....
Walnutcreek	45.0	50.4	50.8	57.3	61.4	69.0	69.2	69.1	63.1	.....	.....	44.5	.....	106	.....	.....	.....
Wheatland	45.2	52.0	53.0	58.5	64.8	75.8	75.5	75.0	65.4	63.4	50.0	42.5	60.1	107	25	.....	.....
Williams (*g*)	46.1	52.0	53.7	60.9	69.2	87.9	80.6	80.0	69.5	65.0	54.8	44.7	63.7	106	27	.....	.....
Willows (*g*)	43.7	51.3	53.1	61.8	68.8	82.2	76.5	81.3	71.5	67.8	55.0	44.1	63.1	108	28	.....	.....
Wilmington (*e*)	55.0	59.8	60.0	62.6	67.8	69.8	73.6	72.7	72.0	69.6	62.4	59.5	65.4	88	38	.....	.....
Winchester	48.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wire Bridge (*e*)	45.0	50.2	52.0	58.8	64.7	75.0	77.0	75.3	66.4	63.3	50.2	43.6	60.1	104	22	.....	.....
Yreka	32.2	40.0	43.4	50.4	56.2	65.0	68.2	68.8	58.3	55.8	39.3	31.0	50.7	106	9	.....	.....
Yuba City (*e*)	47.8	55.4	57.2	61.7	69.8	81.4	79.7	78.5	71.4	66.8	56.6	48.2	64.5	102	34	.....	.....
Colorado.																	
Alma	14.0	[e]17.0	[f]19.6	30.8	38.0	44.3	48.4	50.6	46.8	33.6	23.8	14.8	31.8	76	—17	July 13	Aug. 25
Antlers	21.7	18.8	34.2	49.0	56.5	62.3	68.9	71.2	60.9	48.2	31.4	16.0	44.9	100	—25	June 19	Sept. 22
Boulder	27.8	25.0	35.6	52.4	56.8	60.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 23	.....
Breckenridge	12.0	12.2	14.6	23.7	29.9	45.0	52.6	58.2	52.7	41.2	24.4	13.2	31.6	86	—35	July 24	Sept. 4
Brush	.....	.....	.....	.....	.....	.....	.....	.....	[f]63.4	50.2	.....	29.2	.....	.....	.....	.....	Sept. 28
Byers (*a*)	21.1	18.0	37.3	42.0	48.4	51.2	58.8	64.0	57.2	48.8	31.1	26.0	42.0	99	—18	June 13	Sept. 22
Canyon	31.6	27.6	39.8	51.6	57.0	64.0	68.3	72.8	65.8	52.2	38.8	33.0	50.2	96	—18	May 11	Sept. 22
Castlerock	.....	.....	.....	.....	54.2	62.2	63.8	64.3	62.9	46.8	30.7	27.6	.....	94	.....	May 31	Sept. 21

[1] S. H. Gerrish. [2] A. Block. [3] R. L. Higgins.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.
Colorado—Continued.																	
Climax (a)	9.2	8.0	14.6	25.1	32.6	41.2	46.0	49.0	45.6	32.6	.....	7.4	.....	68	.....	July 23	Sept. 19
Colorado Springs	27.8	24.6	34.4	46.4	52.1	59.3	63.4	65.4	62.2	47.0	35.1	28.5	45.5	89	—10	May 17	Sept. 21
Cope	24.0	20.3	37.8	50.4	58.7	65.5	69.0	[b]74.6	68.6	.....	36.2	30.9	.....	103	—20	May 12	Sept. 29
Crook	15.8	18.2	37.6	53.1	60.0	68.2	72.6	79.5	70.2	49.6	36.4	[c]29.1	49.2	106	—31	May 26	Sept. 22
Deertrail (e)	26.2	21.6	36.8	46.8	59.2	61.0	69.8	74.9	66.0	49.2	37.2	34.0	48.6	96	—20	Apr. 17	Sept. 22
Delta	28.4	27.9	41.6	52.2	57.4	67.2	73.2	73.6	66.2	54.4	34.7	19.3	49.7	101	—14	June 19	Sept. 22
*Denver	28.4	26.6	37.2	49.8	55.6	61.8	67.4	70.2	65.6	50.7	37.8	34.0	48.8	96	—15	Apr. 5	Sept. 22
Divide Exp. Station	23.6	20.2	30.2	41.4	47.8	54.4	59.5	62.2	59.4	43.8	31.4	23.2	41.4	88	—17	June 19	Sept. 22
Downing	30.2	28.7	40.3	52.2	56.4	65.0	67.7	69.2	63.4	55.0	.....	.....	.....	98	.....	May 23	Sept. 19
Dumont	25.5	23.0	31.8	47.0	49.9	55.0	60.9	63.5	.....	.....	34.0	30.2	.....	.....	—22	June 19	Sept. 22
Durango	26.3	27.9	38.8	47.4	54.5	60.1	65.9	66.9	61.0	49.4	34.5	24.8	46.5	86	—12	June 19	Sept. 4
First View (f)	23.9	24.4	40.3	51.3	61.1	64.9	68.9	72.8	68.0	52.1	41.8	33.5	50.2	100	—18	Apr. 16	.....
Fort Collins	23.9	21.1	34.2	49.2	53.6	59.2	65.3	67.6	61.0	46.8	33.7	28.6	45.4	95	—28	May 26	Sept. 22
Gleneyrie	27.2	24.4	35.2	48.3	53.1	59.8	62.0	63.4	60.8	47.4	35.6	29.0	45.5	88	—12	May 17	Sept. 22
Golden (a)	.....	.....	40.2	54.1	57.6	63.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Goldhill (a)	28.2	25.3	34.0	47.8	47.8	53.0	59.2	62.9	59.7	47.1	34.2	27.6	43.9	92	—14	May 31	Sept. 22
Grand Junction	30.6	29.5	43.0	53.6	61.4	69.0	75.4	76.1	68.0	53.9	38.5	25.0	52.0	97	— 4	Apr. 7	Sept. 21
Greeley	.....	.....	.....	.....	55.8	[c]63.0	67.9	68.8	.....	.....	31.9	24.5	.....	.....	.....	May 11	.....
Gulch	.....	.....	.....	.....	.....	.....	.....	63.0	50.7	42.0	28.6	18.4	.....	.....	.....	.....	Sept. 7
Gunnison	5.8	5.7	19.8	38.6	47.1	52.8	58.5	60.6	53.0	41.9	24.2	4.6	34.4	86	—44	June 28	Aug. 21
Hugo (e)	25.3	24.8	39.8	52.1	59.2	66.1	72.4	75.8	67.0	49.2	41.3	34.0	50.6	97	—22	.....	.....
Hugo (near)	24.8	22.7	34.8	[c]49.0	54.7	60.3	63.6	64.8	59.0	45.6	32.8	26.2	44.9	90	—16	May 18	Sept. 21
Husted	28.2	25.3	36.9	46.8	53.1	58.6	63.2	66.2	63.3	47.2	36.0	28.3	46.1	97	—25	May 18	Sept. 22
Jamestown	.....	.....	.....	.....	.....	.....	.....	.....	[d]58.0	42.1	29.8	24.0	.....	.....	.....	.....	Sept. 28
Julesburg	20.1	17.0	36.8	53.5	58.2	65.4	69.6	73.4	66.4	47.0	34.6	28.8	47.6	105	—29	May 17	Sept. 29
Kit Carson (a)	28.4	25.4	37.9	47.0	61.0	69.8	74.0	75.5	71.0	49.2	37.8	28.8	50.6	100	—12	Apr. 15	Sept. 29
Lajara	25.8	26.7	36.4	46.4	52.2	59.4	62.7	64.0	60.9	47.6	31.0	18.8	44.3	87	—15	May 11	Sept. 21
Lake Moraine	18.0	18.6	24.2	33.9	39.4	47.0	50.8	52.9	50.6	36.3	27.8	18.1	34.8	73	—24	July 24	Sept. 28
Lamar	.....	.....	41.2	.....	63.2	70.6	71.8	73.4	69.8	52.9	.....	.....	.....	104	.....	.....	Sept. 22
Las Animas	24.4	22.4	36.4	51.5	58.6	69.0	70.7	71.2	68.6	53.4	33.0	30.7	49.2	99	—23	May 19	Sept. 22
Lay (a)	17.6	15.8	26.8	45.0	50.5	57.4	64.8	67.5	57.4	42.2	27.8	12.8	40.4	94	—34	.....	Sept. 22
Leadville (near)	.....	.....	.....	.....	.....	.....	.....	.....	.....	44.8	.....	18.4	.....	.....	.....	.....	Sept. 21
Leroy	21.6	18.6	35.9	.....	57.3	63.1	68.8	72.4	66.0	48.8	34.7	28.9	.....	100	—24	May 11	Sept. 29
Longmont	[c]27.0	23.6	35.2	50.2	56.6	62.0	67.1	70.0	62.8	46.6	33.8	27.7	46.9	100	—29	May 21	Sept. 23
Longs Peak	.....	.....	.....	.....	.....	.....	54.0	55.4	.....	.....	.....	.....	.....	.....	.....	July 13	.....
Meeker	22.0	20.4	.....	[c]48.6	51.6	58.8	63.3	65.6	55.5	44.6	27.6	13.4	.....	93	—34	June 3	Sept. 23
Millbrook	.....	.....	.....	.....	.....	.....	58.2	60.3	56.2	42.5	28.7	18.3	.....	.....	.....	.....	Sept. 7
Minneapolis	28.5	.....	42.8	56.5	62.1	69.0	72.4	73.6	70.6	52.7	40.7	31.4	.....	102	.....	May 10	Sept. 28
Montevista	19.4	22.5	31.8	43.4	49.6	56.0	59.1	61.6	56.8	44.0	26.6	14.9	40.5	85	—20	June 19	Sept. 22
Montrose	.....	.....	.....	.....	.....	.....	.....	.....	.....	54.2	36.6	23.4	.....	.....	.....	.....	.....
Moraine	23.0	19.2	28.4	39.3	45.0	51.4	56.5	58.2	54.4	41.4	30.5	24.0	39.3	82	—24	June 25	Sept. 22
Ouray	23.4	23.6	31.8	44.2	51.2	58.0	62.6	63.0	59.9	50.0	31.4	22.6	43.5	82	—10	May 29	Sept. 21
Pagoda (near)	16.8	15.0	25.7	41.8	47.6	53.2	60.2	64.5	56.5	44.1	26.0	14.5	38.8	94	—34	June 19	Sept. 3
Parachute	[d]22.0	20.6	36.6	50.2	57.7	63.2	71.0	70.8	62.8	50.7	31.4	14.4	46.0	94	—23	June 4	Sept. 29
*Pueblo	29.0	25.2	39.3	51.5	58.4	66.2	69.7	71.9	67.2	50.8	38.0	30.9	49.8	96	—24	Apr. 17†	Sept. 23
Rangely	11.3	13.2	29.9	48.2	54.9	62.2	68.6	69.2	60.2	45.8	27.9	4.4	41.3	100	—37	May 19	Sept. 22
Riverbend (e)	.....	.....	.....	50.5	.....	.....	.....	74.8	68.1	52.6	36.7	31.3	.....	.....	.....	.....	Sept. 23
Rockyford	26.9	24.4	40.1	53.4	60.5	68.0	70.4	71.8	68.0	51.4	36.7	30.0	50.1	100	—23	May 11	Sept. 22
Saguache	18.6	22.9	31.6	43.4	51.1	57.0	[c]62.8	62.5	56.6	46.0	32.4	16.6	41.8	85	—14	June 19	Sept. 19
San Juan	10.2	15.0	22.8	[c]38.8	.....	46.6	52.2	53.6	47.7	36.4	.....	.....	.....	82	.....	Every	month.
San Luis	21.6	22.1	32.8	42.8	52.4	58.8	63.0	65.1	60.2	45.8	30.5	15.9	42.6	97	—34	May 5	Sept. 22
Santa Clara (a)	24.5	21.1	32.5	44.8	49.0	56.7	60.1	60.6	55.8	[f]40.9	30.2	23.7	41.6	90	—31	May 17	Sept. 21
Smoky Hill Mine	27.8	24.8	33.2	44.8	47.8	53.2	59.2	61.6	58.4	45.4	34.0	29.0	43.2	90	—17	June 19	Sept. 21
Stamford (a)	20.8	19.8	27.8	36.0	40.2	47.4	51.7	53.2	53.3	36.8	27.6	19.6	36.2	86	—16	June 20	Sept. 22
Steamboat Springs	.....	.....	.....	36.6	47.0	53.3	56.7	.....	.....	.....	.....	.....	.....	.....	.....	June 19	.....
Sulphur Springs	.....	.....	24.5	39.5	47.5	53.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Surface Creek	26.5	26.4	37.5	47.8	55.5	59.0	66.1	66.3	59.9	48.0	33.0	22.1	45.7	87	—10	June 18	Sept. 21
Thon	27.4	26.2	35.6	48.7	54.5	61.6	65.7	67.4	64.8	49.8	36.4	29.4	47.3	90	— 5	May 17	Sept. 21
T. S. Ranch	26.6	27.1	39.8	51.6	59.0	63.0	68.4	[e]69.6	60.2	51.2	34.2	22.4	47.8	90	— 5	Apr. 30	Sept. 21
Vernon	26.8	22.0	38.2	54.4	57.2	64.2	[e]67.5	71.2	.....	.....	.....	.....	.....	.....	.....	May 11	.....
Watkins (a)	25.2	21.2	34.0	41.5	.....	55.8	69.1	54.8	64.8	56.3	31.4	27.8	.....	.....	.....	Apr. 16	Sept. 22
Wray	.....	.....	.....	.....	.....	.....	.....	.....	.....	49.6	[g]33.6	29.8	.....	.....	.....	.....	.....
Connecticut.																	
Bridgeport	26.7	22.6	34.0	46.0	58.4	68.5	69.2	[h]72.4	67.4	48.6	44.4	35.2	49.4	98	— 3	.....	Oct. 29
Canton	23.0	19.8	31.4	45.2	60.4	70.6	67.6	68.6	63.1	45.1	41.2	32.4	47.4	95	—12	May 17	Sept. 15
Colchester	25.2	21.3	33.9	46.1	58.8	68.3	66.9	69.7	64.6	46.3	43.5	35.2	48.3	94	— 6	May 14	Oct. 9
Hartford	25.3	21.4	33.0	47.1	[c]60.3	70.2	[f]69.8	71.0	[e]64.4	47.5	43.8	34.0	49.0	94	— 8	.....	Sept. 15
Middletown	25.5	20.9	34.6	47.8	61.4	69.8	69.3	71.8	66.1	47.9	44.7	33.6	49.4	96	—14	May 17	Sept. 15
*New Haven	26.7	22.4	34.4	46.2	58.6	68.4	69.0	71.4	66.4	48.6	43.6	35.4	49.3	96	— 7	May 17	Sept. 15
*New London	28.6	22.8	34.8	44.6	56.3	65.3	68.1	70.4	65.4	49.5	44.6	35.4	48.8	93	— 5	Apr. 11†	.....
North Groevenor Dale	21.4	17.1	31.1	44.0	58.1	67.4	67.0	69.0	61.8	43.2	40.0	30.4	45.9	95	—12	Apr. 22	Oct. 9
Norwalk	25.1	20.5	33.5	44.8	58.5	68.6	67.6	69.8	64.4	45.8	42.2	33.7	47.9	96	— 5	May 17	Oct. 9
Southington (a)	23.8	20.6	32.4	46.7	59.6	69.2	68.3	70.2	64.0	45.6	41.2	32.6	47.8	92	— 6	May 17	Sept. 15
Storrs	24.1	19.4	30.9	44.4	57.7	67.5	66.0	68.2	63.2	44.8	41.7	32.9	46.6	93	—12	May 17	Oct. 2
Thompson (a)	23.1	19.1	30.3	43.7	56.5	65.8	65.5	67.8	61.9	45.3	41.0	31.5	46.0	90	—11	May 19	Oct. 10
Voluntown	27.4	21.4	34.6	45.6	[f]57.8	[c]67.4	67.0	67.4	62.8	47.2	44.4	34.2	48.1	93	— 7	May 17	Sept. 16
Waterbury	26.0	21.1	33.6	47.1	59.6	69.6	67.8	69.8	65.3	47.6	44.8	35.2	49.0	94	—10	May 17	Oct. 9
Windsor	22.3	19.5	32.2	46.0	59.5	69.6	68.2	69.0	63.9	45.5	42.0	31.7	47.6	92	— 8	May 17	Sept. 15
Delaware.																	
Dover	32.4	24.9	40.6	52.7	62.1	73.5	72.3	76.0	70.4	51.0	47.2	39.2	53.5	97	— 1	.....	.....
Kirkwood (b)	28.0	20.6	[c]36.4	48.3	57.2	[c]70.1	67.6	75.3	68.8	47.4	.....	.....	.....	.....	.....	.....	.....
Milford	34.0	27.6	42.4	53.8	62.5	75.1	74.7	80.7	73.7	54.1	50.2	41.8	55.9	99	1	.....	.....
Millsboro	33.7	25.4	42.0	52.9	61.4	73.2	72.9	76.9	71.2	51.4	48.8	41.8	54.3	93	— 1	Apr. 12	.....
Newark	28.6	22.5	37.9	49.7	61.0	72.4	71.4	75.2	70.4	49.8	45.1	36.0	51.7	97	— 4	Apr. 12	.....
Seaford	33.0	25.3	41.8	53.5	61.2	72.8	72.0	76.7	71.3	52.1	48.4	40.6	54.1	97	— 2	.....	.....
Wilmington	31.2	26.5	40.7	54.0	65.4	77.2	75.0	78.8	72.8	53.1	47.8	39.7	55.2	101	— 2	.....	Sept. 30

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.
District of Columbia.																	
Distributing reservoir (e)	30.7	25.6	41.8	54.6	63.3	75.8	73.0	77.3	71.8	51.4	46.3	37.5	.....	.....	.....	.....	.....
Receiving reservoir (e)	31.1	25.5	40.8	53.8	63.1	75.4	73.2	77.3	72.4	51.3	45.9	37.8	.....	.....	.....	.....	.....
*Washington	31.6	26.2	41.8	53.8	62.6	74.6	72.8	77.2	72.4	52.1	46.4	38.8	54.2	98	0	Mar. 29†	Oct. 9
West Washington	33.4	27.2	44.4	55.8	64.2	75.6	73.4	77.6	72.4	52.6	48.0	39.0	.....	.....	.....	.....	.....
Florida.																	
Amelia	52.1	44.2	62.1	64.9	72.4	78.4	80.5	80.6	79.0	68.6	60.0	51.2	65.3	94	17	Feb. 18	Dec. 4
Archer	58.4	50.8	65.0	68.0	75.8	80.6	81.4	82.0	80.2	70.9	62.6	54.8	69.2	98	15	Feb. 18	Dec. 4
Avonpark	63.8	56.2	68.4	70.4	78.0	81.7	83.0	83.2	81.3	75.2	70.0	61.7	72.6	97	23	Feb. 10	None.
Bartow	.....	.....	.....	.....	.....	.....	.....	[c]80.4	78.6	72.0	65.4	57.3	.....	.....	.....	.....	Dec. 6
Brooksville	59.0	51.9	65.5	68.9	77.8	80.5	80.0	80.6	79.4	71.6	64.8	56.2	69.7	93	16	Feb. 16	Dec. 6
Clermont	61.0	53.4	66.8	70.4	74.4	81.6	82.6	83.6	80.1	72.0	66.9	57.8	70.8	99	18	Feb. 14	Dec. 6
Deland	60.2	52.0	64.4	67.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Feb. 21	.....
Earnestville	.....	.....	.....	69.9	77.6	81.2	82.0	82.6	80.4	72.2	65.0	57.2	.....	100	.....	.....	Dec. 6
Eustis	60.6	53.5	65.4	68.4	[b]78.8	81.4	81.9	82.6	79.6	72.3	65.0	57.4	70.6	98	16	Feb. 14	Dec. 6
Federal Point	57.7	49.6	63.3	66.8	73.3	78.1	80.6	81.2	77.7	70.0	62.6	54.2	67.9	94	16	Feb. 14	Dec. 6
Fort Meade	62.0	54.8	65.4	67.6	75.6	78.6	80.0	80.4	78.3	70.3	65.0	56.0	69.5	96	24	Feb. 10	Dec. 3
Frostproof (a)	.....	.....	.....	.....	.....	.....	[c]82.2	79.9	78.1	72.6	67.9	58.8	.....	.....	.....	.....	.....
*Gainesville	.....	.....	.....	.....	76.2	82.0	82.8	82.8	79.6	69.6	.....	.....	.....	.....	.....	.....	.....
Grasmere	61.0	53.3	67.1	68.4	75.4	79.2	80.2	80.9	78.8	72.4	65.6	56.7	69.9	93	17	Feb. 14	Dec. 4
Greencove Springs	55.0	46.8	60.5	64.2	71.6	76.4	76.7	76.4	75.3	67.3	59.3	50.6	65.0	93	13	Feb. 17	Dec. 3
Homeland	60.6	53.6	67.3	69.0	78.0	80.3	82.2	.....	.....	.....	.....	.....	.....	.....	.....	Feb. 18	.....
Hypoluxo (a)	66.8	57.6	68.5	69.6	78.2	78.4	80.6	80.4	80.0	.....	74.4	67.1	.....	95	32	Feb. 8	.....
*Jacksonville	56.1	47.6	63.0	67.2	73.8	80.2	81.8	82.9	79.1	69.7	61.0	53.5	68.0	97	14	Feb. 18	Dec. 4
*Jupiter	65.4	58.4	68.7	70.3	76.5	79.4	81.1	81.4	79.6	75.8	72.0	64.4	72.8	95	27	.....	.....
*Key West	69.0	63.9	72.4	74.0	79.9	81.7	83.6	83.0	82.0	78.6	74.8	67.8	75.9	91	49	.....	.....
Kissimmee	62.8	57.0	67.0	73.2	80.8	.....	83.2	83.5	79.8	74.9	69.8	61.8	.....	.....	.....	Feb. 10	Dec. 4
Lake City	58.1	49.7	64.8	68.6	75.6	80.4	81.4	82.0	80.2	69.8	63.2	55.6	69.1	96	15	Mar. 4	Nov. 21
Lemon City	.....	.....	.....	.....	.....	.....	.....	.....	82.3	.....	76.3	66.6	.....	.....	.....	.....	None.
Manatee	59.8	53.4	66.0	67.2	75.4	78.6	78.4	79.6	[c]78.4	71.8	65.4	57.1	69.3	97	23	Feb. 14	Dec. 6
Merritts Island	62.8	56.5	69.8	71.2	77.0	79.2	82.2	82.4	80.9	75.2	69.9	61.6	70.7	97	22	Feb. 8	None.
Moseley Hall	54.0	46.1	61.1	.....	74.8	81.6	81.6	78.2	.....	.....	.....	.....	.....	.....	.....	Feb. 18	.....
Mullett Key	58.8	54.6	64.8	69.0	77.6	82.2	83.7	82.8	80.9	74.4	67.0	58.6	71.2	94	29	Feb. 10	None.
Myers	63.8	57.8	67.9	70.6	77.7	80.1	80.9	81.6	80.4	74.6	70.2	62.0	72.3	94	30	Feb. 9	None.
New Smyrna	58.7	50.8	64.2	66.4	72.4	77.3	79.6	79.0	.....	71.4	66.1	56.0	.....	.....	17	Feb. 18	Dec. 5
Oakhill (a)	62.6	54.9	67.1	70.1	77.4	81.2	82.2	81.3	81.2	76.3	69.6	60.4	71.9	93	21	Feb. 10	.....
Ocala (a)	57.9	49.8	64.1	67.1	73.8	78.8	79.4	79.4	77.2	70.9	62.0	54.0	67.9	94	16	Feb. 10	Dec. 6
Orange City	60.4	52.8	65.6	69.7	77.5	.....	.....	.....	.....	73.1	65.6	57.0	.....	.....	18	Feb. 18	Dec. 6
Orange Lake	.....	.....	.....	.....	.....	.....	.....	83.8	80.6	.....	.....	.....	.....	.....	.....	.....	.....
Orangepark	54.6	46.6	61.6	66.2	74.1	79.9	81.6	81.6	78.0	68.3	59.9	52.4	67.1	96	14	Mar. 4	Dec. 4
Orlando	62.2	54.8	67.5	69.6	77.0	81.2	82.3	82.9	81.4	73.9	67.7	58.2	71.6	97	19	Feb. 20	Dec. 3
Oxford (a)	.....	.....	.....	68.0	73.6	80.5	79.6	81.2	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Pensacola	50.5	44.6	59.2	65.6	73.0	78.8	81.0	80.8	80.6	68.1	58.7	51.0	66.0	93	11	Mar. 3	Dec. 4
Plant City	[c]63.1	54.8	67.4	69.6	77.4	80.3	80.8	81.7	79.6	72.4	67.0	58.6	71.1	99	21	Feb. 10	Dec. 6
St. Francis	.....	.....	.....	.....	.....	.....	.....	.....	.....	72.8	66.6	58.0	.....	.....	.....	.....	.....
St. Francis Barracks	57.4	49.6	63.1	66.4	72.4	77.6	80.7	80.3	77.6	69.8	62.3	54.9	67.7	.....	.....	.....	Dec. 3
Tallahassee	50.3	44.6	59.4	65.8	73.4	79.0	79.4	80.9	77.8	67.0	57.6	49.6	65.4	94	11	Mar. 3	Nov. 27
*Tampa	60.8	54.4	66.4	69.2	77.2	80.0	81.0	81.7	80.2	73.6	67.0	59.2	70.9	95	22	Feb. 14	Dec. 4
Tarpon Springs	58.6	51.8	64.7	68.5	75.0	78.4	79.4	80.5	78.7	72.0	64.8	56.3	69.1	90	22	Mar. 4	Dec. 6
*Titusville	61.0	53.6	65.4	68.0	74.8	79.4	80.8	81.2	79.2	73.1	.....	.....	.....	95	19	Feb. 14	.....
Georgia.																	
Adairsville	37.4	32.2	49.8	60.4	66.4	76.3	76.8	77.6	75.4	[e]56.4	[c]49.4	41.8	58.3	97	0	Apr. 4	Oct. 21
*Alapaha	50.2	42.8	58.9	[c]65.1	72.9	79.8	80.3	79.6	78.8	65.2	.....	.....	.....	98	.....	.....	.....
*Albany	49.4	42.9	58.0	65.4	73.7	81.6	82.9	82.0	79.7	64.8	55.1	48.6	65.3	102	11	.....	.....
*Americus	49.2	41.0	56.6	64.9	74.0	81.7	81.8	82.2	79.2	61.8	54.8	47.8	64.6	100	5	.....	.....
Athens [1]	40.7	35.0	50.4	59.4	.....	76.8	77.0	77.7	75.1	58.6	52.5	.....	.....	96	.....	.....	.....
*Athens [2]	[e]41.4	34.6	51.5	60.4	68.5	77.6	79.2	79.8	75.3	58.5	.....	.....	.....	99	.....	.....	.....
*Atlanta	40.4	34.4	51.4	60.4	67.0	76.8	77.0	77.1	76.5	59.6	52.4	43.6	59.7	93	0	Mar. 21	Nov. 12
*Augusta	45.4	38.2	54.8	62.0	69.0	78.7	80.2	80.5	77.8	61.5	54.4	47.3	62.5	100	8	Mar. 18	Nov. 13
*Bainbridge	.....	.....	.....	.....	74.4	81.0	82.4	82.0	79.7	64.4	.....	.....	.....	100	.....	.....	.....
Blakely (e)	48.1	42.8	59.4	64.7	70.8	80.2	79.9	81.4	79.2	66.5	57.1	49.6	64.8	98	10	Mar. 18	Nov. 12
Brag	47.8	41.2	57.9	64.5	72.2	79.4	81.3	81.6	78.6	.....	.....	49.0	.....	104	.....	Mar. 23	Dec. 3
Brunswick	50.7	43.4	60.0	66.4	72.8	[c]76.2	.....	.....	.....	68.4	.....	53.0	.....	.....	.....	Mar. 18	.....
*Camak	42.0	35.0	50.8	.....	68.6	78.0	78.8	78.8	77.2	59.6	.....	.....	.....	.....	.....	.....	.....
Clayton	37.9	31.6	46.8	55.6	62.4	72.1	71.8	71.7	68.2	50.6	49.6	39.6	54.8	95	— 5	Apr. 15	Oct. 1
*Columbus	48.4	39.8	57.3	64.0	72.2	80.2	80.7	82.0	80.5	62.5	.....	.....	.....	.....	.....	.....	.....
*Cordele	.....	.....	.....	.....	72.4	80.6	81.3	81.2	78.2	[c]64.4	.....	.....	.....	98	.....	.....	.....
Covington	42.4	35.0	51.7	59.8	67.6	77.4	78.6	78.3	76.0	58.5	51.8	[c]43.7	60.1	98	3	Apr. 4	Nov. 13
Dahlonega	38.7	34.4	48.6	58.5	62.6	72.2	73.6	74.4	69.6	56.6	52.3	42.1	57.0	92	— 5	Apr. 4	Nov. 13
Darien	58.6	47.9	64.3	68.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Feb. 14	.....
Diamond	.....	29.6	46.0	56.7	63.6	72.6	72.8	72.6	70.6	52.8	47.6	38.2	.....	96	.....	May 15	Oct. 1
*Eastman	.....	.....	.....	.....	[c]73.3	79.6	79.9	81.7	79.0	63.8	.....	.....	.....	99	.....	.....	.....
*Elberton	39.3	36.2	51.8	60.8	68.7	78.6	78.0	78.5	77.8	61.8	.....	45.4	.....	99	1	Feb. 24	Dec. 2
Fleming	49.0	41.2	57.3	63.1	72.6	79.8	.....	81.8	77.8	63.0	56.6	49.0	.....	.....	12	Mar. 18	Nov. 21
Forsyth (a)	47.6	41.1	56.8	64.8	70.6	79.9	79.9	80.7	80.5	65.4	58.4	49.6	64.6	98	8	Mar. 21	Oct. 21
*Fort Gaines	.....	41.2	58.8	.....	72.3	80.3	82.2	81.2	79.0	63.0	54.1	49.7	.....	100	.....	.....	.....
*Gainesville	.....	.....	.....	.....	62.7	72.8	75.8	75.0	72.8	56.4	49.6	41.5	.....	91	.....	.....	.....
Gillsville	.....	32.4	.....	58.9	66.7	76.0	77.2	77.5	76.0	60.0	53.6	43.5	.....	98	.....	Apr. 4	Nov. 13
*Griffin	.....	.....	.....	62.2	65.0	76.3	79.4	75.8	72.4	61.6	.....	.....	.....	98	.....	.....	.....
Hawkinsville	49.4	40.0	60.8	64.9	.....	.....	.....	.....	76.8	.....	57.8	.....	.....	.....	.....	Feb. 27	Nov. 21
Hephzibah (f)	46.3	39.0	55.6	61.9	71.7	.....	79.1	77.8	76.8	63.2	.....	47.8	.....	.....	10	Mar. 18	Dec. 4
Lagrange	43.0	35.4	52.6	.....	67.8	76.6	77.2	78.1	76.4	59.8	52.5	44.5	.....	96	2	Mar. 21	Nov. 12
Leverett	[e]41.1	35.7	51.0	59.0	.....	.....	79.4	79.7	[c]76.8	.....	.....	.....	.....	.....	.....	Apr. 4	.....
Louisville	44.8	39.1	54.8	62.0	68.5	78.0	79.2	79.8	78.2	60.9	53.2	45.0	62.0	100	7	Mar. 17	Nov. 21

[1] Prof. L. H. Charbonnier.

[2] Cotton region observer.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.																	
Lumpkin	.....	.....	.....	.....	70.9	79.5	81.0	.....	.....	66.0	.....	.....	.....	.....	.....	.....	.....
*Macon	.....	.....	[c]50.6	[c]62.6	69.8	79.1	79.5	80.6	78.1	59.8	.....	.....	.....	99	.....	.....	.....
Marietta	39.8	33.6	50.0	59.2	65.3	74.4	75.2	75.6	74.0	58.0	51.8	42.4	58.3	93	0	Apr. 4	Nov. 12
Marshallville	47.4	39.8	57.4	65.3	73.0	81.2	81.4	.....	80.0	64.6	56.6	48.1	.....	.....	8	Mar. 17	Nov. 12
Milledgeville	.....	.....	.....	.....	68.7	79.4	76.2	79.5	75.8	62.4	53.0	45.8	.....	96	.....	.....	Nov. 13
*Millen	[c]48.5	40.1	58.0	64.9	[c]74.1	80.4	82.1	82.4	79.2	62.7	54.3	47.0	64.5	104	10	.....	.....
Monticello (*a*)	44.6	37.4	54.7	62.6	70.5	81.0	80.6	75.7	[c]70.8	.....	57.6	47.6	.....	94	6	Feb. 23	Dec. 4
Morgan	49.0	42.0	58.4	65.7	72.4	79.2	80.9	80.7	79.3	64.0	56.2	48.0	64.6	102	10	Feb. 21	Oct. 21
*Newnan	.....	.....	.....	.....	68.9	78.6	78.6	78.4	76.9	59.0	.....	.....	.....	99	.....	.....	.....
Piscola	51.6	44.8	60.4	66.6	75.0	.....	.....	.....	.....	63.2	.....	.....	.....	.....	.....	Feb. 18	.....
Point Peter (*a*)	40.6	35.1	51.5	60.1	67.3	77.4	79.6	79.3	75.5	58.8	52.6	43.6	60.1	98	3	Apr. 4	Nov. 20
Poulan	48.1	41.2	56.8	63.4	71.3	79.0	80.8	81.0	79.1	64.6	56.2	48.4	64.2	100	10	Mar. 18	Nov. 21
*Quitman	51.0	44.8	.....	64.4	72.7	78.9	80.3	80.2	77.6	65.7	56.1	.....	.....	96	12	.....	.....
Ramsey	40.0	34.8	51.8	59.6	65.6	74.2	74.8	75.8	75.2	56.8	53.2	44.6	58.9	96	0	Apr. 4	Oct. 1
*Rome	40.2	33.8	49.6	60.2	66.4	76.0	77.0	77.2	74.9	56.3	50.8	42.2	58.7	95	3	Mar. 18	Oct. 21
*Savannah	50.4	42.8	58.4	64.6	71.2	79.4	81.6	82.2	78.2	66.4	58.1	51.0	65.4	98	12	Feb. 18†	Nov. 21
Talbotton	45.6	36.5	55.2	62.6	.....	77.7	77.0	78.0	76.8	61.2	54.2	45.4	.....	96	5	Mar. 18	Nov. 21
*Thomasville	50.7	44.4	59.8	65.7	73.6	79.6	81.4	81.8	80.3	67.5	57.4	51.0	66.1	99	12	.....	.....
*Toccoa	40.8	34.6	51.4	59.3	65.6	75.6	77.0	74.8	73.8	56.6	.....	46.0	.....	95	— 1	.....	.....
*Union Point	.....	.....	.....	.....	68.0	76.3	78.2	78.7	76.3	59.2	.....	.....	.....	94	.....	.....	.....
*Washington	[d]43.8	[e]35.6	[e]53.4	.....	68.8	78.4	79.0	79.2	76.4	60.2	.....	[k]46.5	.....	98	4	.....	.....
*Waycross	.....	.....	.....	.....	72.4	79.2	80.6	81.2	78.4	66.2	.....	.....	.....	96	.....	.....	.....
*Waynesboro	.....	.....	.....	.....	70.8	78.8	80.2	79.4	76.0	60.6	.....	.....	.....	99	.....	.....	.....
*Westpoint	.....	.....	.....	62.2	71.0	80.4	80.4	80.5	78.2	59.4	.....	.....	.....	99	.....	.....	.....
Idaho.																	
American Falls	22.2	24.2	35.3	47.3	54.0	60.0	68.1	69.7	57.2	46.8	32.3	23.6	45.1	99	—22	.....	.....
Atlanta	19.5	26.0	28.2	40.1	45.2	.....	.....	[j]61.4	.....	.....	[g]29.4	19.8	.....	.....	— 7	.....	.....
Bannister	.....	.....	.....	.....	.....	.....	.....	58.7	45.0	.....	40.9	.....	.....	.....	.....	.....	Sept. 20
Birchcreek	.....	.....	.....	.....	51.4	57.6	65.4	66.0	52.6	.....	.....	.....	.....	94	.....	.....	.....
Blackfoot	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30.3	21.8	.....	.....	.....	.....	.....
Bliss	26.9	30.4	39.4	50.9	57.4	64.8	72.2	70.0	55.5	51.6	36.1	27.9	48.6	104	— 6	.....	Sept. 10
Boise Barracks	31.0	32.8	41.2	52.2	57.2	62.6	69.5	68.8	56.7	53.0	36.8	30.4	49.4	103	0	June 16	Sept. 20
Carriboo	.....	.....	.....	.....	.....	55.0	64.6	67.0	54.8	.....	.....	.....	.....	.....	.....	.....	.....
Challis	17.6	20.2	30.5	45.1	.....	.....	.....	.....	.....	.....	38.4	20.7	.....	.....	—20	.....	.....
Chesterfield	15.5	18.6	24.6	42.0	48.6	52.8	[e]60.1	61.4	49.9	41.4	25.6	14.5	37.9	98	—34	.....	Aug. 9
Cœur d'Alene	.....	.....	.....	.....	.....	.....	.....	.....	52.6	49.8	38.4	30.0	.....	.....	.....	.....	Sept. 6
Corral (*a*)	.....	.....	37.0	43.2	50.8	51.4	64.7	65.0	51.1	45.9	29.7	17.4	.....	.....	.....	June —	Aug. 8
Dairy	.....	.....	.....	.....	.....	68.6	67.2	68.4	56.8	53.4	35.2	28.2	.....	.....	.....	June 15	Sept. 20
Fort Lemhi	.....	.....	.....	47.8	53.7	60.0	67.5	.....	52.2	44.2	29.8	19.8	.....	.....	.....	June 16	.....
Fort Sherman	25.7	32.0	36.8	47.4	53.0	60.2	66.3	65.0	52.6	48.4	36.7	30.0	46.2	96	— 2	May 9	Sept. 10
Fraser	29.8	33.4	36.6	47.4	51.4	58.5	64.0	64.8	[f]50.4	[h]51.1	.....	28.8	.....	94	.....	.....	Sept. 5
Garden Valley	22.4	25.2	34.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gibbonsville	.....	28.4	32.2	45.6	52.0	56.2	64.1	62.8	50.8	43.5	.....	.....	.....	93	.....	July 20	.....
Grangeville	28.7	34.2	35.9	47.0	50.2	56.0	63.5	66.4	51.2	51.0	35.6	30.9	45.9	92	2	.....	.....
Hailey	18.8	25.6	30.4	45.4	[d]51.0	[g]59.2	[e]56.2	69.2	53.1	53.8	.....	.....	.....	100	.....	June 15	Aug. 9
Idaho City	22.0	26.6	33.6	46.0	51.1	55.0	[e]66.0	65.2	55.8	[c]52.8	[f]33.8	24.2	44.3	98	—12	June 16	.....
*Idaho Falls	16.6	17.3	31.8	45.1	51.5	56.8	65.4	67.1	55.6	46.2	28.4	19.0	41.7	94	—32	June 18	Sept. 6†
Kootenai	21.0	29.4	34.8	47.2	52.7	60.2	[d]64.3	66.3	49.2	47.4	34.6	26.8	44.5	95	— 3	.....	.....
Lake	10.8	8.5	17.6	36.5	42.6	48.0	56.2	.....	46.1	[j]44.1	[f]23.6	12.4	.....	.....	—28	.....	.....
Lewiston	30.4	40.2	44.4	55.0	59.2	67.4	73.4	72.8	58.5	52.2	.....	.....	.....	106	.....	May 10	Sept. 21
Martin	16.0	19.4	26.2	41.8	48.9	53.6	61.4	60.0	53.8	43.5	25.4	15.0	38.9	89	—21	June 18	Aug. 7
Moscow	28.6	32.4	36.9	48.7	51.2	57.5	65.0	62.7	48.4	45.2	37.8	32.4	45.6	96	— 1	May 30	.....
Murray	24.8	29.8	34.4	45.8	49.8	54.9	60.8	60.9	47.8	44.8	32.6	25.6	42.6	93	— 6	May 10	Aug. 14
Nampa	28.8	31.2	40.2	51.0	55.6	61.3	69.2	69.2	56.8	52.4	36.8	29.9	48.5	102	2	.....	Sept. 22
Oakley	26.8	31.2	38.5	50.4	55.9	61.4	68.5	69.8	57.6	50.8	35.3	26.5	47.7	98	—13	June 15	Sept. 5
Paris	20.0	23.2	28.4	44.6	50.2	54.2	62.2	65.5	55.6	47.7	31.2	17.8	41.7	94	—29	July 6	Aug. 9
Payette	26.2	29.8	41.7	53.4	58.5	65.8	70.8	72.0	57.2	53.6	39.4	29.6	49.8	105	— 5	May 21	Sept. 7
St. Anthony	.....	.....	.....	.....	.....	.....	62.8	66.2	54.0	48.4	36.2	.....	.....	.....	.....	July 9	Sept. 14
Salubria	21.4	20.4	35.4	52.0	56.8	60.2	70.6	70.9	56.4	51.2	36.6	25.9	46.5	105	—22	June 17	Aug. 10
Soldier	.....	.....	25.8	41.2	51.0	53.6	64.8	65.0	54.4	50.4	32.8	15.6	.....	95	.....	July 18	Sept. 6
Swan Valley	21.8	18.5	27.2	44.2	49.8	53.8	62.8	64.4	54.7	43.5	28.0	18.2	40.6	96	—31	July 18	Aug. 9
Three Creek	24.6	26.0	33.2	44.4	47.2	.....	65.1	64.8	50.4	.....	.....	.....	.....	.....	.....	.....	.....
Warren	.....	.....	.....	41.0	.....	50.3	58.0	59.4	48.2	47.7	33.2	23.5	.....	.....	.....	.....	.....
Illinois.																	
Albion	26.3	24.0	43.0	58.8	64.7	76.8	75.6	76.4	71.9	51.4	43.4	36.5	54.1	99	—15	May 14	Oct. 9
Alexander	.....	.....	.....	.....	63.2	75.0	75.3	76.8	71.0	50.2	39.6	34.0	.....	102	.....	May 21	Sept. 30
Ashton (*a*)	.....	.....	27.0	46.9	60.6	72.0	70.6	72.2	66.4	42.3	31.6	24.2	.....	96	.....	May 27	Sept. 30
Atwood (*c*)	15.6	13.4	33.4	48.6	.....	69.3	69.0	.....	.....	43.6	36.7	30.0	.....	.....	.....	May 27	Oct. 1
Aurora	14.8	14.8	32.5	50.0	60.2	70.6	71.6	74.1	67.8	45.0	33.8	26.9	48.6	99	—19	May 27	Sept. 30
Bloomington	17.5	18.8	37.2	54.8	64.0	75.2	73.4	[f]70.0	70.0	47.6	38.0	31.0	49.8	103	—24	May 15	Sept. 29
Braidwood	19.8	19.2	36.0	51.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bushnell	18.6	17.7	36.0	55.0	64.1	75.4	74.8	74.8	73.0	49.6	38.7	31.7	51.0	98	—22	May 13	Oct. 9
*Cairo	31.4	28.4	46.9	60.3	66.4	77.2	76.0	78.1	74.5	54.6	46.6	40.0	56.7	95	— 9	Mar. 21‖	Oct. 20
Cambridge	17.8	17.8	36.5	53.9	64.2	73.0	72.6	73.2	67.8	47.2	36.8	29.1	49.2	96	—19	May 14	Sept. 30
Carlinville	22.8	22.5	41.4	56.6	65.0	76.0	74.6	76.0	72.2	50.8	40.2	34.1	52.7	99	—18	May 14	Sept. 30
Carrollton	22.3	20.3	37.6	55.4	63.2	[75.0]	[74.5]	74.2	69.4	48.4	38.3	33.4	[51.0]	.....	—15	May 16	Oct. 9
Catlin	.....	.....	.....	.....	65.4	.....	.....	.....	.....	.....	38.6	[e]30.4	.....	.....	.....	May 22	Sept. 30
Casenovia (*a*)	.....	.....	.....	.....	.....	.....	.....	.....	67.5	44.9	35.1	29.0	.....	.....	.....	.....	Sept. 30
Chemung (*a*)	12.9	12.3	30.4	49.5	[e]61.2	73.3	73.0	74.2	67.4	44.5	33.1	27.1	46.6	99	—24	May 27	Sept. 30
*Chicago	17.6	17.0	31.7	46.3	59.2	70.2	70.2	72.4	68.6	46.2	36.5	29.6	47.1	95	—15	May 14†	Sept. 30
Cisne	.....	.....	.....	.....	.....	.....	76.1	76.9	71.4	.....	[k]41.0	37.2	.....	.....	.....	.....	Sept. 30
Clear Creek	18.1	16.0	36.8	50.4	63.8	75.6	71.9	73.7	68.8	47.0	36.4	28.8	48.9	105	—22	May 21	Sept. 30
Coatesburg	.....	.....	.....	.....	.....	.....	.....	75.0	69.2	50.3	39.7	32.6	.....	.....	.....	.....	Sept. 30
Decatur	22.0	20.7	40.4	56.0	66.0	75.6	73.6	75.2	71.0	50.0	39.8	33.4	52.0	100	—21	May 14	Oct. 9

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

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.		
Illinois—Continued.																	
Dixon	13.9	13.8	33.4	51.8	61.2	72.2	72.8	75.0	68.5	45.8	34.5	27.2	47.5	99	—21	May 16	Sept. 30
Duquoin (*a*)	.....	.....	.....	.....	.....	79.3	79.0	78.9	75.6	52.8	43.9	37.1	.....	101	.....	May 14	Oct. 9
East Peoria	20.0	18.3	37.6	53.6	[j]68.8	74.9	73.6	73.0	68.6	46.2	38.8	32.0	50.4	102	—20	May 26	Oct. 2
Effingham	20.6	20.8	41.4	60.1	63.9	77.6	75.2	.....	77.4	.....	.....	37.4	.....	.....	—18	May 14	.....
Evanston (*h*)	17.0	16.0	32.4	44.0	59.0	71.2	69.8	75.1	70.0	47.2	37.2	28.5	47.3	.....	.....	.....	.....
Flora (*a*)	.....	.....	.....	.....	.....	.....	.....	.....	.....	49.8	43.3	.....	.....	.....	.....	.....	.....
Fort Sheridan	15.5	13.6	31.5	45.5	57.4	69.7	68.8	71.4	66.6	44.1	35.4	28.1	45.6	95	—16	May 21	Sept. 30
Friend Grove (*a*)	.....	.....	.....	.....	.....	.....	.....	.....	74.6	49.6	45.3	38.2	.....	.....	.....	.....	Oct. 2
Galva	16.4	15.6	35.8	52.8	63.1	73.6	72.7	73.4	67.4	46.0	35.4	28.6	48.4	99	—23	May 21	Sept. 30
Gilman	19.6	18.6	[c]36.6	56.2	[g]67.4	.....	73.2	.....	.....	48.6	39.8	32.3	.....	.....	.....	May 21	Sept. 30
Glenwood (*a*)	.....	.....	.....	.....	.....	.....	.....	72.3	66.0	43.5	34.0	28.1	.....	.....	.....	.....	Sept. 30
Golconda	31.8	29.1	48.0	61.4	[i]67.8	[78.3]	78.0	78.2	76.6	54.8	47.4	42.0	[57.8]	97	—11	.....	Oct. 2
Greenville	23.6	20.8	42.2	57.8	66.0	76.4	75.6	78.0	72.8	50.4	41.3	35.7	53.6	101	—18	May 14	Oct. 9
Griggsville	21.9	20.7	41.4	55.8	64.5	74.6	73.8	72.9	71.8	51.3	41.9	33.6	52.0	95	—20	May 14	Oct. 9
Halliday (*e*)	[d]27.9	[d]26.6	[e]43.1	[d]62.6	[d]72.4	[e]80.0	[d]81.4	[d]82.2	[e]74.4	[d]52.8	[d]45.4	[e]38.9	[j]57.3	98	— 9	.....	.....
Havana	22.8	21.5	41.7	56.6	66.0	76.4	75.1	76.4	71.3	49.9	40.7	35.4	52.8	96	—16	May 17	Oct. 9
Herrins Prairie (*a*)	28.1	25.4	44.8	60.3	66.8	77.4	77.5	78.4	74.9	54.9	47.4	39.9	56.3	96	— 8	May 22	Oct. 9
Hillsboro (*a*)	.....	.....	.....	.....	67.0	78.1	76.8	78.3	72.9	51.6	42.0	36.0	.....	101	.....	.....	Oct. 9
Holts	.....	.....	.....	.....	66.6	76.3	75.8	77.7	[c]72.8	.....	.....	.....	.....	102	.....	May 14	.....
Iron	.....	.....	.....	.....	.....	.....	.....	.....	74.8	51.4	46.0	38.2	.....	.....	.....	.....	Oct. 9
Joliet	.....	.....	.....	.....	63.6	74.4	73.5	75.6	71.8	48.4	37.8	32.0	.....	100	.....	May 21	Sept. 30
Jordans Grove	27.4	24.6	45.1	54.0	64.9	75.4	74.9	76.8	71.3	52.5	43.8	38.5	54.1	99	—12	.....	Oct. 9
Kankakee (*a*)	17.2	14.1	34.1	50.0	60.6	71.4	68.2	72.0	67.4	47.8	38.6	31.3	47.7	92	—17	.....	.....
Kankakee (*b*)	.....	.....	.....	.....	.....	.....	.....	.....	[d]72.2	[d]48.2	[d]38.0	[f]31.0	.....	.....	.....	.....	Sept. 30
Knoxville (*e*)	17.2	17.2	36.0	54.0	63.4	74.5	74.5	75.6	69.8	47.7	38.0	30.2	49.8	100	—26	May 14	Sept. 30
Lagrange	17.5	16.4	34.2	49.0	59.8	70.6	[70.3]	71.8	67.0	45.0	35.5	28.4	[47.1]	94	—16	May 21	Sept. 30
Laharpe (*a*)	.....	.....	.....	.....	63.4	73.4	76.0	75.7	70.3	47.6	36.9	[h]29.6	.....	100	.....	May 21	Sept. 30
Lanark (*a*)	.....	.....	.....	.....	60.4	71.8	71.4	72.1	66.7	43.0	33.9	26.8	.....	99	.....	May 27	Sept. 30
Lexington	19.3	19.1	36.0	52.4	63.4	74.3	72.4	74.7	68.4	45.8	37.4	31.0	49.5	98	—17	May 21	Sept. 30
Louisville	26.7	22.6	42.9	56.4	64.3	74.8	73.4	75.0	71.0	50.0	42.6	35.6	52.9	96	—17	May 14	Oct. 1
McLeansboro (*c*)	.....	.....	39.0	55.8	64.2	74.6	73.4	74.6	69.4	46.4	41.2	35.0	.....	.....	.....	May 14	Oct. 1
Martinsville	22.6	20.4	40.0	55.4	63.8	75.0	73.9	74.6	69.8	48.8	40.6	34.3	51.6	98	—18	May 14	Sept. 30
Mascoutah (*e*)	24.0	22.6	41.5	54.8	65.4	77.5	78.8	78.7	73.7	52.1	41.1	38.8	54.1	101	—16	May 14	Oct. 9
Mattoon	26.3	25.1	43.7	58.6	[c]63.8	76.1	72.3	.....	.....	52.4	43.2	36.4	.....	.....	.....	May 21	Oct. 1
Minonk (*a*)	.....	.....	.....	.....	.....	.....	.....	.....	.....	46.0	36.5	29.2	.....	.....	.....	.....	Oct. 8
Monmouth	17.4	17.5	37.9	53.1	62.8	73.2	71.2	73.8	68.0	48.5	37.0	29.8	49.2	99	—22	May 14	Sept. 30
Morrisonville	.....	.....	.....	.....	.....	.....	.....	73.3	72.0	48.7	39.8	33.3	.....	.....	.....	.....	Oct. 9
Mount Pulaski	21.0	18.2	39.2	54.2	64.5	75.2	73.2	75.7	71.4	50.4	39.8	33.2	51.3	99	—20	May 21	Sept. 30
Mount Vernon	.....	.....	.....	.....	65.4	76.2	76.0	77.0	73.2	51.1	46.0	39.3	.....	97	.....	May 14	Oct. 1
New Burnside	.....	.....	46.2	[c]58.8	65.6	77.9	77.0	78.1	75.9	53.4	45.8	38.8	.....	100	.....	May 14	Oct. 1
Olney (*a*)[1]	26.6	24.4	43.8	58.1	66.7	78.0	76.6	78.5	73.4	51.4	44.4	37.0	54.9	98	—16	May 14	Oct. 1
Oregon	13.1	16.4	32.2	47.4	.....	71.6	.....	.....	.....	.....	.....	26.5	.....	.....	—26	.....	.....
Oswego (*a*)	13.3	13.5	31.4	48.0	59.1	70.9	70.5	71.6	66.0	42.6	33.7	26.4	45.6	97	—24	May 27	Sept. 30
Ottawa	15.6	14.6	34.0	51.6	62.8	74.4	72.8	74.2	[c]69.3	45.6	35.8	28.2	48.2	102	—20	May 21	Sept. 30
Palestine	24.8	[23.0]	[41.4]	[f]55.6	61.8	76.4	75.5	76.4	70.3	47.2	42.3	35.0	[52.5]	98	—11	May 14	Oct. 1
Paris	22.2	20.2	37.7	55.4	64.1	75.2	[c]73.8	75.6	72.8	49.2	39.6	[j]33.4	51.6	101	—20	May 14	Sept. 30
Peoria	20.2	19.0	38.8	55.7	66.5	77.4	75.9	76.6	71.2	48.6	39.4	33.0	51.9	98	—22	May 14	Sept. 30
Philo	19.8	17.8	37.8	52.8	62.2	73.5	72.2	74.0	69.7	46.6	38.4	31.2	48.8	100	—20	May 27	Sept. 30
Plumhill (*c*)	.....	.....	.....	.....	.....	.....	.....	74.8	69.4	47.0	40.8	34.6	.....	.....	.....	.....	Sept. 30
Rantoul (*a*)	19.8	17.8	37.2	54.3	65.0	77.4	75.6	73.8	65.8	45.0	37.6	31.3	50.0	100	—18	May 27	Sept. 30
Reynolds	.....	.....	.....	.....	.....	.....	.....	.....	68.0	46.6	35.8	28.7	.....	.....	.....	.....	.....
Riley	12.4	12.4	30.5	48.6	59.2	70.8	70.2	71.8	66.2	43.6	32.7	26.1	45.4	96	—23	May 27	Sept. 30
Rockford	14.2	14.1	31.1	51.6	62.2	75.7	76.1	75.8	71.2	45.2	34.4	26.8	48.2	99	—22	May 20	Sept. 30
Rose Hill	.....	.....	.....	.....	.....	.....	.....	80.7	72.8	.....	44.5	36.0	.....	.....	.....	.....	Oct. 1
Rushville	21.8	20.1	40.1	56.2	65.2	74.8	75.4	76.4	72.9	51.2	37.9	29.7	51.8	100	—20	May 16	Oct. 9
St. Charles	.....	.....	.....	.....	60.3	74.1	72.0	73.7	66.8	.....	.....	27.3	.....	104	.....	May 27	Sept. 30
St. Johns (*a*)	25.8	26.0	43.7	60.5	69.8	80.8	80.4	80.7	74.6	51.8	42.4	35.9	55.2	98	—10	May 18	Oct. 9
Scales Mound	.....	.....	.....	.....	.....	.....	.....	73.6	68.5	45.8	35.8	28.4	.....	.....	.....	.....	Sept. 30
Springfield	21.5	19.6	39.4	54.9	63.8	74.6	73.4	75.3	70.6	49.5	39.6	33.6	51.3	95	—20	May 14	Oct. 9
Streator	17.0	16.2	36.8	53.4	63.4	[75.2]	76.7	76.2	72.7	47.3	37.1	29.6	[50.2]	98	—25	May 20	Sept. 29
Sycamore (*a*)	15.1	15.7	31.7	48.9	59.6	70.6	69.7	71.8	65.5	43.8	33.8	27.1	46.1	92	—18	May 20	Sept. 30
Tampico	.....	.....	.....	.....	61.5	73.0	73.7	75.8	67.5	.....	.....	.....	.....	98	.....	May 20	Sept. 30
Tiskilwa (*c*)	.....	.....	.....	.....	67.8	79.7	75.3	76.4	66.0	43.7	34.8	28.0	.....	101	.....	May 20	Sept. 30
Tuscola (*a*)	21.5	18.9	39.2	54.2	64.1	74.4	72.2	73.7	69.2	47.3	40.8	35.2	50.9	99	—18	May 14	Oct. 1
Walnut	15.8	15.8	35.9	56.4	64.6	[j]74.0	74.5	75.5	70.5	48.4	36.2	[d]28.3	49.7	100	—20	May 14	Sept. 30
Wheaton (*c*)	.....	.....	.....	.....	58.0	71.6	71.9	73.8	69.2	39.0	32.4	25.6	.....	96	.....	May 21	Sept. 30
Winnebago	12.2	12.9	31.2	50.1	[d]59.6	70.9	70.8	72.0	66.8	43.8	32.6	26.0	45.7	98	—25	May 27	Sept. 30
Zion	[i]20.0	.....	34.1	51.0	60.4	70.8	71.4	72.4	67.2	44.2	34.4	26.6	.....	.....	.....	May 20	Sept. 30
Indiana.																	
Anderson	.....	.....	.....	.....	.....	74.0	72.0	73.7	69.7	47.2	41.4	33.4	.....	.....	.....	.....	Sept. 30
Angola (*a*)	19.4	17.9	31.4	51.8	61.7	74.1	74.7	75.0	69.5	45.9	37.5	30.6	49.1	104	—14	May 21	Oct. 10
Ashboro	23.2	21.3	40.8	55.4	61.9	74.6	72.8	74.7	70.5	48.6	[d]40.4	35.0	51.6	98	—19	May 14	Sept. 30
Bedford	.....	.....	39.6	56.1	65.1	.....	.....	.....	68.6	48.5	44.6	36.0	.....	.....	.....	May 15	Sept. 30
Bluffton	.....	.....	.....	.....	.....	.....	.....	.....	.....	45.2	38.8	31.8	.....	.....	.....	.....	.....
Butlerville	25.4	21.9	41.0	55.7	62.4	74.6	72.8	76.6	71.0	48.2	42.5	35.9	52.3	100	—16	May 17	Sept. 30
Cambridge City (*a*)	22.0	19.4	37.6	51.9	59.9	72.3	71.2	73.0	67.7	46.3	40.1	35.3	49.7	97	—17	May 23	Sept. 30
Cannelton	29.0	25.9	46.9	61.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 3	.....
Clinton	23.0	20.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Columbia City	18.8	17.8	33.2	52.4	61.3	72.8	72.7	72.8	67.4	44.7	37.8	30.6	48.5	95	—14	May 21	Oct. 1†
Columbus	23.6	21.2	39.6	53.8	62.1	74.3	71.7	75.3	69.1	48.0	40.8	34.2	51.1	100	—15	May 17	Sept. 30
Connersville	22.6	19.3	37.5	52.1	60.9	72.5	72.4	73.9	68.4	46.2	40.6	32.2	49.9	96	—15	May 21	Sept. 30
Degonia Springs	28.1	24.9	44.2	58.1	63.9	75.7	75.3	76.5	72.0	.....	.....	.....	.....	94	.....	May 14	.....
Delphi	19.0	17.9	36.9	54.8	64.5	73.9	72.6	74.3	69.3	47.9	41.4	34.2	50.5	99	—18	May 27	Sept. 30
Edwardsville (*a*)	29.1	25.3	43.9	59.6	65.0	76.5	75.9	77.6	73.6	52.2	45.5	38.8	55.2	93	—14	May 14	Oct. 20
Evansville	25.6	24.6	44.9	58.3	66.7	76.4	75.8	77.0	73.6	49.4	44.2	36.8	54.4	101	—11	.....	Sept. 30
Farmland	23.0	20.4	37.1	52.9	62.6	72.2	71.3	72.9	68.2	[b]45.7	41.8	34.0	50.2	96	—12	May 21†	Oct. 9†

[1] V. E. Phillips.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.
Indiana—Continued.																	
Franklin (a)	23.1	21.0	38.9	54.7	63.5	.....	.....	.....	[c]68.5	47.0	41.1	33.9	.....	.....	—16	.....	.....
Greencastle	.....	.....	.....	.....	.....	.....	.....	.....	.....	48.0	41.0	33.5	.....	.....	.....	.....	Oct. 9
Hammond	13.9	15.4	33.8	50.3	62.8	73.5	69.8	72.2	70.9	.....	36.0	30.6	.....	.....	—18	May 26†	Sept. 30†
Huntingburg	27.5	25.4	42.9	57.0	64.3	74.9	72.9	73.7	70.8	48.6	.....	.....	.....	96	—13	May 14	Sept. 30
Huntington	19.8	18.0	34.0	52.5	62.5	72.3	72.2	73.9	66.8	45.6	38.6	31.8	49.0	97	—13	May 26	Sept. 30
*Indianapolis	22.9	21.7	38.8	55.2	63.8	75.6	74.2	76.2	70.8	49.4	42.3	34.1	52.1	100	—14	May 21	Sept. 30
Jasper	26.9	23.7	43.8	58.0	65.0	75.2	74.8	76.3	72.7	49.6	43.8	38.8	54.0	98	—15	May 14	Sept. 30
Jeffersonville	29.7	25.6	44.0	57.4	64.5	76.1	74.7	76.8	72.7	51.4	44.8	38.9	54.7	97	—12	May 14	Oct. 1
Kokomo	20.9	19.4	36.5	52.3	63.8	76.1	[c]74.2	75.1	69.7	46.8	40.2	32.4	50.6	101	—17	May 27	Sept. 30
Laconia	28.5	24.1	42.8	57.1	.....	.....	75.8	76.1	72.2	50.1	43.8	.....	.....	.....	—13	Apr. 4	Sept. 30
Lafayette	19.7	18.2	37.8	54.1	63.2	74.6	72.8	75.0	69.6	47.2	39.6	31.5	50.3	100	—24	May 27	Sept. 30
Logansport	20.6	18.8	36.7	54.9	63.9	73.7	74.7	74.0	69.1	48.0	41.1	32.9	50.7	96	—15	May 16	Oct. 7†
Lyford	.....	.....	.....	.....	63.2	75.2	73.3	75.3	70.9	48.1	41.3	33.0	.....	.....	.....	May 14	Sept. 30†
Madison	29.0	24.5	42.7	56.6	64.5	75.7	74.4	77.1	72.7	51.5	44.6	39.0	54.4	98	—16	Apr. 15†	Sept. 30
Marengo (a)	28.2	24.4	42.8	57.4	65.6	74.9	75.1	.....	71.0	.....	42.7	37.2	.....	.....	—14	May 14	Sept. 30
Marion	21.3	17.9	35.1	52.3	62.9	74.0	73.4	74.9	70.5	46.8	40.8	33.5	50.3	100	—18	May 22†	Oct. 1†
Mauzy	22.1	18.1	37.0	52.3	61.7	73.4	73.2	74.1	68.9	45.8	39.8	32.8	49.9	99	—16	May 22	Sept. 30
Mount Vernon	.....	.....	.....	58.4	65.0	78.2	76.4	78.3	74.7	52.0	44.7	37.2	.....	100	.....	May 14	Oct. 1
Muncie	[d]24.8	23.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Princeton (a)	26.0	23.7	42.4	56.3	64.5	76.7	75.2	77.0	71.4	51.9	43.8	36.5	53.8	100	—15	May 14	Oct. 1†
Rockville	21.2	19.5	39.2	54.9	63.5	74.6	71.9	74.8	70.4	46.6	40.7	32.5	50.8	100	—20	May 14	Oct. 1
Scottsburg (a)	26.1	23.3	41.1	54.0	64.2	75.4	73.3	75.0	70.1	47.9	42.0	35.8	52.4	97	—14	Apr. 15†	Sept. 30
Seymour	23.8	23.1	38.7	54.8	64.4	75.7	74.8	77.0	71.3	49.7	42.7	34.9	52.6	100	—14	Apr. 15	Sept. 30
Shelbyville	[d]23.4	[d]20.7	38.6	[c]55.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Bend	17.8	17.0	33.9	51.3	61.8	72.2	71.7	73.5	69.8	46.5	38.0	30.9	48.7	97	—14	May 21	Oct. 1
Sunman	19.8	20.7	38.5	54.5	62.6	73.6	73.3	75.5	69.1	46.7	39.8	32.9	50.6	98	—18	May 14	Sept. 30
Terre Haute	23.5	23.4	41.8	57.2	66.0	77.5	75.0	76.7	72.6	51.8	43.1	35.8	53.7	101	—17	May 14	Oct. 1
Topeka	.....	.....	32.5	51.9	62.1	74.7	76.6	.....	70.7	46.0	.....	.....	.....	.....	.....	May 11	Oct. 1
Valparaiso	15.7	15.2	33.7	50.9	61.2	71.8	71.8	73.7	68.8	45.2	36.4	28.7	47.8	98	—18	May 26	Oct. 1
Vevay	28.3	23.9	42.2	58.0	65.1	77.4	76.3	78.3	73.4	50.2	43.8	38.8	54.6	98	—20	May 14	Sept. 30
Vincennes	25.5	20.5	42.3	58.7	66.0	78.0	75.1	76.5	71.5	47.5	40.5	33.9	53.0	104	—16	May 14†	Sept. 30†
Worthington	24.3	23.0	41.5	54.1	63.5	74.7	72.8	75.6	70.5	48.8	42.7	35.0	52.2	96	—16	May 21	Sept. 30
Indian Territory.																	
Healdton	40.4	34.8	54.9	67.4	71.5	77.4	80.8	84.6	80.2	[c]60.0	49.8	44.5	62.2	104	— 1	Mar. 21	Oct. 20
Kemp	40.2	36.0	54.7	65.8	70.6	.....	.....	.....	80.6	60.4	51.4	43.8	.....	.....	— 2	Mar. 21	Oct. 20
Lehigh	37.6	34.8	52.8	65.6	67.7	75.8	80.1	80.7	79.3	58.6	50.0	43.4	60.5	102	— 4	Apr. 3	Sept. 30
Purcell	36.6	31.8	51.5	65.8	68.2	79.5	81.8	81.8	78.8	58.7	.....	.....	.....	100	— 6	Mar. 21	Oct. 28
Tahlequah	37.3	33.6	52.4	61.8	67.2	.....	.....	[c]77.3	.....	58.4	48.0	41.8	.....	.....	— 9	Mar. 21	Oct. 12
Vinita	.....	.....	.....	.....	.....	74.8	76.2	77.2	74.2	56.8	46.2	38.6	.....	.....	.....	.....	Sept. 29
Wagoner	.....	.....	.....	63.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Iowa.																	
Afton	14.6	13.8	36.6	54.9	63.2	70.4	73.1	73.3	68.6	47.9	35.8	26.0	48.6	98	—21	May 12	Sept. 30
Algona (a)	9.9	15.6	31.2	54.7	60.4	68.6	71.0	70.6	65.1	44.3	32.0	22.5	45.5	96	—24	May 13	Sept. 30
Alta	10.2	15.6	31.0	53.5	60.5	67.5	71.2	71.8	65.7	45.2	31.4	22.8	45.5	98	—25	May 21	Sept. 29
Amana	12.8	15.2	33.6	53.1	61.6	71.5	72.9	72.9	68.0	44.4	34.4	25.4	47.2	100	—21	May 14	Sept. 30
Ames	11.8	15.7	33.8	53.8	61.0	67.6	70.2	72.4	67.5	49.3	32.2	25.0	46.7	96	—27	May 14	Sept. 27
Atlantic	16.1	18.5	33.5	53.2	60.6	68.1	71.0	70.8	67.5	45.3	34.4	25.6	47.0	103	—21	May 22	Sept. 27
Atlantic (near)	16.6	18.2	36.0	55.2	63.2	69.7	73.0	73.5	67.9	48.3	.....	[i]29.8	.....	98	—24	May 12	Sept. 30
Audubon	15.3	18.4	34.9	54.4	61.3	68.4	71.5	72.3	66.7	44.3	35.6	26.5	47.6	96	—22	May 22	Sept. 27
Belknap (near)	.....	18.3	36.2	[c]55.9	62.3	71.0	72.7	74.1	70.8	46.6	36.6	27.7	.....	101	.....	May 24	Sept. 30
Belle Plaine	12.4	14.8	35.2	53.2	62.0	71.3	73.3	73.0	68.8	44.6	33.4	24.4	47.2	104	—22	May 14	Sept. 30
Bonaparte	17.8	17.8	37.4	53.7	62.5	72.4	74.4	75.5	70.9	49.0	37.5	28.6	49.8	101	—20	May 14	Sept. 30
Carroll	12.7	16.4	35.3	53.2	60.6	68.6	71.3	71.5	65.2	42.7	32.2	24.4	46.2	95	—22	May 12	Sept. 30
Cedarfalls	10.9	15.0	33.3	54.2	60.6	69.4	73.3	72.7	67.5	46.1	34.3	24.4	46.8	95	—24	May 14	Sept. 30
Cedar Rapids	14.8	16.8	36.0	53.8	63.0	72.6	74.0	74.6	69.9	45.6	35.4	27.2	48.6	97	—19	May 14	Sept. 30
Centerville	20.0	21.6	39.5	58.9	63.8	.....	74.0	75.9	74.4	50.3	41.3	.....	.....	.....	.....	May 13	Sept. 30
Chariton (a)	.....	19.6	36.9	54.9	63.6	72.4	73.2	74.7	69.7	48.0	37.7	28.8	.....	94	.....	May 20	Sept. 30
Charles City	8.5	11.1	31.9	53.1	59.6	67.6	72.4	70.7	66.0	42.5	30.6	21.0	44.6	95	—26	May 14	Sept. 30
Clarinda	17.6	20.2	36.5	53.9	62.2	68.6	70.2	73.2	68.3	45.6	34.1	25.0	48.0	94	—21	May 12	Sept. 30
Clinton	14.0	13.3	33.8	53.4	62.3	72.9	73.6	74.1	68.6	45.5	35.3	27.5	47.9	99	—21	May 14	Sept. 30
College Springs	22.5	20.6	38.4	55.4	63.8	68.8	71.4	.....	.....	.....	37.8	28.6	.....	.....	.....	May 13	.....
Corning	18.2	20.2	37.6	55.4	62.8	68.2	70.5	72.6	69.2	49.5	36.7	27.9	49.1	95	—20	May 12	Sept. 23
Cresco	6.9	10.0	28.7	51.0	58.2	67.6	69.2	70.2	65.2	42.3	29.7	19.7	43.2	95	—30	May 21	Sept. 30
*Davenport	15.4	15.2	34.6	53.4	62.6	73.1	73.4	75.0	69.1	47.4	36.4	26.8	48.7	96	—20	May 14	Sept. 30
Decorah	7.4	10.8	30.4	51.8	60.0	67.9	69.6	70.8	67.1	42.8	33.7	22.8	44.6	97	—30	May 21	Sept. 30
Delaware (c)	8.8	9.7	29.9	51.3	59.8	69.8	71.3	71.8	65.4	40.3	31.4	23.8	44.5	101	—24	May 22	Sept. 30
Denison	.....	20.6	32.6	55.5	60.0	66.0	70.4	72.2	66.7	45.4	32.2	24.0	.....	99	.....	May 21	Sept. 30
*Des Moines	16.7	19.2	35.9	55.4	62.7	70.5	72.7	73.8	69.4	48.2	36.4	27.2	49.0	98	—18	May 21	Sept. 30
*Dubuque	13.0	15.6	35.5	53.9	62.1	72.7	74.4	74.4	69.8	47.8	35.9	28.0	48.6	98	—21	.....	.....
Eldora	.....	13.8	32.8	[c]52.3	61.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 20	.....
Elkader	9.4	11.0	31.9	52.3	60.7	69.9	71.6	72.6	67.8	44.1	33.1	25.0	45.8	99	—31	May 12	Sept. 30
Emmetsburg	8.8	14.6	31.2	52.8	58.8	66.0	70.9	70.6	64.4	43.6	29.9	20.4	44.3	98	—26	May 21	Sept. 29
Estherville	.....	.....	.....	55.6	[c]62.0	66.7	[c]72.6	73.0	67.4	[c]45.4	29.1	22.4	.....	101	.....	May 21	Sept. 23
Fairfield	16.3	17.6	36.4	52.3	61.5	71.5	72.4	72.6	67.5	46.8	36.3	27.2	48.2	97	—21	May 14	Sept. 30
Fayette	10.0	11.8	32.1	51.5	59.7	68.8	71.5	71.1	66.4	43.8	32.5	23.8	45.2	96	—28	May 21	Sept. 30
Forest City	5.2	9.2	28.9	52.6	.....	.....	72.8	71.0	65.8	42.8	28.5	19.5	.....	.....	—26	.....	Sept. 30
Fort Madison (a)	22.4	21.5	40.0	57.9	66.5	76.6	76.7	75.4	71.1	50.6	39.7	32.9	52.6	95	—21	May 14	Oct. 9
Galva	13.6	16.8	33.7	53.0	62.2	67.4	71.9	72.0	66.3	43.7	32.3	.....	.....	98	.....	May 21	Sept. 29
Gardengrove	.....	18.7	36.4	54.6	62.8	69.8	71.4	71.5	67.4	45.7	34.0	26.2	.....	96	.....	May 21	Sept. 30
Glenwood	18.2	20.5	38.8	58.9	66.2	72.4	74.5	75.3	74.2	50.3	38.4	30.7	51.5	104	—22	May 12	Sept. 30
Grand Meadow (a)	10.0	13.2	30.6	50.4	61.2	66.7	69.3	70.5	66.0	44.0	31.6	22.8	44.7	94	—25	May 21	Sept. 29
Greenfield	16.9	19.0	35.6	55.0	[h]60.2	70.5	73.0	73.4	68.1	47.2	[c]37.4	27.0	48.6	98	—21	May 21	Sept. 23
Grinnell	11.6	16.8	36.0	55.1	62.7	.....	.....	.....	.....	47.2	35.3	26.6	.....	.....	—20	.....	Sept. 30
Grundy Center	10.9	15.2	31.7	53.2	60.5	68.7	71.1	71.2	66.2	44.7	32.9	24.0	45.9	95	—24	May 14	Sept. 30
Guthrie Center	.....	18.7	35.9	54.0	60.2	69.2	71.1	71.3	66.9	44.8	34.5	25.2	.....	98	.....	May 11	Sept. 27

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.																	
Hampton	8.5	11.8	29.7	51.8	59.2	67.3	70.4	70.3	64.8	42.9	30.8	21.1	44.0	94	—27	May 19	Sept. 30
Hopeville	17.0	19.0	36.9	55.2	62.3	69.1	71.3	73.5	68.8	48.6	36.2	26.5	48.7	93	—22	May 12	Sept. 30
Hopkinton	13.3	13.6	33.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Humboldt	.....	.....	.....	54.1	61.5	69.0	74.2	71.5	67.3	45.3	31.7	23.8	.....	98	.....	May 12	Sept. 30
Independence	11.0	12.6	32.1	51.9	59.6	68.3	71.1	72.0	66.2	44.5	33.0	23.8	45.5	101	—25	May 14	Sept. 30
Indianola	17.7	18.9	[c]35.1	55.0	62.5	.....	.....	[c]75.3	69.1	48.2	35.8	26.2	.....	.....	—22	May 15	Sept. 27
Iowa City (*a*) [1]	14.4	16.2	37.5	54.1	62.8	73.2	74.0	73.6	68.6	46.2	35.7	27.2	48.6	100	—23	May 14	Sept. 30
Iowa City (*b*) [2]	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	36.5	27.8	.....	.....	.....	.....	.....
Iowa Falls	9.8	11.2	31.3	51.8	61.0	68.0	69.6	68.7	64.1	41.6	31.2	22.4	44.2	95	—28	May 22	Sept. 30
Jefferson	14.2	45.7	35.9	.....	[k]54.6	66.9	70.8	.....	66.6	.....	.....	.....	.....	.....	.....	May 26	Sept. 30
*Keokuk	19.6	18.8	38.0	55.1	63.6	73.3	73.8	75.7	70.7	50.0	38.6	31.0	50.7	96	—22	Apr. 14	Sept. 30
Keosauqua	18.4	18.4	38.6	54.3	62.7	72.2	74.0	75.4	71.3	50.6	38.1	29.2	50.3	100	—20	May 14	Oct. 9
Knoxville	15.7	17.7	34.2	54.2	62.3	70.8	72.6	74.1	68.8	47.6	35.9	26.3	48.4	97	—20	May 14	Sept. 30
Larrabee	10.7	15.4	32.8	54.5	60.5	67.8	71.9	71.8	66.8	44.9	32.5	24.5	46.2	100	—25	May 21	Sept. 30
Lenox (*a*)	.....	.....	.....	.....	63.7	70.3	72.2	73.4	69.7	48.6	36.6	27.4	.....	96	.....	May 12	Sept. 30
Logan	16.0	21.0	35.1	55.4	63.5	70.0	71.6	71.8	66.6	47.6	35.2	26.8	48.4	100	—22	May 12	Sept. 30
Madrid	.....	.....	.....	53.7	62.1	69.9	72.6	73.9	67.0	44.4	31.9	23.4	.....	96	.....	May 20	Sept. 29
Malvern (*a*)	.....	.....	.....	.....	63.0	68.8	.....	.....	.....	.....	30.6	25.9	.....	.....	.....	May 22	Sept. 27
Marshall	.....	14.4	32.5	52.8	61.2	70.1	[e]71.5	72.9	67.7	43.1	33.1	25.1	.....	96	.....	May 20	Sept. 29
Mason City	9.2	13.1	30.8	50.8	59.0	67.4	70.3	67.7	[e]69.1	.....	.....	.....	.....	95	.....	May 21	Sept. 29
Maxon (*a*)	14.1	20.4	37.3	55.7	63.4	73.7	75.1	74.6	70.8	48.3	36.8	28.8	49.9	100	—20	May 13	Oct. 8
Mechanicsville	13.1	14.0	32.4	52.2	60.5	70.3	71.5	73.0	67.1	45.3	34.5	25.8	46.6	96	—22	May 14	Sept. 30
Monticello (*a*)	11.8	13.1	31.3	53.4	60.7	68.8	70.4	69.4	63.6	40.6	30.5	22.3	44.7	94	—24	May 14	Sept. 30
Moore	9.2	14.1	36.3	54.1	63.2	73.2	75.0	75.6	70.4	47.7	36.8	.....	.....	98	.....	May 14	Oct. 9
Mount Ayr	.....	.....	36.8	55.4	65.0	70.5	72.6	74.0	69.0	49.0	35.8	26.4	.....	97	.....	May 19	Sept. 30
Mount Pleasant (*a*)	16.6	15.2	37.1	55.9	63.3	74.0	76.8	77.2	70.2	49.7	38.2	29.6	50.3	94	.....	.....	.....
Mount Vernon (*a*)	12.0	14.0	33.4	54.3	62.3	72.6	.....	[e]75.3	69.0	45.7	35.0	25.8	.....	.....	—27	.....	Sept. 30
Neola	.....	.....	.....	58.2	65.3	71.5	72.7	74.0	68.8	47.3	35.3	28.5	.....	104	.....	May 20	Sept. 23
Newton	14.6	16.3	35.3	53.9	62.3	70.9	72.4	73.6	68.6	46.4	35.4	26.0	48.0	98	—23	May 14	Sept. 30
Ogden	13.9	17.4	34.6	53.5	61.4	69.2	69.5	73.0	67.8	47.3	34.8	24.6	47.2	97	—24	May 21	Sept. 30
Osage (*c*)	6.2	9.7	26.5	50.0	58.1	66.8	69.4	67.8	62.7	39.2	28.8	20.0	42.1	.....	—28	May 24	Sept. 30
Osceola	15.9	18.8	34.9	53.7	62.7	70.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 12	.....
Oskaloosa	16.7	18.2	36.5	54.2	62.5	71.1	72.7	73.2	68.8	46.4	35.6	26.2	48.5	99	—21	May 14	Sept. 30
Ottumwa	17.8	19.2	37.5	55.0	62.9	72.2	74.0	74.8	70.3	49.2	37.6	28.8	49.9	98	—20	May 14	Sept. 30
Ovid	17.9	19.4	36.5	54.3	61.9	70.0	72.2	74.5	69.2	48.3	36.4	26.4	48.9	98	—19	May 12	Sept. 30
Panama (*b*)	15.6	17.7	35.2	55.5	62.8	69.5	70.7	73.0	67.2	42.4	31.2	23.2	47.0	97	—22	May 21	Sept. 30
Portsmouth	.....	.....	.....	.....	.....	.....	.....	72.0	67.2	46.8	36.6	28.2	.....	.....	.....	.....	Sept. 22
Primghar	.....	.....	.....	55.9	59.5	67.3	70.9	72.0	65.2	45.4	31.4	22.8	.....	100	.....	May 26	Sept. 23
Rock Rapids	6.2	12.4	28.2	54.8	58.4	65.5	71.2	70.4	65.1	47.1	29.9	18.4	44.0	104	—31	May 26	Sept. 7
Sac City	11.4	16.4	30.6	53.0	62.4	68.0	72.0	69.2	66.3	44.8	32.2	23.8	45.8	97	—22	May 12	Sept. 30
Seymour	18.7	21.1	39.5	55.5	62.6	70.2	72.3	75.2	71.1	49.1	38.0	28.2	50.1	100	—20	May 12	Sept. 29
Sibley	8.5	12.0	30.7	54.0	58.8	65.0	[e]68.8	.....	.....	.....	.....	.....	.....	.....	.....	May 27	Sept. 23
Sidney	.....	.....	45.0	57.9	64.1	70.2	73.6	74.8	72.3	.....	40.9	29.0	.....	104	.....	May 21	Sept. 30
*Sioux City	14.2	19.0	33.9	56.6	62.0	68.2	72.4	72.8	67.8	47.4	33.2	26.2	47.8	103	—23	May 21	Sept. 27
Spencer	.....	15.2	31.7	56.8	58.4	66.5	.....	69.8	65.2	.....	.....	.....	.....	.....	.....	May 26	Sept. 23
Spirit Lake	7.3	.....	35.8	55.2	61.8	67.6	73.4	74.0	68.2	45.0	28.8	21.0	.....	101	.....	May 13	Sept. 30
Sutherland	.....	14.8	30.4	53.8	.....	66.7	70.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Toledo (*a*)	12.9	16.9	32.4	55.2	61.6	70.8	73.7	73.9	68.2	45.1	33.4	23.8	47.3	100	—23	May 12	Sept. 30
Villisca	17.2	20.3	36.1	55.0	61.9	69.4	70.6	71.0	67.8	45.8	34.9	25.8	48.0	95	—20	May 22	Sept. 27
Vinton (*a*)	12.1	14.1	33.5	52.8	60.6	70.0	72.3	72.7	67.6	44.5	34.4	25.7	46.7	102	—22	May 22	Sept. 30
Washington	15.2	16.0	34.9	53.3	62.2	71.5	72.5	73.8	68.6	47.1	36.2	26.8	48.2	98	—22	May 22	Sept. 30
Waterloo	.....	11.8	32.0	52.8	61.8	71.4	73.1	72.6	66.7	45.2	34.4	25.0	.....	100	.....	May 14	Sept. 30
Wankee	18.4	20.4	37.9	56.4	63.6	71.0	73.2	74.0	[d]67.3	49.0	38.0	.....	.....	.....	—20	May 12	Sept. 30
West Bend (*a*)	.....	.....	28.9	52.4	59.8	67.1	71.1	68.4	63.6	42.5	30.4	20.8	.....	96	.....	May 21	Sept. 30
Williams	9.0	13.4	32.2	53.2	60.2	67.0	69.5	68.7	65.4	44.7	32.6	.....	.....	94	—24	May 21	Sept. 29
Wilton Junction	14.1	13.7	34.5	53.2	61.9	72.6	73.1	73.0	67.4	45.4	[e]36.1	28.2	47.8	100	—22	May 14	Sept. 30
Winterset	15.5	17.7	34.7	55.1	63.4	69.7	71.5	72.5	68.2	46.0	34.6	25.4	47.9	98	—21	May 21	Sept. 30
Kansas.																	
Abilene	25.0	28.1	45.3	60.2	68.5	75.0	78.1	77.3	75.4	53.0	41.4	32.4	55.0	106	—14	Apr. 2	Sept. 30
Achilles (*c*)	18.7	.....	32.6	52.4	[d]61.9	[e]67.4	69.7	71.9	[e]63.2	50.0	[d]26.4	[e]24.2	.....	107	.....	May 13	Sept. 29
Allison	20.8	20.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Altoona (*c*)	24.4	23.7	41.4	58.2	66.2	73.6	76.6	75.2	70.0	48.0	39.2	30.9	52.3	99	—10	Mar. 21	Sept. 29
Atchison	22.6	23.8	40.8	58.2	65.0	72.1	73.6	74.4	71.7	52.0	40.0	30.6	52.1	98	—16	Apr. 2	Sept. 30
Baker	.....	.....	.....	.....	.....	.....	.....	.....	.....	51.4	40.0	30.4	.....	.....	.....	.....	.....
Beloit	33.8	33.3	45.8	62.4	70.1	74.8	75.2	74.9	71.1	50.0	38.2	30.3	55.0	106	—20	May 11	Sept. 29
Blaine	20.6	20.2	36.0	54.7	66.0	73.7	76.4	75.6	72.0	51.5	39.3	30.7	51.4	102	—20	May 12	Sept. 30
Burlington	22.4	23.8	43.0	59.3	65.4	72.9	75.4	75.3	73.6	51.8	41.0	32.8	53.1	102	—13	Apr. 3	Sept. 29
Campbell	.....	.....	.....	.....	.....	.....	[d]77.0	76.5	72.6	52.7	38.6	29.8	.....	.....	.....	.....	Sept. 29
Colby	23.6	22.4	38.2	54.2	60.9	67.6	70.5	72.2	68.2	48.8	37.2	29.6	49.4	101	—20	May 11	Sept. 29
Coldwater	27.1	25.7	44.4	60.5	67.8	75.1	76.4	77.1	73.4	52.9	41.3	34.0	54.6	105	—14	Apr. 6	Sept. 29
Collyer (*e*)	22.4	27.3	36.2	60.2	69.3	73.2	76.3	77.7	73.8	53.2	39.2	33.2	53.5	105	—12	May 13	Sept. 23
Columbus	27.2	25.0	43.6	58.7	66.0	74.8	76.1	76.1	71.7	52.4	42.4	34.8	54.1	96	—17	Apr. 3	Oct. 20
*Concordia	23.5	24.8	41.4	59.4	66.2	72.2	76.2	76.0	73.4	52.4	40.5	33.3	53.8	104	—17	May 12	Sept. 29
Coolidge	26.4	25.1	40.6	54.3	63.4	69.4	72.6	73.5	69.9	52.4	37.3	28.8	51.1	101	—14	Apr. 23	Sept. 23
Cunningham	26.4	26.2	43.8	60.1	66.0	74.4	76.7	77.6	74.3	53.6	42.8	33.8	54.8	106	—13	May 12	Sept. 23
*Dodge City	26.9	25.4	42.9	57.0	64.8	70.0	74.0	75.6	72.7	52.8	41.4	33.8	53.1	100	—14	Apr. 2	Sept. 23
Dresden (*a*)	.....	.....	36.8	55.5	66.1	68.6	71.6	73.0	70.8	50.6	37.9	32.8	.....	105	.....	May 10	Oct. 24
Eldorado	26.6	.....	46.6	.....	.....	.....	.....	.....	.....	.....	41.7	33.0	.....	.....	.....	.....	.....
Elk City (*a*)	29.0	28.0	46.4	60.6	67.4	74.9	76.6	76.7	73.9	53.7	43.6	35.2	55.5	100	—10	Apr. 18	Sept. 30
Ellinwood (*e*)	24.2	22.8	38.2	54.4	62.6	61.8	71.9	77.5	68.1	52.0	38.4	30.0	50.2	99	—14	May 12	Sept. 30
Emporia	27.2	27.5	44.0	59.9	66.3	74.8	75.8	76.4	71.6	52.5	42.9	34.4	54.4	100	—10	Mar. 21	Sept. 30
Englewood	28.2	25.6	43.2	59.3	65.4	73.2	76.4	77.0	70.4	53.0	43.2	34.8	54.1	108	—11	Apr. 5	Sept. 23
Eureka Ranch	24.0	23.0	40.5	56.6	63.4	70.4	74.0	75.4	71.9	50.6	38.7	31.6	51.7	106	—17	May 12	Sept. 29
Fort Riley	23.8	24.7	44.3	60.0	66.3	72.6	.....	.....	74.6	54.0	42.4	34.4	.....	.....	—16	May 23	Sept. 30
Frankfort	24.4	25.9	43.2	61.6	70.2	76.4	78.9	79.2	76.6	55.7	43.2	34.6	55.7	105	—16	Apr. 2	Sept. 29
Garden City	26.4	25.0	41.2	56.2	64.1	70.4	73.0	75.2	71.3	51.8	39.1	.....	.....	.....	.....	May 16	Sept. 29
Gibson (*a*)	21.9	22.1	34.8	58.9	60.5	66.4	70.3	72.1	70.6	48.2	37.0	.....	.....	.....	.....	May 12	Sept. 23
Girard (*a*)	25.7	23.7	44.0	60.2	67.3	75.4	76.5	77.5	73.8	53.4	42.8	33.2	54.5	99	—12	Apr. 2	Oct. 20

[1] A. L. Arner. [2] Mrs. C. M. Hobby.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Kansas—Continued.																	
Goodland							69.3	72.9	68.7	50.2	38.2	31.4					Sept. 29
Gove (*a*)	24.1	23.4	39.9	55.2	64.4	69.5	72.8	74.4	72.1	51.2	37.7	30.8	51.3	106	—16	May 11	Sept. 22
Grainfield (*f*)	28.0	24.8	38.0	54.1	62.0	65.4	71.6	76.0	75.7	57.4		38.4		112		May 11	Sept. 30
Grenola (*a*)	29.2	27.1	44.8	58.9	66.9	75.0	77.4	76.2	72.5	51.4	42.2	34.4	54.7	100	—12	Mar. 21	Sept. 30
Grinnell	22.0	27.2	35.7	62.1	72.9	77.0	75.6	82.4	79.1					108			
Halstead	25.0	26.8	41.5	57.3	63.9	71.0	72.9	[d]75.2		51.6	39.2	30.4			— 5	May 12	
Haviland				58.8	67.1	73.6	75.6										
Hays City	[d]20.2	21.6	41.9	54.2	62.7	69.6	72.0	72.6	70.9	51.2	37.4	30.4	50.4	104	—24	May 12	Sept. 29
Horton	22.3	24.3	40.8	59.1	66.0	72.2	75.0	74.7	71.2	51.8	40.5	30.6	52.4	98	—15	Apr. 2	Sept. 30
Hutchinson	28.8	26.0	45.2	60.3	66.7	73.4	73.8	77.5	75.0	56.2	44.2	37.8	55.4	102	—14	May 12	Sept. 30
Independence	28.7	26.8	46.5	61.8	68.7	77.5	78.7	78.6	75.0	55.2	43.7	34.9	56.2	108	—10	May 12	Sept. 29
Ionia	22.4	21.8	40.6	59.0	65.0	70.9	74.0	73.6	73.6	[c]50.5	37.9	31.4	51.8	101	—17	May 12	Sept. 23
Jaqua	25.2	23.5	39.6	55.2	61.3	66.8	69.1			48.7	36.4	30.0			—23	May 11	Sept. 29
Johnson	28.8	26.0	42.8	55.8	64.2	71.0	73.3									May 11	
Kiowa	29.4	27.3	47.2														
Lakin		22.5	43.6	[e]61.2	67.3												
Lawrence (*a*)	25.4	26.0	43.1	60.6	66.2	74.0	74.0	74.2	71.2	51.9	41.6	32.2	53.4	96	—14		Oct. 8
Lebo	25.6	26.0	43.7	61.3	67.3	74.4	75.6	76.6	72.6	53.7	43.0	32.5	54.4	104	—14	May 12	Sept. 30
Leoti	25.2				65.4	74.8	73.8										
Macksville	24.4	24.8	40.9	59.0	66.8	73.1	76.0	77.2	73.8	54.9	41.3	33.4	53.8	105	—14	May 12	Sept. 30
McPherson	23.4	24.2	43.1	59.6	66.7	72.3	75.1	75.6	71.6	53.6	41.0	33.6	53.3	99	—17	May 12	Sept. 23
Manhattan [1]	23.7	25.8	43.0	60.7	68.4	74.2	77.8	77.3	75.0	53.6	41.8	33.0	54.5	105	—15	May 12	Sept. 30
Manhattan [2]	22.0	24.8	39.8	55.3	62.1	65.6	72.6	73.7	69.9					110	—11	May 12	Sept. 23
Marion		24.6	43.9	60.7	67.7			78.4	75.4	53.0	42.8	33.4			—17	May 12	Sept. 30
Meade				61.3	69.0	74.0	77.6	81.3	76.7	56.3	44.0	37.2		107		Apr. 6	Sept. 23
Medicine Lodge						73.0	74.8	77.0	72.9	52.5	[d]40.8	34.0					Oct. 20
Minneapolis	23.0	24.2	42.0	59.6	66.8	73.4	76.3	76.8	73.8	51.5	41.1	32.9	53.4	104	—16	May 17	Sept. 29
Morland	24.6	24.1	39.8	57.0	62.6	68.3	70.6	73.6	70.6	50.4	39.4	31.0	51.0	107	—20	May 11	Sept. 23
Morton	30.0	27.1	43.4	57.2	65.6	71.4	75.2	75.4	71.8	52.9	40.6	33.5	53.7	105	—10	May 11	Sept. 23
Mount Hope (*a*)	29.1	27.8	45.6	62.9	68.0	74.9	76.6	77.0	75.5	55.0	44.9	35.9	56.1	101	—13		
Ness City		[g]23.2		60.0	69.2	73.6	76.7	79.3	77.2					103		May 11	Sept. 23
New England Ranch	22.5	20.4	41.6	56.8	63.1	69.0	73.4	72.2	70.2	50.1	41.4	33.9	51.2	103	—25	May 10	Sept. 22
Norton			41.2	[f]55.5	[c]62.6	69.4	69.9	72.8	69.8					102		May 12	Sept. 23
Norwich								79.0	76.3	58.1							
Olathe	24.0	25.5	42.4	60.2	[a]64.2	73.1	74.7	75.1	71.8		42.3	32.5		99	—15	May 17	Sept. 30
Oswego	26.7	25.5	48.0	61.2	68.8	76.4	77.0	77.6	74.2	[f]56.2	45.8	37.0	56.2	100	—20		Sept. 30
Ottawa						73.6	76.9	75.8	73.3	[c]52.6	42.8	33.6		97			Sept. 30
Paola								77.7	75.4	55.0	42.2	36.2					Sept. 30
Phillipsburg	21.0	16.7	36.0	58.0	63.1	68.3	74.6	76.2	72.8	51.0	[d]38.4	35.4	51.0	110	—20	May 19	Sept. 23
Pleasant Dale	23.6	24.0	41.8	57.7	64.6	70.4	75.6	76.5	73.4	52.6	41.0	33.2	52.9	106	—15	May 12	Sept. 23
Quinter (*a*)	23.6	22.3	44.5	59.9	67.5	72.7	73.7	76.8	72.4								
Rome (*a*)	30.0	28.5	46.1	61.0	68.1	75.3	76.6	76.3	74.8	53.8	43.1	35.4	55.8	101	—11		Sept. 23
Russell							77.1	74.3	73.8	52.4	41.2	34.0					Sept. 23
Salina	20.8	24.4	40.2	54.9	65.4			77.9	74.1	51.6	41.1	34.2			—15	May 11	Sept. 29
Scott							74.2	75.2									
Sedan	29.4	27.8	47.2	63.0	68.4	76.6	78.2	78.1	75.5	55.6	46.4	36.6	56.9	104	—12		Oct. 20
Sharon Springs (*a*)	29.0	27.2	42.2	55.8	60.9	66.2	69.3	73.8	72.8	55.0	38.2	31.7	51.8	106	—11		Sept. 22
*Topeka	25.5	26.5	43.9	60.3	66.6	73.3	75.0	75.8	73.1	53.8	42.8	33.4	54.2	99	—14	May 17	Sept. 30
Tribune	*24.8	21.3	[c]39.0	[f]57.9	[i]63.0	[h]67.2		[d]73.8	69.0	[f]52.6						May 13	Sept. 23
Ulysses		24.2	[d]39.8	[j]55.3	[g]64.0	67.8											
Wakeeney		26.8		55.8		70.9											
Wakefield (*a*)	25.4	26.8	42.6	61.8	68.8	75.0	77.8	77.2	75.4	53.6	43.1	34.7	55.2	108	—13	Apr. 2	Sept. 30
Wallace (*a*)						72.4	76.4	78.5	72.9	54.8	37.7	28.8		102			Sept. 29
Wamego (*a*)	22.6	24.8	41.4	58.8	66.9	73.6	76.4	75.3	73.2	50.9	40.1	32.2	53.0	100	—15	May 17	Sept. 30
Wellington (*a*)	31.3	31.5	48.6	63.6	72.6					60.3	45.6	38.0			—13		Oct. 29
*Wichita	27.8	27.0	45.3	61.1	67.4	74.5	76.6	77.1	75.2	54.8	43.4	35.4	55.5	101	—13	May 12	Sept. 23
Winfield (*e*)	28.2	27.4	44.8	60.4	69.2		80.8	81.5		53.2	42.0	34.4			—12	Apr. 9	Sept. 30
Winona (*e*)	21.5	23.6	37.2	49.7	66.7	71.8	76.4	80.5	77.3	59.6	42.3	30.6	53.1	107	—14		
Yates Center	25.0	24.8	43.2	60.4	65.6	74.0			71.2	51.8	41.9	33.0			—13	Apr. 9	Sept. 23
Kentucky.																	
Alpha	34.6	28.4	48.2	59.3	63.3	76.0	75.0	76.9	75.4	55.4	49.7	42.4	57.0	98	—10	May 22	Sept. 30
Anchorage				58.4	64.3				71.8	52.0	45.3					May 14	Sept. 30
Blandville	30.3	27.4	45.6	58.9	64.3	75.7	74.7	77.0	74.3	53.0	45.5	37.8	55.4	95	—11	May 14	Oct. 1
Bowling Green (*a*) [3]	30.1	26.5	43.9	55.7	61.1	72.8	72.8	73.7	71.0	49.1	43.8	37.9	53.2	95	—11	May 14	Oct. 1
Bowling Green [4]	32.6	29.0	46.8	59.4	66.9	78.1	77.0	78.1	74.4	53.6	47.3	39.6	56.9	98	— 7	May 14	Oct. 1
Caddo (*a*)	29.8	24.8	42.0	56.2	62.6	77.0	77.0	77.7	75.8	47.3	43.3	33.2	53.9	100	—18	May 17	Oct. 1
Canton (*a*)	33.2	30.1	48.0	59.4	66.2	76.2	76.3	76.8	75.4	55.4	47.2	40.7	57.1	97	— 8	Mar. 21	Sept. 30
Carrollton		25.1	42.0	56.2	64.8	77.5	75.5	77.4	73.5	50.0	44.4	38.3		104	—13	Apr. 15	Sept. 30
Custer								76.0	72.0	52.2	47.0						Oct. 8
Earlington	31.4	25.6	[d]44.4	56.0				74.4	73.6	53.7	46.9	39.6			— 9	Apr. 4	Oct. 10
Edmonton	31.8	26.0	45.4	56.8	62.4	74.0	73.8	72.6	71.9	51.4	46.9	39.8	54.4	93	—10	Apr. 4	Oct. 10
Elizabethtown		27.6	45.8	58.0	62.5	73.4	73.8	76.1	72.2					97		May 14	Sept. 29
Eubank	29.3	24.4	44.4	56.0	62.4	73.8	74.0	75.4								May 15	
Fords Ferry	30.6	26.7	47.0	60.0	67.2	78.9	77.5	78.3	75.9	52.7	45.4	40.4	56.6	104	—10	May 14	Oct. 1
Frankfort				57.8	64.2	77.0	75.3	76.8	73.0	50.2	46.6	40.0		98		May 17	Sept. 30
Franklin (*a*)	34.7	29.1	47.7	60.1	65.5	77.2	79.4	77.9	76.5	55.9	48.4	40.4	57.7	98	—11	May 18	Oct. 8
Georgetown	28.2	23.0	43.4	55.8	62.9	75.4	[h]73.5	75.9	72.2	50.8	46.5	39.7	53.9	96	—16		Oct. 8
Greendale (*a*)	27.3	22.4		55.1	63.2	75.2	73.1	76.1	73.3	50.9	44.6	37.4		94	—12	May 22	Sept. 30
Greensburg (*a*)	31.1	25.0	44.7	56.2	62.7	75.2	73.1	74.2	71.7	49.3	45.2	38.9	53.9	94	—12	May 14	Sept. 30
Harrodsburg				55.3	63.5											May 22	
Harrods Creek			43.9	58.3	65.0	77.0	75.4	77.6	74.2	53.0		38.2		100		Mar. 26	Oct. 9
Henderson	30.9	29.0	47.0	60.6	67.2	77.4	76.3	78.2	75.5	54.6	47.6	41.6	57.2	99	— 8	Mar. 22	Oct. 20
Herbert	30.2	24.8	44.2	57.8	66.4	*77.8										Mar. 14	
Leitchfield											45.3	37.4					Oct. 20

[1] Prof. E. B. Nichols. [2] C. P. Blachly. [3] J. E. Youngkove. [4] M. H. Crump.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations	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.																	
*Lexington	27.7	23.4	42.7	55.8	62.3	75.4	73.4	75.8	72.8	52.3	45.0	37.4	53.7	95	—13	Mar. 21	Oct. 9
Lola								76.0	73.4		46.4	38.2					Sept. 29
Louisa		24.4	42.4	55.0	64.8	77.4	74.2	75.6	70.8	48.6	45.0	37.4		99	— 6	Apr. 15	Sept. 29
*Louisville	29.2	26.6	44.0	58.1	65.4	77.2	75.6	77.6	74.0	53.1	45.7	39.0	55.5	100	—10	May 14	Sept. 30
Marrowbone	33.4	27.2	45.4	57.1	63.8	78.4	76.6	76.2	73.2	51.6	46.8	39.1	55.7	96	—18	May 22	Sept. 30
Matlock (a)	29.9	24.3	47.0				[1]77.7									Mar. 20	
Middlesboro			[e]44.4	[e]57.4	60.5	[1]71.5										Mar. 23	
Mount Sterling	27.4	21.8	42.5	55.0	62.1	74.0	72.4	73.8	69.7	49.2	44.0	37.2	52.4	94	—13	May 15	Oct. 1
Owenton											44.7	37.2					
Paducah	31.5	29.7	47.8	61.4	68.0	79.6	78.8	80.2	77.0	55.8	47.8	41.2	58.2	101	— 8	Mar. 21	Sept. 30
Pleasure Ridge Park	28.2	25.0	43.2	56.6	63.7	74.4	73.3	75.4	71.7	49.4	43.4	37.6	53.5	96	—15	May 14	Sept. 30
Princeton	27.7	25.0	45.2	57.4	62.4	[e]75.4	75.4	[e]76.8	72.5	50.6	44.6	[e]34.6	54.0	99	—14	Apr. 3	Sept. 30
Pryorsburg						78.0	77.9	80.0									
Richmond	28.0	24.6	47.3	58.6						54.9	47.9	38.6			—15	Apr. 3	Sept. 29
Russellville	32.8	30.4	47.8	59.0	65.8	77.6	76.4	77.6	76.0	55.8	48.0	40.4	57.3	96	— 9	May 14	Sept. 30
Sandyhook	32.6	23.8		55.5	64.0	74.2	75.2	75.4	71.6	50.0	46.1	41.3		99	—11	May 15	Sept. 30
Shelby City	30.1	24.8	42.9	54.9	61.7	74.0	72.3	74.9	73.4	53.1		39.5		96	—13	Apr. 15	Sept. 30
Shelbyville	32.3	23.5	43.2	56.7	64.7	76.0	74.4	77.0	73.8	50.5	44.4	37.5	54.5	101	—12	May 22	Sept. 30
Southfork (b)	30.1	22.1	41.9	53.7	60.6	72.6	71.4	72.9	68.8	44.3	41.4	37.2	51.4				
Springfield	39.2	24.4	45.4	55.4	62.0	73.6	73.6	73.8		[e]51.6	45.8	38.0			—11	May 13	Oct. 9
Louisiana.																	
Abbeville	52.1	44.2	62.2	66.5	73.2	78.8	80.8	80.4	79.8	66.0	60.8	53.6	66.5	94	12	Mar. 3	Nov. 12
*Alexandria	52.0	43.4	59.6	65.4	71.6	78.7	81.1	80.1	78.3	62.4	55.9	50.6	64.9	97	9	Mar. 5	Nov. 12
*Amite	50.2	44.5	62.0	66.4	73.0	79.4	82.0	81.4	80.7	64.1	58.2	50.6	66.0	99	10	Mar. 5	Nov. 12
Ashwood							82.0	80.7	78.9	61.4	56.4						Nov. 10
Bastrop	45.0	37.2	57.4	64.8	69.2	77.2	[e]80.4	79.9	79.0	60.9	[e]54.1	50.8	63.0	96	4	Mar. 17	Nov. 11
*Baton Rouge	51.2	[e]42.9	61.6	67.2	74.1	79.9	83.0	81.6	80.7	65.6	58.9	51.8	66.5	98	11		Nov. 12
Calhoun	42.6	37.4	56.0	64.0	70.6	78.3	81.7	80.2	77.4	60.4	53.6	48.1	62.5	99	3	Mar. 17	Nov. 11
Cameron	52.4	41.7		66.2	73.0		84.0	83.0	83.1	68.3	59.0				13	Feb. 9	
*Cheneyville			[e]60.2	66.8	72.1	78.9	81.8	81.4	79.8	61.2	53.7	50.0		98		Mar. 5	Nov 12
Clinton	49.8	43.3	61.0	[e]66.3		80.4	82.0	81.8	79.8	63.9	[e]55.8			98	10	Mar. 5	Nov. 2
*Coushatta	46.2	40.2	59.0	65.2	70.3	78.6	81.8	81.7	79.3	60.6	55.2	48.4	63.9	98	5	Mar. 17	Nov. 11
*Covington	48.6	40.6	60.2	66.4	73.4	79.0	81.2	81.0	80.9	64.4	56.2	47.9	65.0	97	10	Mar. 3	Nov. 10
Davis	43.7	37.2	55.0	[e]64.0	68.1	77.2	79.4	78.9	76.4	58.8	52.5			96	4	Mar. 21	Oct. 10
*Donaldsonville	51.6	44.8	62.8	67.5	74.4	80.2	81.8	82.0	81.0	67.4	60.6	53.0	67.3	97	13	Mar. 21	Nov. 12
Elm Hall									79.4	64.2	57.6	51.2					
Emilie	50.6	45.0	60.4	66.0	73.5	79.3	81.8	81.2	79.6	65.8	59.2	51.2	66.1	96	11	Mar. 3	Nov. 27
Farmerville	43.7	38.0	55.2	[e]63.6	[e]69.6	78.0	81.4	80.4	77.6	59.9	52.6	47.3	62.3	96	6	Apr. 3	Nov. 10
*Franklin	53.2	44.3	62.8	67.0	74.9	79.7	81.8	82.0	80.2	65.6	59.8	53.6	67.1	97	13	Mar. 3	Nov. 27
Grand Coteau	52.5	44.6	62.8	67.5	73.4	79.2	81.0	81.2	80.0	64.3	58.6	53.0	66.5	94	12	Feb. 20	Nov. 12
Hammond		44.2	61.8	66.6	75.2	79.9	81.5	80.4	80.2	65.7	56.4	50.1		97	10	Mar. 5	Nov. 12
Houma	56.8			68.4	76.0	82.6	82.2		80.6	66.2	59.6	[b]50.8					Nov. 27
Jeanerette	54.0	45.2	62.6	66.8	74.6	80.4	[e]81.0		[e]81.4	[e]66.6		52.2		98	4	Feb. 20	
*Lafayette	51.6	43.6	61.9	68.4	75.1	80.2	82.6	82.0	80.8	64.6	58.8	51.7	66.8	98	12	Feb. 20	Nov. 12
*Lake Charles	57.2	45.7	62.9	68.0	73.6	79.8	82.7	82.1	80.7	66.0	58.6	49.8	67.3	98	12	Feb. 20	Nov. 27
Lake Providence		40.7	[e]57.0	67.4	71.6	79.5	81.9	81.4	81.2	62.8				98	5	Mar. 21	Nov. 12
Lawrence	51.2	44.6	62.6	67.4	74.6	81.8	84.8	83.2	81.0	69.0	59.2	52.6	67.7	100	17	Feb. 20	Dec. 3
Liberty Hill	45.1	39.1	58.4	66.4	70.9	79.2	80.5	83.3	80.8	62.6	56.8	50.2	64.4	102	4	Apr. 3	Nov. 11
Maurepas	50.2	43.0	62.7	67.0	74.6	80.4	83.2	82.1	80.8	65.2	56.6	50.8	66.4	100	10	Mar. 5	Nov. 12
*Melville	49.0	42.8	60.2	66.8	73.1	80.8	81.4	81.6	80.1	63.8	58.6	52.2	65.9	97	11	Mar. 5	Oct. 10
*Minden					71.1	79.4	82.2	83.4	[e]83.2	62.1				101			
*Monroe	46.2	39.8	58.6	67.2	72.6	80.6	83.0	81.9	79.9	61.2	55.2	49.9	64.7	98	4	Mar. 21	Oct. 10
*Natchitoches	45.8	40.8	58.9	65.9	71.0	78.8	81.6	81.2	78.8	61.6				97	4	Mar. 3	
New Iberia	52.6	43.4	61.9	66.0	74.0	80.7	81.5	[e]81.6	[e]78.4	64.9	59.6	53.7	66.5	95	11	Feb. 21	Dec. 3
*New Orleans	52.2	45.0	62.2	67.8	73.9	80.4	81.9	81.6	81.7	68.6	60.5	53.8	67.5	94	16	Feb. 17†	(1)
Oak Ridge						[f]81.1	82.6	82.4	[e]82.0	60.2	53.8	46.8		103			Oct. 10
Oberlin		45.1	60.6	64.9	69.6	79.2	81.5	81.4	78.0	62.6	60.2			97	10	Mar. 5	Nov. 12
*Opelousas	52.4	44.1	60.4	66.0	73.8	79.9	81.9	82.2	81.0	64.3	58.0	51.6	66.3	97	9	Feb. 21	Nov. 12
Oxford	45.3	38.8	57.0	62.4	68.2	76.5	79.2	79.0	77.0	60.2	53.6	49.1	62.2	97	4	Apr. 3	Nov. 2
Paincourtville		44.2	63.1	67.0	75.1	80.5	81.7	80.7	80.0	65.8	59.7	52.2		98	12	Mar. 3	Nov. 12
Plain Dealing	41.6	39.2	55.8	63.4	69.4		80.7	81.2	79.0	59.8	55.3	46.8			1		Nov. 11
*Port Eads	58.0	49.0	60.4	66.1	73.6	80.6	82.7	80.7	81.6	72.8	62.4	58.4	68.9	91	18	Feb. 17	None.
*Rayne	54.2	43.8	62.4	67.4	74.8	80.5	82.3	82.8	81.4	65.4	60.0	52.8	67.3	99	12	Feb. 21	Nov. 27
Ruston										63.7	54.6	48.4					Nov. 12
*Schriever	54.4		64.2	67.5	75.3	80.6	82.2	82.6	81.0	66.2	58.0	52.3		98		Mar. 4	Nov. 12
Shellbeach	52.8	44.0	64.9	68.0	74.0	80.4	83.4	82.2	80.2	66.0	59.9	51.3	67.3	97	12	Feb. 19	Nov. 20
*Shreveport	44.4	39.6	58.0	65.6	70.2	78.6	81.4	82.2	79.2	62.4	54.5	49.3	63.8	98	4	Mar. 17	Nov. 11
Southern University	53.0	43.8	60.4	66.2	72.3	78.2	80.7	80.1	79.7	66.0	60.0	53.4	66.2	94	15	Mar. 3	Dec. 3
Sugar Exp. Station	50.8	44.0	61.2	67.0	74.4	81.3	83.5	82.0	80.4	66.8	58.6	51.2	66.8				
Sugartown	49.3	41.8	59.5	65.2	72.1	78.4	80.6	81.1	80.2	65.1	58.0	51.6	65.2	95	7	Mar. 2	Nov. 27
Toledo										69.4							Nov. 12
Trinity										63.0	58.9	52.7					Nov. 12
Wallace	52.0	44.6	62.0	66.6	74.2	80.2	81.6	81.3	79.9	67.0	60.0	52.4	66.8	96	12	Mar. 3	Dec. 3
White Sulphur Springs									78.0			50.2					Nov. 3
Maine.																	
Bar Harbor					54.6	61.4	64.2	65.6	60.2	45.2	39.4	29.4		96		May 2	Sept. 31
Belfast (f)	21.0	19.8	28.3	43.6	55.6	63.1	65.5	65.8	60.2	45.6	37.9	28.1	44.5	87	—13	May 17	Sept. 15
Calais	21.0	20.7	28.3	43.2	55.9	65.0	65.4	65.0	57.7	45.2				88	—10	May 17	Oct. 9
Cornish (a)	20.0	18.1	28.2	43.0	57.8	67.0	66.8	66.1	60.5	42.8	36.6	28.6					Sept. 14
Easton	17.0	16.2		39.8													
*Eastport	24.4	21.0	28.4	40.4	48.3	55.5	59.4	61.6	56.3	44.7	39.8	29.8	42.5	85	—10	Apr. 29	Oct. 18
Fairfield	18.4	16.6	27.7	43.4	57.8	66.6	66.4	65.2	59.3	43.8	37.5	25.5	44.0	91	—22	May 17	Sept. 16
Farmington	17.0	14.8	27.2	43.8	59.3	69.8	69.8	67.4	62.0	42.7	37.0	25.0	44.6	100	—17	May 14	Sept. 14
Flagstaff								61.9	[e]56.2		34.8	21.0					
Gardiner	18.2	16.1	28.6	44.5	58.0	67.4	69.3	67.2	61.8	44.8	39.9	27.2	45.2	95	—25	May 14	Sept. 29

[1] No occurrence probably.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
Maine—Continued.																	
Houlton	11.9	12.6	21.9	39.9	57.4	66.0	66.6	63.6	56.6	40.0	34.1	20.4	40.9	97	—26	May 1	Sept. 15
Indian Stream	12.8	13.0	21.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kineo	13.8	14.1	20.8	37.5	53.9	66.4	64.8	[c]63.0	.....	42.1	35.0	22.9	.....	.....	—18	May 2	Oct. 10
Lewiston	20.6	16.3	27.2	43.4	57.4	67.6	68.0	67.4	62.2	44.0	37.9	27.2	44.9	96	—20	May 2	Oct. 10
Madison	18.0	17.3	27.4	44.6	58.6	67.9	67.9	66.6	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mayfield	.....	.....	.....	40.5	56.0	65.3	64.7	62.9	57.0	39.9	33.8	23.6	.....	93	.....	May 14	Sept. 29
North Bridgton	17.4	15.7	26.8	42.8	57.5	66.0	67.7	66.8	60.9	44.6	38.3	25.9	44.2	93	—24	May 17	Sept. 15
Orono	.....	17.0	26.1	41.2	58.1	66.7	65.1	66.4	57.8	42.5	.....	.....	.....	92	.....	May 2	Sept. 29
Petit Menan (*a*)	25.9	23.5	29.8	39.8	46.2	55.4	61.1	60.9	57.9	46.6	39.5	29.7	43.0	75	— 5	.....	.....
*Portland	22.0	19.7	29.4	42.5	54.6	63.6	65.8	66.2	61.8	46.2	40.0	30.1	45.2	93	—11	Apr. 29[1]	Oct. 11
West Jonesport (*a*)	23.9	20.9	28.3	38.9	48.1	55.2	60.4	60.7	56.2	44.7	38.5	29.0	42.1	87	—14	.....	Sept. 29
Maryland.																	
Annapolis	30.0	26.6	.....	53.6	61.6	.....	.....	.....	73.0	54.4	46.2	37.4	.....	.....	— 1	May 15	.....
Bachmans Valley (*a*)	26.0	21.9	36.2	49.8	61.9	75.0	72.4	76.2	67.3	47.5	43.4	34.7	51.0	100	— 3	May 22	.....
Belalton	34.3	.....	44.4	58.2	63.8	75.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Baltimore	31.3	26.4	40.6	52.8	62.4	74.2	73.1	77.1	72.3	53.4	47.1	39.2	54.2	97	1	.....	Oct. 10
Boettcherville (*a*)	26.2	22.6	38.2	52.1	62.0	71.7	70.1	71.6	69.8	47.7	43.0	33.6	50.7	100	—10	.....	.....
Burkittsville	[f]26.3	[d]26.0	[k]41.9	52.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cambridge	.....	.....	.....	.....	.....	.....	.....	.....	.....	54.3	50.5	41.5	.....	.....	.....	.....	.....
Charlotte Hall	32.8	25.8	43.2	54.2	62.5	75.2	73.4	78.7	73.8	51.0	46.0	38.0	.....	.....	.....	.....	.....
Cherryfields (*b*)	33.2	25.9	41.8	52.9	62.8	74.2	73.2	76.0	72.2	53.4	46.9	38.3	54.2	.....	.....	.....	.....
Chestertown	30.6	23.8	39.2	51.9	61.4	72.9	72.0	.....	.....	51.4	45.8	38.6	.....	.....	0	.....	.....
Collegepark	[m]29.4	24.9	41.4	51.7	[d]60.5	72.6	71.1	76.2	72.4	52.4	48.5	40.6	53.5	101	— 7	.....	.....
Cumberland[1]	26.0	22.4	37.8	52.0	62.2	72.2	70.3	74.0	70.0	48.8	42.8	33.9	51.0	97	— 3	.....	.....
Cumberland[2]	27.8	28.2	41.8	56.5	67.4	77.2	74.8	77.2	74.0	54.2	49.4	39.6	55.7	.....	— 4	.....	.....
Darlington	28.6	23.7	38.4	50.4	61.8	72.4	70.5	73.8	[d]69.9	49.2	45.2	36.2	51.7	96	— 6	.....	.....
Deerpark	21.4	16.7	33.0	45.0	55.2	66.1	62.3	66.0	64.2	41.2	37.8	29.6	44.9	99	—18	May 23	.....
Denton	33.2	27.6	40.6	54.8	63.6	73.8	71.0	76.8	.....	53.9	.....	.....	.....	.....	.....	Apr. 18	.....
Easton	35.2	28.9	42.8	53.7	62.2	72.6	72.0	76.0	71.6	51.8	47.2	39.6	54.5	95	2	Apr. 12	.....
Ellicott City	.....	.....	.....	53.8	62.7	74.2	72.8	77.6	73.6	55.8	49.0	40.0	.....	93	.....	.....	.....
Fallston (*a*)	29.2	24.0	38.2	51.0	60.9	71.0	70.8	74.6	67.7	49.8	45.5	37.0	51.6	94	— 3	Apr. 12	.....
Frederick[3]	28.5	25.1	40.0	52.4	63.1	73.4	71.6	75.2	70.4	50.2	44.8	36.4	52.6	97	— 4	.....	.....
Frederick[4]	28.8	26.0	41.0	53.1	.....	.....	.....	.....	.....	50.9	46.0	37.3	.....	.....	— 1	.....	.....
Garrison	.....	.....	39.0	50.8	61.4	71.6	69.8	74.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
Glyndon	26.2	.....	.....	51.6	62.0	73.6	71.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grantsville	22.8	19.2	33.8	46.2	55.8	66.5	64.0	67.4	65.2	44.3	41.0	31.8	46.5	90	—14	May 22	.....
Great Falls (*c*)	30.0	25.8	40.8	53.9	63.7	75.6	73.4	77.0	71.4	51.0	45.4	36.8	53.7	95	— 1	.....	.....
Green Spring Furnace	.....	.....	.....	.....	62.2	73.2	71.2	74.3	71.2	48.7	43.6	34.2	.....	100	.....	May 17	.....
Hagerstown	.....	.....	.....	.....	63.2	73.6	71.0	74.4	.....	.....	45.0	36.5	.....	.....	.....	.....	.....
Hancock	25.7	23.8	40.0	52.6	67.8	72.6	70.2	73.6	70.4	50.0	46.0	35.0	52.3	101	— 8	.....	.....
Jewell	33.4	25.8	42.8	53.6	62.0	74.1	71.6	76.3	[d]72.5	52.9	47.6	39.8	54.4	99	— 2	.....	.....
Johns Hopkins Hospital	30.4	25.5	39.3	52.0	62.2	.....	72.8	77.2	72.0	52.0	45.8	37.0	.....	.....	— 1	.....	.....
Laplata	33.2	27.2	43.2	55.6	63.5	74.9	73.8	[d]75.5	73.5	52.1	46.3	[e]40.0	54.9	100	2	.....	.....
Laurel	.....	.....	.....	.....	60.0	73.1	71.2	74.8	69.4	49.4	44.5	.....	.....	97	.....	.....	.....
Lisbon	.....	.....	.....	.....	.....	.....	.....	73.9	.....	51.7	[c]43.8	.....	.....	.....	.....	.....	.....
McDonogh	[f]30.0	[e]25.8	[e]39.8	51.0	61.0	73.6	71.6	75.1	69.6	[e]51.4	[d]46.6	.....	.....	.....	.....	.....	.....
Mardela Springs	33.0	25.7	41.9	53.4	61.2	74.0	72.3	79.9	72.1	[e]52.0	48.2	40.0	54.5	95	2	May 23	.....
Mt. St. Marys College (*a*)	[c]27.2	.....	38.6	52.6	62.9	74.7	[e]72.6	.....	.....	[e]51.4	44.7	[f]36.4	.....	.....	.....	.....	.....
New Market	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46.6	37.4	.....	.....	.....	.....	.....
Oakland	21.6	16.6	33.2	46.0	54.4	65.3	63.3	64.4	63.6	42.6	37.8	30.8	45.0	88	—12	May 17	Sept. 10
Oldtown	.....	.....	.....	.....	.....	67.5	.....	73.8	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pokomoke City	37.4	29.3	43.9	55.3	63.0	75.7	75.4	79.4	73.6	55.5	52.8	44.6	57.2	99	2	Apr. 19	.....
Popes Creek	32.2	.....	.....	53.4	[e]63.2	75.3	76.8	79.1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Princess Anne	34.3	25.3	42.3	54.1	61.6	74.6	73.7	76.7	71.6	51.2	48.3	40.5	54.5	96	3	Apr. 12	.....
Sharpsburg	26.2	22.8	39.2	52.4	62.8	73.2	71.2	75.1	70.8	49.5	43.9	34.5	51.8	97	— 6	May 17	.....
Solomons	34.7	27.4	43.2	53.9	62.6	76.0	75.8	80.2	75.6	56.4	49.6	40.1	56.3	100	3	.....	.....
Sunnyside	22.4	15.0	31.4	47.0	54.0	66.4	63.4	66.7	63.8	43.8	39.6	31.2	45.4	92	—17	.....	.....
Upper Marlboro	30.6	24.5	41.2	52.8	62.1	74.0	72.0	76.0	71.0	50.8	45.9	37.2	53.2	100	— 7	.....	.....
Western Port	24.4	21.6	37.0	50.4	61.1	70.2	70.3	72.1	68.8	45.6	40.6	31.1	49.4	102	— 8	.....	.....
Westminster	29.5	25.2	41.0	54.4	65.2	76.2	.....	79.0	73.3	54.3	49.0	36.7	.....	.....	— 4	.....	.....
Woodstock	28.0	24.2	39.8	51.4	61.8	[e]73.0	.....	74.7	68.6	48.2	44.0	36.3	.....	.....	— 7	.....	.....
Massachusetts.																	
Adams	23.8	21.2	30.0	45.5	59.2	68.0	65.6	67.2	60.4	44.8	40.6	33.0	46.6	90	0	May 14	Sept. 15
Amherst[5]	22.5	19.3	31.3	45.3	59.4	68.0	66.1	68.8	62.4	44.3	41.1	31.4	46.6	90	—10	May 14	Oct. 7
Amherst[6]	19.6	16.8	29.4	45.0	58.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Amherst[7]	23.2	19.5	31.2	45.6	59.7	69.1	67.6	69.7	64.1	47.1	41.1	32.0	47.6	97	—10	May 17	Oct. 2
Andover	24.6	21.1	39.2	45.8	58.0	66.2	66.5	.....	[f]66.2	45.5	41.4	32.8	.....	.....	—16	May 20	Oct. 9
Bedford	22.7	21.4	32.3	45.1	58.4	66.8	66.6	67.8	62.7	45.2	42.4	32.3	47.0	91	— 9	May 19	Oct. 2
Beverly Farms	25.5	21.2	32.8	42.5	54.9	63.0	64.3	65.3	60.9	46.4	41.8	32.2	45.9	92	— 9	May 14	Oct. 9
Bluehill (Summit)	25.5	21.1	30.5	44.0	58.4	66.0	66.7	69.0	64.0	46.6	41.4	32.8	47.1	93	—10	May 17	Oct. 9
Bluehill (Valley)	24.6	20.3	32.9	44.8	58.6	66.1	66.7	67.9	62.4	45.0	43.3	32.7	47.1	94	— 8	.....	.....
*Boston	28.8	24.6	34.6	46.0	60.2	66.8	69.3	71.0	65.7	49.6	45.4	35.6	49.8	96	— 6	May 17	Oct. 9
Brockton	27.7	23.6	34.5	45.6	59.3	67.9	68.5	69.7	64.8	47.7	43.6	34.0	48.9	96	— 7	May 2	Oct. 9
Cambridge[8]	26.1	22.5	33.6	46.4	60.8	68.5	68.8	69.7	65.2	48.4	43.1	33.2	48.9	96	— 8	May 2	Oct. 9
Cambridge[9]	25.8	21.8	33.0	45.4	60.6	68.6	69.5	71.2	64.5	46.7	42.2	32.8	48.5	93	— 5	May 2	Oct. 10
Chestnut Hill	26.4	22.4	33.8	46.1	61.2	69.0	69.0	70.4	65.4	47.4	43.9	33.4	49.0	96	— 8	May 2	Oct. 9
Concord	22.2	19.4	31.6	45.0	58.3	67.2	67.0	68.5	62.9	45.1	42.0	31.7	46.7	96	— 9	May 19	Sept. 15
Dudley	21.6	18.8	30.8	44.5	58.0	68.9	66.2	69.1	66.4	45.7	42.2	31.7	47.0	95	—12	May 19	Oct. 9
East Templeton (*a*)	21.8	19.2	29.1	46.7	58.6	68.0	66.7	70.7	62.0	43.1	38.6	29.3	45.9	90	—12	May 17	Oct. 7

[1] E. T. Shriver.
[2] Howard Schriver.
[3] McClintock Young.
[4] Woman's College.
[5] Miss S. C. Snell.
[6] Agricultural Experiment Station.
[7] Hatch Experiment Station.
[8] Harvard College Observatory.
[9] E. C. Brooks.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.
Massachusetts—Cont'd.																	
Egg Rock, Nahant	26.8	22.8	31.7	42.2	55.0	64.0	66.1	66.2	62.6	47.8	43.0	33.2	46.8	89	— 7	Apr. 16	Nov. 3
Fall River	29.4	23.5	34.5	45.7	58.4	67.8	68.6	71.3	66.4	49.7	45.8	36.0	49.7	94	— 4	May 2	Oct. 21
Fitchburg (a)[1]	22.5	19.9	30.0	43.7	58.8	67.7	67.0	67.4	61.7	43.6	39.6	30.8	46.1	91	—11	May 14	Oct. 10
Fitchburg[2]	22.2	19.6	30.7	44.7	59.1	68.0	66.7	68.9	63.7	44.3	40.6	31.1	46.6	95	—11	May 14	Oct. 11
Framingham	23.4	20.1	32.5	45.1	59.8	67.8	67.2	67.9	63.8	47.0	43.8	33.4	47.6	93	—13	May 20	Oct. 10
Groton	21.7	19.2	30.6	44.0	58.2	66.4	66.3	66.6	62.0	44.6	40.2	30.4	45.8	92	—11	May 19	Oct. 9
Hadley	14.6	18.0	30.4	44.0	59.0	68.1	66.8	68.3	62.8	44.4	39.6	29.3	45.4	95	—12	May 18	Oct. 10
Hyannis (a)	32.2	26.3	34.8	47.6	58.4	68.5	71.7	73.8	65.7	52.2	48.8	37.9	51.5	97	— 4	May 17	Oct. 11
Hydepark (f)	.....	.....	31.8	45.9	58.9	68.2	67.1	70.1	63.9	45.0	41.1	32.0	.....	.....	.....	.....	.....
Lake Cochituate	22.9	20.4	32.8	44.8	59.3	66.6	66.8	67.9	63.3	46.0	43.4	33.0	47.3	97	—14	May 14	Sept. 15
Lawrence	21.9	19.3	31.8	45.3	60.8	69.6	69.7	71.1	64.2	46.7	41.7	31.2	47.8	95	—11	May 14	Sept. 15
Leeds	21.2	17.6	29.7	44.5	59.0	68.0	67.2	68.1	61.2	43.5	39.7	29.3	45.8	94	—12	May 16	Oct. 2
Leicester	.....	.....	.....	.....	.....	.....	.....	.....	65.2	44.8	38.3	.....	.....	.....	.....	.....	.....
Leominster	22.9	19.9	30.4	45.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Long Plain (f)	27.1	22.9	34.0	45.0	57.9	67.4	67.8	68.9	64.4	46.2	44.9	34.3	48.4	93	— 8	.....	.....
Lowell[3]	22.2	19.3	31.4	45.1	60.1	69.3	69.0	69.7	64.6	46.3	41.2	32.0	47.5	95	—11	.....	.....
Lowell[3]	21.9	19.1	32.0	44.6	59.5	67.6	68.1	68.3	62.8	45.7	41.2	31.1	46.8	96	—11	.....	.....
Lowell[4]	25.8	23.0	33.4	45.0	61.4	69.7	69.2	71.0	66.0	48.8	44.0	33.6	49.2	99	— 9	May 14	Oct. 9
Ludlow Center	18.9	15.4	27.0	42.6	56.3	64.5	64.0	66.2	61.3	41.2	37.8	27.9	43.6	90	—10	May 13	Sept. 14
Lynn[5]	28.2	21.2	32.6	43.4	57.6	65.1	65.6	68.8	66.8	44.2	39.8	31.0	47.0	90	.....	.....	.....
Lynn[6]	26.6	23.1	33.9	45.0	59.0	67.8	68.7	69.2	65.9	47.8	44.6	33.7	48.8	94	— 6	May 2	Oct. 11
Mansfield (a)	25.7	21.6	33.8	45.1	59.2	68.1	67.8	69.4	62.9	44.7	42.5	32.7	47.8	96	— 8	May 17	Sept. 16
Middleboro	26.6	22.0	33.5	44.2	57.4	66.0	66.6	68.0	62.9	46.2	43.6	33.2	47.5	94	— 6	May 14	Sept. 16
Milton	28.0	23.0	35.0	46.0	58.5	66.6	66.4	68.0	62.0	46.8	43.8	34.5	48.2	90	— 8	May 2	Oct. 9
Monroe	17.1	13.6	24.5	39.1	55.2	65.3	62.7	63.4	57.6	39.6	36.0	27.4	41.8	88	—19	May 17	Sept. 15
Monson	23.7	19.2	34.0	46.9	59.6	68.6	66.2	69.1	62.8	45.1	42.5	31.0	47.4	93	—15	May 17	Sept. 15
*Nantucket	31.4	25.8	34.6	43.0	53.8	62.4	66.4	68.8	64.4	51.6	47.2	39.6	49.1	89	1	Apr. 12†	Oct. 11
Natick (a)	23.6	20.2	31.8	44.9	60.4	68.0	67.9	69.6	63.3	46.3	42.4	31.8	47.5	91	—10	May 18	Oct. 22
New Bedford[7]	28.2	23.8	35.4	44.9	57.0	66.7	67.2	69.0	64.6	49.0	45.9	35.2	49.0	92	— 8	May 2	.....
New Bedford[8]	28.5	23.6	35.0	44.1	56.5	66.1	67.1	69.7	64.7	48.3	45.1	35.4	48.7	93	— 6	May 2	Oct. 10
North Billerica	26.0	23.8	35.0	47.8	61.2	69.4	69.8	68.2	63.5	47.0	43.8	34.6	49.2	98	— 5	May 17	Oct. 10
Pittsfield	20.2	15.3	27.4	42.2	56.3	67.8	65.0	64.2	60.0	43.2	39.5	28.8	44.2	88	—16	May 14	Oct. 10
Plymouth (a)	30.7	25.0	35.4	46.2	59.8	67.7	.....	.....	65.0	[f]49.4	[e]46.9	[e]38.1	.....	.....	— 4	.....	.....
Provincetown	30.1	25.4	34.4	43.9	.....	.....	68.6	69.9	64.4	49.6	44.9	38.7	.....	.....	— 3	.....	.....
Roxbury	28.4	24.2	34.7	46.0	59.6	[e]67.5	.....	[d]68.9	[e]64.6	[d]48.6	45.4	36.2	.....	.....	— 6	Apr. 12	Oct. 21
Somerset (a)	29.8	23.8	36.1	47.8	62.9	71.5	.....	73.9	67.6	50.0	46.6	36.1	.....	.....	— 8	Apr. 21	Oct. 9
Springfield Armory	25.4	23.6	32.7	46.2	60.6	70.7	67.3	70.6	63.9	44.2	41.1	31.2	48.1	96	—10	.....	Sept. 15
Taunton[9]	27.9	23.6	35.7	46.3	.....	.....	.....	.....	63.1	46.2	44.0	34.1	.....	.....	— 6	.....	Oct. 9
Taunton[10]	27.1	23.0	35.2	45.3	[e]57.4	66.6	66.4	67.9	63.1	45.3	43.6	32.9	48.5	93	— 7	May 17	Sept. 15
Taunton[11]	27.4	22.0	33.3	45.2	61.2	67.2	67.9	69.8	.....	.....	.....	.....	.....	.....	.....	.....	.....
Turners Falls	21.1	18.6	31.4	45.6	59.9	69.3	67.8	69.3	63.0	44.7	39.6	29.0	46.6	92	— 9	Apr. 29	Oct. 10
*Vineyard Haven	33.7	27.7	37.8	45.8	58.6	67.0	69.4	71.2	66.6	52.0	48.8	40.6	51.6	91	0	Apr. 12†	Oct. 22
Wakefield	24.7	21.6	33.1	45.2	59.1	67.9	67.4	.....	62.9	46.0	42.3	32.4	.....	.....	—10	May 2	Oct. 22
Westboro	25.8	22.0	33.5	46.2	62.2	70.0	68.6	70.7	65.6	46.9	43.2	33.8	49.0	95	— 9	May 17	Sept. 15
Williamstown (a)	20.9	16.8	28.2	43.4	58.2	68.2	67.1	67.6	61.7	43.6	38.7	29.9	45.4	90	—15	.....	.....
Winthrop	28.0	24.2	.....	43.4	60.0	65.4	67.2	.....	64.4	.....	[e]44.7	.....	.....	.....	.....	.....	.....
*Woods Hole	30.5	24.2	33.9	42.9	53.2	63.3	67.0	69.2	64.5	50.6	46.2	37.6	48.6	85	— 1	Apr. 10†	Nov. 22
Worcester[13]	23.8	19.4	31.4	45.2	[e]58.4	.....	.....	.....	.....	48.3	.....	.....	.....	.....	.....	.....	.....
Worcester[13]	25.0	20.9	32.6	45.6	59.1	68.6	67.9	69.5	63.6	46.2	42.4	33.1	47.9	89	—10	May. 14	Oct. 22
Worcester[14] (a)	23.0	19.2	30.4	[e]43.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Michigan.																	
Adrian	18.6	17.0	29.8	49.3	59.8	71.4	71.6	72.6	67.6	45.0	36.2	27.1	47.2	100	—20	May 21	.....
Albion	19.3	19.2	28.8	49.6	61.3	.....	.....	.....	.....	45.0	36.6	29.7	.....	.....	— 9	.....	Oct. 1
Allegan	18.4	17.5	30.4	50.2	59.8	71.4	71.0	72.4	67.7	45.4	37.3	30.8	47.7	98	—13	May 21	.....
Alma	16.2	14.2	25.5	46.5	58.8	68.5	67.4	68.6	64.0	42.8	32.6	27.6	44.4	96	—18	May 16	.....
*Alpena	17.4	14.9	22.0	40.6	52.7	63.2	62.6	63.1	61.0	41.6	33.0	26.7	41.6	95	—23	May 21	Sept. 24
Ann Arbor	18.2	16.1	27.6	48.2	59.2	71.2	70.6	70.0	66.1	45.0	36.1	28.0	46.6	94	—10	May 21	Sept. 24
Arbela	15.4	13.5	23.9	43.8	56.2	65.6	.....	66.9	.....	44.4	34.2	27.4	.....	.....	—16	May 16	Sept. 29
Ball Mountain	17.8	14.6	24.6	46.2	57.6	68.2	67.2	67.0	63.8	41.9	33.2	25.9	44.0	94	—18	May 22	Sept. 23
Battle Creek	.....	.....	30.2	50.8	60.2	71.8	71.1	72.0	66.4	44.1	36.2	28.5	.....	97	.....	May 21	Sept. 24
Bearlake	[f]20.8	[e]14.4	22.4	43.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Benton Harbor	.....	.....	29.6	.....	57.2	71.6	.....	.....	67.5	46.9	38.1	26.2	.....	.....	.....	May 22	Oct. 21
Berlin (a)	16.5	14.4	24.6	44.9	58.4	68.4	68.1	69.3	63.7	43.4	34.8	26.9	44.4	101	—22	May 21	Oct. 1
Berrien Springs (a)	20.6	20.2	32.8	51.6	61.2	72.5	72.3	72.9	68.4	45.6	38.9	32.3	49.1	100	— 8	May 20	Oct. 10
Birmingham	19.4	16.3	27.4	48.1	60.6	71.2	69.8	70.2	64.6	43.6	35.1	28.3	46.2	97	—17	.....	.....
Bois Blanc (h)	.....	.....	.....	43.0	52.6	63.7	65.3	64.9	62.4	45.7	[f]29.1	.....	.....	.....	.....	.....	.....
Boon	[e]14.1	[e]13.8	18.4	43.7	55.3	65.4	64.4	64.2	59.6	[g]37.0	.....	.....	.....	93	.....	June 29	Sept. 24
Bronson	16.0	15.0	28.1	49.8	59.8	71.8	.....	.....	.....	44.8	37.2	28.2	.....	.....	—12	May 21	.....
Brown City	[h]16.8	[f]11.7	24.3	45.8	59.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 21	Oct. 9
Calumet	13.6	12.0	19.0	40.7	53.2	59.7	61.5	62.2	56.5	39.5	29.8	22.8	39.2	88	—20	.....	.....
Charlevoix	18.2	15.5	24.1	44.3	55.8	64.6	63.6	64.8	62.3	45.6	36.5	31.4	43.9	93	—24	.....	.....
Cheboygan	14.6	11.0	19.8	41.3	53.4	63.0	62.7	63.0	60.1	40.7	31.3	24.6	40.5	93	—38	.....	Oct. 4
Clinton	17.1	17.3	29.0	49.2	60.1	71.7	70.6	72.0	67.6	44.8	36.0	27.2	46.9	99	—16	May 21	Oct. 10
Crisps (h)	.....	.....	.....	38.4	54.0	59.4	60.1	61.1	58.2	41.6	.....	.....	.....	.....	.....	.....	.....
Crystal Falls	.....	.....	20.3	44.2	55.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 20	.....
*Detroit	20.0	17.9	28.5	48.6	59.6	71.2	70.4	71.2	66.7	45.4	37.8	29.6	47.2	96	— 8	May 21	Sept. 30
Escanaba	18.4	14.0	24.1	41.5	52.2	.....	66.2	[d]69.2	66.5	.....	.....	.....	.....	.....	.....	.....	.....
Fairview	17.1	14.0	28.2	47.4	60.0	71.1	69.3	69.7	66.6	44.6	.....	26.0	.....	94	—11	May 23	.....
Fitchburg	17.5	15.1	26.6	47.0	58.4	70.6	69.6	68.6	64.9	42.2	34.5	26.9	45.2	99	—20	May 21	.....
Flint	16.2	14.4	24.4	46.6	57.0	67.9	67.1	68.4	62.8	41.9	34.4	25.8	43.9	97	—20	.....	.....
Frankfort	25.0	21.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Dr. J. Fisher.
[2] Dr. A. P. Mason.
[3] Prop. locks and canals.
[4] F. E. Saunders.
[5] J. W. Darcey.
[6] W. C. Winter.
[7] T. R. Rodman.
[8] New Bedford waterworks.
[9] Mrs. Harriet R. Sprague.
[10] Taunton waterworks.
[11] O. H. Willmarth.
[12] Worcester Academy.
[13] G. W. Swan.
[14] J. B. Hall.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.																	
Gladwin	15.9	12.1	22.4	43.4	56.8	68.7						27.3					
Grande Pt. Au Sable (*h*)	19.5	16.8	24.9	41.0	52.5	63.4	66.1		63.8	47.6							
*Grand Haven	19.8	19.2	27.8	47.5	55.8	66.3	67.3	68.4	64.7	45.2	36.4	30.4	45.7	90	—8	May 21	Oct. 12
Grand Rapids	19.3	17.2	29.8	[c]52.4	61.3	72.3	72.2	71.7	67.2	43.3	35.4	29.0	47.6	99	—16		
Grape	19.2	16.7	29.0	47.7	58.6	70.7	72.4	72.6	68.7	46.6	38.0	29.6	47.5	94	—14	May 21	Oct. 21
Grayling	13.6	11.2	17.8	44.0	55.4	66.4	64.6	64.6	60.8	40.9	30.6	23.6	41.1	98	—32		
Grindstone City (*h*)			23.8	40.8	57.1	64.0	63.5	63.1	62.6	42.8	34.5	28.1					
Hammonds Bay (*h*)				39.7	52.2		68.2	65.9	64.6		39.4						
Hanover	21.4	16.8	30.1	49.4	59.6	70.1	69.5	70.4	67.4	45.9	38.9	31.6	47.6	92	—20	May 21	Oct. 8
Harbor Springs		[f]14.6	20.4	41.7	[d]54.3	64.3	64.2	62.6	61.3	42.0	33.3	26.4		90			
Harrison	[e]13.8		20.1								[e]31.4	24.1					
Harrisville	16.0	14.0	22.8	39.4	52.6	64.0	63.2	63.0	61.4	43.0	32.6	26.1	41.5	98	—23		
Hart	18.8	16.0	25.8	44.7	53.6	61.6		62.0								May 27	Oct. 15
Hastings	19.0	16.8	28.0	48.6	58.6	70.4	69.6	70.0	65.6	43.4	34.9	29.4	46.2	93	—17		Oct. 9
Hayes	17.8	15.2	24.6	43.2	56.4	70.8	69.4	66.0	67.4	44.4	36.3	27.8	44.9	96	—22		
Hesperia	13.6	13.5	23.8	46.2	56.6	70.8	70.4	70.0	65.8	45.4	35.0	29.4	45.0	99	—24	May 21	Sept. 24
Highland Station	16.9	14.4	25.7	[f]48.9	[c]58.8	69.3					[e]35.6	25.8			—16	May 21	
Holland (*h*)	22.0	21.3	30.7	48.0	58.9	69.1	67.9	70.6	66.8	49.4	39.1	32.2	48.0				
Howell	16.8	15.2	26.5	47.4	58.0	69.2	69.0	69.5	65.8	43.8	34.3	25.1	45.0	98	—21	May 21	Oct. 10
Ivan	16.0	13.6	20.5	44.2	56.4	68.0	66.6	65.8	62.4	41.2	32.6	24.6	42.7	95	—20	May 20	Oct. 3
Jeddo	18.2	15.0	23.9	44.2	57.0	67.4	66.4	68.0	63.0	43.2	35.3	26.8	44.0	95	—19	May 21	Oct. 1
Kalamazoo	18.7	17.9	31.2	50.6	60.4	71.2	71.8	72.7	[h]66.0	44.8	37.4	29.8	47.7	94	—11		Oct. 10
Lansing	17.3	15.1		48.7	59.9	70.7	69.3	69.6	64.7	43.1	34.3	27.3		92	—11	May 21	Oct. 9
Lathrop (*a*)	11.4	11.6	17.0	41.0	54.1	64.9	64.0	62.1	[c]57.2	38.8	27.6	21.3	39.2	92	—23	May 27	
Lewiston	15.7	13.9	21.6	44.5	59.2	68.6	66.6	65.9	62.2	40.9	31.8	25.3	43.0	97	—23	May 20	Sept. 29
Ludington (*h*)	23.1	21.6	29.4	43.9	51.8	65.2	66.0	67.1									
Madison	17.9	17.2	29.8	49.0	60.0	71.2	71.5	72.1	67.4	45.2	36.4	27.4	47.1	98	—17	May 21	Sept. 24
Manistee (*h*)		17.7	22.0	42.7	54.0	65.9	64.4	65.9									
*Marquette	14.6	14.5	20.8	40.4	53.3	60.0	62.7	63.8	60.1	40.7	31.6	24.8	40.6	98	—16	May 14	Oct. 3
Mayville	18.4	15.1	25.5	47.2	59.2	70.6	[c]69.0	69.4	64.3	44.2	32.6	27.6	45.3	98	—15	May 21	
Middle Island (*h*)	21.6	19.1	24.8	39.4	52.7	63.4	64.9	64.3	61.4	45.8	36.9	32.0	43.9				
Montague				44.4	55.6												
Mottville	17.4	16.0	32.4	50.8	60.6	71.6	71.4	71.5	68.4	45.0	37.0	28.2	47.5	99	—14	May 21	Oct. 1
Mount Pleasant									63.7	43.2	32.1	27.8					Oct. 9
Muskallonge Lake (*h*)				37.9	51.8	59.9	58.6	60.4	57.6	40.7	31.4						
North Manitou Island (*h*)	20.8	18.2	23.3	40.6		62.8	65.6		63.0	45.8	37.1	30.5					
North Marshall	16.0	14.4	26.8	47.6	57.4	68.1	69.2	69.5	64.5	41.4	33.7	24.9	44.5	95	—17	May 15	
Northport	21.7	17.7	23.8	43.3	54.5	64.2	65.0	64.0	[d]63.2	43.4	35.8	30.0	43.9	91	—19		Oct. 7
Old Mission	20.8	17.4	23.7	44.6	56.7	67.1	67.6	67.4	64.2	44.8	36.0	29.5	45.0	93	—16	May 13	Oct. 18
Olivet							71.2	70.6	66.8	44.2	35.8	27.4					Oct. 10
Ottawa Point (*h*)				40.6	53.5	65.8	66.2	66.6	63.6	45.4	37.0						
Ovid	17.6	15.3	25.8	47.2	59.6	71.6	70.0	69.8	64.8	42.4	33.1	26.8				May 21	Oct. 13
Pentwater (*h*)				47.9	56.8	69.3	67.2	69.7									
Pointe Aux Barques (*h*)	19.9	16.8	24.4	39.8	57.5	68.7	68.2	67.4	65.8	46.4							
Point Betsey (*h*)	22.2	16.0	27.1	45.3	53.1	63.5											
Pontiac	19.2	16.9	[c]28.2	47.8	58.8	68.8	68.4	68.6	63.8	44.2	34.9	26.8	45.5	96	—18		
*Port Huron	19.6	16.6	25.6	43.8	57.6	67.9	66.3	68.8	64.4	44.0	37.2	28.9	45.1	95	—16	May 21	Sept. 30
Rockland	12.8	[e]11.8	[c]22.8	[f]44.8	55.5	63.4	[d]62.9	62.0	[c]59.1	[c]36.5	[c]30.6	[c]21.4	40.3	92	—25		
Romeo	18.3	16.5	25.0	47.6	59.6	70.2				44.3	35.5	27.3			—16	May 21	Oct. 9
St. Ignace	15.0	10.9	19.6	40.4	50.2	62.4	62.2	61.0	58.8	40.5	31.8	25.4	39.8	87	—35	May 21	Oct. 15
St. Johns	18.6	17.4	28.2	49.2	60.6	73.7	71.0	72.4	67.0	45.2	35.1	28.0	47.2	98	—12	May 21	Oct. 1
Sandbeach[1]	19.4	15.9	24.0	40.0	56.5	65.2	64.5	65.8	63.6	44.5	36.1	28.7	43.7	96	—17	May 20	Oct. 8
Sandbeach (*h*)[2]				42.0	58.4	65.9	63.3	66.4	63.2	45.3	36.4	29.6					
Saranac								68.8	65.9	43.0	33.4	28.8					Oct. 21
*Sault Ste. Marie	12.6	10.8	15.4	39.9	52.5	61.0	60.4	60.4	57.0	39.6	29.9	23.6	38.6	89	—28	May 21	Oct. 3
Ship Canal (*h*)								65.1	59.8	41.3	32.1						
Somerset									66.9	42.4	35.2	26.6					
South Haven									66.4	45.5	36.6	29.0					Oct. 21
Standish			23.3	46.1	62.1	71.5		67.1	63.7			25.0				May 21	Sept. 30
Stanton	16.4	14.4	25.3	46.4	58.2	69.5	68.6	68.3	63.1	42.4	33.2	26.8	44.4	97	—22	May 16	Sept. 30
Sturgeon Point (*h*)				38.8	50.2	64.3	64.3	64.7	62.0	44.5	34.2	29.9					
Thornville	18.0	16.6	25.6	48.1	60.8	70.9	70.0	71.2	65.8	44.6	36.2	29.0	46.4	96	—15	May 21	Oct. 1
Thunder Bay Island (*h*)	19.8	16.4	23.4	37.8	49.0	60.9	63.2	63.4	60.8	44.4		28.6					
Two-Hearted River (*h*)				36.7	52.6	60.7	59.4	60.8	57.6	40.2	31.2	25.2					
Vandalia	18.9	19.0	33.2	52.2	60.6	71.8	[h]70.1	72.2	67.9	45.7	38.6	31.0	48.4	95	—12	May 21	
Vermilion Point (*h*)							54.2	54.8	52.9	35.8	27.7						
Ypsilanti	17.8	15.5	27.8	46.6	58.0	68.1	68.0	67.7	64.5	43.3	35.0	26.3	44.9	94	—16	May 21	Sept. 24
Minnesota.																	
Ada	2.6	3.2	22.6	50.4	55.7	[e]60.1	65.2	[i]62.5	56.8	38.7	22.6	12.3	37.7	95	—42	May 20	Aug. 31
Albert Lea			28.2	52.1	58.3	65.8	69.8	70.2	65.4	43.4	27.1	21.4		92		May 12	Sept. 29
Beardsley	1.5	8.4	26.6	51.8	56.6	62.6	67.5	66.6	62.4	45.0	26.4	18.6	41.2	104	—33	May 26	Aug. 31
Belleplaine (*a*)	8.4	10.8	27.8	49.7	57.6	69.7					25.7	14.4			—34		
Bingham Lake	5.5	11.3	30.3	54.8	58.2				64.0								Sept. 25
Bird Island	4.2	8.6	26.6	51.6	57.6	66.4	69.3	68.6	63.4	42.8	28.2	18.2	42.1	100	—31	May 21	Sept. 29
Blooming Prairie	6.6	10.2	27.4	51.0	58.0	66.3	68.4	69.1	64.9	42.6	29.1	18.8	42.7	94	—28	May 26	Sept. 30
Bonniwell	4.0	9.2	[i]19.3	50.6	59.8	67.3	70.4	69.6	64.4	44.0	28.4	18.2	42.1	102	—29	May 22	Sept. 29
Caledonia	7.4	10.0	29.0	48.5	57.9	68.0	69.2	70.5	65.0	42.4	31.6	21.5	43.4	96	—30	May 19	Sept. 30
Cambridge	4.6	9.6	26.6	49.0	57.2	65.6	67.0	65.8	61.4	40.9	28.6	19.4	41.3	91	—32	May 21	Sept. 30
Camden	5.5	12.8	27.6	53.4	58.3	65.6	69.6	68.4	63.0	43.8	29.2	20.6	43.2	102	—27	May 21	Sept. 30
Campbell	—1.1	4.9	25.8	51.4	57.4	63.6	66.7	65.0								May 26	
Carver (*b*)					54.3			64.8	59.2		23.0					May 19	
Clearlake	0.0	5.6	24.4	50.1	56.2	64.6	68.0	67.2	61.0	40.7				97	—34	May 21	Sept. 30
Clearwater (*a*)	5.3	9.8	26.0	48.8	56.4	64.2	66.5	64.7	60.3	40.7	28.7			98	—37	May 13	Sept. 27

[1] C. S. Nims.

[2] Life-saving station.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.																	
Collegeville	5.7	12.6	28.6	[b]52.2	[f]56.4	66.6	71.0	70.2	64.2	44.8	31.4	22.1	43.8	98	—27	May 19	Sept. 30
Crookston	—4.4	4.4	22.8	49.4	55.8	61.4	66.1	64.8	56.7	40.7	22.0	13.8	37.8	94	—38	May 21	Sept. 23
Dawson (*a*)	5.0	9.1	26.8	49.4	54.0	63.9	70.7	[j]68.3	61.0	41.3	26.0	12.8	40.7	102	—32	May 21	.....
*Duluth	7.8	12.6	23.3	41.8	50.2	57.4	62.4	65.4	57.6	42.0	29.0	19.8	39.1	89	—27	May 19	Sept. 30
Farmington	3.3	8.2	28.0	51.0	57.2	65.2	67.8	69.6	63.2	42.1	28.8	19.5	42.0	96	—36	May 19	Sept. 30
Fergus Falls	1.4	5.6	24.6	51.4	56.8	63.2	67.2	65.4	59.8	41.8	26.4	16.4	40.0	93	—34	May 21	Sept. 23
Glencoe	.....	8.6	25.4	51.2	55.9	64.9	68.2	67.2	61.6	42.4	29.2	20.2	.....	101	.....	.....	Sept. 23
Glenwood	.....	.....	.....	.....	.....	.....	.....	66.8	61.2	41.5	27.5	17.0	.....	.....	.....	.....	Sept. 30
Grand Meadow	3.5	8.0	25.6	49.8	58.4	68.2	70.0	69.9	64.2	40.5	28.8	18.5	42.1	98	—32	May 19	Sept. 27
Grand Portage	.....	.....	[e]20.6	36.2	40.2	47.6	55.6	57.9	49.8	32.4	21.9	.....	.....	89	.....	May 28	Oct. 1
Granite Falls	3.2	6.2	[e]30.6	53.1	58.6	65.8	70.0	68.9	64.6	[g]41.7	28.0	19.6	42.5	105	—31	May 28	Sept. 27
Hutchinson	2.2	9.2	27.2	51.9	58.6	66.0	70.0	69.2	62.4	41.8	26.9	16.8	41.8	99	—31	.....	Sept. 29
Koochiching	.....	.....	14.4	42.7	53.4	58.4	63.0	[d]62.0	54.1	[d]33.7	21.8	6.8	.....	89	.....	May 26	Sept. 27
Lake Winnibigoshish (*a*)	0.7	6.6	19.3	46.4	54.1	59.7	63.8	62.6	56.3	35.7	24.2	13.6	36.9	86	—40	May 15	.....
Lawrence	3.8	11.8	23.8	46.2	55.4	65.4	66.2	64.2	60.4	43.1	.....	20.2	.....	94	—32	May 21	Sept. 9
Leech Lake (*a*)	—3.0	8.4	16.0	46.2	41.2	61.1	63.0	62.0	55.7	37.7	22.8	13.0	35.5	89	—54	May 26	Sept. 28
Long Prairie	—1.4	6.7	23.4	48.8	55.2	65.7	68.4	64.7	58.3	39.7	26.6	16.2	39.4	96	—35	May 21	Sept. 30
Luverne	6.7	11.7	28.2	53.7	57.5	64.2	68.2	68.8	64.0	42.6	30.2	20.6	43.0	99	—28	May 21	Sept. 30
Mapleplain	4.1	9.6	[d]31.0	51.6	58.8	67.4	69.6	68.6	63.8	42.4	29.5	20.3	43.1	99	—34	May 19	Sept. 30
Mazeppa (*a*)	4.8	9.5	27.9	50.1	56.7	69.6	70.1	68.2	63.8	41.7	34.7	18.8	43.0	100	—30	May 19	Sept. 30
Milan	2.0	7.1	25.8	52.8	58.8	65.1	70.4	69.0	63.4	44.0	26.6	17.3	41.9	105	—36	May 21	Aug. 31
*Minneapolis	6.8	12.0	29.9	53.0	59.5	67.8	70.6	70.0	66.1	44.9	31.8	22.5	44.6	96	—26	May 21	Sept. 30
Minneapolis [1]	4.7	9.8	28.2	52.0	59.2	67.4	70.2	69.2	65.1	43.2	30.2	20.4	43.3	100	—30	May 13	Sept. 30
Minneapolis (*a*) [2]	5.0	9.9	27.1	50.7	58.0	66.4	69.7	69.1	62.9	41.5	29.2	20.3	42.5	96	—30	May 21	Sept. 30
Minnesota City	9.0	12.8	29.6	52.5	60.2	66.6	66.4	69.0	67.0	43.4	33.2	23.2	44.4	97	—30	May 14	Sept. 30
Montevideo	2.2	8.6	28.2	53.2	58.1	65.7	70.4	69.6	63.7	45.8	28.4	18.1	42.7	102	—31	May 21	Aug. 29
*Moorhead	—2.0	5.4	24.2	50.3	55.8	61.4	65.4	65.0	58.3	41.1	23.2	14.4	38.5	92	—34	May 26	Sept. 23
Morris	1.4	6.4	26.4	52.6	58.7	65.6	69.1	68.4	60.8	43.0	27.3	17.6	41.4	97	—35	May 11	Sept. 23
Mount Iron	0.4	6.8	18.4	44.4	52.3	60.9	61.2	60.8	54.2	37.2	22.6	14.3	36.1	88	—42	.....	Sept. 24
Myrna	.....	.....	.....	.....	.....	.....	75.2	76.5	.....	.....	.....	.....	.....	.....	.....	.....	.....
New London	2.4	8.2	26.6	51.4	58.1	65.6	69.6	70.0	65.2	43.0	29.0	17.0	42.2	102	—32	May 21	Sept. 23
New Richland (*a*)	.....	[d]11.1	[e]30.5	[d]52.6	[d]59.4	66.0	[d]70.0	[d]70.1	[e]66.0	[d]43.2	31.0	[e]22.0	.....	94	.....	.....	Sept. 27
New Ulm	8.4	13.3	32.0	55.6	62.8	70.2	72.7	71.0	65.3	45.4	31.6	21.9	45.8	99	—34	Apr. 3	Sept. 30
Park Rapids	—1.2	5.0	20.0	47.3	54.6	.....	65.0	62.6	56.4	38.2	23.8	13.7	.....	.....	—44	May 21	Sept. 23
Pine River (*a*)	0.7	7.6	21.2	46.8	55.0	63.4	65.3	65.0	57.9	40.0	25.3	16.4	38.7	89	—41	May 21	Sept. 1
Pleasant Mounds	5.4	9.8	28.7	51.6	57.2	[d]66.6	69.6	70.4	64.4	45.6	30.0	22.3	43.5	97	—30	May 26	Sept. 30
Pokegama Falls (*a*)	—1.7	6.2	19.5	44.5	51.5	60.8	62.6	61.0	54.7	34.4	23.2	11.4	35.7	90	—54	May 21	Aug. 21
Redlake	[c]—2.2	9.6	18.6	46.3	[b]49.2	60.1	64.5	[g]62.2	[g]56.2	.....	22.8	14.4	.....	94	—48	May 12	Sept. 27
Rolling Green	4.8	11.3	29.8	52.4	58.0	65.6	69.6	70.5	64.8	43.5	29.4	21.5	43.4	94	—30	May 26	Sept. 30
Roseau	.....	.....	.....	50.2	[g]52.8	58.4	.....	.....	51.8	37.4	19.6	.....	.....	.....	.....	May 26	Sept. 8
St. Charles	6.1	9.4	28.4	50.0	59.3	68.6	69.4	68.8	64.3	41.4	30.4	20.7	43.1	100	—32	May 21	Sept. 30
St. Cloud	3.2	9.6	25.6	49.1	55.8	64.9	67.6	66.6	60.7	40.4	27.8	17.6	40.7	94	—30	May 20	Sept. 30
St. Olaf	[c]0.9	[b]12.0	[g]25.7	51.2	57.6	68.1	66.8	65.5	59.2	41.4	26.0	16.0	40.9	92	—30	Apr. 12	Sept. 30
*St. Paul	6.0	10.7	28.2	52.3	58.6	66.9	70.0	69.8	65.1	43.7	30.6	21.1	43.6	96	—26	May 13	Sept. 30
St. Peter	7.4	10.4	29.1	52.3	59.7	67.2	71.0	69.0	65.2	43.1	31.0	20.4	43.8	98	—31	May 13	Sept. 28
*St. Vincent	—6.2	2.7	18.6	48.2	54.2	58.2	63.2	62.4	53.6	39.6	19.4	10.2	35.3	90	—41	May 26	Sept. 8
Sandy Lake Dam (*a*)	2.3	7.7	20.3	45.4	54.6	61.4	64.6	63.0	56.3	38.6	25.5	15.3	37.9	90	—49	May 27	Sept. 27
Sauk Center	1.0	7.2	25.2	49.6	55.8	63.6	68.0	65.0	58.2	41.6	26.6	16.3	39.8	98	—32	May 13	Sept. 22
Shakopee (*f*)	.....	11.0	28.8	54.5	60.4	68.9	71.6	70.5	65.4	43.4	30.3	20.5	.....	96	—36	May 21	Sept. 30
Sunrise City (*f*)	2.7	9.4	25.8	50.2	58.4	67.5	68.9	66.7	61.2	40.1	28.2	18.4	41.5	92	—36	May 20	Sept. 1
Tower	.....	.....	.....	.....	.....	61.5	61.6	61.6	56.0	39.0	24.8	14.3	.....	.....	.....	.....	Sept. 27
Two Harbors	8.7	14.6	24.5	42.8	50.4	57.5	62.4	65.0	57.9	42.2	32.2	23.6	40.2	85	—30	May 21	Sept. 30
Wabasha (*a*)	7.1	11.6	29.2	52.0	59.2	67.6	69.0	68.6	66.1	42.1	31.5	21.1	43.8	100	—28	May 14	Sept. 30
Willmar	0.7	7.0	25.2	51.0	56.8	64.0	68.0	67.2	[d]60.9	40.8	27.2	16.9	40.5	99	—33	May 21	Sept. 29
Winona	9.5	12.4	29.8	52.4	61.1	70.2	70.8	71.4	66.4	43.2	32.5	22.6	45.2	95	—23	May 14	Oct. 8
Worthington	5.6	12.0	28.6	53.6	58.0	66.2	68.0	70.2	64.4	44.6	29.3	19.6	43.3	98	—28	May 20	Sept. 7
Zumbrota (*a*)	.....	10.5	28.8	51.5	60.4	66.8	69.2	69.8	64.1	[f]41.3	30.8	19.7	.....	94	.....	May 18	Sept. 22
Mississippi.																	
*Aberdeen	.....	.....	.....	.....	69.4	78.8	81.5	81.2	80.2	59.6	.....	.....	.....	104	.....	Mar. 21	Oct. 10
Agricultural College	41.2	37.0	53.9	65.0	68.9	78.9	79.8	80.2	78.1	61.0	53.8	45.4	61.9	97	2	Mar. 21	Nov. 2
Austin	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	53.5	48.2	.....	.....	.....	.....	.....
*Batesville	41.5	34.3	52.6	63.6	69.2	78.0	79.6	79.0	76.6	55.2	50.0	44.0	60.3	97	0	Mar. 21	Oct. 9
Bay St. Louis	48.1	41.6	59.3	66.4	73.2	79.6	.....	.....	81.6	66.7	58.3	50.3	.....	.....	12	Mar. 3	Dec. 4
Biloxi	49.4	43.2	58.2	65.7	72.3	78.6	81.8	80.4	79.5	63.4	55.8	47.8	64.7	92	12	Mar. 2	Nov. 26
Briers	46.4	40.2	58.0	65.4	70.4	77.8	60.6	79.0	77.6	62.4	54.1	48.9	63.4	93	7	Mar. 17	Nov. 26
*Brookhaven	47.1	40.4	60.1	67.0	73.1	80.3	82.4	81.6	81.1	62.8	56.4	49.6	65.2	100	2	Mar. 21	Oct. 22
Canton	45.0	37.8	56.5	65.3	70.0	77.8	81.2	80.0	79.8	60.8	55.2	48.5	63.2	96	5	Mar. 17	Oct. 21
*Columbus	43.2	37.0	55.3	.....	71.7	80.6	83.2	83.0	81.0	59.6	.....	.....	.....	105	.....	Mar. 21	Oct. 21
*Corinth	37.3	30.9	48.1	61.4	63.8	73.6	74.2	75.0	71.3	57.4	.....	.....	.....	.....	.....	May 14	Oct. 20
Crystal Springs	44.4	38.6	57.6	65.1	70.4	79.0	80.8	79.4	78.9	[g]62.6	.....	48.6	.....	98	3	Mar. 21	Oct. 21
Duck Hill	41.6	35.0	53.6	63.2	69.8	77.8	79.4	79.6	77.2	.....	.....	[e]44.6	.....	97	0	Apr. 2	.....
Edwards	44.0	38.0	57.8	66.4	72.0	80.5	82.6	81.3	80.5	61.6	55.8	49.0	64.1	98	4	Mar. 17	Nov. 2
Enterprise	45.6	39.0	.....	65.4	[e]71.4	78.2	79.8	.....	77.8	.....	.....	.....	.....	.....	.....	.....	.....
Fayette	48.2	40.9	58.5	65.4	70.8	79.3	80.8	79.8	79.2	63.0	55.7	49.5	64.3	99	7	Mar. 21	Nov. 2
French Camps	39.8	36.6	[e]53.8	63.8	67.7	[e]76.8	78.4	78.2	75.8	56.1	51.0	45.0	60.2	98	2	Apr. 3	Oct. 21
Fulton	41.4	35.6	52.8	62.8	68.0	77.6	79.8	80.8	78.2	57.0	51.4	42.9	60.7	96	0	Apr. 3	Oct. 10
Greenville [3]	42.3	38.2	55.2	65.7	71.1	79.0	78.6	80.4	78.4	57.6	58.6	46.2	62.2	96	4	Mar. 21	Oct. 10
*Greenville [4]	42.6	.....	.....	65.0	70.2	78.5	80.7	80.8	77.7	56.8	53.2	44.8	.....	100	.....	.....	Oct. 10
Hattiesburg	47.6	39.6	56.6	63.2	70.4	79.1	80.0	79.0	77.2	.....	.....	.....	.....	101	.....	Mar. 21	.....
*Hazlehurst	.....	.....	.....	66.3	71.8	79.8	81.8	81.0	81.0	63.4	.....	.....	.....	99	.....	.....	Nov. 12
*Hernando	38.0	33.6	51.6	63.2	69.3	78.4	79.2	79.8	78.2	58.0	.....	.....	.....	96	0	Mar. 21	.....
*Holly Springs	38.3	33.0	51.8	63.2	68.8	78.2	78.2	79.2	77.0	57.4	.....	.....	.....	96	—4	Mar. 21	Oct. 9
Itta Bena	.....	.....	[f]55.8	63.7	69.5	78.3	79.7	78.9	[d]77.8	[e]57.4	53.6	44.0	.....	97	.....	Mar. 21	Oct. 22

[1] William Cheney. [2] J. H. Aschenbeck. [3] Robert Somerville. [4] Cotton region and river observer.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.																	
*Jackson	45.7	39.0	57.6	65.4	71.8	79.6	82.1	80.8	79.8	[e]60.1	52.8	45.2	63.3	98	6	Mar. 17	Oct. 21
Kosciusko	43.0	37.9	55.8	63.7	69.4	77.4	80.2	80.0	79.0	60.2	53.5	45.8	62.2	99	4	Mar. 21	Nov. 2
*Lake	[d]43.9	.....	53.8	64.5	70.6	77.6	79.8	78.8	77.8	57.7	52.5	43.6	.....	95	.....	Apr. 1	Nov. 2
Leaf (*a*)	47.2	41.5	56.0	64.9	71.1	76.6	79.9	80.4	80.6	62.4	57.1	47.3	63.8	94	12	Mar. 3	.....
Leakesville	50.0	44.6	59.8	66.0	72.8	79.0	82.0	81.6	81.0	61.9	56.8	50.0	65.5	97	11	Mar. 4	Nov. 11
Leonia	.....	.....	.....	.....	.....	78.7	81.2	80.4	81.6	.....	.....	.....	.....	.....	.....	.....	.....
Logtown	51.0	46.0	62.4	67.4	72.8	79.2	81.4	80.8	80.4	65.9	59.4	50.3	66.4	95	16	.....	.....
Louisville	41.4	35.4	54.8	62.4	68.2	76.6	78.6	79.1	78.5	59.8	53.3	46.1	61.2	98	— 1	Mar. 29	Nov. 2
*Macon	44.4	37.0	55.4	.....	72.1	80.0	82.6	82.2	79.7	58.7	.....	.....	.....	100	.....	Mar. 17	.....
Magnolia	.....	.....	.....	.....	72.0	79.3	.....	.....	.....	.....	.....	[d]50.4	.....	.....	.....	.....	.....
Mayersville	.....	.....	57.0	70.0	71.2	79.0	80.7	81.4	80.6	61.5	55.9	49.6	.....	97	.....	Mar. 21	Nov. 12
*Meridian	44.4	37.9	55.6	64.0	69.8	77.5	80.0	79.7	77.8	60.0	54.6	46.8	62.3	96	6	Mar. 3	Oct. 21
Mico	.....	.....	.....	.....	.....	.....	.....	.....	.....	62.5	51.6	47.0	.....	.....	.....	.....	Nov. 3
Moss Point	50.9	44.0	60.3	68.5	75.2	81.2	83.2	82.4	81.0	66.3	57.4	50.4	66.7	96	12	Mar. 2	Dec. 3
*Natchez	47.8	41.8	59.8	65.4	71.4	79.0	81.1	80.6	80.0	63.8	57.4	51.2	64.9	97	7	Mar. 17	.....
*Okolona	40.8	35.6	54.0	.....	70.5	79.4	80.8	82.0	78.8	58.4	51.5	[d]41.0	.....	100	3	Mar. 21	Nov. 2
Palo Alto	40.8	37.6	54.8	64.7	71.0	78.4	.....	.....	.....	.....	53.0	46.2	.....	.....	2	Apr. 3	Nov. 2
Pontotoc	41.7	36.8	54.7	64.8	68.5	77.4	79.3	80.8	79.0	59.7	54.5	45.4	61.9	98	— 1	Apr. 3	Oct. 9
*Port Gibson	45.2	38.9	57.3	65.6	71.6	79.2	81.8	80.8	78.9	60.0	54.4	49.4	63.6	98	6	Mar. 21	Oct. 21
Rosedale	40.9	37.8	.....	.....	.....	.....	.....	.....	.....	56.0	51.1	43.8	.....	.....	2	Mar. 20	Oct. 8
Stonington (*a*)	47.6	41.6	61.6	67.6	72.2	80.3	81.8	79.3	79.0	63.1	56.6	50.5	65.1	96	8	.....	Oct. 18
Thornton	47.0	.....	58.9	67.7	71.4	78.7	81.8	82.0	80.8	61.8	56.4	47.4	.....	94	.....	.....	Nov. 12
Topton (*e*)	45.9	40.6	59.0	67.7	72.3	80.0	81.5	81.5	81.0	64.0	57.6	50.9	.....	.....	.....	Mar. 17	Oct. 21
University	39.4	34.7	*53.2	[i]63.8	.....	.....	78.9	79.6	.....	.....	52.0	.....	.....	.....	.....	Mar. 21	.....
Vaiden	43.7	37.6	56.0	65.2	71.2	79.8	82.2	82.2	81.1	61.8	55.4	48.5	63.7	105	4	Mar. 21	Oct. 10
*Vicksburg	46.2	40.6	58.6	65.6	70.3	78.2	81.0	80.0	79.6	62.6	56.9	49.8	64.1	97	4	Mar. 17	Nov. 11
Water Valley (*a*)	41.4	36.4	53.7	63.1	68.4	77.2	.....	78.2	76.2	57.6	52.7	44.2	.....	.....	— 3	Mar. 21	Oct. 21
Waynesboro[1]	41.9	37.7	56.0	66.2	72.2	76.8	80.2	80.6	78.6	59.3	50.0	45.4	62.1	100	10	Mar. 21	Nov. 2
*Waynesboro[2]	.....	.....	.....	.....	72.4	78.8	81.8	81.2	81.0	63.0	.....	.....	.....	102	.....	.....	.....
Williamsburg	.....	.....	.....	.....	.....	.....	.....	.....	.....	*61.1	.....	47.4	.....	.....	.....	.....	.....
Woodville	49.0	43.0	60.2	66.4	72.4	79.7	82.1	80.4	79.2	64.4	56.8	50.6	65.4	98	7	Mar. 17	Nov. 12
*Yazoo City	45.2	39.0	59.3	67.8	73.2	81.2	83.6	83.0	80.6	59.2	53.4	47.4	64.4	102	5	Mar. 21	Nov. 2
Missouri.																	
Appleton City	26.8	25.8	44.2	58.8	65.8	74.8	75.7	76.0	72.8	[i]53.0	43.4	33.8	54.2	98	—15	.....	Oct. 9
Arthur (*c*)	22.1	21.2	38.5	55.5	62.6	72.2	73.1	73.8	68.6	47.0	.....	.....	.....	.....	—16	.....	Sept. 30
Bethany	19.4	21.0	38.8	57.0	64.4	72.2	74.1	74.9	72.0	49.8	38.1	[f]30.5	51.0	98	—22	May 12	Sept. 29
Birchtree	30.0	27.4	46.5	59.8	64.4	73.2	74.5	75.0	70.8	50.6	42.3	37.9	54.4	98	—12	.....	Oct. 13
Bluffton (*a*)	28.6	27.3	44.5	61.0	67.7	76.6	77.5	77.9	[f]73.2	50.5	41.8	.....	.....	95	—16	.....	Oct. 9
Brunswick	21.8	21.9	41.1	59.4	66.5	73.7	76.3	76.1	71.5	52.8	39.2	33.2	52.8	97	—20	.....	.....
Carrollton	24.3	24.4	42.4	58.6	65.0	73.0	73.8	75.6	72.4	52.6	41.6	33.6	53.1	95	—13	May 17	Sept. 23
*Columbia	24.6	23.6	43.4	58.8	64.8	73.4	74.5	75.6	73.1	52.4	42.6	35.2	53.5	98	—16	Apr. 3	Sept. 30
Conception	21.2	23.3	40.1	57.8	64.6	70.8	72.7	73.4	70.7	51.8	40.5	32.8	51.6	94	—18	.....	.....
Cowgill (*e*)	23.1	24.8	42.9	60.4	66.4	73.9	75.5	76.6	74.9	54.0	42.7	33.5	54.1	98	—18	.....	Sept. 30
Darksville	25.2	21.6	40.6	57.6	67.3	72.2	73.8	74.9	.....	52.4	43.2	32.2	.....	.....	—18	May 13	Oct. 1
East Lynne (*c*)	20.8	20.4	37.2	53.4	61.0	70.2	71.4	72.2	67.8	45.4	39.0	32.4	49.3	.....	—19	.....	Sept. 30
Edgehill (*e*)	30.6	26.6	44.4	59.0	65.4	73.4	73.0	74.2	71.0	51.6	43.3	39.0	54.3	92	—12	May 14	Sept. 30
Eightmile (*a*)	24.0	24.0	41.2	56.8	62.3	70.1	72.4	72.5	69.5	50.6	41.4	33.2	51.5	93	—18	.....	Sept. 30
Eldon (*a*)	26.0	25.2	42.7	58.6	62.6	72.4	72.7	75.8	73.4	53.6	44.4	36.8	53.7	100	—12	.....	.....
Elmira	21.4	21.8	40.9	58.2	65.0	[j]72.0	*73.2	74.2	71.8	50.1	40.2	30.6	51.6	100	—21	May 17	Sept. 29
Emma (*c*)	23.4	23.4	41.6	59.4	66.4	75.3	76.8	76.8	73.2	54.4	41.4	34.4	53.9	.....	—14	May 12	.....
Fayette	23.4	22.6	42.4	59.0	65.2	73.7	74.2	75.0	73.6	53.6	41.5	34.0	53.2	98	—18	.....	Sept. 30
Fox Creek	25.2	24.4	42.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gallatin (*a*)	21.2	21.8	39.8	57.6	64.3	71.6	73.3	74.7	71.8	51.2	39.0	30.4	51.4	100	—17	.....	Oct. 9
Gayoso (*c*)	31.2	26.6	44.0	57.0	64.6	76.8	76.9	78.6	75.2	.....	43.4	37.7	.....	.....	— 8	.....	Oct. 2
Glasgow	23.2	21.0	40.6	57.9	63.9	73.0	73.7	75.0	72.6	51.4	39.5	31.5	51.9	98	—17	May 17	Sept. 30
Gordonville (*c*)	28.6	24.9	44.2	57.4	62.8	72.5	74.0	73.6	70.6	47.6	42.2	37.6	53.0	.....	—11	May 14	Sept. 30
Gorin (*d*)	19.7	20.0	37.2	54.0	62.6	73.3	74.1	74.4	68.4	47.2	37.8	30.8	50.0	102	—13	May 14	Oct. 9
Grovedale	.....	.....	.....	.....	.....	.....	.....	.....	72.9	50.1	42.0	36.3	.....	.....	.....	May 22	Sept. 30
Halfway	27.2	25.0	44.8	58.6	63.8	72.8	74.0	75.0	72.0	51.0	42.6	36.0	53.6	93	—19	May 22	Sept. 29
*Hannibal	21.0	20.2	39.9	56.1	63.4	73.6	73.6	74.8	71.0	50.2	39.6	33.0	51.4	95	—18	May 14	Sept. 30
Harrisonville	22.8	24.8	44.8	60.3	65.6	72.2	73.2	74.8	74.1	51.6	40.2	31.2	53.0	100	—16	.....	Sept. 30
Hastain	24.8	25.2	44.6	59.3	66.2	74.2	75.3	76.1	73.6	52.3	43.4	37.0	54.3	101	—23	.....	Sept. 30
Houston	26.0	25.1	44.8	56.9	62.0	73.8	75.1	74.5	70.8	51.2	43.8	39.6	53.6	.....	.....	May 22	Sept. 30
Humansville	25.8	.....	.....	58.4	65.0	74.5	75.8	75.4	71.7	52.0	43.4	36.4	.....	96	.....	.....	Sept. 29
Ironton (*a*)	27.9	25.2	44.0	57.5	63.7	72.7	72.4	72.9	70.2	48.4	41.6	37.1	52.8	93	—12	May 23	Sept. 30
Jefferson City	27.4	26.2	45.5	61.0	66.6	74.9	75.6	76.6	73.5	54.9	44.6	35.6	55.2	98	—12	.....	.....
*Kansas City	24.0	24.9	42.2	59.6	65.4	73.0	74.2	75.3	73.2	53.2	41.1	32.6	53.2	96	—12	Mar. 21†	Sept. 30
Kidder	21.4	21.4	39.8	57.5	64.6	72.2	73.9	74.3	72.0	50.2	38.8	29.2	51.3	97	—19	May 12	Sept. 30
Lamar	27.6	25.2	45.1	59.4	65.4	73.8	75.6	76.0	72.1	52.8	43.0	37.0	54.4	93	—16	.....	.....
Langdon	20.0	21.3	38.6	56.4	63.6	69.9	73.4	*72.9	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lebanon	29.6	26.4	45.0	59.4	64.2	72.0	73.4	75.2	72.6	54.3	44.4	37.2	54.5	93	—17	.....	Sept. 30
Lexington	24.4	24.0	42.8	59.4	64.8	71.5	73.2	74.6	72.2	53.1	42.1	33.5	53.0	95	—16	.....	Sept. 30
Liberty	23.6	24.9	43.4	61.3	67.8	74.9	76.0	78.7	74.8	52.8	40.7	32.2	54.3	100	—13	.....	Sept. 30
Linn Creek	27.6	25.4	45.4	61.2	64.8	74.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
McCune (*a*)	20.5	18.6	41.7	56.3	65.8	73.9	73.8	74.2	70.6	48.3	41.0	33.5	51.5	95	—23	.....	Sept. 30
Marblehill	.....	.....	.....	.....	.....	74.4	75.1	75.4	70.4	*51.4	43.1	37.0	.....	.....	.....	.....	Sept. 30
Marceline	.....	.....	.....	.....	.....	.....	.....	.....	70.3	49.6	39.0	30.9	.....	.....	.....	Apr. 2	Sept. 30
Marshall	22.2	22.6	41.2	58.2	65.4	71.4	*73.8	74.6	73.2	51.0	39.8	32.0	52.1	102	—17	.....	Sept. 30
Maryville (*d*)	16.6	18.2	34.6	52.8	60.2	67.6	70.2	69.6	65.8	47.9	34.3	26.5	47.0	100	—20	May 13	Sept. 30
Mexico	21.2	21.3	41.4	57.6	65.5	74.4	74.8	75.8	72.0	50.8	40.8	33.6	52.4	98	—20	May 14	Sept. 30
Miami	32.0	26.0	.....	61.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May17	Sept. 30
Mine La Motte	28.9	26.0	44.5	58.0	63.0	73.1	73.1	73.8	71.0	50.2	43.8	38.0	53.5	92	—12	May 14	Sept. 30
Mineral Springs	.....	.....	.....	.....	.....	.....	73.8	75.2	71.9	54.4	47.0	40.3	.....	.....	.....	.....	Sept. 30

[1] W. S. Davis. [2] Cotton region observer.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.
Missouri—Continued.																	
Mount Vernon	27.2	22.8	41.1	54.2	61.4	70.8	74.1	74.6	71.4	50.2	40.4	34.6	51.9	95	—21	May 23	Sept. 30
Neosho	28.8	25.8	.....	59.0	67.1	73.5	76.7	.....	.....	53.4	44.1	38.4	.....	.....	—18	.....	.....
New Hartford	24.0	15.7	.....	53.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Newhaven (*a*)	25.8	25.2	42.2	57.4	64.0	73.6	74.2	74.9	74.5	55.0	45.3	39.6	54.3	96	— 9	May 22	Oct. 20
New Madrid	34.7	32.6	50.6	63.2	69.2	79.6	78.0	80.5	77.6	56.5	49.4	43.7	59.6	100	— 5	.....	Oct. 1
Oakfield	25.6	24.8	44.2	59.4	65.6	75.4	75.0	76.2	72.1	52.0	41.8	36.8	54.1	96	—14	May 14	Oct. 20
Oakridge (*d*)	29.6	26.0	44.8	59.6	66.3	72.2	[c]76.0	76.0	75.8	50.2	43.6	37.8	54.8	.....	—11	May 22	Oct. 1
Olden	32.4	29.3	47.4	60.6	65.0	73.6	75.5	76.7	72.7	.....	.....	.....	.....	96	.....	.....	Sept. 30
Oregon[1]	22.3	23.8	41.6	59.8	65.9	72.2	75.1	75.4	73.2	53.0	40.7	30.6	52.8	98	—18	May 12	Sept. 30
Oregon[2]	21.0	22.2	40.5	58.5	65.1	70.5	73.4	74.0	71.8	50.5	38.8	29.2	51.3	98	—19	May 12	Sept. 29
Palmyra (*e*)	.....	.....	40.8	58.1	67.6	78.4	77.8	79.8	74.4	51.6	39.9	32.5	.....	98	.....	May 14	.....
Panacea	31.5	30.3	50.5	62.2	61.4	71.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Phillipsburg (*a*)	.....	.....	.....	57.4	63.6	70.2	73.1	75.2	70.7	50.3	42.7	35.8	.....	93	.....	.....	Sept. 30
Pickering (*c*)	17.7	17.8	35.8	51.4	59.3	67.7	70.3	71.3	70.2	48.0	38.7	29.8	48.2	.....	—24	May 12	Sept. 23
Pierce City (*a*)	.....	.....	43.4	58.4	65.5	74.6	75.7	[c]76.3	71.6	.....	.....	.....	.....	100	.....	Apr. 3	.....
Platte River (*c*)	20.6	20.6	37.4	54.9	62.2	71.2	72.8	71.6	64.4	49.1	36.6	28.8	49.2	97	—16	May 17	Sept. 30
Poplarbluff	34.5	29.8	48.2	61.2	67.0	75.4	75.8	77.7	73.7	54.9	45.6	40.0	57.0	97	— 8	.....	Sept. 30
Potosi	25.6	23.1	40.8	55.8	62.7	72.8	73.2	72.5	68.6	46.9	39.4	35.0	51.4	98	—16	May 14	Sept. 30
Princeton (*a*)	20.8	21.1	38.4	53.9	64.0	72.7	73.6	75.9	70.9	50.7	39.9	30.2	51.0	101	—18	May 22	Sept. 30
St. Charles	24.5	23.8	43.8	57.0	64.7	74.9	74.8	76.0	72.9	55.0	43.5	37.8	54.1	97	—14	May 14	Oct. 9
*St. Louis	26.2	25.1	44.1	59.8	66.6	77.1	76.4	77.9	74.1	53.6	43.2	37.0	55.1	96	—12	Mar. 21†	Oct. 20
St. Louis[3]	23.9	22.5	42.4	57.2	63.9	73.8	73.5	74.8	70.8	48.8	40.9	36.0	52.4	94	—16	.....	.....
Sarcoxie (*c*)	26.4	23.8	42.8	58.1	65.2	73.6	74.8	75.8	70.8	48.2	41.0	33.8	52.9	101	—19	May 23	Sept. 30
Sikeston	[m]31.6	27.3	46.9	60.6	67.2	.....	.....	.....	.....	55.8	48.0	[f]44.8	.....	.....	—10	.....	.....
*Springfield	27.6	25.2	44.2	58.5	63.4	72.6	73.0	74.8	71.4	53.0	43.4	36.2	53.6	92	—17	.....	Sept. 30
Stellada	27.0	25.3	43.3	58.8	63.5	71.0	73.2	74.0	72.3	53.5	41.7	35.2	53.2	100	—26	.....	.....
Sublett	18.5	17.8	37.0	54.0	62.6	71.6	72.5	72.5	70.0	48.0	37.8	28.7	49.2	94	—20	May 14	Sept. 30
Trenton	.....	.....	.....	.....	59.8	67.6	69.7	70.7	.....	51.0	38.6	30.6	.....	.....	.....	.....	.....
Unionville	17.8	21.4	37.8	55.4	65.0	73.0	75.0	75.8	70.2	44.3	35.7	27.4	49.9	104	—19	May 14	Sept. 30
Vermont (*a*)	23.5	23.0	41.1	55.8	63.2	71.3	73.1	[d]73.4	72.3	[f]49.8	40.9	33.2	51.7	97	—14	.....	Sept. 30
Warrensburg (*a*)	25.6	26.0	42.8	59.3	64.9	73.8	75.1	78.2	73.4	53.2	42.0	35.5	54.2	100	— 9	.....	Oct. 9
Warrenton	25.4	24.2	43.0	58.4	65.3	74.8	74.1	75.9	71.8	50.8	41.6	35.1	53.4	96	—15	May 13	.....
Willow Springs	.....	24.9	43.4	59.2	64.6	74.4	74.8	77.4	74.4	55.8	46.2	40.4	.....	104	—16	.....	Oct. 20
Zeitonia (*a*)	.....	.....	.....	.....	.....	.....	.....	73.2	70.2	48.1	41.6	37.3	.....	.....	.....	.....	Sept. 30
Montana.																	
Bigtimber	.....	.....	.....	.....	.....	59.9	67.7	67.0	55.8	49.7	35.2	30.3	.....	97	.....	June 8	Sept. 5
Billings	17.2	17.3	36.6	59.0	58.4	60.9	70.0	71.8	61.4	52.2	35.4	25.6	47.2	102	—32	May 19	Sept. 6
Boulder	17.2	22.5	29.8	44.5	49.2	52.9	62.0	61.8	50.2	43.4	.....	.....	.....	89	.....	June 10	Sept. 6
Bozeman	19.6	19.2	31.2	45.0	50.9	54.8	64.8	62.8	51.5	43.7	28.9	21.1	41.1	90	—22	June 9	Aug. 9
Butte	18.4	22.2	28.4	42.4	47.8	51.8	61.0	63.2	49.0	45.7	29.2	20.6	40.0	87	—20	June 16	Sept. 6
Choteau	14.0	19.6	32.0	48.0	52.2	56.7	64.6	63.5	51.8	50.4	35.6	26.6	42.9	96	—26	June 9	Sept. 6
Cokedale	18.6	23.9	30.9	45.5	49.6	54.4	63.2	[h]64.6	51.2	45.7	31.6	26.8	42.2	95	—20	July 10	Aug. 9
Columbia Falls	20.4	26.0	32.4	45.5	52.7	54.8	62.9	61.6	.....	42.8	30.5	23.5	.....	97	—20	June 13	Aug. 9
Deerlodge	18.0	21.6	30.2	44.8	48.8	.....	.....	.....	.....	.....	30.0	21.0	.....	.....	—33	June 10	.....
Dillon	.....	.....	.....	.....	.....	.....	.....	.....	.....	43.9	28.2	21.4	.....	.....	.....	.....	.....
Fort Benton	22.9	22.2	35.2	46.8	53.4	57.5	65.4	65.1	54.0	46.5	32.2	26.4	44.0	98	—45	June 9	Sept. 7
Fort Custer	9.8	9.9	29.2	49.6	54.1	58.6	70.8	71.3	58.8	49.3	33.6	24.2	43.3	101	—37	June 9	Sept. 7
Fort Keogh	8.6	10.0	32.0	48.5	54.3	61.0	70.0	70.0	56.8	45.0	27.9	23.0	42.3	103	—37	June 9	Sept. 7
Fort Logan	15.0	19.0	27.8	40.4	46.3	52.4	60.1	58.4	47.4	41.4	30.4	18.8	38.1	92	—28	July 20	Aug. 10
Fort Missoula	16.4	24.0	32.6	44.2	50.3	54.6	62.8	62.5	51.2	43.6	31.2	22.0	41.3	94	—20	June 16	Sept. 6
Glasgow	0.2	8.0	28.2	50.0	54.2	60.2	72.6	66.3	53.6	43.4	20.7	13.8	39.3	103	—35	May 19	Sept. 6
Glendive	4.6	10.7	30.0	51.4	57.0	63.1	72.6	70.7	58.6	45.9	26.6	21.6	42.7	107	—30	May 20	Sept. 22
Grantsdale	.....	.....	.....	.....	.....	.....	65.4	63.4	44.5	39.7	33.4	.....	.....	.....	.....	.....	Aug. 16
Great Falls	19.8	23.0	34.6	49.4	52.0	59.3	66.6	66.4	56.4	55.4	37.8	28.0	45.7	97	—27	May 29	Aug. 14
*Havre	1.3	10.5	30.4	47.8	52.6	58.2	65.5	64.2	52.6	45.0	28.1	21.2	39.8	96	—34	May 29	Aug. 14
*Helena	17.2	20.8	32.4	47.4	52.0	56.6	65.7	66.1	52.6	47.3	32.4	23.6	42.8	94	—17	May 11	Sept. 21
Hogan	16.9	20.6	30.6	47.0	50.4	53.4	63.0	60.2	50.2	49.0	32.3	26.5	41.7	98	—23	June 10	Sept. 6
Kipp	10.0	16.1	32.2	.....	.....	53.7	60.2	56.9	46.4	42.4	28.8	20.0	.....	95	—40	June 16	Aug. 10
Libby	.....	.....	.....	.....	.....	.....	68.0	63.2	52.5	48.0	36.2	25.8	.....	.....	.....	June 14	Aug. 14
Livingston	.....	.....	.....	.....	.....	.....	.....	.....	.....	49.4	33.3	26.8	.....	.....	.....	.....	.....
Manhattan	.....	.....	.....	.....	50.8	56.5	62.6	62.2	50.5	41.8	30.2	19.6	.....	95	.....	June 12	Aug. 9
Martinsdale	18.2	21.0	32.2	47.2	51.1	56.8	63.8	61.9	50.4	45.4	33.0	24.1	42.1	100	—26	June 10	Aug. 10
Marysville	18.4	20.8	28.2	44.0	48.0	51.9	61.7	63.4	48.9	46.0	29.8	22.9	40.3	88	—20	June 9	Sept. 5
*Miles City	7.4	11.9	32.3	51.0	54.8	60.6	71.2	69.2	58.0	47.5	28.9	23.0	43.0	101	—32	Apr. 16	Sept. 7
Musselshell	.....	.....	32.0	46.8	53.0	54.8	70.8	.....	.....	.....	.....	.....	.....	.....	.....	June 16	Aug. 9
Pony	21.0	24.0	[i]28.6	47.3	55.2	.....	.....	65.6	56.6	.....	.....	.....	.....	.....	.....	May 16	Sept. 20
Poplar	.....	.....	.....	.....	52.6	60.8	70.7	65.8	52.0	39.6	.....	22.3	.....	103	.....	June 8	Sept. 7
Radersburg	.....	.....	.....	.....	.....	.....	.....	.....	63.6	.....	34.5	29.8	.....	.....	.....	.....	.....
Redlodge	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30.0	21.8	.....	.....	.....	.....	.....
Sun River	.....	.....	30.8	45.4	52.0	57.8	63.7	.....	52.1	[c]45.9	32.2	[d]26.2	.....	105	.....	June 9	Aug. 25
Toston	.....	.....	.....	.....	.....	.....	.....	.....	54.1	46.2	31.7	27.8	.....	.....	.....	.....	Sept. 15
Troy	.....	.....	28.5	47.5	57.4	66.9	67.8	62.6	51.0	[e]46.0	35.2	28.3	.....	102	.....	May 30	Aug. 14
Utica	18.8	20.7	30.2	48.4	51.8	55.6	63.8	[f]66.0	[h]50.7	46.2	32.3	25.5	42.5	101	—57	June 9	Sept. 11
Virginia City	19.0	23.6	28.9	43.8	49.0	53.0	62.8	63.2	51.0	44.7	28.4	20.8	40.7	89	—15	June 17	Sept. 6
White Sulphur Springs	18.4	20.3	28.2	42.6	49.6	53.5	58.6	60.6	51.6	44.2	31.0	24.8	40.3	90	—31	July 8	Aug. 4
Wibaux	10.4	18.2	34.1	52.2	54.7	59.5	69.6	69.8	60.6	47.1	30.0	24.2	44.2	106	—35	June 2	Sept. 7
Yale	.....	.....	.....	44.4	50.0	54.1	62.6	63.1	51.5	44.4	31.7	25.6	.....	98	.....	June 11	Aug. 10
Nebraska.																	
Agee (*a*)	12.0	16.3	31.6	54.8	60.0	66.4	73.1	71.0	68.0	46.7	32.6	27.4	46.7	103	—32	May 21	Oct. 19
Albion	15.8	20.7	37.0	55.0	60.4	69.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 21	.....
Amelia (*a*)	.....	.....	.....	.....	.....	67.2	74.5	.....	.....	.....	35.6	29.6	.....	.....	.....	.....	.....
Ansley	13.0	19.7	36.3	55.2	59.4	66.5	71.0	71.7	66.4	46.4	33.8	28.3	47.7	102	—24	May 20	Sept. 22
Arborville (*a*)	17.5	21.0	34.8	55.7	63.7	70.6	73.8	75.4	70.9	48.6	36.6	29.9	49.9	106	—20	May 11	Sept. 22

[1] W. Kaucher. [2] S. M. Ruley. [3] F. W. Duenckel.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.
Nebraska—Continued.																	
Arcadia							[f]72.6	73.2									
Ashland	17.9	22.1	38.3	57.6	63.8	70.5	73.8	73.8	71.5	50.0	36.7	30.1	50.5	104	—37	Apr. 4	Sept. 30
Ashton					62.0	68.1	74.2	73.2	69.4	49.0	34.3	27.8		102		May 11	Sept. 30
Auburn (a)	20.7	21.8	40.2	58.6	64.3	70.5	75.1	74.6	71.4	51.5	39.1	31.5	51.6	108	—23	May 12	Sept. 30
Aurora (a)	19.4	21.0	35.3	58.0	62.7	69.0	74.4	74.8	70.2	48.1	36.7	30.1	50.0	104	—23	Apr. 2	Oct. 19
Bancroft		[c]20.8	[d]34.1														
Bassett	13.8	18.4	35.5	56.0	63.8	68.3	70.6	71.0	65.3	46.5	27.8	27.2	47.0	103	—27	May 31	Sept. 22
Beatrice	19.7	20.6	39.2	56.1	58.9	71.2	75.9	75.1	72.2	48.8	38.3	29.2	50.4	105	—18	May 11	Sept. 30
Beaver City	24.4	23.1	40.3	57.0	62.8	68.6	72.0	74.5	72.0	49.7	38.6	31.3	51.2	109	—19	May 11	Sept. 29
Benkelman (a)	25.2	19.8	39.4	50.9	63.6	68.6	77.8	74.9	66.6	51.6	35.8	29.1	50.3	104	—22	Apr. 14	Sept. 22
Bluehill (a)	22.5	23.3	39.6	57.4	64.6	70.4	73.8	75.1	70.2	50.2	37.8	31.4	51.4	102	—25	May 10	Sept. 22
Bratton (a)	19.2	21.9	38.2	57.8	63.4	71.6	75.4	74.1	72.0	49.5	36.5	28.8	50.7	104	—20	May 12	Sept. 30
Brokenbow (a)	19.4	20.7	34.8	53.8	65.1	71.4	76.6	72.8	68.2	49.0	34.7	29.8	49.7	110	—22	Apr. 22	Sept. 29
Callaway	22.9	20.7	35.8	53.6	59.3	68.4	72.3	70.9	65.8	46.2	34.6	27.3	48.2	102	—22	May 11	Sept. 23
Central City (e)	19.5	22.4	41.3	59.8	67.2	73.2	77.9	76.9	74.8	53.2	40.4	30.8	53.1	100	—20	Apr. 1	Oct. 8
Chadron (a)	19.8	16.6	33.6			66.8	73.4										
Chester (a)	19.6	21.7	38.8	61.0	64.1	70.4	75.6	73.8	71.7	49.0	36.0	29.9	51.0	103	—22	May 13	Sept. 30
Columbus	19.3	21.7	38.8	56.9	62.5	68.4	71.2	72.8	68.4	48.6	36.7	30.1	49.6	99	—21	May 21	Sept. 30
Cortland	17.6	21.3	36.4	56.6	62.8	69.0	75.0										
Creighton	11.2	17.7	31.4	54.4	62.3	65.1	71.2	71.2	65.3	45.4	32.4	25.0	46.0	102	—26	May 21	Sept. 23
Crete	19.0	22.0	38.8	56.9	62.7	69.2	75.3	75.6	71.6	50.4	37.4	31.0	50.8	102	—20	May 12	Sept. 30
Curtis	24.8	24.1	41.2	56.0	63.8	69.4	74.3	74.4	68.9	48.1	35.3	29.4	50.8	104	—24	May 20	Sept. 23
David City (a)	13.8	20.0	35.8	57.0	62.4	67.8	73.2	71.5	68.0	47.4	36.2	27.9				Apr. 2	Sept. 29
Divide (a)				[c]59.8	63.0	68.5	74.2	74.0	70.3		33.5	30.1					
Dunning (a)	22.0	19.8	35.1	53.7	61.9	67.0	74.0	72.9	69.5	51.5	34.2	30.0	49.3	102	—25	Apr. 6	Sept. 23
Edgar (a)	18.6	19.0	38.7	60.0	66.2	74.5	79.1	78.4	73.6	51.1	36.1	30.0	52.1	106	—26	Apr. 2	Oct. 19
Ericson	15.8	16.8	35.1	56.1	63.9	73.4	73.4	78.0	75.6	47.5		28.2		103	—24	Apr. 4	Oct. 8
Fairbury								[d]75.8	73.3	53.6	37.4	30.8					Sept. 30
Fairmont (a)	18.4	19.3	37.8	58.1	65.6	72.1	76.4	73.8	70.9	49.7	38.3	31.3	51.0	101	—22	Apr. 2	Sept. 30
Fontanelle	16.1	20.1	35.8	56.7	63.0	69.1	74.2	73.5								May 21	
Fort Robinson	22.4	22.1	33.0	51.9	50.4	61.6	68.9	71.0	64.4	49.0	32.4	28.8	46.3	101	—26	May 20	Oct. 15
Franklin	23.2	22.1	43.5	[c]57.8	64.2	72.2			[c]68.2	50.1	35.6	28.0			—20	May 12	Sept. 7
Geneva	19.0	22.2	39.1	57.8	64.3	70.1	74.8	75.4	69.7	49.2	37.0	29.4	50.7	103	—20	May 20	Sept. 29
Genoa	16.3	19.5	36.2	57.0	63.4	68.6	74.9	74.2	68.8	48.3	34.7	27.6	49.1	103	—22	Apr. 2	Sept. 30
Gering	23.3	19.6	34.0	52.2	57.0	63.5	70.2	72.4	63.2	46.5	32.0	24.6	46.5	102	—25	May 19	Sept. 22
Gibbon	20.4	22.2	39.1	57.9	64.1			73.8	70.2	49.4	36.1	29.7			—21	May 12	Sept. 23
Glenwood	10.4	13.4	29.1	50.0	54.5												
Gothenburg	24.4	24.4	41.9	57.8	62.2	68.8	74.2	75.0	67.4	53.7	40.2	33.2	51.9	106	—21	Apr. 22	
Grand Island (a)	22.0	24.2	39.2	59.0	65.9	73.7	76.9	77.8	72.2	52.1	38.3	32.7	52.8	110	—23	Apr. 2	Oct. 8
Greeley	17.5	20.3	36.7	57.9	65.2											Apr. 1	Sept. 23
Haigler (a)			38.5		62.8	70.7	71.1		66.0	50.2	35.1	28.0				May 10	Sept. 29
Hartington	12.9	17.9	33.4	54.4	60.3	66.3	70.6	69.8	65.6	44.8	32.4	23.1	46.0	99	—26	May 21	Sept. 23
Harvard (a)	17.5	20.4	36.6	57.2	64.3	70.4	75.0	74.2	69.3	47.8	35.6	28.3	49.7	104	—22	Apr. 2	Sept. 29
Hastings (a)	17.3	18.7		52.6	59.9		69.8	71.6	66.2	45.7	33.4	26.3			—26	Apr. 2	Sept. 29
Hay Springs	17.0	15.9	29.5	50.0	53.9	60.1	69.3	70.3	62.3	45.8	29.3	24.1	44.0	105	—32	May 20	Sept. 21
Hebron	20.0	22.5	38.7	58.4	64.4	70.5	75.2	74.8	70.9	49.9	37.8	30.8	51.2	103	—20	May 12	Sept. 29
Hickman (a)	19.9	23.6	39.4	57.2	63.9		79.6	79.4	76.8	52.2	38.2	31.6			—20	Apr. 18	
Imperial	20.0	19.1	37.7	54.5	59.9	67.0	70.8	71.4	66.0	49.2	35.5	27.4	48.2	100	—22	May 16	Sept. 22
Indianola (c)	24.0	24.2	39.7	56.2	64.4	72.2	74.0	75.8	69.8	50.2	36.7	31.4	51.6	105	—20	Apr. 10	Sept. 23
Kearney (a)	22.9	22.4	40.0	60.0	64.8	71.8	75.4		74.0	48.7	36.6	29.3			—20	Apr. 5	Oct. 15
Kennedy	20.7	20.4	34.2	53.4	56.5	66.7	70.7	71.7	64.7	46.1	31.4	26.6	46.9	108	—18	May 22	Sept. 21
Kimball	[c]24.0	20.5	33.5	50.1	55.2	62.2	67.8	70.2	62.0	46.6	33.1	26.0	45.9	97	—23	May 16	Sept. 21
Kirkwood (a)											31.2	26.0					
Lexington	20.9	20.5	35.0	52.8	54.6	64.4			[c]63.4		32.2	29.6			—18	May 25	Sept. 21
Lincoln	19.6	22.4	38.0	57.3	63.9	69.8	74.8	74.6	72.2	50.4	37.8	30.3	50.9	102	—18	Apr. 2	Sept. 30
Lodgepole	21.8	20.9	35.6	51.4	56.0	[c]63.8	67.2	71.7	[g]60.6					103		May 19	Sept. 21
Loup (a)									72.3	52.0		30.3					Sept. 30
Lynch (a)	15.7	18.4	33.6	56.6	62.1	66.9	74.7	73.5	64.9	45.2	32.9	26.3	47.6	105	—23	Apr. 13	Sept. 23
McCook (a)	25.6	25.7	39.8	55.4	65.0	70.7	72.7	75.7	69.6	53.4	33.6	32.4	51.6	102	—18	Apr. 9	Sept. 22
Madison (a)				57.0	62.0	68.5	76.7	71.9	64.8	45.0	31.7	24.8		103		Apr. 13	Sept. 27
Madrid (c)	20.6	19.3	36.0	52.7	59.8	66.6	71.3	72.5	[c]66.1	49.4	34.2	[d]26.8	47.9	107	—25	May 11	Sept. 22
Minden (a)	16.9	19.3	35.9	55.6	62.0	67.4	71.2	72.2	68.2	47.5	35.8	29.3	48.4	101	—22	May 11	Sept. 29
Nebraska City (a)	15.8	19.2	34.8	54.6	61.1	68.1	71.0	71.2	67.6					100		Apr. 3	Sept. 30
Nemaha City (a)	19.9	23.2	40.3	57.0	64.0	72.0	75.8	72.8	72.7	47.8	36.4	29.2	50.9	101	—18	Apr. 3	Sept. 30
Nesbit					63.8	71.0	77.9	77.6	71.9	53.5	40.3	27.7		104		May 20	Sept. 29
Norfolk	15.5	18.8	35.5	55.8	61.0	[m]64.0	73.9	74.0	73.4	47.1	33.8	26.7	48.3	106	—23	May 19	Oct. 15
North Loup	17.2	18.7	36.6	54.2	61.0	68.0	72.2	70.8	64.4	46.8	33.6	28.0	47.6	100	—23	May 20	Sept. 22
*North Platte	21.3	20.6	36.2	53.4	58.4	65.3	69.9	71.7	67.4	48.2	35.2	29.8	48.1	101	—23	May 12	Sept. 23
Oakdale	13.1	18.1	33.2	55.5	59.9	66.0	71.8	71.7	65.9	46.2	32.4	25.8	46.6	101	—24	May 21	Sept. 23
Odell (c)	19.7	24.4	40.1	59.5	66.2	73.5	76.7	77.4	73.7	51.3	38.3	30.7	52.6	102	—20	May 11	Sept. 30
*Omaha	18.6	21.8	37.4	58.0	64.2	70.4	74.3	74.4	71.2	50.4	36.8	29.4	50.6	102	—20	Apr. 2†	Sept. 30
O'Neill (a)	13.1	18.2	33.5	55.8	60.4	66.6	72.5	71.8	67.1	46.0	33.1	25.8	47.0	105	—28	Apr. 2	Sept. 30
Ord								73.9	69.7	49.4	36.2	31.5					Sept. 30
Palmer (a)	14.2	16.8	32.4	55.0	60.9	67.4	74.2	73.8	65.6	44.4	31.3	26.1	46.8	106	—24	May 17	Sept. 23
Plattsmouth (a)	20.4	23.6	40.4	61.4	62.0	76.2	79.8	78.3	75.4	51.8	41.4			103		Apr. 1	Oct. 23
Potter (a)						[d]65.2	70.3	72.9	65.2	46.0	33.5	24.6					
Ravenna	19.4	21.3	38.0	56.4	61.0	67.2	70.4	72.5	69.0	48.2	35.4	29.5	49.0	104	—20	May 12	Sept. 29
Redcloud (a)	20.7	23.5	40.8	58.3	67.2	76.0	76.5	76.7	73.8	49.6	38.6	30.2	52.7	106	—19	May 13	Oct. 16
Republican (a)	21.2	21.9	38.4	60.9					71.0	46.4	38.6	30.6			—23	Apr. 6	Sept. 23
Rulo (a)	24.6	23.0	43.3	58.6	66.6	73.7	77.4		72.9	52.0	41.8	32.7			—15	Mar. 16	Oct. 8
St. Paul							73.4	73.4	69.4	49.2	36.5	30.0					
Salem (a)	22.0	24.7	40.7	57.5	64.0	68.8	76.0	75.4	74.0	50.1	40.4	31.8	52.1	100	—14	Apr. 3	Sept. 30
Santee Agency	13.9	18.6	34.5	58.2	63.1	68.5	74.8	75.4	68.6	47.9	33.7	26.2	48.6	106	—27	May 20	Sept. 27
Seneca (a)	20.6	20.2		48.1	57.8	65.2	72.7	74.0	63.4	47.7	32.0	26.6		104	—25	May 30	Sept. 22
Seward (s)	17.6	25.4	37.6	62.0	69.4	74.2	74.8	77.4	72.2	50.8	39.4	31.4	52.7	101	—28	Apr. 4	Oct. 8
Springfield (a)					65.0	70.5	74.2	72.9	71.6	49.7	36.2	28.8					Sept. 27
Springview	15.6	18.5	32.5	55.4	[e]59.4	64.2	71.2	71.3	65.2	45.1	32.0	27.1	46.5	108	—28	May 19	Sept. 7
Stanton (a)	12.2	17.9	34.0	55.4	60.6	66.5	72.0	70.9	66.8	47.0	33.1	26.6	47.0	102	—26	May 21	Sept. 30

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

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.		
Nebraska—Continued.																	
State Farm	21.5	22.4	39.5	58.2	64.4	70.6	75.0	75.0	74.2	49.6	38.6	30.2	51.6	.....	.....	.....	.....
Strang (*a*)	23.2	23.9	39.9	62.8	69.6	75.8	.....	78.8	75.4	53.7	39.8	31.4	.....	.....	—20	Apr. 2	Oct. 8
Superior (*c*)	22.6	21.3	36.3	58.7	69.6	75.6	78.4	75.8	72.4	49.8	37.2	33.2	52.6	104	—25	Apr. 2	Sept. 30
Sutton	18.1	19.1	36.9	54.6	59.0	65.8	.....	70.6	67.2	47.4	35.8	.....	.....	.....	.....	May 21	Sept. 23
Tecumseh	19.4	22.2	37.4	55.5	63.5	69.8	74.0	73.6	71.2	49.7	36.8	29.6	50.2	104	—18	May 21	Sept. 23
Tekamah	16.0	19.8	35.8	57.1	63.3	.....	72.6	73.3	69.4	47.9	34.9	26.1	.....	104	—24	May 21	Sept. 23
Thedford (*a*)	.....	.....	.....	.....	.....	68.4	77.2	73.3	64.2	44.8	33.0	27.4	.....	.....	.....	.....	Sept. 23
Turlington	18.1	21.2	37.6	56.4	64.6	70.4	74.6	73.6	71.4	48.7	34.8	27.2	49.9	110	—22	May 11	Sept. 29
Weeping Water (*a*)	15.1	18.7	34.2	54.3	59.7	66.6	69.4	69.6	69.2	45.9	34.2	25.6	46.9	103	—25	May 22	Sept. 26
Weston (*c*)	.....	.....	.....	51.8	69.4	78.2	78.7	76.4	76.2	55.8	[1]35.2	.....	.....	104	.....	Apr. 3	Sept. 30
Wilber (*a*)	22.5	24.4	41.8	59.5	64.3	70.6	76.0	74.8	72.7	51.2	40.4	31.9	52.5	104	—18	May 12	Sept. 23
Wilsonville (*a*)	23.9	.....	36.8	54.5	62.4	68.9	73.4	72.9	67.9	48.0	37.3	30.6	.....	104	.....	Apr. 6	Sept. 22
York (*a*)	18.6	24.1	37.2	57.7	65.4	70.9	77.6	77.4	.....	49.4	36.8	32.7	.....	.....	—18	Apr. 2	.....
Nevada.																	
Austin	25.0	29.9	34.6	45.4	52.0	59.2	65.7	67.7	57.1	48.0	32.7	27.0	45.4	93	— 7	June 16	Sept. 20
Battle Mountain (*a*)	26.7	28.1	41.7	54.9	61.6	66.7	71.2	71.0	58.5	49.2	38.0	27.2	49.6	101	—12	May 5	Sept. 20
Belmont	21.1	27.2	32.2	43.1	51.0	58.8	66.2	66.6	56.4	40.7	27.4	24.8	43.0	91	— 6	June 15	Aug. 25
Beowawe (*a*)	23.5	24.5	39.2	50.5	58.5	64.5	73.4	71.8	60.9	50.3	32.6	24.0	47.8	103	—21	May 31	Sept. 14
Candelaria	.....	40.2	44.6	52.9	60.4	67.2	74.6	75.4	65.4	57.9	42.6	35.1	.....	100	.....	May 28	Sept. 21
Carlin (*a*)	20.1	18.9	29.2	44.7	55.9	70.6	62.8	63.9	50.4	40.4	28.2	17.8	41.9	95	—30	Apr. 6	Sept. 13
*Carson City	29.8	35.9	41.5	47.2	54.2	60.7	66.6	65.2	54.8	50.2	39.6	33.8	48.3	95	— 4	June 18	Sept. 15
Carson City [1]	28.1	35.1	40.6	47.4	53.6	59.7	64.9	65.0	55.2	49.7	37.8	32.6	47.5	98	— 6	June 18	Sept. 15
Downeyville	34.8	42.5	46.4	56.1	65.2	72.0	78.6	79.0	67.9	58.9	42.8	34.8	56.6	111	2	June 28	Sept. 20
Edgewood	.....	32.6	32.4	40.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elko (*g*)	21.7	22.2	32.6	47.0	54.4	64.6	72.0	70.6	57.5	45.6	30.6	21.4	45.0	.....	.....	.....	.....
Elko (near)	23.8	24.6	36.2	41.8	46.2	55.8	65.5	55.4	55.0	43.6	30.4	20.0	42.4	102	—29	June 15	Sept. 20
Ely	22.2	26.6	31.2	42.7	52.0	56.7	64.6	65.8	55.3	44.2	30.0	22.2	42.8	95	—19	June 18	Sept. 29
Empire Ranch	18.6	23.5	34.4	50.0	60.7	69.4	80.4	75.8	66.2	45.6	27.8	23.2	48.0	110	—20	May 31	Sept. 21
Fenelon (*a*)	19.0	24.1	31.3	47.9	51.6	57.5	66.2	67.7	55.0	44.6	26.2	20.4	42.6	99	—22	Apr. 5	Sept. 21
Genoa	23.8	36.2	41.0	46.2	51.0	56.0	63.8	70.3	60.3	51.6	44.0	32.0	48.0	97	— 3	June 11	Sept. 21
Golconda (*a*)	29.0	29.3	37.7	50.0	58.0	67.2	72.3	72.4	58.7	50.0	32.9	26.1	48.6	100	— 8	May 28	Sept. 21
Goldhill	31.4	39.4	46.8	49.2	54.8	63.7	.....	.....	.....	.....	.....	34.1	.....	.....	— 4	June 1	.....
Halleck (*a*)	17.9	19.7	28.7	43.3	48.9	56.2	67.3	66.3	50.7	38.4	27.5	20.2	40.4	102	—31	Mar. 17	Sept. 22
Hamilton	.....	26.4	.....	43.0	50.4	54.2	66.7	.....	*58.6	50.9	32.7	26.0	.....	.....	—16	June 2	Sept. 13
Hawthorne (*g*) [2]	31.1	34.8	42.3	51.5	59.9	67.6	75.1	78.0	67.2	54.0	41.8	35.1	53.2	.....	.....	.....	.....
Hawthorne [3]	32.4	36.8	41.8	50.3	58.4	64.3	72.2	73.5	62.2	53.2	40.8	35.0	51.8	102	3	Mar. 1	Oct. 31
Hot Springs (*a*)	29.4	30.4	39.7	59.5	65.2	74.2	75.9	79.2	62.5	55.8	37.7	34.1	53.6	102	— 5	Apr. 2	Oct. 22
Humboldt (*a*)	27.5	32.3	36.5	57.1	62.0	69.1	69.5	71.3	56.0	49.6	39.0	28.2	49.8	98	—17	June 10	Sept. 20
Los Vegas	.....	.....	.....	.....	.....	.....	78.1	78.4	69.6	59.2	45.0	35.6	.....	.....	.....	Apr. 15	Nov. 1
Lowers Ranch	30.2	36.8	39.8	48.2	53.4	60.2	67.0	67.8	57.6	52.8	40.2	34.2	49.0	99	0	May 28	Sept. 21
Lovelock (*a*)	32.9	37.7	47.6	60.8	64.9	71.2	76.4	76.4	70.2	53.2	44.1	33.7	55.8	104	— 2	Mar. 1	Nov. 1
Mill City (*a*)	27.8	30.9	36.7	46.2	54.9	65.0	71.0	69.6	56.8	50.5	35.4	26.8	47.6	109	—10	Apr. 13	Sept. 21
Osceola	26.8	32.4	37.1	48.3	55.2	59.8	71.6	73.6	63.4	49.8	35.2	28.4	48.5	96	— 4	May 26	Sept. 20
Palisade (*a*)	19.8	21.3	31.3	46.8	58.9	55.6	70.9	77.6	70.0	46.3	34.3	29.8	46.9	104	—12	Apr. 5	Sept. 14
Palmetto	25.8	33.3	37.2	45.0	53.0	58.0	65.5	65.4	57.2	49.0	34.8	27.4	46.0	97	—11	June 1	Sept. 22
Paradise Valley	25.4	29.6	39.6	49.0	55.6	61.3	67.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Reno (*g*)	29.9	35.8	41.4	48.0	61.1	72.9	78.2	74.6	58.5	53.3	40.0	32.2	52.2	.....	.....	.....	.....
Reno, State University	28.8	.....	40.5	47.6	53.9	61.0	67.2	66.5	57.0	.....	38.0	31.2	.....	97	.....	May 28	Sept. 13
St. Clair	28.6	31.2	40.7	50.8	59.6	64.3	70.3	69.3	58.2	52.3	37.0	29.8	49.3	96	1	Apr. 23	Sept. 22
St. Thomas	.....	.....	.....	66.0	71.6	83.9	87.6	88.4	78.2	67.7	51.6	39.2	.....	112	.....	Apr. 6	Nov. 1
San Antonio	.....	.....	.....	.....	.....	.....	.....	.....	60.0	51.8	[4]34.2	[4]27.0	.....	.....	.....	May 25	Aug. 20
Silverpeak	.....	.....	.....	.....	.....	.....	.....	77.2	67.0	55.3	[4]41.0	29.1	.....	.....	.....	.....	Sept. 21
Stofiel	18.6	20.5	22.2	38.4	47.0	50.2	59.4	61.8	52.2	44.8	28.6	17.8	38.5	96	—35	June 18	Sept. 20
Sunnyside	24.8	30.2	40.2	45.6	55.7	66.6	*76.9	76.5	60.2	49.4	34.6	.....	.....	105	.....	June 10	Aug. 27
Tecoma (*a*)	23.9	29.2	37.2	50.0	60.7	65.0	76.7	76.1	64.3	51.5	31.7	23.7	49.2	104	—12	May —	Oct. 29
Toano (*a*)	20.1	22.8	32.2	47.0	53.5	57.5	71.3	71.0	58.6	44.8	29.6	21.0	44.1	100	—16	May 9	Sept. 20
Tuscarora	.....	.....	.....	.....	.....	.....	.....	.....	.....	58.2	42.8	28.1	.....	.....	.....	.....	.....
Tybo	24.7	31.2	37.4	46.9	56.5	62.1	70.8	70.8	60.4	48.6	33.7	25.4	47.4	97	— 2	June 17	Sept. 22
Verdi (*a*)	28.5	35.3	38.8	48.5	54.1	63.2	67.7	67.0	54.5	48.0	38.8	31.4	48.0	106	— 5	Apr. 22	Sept. 14
Wadsworth (*a*)	28.6	34.4	40.0	47.0	59.7	62.2	75.9	72.4	58.5	42.4	31.7	26.0	48.2	104	2	Apr. 5	Sept. 21
Wells	19.8	20.6	30.7	42.6	53.7	58.2	65.2	65.1	56.1	43.8	32.4	21.6	42.5	98	—26	June 16	Aug. 8
*Winnemucca	24.6	28.6	38.8	47.9	55.6	61.9	68.9	69.8	57.0	50.8	34.6	26.8	47.1	98	—14	May 29	Sept. 14
Yerington	32.2	38.8	42.3	50.1	56.4	62.0	.....	.....	56.9	49.6	35.6	.....	.....	.....	.....	June 16	Sept. 14
New Hampshire.																	
Alstead (*f*)	17.6	15.9	26.0	42.6	60.3	70.1	67.9	67.8	60.8	42.2	35.9	25.0	44.3	87	—20	May 17	Sept. 14
Berlin Mills	14.4	13.6	22.6	39.8	55.4	65.2	63.0	61.6	57.2	40.6	34.6	23.6	41.0	92	—23	May 24	Sept. 14
Bethlehem	17.0	14.0	22.8	40.4	56.8	66.6	65.0	63.8	58.1	39.9	34.9	24.3	42.0	92	—22	May 22	Sept. 14
Brookline (*a*)	21.3	19.1	31.3	45.1	60.5	68.7	70.5	68.6	62.4	45.8	41.2	34.7	47.4	97	—16	May 17	Oct. 2
Concord	20.3	17.8	29.7	44.5	60.3	68.5	66.8	66.1	60.5	44.6	39.0	28.8	45.6	95	—15	May 14	Sept. 15
Dublin	.....	.....	.....	.....	.....	.....	64.1	65.8	61.8	42.4	38.4	30.2	.....	.....	.....	.....	Oct. 9
Durham	.....	.....	.....	.....	.....	.....	.....	.....	61.9	45.6	39.6	30.6	.....	.....	.....	.....	.....
Grafton	18.0	15.1	26.8	42.7	.....	.....	64.3	64.4	59.6	41.4	36.4	25.1	.....	.....	—20	May 14	Sept. 14
Hanover	17.3	15.0	26.2	42.0	57.9	66.6	65.7	65.0	60.8	43.0	36.9	26.5	43.7	88	—17	May 17	Sept. 15
Keene	17.9	14.8	28.0	43.3	57.6	66.8	64.9	65.5	59.2	42.2	38.1	26.6	43.7	93	—15	May 23	Sept. 15
Lancaster	18.8	15.6	25.1	43.2	59.2	71.7	67.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Littleton	17.2	12.8	22.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nashua	20.0	18.9	31.8	45.2	60.0	68.4	67.8	68.8	63.2	44.8	39.6	29.0	46.5	96	—10	May 19	Sept. 16
Newton	22.0	19.5	31.2	43.4	58.0	66.8	66.6	67.2	61.5	44.1	41.2	30.4	46.0	95	—12	May 19	Oct. 11
North Conway	17.4	16.0	26.6	42.2	58.0	66.2	65.9	65.4	62.2	42.8	38.1	27.2	44.0	96	—20	May 23	Sept. 15
Peterboro	18.0	15.2	28.4	41.8	57.2	66.4	65.0	64.8	60.6	41.8	37.7	26.4	43.6	93	—22	May 19	Sept. 15
Plymouth	15.1	14.5	25.4	41.1	57.6	68.1	66.2	65.1	58.4	40.1	35.1	26.5	42.8	97	—20	May 17	Sept. 15
Sanbornton	18.2	16.2	26.4	41.9	56.9	65.8	64.5	64.2	59.3	41.5	37.4	26.3	43.2	89	—17	May 14	Oct. 9
Stratford	18.4	16.2	24.8	43.7	59.6	69.2	68.0	66.7	60.5	43.8	36.7	26.5	44.3	96	—20	May 21	Sept. 15
Sugar Hill	.....	.....	23.4	40.9	56.0	66.1	64.9	63.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
West Milan	13.4	12.0	21.7	38.8	53.2	63.6	61.2	59.6	55.4	40.3	34.4	21.6	39.6	90	—29	May 24	Sept. 15

[1] Prof. C. W. Friend. [2] Pacific Railway system. [3] C. P. Mengel.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.																	
Allaire	30.3	24.7	38.0	47.8	59.4	70.5	70.0	73.4	68.8	48.9	45.6	37.2	51.2	98	— 4	May 23	Oct. 9
Asbury Park	30.4	25.0	36.4	47.6	59.0	[c]69.2	71.0	[f]72.8	69.0	50.8	[c]45.2	38.2	51.2	99	— 4	May 17	Oct. 9
Barnegat	30.7	25.2	37.4	49.2	57.8	70.1	[f]71.2	74.9	70.8	52.5	49.0	40.7	52.5	101	— 2	May 13	Oct. 10
Bayonne	29.0	25.0	37.4	48.9	60.8	72.0	72.6	75.6	71.6	51.6	45.5	37.0	52.2	100	— 2	May 13	Oct. 9
Beachhaven	31.7	24.8	37.6	47.4	57.2	69.4	71.6	75.1	70.8	53.2	48.8	38.8	52.2	97	— 1	Apr. 11	Oct. 10
Belvidere	24.2	20.8	34.5	49.1	60.8	72.2	69.6	72.1	68.7	47.6	43.5	34.4	49.8	100	— 8	May 17	Sept. 15
Beverly	29.4	24.4	38.2	51.6	62.6	73.9	72.6	76.4	72.3	51.0	46.6	38.6	53.1	103	— 4	May 17	Oct. 10
Billingsport	28.6	.....	36.6	50.4	62.8	74.2	73.5	76.4	70.5	50.9	45.0	36.5	.....	98	.....	Apr. 12	Oct. 22
Blairstown	25.6	23.8	37.2	[c]53.3	65.2	76.0	73.9	76.1	70.8	50.8	47.1	39.0	53.2	103	— 4	May 17	Oct. 2
Boonton	25.6	22.8	35.0	48.9	61.4	71.8	70.4	73.2	69.6	48.0	44.0	34.8	50.5	97	— 7	May 17	Oct. 15
Bridgeton	33.0	26.8	41.4	53.3	63.5	75.4	74.4	78.2	72.6	53.0	48.4	40.6	55.0	98	1	Apr. 12	Oct. 10
Camden	29.4	24.2	.....	51.5	62.0	73.0	72.0	75.7	70.2	50.6	45.3	37.7	.....	98	— 1	Apr. 18	Oct. 10
Cape May	33.6	27.6	40.4	49.4	58.0	70.4	72.4	75.8	72.4	54.6	49.2	39.8	53.6	95	2	Apr. 11	Oct. 24
Cape May C. H.	32.1	26.1	39.6	49.4	58.6	70.0	71.0	76.0	70.6	53.2	48.3	40.4	52.9	96	— 2	Apr. 18	Oct. 10
Charlotteburg	24.7	21.1	32.8	45.5	57.8	67.8	66.4	67.5	63.6	45.2	42.2	33.8	47.4	95	— 5	May 13	Sept. 15
Chester	24.0	19.2	32.8	46.2	59.0	69.6	67.2	70.3	64.6	46.2	41.9	34.2	47.9	92	—10	May 17	Oct. 10
Deckertown	.....	20.2	32.8	47.9	61.2	72.0	69.0	71.2	67.4	47.9	44.0	33.8	.....	97	.....	May 17	Sept. 15
Dover	[c]26.0	21.6	34.3	47.5	59.8	69.9	68.6	71.9	66.8	46.5	42.1	33.2	49.0	99	— 6	May 17	Sept. 15
Egg Harbor City	30.4	23.2	[c]38.2	49.6	60.1	71.4	70.8	75.0	69.8	49.2	[c]46.6	37.7	51.8	100	— 2	Apr. 24	Oct. 2
Elizabeth	28.3	23.6	36.0	48.4	61.2	72.2	71.0	74.4	69.6	49.4	44.8	35.6	51.2	99	— 7	May 17	Oct. 9
Englewood	.....	.....	.....	48.4	61.0	72.6	69.6	72.6	67.1	49.2	44.6	34.6	.....	96	.....	May 17	Sept. 15
Franklin Furnace	23.0	19.0	32.0	46.6	60.3	69.7	67.8	70.4	65.8	45.8	45.2	[c]40.2	48.8	95	— 8	May 17	Sept. 15
Freehold	29.6	23.9	37.6	48.8	60.8	70.2	69.6	73.3	68.6	49.4	45.8	37.4	51.2	96	— 2	May 13	.....
Gillette	26.4	21.7	33.0	46.2	59.0	69.1	67.9	71.2	66.1	46.3	43.2	36.0	48.8	97	—10	May 23	Sept. 16
Hanover	26.4	22.6	34.8	48.0	60.0	70.2	69.3	71.2	66.8	47.5	43.8	34.8	49.6	95	— 6	May 17	Sept. 15
Hightstown	28.6	23.0	36.6	51.0	63.3	73.8	72.7	75.8	69.8	50.1	45.8	36.8	52.3	99	— 5	May 17	Oct. 10
Imlaystown	29.4	23.8	35.6	49.1	62.6	74.4	73.0	76.6	71.5	51.0	47.2	39.2	52.8	98	— 5	Apr. 24	Oct. 15
Lambertville	28.9	22.4	36.6	49.3	61.4	73.0	72.0	75.4	69.9	49.0	45.7	.....	.....	98	.....	Apr. 17	Oct. 6
Millville	32.2	26.2	41.2	52.4	63.4	74.3	73.2	77.9	73.0	52.4	48.3	40.3	54.6	103	— 3	May 17	Oct. 2
Moorestown	29.8	23.8	38.5	51.3	62.0	73.1	71.1	76.4	72.4	52.0	46.4	38.5	52.9	101	— 5	May 17	Oct. 9
Newark[1]	28.9	24.8	36.4	48.4	61.2	71.5	71.0	74.4	69.6	49.6	45.3	36.8	51.5	96	— 4	Apr. 12	Oct. 10
Newark[2]	28.6	24.5	36.7	49.1	61.4	71.9	71.7	75.2	70.2	50.0	45.6	36.8	51.8	98	— 3	Apr. 12	Oct. 10
*New Brunswick	28.4	23.1	37.6	49.2	61.2	71.7	70.8	74.2	69.8	49.3	45.4	37.0	51.5	99	—10	May 17	Sept. 15
New Brunswick[3]	28.0	24.1	37.2	50.2	62.0	73.5	72.1	75.4	71.6	51.0	46.6	37.3	52.4	103	— 8	.....	.....
New Brunswick[4]	29.7	23.7	36.2	48.8	59.7	69.7	69.0	72.6	68.3	49.4	44.8	36.6	50.7	97	— 6	.....	.....
Newton	23.4	19.8	31.6	47.6	.....	.....	68.2	66.9	65.3	47.2	43.4	34.3	.....	.....	— 9	.....	.....
Ocean City	31.6	25.1	38.0	47.5	57.0	70.7	71.4	74.7	70.9	52.4	45.7	38.8	52.0	96	— 2	.....	.....
Oceanic	32.4	27.0	39.1	51.1	62.2	72.9	73.8	76.8	72.5	52.6	48.0	39.5	54.0	97	— 5	Apr. 12	Oct. 11
Paterson	29.2	26.9	38.2	50.0	63.2	72.6	70.7	73.6	69.6	50.9	47.0	37.4	52.4	102	— 1	May 17	Oct. 10
Perth Amboy	28.6	24.0	37.3	49.8	60.4	71.4	71.8	75.0	71.4	50.8	45.4	36.4	51.9	100	— 4	May 17	Oct. 10
Plainfield	28.6	25.2	37.4	49.4	61.3	72.1	71.2	75.4	70.8	50.6	45.6	37.2	52.1	102	— 5	May 17	Sept. 15
Pochunk Mountain	[c]21.8	19.2	31.5	46.9	61.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 17	Sept. 15
Readington (*f*)	32.2	27.4	40.3	52.3	65.8	75.1	75.9	78.1	[c]73.2	55.1	49.3	40.1	55.4	102	— 4	May 17	Oct. 11
Rivervale	26.1	21.2	35.0	47.6	59.6	71.0	68.4	71.4	66.6	46.7	44.2	34.5	49.4	98	—12	May 14	Sept. 16
Salem	31.2	24.0	40.3	52.6	62.6	73.4	72.0	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 17	.....
Somerville	27.7	24.2	37.6	49.8	62.4	72.8	71.9	76.4	72.6	50.0	45.3	35.6	52.2	109	—12	May 17	Sept. 15
South Orange	27.2	22.8	35.3	48.0	60.2	71.2	70.6	73.0	68.2	48.2	44.3	35.9	50.4	96	— 5	May 17	Oct. 9
Toms River	31.4	23.8	37.5	47.8	59.9	70.6	70.4	75.1	70.5	49.3	46.5	38.2	51.8	103	— 4	May 13	Oct. 2
Trenton	31.2	25.4	38.8	52.4	63.6	75.0	74.2	78.8	78.2	52.7	48.8	40.6	55.0	98	— 4	May 17	Oct. 10
Vineland	31.6	24.0	40.0	51.2	63.1	74.3	73.1	77.4	72.0	49.8	47.4	39.0	53.6	101	— 4	May 13	Oct. 2
West Summit	.....	.....	.....	.....	.....	.....	.....	71.1	[c]68.0	.....	.....	.....	.....	.....	.....	.....	.....
Whiting	33.3	27.4	40.6	50.8	62.0	72.1	71.4	75.8	72.0	51.6	47.8	40.2	53.8	103	0	May 13	Oct. 9
Woodbine	31.8	23.8	38.2	49.8	59.8	70.5	70.5	74.9	68.8	50.1	46.4	37.6	51.8	98	— 4	May 12	Oct. 2
New Mexico.																	
Albert	35.4	31.7	47.9	57.3	63.5	71.3	73.6	74.4	69.9	54.3	42.1	37.2	54.9	97	— 6	Apr. 5	Nov. 8
Albuquerque	33.9	32.1	45.2	55.3	62.1	71.3	74.0	73.6	71.2	54.3	36.6	31.9	53.5	96	—10	Apr. 7	Nov. 9
Alma	36.4	40.5	47.4	55.8	62.4	68.0	74.6	73.2	67.6	54.8	43.4	35.6	55.0	98	4	Apr. 5	Oct. 31
Aztec	[f]27.0	29.4	41.9	51.2	58.8	66.2	71.8	74.0	66.6	52.8	36.0	24.2	50.0	96	—18	Apr. 15	Sept. 21
Bernalillo	.....	.....	.....	.....	.....	69.5	74.2	74.2	69.8	53.6	40.8	31.5	.....	.....	.....	.....	Nov. 9
Chama	23.0	24.1	34.0	.....	52.4	.....	63.2	66.1	61.4	49.8	34.8	23.6	.....	.....	—26	May 30	Sept. 22
Deming (*g*)	49.2	45.6	57.9	60.5	71.2	78.6	80.9	83.8	77.6	67.7	57.4	42.9	64.4	.....	.....	.....	.....
Downs Ranch	.....	.....	.....	.....	.....	.....	.....	73.9	69.8	56.3	47.0	.....	.....	.....	.....	.....	Nov. 10
East Las Vegas	32.8	28.6	43.0	52.9	55.6	64.2	65.8	63.4	62.0	49.0	37.2	31.3	48.8	88	—24	May 17	Oct. 24
Eddy	41.9	36.6	55.3	63.8	70.4	78.4	80.0	80.5	76.6	64.2	.....	.....	.....	105	.....	Mar. 17	.....
Engle	.....	38.3	50.0	59.3	67.2	73.8	76.4	75.4	70.5	55.0	43.6	33.7	.....	102	.....	Apr. 5	Oct. 30
Espanola	.....	.....	.....	51.6	59.0	66.2	70.0	71.3	67.0	51.9	36.8	26.1	.....	93	.....	Apr. 10	Oct. 25
Estalina Springs	31.0	31.8	.....	49.6	[c]56.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 28	.....
Fort Bayard	37.8	38.2	46.4	54.6	61.2	68.0	71.4	70.4	68.2	55.5	43.6	37.4	54.4	94	5	Apr. 15	Oct. 29
Fort Stanton	36.4	32.0	45.4	52.7	58.6	65.2	67.4	67.0	63.2	49.0	37.0	.....	.....	95	.....	Apr. 8	Oct. 24
Fort Union	.....	.....	.....	.....	55.6	62.3	65.0	65.1	.....	48.9	39.4	32.0	.....	.....	.....	.....	Oct. 10
Fort Wingate	30.2	33.1	40.8	49.9	56.4	65.5	71.4	70.5	66.2	47.2	38.5	29.4	49.9	96	—15	Apr. 29	Oct. 24
Galisteo	31.4	29.2	43.9	53.3	60.3	69.2	.....	71.2	68.8	54.2	38.8	31.0	.....	.....	—12	Apr. 6	Oct. 25
Gallinas Spring	35.1	30.0	45.7	56.6	64.5	71.3	74.4	72.5	67.4	52.3	39.1	33.8	53.6	102	—21	Apr. 8	Sept. 22
Gila	42.0	43.8	51.0	57.2	67.3	75.7	80.1	78.3	73.4	59.6	46.2	38.5	59.4	103	10	Apr. 6	Nov. 14
Hillsboro	.....	.....	.....	.....	.....	.....	.....	.....	.....	54.0	43.4	35.2	.....	.....	.....	.....	Oct. 31
Las Cruces	40.5	40.7	.....	.....	.....	72.5	76.0	74.8	70.1	56.1	45.5	37.4	.....	.....	.....	Apr. 1	Oct. 31
Lordsburg (*g*)	40.4	42.5	49.7	63.3	72.2	79.5	83.4	77.4	74.5	62.8	46.7	38.6	60.9	.....	.....	.....	.....
Los Lunas	34.0	33.4	46.5	57.0	64.1	70.7	74.8	73.8	67.4	52.8	40.2	29.3	53.7	104	—11	Apr. 7	Oct. 27
Lower Penasco	.....	.....	.....	.....	.....	69.5	71.0	70.5	65.5	50.5	.....	.....	.....	.....	.....	.....	Oct. 23
Monero	19.7	20.4	31.7	43.3	50.5	57.5	62.0	62.5	57.6	44.2	30.3	20.2	41.7	89	—21	May 18	Sept. 22
Ocate	.....	.....	39.8	47.0	54.0	61.8	64.2	63.6	59.6	45.2	35.3	28.4	.....	88	.....	May 17	Sept. 22
Olio	.....	28.9	45.3	52.8	61.6	67.2	.....	73.1	63.6	.....	31.4	19.5	.....	.....	.....	May 11	Sept. 23
Puerto de Luna	.....	.....	.....	61.8	70.1	78.5	77.3	75.1	70.9	55.8	45.0	37.0	.....	103	.....	Apr. 6	Nov. 9
Raton	.....	28.0	43.0	52.0	57.3	64.6	68.4	69.2	63.6	50.2	35.5	28.8	.....	92	.....	Apr. 22	Sept. 28

[1] F. W. Ricord. [2] G. C. Sonn. [3] C. V. Meyers. [4] Mrs. G. H. Cook.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.			Killing frost.	
													Mean.	Extremes.		Last in spring.	First in autumn.
New Mexico—Continued.														*Max.*	*Min.*		
Rincon	39.8	40.4	52.6	61.8	68.8	75 5	79.5	77.3	71.4	56.8	46.8	35.9	58.9	107	2	Apr. 5	Oct. 31
Roswell	38.2	33.7	55.2	63.6	68.6	72.6	78.2	77.7	72.6	56.9	46.5	40.5	58.7	106	—14	Apr. 8	Nov. 10
San Marcial	36.5	36.3	48.8	57.4	64.7	70.5	72.8	71.0	64.8	54.8	43.5	33.6	54.6	95	— 1	Apr. 6	Nov. 2
*Santa Fe	28.2	27.2	39.8	49.0	54.6	62.8	66.2	66.2	63.6	49.6	35.0	25.9	47.3	87	—11	Apr. 7	Oct. 31
Socorro	.....	.....	.....	56.9	66.8	70.8	73.6	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 5	.....
Springer	32.0	27.9	45.6	47.8	58.9	.....	70.3	.....	65.2	.....	.....	39.9	.....	.....	.....	Apr. 9	Sept. 21
Taos	.....	.....	42.2	50.6	57.4	64.2	67.2	68.6	64.0	51.9	40.0	22.3	.....	.....	.....	Apr. 16	Sept. 22
New York.																	
Addison	19.8	16.7	29.7	46.7	59.4	68.8	65.8	68.1	63.5	45.1	41.2	32.7	46.5	96	—22	May 22	Sept. 15
*Albany	22.6	19.0	29.7	47.1	61.6	72.6	70.4	72.4	66.7	47.4	40.8	31.9	48.5	97	—12	May 22	Oct. 9
Alfred	[d]20.4	[d]16.4	[d]29.4	44.2	58.8	69.3	65.8	68.4	[e]64.3	41.7	39.0	29.9	45.6	96	—18	May 22	Sept. 15
Angelica	18.3	13.2	26.5	43.1	56.8	65.8	62.7	65.0	60.6	41.8	36.8	30.1	43.4	93	—18	May 22	Sept. 15
Appleton	22.5	18.9	26.4	43.0	56.5	67.0	67.4	67.4	63.6	45.0	39.3	31.5	45.7	94	— 5	May 22	.....
Arcade	18.8	12.8	25.0	43.2	56.4	67.2	64.0	65.9	61.4	40.9	37.2	28.9	43.5	94	—19	May 22	Sept. 15
Arkwright	21.5	15.2	26.4	44.6	56.6	68.3	66.0	66.4	.....	43.4	.....	.....	.....	.....	.....	.....	.....
Avon	.....	.....	.....	.....	.....	.....	.....	.....	64.8	43.4	38.4	30.6	.....	.....	.....	.....	Sept. 15
Baldwinsville	21.1	18.6	26.4	45.4	61.4	71.4	68.8	69.9	64.0	44.7	40.0	30.8	46.9	94	— 7	.....	Sept. 14
Bedford	26.3	22.5	34.9	47.2	59.4	69.3	67.8	70.6	65.7	47.3	44.4	35.6	49.2	94	— 5	May 17	Sept. 2
Big Sandy (*h*)	22.4	17.0	26.4	44.4	56.7	67.2	67.8	68.5	64.6	45.2	38.4	28.8	45.6	.....	.....	.....	.....
Binghamton	19.5	16.0	27.4	45.8	58.6	69.8	65.7	68.6	63.9	44.1	40.5	31.4	45.9	95	—15	May 22	Sept. 15
Bloomville	.....	.....	.....	.....	.....	.....	.....	.....	59.2	38.4	38.0	29.0	.....	.....	.....	.....	.....
Brentwood	27.1	21.6	34.0	46.3	56.9	69.2	68.8	[c]71.0	[d]65.4	[c]46.5	42.6	35.4	48.7	97	— 4	May 16	.....
Brookfield	21.7	15.4	24.8	44.1	58.7	71.8	70.9	68.2	64.0	46.4	39.8	28.6	46.2	93	—24	May 22	Sept. 15
Brooklyn	28.9	24.8	36.9	49.1	62.4	72.1	74.2	76.1	70.4	52.0	45.0	36.8	52.4	98	— 3	.....	.....
*Buffalo	22.9	16.5	26.9	44.8	56.2	68.8	68.0	69.1	64.8	45.6	40.2	33.2	46.4	93	—13	May 21	Oct. 21
Canton	16.5	15.6	21.6	41.1	58.3	69.9	66.8	65.9	59.6	40.8	34.8	[e]24.6	43.0	94	—29	.....	.....
Carmel	.....	.....	.....	.....	.....	.....	.....	.....	65.8	45.8	42.7	32.7	.....	.....	.....	.....	.....
Charlotte (*h*)	24.4	19.1	26.8	40.8	54.0	65.1	65.1	64.3	61.8	43.9	38.5	32.5	44.7	.....	.....	.....	.....
Cooperstown	18.8	15.2	25.2	41.9	55.1	67.3	65.0	65.8	60.7	42.0	37.7	29.0	43.6	89	—16	May 22	Sept. 15
Cortland	19.4	16.2	25.6	44.6	58.8	70.2	[f]66.0	66.7	61.0	42.7	38.9	30.2	45.0	91	— 7	.....	Sept. 15
Elmira	22.2	20.0	31.4	50.5	64.2	73.2	70.1	71.9	66.5	46.8	42.0	33.4	49.4	97	—11	.....	.....
Fleming	.....	18.6	27.0	44.7	60.2	70.4	67.4	69.6	65.4	45.9	40.6	32.8	.....	91	.....	Apr. 20	Sept. 15
Fort Niagara	23.8	19.2	27.6	43.2	56.8	68.4	68.8	69.8	65.5	46.1	39.4	32.2	46.8	94	— 7	.....	.....
Friendship	18.5	14.0	28.0	45.2	57.7	67.4	63.8	66.2	61.2	41.8	38.2	[e]28.4	44.2	95	—18	May 22	Sept. 15
Glens Falls	18.6	15.2	27.3	45.0	60.4	71.0	67.4	67.0	61.5	43.0	36.6	27.3	45.0	94	—22	May 17	Sept. 15
Gloversville	18.1	16.9	25.6	44.1	58.6	68.4	65.8	66.0	60.5	41.6	36.8	28.0	44.2	92	—20	May 22	Sept. 15
Hamilton	17.7	15.0	24.2	42.8	57.1	67.3	64.8	66.0	61.6	39.5	39.9	28.4	43.7	92	—24	.....	.....
Honeymead Brook	21.5	17.4	30.7	45.6	59.0	69.4	67.6	69.8	64.1	44.6	40.4	30.4	46.7	92	—14	May 23	Aug. 22
Humphrey	21.2	16.8	27.3	44.7	57.4	67.7	64.4	66.2	62.2	42.4	40.1	31.4	45.2	92	—15	May 21	Sept. 9
Ithaca	20.5	17.7	28.0	44.8	58.8	69.3	66.4	69.2	65.0	45.2	40.8	33.0	46.6	95	— 9	May 22	Sept. 15
Jamestown (*f*)	22.8	16.3	28.5	47.7	58.6	70.1	67.3	.....	.....	.....	38.2	29.0	.....	.....	.....	.....	.....
Lebanon Springs	21.5	17.0	27.4	43.3	57.7	68.2	65.5	67.2	60.9	42.2	39.0	29.4	45.0	90	—18	May 23	Sept. 15
Leroy	20.0	17.0	25.8	44.5	59.5	69.6	66.2	66.4	61.8	42.4	37.1	.....	.....	94	.....	May 20	.....
Lockport	20.6	16.2	25.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lowville	16.8	13.4	22.8	41.7	57.6	67.4	64.6	64.8	59.8	40.9	37.0	27.1	42.8	92	—24	May 16	Sept. 15
Lyons	24.8	21.3	29.4	46.4	60.3	70.7	67.6	68.8	64.7	45.5	41.0	32.9	47.8	92	— 6	May 14	.....
Madison Barracks	20.8	15.5	24.4	43.4	57.8	68.9	67.4	67.6	63.2	45.4	39.4	30.2	45.3	93	—27	.....	.....
Malone	16.8	13.4	21.4	40.5	57.8	66.9	64.8	64.7	59.6	40.6	35.0	25.6	42.3	91	—24	May 22	Sept. 15
Massena	18.1	14.8	23.5	45.0	60.1	.....	.....	64.1	58.6	39.6	.....	.....	.....	.....	.....	.....	Aug. 22
Middletown	22.7	20.2	30.5	47.0	.....	.....	.....	.....	.....	45.0	42.6	32.0	.....	.....	— 8	.....	.....
Minnewaska	20.8	17.5	27.4	42.4	58.1	.....	63.1	.....	64.0	.....	.....	.....	.....	.....	.....	.....	.....
Mount Morris	22.1	18.0	28.0	45.9	60.9	70.5	67.2	68.0	64.2	43.3	38.6	32.1	46.6	100	—13	May 22	Sept. 15
New Lisbon	17.3	14.4	24.2	41.8	55.2	66.0	62.9	64.9	59.0	40.2	37.1	28.6	42.6	92	—22	May 22	Aug. 22
*New York	30.1	25.2	36.4	47.7	59.4	70.0	70.8	73.8	69.7	51.0	46.0	36.9	51.4	97	— 3	Apr. 11†	Oct. 24
North Hammond	17.3	14.7	21.9	44.0	59.2	72.2	68.2	68.0	63.6	43.6	37.1	27.8	44.8	96	—28	May 22	Sept. 15
Number Four	15.9	11.0	20.5	40.0	55.0	65.3	62.1	62.4	56.0	39.1	34.4	25.6	40.6	88	—29	May 22	Aug. 22
Ogdensburg	16.2	14.4	22.1	42.7	58.0	69.2	67.8	67.6	62.9	44.4	37.0	28.1	44.2	92	—26	May 23	.....
Oneonta	23.6	19.6	29.6	48.2	60.0	70.8	67.0	68.9	63.3	45.3	40.6	32.7	47.5	98	—10	.....	.....
*Oswego	21.6	18.7	25.4	42.2	57.0	66.6	66.4	67.4	63.8	44.8	39.8	31.6	45.4	90	—12	May 22	Oct. 21
Oxford	19.2	16.8	27.0	44.6	58.4	69.9	65.8	67.4	61.8	41.9	38.4	29.6	45.1	95	—18	.....	Sept. 15
Palermo	19.7	16.8	23.8	43.6	59.2	67.8	66.2	67.5	62.5	42.8	37.7	29.4	44.8	93	—15	May 22	Sept. 15
Perry City	18.9	15.6	25.6	43.5	59.2	68.3	65.5	66.6	62.1	41.2	37.6	29.3	44.4	93	—12	May 22	Sept. 15
Pittsford	.....	.....	.....	.....	.....	.....	67.1	68.0	63.9	44.7	40.2	33.0	.....	.....	.....	.....	.....
Plattsburg Barracks	18.7	16.5	26.2	42.8	56.6	68.2	66.9	65.5	59.7	42.9	35.7	24.4	43.7	94	—18	.....	.....
Port Jervis	21.5	18.2	31.1	47.0	61.2	71.0	68.2	69.9	64.5	44.8	40.7	31.6	47.5	94	— 8	May 17	Aug. 15
Potsdam	15.9	13.5	21.4	40.4	59.0	69.4	67.6	.....	61.5	43.8	34.8	25.2	.....	.....	—23	.....	.....
Poughkeepsie	20.7	15.8	31.6	46.5	59.3	70.6	68.2	71.2	65.8	46.2	41.5	32.9	47.5	99	—15	.....	Sept. 15
Remsen	.....	.....	.....	.....	.....	.....	.....	.....	59.0	40.8	35.6	.....	.....	.....	.....	.....	Sept. 15
*Rochester	23.0	19.4	28.4	46.0	60.5	70.7	68.4	69.4	65.2	44.9	40.1	32.8	47.4	94	— 8	May 21	Oct. 20
Rome	20.2	17.6	25.0	46.2	58.5	68.4	65.8	66.6	61.4	43.0	38.4	29.2	45.2	90	—20	.....	.....
Romulus	22.2	19.0	29.4	44.8	60.8	70.8	67.8	69.6	65.1	45.8	40.5	32.7	47.4	94	— 8	.....	.....
Saranac Lake	14.6	10.2	19.6	38.9	57.3	67.0	63.0	62.6	57.2	39.2	33.0	22.9	40.5	92	—30	May 15	Aug. 21
Saratoga Springs	.....	16.8	27.4	46.6	61.6	[e]72.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Setauket	29.5	24.4	35.5	46.2	58.5	68.4	69.6	72.2	67.8	50.9	46.2	38.6	50.6	93	— 1	May 17	.....
South Canisteo	19.1	16.5	28.5	45.2	57.7	67.2	63.6	65.9	61.6	43.1	39.2	30.8	44.9	95	—15	May 22	Sept. 15
South Kortright	18.6	15.9	28.1	43.4	56.0	67.0	64.0	64.6	59.8	40.4	38.4	28.4	43.7	98	—20	.....	.....
Stillwater	20.5	16.0	27.2	45.8	62.0	72.2	68.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Turin	16.5	12.6	21.2	40.4	56.1	[e]65.8	63.6	64.0	58.4	39.5	35.0	26.3	41.6	87	—22	.....	.....
Varysburg	20.2	15.0	25.7	45.4	59.2	69.3	65.8	67.3	64.2	42.6	39.4	30.6	45.4	99	—17	May 21	Sept. 15
Victor	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	39.4	[e]31.7	.....	.....	.....	.....	.....
Wappingers Falls	20.8	16.2	31.0	47.5	61.6	71.8	69.9	72.2	66.2	46.4	42.4	33.3	48.3	97	—14	May 17	Sept. 15
Watertown	20.3	15.7	24.4	44.0	59.6	71.0	68.0	68.0	66.2	.....	.....	.....	.....	98	.....	May 22	Sept. 15
Waverly	19.5	18.0	29.4	46.8	59.5	71.2	67.6	69.6	65.6	44.0	40.2	33.0	[e]47.0	97	—16	May 22	Sept. 15
Wedgwood	19.6	17.1	27.0	44.2	58.9	70.5	67.5	69.0	64.0	44.0	38.8	30.2	45.9	96	—14	May 17	Sept. 15
Westpoint	[e]23.1	18.2	31.5	47.3	55.9	71.7	67.2	72.0	67.6	47.2	41.8	32.2	48.0	99	— 5	.....	.....
Willetspoint	28.2	23.5	35.5	46.2	62.5	69.0	70.3	73.9	68.7	50.6	44.7	35.4	50.8	98	— 4	.....	.....

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
North Carolina.																	
Armour				53.6													
Asheville	34.2	28.8	45.2	57.2	61.7	69.9	69.2	72.0	70.6	51.2	49.4	38.4	54.0	94	— 9	May 14	Oct. 1
Bailey (e)	39.6	33.1	[c]49.8	60.6	69.3	79.6										Apr. 15	
Bakersville	33.2	27.0	42.2	51.4		67.8	68.8	69.9			47.4					May 15	Sept. 30
Blowing Rock	[c]27.0	20.9	34.2	45.1	53.8	66.1	65.8	66.0	67.6					85		May 15	Sept. 30
Chapelhill	37.6	31.2	48.4	57.4	65.1	76.8	76.4	78.1	76.4	57.0	50.0	42.6	58.1	102	1	Apr. 4	Oct. 1
*Charlotte	39.0	32.9	49.2	58.4	65.6	76.2	77.0	77.5	76.2	58.2	51.0	42.4	58.6	100	1	Apr. 4	Nov. 13
Experiment Farm	[d]39.2	32.1	49.4	57.8	65.8	77.0	76.2	[f]78.2	75.8	57.0	51.0	44.2	58.6	100	3	Apr. 4	Oct. 10
Falkland (a)	41.2	31.8	48.6	56.3	64.4	75.1	75.0	75.7	75.0	57.2	53.3	44.1	58.1	97	5	Apr. 4	Oct. 11
Fayetteville		[c]34.2	51.2	59.6	66.4	77.3	77.8	78.0	76.0	58.4	53.2	44.3		98		Apr. 14	Nov. 21
Flatrock				53.0	59.8	69.0	70.6	70.6	67.6	49.1	[c]46.6			93		May 15	Oct. 1
*Goldsboro				60.2	67.6	77.6	79.2	79.8	76.4	58.2							
*Greensboro					63.2	75.0	76.0	76.5	74.4	55.4	50.8	42.8		96			Oct. 1
*Hatteras	45.8	36.0	50.2	58.8	65.6	74.3	76.8	78.0	76.6	62.2	57.4	48.4	60.8	91	11	Feb. 25	Nov. 22
Henderson	37.0	30.2	47.8	56.4	64.7	77.0	76.6	78.2	76.8	56.2	51.4	42.4	57.9	103	1	Apr. 4	Oct. 10
Highlands	32.6	24.8	40.8	48.6	56.8	64.8	66.0	66.4	63.9	47.9	44.4	34.7	49.3	86	—17	May 14	Sept. 30
Horse Cove	35.5	29.2	44.8	53.9	60.5	71.0	71.0	71.6	69.6	52.7	48.0	38.5	53.9	90	—13	May 15	Oct. 1
*Kitty Hawk	42.6	33.3	47.0	55.5	62.1	73.1	76.3	78.7	76.6	60.2	54.6	45.9	58.8	94	6	Apr. 4	Oct. 25
Lenoir (a)	35.0	30.4	46.1	55.7	64.1	73.3	73.5	73.6	70.9	52.3	48.0	39.0	55.2	92	0	Apr. 19	Oct. 1
Linville	27.9	19.9	36.7	45.6	54.4	62.8	64.0	65.0	62.6	44.3	41.6	33.6	46.5	83	—16	May 15	Sept. 30
Littleton	37.8	[c]31.3	47.2	56.9	64.4	[c]76.6	[b]76.0	77.6	75.8	55.0	50.1	41.7	57.5	103	1	Apr. 3	Oct. 1
Louisburg	38.4	31.1	48.1	57.2		76.2	76.6	77.4	75.1	54.6	50.2	[h]39.6		100	2	Apr. 5	Oct. 1
*Lumberton	44.0	36.6	52.3	60.8	69.0	79.0	80.2	79.4	76.4	58.5	54.9	44.4	61.3	101	8	Mar. 26	Oct. 10
Lynn (b)	36.7	31.2	46.6	57.2	63.0	73.4	74.0	73.7	69.4	52.6	47.6	39.8	55.4	96			Oct. 2
Marion	36.5	30.8	49.2	54.3													
Mocksville	38.5	33.5	49.6	57.4	63.9	74.3	75.0	75.5	74.2	56.4	51.6	43.1	57.8	95	0	Apr. 15	Oct. 2
Moncure	38.8	31.5	48.8	57.2	64.7	75.6	75.8	76.5	74.1	55.1	51.2	42.0	57.6	99	3	Apr. 19	Oct. 1
Morganton (a)	36.1	32.3	48.4	58.1	64.4	74.1	75.5	73.8	72.7	55.4	49.4	38.2	56.5	96	0	Apr. 19	Oct. 1
Mount Airy	34.1	28.2	44.6	55.0	62.2	71.7	73.4	[g]73.0	71.3	[c]50.8	49.6	[c]38.4	54.4	98	— 7	Apr. 19	Oct. 1
Mount Pleasant	39.0	31.8	48.8	57.7	65.0	75.0	76.5	77.3	75.3	56.4	51.0	42.5	58.0	97	2	Apr. 15	Oct. 2
*Newbern	46.0	37.2	53.4	60.7	68.0	77.2	78.4	80.2	78.4	61.1	57.0	47.7	62.1	100	8	Mar. 23	Oct. 10
Oakridge	35.0	29.0	47.0	56.8	63.6	74.7	75.2	75.6	74.4	54.4	49.6	41.8	56.4	99	— 2	Apr. 4	Oct. 1
Pittsboro	36.4	30.2	46.4	55.8	61.8	73.0	73.5	74.8	73.4	53.8	47.0	40.6	55.6	97	2	Apr. 18	Oct. 1
*Raleigh	39.4	32.6	49.0	57.6	65.0	76.6	76.4	77.4	75.9	56.8	51.2	43.4	58.4	100	4	Mar. 23	Nov. 3
Raleigh (a)[1]	41.4	34.6	50.5	60.2	66.2	78.1	78.0	79.3	77.4	58.2	53.5	45.4	60.2	102	4	Apr. 4	Nov. 3
Rockingham	44.1	36.8	52.8	61.2	67.9	77.7	79.4	80.2	77.0	58.5	52.7	45.0	61.1	101	4	Apr. 4	Oct. 2
Roxboro	[c]37.0	30.2	47.4	56.2	63.9	74.8	75.2	77.6	[d]75.4	54.5	49.4	41.2	56.9	100	— 4	Apr. 19	Oct. 1
Rutherfordton				56.2	61.6	71.9	72.6	73.0	72.2	53.9	48.1	38.0		91		Apr. 19	Sept. 30
Salem							77.0	77.5	75.6	53.0	47.9	37.1					
Salisbury	40.0	33.8	50.5	59.9	67.0	78.5		78.9	76.7	55.4	50.0	40.8			7	Apr. 4	Oct. 10
Saxon	36.5	31.2	46.7	56.9	63.7	74.3	75.4	76.8	72.8	52.4	48.2	38.2	56.1	102	— 4	Apr. 19	Oct. 1
Selma	41.4	32.9	50.1	58.3	65.4	77.1	76.4	77.4	75.7	57.6	51.9	43.8	59.0	100	3	Apr. 4	Oct. 1
Settle								76.8	75.7	55.5							
Shelby		31.1	44.6	55.3	63.6											Apr. 4	
Skyuka	36.5	30.0	46.0	53.2	59.1	70.5	69.7		66.8	53.6	46.8	40.5			— 4	Apr. 15	Oct. 10
Sloan	45.8	36.0	52.4	59.5	67.2	76.6	78.0	78.4	76.4	58.5	[e]53.4	46.5	60.7	101	9	Mar. 24	Oct. 10
Soapstone Mount	37.3	28.9	47.0	55.8	63.4	73.5	74.4	74.8	72.8	52.0	48.7	41.6	55.8	98	— 4	Apr. 4	Oct. 1
Southern Pines	40.3	34.8	51.6	59.8	67.0	77.6	77.6	[e]79.0	[h]78.7	61.0	54.6	47.5	60.8	103	5	Apr. 4	Oct. 10
Southport	46.2	38.3	52.2	60.2	67.6	76.7	78.0	79.4	76.7	62.8	57.0	49.4	62.0	95	10	Mar. 23	Nov. 21
Tarboro	41.0	33.1				77.8	[f]77.5	78.6	77.2	56.8	52.4	44.0			11		Oct. 10
Waynesville	35.4	27.1	44.6	53.2	60.3	68.4	70.2	70.4	67.8	49.1	46.8	38.2	52.6	91	—10	May 14	Oct. 1
Weldon	38.6	30.7	48.0	57.2	65.0	76.1	76.7	78.0	75.2	53.4	51.1	43.0	57.8	99	3	Apr. 5	Oct. 10
Willeyton	[c]39.4	31.7	48.0	58.4	65.0	74.9	75.7	77.6	[c]74.4	55.8	52.2	45.2	58.2	99	2	Apr. 4	Oct. 10
*Wilmington	46.1	37.4	53.4	60.8	67.8	77.4	78.2	78.9	76.6	62.0	56.0	48.6	61.9	100	10	Mar. 22	Nov. 21
North Dakota.																	
Amenia									[c]56.9	40.4	22.2	13.2					Sept. 7
Ashley	0.0	5.7	25.4	49.2	54.8	60.5	[c]67.4	66.1	59.7	40.4	[d]22.0	17.0	39.0	104	—48	May 26	Aug. 31
Berlin	—2.5	6.2	25.0	50.2	55.4	60.4	66.3	65.7	58.6	39.8	22.0	14.0	38.4	95	—44	June 28	Aug. 31
*Bismarck	—1.2	9.5	27.4	50.2	54.6	59.4	67.6	67.4	59.2	43.0	22.2	18.0	39.8	98	—39	May 21	Aug. 31
Bottineau	—6.2	4.1	19.2	48.8	51.9	56.8		61.7								June 10	
Churchs Ferry	—7.3	3.4	21.5	48.4	53.8	58.1	66.2	63.3	54.6		17.4	12.4		96	—44	June 28	Aug. 31
Coalharbor							66.6	66.0	56.7	40.8	19.2	14.4					Aug. 31
Devils Lake	—4.4	5.2	22.0	49.8													
Dickinson	1.8	10.6	[c]24.5		52.0	57.8	65.2	64.5	55.7	40.9	21.6	18.0		98	—43	May 21	Aug. 14
Ellendale	1.4	8.7	24.1	52.5	59.0	66.2	69.5	[d]70.1		36.4	22.2	19.6				May 25	
Falconer	3.8	9.0	16.8	50.6	53.8	60.2	67.3	66.4	58.3		[e]17.6	15.9					
Fargo	—4.4	1.2	22.7	49.2	55.2	61.0	64.8	64.1	57.6	39.8	22.2	12.2	37.1	92	—37		Aug. 31
Forman	—3.4	5.6	24.8	53.4	55.0	61.8	66.0	64.8	59.2	41.4	21.4	13.8	38.6	103	—43	June 28	Aug. 10
Fort Berthold	0.6	9.2	27.9	52.6	57.4	60.4	68.4	69.3	58.4	46.7	23.6	20.8	41.3	100	—50	May 30	Sept. 5
Fort Yates		9.3	31.2	52.0	60.3	64.0	67.0	68.5	61.0	41.0	24.3	20.8		100		May 21	Sept. 8
Gallatin	—4.8	4.4	21.4	49.3	[h]53.4	59.3	65.2	64.6	56.2	39.2	19.4	13.2	36.7	100	—44	May 26	Aug. 31
Grafton	—9.1	4.8	20.4	48.4		58.2	62.9	62.7	54.2	41.0	19.3	9.8			—35		Sept. 8
Jamestown	1.4	10.3	26.2	51.7	54.5		[b]68.4	68.2	60.3	42.5	23.8	16.2			—32	June 28	Sept. 23
Kelso	—2.7	7.1	16.8	48.4	56.2	62.6	[c]64.8				[h]21.4	[f]11.6				May 27	
Lakota	—2.8	3.4	20.0	49.9		58.0	64.0	61.6	52.2	39.5	18.4	9.4			—43		Sept. 11
Larimore	—0.4	8.0	24.0	51.6			[c]64.3	66.7	56.7	41.2	19.2						Sept. 3
Lemert	—5.0		[f]24.8	[d]50.1	[d]55.6	59.4				[c]39.1		[f]9.4				June 28	
McKinney	—4.1	8.2	23.2	48.0	52.2	58.6	67.5	63.4	51.8	39.7	18.0	13.2	36.6	94	—42	May 30	Aug. 30
Milton	—9.3	—1.5	16.4	46.4	52.6	[c]57.4	65.3	63.4	52.9	37.9	16.8	8.0	33.8	90	—45	May 29	Aug. 20
Minto	—5.8	5.9	21.4	49.0	57.4	61.3	[d]66.8	65.4		[h]38.3		10.2				May 21	Sept. 8
Napoleon	—2.4	5.8	25.4	49.4	53.7	59.4	68.1	67.2	58.8	40.6	22.2	15.4	38.6	98	—40	May 26	Aug. 31
New England City	5.2	10.8	28.8	48.8	49.8	57.9	68.2	[c]64.4	57.2	44.1	27.4	17.5	40.0	100	—40	May 21	Sept. 7
Oakdale	3.4	13.4	[c]27.0	49.4	51.4	57.7	66.2	64.8	55.8	43.9	24.4	19.6	39.8	93	—30	May 21	Sept. 22
Portal	—4.8	5.0	21.4	49.6	51.5	58.8	67.7	63.1	52.3	40.0	17.0	10.4	36.0	100	—38	May 30	Aug. 31
Power	—2.8	5.0	25.3	49.8	57.0	[h]61.6	66.4	66.0	59.3	42.5	22.2	14.0	38.9	95	—36	May 26	Sept. 7

[1] T. C. Harris.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual. Mean.	Annual. Extremes. Max.	Annual. Extremes. Min.	Killing frost. Last in spring.	Killing frost. First in autumn.
North Dakota—Continued.																	
St. John	—5.2	8.5	19.2	47.0	50.5	56.4	66.0	61.1	51.7	[i]41.3	[c]14.3	14.0	35.2	90	—33	May 20	Sept. 22
Sheyenne	—3.2	5.0	22.9	50.2	54.2	59.7	65.2	63.7	56.1	40.1	18.0	.....	.....	95	.....	May 26	Aug. 31
Steele	—2.2	5.8	25.2	50.0	53.8	59.5	67.4	65.8	58.1	[d]40.3	19.2	13.5	38.0	99	—40	May 25	Aug. 30
University	—1.5	5.4	23.2	49.2	55.6	[c]58.6	64.0	62.7	55.2	40.4	22.4	12.8	37.3	93	—33	.....	Sept. 22
Wahpeton	0.1	4.7	26.7	52.1	58.2	62.7	.....	.....	.....	.....	.....	17.2	.....	.....	.....	May 22	.....
White Earth (*a*)	—4.9	7.1	26.1	48.2	49.8	.....	.....	.....	.....	39.4	.....	9.4	.....	.....	.....	May 31	.....
Wildrice (*b*)	—3.8	3.6	22.3	50.0	55.8	61.5	65.9	63.7	55.7	36.7	21.8	12.6	37.2	.....	.....	May 21	Sept. 23
*Williston	—1.0	9.2	27.2	50.2	53.4	59.4	68.6	65.6	56.4	42.2	20.0	16.0	38.9	96	—40	May 20	Sept. 7
Willow City	—7.1	2.4	20.6	48.4	52.6	57.8	64.4	62.3	53.5	39.4	15.4	10.6	35.0	99	—43	June 10	Aug. 31
Woodbridge	—8.5	—0.2	15.2	46.8	51.4	56.8	63.0	58.9	50.5	37.1	15.4	9.8	33.0	88	—43	June 10	Aug. 20
Ohio.																	
Akron	22.4	19.3	32.4	50.1	61.1	72.1	69.9	71.7	67.2	[f]45.6	40.8	32.8	48.8	95	— 6	May 21	Oct. 9
Annapolis	22.7	18.8	33.0	50.1	60.3	72.8	69.6	70.2	67.3	47.1	42.2	33.4	49.0	101	— 8	May 22	Oct. 2
Ashland	21.0	17.7	31.8	50.5	60.5	70.2	69.0	70.9	65.5	44.1	39.0	31.7	47.7	93	—12	May 22	Sept. 24
Ashtabula	.....	.....	.....	44.8	58.9	69.0	68.6	69.8	66.8	47.9	41.9	34.2	.....	.....	.....	.....	.....
Athens	27.1	21.2	39.5	[c]55.1	61.8	73.2	71.6	.....	71.3	48.4	.....	.....	.....	.....	—11	May 22	Oct. 10
Auburn	19.5	15.4	29.5	48.1	57.6	67.2	65.6	67.5	63.1	43.4	36.6	30.0	45.3	96	—21	May 28	Oct. 3
Bangorville	21.1	17.1	32.8	50.8	60.7	73.0	71.7	72.6	67.3	45.2	40.2	33.5	48.8	96	—11	May 21	Sept. 30
Bellefontaine	22.7	20.0	35.8	52.2	60.4	72.0	71.2	72.2	68.2	45.7	39.2	31.4	49.2	98	—12	May 22	Oct. 1
Bement (*a*)	19.4	16.4	27.4	44.8	57.3	67.6	66.4	66.4	65.0	41.4	35.9	28.9	44.7	.....	.....	.....	.....
Benton Ridge	21.5	19.5	34.0	52.2	61.4	73.4	72.3	73.5	69.5	47.0	39.1	32.4	49.6	103	—11	May 22	Sept. 30
Berlin Heights	.....	.....	.....	48.9	62.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 21	.....
Bethany	23.9	20.1	38.7	53.0	61.1	73.3	73.8	75.3	70.6	47.5	40.7	34.9	51.1	100	—13	May 17	Sept. 28
Bigprairie	21.3	18.1	32.1	51.6	61.8	71.8	69.8	71.2	66.9	44.8	41.0	31.2	48.5	98	— 8	May 22	Sept. 30
Binola	24.7	20.7	33.7	51.3	64.1	75.1	74.0	74.0	68.1	46.1	41.4	33.0	50.5	101	— 9	May 21	Oct. 10
Bissells	20.0	17.1	29.8	48.7	60.1	71.1	69.1	69.6	66.9	45.3	39.8	31.4	47.4	96	—15	May 21	Oct. 10
Bladensburg	21.3	18.1	34.4	.....	[h]55.4	70.4	69.3	71.1	67.1	45.5	40.0	32.6	.....	99	—10	June 7	.....
Bloomingburg	24.7	21.1	38.1	52.8	.....	73.9	72.8	74.9	71.3	48.5	42.8	36.4	.....	98	—12	May 20	Oct. 1
Bowling Green	19.7	17.3	32.1	49.8	60.8	71.7	71.1	72.1	69.0	45.5	38.3	31.0	48.2	100	—12	May 22	Sept. 24
Bucyrus	22.8	18.2	33.1	52.8	62.9	71.9	71.8	72.5	68.8	43.5	38.8	32.4	49.1	99	—13	May 20	Oct. 1
Cambridge	23.3	19.6	35.9	51.2	59.5	71.8	69.5	72.0	67.6	45.2	39.8	.....	.....	99	— 8	May 28	Oct. 1
Camp Dennison	25.5	21.0	39.9	54.4	63.1	75.5	76.1	78.1	73.3	50.1	43.0	36.5	53.0	103	—12	May 17	Oct. 1
Canal Dover	22.8	20.2	33.5	50.3	60.1	70.0	69.0	.....	.....	45.2	40.6	32.4	.....	.....	—10	May 22	Oct. 1
Canton	23.8	20.2	33.3	51.2	61.1	72.2	70.0	72.1	67.6	46.5	41.1	33.2	49.4	98	— 5	May 21	Oct. 10
Cardington	14.3	17.1	35.0	49.2	59.0	69.0	70.9	70.0	.....	45.0	41.0	31.7	.....	99	—11	May 21	Oct. 1
Carrollton	22.5	18.8	33.2	51.2	61.4	72.5	67.8	.....	66.4	46.3	41.6	32.4	.....	101	— 8	May 22	Oct. 1
Cedarville	.....	.....	.....	.....	.....	.....	.....	77.3	.....	52.2	45.8	.....	.....	.....	.....	May 22	Sept. 30
Celina	27.4	22.9	37.8	55.1	63.3	73.8	73.7	75.1	71.3	48.8	42.4	36.8	52.4	98	—14	May 21	Oct. 1
Cherryfork	25.6	.....	40.1	54.4	62.4	73.6	73.4	75.6	71.7	48.1	42.4	36.0	.....	101	—19	May 15	Sept. 30
*Cincinnati	26.6	23.8	40.8	55.4	63.6	75.8	75.0	77.2	72.8	51.2	44.2	37.3	53.6	97	—12	May 15	Sept. 30
Circleville	26.0	22.0	39.5	55.0	62.9	74.9	74.4	76.2	72.4	48.8	43.0	36.6	52.6	101	—10	May 17	Sept. 27
Clarksville	24.6	20.4	39.0	53.6	61.2	73.6	72.6	74.4	71.2	48.1	42.6	35.9	51.4	.....	—14	May 15	Oct. 1
*Cleveland	22.4	19.8	31.0	48.2	59.4	69.9	69.0	70.8	67.6	46.7	41.4	33.2	48.3	94	— 6	May 21	Oct. 10
Cleveland[1]	24.0	19.6	32.5	49.1	59.8	70.2	69.3	70.4	67.2	46.9	41.8	34.1	48.7	94	— 6	May 21	Oct. 18
Clifton	22.8	18.4	36.3	52.4	61.5	74.0	73.6	76.1	71.1	47.6	41.8	34.8	50.9	103	—15	May 22	Oct. 1
Coalton	26.2	21.5	40.0	53.0	60.4	73.5	72.6	75.5	70.3	46.5	42.8	35.2	51.5	104	—19	May 22	Oct. 1
Colebrook	18.7	13.5	28.2	46.8	57.7	68.2	67.6	69.8	64.6	44.5	40.1	32.4	46.0	93	—23	May 22	Oct. 10
*Columbus	24.1	21.0	36.7	53.2	62.8	74.9	73.8	75.6	71.2	48.2	42.4	34.9	51.6	99	— 8	May 17	Oct. 10
Cynthiana	27.2	22.9	39.3	52.4	61.5	72.7	73.4	[e]75.4	.....	.....	.....	.....	.....	.....	.....	May 17	.....
Dayton	.....	.....	[c]33.8	53.9	63.5	75.1	75.4	76.5	72.2	48.8	42.6	37.0	.....	99	.....	.....	Oct. 1
Defiance	20.0	17.2	33.2	50.9	62.6	73.5	72.5	74.2	69.4	46.0	[c]36.6	31.4	49.0	101	—12	May 21	Sept. 25
Demos	23.6	19.2	34.8	52.5	60.9	73.7	71.2	74.1	70.5	48.1	43.6	34.8	50.6	97	—11	May 22	Oct. 10
Dupont	19.8	17.1	31.8	50.6	58.9	[g]70.6	73.6	74.1	67.1	44.8	39.1	30.8	48.2	98	—12	May 22	Oct. 1
Ellsworth	21.7	18.5	31.8	50.0	59.7	69.6	68.6	70.9	66.5	45.5	40.6	32.4	48.0	98	—13	May 28	Oct. 1
Elyria	21.7	21.0	30.5	49.0	62.5	73.3	72.8	74.0	69.4	48.8	41.4	32.6	49.8	101	.....	May 20	Oct. 9
Fairport Harbor (*h*)	.....	.....	28.6	42.6	56.5	69.3	70.6	71.8	68.6	49.4	42.3	34.4	.....	.....	.....	.....	.....
Fayetteville	24.9	19.4	38.8	53.2	61.9	73.0	72.4	74.4	70.9	48.7	42.0	35.4	51.2	97	—14	May 17	Sept. 30
Findlay	21.5	19.2	34.1	51.5	60.3	72.2	71.6	71.7	67.8	44.9	39.6	32.2	48.9	99	— 9	May 22	Oct. 1
Fostoria	22.8	17.8	31.3	50.5	61.4	71.0	[e]71.8	73.5	68.7	48.9	39.1	31.6	49.0	.....	.....	.....	Oct. 21
Frankfort	26.2	22.4	39.3	53.8	62.1	72.8	72.4	73.6	70.4	47.9	42.4	37.3	51.7	98	— 9	May 22	Oct. 1
Garrettsville	19.9	16.9	31.3	47.9	57.8	67.8	66.1	69.6	64.4	43.5	39.4	32.0	46.4	94	—21	May 21	Oct. 2
Georgetown	27.9	22.7	41.7	56.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Granville	21.0	20.0	35.9	51.8	62.0	71.5	70.3	70.6	[i]66.8	44.7	39.9	34.8	49.1	99	— 9	May 22	Sept. 30
Gratiot	24.5	20.0	36.7	52.2	60.7	71.7	70.7	72.7	67.7	47.7	42.3	34.2	50.1	98	—11	May 22	Oct. 1
Greenfield	.....	21.2	39.1	53.9	61.8	[e]74.4	73.9	75.2	72.3	48.7	[e]42.2	37.4	.....	98	.....	May 20	Oct. 1
Greenhill	20.7	17.8	32.1	49.1	59.3	70.7	67.8	70.1	65.8	44.5	39.9	31.4	47.4	104	—13	May 21	Sept. 28
Greenville	22.9	18.5	36.0	52.1	60.7	71.4	71.5	72.6	68.5	45.7	39.9	33.4	49.4	95	—13	May 21	Oct. 1
Hackney	25.5	21.2	37.7	53.6	61.9	72.8	73.5	[f]73.6	69.1	49.9	44.8	34.7	51.5	100	— 9	May 23	Oct. 1
Hanging Rock	30.1	22.5	40.9	53.7	61.3	73.5	72.6	74.4	71.4	48.2	44.4	37.0	52.5	101	—13	Apr. 20	Sept. 30
Hebbardsville	28.3	24.2	40.7	56.2	63.7	75.0	74.8	77.4	73.4	52.7	46.2	38.0	54.2	102	—12	May 16	Oct. 1
Hedges	21.1	17.1	33.3	50.3	59.9	70.3	70.5	74.5	67.4	44.0	37.4	29.9	48.0	99	—16	May 22	.....
Hillhouse	20.7	15.9	29.3	47.4	58.9	69.4	66.9	69.6	65.2	44.5	39.9	32.1	46.6	98	—24	May 21	Oct. 9
Hillsboro	25.3	21.1	39.2	53.3	61.1	72.9	72.5	74.9	71.7	48.8	42.6	36.1	51.6	105	—15	May 17	Sept. 30
Hiram	20.4	16.5	29.5	49.4	59.0	70.0	68.7	70.4	65.3	44.4	38.7	31.3	47.0	94	—14	May 22	Oct. 9
Hudson	.....	.....	.....	.....	.....	.....	69.1	70.8	65.4	44.4	39.7	.....	.....	.....	.....	.....	Oct. 10
Jacksonboro	24.8	22.3	37.3	54.2	62.8	74.7	74.5	78.1	72.4	50.7	41.8	33.9	52.3	101	—15	May 21	Sept. 30
Kenton	22.8	20.6	37.0	53.1	62.0	73.0	73.5	76.0	70.8	47.3	40.8	33.6	50.9	100	—11	May 21	Oct. 1
Kilbourne	23.0	18.1	34.8	51.3	59.0	72.2	70.2	.....	.....	.....	40.8	.....	.....	.....	.....	May 22	.....
Killbuck	22.6	20.0	34.5	51.2	62.5	74.2	72.5	76.3	66.8	45.5	40.8	32.5	50.0	102	—10	May 21	Oct. 2
Lancaster	.....	.....	.....	.....	.....	.....	.....	.....	69.5	46.4	41.2	33.6	.....	.....	.....	.....	Oct. 1
Leipsic	22.0	.....	32.7	50.6	60.5	70.9	71.8	71.1	67.2	44.0	38.0	31.4	.....	100	.....	May 22	Sept. 30
Levering	17.6	15.1	31.1	48.6	57.9	68.5	67.4	68.8	64.0	.....	36.9	31.0	.....	99	—20	May 22	Oct. 1
Logan	26.2	22.5	39.5	54.8	63.2	74.9	72.0	74.7	71.6	47.6	43.0	35.2	52.1	104	—10	May 22	Oct. 1
Lordstown	21.0	17.3	30.9	47.5	58.5	68.2	66.8	69.0	64.8	44.6	38.8	32.4	46.6	96	—14	May 22	Sept. 15
Lowell	26.5	18.4	.....	51.6	62.8	75.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 17	.....
McArthur	26.6	20.9	38.5	52.7	61.4	72.4	72.4	74.1	71.0	46.5	42.4	35.2	51.2	101	—12	May 22	Oct. 1

[1] G. A. Hyde.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.																	
McConnelsville	26.7	20.9	37.9	51.3	62.0	72.7	71.8	74.7	70.6	47.9	45.2	34.8	51.4	100	— 8	May 22	Oct. 1
Marietta	c23.0	23.8	39.8	54.7	62.6	73.9	72.0	75.0	70.9	49.0	43.9	c37.8	52.2	98	— 5	May 22	Oct. 1
Marion	22.4	19.5	34.7	51.2	61.9	72.2	71.3	72.9	69.6	46.5	41.4	33.9	49.8	99	—10	May 17	Oct. 1
Medina	20.5	17.6	32.3	49.4	59.9	70.7	69.4	71.5	67.1	45.1	40.0	32.5	48.0	98	—14	May 22	Oct. 10
Milfordton	20.1	18.0	33.4	49.1	59.6	71.5	70.8	72.5	67.2	45.1	39.6	32.0	48.2	102	—11	May 22	Oct. 1
Milligan	25.4	20.9	37.9	52.4	61.5	73.2	71.2	73.6	69.9	46.6	42.4	34.6	50.8	105	—14	May 22	Oct. 1
Millport	.....	.....	36.6	54.8	65.2	.....	.....	.....	71.2	49.6	44.0	.....	.....	.....	.....	May 22	Oct. 9
Montpelier	17.9	16.2	30.6	49.8	60.1	70.8	70.1	71.4	66.3	43.6	36.4	28.1	46.8	97	—16	May 22	Sept. 30
Napoleon	20.4	17.6	32.0	50.0	61.6	73.0	71.9	72.4	67.7	44.1	37.2	30.5	48.2	102	—11	May 15	Oct. 1
New Alexandria	24.1	19.6	34.9	51.7	62.3	74.1	71.0	73.1	69.0	48.8	43.4	34.1	50.5	100	— 9	May 22	Oct. 10
New Berlin	21.0	18.2	32.7	50.2	62.2	73.2	71.5	72.2	66.9	45.0	39.8	31.2	48.7	99	—10	May 22	Oct. 1
New Bremen	22.2	18.7	35.4	52.2	60.6	73.0	71.8	74.3	69.3	46.3	40.5	34.6	49.9	101	—15	May 21	Oct. 1
New Comerstown	21.8	19.1	34.6	51.7	60.5	72.1	69.9	72.2	67.5	45.1	41.0	33.2	49.1	100	— 9	May 21	Oct. 1
New Holland	23.6	20.4	37.5	53.2	62.2	73.1	.....	74.5	70.0	47.3	41.0	35.5	.....	.....	—14	May 22	Oct. 1
New Paris	21.4	17.5	35.6	52.6	61.1	77.3	76.7	77.9	71.7	50.7	43.2	33.1	51.6	102	—15	May 22	Sept. 30
New Waterford	23.3	.....	35.1	.....	.....	66.6	64.7	.....	64.4	.....	.....	.....	.....	.....	.....	May 22	Oct. 1
North Lewisburg	22.1	19.8	34.4	52.0	60.2	71.4	72.2	73.3	69.0	45.1	39.4	33.2	49.3	99	—13	May 22	Oct. 1
North Royalton	21.5	17.6	30.7	49.3	60.7	70.7	70.1	71.5	68.1	45.3	40.6	32.2	48.2	97	—13	May 21	Oct. 10
Northwood	23.6	22.2	35.3	52.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Norwalk	20.5	17.6	31.1	47.9	59.7	69.5	67.0	.....	65.0	44.8	40.4	32.6	.....	.....	—15	May 28	Oct. 1
Oberlin	21.7	19.0	31.9	50.5	60.4	70.3	70.2	72.3	67.9	45.1	38.8	32.5	48.4	99	—14	May 21	Oct. 2
Ohio State University	23.2	19.5	36.6	51.6	61.0	73.0	72.5	73.8	69.9	46.6	41.0	34.8	50.3	99	—10	May 22	Sept. 30
Orangeville	.....	17.4	31.3	49.0	59.0	69.6	67.5	69.3	.....	43.6	39.1	32.1	.....	.....	.....	May 22	Sept. 15
Ottawa	21.4	18.6	34.5	51.1	60.8	72.5	71.2	71.5	68.0	45.3	39.0	32.1	48.8	100	—10	May 22	Oct. 1
Pataskala	22.0	19.3	35.7	51.8	60.5	72.9	72.7	74.0	69.1	46.5	41.0	33.8	49.9	102	—10	May 22	Oct. 1
Peoli	23.3	18.0	33.9	53.4	61.5	75.9	71.5	73.9	69.1	46.2	42.0	.....	.....	100	.....	May 22	Sept. 28
Philo	.....	.....	.....	.....	.....	75.6	74.1	75.1	70.4	48.8	42.9	34.4	.....	.....	.....	.....	Oct. 1
Plattsburg	22.5	18.5	35.3	52.4	61.2	72.5	72.1	73.4	70.5	47.8	41.5	34.3	50.2	97	.....	May 22	Sept. 30
Point Marblehead (*h*)	20.8	18.2	29.6	47.1	61.4	73.2	73.7	74.5	71.4	.....	.....	.....	.....	.....	.....	.....	.....
Pomeroy	26.7	20.9	38.9	53.9	.....	75.6	73.8	74.6	70.4	48.5	.....	35.2	.....	102	— 8	Apr. 21	Sept. 30
Portsmouth	31.5	25.6	44.1	57.4	64.9	75.9	74.8	76.3	72.0	50.4	46.4	39.9	54.9	102	— 6	May 23	Sept. 30
Ridgeville Corners	19.5	17.6	32.9	50.9	60.0	70.7	70.9	72.5	68.0	45.5	37.4	30.0	48.0	97	—14	May 22	Oct. 1
Ripley	27.2	21.7	40.5	54.4	62.2	74.9	73.3	75.7	71.4	49.8	44.3	37.0	52.7	97	—13	May 15	Sept. 30
Rittman	20.6	17.7	27.2	46.8	57.3	68.9	67.8	70.4	63.6	43.4	38.2	31.6	46.1	96	—12	May 28	Oct. 2
Rockyridge	22.0	20.7	32.3	49.8	62.2	72.4	73.2	73.2	69.3	47.1	40.0	.....	.....	102	—10	May 21	Oct. 8
Rosewood	22.2	18.9	c31.0	51.5	59.8	71.3	71.7	72.6	68.4	45.5	39.9	33.4	48.8	97	—12	Apr. 13	Sept. 30
*Sandusky	22.0	19.8	31.1	48.8	60.5	71.6	71.6	72.8	68.8	47.2	40.8	33.0	49.0	98	— 6	Mar. 23	Oct. 20
Sharon Center	.....	19.9	35.0	.....	.....	76.5	75.9	78.5	70.4	50.3	42.8	32.4	.....	98	.....	May 21	Oct. 9
Shenandoah	20.9	17.9	31.5	49.2	59.4	70.5	69.9	71.8	66.8	44.3	39.0	31.0	47.7	97	—14	May 21	Sept. 30
Sidney	22.4	19.2	37.2	53.5	61.9	72.4	71.9	74.2	69.2	45.7	39.8	32.6	50.0	100	—12	May 22	Oct. 1
Sinking Spring	.....	.....	.....	.....	.....	.....	.....	.....	71.6	47.9	43.0	c36.2	.....	.....	.....	.....	.....
Sylvania	18.5	16.4	30.0	48.4	58.8	71.3	70.8	72.1	66.1	44.3	35.8	29.9	46.9	101	—15	May 17	Sept. 24
Thurman	28.6	22.5	38.7	54.9	63.1	74.9	75.8	76.9	72.2	47.3	42.7	37.8	53.0	106	—11	.....	Oct. 1
Tiffin	22.6	20.0	33.1	50.6	61.4	72.4	71.9	73.0	69.2	46.5	40.9	33.0	49.6	.....	.....	May 21	Oct. 1
*Toledo	19.8	19.0	30.6	49.4	60.8	71.6	71.2	72.4	68.1	46.2	39.0	30.6	48.2	94	— 7	May 21	Oct. 10
Upper Sandusky	22.3	19.1	33.9	52.0	61.4	72.0	71.0	72.5	68.4	45.7	40.8	32.8	49.3	96	—10	May 21	Sept. 30
Vanceburg	29.2	23.9	41.4	54.9	62.6	73.9	73.1	76.4	71.4	49.8	46.4	38.4	53.4	99	— 8	.....	Oct. 1
Vanwert	20.4	18.8	33.1	51.1	60.9	72.0	72.6	73.2	69.1	45.5	38.7	31.2	48.9	100	—12	May 22	Oct. 1
Vermilion	21.3	18.3	30.7	48.6	60.0	70.1	69.8	71.3	67.6	45.7	39.8	32.2	48.0	98	—11	May 21	Oct. 10
Vickery	21.6	19.1	31.3	49.3	59.5	70.3	69.3	72.5	68.6	46.0	39.7	32.6	48.3	97	— 8	May 22	Oct. 1
Warren	22.0	18.7	32.7	49.9	60.5	70.3	68.3	70.0	65.3	44.7	40.0	33.6	48.0	101	—16	May 22	Oct. 2
Warsaw	23.1	17.5	34.9	50.7	60.0	73.2	g69.1	.....	67.7	43.9	d38.3	c31.0	.....	.....	.....	May 22	Oct. 1
Wauseon	18.8	18.5	31.2	50.4	60.6	72.6	72.2	73.1	68.8	45.6	37.8	29.0	48.2	100	—16	May 22	Sept. 24
Waverly	27.6	23.3	41.4	55.7	63.8	75.3	75.1	76.9	73.2	49.5	43.2	36.4	53.4	102	—12	May 22	Sept. 30
Waynesville	.....	.....	.....	.....	.....	.....	.....	.....	70.9	g50.8	42.3	.....	.....	.....	.....	May 22	Oct. 1
Wellington	22.3	20.3	33.5	50.0	60.1	69.4	69.3	73.2	68.2	48.9	42.6	35.2	49.4	96	— 9	May 21	Oct. 10
Westerville	24.7	20.7	36.6	52.0	60.6	72.1	71.2	72.9	67.9	45.9	42.0	35.7	50.2	96	— 8	May 22	Sept. 30
Wooster	21.8	17.9	32.4	49.5	59.4	69.9	68.6	70.9	66.5	44.2	40.4	32.8	47.9	98	— 6	May 22	Oct. 1
Youngstown	22.0	18.5	33.6	49.8	60.6	72.1	68.8	69.9	66.0	44.8	39.9	32.3	48.2	98	—10	May 21	Sept. 28
Oklahoma.																	
Alva	.....	.....	49.5	61.9	67.5	75.8	77.8	80.1	75.0	54.9	44.2	35.1	.....	105	.....	Mar. 22	Sept. 23
Anadarko	36.0	33.1	53.4	66.8	72.4	.....	.....	83.3	80.4	58.0	47.8	40.8	.....	.....	— 9	Apr. 3	Oct. 28
Arapaho	31.8	27.1	48.5	61.8	69.4	76.2	77.6	79.4	75.9	55.2	44.0	36.4	56.9	102	—12	Apr. 6	Sept. 23
Buffalo	.....	37.8	49.4	57.5	72.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 6	.....
Burnett	35.0	32.6	52.1	64.0	69.5	76.0	78.4	80.0	78.8	57.0	46.2	40.8	59.3	102	—15	Mar. 21	Sept. 30
Clifton	32.0	31.6	50.4	64.5	70.6	78.6	80.4	80.0	77.3	55.6	46.3	37.9	58.8	102	—21	Apr. 2	Sept. 30
Enid	.....	.....	.....	.....	.....	77.6	79.6	81.2	77.4	.....	.....	.....	.....	.....	.....	.....	.....
Fort Reno	31.4	27.7	48.6	62.4	61.3	76.4	79.0	80.4	77.7	56.2	44.2	38.4	57.2	104	— 7	Apr. 3	Oct. 20
Fort Sill	35.6	31.4	52.0	65.2	70.7	76.8	78.7	80.9	78.4	57.1	46.4	40.8	59.5	105	— 7	Mar. 21	Oct. 28
Guthrie	33.7	30.8	51.6	66.4	72.2	78.8	81.0	81.2	77.6	57.5	46.4	40.0	59.8	103	— 9	Mar. 20	Sept. 23
Hennessey	.....	.....	.....	67.9	h74.2	.....	80.6	.....	.....	60.2	49.4	.....	.....	.....	.....	.....	Oct. 20
Keokuk Falls	.....	27.8	50.0	61.2	69.1	79.0	79.8	79.2	77.0	54.7	47.8	40.6	.....	102	.....	Apr. 3	Sept. 29
Mangum	38.6	32.4	52.1	63.7	71.0	78.1	76.6	79.4	75.0	57.3	46.3	40.8	59.3	106	— 5	Mar. 21	Nov. 1
Norman	35.1	31.9	51.1	66.2	73.0	80.7	81.0	82.3	76.8	57.2	46.4	d39.0	60.1	105	— 7	Mar. 21	Oct. 20
*Oklahoma	33.2	29.5	50.0	63.1	69.3	76.8	78.3	79.1	76.1	55.7	45.0	38.4	57.9	100	— 8	Mar. 21†	Nov. 1
Ponca	31.2	30.2	48.9	64.6	70.6	78.5	81.7	79.6	75.2	54.5	43.6	35.6	57.7	106	— 9	Mar. 20	Sept. 22
Pond Creek	28.8	27.8	46.8	61.8	69.8	75.6	76.2	78.7	76.4	54.4	42.1	34.2	56.0	104	— 8	Apr. 19	Sept. 23
Sac and Fox Agency	33.2	31.3	50.6	63.9	68.7	76.2	78.2	78.7	76.0	56.7	46.2	40.0	58.3	100	—12	Mar. 20	Sept. 29
Stillwater	.....	.....	.....	.....	69.4	77.7	78.4	79.8	77.6	55.0	45.9	38.1	.....	103	.....	.....	Sept. 24
Winnview	32.8	27.8	51.4	63.1	70.6	77.1	79.4	79.2	77.9	55.0	*42.8	.....	.....	104	.....	Mar. 21	Sept. 23
Woodward	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45.5	36.5	.....	.....	.....	.....	Oct. 28
Oregon.																	
Albany	39.5	43.2	46.0	52.0	56.1	62.6	66.1	65.8	57.6	53.8	43.6	42.4	52.4	101	23	Apr. 28	Sept. 22
Arlington	27.9	41.9	44.2	53.6	58.7	67.6	71.6	72.3	59.0	53.9	42.0	37.1	52.5	101	7	.....	Nov. 11
Ashland	37.6	43.4	44.7	51.0	53.5	63.0	67.9	68.8	58.2	56.2	39.4	36.2	51.5	104	7	May 9	Sept. 21

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.																	
[a]Astoria	40.3	44.6	45.7	49.2	54.5	58.0	62.0	61.4	56.2	55.4	45.8	43.2	51.4	91	27	Mar. 14	Dec. 16
Aurora (*g*)	41.4	45.6	48.5	55.3	60.1	68.0	70.6	68.7	60.1	56.9	46.2	44.0	55.4	97	20	.....	.....
Aurora (near)	38.1	42.6	45.6	51.2	54.5	60.0	63.4	63.6	55.9	53.2	42.2	40.6	50.9	97	20	.....	.....
[a]Baker City	25.6	29.0	37.8	47.7	51.4	57.6	64.4	65.5	52.2	50.6	34.2	27.0	45.2	94	— 3	June 17	Sept. 21
Bandon	44.3	47.0	46.3	49.8	54.4	56.4	58.8	56.6	55.6	52.8	47.6	46.8	51.4	78	24	.....	.....
Beulah	.....	.....	34.3	44.9	54.2	60.6	67.8	66.0	.....	42.1	32.6	24.2	.....	.....	.....	June 16	.....
Brownsville (*g*)	40.9	42.5	44.4	52.8	58.2	66.4	70.5	68.5	57.9	54.2	42.3	42.6	53.4	.....	.....	.....	.....
Burns	18.8	21.0	27.4	39.9	44.0	.....	59.6	58.7	44.9	44.1	30.2	.....	.....	.....	.....	.....	.....
Canyon City	32.5	38.7	42.4	52.0	56.0	62.9	69.6	70.2	58.0	58.9	43.0	37.3	51.8	104	3	Feb. 28	.....
Cascade Locks	33.1	42.0	44.9	52.6	56.8	64.6	68.6	67.7	52.4	56.0	43.6	38.7	51.8	100	20	.....	.....
Comstock (*g*)	38.8	.....	43.6	51.1	56.3	62.4	66.1	65.1	55.7	52.8	41.9	42.4	.....	.....	.....	.....	.....
Condon	.....	.....	38.0	46.6	53.8	61.7	65.2	65.4	.....	.....	.....	.....	.....	.....	.....	June 14	.....
Cornelius	36.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Corvallis	38.3	41.6	43.9	50.1	53.9	60.3	.....	64.6	55.4	52.6	41.8	40.0	.....	.....	.....	.....	Sept. 20
Corvallis (near)	38.4	42.4	44.4	50.9	56.2	62.1	66.8	67.2	57.2	53.7	42.8	40.5	51.9	100	22	.....	.....
Crook	27.7	.....	.....	46.9	49.8	55.6	.....	.....	.....	.....	.....	27.7	.....	.....	.....	.....	.....
Dayville	.....	.....	.....	.....	.....	61.7	66.6	67.0	56.8	[f]54.8	.....	[d]36.3	.....	.....	.....	.....	.....
Detroit	31.8	36.2	40.0	49.5	53.6	61.4	65.2	66.0	54.8	51.8	38.1	33.6	48.5	101	12	.....	Sept. 6
Eugene	40.2	43.0	44.8	51.6	55.2	60.8	64.4	65.4	57.8	53.0	42.6	42.6	51.8	96	22	Apr. 4	Sept. 20
Fife	.....	.....	33.6	37.0	45.2	53.3	59.6	61.6	50.3	50.0	34.4	27.4	.....	96	.....	.....	.....
Forestgrove	35.3	[d]42.1	43.6	50.4	54.8	.....	.....	.....	.....	53.6	41.4	39.1	.....	.....	19	Feb. 9	Oct. 30
Gardiner	43.4	48.2	47.4	51.2	53.8	.....	.....	.....	55.8	54.1	47.6	46.4	.....	.....	20	.....	Nov. 3
Glenora	34.8	41.0	42.2	47.2	51.2	58.2	60.8	61.4	54.2	53.0	40.8	37.8	48.6	100	18	Mar. 6	Oct. 27
Grants Pass	38.4	44.8	45.2	52.4	56.8	63.0	68.6	67.0	58.2	55.6	40.6	39.3	52.5	105	15	.....	Oct. 29
Happy Valley	27.8	33.8	35.6	44.5	50.0	55.6	61.5	63.2	51.1	47.4	33.2	26.6	44.2	99	—11	.....	.....
Heppner	30.8	40.0	41.8	[d]50.5	[c]52.3	61.8	65.7	67.0	54.3	.....	.....	[e]37.0	.....	95	.....	.....	Sept. 21
Hood River (near)	30.6	38.1	40.4	48.0	52.2	[f]61.4	62.5	63.4	52.3	50.6	38.9	34.2	47.7	91	7	Mar. 30	Sept. 21
Hubbard	37.2	41.4	44.0	49.6	55.2	60.0	64.0	63.4	55.2	52.0	41.4	40.0	50.3	98	22	Apr. 29	Sept. 9
Jacksonville	36.0	42.3	44.6	51.1	55.9	63.2	67.4	68.0	57.4	55.0	38.2	36.6	51.3	102	19	May 9	.....
Joseph	22.5	27.4	33.4	44.7	48.6	54.0	60.4	61.7	48.2	47.2	31.6	25.0	42.1	91	— 4	.....	Sept. 6
Junction City (*g*)	34.2	37.5	38.9	46.3	56.2	62.3	66.9	66.8	58.3	55.4	40.6	43.0	50.5	.....	.....	.....	.....
Klamath Falls	.....	.....	.....	.....	53.8	64.0	67.2	67.4	56.5	55.5	43.7	.....	.....	97	.....	May 22	.....
Lafayette (*g*)	38.9	42.7	40.6	55.8	60.1	67.4	70.0	68.0	57.5	53.5	46.5	44.4	54.2	.....	.....	.....	.....
Lagrande	30.8	36.9	40.6	50.4	52.6	60.0	66.4	67.0	.....	.....	.....	.....	.....	.....	.....	May 9	.....
Lakeview	20.3	23.2	31.0	.....	.....	[d]60.8	65.0	65.2	53.6	50.3	33.2	24.6	.....	90	—19	.....	.....
Langlois	45.1	47.6	46.4	49.7	54.6	56.3	60.0	59.0	56.7	55.2	50.2	49.3	52.5	90	26	Mar. 15	Nov. 22
Lonerock	26.2	34.4	36.0	44.6	47.5	.....	58.6	60.4	48.7	49.0	36.2	.....	.....	.....	.....	June 17	.....
Long Creek	.....	34.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lorella	.....	32.9	36.5	50.7	54.0	64.8	66.6	66.5	53.4	54.6	38.8	30.0	.....	104	.....	June 16	Sept. 7
McMinnville	37.2	42.2	44.5	50.4	55.1	61.3	65.2	65.8	56.2	53.2	41.5	39.7	51.0	101	21	.....	Sept. 21
Merlin (*g*)	35.3	30.5	42.0	50.6	58.9	68.7	69.7	68.8	59.4	52.7	39.0	37.2	51.1	.....	.....	.....	.....
Monmouth (*g*)	42.3	45.8	48.3	56.1	59.7	67.2	69.5	69.7	58.7	54.2	43.9	41.3	54.7	.....	.....	.....	.....
Mount Angel	38.6	42.8	45.2	52.5	56.5	63.8	67.6	67.2	57.8	54.1	42.2	40.4	52.4	102	22	Mar. 17	Sept. 21
Mount Hood	.....	.....	.....	.....	.....	.....	52.4	54.7	42.2	.....	.....	.....	.....	.....	.....	.....	.....
Newberg	.....	.....	.....	.....	.....	.....	.....	.....	.....	56.2	[e]43.0	[e]41.8	.....	.....	.....	.....	.....
Newbridge	.....	.....	.....	50.4	57.0	64.5	69.9	72.0	55.7	54.8	43.8	30.8	.....	100	.....	May 9	.....
Newport	45.7	45.4	45.8	47.6	51.6	54.2	57.8	55.3	54.2	53.1	47.0	44.6	50.2	94	22	.....	.....
Pendleton	30.8	41.4	48.4	52.9	57.8	65.4	69.9	69.8	56.6	52.4	41.8	37.0	52.0	107	5	.....	.....
[a]Portland	37.3	42.8	45.9	51.5	55.9	62.2	65.6	65.4	57.4	56.0	43.6	40.8	52.0	97	25	Apr. 4	Nov. 5
Riddles (*g*)	37.8	42.4	42.9	48.6	54.1	61.2	66.5	64.6	53.9	51.4	38.9	38.3	50.0	.....	.....	.....	.....
[a]Roseburg	40.1	44.7	45.7	51.9	55.8	61.9	66.0	65.8	57.2	54.4	42.6	41.8	52.3	98	20	Apr. 14	Nov. 7
Salem (*g*)[1]	.....	49.0	51.9	59.4	61.7	67.0	69.6	67.9	61.5	57.5	48.6	48.9	.....	.....	.....	.....	.....
Salem[2]	39.0	42.5	44.3	51.6	54.9	61.2	64.3	60.1	57.0	53.6	43.8	42.2	51.2	98	22	.....	.....
Salmon	.....	.....	.....	.....	45.2	51.8	55.5	57.0	46.4	52.2	36.2	30.2	.....	.....	.....	.....	.....
Sheridan (*g*)	39.2	43.9	45.9	53.7	57.9	65.7	67.4	67.6	57.9	55.7	45.8	42.7	53.6	.....	.....	.....	.....
Silverton (*g*)	37.8	41.2	43.6	53.1	55.9	64.1	67.4	65.6	55.6	53.2	41.5	48.4	52.3	.....	.....	.....	.....
Siskiyou (*g*)	33.8	42.3	43.7	53.4	57.1	67.3	71.9	70.3	56.9	60.4	42.4	33.4	52.7	.....	.....	.....	.....
Sparta	24.5	28.8	35.4	46.8	49.7	56.4	65.3	67.0	53.6	52.2	33.6	26.1	45.0	94	1	June 15	Sept. 19
Springbrook	38.3	42.6	45.5	51.2	55.2	62.4	66.8	67.7	57.8	.....	.....	.....	.....	99	.....	Mar. 14	.....
Springfield (*g*)	37.6	40.1	43.4	51.2	56.7	66.7	67.7	66.9	55.1	60.4	36.3	38.9	51.8	.....	.....	.....	.....
The Dalles	29.7	41.8	45.2	53.9	58.3	66.8	70.1	70.5	59.4	54.2	41.8	36.6	52.4	101	8	Apr. 21	Oct. 27
Toledo	42.4	46.9	45.9	48.6	52.1	57.2	.....	.....	.....	55.5	45.1	44.6	.....	.....	18	.....	Nov. 5
Vale	24.5	27.9	39.4	50.2	56.0	61.8	69.3	67.8	54.7	48.8	34.4	26.2	46.8	101	—10	.....	.....
West Fork (*g*)	38.9	43.6	45.9	52.2	57.0	64.9	68.3	68.6	57.5	53.9	43.8	41.8	53.0	.....	.....	.....	.....
Weston	31.8	39.7	42.6	52.4	54.8	62.4	66.6	65.8	55.6	52.6	38.8	33.8	49.7	102	6	.....	Oct. 23
Williams	38.4	42.6	44.6	51.1	55.3	61.8	64.2	64.8	56.4	53.7	40.0	39.2	51.0	100	17	.....	.....
Pennsylvania.																	
Altoona	33.9	30.1	41.7	54.5	65.0	75.5	[d]73.3	72.7	60.3	49.1	44.4	37.6	53.9	99	— 3	May 17	.....
Aqueduct	25.8	23.8	36.8	51.4	63.2	74.9	72.5	74.2	68.4	49.6	43.3	33.9	51.5	104	— 5	.....	.....
Blooming Grove (*a*)	21.3	18.7	30.6	45.8	60.0	70.3	67.5	69.1	64.6	.....	.....	.....	.....	99	.....	May 22	Aug. 22
Carlisle	24.2	22.2	36.1	51.0	61.9	73.0	69.9	74.8	69.8	49.2	42.8	33.6	50.7	100	— 4	May 17	.....
Cassandra	22.4	17.5	33.3	49.2	59.5	70.6	65.8	68.8	64.2	44.0	41.2	33.8	47.5	98	—14	May 22	Sept. 15
Chambersburg	24.0	21.2	36.8	48.9	60.0	71.0	69.2	71.5	67.8	47.8	42.5	33.6	49.5	96	— 5	.....	.....
Coatesville	27.3	22.1	36.2	49.8	61.4	72.4	70.8	74.9	69.8	48.4	44.8	36.2	51.2	100	— 6	May 22	.....
Cooperesburg	27.0	24.0	35.4	49.4	60.7	71.2	70.0	74.3	68.4	48.6	44.8	36.8	50.9	95	— 6	May 17	.....
Drifton	[e]25.1	[e]20.0	[e]32.4	[d]47.2	[e]57.8	[e]68.0	[e]65.9	[d]68.6	[e]66.2	[d]45.4	[d]40.0	[f]28.0	47.0	93	—12	May 21	.....
Dyberry	18.2	14.8	27.4	44.4	56.8	67.7	64.8	67.4	62.3	42.2	39.9	30.2	44.7	95	—15	May 23	Aug. 22
East Mauch Chunk	22.8	20.5	33.0	48.6	60.8	71.5	68.9	71.0	66.6	45.4	42.4	33.2	48.7	98	— 9	.....	.....
Easton	25.0	21.9	34.8	49.6	61.4	72.5	70.7	73.1	67.8	47.0	44.0	35.9	50.3	95	— 9	May 17	.....
Edinboro (*a*)	19.4	17.6	27.8	46.6	58.0	68.9	66.4	68.2	63.3	44.0	38.1	30.8	45.8	90	0	May 12	.....
Emporium	19.5	14.9	30.8	49.1	60.0	69.8	67.0	68.6	63.8	44.6	41.1	33.2	46.9	98	—26	May 22	.....
[a]Erie	24.0	19.0	29.3	44.8	58.8	69.5	67.7	70.0	65.8	45.8	41.4	33.1	47.4	91	— 9	May 22	Sept. 16
Forks of Neshaminy (*a*)	31.4	27.2	39.0	52.1	[d]60.7	72.1	71.8	73.4	69.5	49.0	45.0	39.2	52.5	.....	.....	May 17	.....
Gettysburg	.....	.....	36.2	49.8	60.9	71.3	70.0	74.4	69.2	47.9	42.8	33.4	.....	99	.....	.....	.....

[1] Pacific Railway system. [2] C. T. Roberts.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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—Cont'd.																	
Grampian	18.7	16.0	29.6	47.2	59.6	72.3	67.8	69.7	65.1	43.4	38.4	29.2	46.4	100	—18	May 17	Aug. 22
Greenville	21.0	16.0	29.6	47.4	58.6	69.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 21	.....
Hamburg	26.2	22.6	35.0	49.8	62.2	72.8	70.7	74.8	70.8	49.8	45.1	36.8	51.4	100	— 8	.....	.....
[a]Harrisburg	25.4	23.0	35.9	50.6	61.8	73.4	71.4	75.0	69.6	49.7	44.0	35.1	51.2	97	— 4	Apr. 11[f]	Oct. 10
Hollidaysburg	21.9	19.0	35.4	49.7	61.8	[c]71.8	68.3	72.0	68.0	[f]46.0	42.2	32.4	49.0	101	—14	May 22	.....
Honesdale	22.5	18.3	30.4	45.8	58.6	69.5	.....	.....	62.4	43.2	41.2	31.4	.....	.....	—12	May 22	Sept. 15
Huntingdon (*a*)	24.2	20.8	37.2	50.0	61.3	71.4	68.0	72.0	68.8	48.5	43.6	34.2	50.0	99	—10	May 22	Sept. 15
Johnstown	25.0	.....	.....	52.0	61.6	71.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 22	.....
Kennett Square	28.3	23.6	38.3	50.2	61.2	72.4	71.0	74.1	70.2	49.8	45.6	37.0	51.8	97	— 6	May 17	.....
Lancaster	28.1	23.2	37.2	50.3	61.2	72.5	71.3	.....	69.0	49.2	44.8	[d]36.0	.....	.....	—10	.....	.....
Lebanon	23.9	22.1	[d]34.1	49.1	61.0	72.2	70.6	74.6	69.4	48.2	44.0	35.4	50.4	100	— 6	May 17	.....
Leroy	18.9	15.7	26.6	44.8	59.0	69.8	66.0	69.0	63.7	43.8	38.8	30.2	45.5	94	—18	May 22	Sept. 15
Lewisburg	18.9	17.8	34.2	49.6	61.2	72.0	68.8	72.4	67.2	47.0	42.8	33.8	48.8	99	—16	May 20	.....
Lockhaven	26.4	19.4	33.5	50.8	63.2	73.5	[e]71.4	[d]73.4	67.8	48.4	42.8	34.6	49.9	103	—15	May 17	.....
Lycippus	24.1	17.8	33.4	51.8	63.6	73.1	70.0	72.1	70.2	49.8	43.0	[e]36.4	50.4	100	—10	.....	.....
*Philadelphia	30.6	25.4	38.1	51.6	62.4	74.1	73.2	77.4	72.4	52.6	46.8	39.2	53.6	98	— 3	Apr. 11[f]	Oct. 10
Philadelphia[1]	30.8	25.8	39.3	52.1	62.9	73.8	73.2	77.1	72.4	52.8	46.9	39.6	53.9	98	— 2	May 17	.....
Philadelphia[2]	.....	.....	.....	.....	.....	.....	73.0	76.9	73.0	53.4	49.0	39.2	.....	.....	.....	.....	.....
Phœnixville	27.7	22.4	37.3	50.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Pittsburg	27.0	22.8	36.4	53.6	63.3	74.7	71.6	74.5	71.0	49.8	45.4	37.4	52.3	98	— 6	May 22	Oct. 10
Pottstown	27.4	23.2	37.7	51.7	63.6	73.6	72.4	75.8	70.8	49.2	45.8	37.6	52.4	99	— 6	May 17	.....
Quakertown	25.4	20.7	34.0	47.9	59.5	70.7	68.8	72.6	68.4	46.6	43.2	34.7	49.4	98	— 8	May 22	Sept. 15
Reading (*b*)	25.4	21.4	35.4	50.0	61.8	72.2	70.6	73.2	67.2	46.4	41.2	34.3	50.0	.....	.....	.....	.....
Saegerstown	21.2	14.9	30.2	47.2	58.7	67.4	65.4	67.1	63.2	44.2	39.3	30.8	45.9	97	—25	May 22	.....
Salem Corners	22.6	18.5	29.4	.....	59.8	70.2	67.4	70.6	66.2	45.2	40.8	30.9	.....	96	—15	May 17	Aug. 22
Scranton	.....	.....	.....	.....	.....	.....	.....	.....	65.0	45.6	41.8	32.2	.....	.....	.....	.....	.....
Selinsgrove	.....	17.9	34.0	49.2	61.2	72.0	69.6	72.0	65.8	45.3	44.5	32.4	.....	98	.....	May 21	Sept. 15
Shinglehouse	16.8	9.8	28.2	46.1	56.6	66.7	63.0	.....	63.4	44.2	37.5	32.6	.....	.....	—23	May 23	Aug. 22
Smethport	18.9	14.8	28.3	46.0	56.9	66.6	63.8	66.4	61.8	42.8	38.0	31.4	44.6	94	—24	.....	.....
Somerset	18.9	20.4	32.6	47.8	57.2	78.5	66.4	69.7	66.6	45.7	40.8	33.0	48.1	98	—16	May 22	Sept. 14
South Bethlehem	24.8	22.1	34.8	49.2	62.6	72.8	70.0	73.2	71.4	51.1	46.1	39.0	51.4	97	— 6	May 17	.....
South Eaton	21.6	18.3	31.8	47.4	59.9	69.6	67.0	69.2	65.3	45.4	41.7	33.7	47.6	92	—11	May 22	Sept. 15
State College	21.8	19.0	32.4	48.4	59.3	71.0	67.2	69.5	65.7	47.0	41.9	33.1	48.0	94	—13	May 22	Sept. 15
Swarthmore	.....	.....	.....	.....	.....	.....	.....	.....	.....	49.3	44.6	36.3	.....	.....	.....	.....	.....
Towanda	19.0	17.5	29.4	46.8	59.6	70.1	67.3	69.6	64.6	45.0	41.8	32.4	46.9	96	—16	May 22	Sept. 15
Uniontown	27.7	21.3	37.2	51.4	59.2	[h]72.6	69.6	72.5	69.7	47.7	44.4	37.6	50.9	94	— 7	May 22	.....
Wellsboro (*a*)	18.6	13.6	26.6	42.7	55.8	65.0	62.7	63.6	58.7	41.0	38.0	30.0	43.0	93	—22	May 22	Sept. 15
West Chester	27.9	23.1	37.0	50.0	61.4	72.4	71.4	75.3	70.7	50.0	45.6	37.4	51.8	97	— 7	.....	.....
Westtown	.....	22.4	.....	.....	59.9	70.8	.....	.....	[d]69.6	48.6	44.6	37.2	.....	.....	.....	May 17	.....
White Haven	.....	.....	30.4	45.2	57.6	68.8	65.9	69.1	68.6	43.4	40.6	31.8	.....	97	.....	May 23	Sept. 15
Wilkesbarre	24.4	21.4	34.0	49.9	62.4	73.4	70.4	72.0	67.4	46.1	43.0	34.8	49.4	99	— 6	May 17	Sept. 15
Williamsport	.....	[f]23.3	32.6	50.0	61.5	71.2	68.9	71.7	66.6	47.4	41.1	33.4	.....	96	.....	May 22	Sept. 15
York	25.7	21.4	37.5	50.0	61.4	71.9	70.6	71.5	69.6	48.0	43.6	35.0	50.5	100	— 8	May 17	Sept. 15
Rhode Island.																	
*Block Island	31.4	25.0	34.8	42.4	52.6	62.3	66.8	69.4	65.0	50.8	46.8	37.4	48.7	85	— 4	Apr. 11	Nov. 21
Bristol	28.8	[f]23.2	.....	44.8	55.8	66.6	66.5	.....	.....	49.6	44.0	35.1	.....	.....	.....	May 2	Oct. 11
Kingston	26.9	21.7	33.6	43.8	55.8	66.2	67.4	69.4	64.5	47.1	43.9	33.6	47.8	95	— 7	May 19	Sept. 15
*Narragansett Pier	30.6	22.7	35.2	43.4	55.4	66.0	67.6	69.8	64.2	47.9	44.8	34.6	48.5	91	— 7	Apr. 18	Oct. 8
Pawtucket	28.3	24.9	36.2	47.2	59.5	68.0	68.0	70.7	64.6	47.0	44.1	35.3	49.5	93	— 4	Apr. 11	Oct. 10
Providence[3]	29.4	24.6	36.2	47.4	62.0	71.6	71.6	74.3	67.4	49.0	45.2	36.4	51.3	98	— 5	Apr. 11	Oct. 11
Providence[4]	27.3	22.7	34.2	45.4	58.7	67.6	68.4	70.9	65.7	47.7	44.2	34.8	49.0	94	— 7	May 2	Oct. 9
South Carolina.																	
*Allendale	.....	.....	.....	.....	70.2	79.4	80.4	80.0	76.2	60.9	54.4	.....	.....	104	.....	.....	Nov. 27
*Batesburg	.....	.....	.....	.....	67.8	78.9	77.8	80.8	76.7	59.4	.....	.....	.....	103	.....	.....	.....
*Blackville	46.4	38.4	55.3	62.8	70.2	80.0	81.5	80.4	77.0	60.6	52.6	44.8	62.5	102	7	Mar. 23	Nov. 21
Blenheim (*c*)	41.6	32.4	49.4	56.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 23	.....
Branchville	48.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Central	38.9	33.2	52.4	63.0	71.4	74.4	77.4	77.5	76.3	58.4	53.0	41.4	59.8	98	2	Mar. 24	Oct. 20
*Charleston	49.0	41.1	56.0	63.7	70.2	79.3	81.5	82.0	78.4	66.0	58.1	50.9	64.7	98	12	Feb. 24	Nov. 21
*Cheraw	42.4	34.3	52.4	60.2	68.0	78.5	80.6	79.3	75.7	57.6	52.0	44.6	60.5	104	4	Mar. 27	Oct. 22
*Columbia	45.2	37.3	54.3	61.9	69.2	78.9	79.8	79.7	77.6	61.0	54.0	46.2	62.1	102	8	Mar. 18	Nov. 13
Darlington (*a*)	43.5	36.0	[d]53.0	60.4	69.4	[e]79.9	[g]82.7	[e]80.2	.....	[e]61.4	.....	.....	.....	.....	.....	Mar. 18	Oct. 10
*Florence	.....	.....	.....	.....	69.4	80.6	81.4	81.8	78.6	60.6	[k]52.8	45.0	.....	103	.....	.....	.....
Georgetown	45.3	38.6	53.9	61.9	68.9	77.4	79.6	80.4	78.0	64.7	56.4	48.2	62.8	95	13	Mar. 17	Oct. 22
Gillisonville	.....	.....	56.8	63.1	68.4	79.0	81.0	81.1	76.8	63.0	55.9	47.2	.....	102	.....	Mar. 6	Oct. 21
*Greenville	.....	.....	48.6	58.0	66.8	75.4	76.4	77.0	74.2	57.6	52.6	43.0	.....	94	.....	Apr. 4	Oct. 29
*Greenwood	.....	.....	51.7	61.2	68.6	79.4	80.1	79.4	76.8	60.8	.....	.....	.....	102	.....	Mar. 22	Oct. 1
*Hardeeville	48.8	41.6	57.8	63.6	70.8	78.6	82.6	.....	.....	.....	.....	.....	.....	.....	.....	Mar. 23	.....
Holland	41.6	34.2	50.9	59.1	[f]70.6	77.0	77.5	77.2	76.3	59.6	51.7	[f]43.3	59.9	97	— 6	Apr. 4	Oct. 20
*Kingstree	.....	.....	.....	63.9	69.8	78.8	82.3	81.4	76.8	64.4	58.4	48.6	.....	105	.....	.....	.....
Little Mountain	44.8	38.0	53.8	62.0	69.1	78.5	80.4	79.0	80.0	64.1	56.0	48.2	62.8	104	3	Mar. 27	Nov. 21
Longshore	41.0	34.6	50.8	59.4	67.0	77.6	78.8	78.6	76.2	58.8	51.2	43.2	59.8	98	0	Apr. 15	Nov. 3
McCormick (*a*)	.....	40.5	51.9	61.4	[e]69.4	78.2	80.4	77.8	76.0	.....	.....	.....	.....	105	.....	Mar. 9	.....
Manning (*b*)	.....	.....	.....	60.6	.....	80.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pinopolis	46.6	38.9	54.7	61.1	68.0	77.1	78.5	78.0	75.0	61.5	54.9	46.6	61.7	92	10	Mar. 18	Oct. 21
Port Royal	49.4	42.0	57.4	64.7	72.6	80.9	82.6	82.9	79.3	66.2	58.1	50.8	65.6	97	13	Feb. 18	Nov. 21
Redhill (*c*)	.....	.....	.....	.....	.....	73.4	76.0	75.8	73.5	.....	.....	.....	.....	.....	.....	.....	.....
Ridgeway	43.1	35.2	52.4	59.9	66.0	76.5	78.5	78.0	76.7	59.6	52.4	45.8	60.3	96	7	Mar. 23	Nov. 4
*St. George	48.0	40.2	57.2	63.1	70.1	79.3	81.0	80.3	76.6	62.0	54.7	46.6	63.3	100	10	.....	Nov. 21
*St. Matthews	.....	.....	56.6	63.4	69.2	79.3	80.6	80.5	77.9	61.5	54.5	47.2	.....	100	.....	Mar. 17	Nov. 21
Santuck	41.8	34.0	49.4	59.2	66.8	76.1	78.0	77.9	75.4	57.1	51.2	42.5	59.1	96	— 3	Apr. 4	Nov. 3

[1] John Comly. [2] Knowles Croskey. [3] City Engineer. [4] Ladd Observatory.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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 Carolina—Cont'd.																	
Shaws Fork (a)	48.2	42.4	56.4	64.9	70.5	79.5	81.8	81.0	81.0	63.6	58.0	49.6	64.7	104	17	Mar. 23	Nov. 3
Society Hill	44.0	36.4	53.0	60.4	66.2	76.0	77.9	77.7	74.8	58.8	53.4	45.3	60.3	97	8	Mar. 22	Nov. 20
*Spartanburg	.....	.....	51.5	60.9	68.0	78.2	[f]79.6	79.5	77.4	58.3	51.2	[e]42.0	.....	106	.....	Mar. 22	Nov. 13
Statesburg	45.1	37.3	54.2	61.9	67.8	77.6	78.6	78.4	77.0	61.6	54.2	46.6	61.7	97	9	Mar. 21	Nov. 21
Timmonsville	46.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Trenton	46.6	38.5	54.9	62.6	69.8	80.1	79.8	79.5	78.3	63.1	55.8	47.9	63.1	99	5	Mar. 27	Nov. 13
Trial	49.5	40.4	56.5	62.2	68.7	77.8	79.5	79.7	76.7	62.7	57.1	49.3	63.3	99	10	Mar. 23	Oct. 10
Watts	42.4	36.2	52.0	60.3	68.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Apr. 4	.....
*Yemassee	.....	.....	.....	.....	.....	.....	.....	77.9	76.7	63.6	55.3	47.9	.....	.....	.....	.....	Nov. 13
Yorkville	41.5	35.7	51.0	59.6	66.4	77.0	77.6	77.8	76.8	59.7	53.0	45.0	60.1	98	4	Apr. 4	Nov. 21
South Dakota.																	
Aberdeen	—2.0	8.0	27.4	53.2	57.6	63.4	68.0	69.4	62.2	42.8	24.1	19.5	41.1	101	—46	May 21	Sept. 7
Alexandria	6.3	12.5	30.0	54.0	57.2	64.7	70.5	69.0	63.2	44.5	29.4	20.2	43.5	109	—34	May 21	Sept. 23
Ashcroft	10.4	16.2	30.8	48.6	52.2	59.7	68.0	67.6	58.2	44.8	28.4	24.6	42.5	106	—37	May 19	Sept. 7
Bowdle	1.2	12.0	30.7	54.2	61.0	65.5	73.1	69.9	60.7	45.2	.....	.....	.....	99	.....	June 10	.....
Brookings	4.4	10.0	29.4	52.4	57.0	64.0	69.2	67.4	62.7	44.3	29.4	20.1	42.5	100	—32	May 21	Sept. 23
Buffalogap	22.3	19.2	31.5	53.1	56.0	[e]62.3	71.0	.....	.....	.....	[e]32.3	30.4	.....	.....	—28	May 20	Oct. 6
Castlewood	1.9	7.2	[e]26.8	52.5	58.1	63.7	69.2	67.3	61.4	41.6	25.3	16.6	41.0	103	—37	May 21	Aug. 31
Clark	.....	7.2	29.6	54.4	.....	.....	.....	.....	.....	.....	26.6	17.8	.....	.....	.....	.....	.....
Cross	19.2	18.9	28.8	46.8	49.4	54.6	62.2	62.6	56.0	44.9	30.2	27.0	41.7	95	—28	July 7	Sept. 7
Desmet	[h]5.1	.....	24.4	.....	[e]50.8	58.4	.....	.....	62.2	.....	28.0	13.1	.....	.....	.....	May 12	.....
Faulkton	0.8	10.4	28.6	52.2	57.3	63.1	69.4	68.6	61.4	43.8	26.8	21.2	42.0	103	—39	May 21	Sept. 7
Flandreau	5.6	10.7	29.6	55.2	57.8	64.6	69.8	69.2	64.2	42.6	28.0	17.6	42.9	104	—34	May 21	Sept. 7
Forestburg	6.6	14.3	30.8	55.6	59.0	66.1	72.3	70.9	63.4	44.5	27.5	21.8	44.4	112	—39	May 26	Sept. 7
Forest City	.....	.....	.....	.....	.....	.....	73.7	73.4	64.5	45.5	29.3	24.6	.....	.....	.....	.....	.....
Fort Meade	15.0	.....	.....	50.6	58.2	59.9	69.6	70.9	65.0	49.4	32.7	32.3	.....	101	.....	.....	.....
Gary	—2.2	4.4	27.6	52.1	57.0	63.8	70.0	68.0	57.3	42.8	28.2	19.4	40.8	108	—39	June 28	Sept. 29
Goudyville (a)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26.9	17.4	.....	.....	.....	May 20	Sept. 6
Greenwood	13.7	19.7	33.8	57.6	60.9	67.2	74.4	74.7	68.4	49.6	34.6	27.6	48.5	106	—24	May 21	Sept. 30
Highmore	3.7	11.3	28.6	[e]53.5	57.0	63.8	73.1	72.4	[e]62.4	42.2	27.8	[e]23.2	43.2	104	—36	May 19	Sept. 6
Hotch City	10.2	15.0	32.9	54.1	58.6	64.3	72.4	72.3	65.4	47.5	29.7	26.0	45.7	105	—32	May 20	Sept. 23
Hot Springs	[e]19.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Howard	4.8	11.9	28.3	52.3	56.8	64.2	69.4	69.2	63.9	43.6	28.6	19.5	42.7	106	—32	May 21	Sept. 29
*Huron	4.3	13.2	30.8	54.8	57.4	64.6	71.2	70.0	63.7	45.1	28.8	21.6	43.8	103	—33	May 26	Sept. 23
Ipswich	2.6	9.9	28.3	.....	55.8	64.3	71.0	69.6	.....	.....	.....	.....	.....	.....	.....	May 26	.....
Kimball	8.8	15.2	32.2	55.6	58.9	65.4	73.1	72.2	65.4	46.4	30.6	24.6	45.7	103	—30	May 20	Sept. 23
Leslie	.....	.....	33.8	56.0	59.8	68.2	76.2	75.2	65.0	47.7	27.6	25.1	.....	.....	.....	.....	.....
Mellette	.....	.....	.....	.....	.....	64.3	70.4	72.1	[d]66.6	.....	.....	.....	.....	.....	.....	May 16	Sept. 7
Millbank	3.0	9.2	29.8	.....	57.5	64.4	67.8	66.8	60.2	[g]41.6	26.6	17.6	.....	.....	—29	May 20	.....
Mitchell	.....	.....	32.6	.....	.....	.....	.....	.....	.....	.....	.....	24.2	.....	.....	.....	.....	.....
Northville (a)	0.6	9.6	27.5	51.9	57.6	63.5	70.0	70.5	62.7	42.0	26.4	20.2	41.9	108	—40	May 21	Sept. 29
Nowlin	.....	.....	.....	53.5	60.0	64.4	72.8	72.3	63.2	44.7	30.8	23.9	.....	109	.....	May 19	Sept. 29
Oelrichs	15.2	17.2	31.0	51.4	54.8	61.2	69.8	.....	62.1	47.8	31.3	29.2	.....	.....	—38	May 19	Sept. 22
Parker	8.4	14.8	30.7	54.6	57.7	66.0	70.4	71.0	64.7	43.6	29.4	21.1	44.4	104	—29	May 26	Sept. 27
Parkston	6.4	14.4	29.8	53.2	[h]59.7	[e]64.8	70.4	69.8	61.4	48.9	.....	23.8	.....	103	—33	May 19	Sept. 22
*Pierre	8.7	17.4	34.1	54.9	59.6	65.8	73.4	73.3	65.6	48.4	30.8	26.5	46.5	106	—27	May 20	Sept. 23
Plankinton	8.3	15.0	31.9	55.6	58.2	64.8	71.2	71.4	64.5	44.4	29.0	23.3	44.8	103	—31	May 21	Sept. 28
*Rapid City	16.6	19.1	31.0	50.7	54.2	60.5	70.0	69.9	62.2	48.2	31.8	29.4	45.3	100	—24	May 20	Sept. 22
Rosebud	17.2	19.4	32.7	.....	57.6	63.7	71.5	71.6	63.2	46.0	.....	25.6	.....	104	—32	May 19	Sept. 29
Shiloh	6.0	12.6	[d]32.0	53.1	57.0	[e]64.0	71.2	71.0	69.6	44.7	.....	.....	.....	108	.....	May 21	Sept. 7
Sioux Falls	7.2	13.0	28.8	55.2	57.6	65.4	69.4	69.7	64.8	43.2	30.1	19.4	43.7	103	—30	May 21	Sept. 7
Spearfish	18.6	18.6	32.1	59.0	52.6	59.8	69.2	.....	.....	.....	.....	.....	.....	.....	.....	May 20	Sept. 21
Tyndall	13.4	19.0	33.7	.....	61.4	67.6	73.1	72.9	66.8	47.9	35.2	27.6	.....	102	—26	May 21	Sept. 29
Vermillion	13.1	15.6	35.2	56.9	[e]60.7	.....	.....	.....	.....	46.0	32.5	24.8	.....	.....	—27	May 20	Sept. 23
Watertown	2.4	.....	27.1	52.0	56.2	61.4	65.8	64.5	58.9	40.6	25.6	16.3	.....	100	.....	May 26	Sept. 7
Webster	3.6	9.6	28.0	54.9	56.4	62.0	67.2	67.3	63.0	42.6	26.2	16.6	41.4	104	—43	May 26	Aug. 31
Wentworth	4.6	11.2	29.1	54.0	57.0	64.0	69.1	69.2	64.4	43.2	28.0	19.4	42.8	103	—31	May 21	Sept. 23
Wessington Springs	8.4	14.4	32.4	55.7	59.1	65.0	72.0	71.8	65.7	48.0	30.3	24.6	45.6	101	—33	.....	Sept. 22
*Yankton	12.1	17.8	.....	.....	60.4	.....	72.5	72.9	64.0	47.8	33.0	25.6	.....	.....	—24	May 21	Sept. 30
Tennessee.																	
Andersonville (a)	31.9	30.0	45.4	55.9	63.7	74.5	73.9	74.4	71.1	50.6	46.1	40.4	54.8	97	— 8	May 14	Oct. 1
*Arlington	.....	.....	.....	.....	67.9	76.5	77.9	78.9	74.8	53.9	.....	.....	.....	.....	.....	.....	.....
Ashwood (a)	36.5	31.1	49.4	58.9	65.8	77.4	75.9	76.1	73.4	54.3	50.3	41.8	57.6	97	— 4	.....	Oct. 1
*Bolivar	37.4	31.2	50.4	.....	68.2	78.2	77.6	79.8	76.7	54.1	47.9	43.9	.....	98	— 6	.....	Oct. 2
Bristol	29.5	24.2	42.6	.....	.....	68.9	.....	71.8	69.0	49.2	47.6	37.7	.....	.....	—17	May 14	Sept. 30
*Brownsville	.....	.....	.....	.....	70.7	79.6	79.3	80.6	78.8	55.0	.....	.....	.....	.....	.....	.....	.....
Byrdstown	33.7	28.6	48.4	58.9	64.0	74.6	74.9	76.4	74.2	53.5	48.4	40.1	56.3	93	— 9	May 14	Oct. 20
*Chattanooga	37.9	33.8	49.8	60.0	65.4	75.9	76.2	77.4	75.3	57.2	51.5	42.6	58.6	97	— 2	May 14	Oct. 21
Clarksville	32.8	28.4	47.7	59.6	65.5	76.0	76.4	.....	74.6	53.9	47.6	41.0	.....	.....	— 8	May 14	Oct. 10
*Covington	34.6	.....	52.6	.....	70.1	79.9	79.1	80.0	78.0	56.5	52.0	45.1	.....	101	.....	.....	Oct. 20
*Dyersburg	.....	.....	.....	.....	69.3	79.2	78.8	81.1	75.8	52.6	48.0	42.1	.....	.....	.....	.....	.....
Elizabethton	.....	.....	.....	56.2	65.0	74.6	74.2	76.0	74.6	55.9	.....	.....	.....	102	.....	.....	Oct. 1
Fairmount (a)	[f]34.2	29.4	47.0	56.2	61.1	71.5	72.2	72.7	70.4	54.0	[e]47.8	[e]37.0	54.5	88	— 6	May 14	Oct. 1
Florence	34.5	29.5	48.4	59.0	64.3	76.2	75.8	77.1	74.0	54.0	50.2	42.6	57.1	97	— 6	.....	Oct. 9
Franklin	33.6	28.8	43.3	58.0	64.4	74.6	.....	.....	73.0	52.2	47.4	40.7	.....	.....	— 8	May 14	Oct. 1
Greeneville	34.3	27.4	46.2	56.0	61.8	72.8	72.8	73.9	71.8	52.8	48.9	39.4	54.8	95	—10	.....	Sept. 30
Harriman	33.5	28.8	46.0	56.2	.....	.....	.....	.....	.....	.....	49.4	.....	.....	.....	.....	.....	Oct. 21
Hohenwald (c)	34.6	25.7	44.6	55.8	62.8	71.2	73.6	72.8	68.8	.....	42.4	37.5	.....	.....	— 6	.....	Oct. 1
Jacksboro (d)	32.6	25.8	44.1	54.6	60.2	71.0	71.8	72.3	69.4	.....	47.7	.....	.....	94	— 8	.....	Oct. 10
Jackson	[e]33.6	[e]35.1	50.9	61.2	64.6	76.8	77.0	77.8	.....	54.2	48.7	41.4	.....	95	— 5	.....	Oct. 9
*Knoxville	35.2	30.5	47.8	58.6	64.1	75.4	75.5	76.8	74.8	54.8	49.4	40.6	57.0	96	— 7	Apr. 4[i]	Oct. 21
Lynnville (a)	37.3	29.8	47.7	60.1	.....	74.8	74.5	76.3	74.1	54.8	49.2	41.4	.....	96	— 3	.....	Oct. 2
McKenzie (a)	.....	.....	.....	.....	.....	.....	.....	.....	.....	54.6	49.6	41.0	.....	.....	.....	.....	Oct. 8
McMinnville	.....	30.2	46.2	58.7	64.8	75.8	73.4	75.4	73.0	50.8	49.4	42.2	.....	97	— 8	May 14	Oct. 1

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.																	
*Memphis	37.8	34.6	53.0	63.8	69.1	78.7	78.6	80.0	77.8	58.4	51.5	44.4	60.6	98	— 3	Mar. 21	Oct. 9
*Milan	.....	.....	.....	.....	67.4	77.7	77.4	78.2	76.1	53.8	.....	.....	.....	.....	.....	.....	.....
Mount Carmel	[b]37.2	31.1	50.6	61.2	67.0	75.4	76.0	77.7	75.7	56.7	52.8	40.4	58.5	92	— 4	.....	Oct. 8
*Nashville	34.6	30.2	48.6	59.8	65.5	77.3	76.8	79.0	75.9	55.8	49.3	41.4	57.8	96	— 6	.....	.....
Newport (c)	33.4	26.5	44.2	55.6	61.2	75.2	75.4	75.0	70.7	48.8	45.3	37.0	54.0	100	— 4	May 14	Oct. 1
Nunnelly (a)	36.4	32.0	49.7	61.0	67.4	76.4	76.3	76.9	74.3	54.1	49.4	42.0	58.0	95	— 4	May 14	Oct. 1
Parksville	38.6	32.8	48.4	58.6	65.3	74.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Riddleton	34.8	30.6	48.0	60.0	66.0	78.5	78.4	74.8	74.2	52.8	48.1	40.8	57.2	95	— 6	.....	Oct. 10
Rogersville (a)	33.7	28.2	44.8	55.8	61.7	69.7	73.3	73.6	70.4	51.2	50.4	.....	.....	96	— 8	May 22	Sept. 30
Rugby (a)	32.9	26.3	43.9	54.7	61.0	75.3	73.4	74.6	70.2	49.3	44.7	37.8	53.7	92	—12	May 14	Sept. 29
St. Bethlehem	33.6	28.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Savannah	.....	.....	[d]53.3	63.0	68.9	.....	78.6	80.8	78.8	.....	.....	.....	.....	.....	.....	.....	.....
Sewanee	.....	.....	.....	.....	62.0	72.2	.....	.....	.....	56.6	48.3	40.0	.....	.....	.....	.....	Oct. 20
Springdale (a)	33.2	28.9	46.2	59.0	62.2	73.2	76.7	76.5	[f]74.1	51.1	50.3	41.6	56.1	100	—20	May 21	Sept. 30
Trenton	.....	28.8	49.0	59.8	65.8	75.5	75.4	82.3	74.8	53.6	47.9	40.7	.....	95	— 5	.....	Oct. 1
Tullahoma (a)	34.2	29.1	46.6	57.3	62.8	71.6	70.9	71.1	69.4	51.2	47.0	41.8	54.4	92	— 9	May 14	Oct. 1
Waynesboro (a)	37.0	31.0	48.3	57.7	63.8	73.2	75.3	73.2	72.8	53.6	48.5	41.8	56.4	96	— 2	.....	Sept. 30
Texas.																	
*Abilene	41.6	33.2	55.7	65.6	70.0	77.0	79.5	81.2	76.8	60.6	50.4	45.2	61.4	100	— 4	Mar. 20	Nov. 1
Albany (a)	43.4	38.7	55.4	61.2	68.0	74.3	75.4	76.5	74.0	56.4	50.1	42.5	59.7	94	5	Mar. 17†	Nov. 11
Alice	.....	49.0	66.1	.....	.....	.....	83.7	.....	.....	.....	61.2	[d]58.7	.....	.....	.....	.....	.....
*Amarillo	33.4	25.3	46.1	56.4	63.6	69.1	72.5	74.2	70.2	53.1	42.2	35.0	53.4	95	— 7	Apr. 6	Oct. 31
Angleton	.....	.....	.....	.....	.....	80.0	82.2	81.2	78.8	68.8	60.8	56.3	.....	100	.....	.....	Nov. 20
Aurora (a)	42.5	38.0	57.1	68.3	70.6	77.9	80.2	81.4	80.5	63.7	52.2	46.5	63.2	106	0	Mar. 17†	Nov. 26
Austin[1]	43.3	42.8	.....	.....	77.6	82.7	84.6	85.2	81.7	64.4	59.7	52.0	.....	106	11	.....	Nov. 26†
Austin (c)[2]	49.9	43.0	60.7	68.8	72.6	78.2	84.7	84.5	81.0	66.7	56.2	53.4	66.6	.....	.....	.....	.....
Ballinger	.....	.....	.....	.....	.....	.....	.....	80.2	76.8	59.1	48.4	46.9	.....	.....	.....	.....	Nov. 1
*Beeville	.....	.....	.....	.....	.....	.....	.....	87.4	83.5	70.8	59.4	55.0	.....	.....	.....	.....	Nov. 26
*Belton	.....	.....	.....	.....	[d]76.3	80.7	86.8	86.8	.....	.....	.....	.....	.....	.....	.....	.....	.....
Boerne (a)	50.2	40.8	58.9	67.6	71.5	78.0	84.2	84.2	79.8	66.4	55.2	50.3	65.6	104	4	Mar. 16	Nov. 26†
Brady	45.4	.....	58.9	66.3	69.2	77.7	81.7	[d]80.4	80.4	[f]59.4	50.4	46.0	63.6	103	1	Mar. 17	Nov. 24
Brazoria	56.4	45.8	63.7	68.2	73.4	80.0	82.6	82.8	80.1	68.2	61.2	55.8	68.2	96	11	Feb. 17	Nov. 26†
*Brenham	[d]53.6	44.0	61.6	68.3	73.2	81.0	85.6	85.4	82.6	67.2	56.1	52.6	67.6	100	8	Mar. 16†	Nov. 26†
Burnet (a)	51.1	42.8	61.1	71.3	73.9	79.9	85.2	84.8	81.9	64.0	56.3	51.4	67.0	99	4	Mar. 4†	Nov. 26†
Camp Eagle Pass	54.4	46.8	65.2	72.1	76.4	84.3	89.4	87.4	81.6	68.0	56.6	51.9	69.5	107	12	Mar. 1†	Nov. 25†
Chillicothe	.....	.....	.....	.....	73.4	79.0	76.4	79.1	77.9	58.4	45.4	40.9	.....	104	.....	.....	Nov. 16†
Coldwater	[b]27.7	[c]21.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	36.4	.....	.....	.....	.....	.....
Coleman (c)	42.6	34.7	54.2	62.0	67.4	75.1	78.0	78.0	75.0	59.8	50.2	44.8	60.2	.....	2	Mar. 17†	Nov. 26†
College Station	49.2	42.4	59.0	67.3	70.1	77.0	81.8	82.4	79.6	[c]66.6	56.0	52.6	65.4	99	5	Mar. 16†	Nov. 28†
*Columbia	56.4	45.8	63.4	68.3	74.5	80.9	83.4	83.1	79.4	66.6	59.0	52.8	67.8	97	12	Mar. 2†	Nov. 20†
*Corpus Christi	57.3	46.8	62.8	70.3	74.3	80.4	82.0	82.0	79.9	70.8	61.6	56.9	68.8	93	16	Feb. 18	Dec. 30
Corsicana[3]	[c]47.6	42.6	59.4	69.0	72.1	78.6	83.6	85.0	84.4	65.1	[c]53.6	[d]50.2	66.0	104	3	Mar. 17†	Nov. 26
*Corsicana[4]	41.2	37.9	56.2	65.4	71.1	78.6	82.9	82.4	.....	61.4	53.0	47.2	.....	.....	1	Mar. 17	Nov. 20
*Cuero	60.4	47.8	64.6	71.2	75.4	81.8	85.6	86.0	81.8	70.2	59.6	54.0	69.9	101	11	Feb. 18†	Dec. 28
*Dallas	42.4	37.4	57.5	67.4	71.9	78.7	81.8	83.0	78.8	60.8	49.8	45.8	62.9	100	0	Mar. 17	Nov. 11
Dean	.....	.....	.....	.....	[c]64.9	71.2	73.6	74.2	69.8	51.8	[b]41.6	37.4	.....	100	.....	.....	Oct. 23†
Devine	.....	44.8	66.8	68.4	71.8	79.2	83.9	.....	80.2	67.7	.....	.....	.....	.....	.....	.....	.....
*Dublin	.....	.....	.....	.....	.....	.....	.....	.....	78.4	60.6	49.9	45.8	.....	.....	.....	.....	.....
Duval (a)	50.1	43.6	62.2	71.8	74.7	82.5	88.0	87.8	83.0	65.2	56.6	52.3	68.2	110	8	Mar. 16†	Nov. 26
*El Paso	45.8	44.2	57.0	64.8	70.1	77.5	79.6	78.7	75.2	61.2	50.2	42.4	62.2	100	8	Apr. 6	Nov. 10
Estelle	42.1	37.5	57.1	67.2	71.4	78.4	81.8	83.9	80.8	62.9	51.2	46.2	63.1	100	1	Mar. 17	Nov. 11
Flower Bluff	58.8	50.0	64.6	71.6	76.0	81.0	82.6	.....	.....	.....	63.4	58.0	.....	.....	.....	.....	.....
Forestburg	40.4	35.8	52.6	63.6	.....	74.4	78.6	78.6	77.4	60.1	50.4	40.4	.....	.....	.....	Mar. 20	.....
Fort Brown	61.0	.....	.....	72.6	75.6	80.4	85.0	85.3	81.0	73.1	65.5	61.4	.....	100	.....	Feb. 18	Dec. 30
Fort Clark	52.0	45.8	63.8	72.1	74.0	81.6	86.8	86.6	82.8	70.7	57.8	51.1	68.7	105	10	Feb. 29	Dec. 20
Fort Hancock	42.5	40.9	52.6	60.7	68.0	75.6	79.2	77.0	73.0	.....	.....	.....	.....	107	.....	Apr. 30	.....
Fort McIntosh	59.0	50.4	68.4	75.0	78.6	84.0	87.8	86.9	82.5	70.0	60.0	53.3	71.3	103	18	Feb. 23	Dec. 19
Fort Ringgold	60.0	50.8	68.7	77.6	80.6	82.0	87.2	87.7	82.2	70.6	62.0	55.9	72.0	105	20	Feb. 20	Dec. 28
Fort Worth	[d]45.1	.....	[b]58.4	[c]69.5	70.8	[c]78.2	[c]81.8	[d]84.7	[c]81.0	[c]67.8	[c]54.0	.....	.....	101	.....	Mar. 18	Nov. 20
Fredricksburg (a)	45.6	40.3	58.1	66.0	68.9	[c]77.0	82.7	81.5	78.3	61.1	52.2	[d]47.6	63.3	99	6	Mar. 17	Nov. 10
Gainesville	.....	.....	.....	.....	69.5	77.6	80.0	82.3	82.3	60.7	[f]51.2	.....	.....	100	.....	.....	Nov. 24
*Galveston	53.4	42.6	60.0	68.0	73.2	80.9	83.2	83.0	81.5	69.7	61.0	55.2	67.6	94	15	Feb. 18	Dec. 30
Georgetown (a)	.....	.....	.....	.....	.....	.....	.....	.....	78.0	62.1	52.9	48.0	.....	.....	.....	.....	Nov. 20
Goree (a)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47.2	42.4	.....	.....	.....	.....	.....
Graham	39.6	34.8	56.5	66.2	70.0	78.2	80.2	82.0	81.2	60.6	48.6	43.6	61.8	105	— 5	Apr. 3	Nov. 1†
Grapevine	41.6	37.1	56.6	67.0	70.0	77.2	80.6	83.3	80.3	64.6	53.1	48.3	63.3	102	0	Mar. 16	Nov. 11
Hale Center	41.6	37.5	54.0	62.8	68.2	72.6	73.7	75.6	71.3	57.4	48.4	44.2	58.9	96	— 6	Apr. 23	Nov. 1
Hallettsville	53.5	44.7	62.8	69.5	74.2	81.3	85.1	85.4	82.8	69.4	57.4	53.4	68.3	103	11	Feb. 20	Nov. 19
Happy	34.4	28.2	48.6	57.5	64.6	71.6	74.1	75.3	70.4	55.4	43.0	35.8	53.3	100	—13	May 11†	Sept. 23
Hartley	28.4	20.0	31.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Haskell	.....	.....	.....	.....	70.0	80.6	82.7	85.6	79.6	60.2	47.9	43.1	.....	103	.....	.....	Nov. 20
*Hearne	.....	.....	.....	.....	73.2	80.6	85.4	[c]84.5	.....	62.1	.....	.....	.....	.....	.....	.....	.....
*Henrietta	.....	.....	.....	.....	.....	.....	.....	83.8	81.2	61.2	.....	42.9	.....	.....	.....	.....	Oct. 28
*Houston	51.7	42.2	60.0	66.2	71.8	79.4	82.8	82.4	.....	[c]70.0	58.5	53.5	.....	.....	.....	Mar. 22†	Nov. 27
*Huntsville	50.2	42.1	58.5	68.4	72.2	79.7	83.6	83.4	80.9	65.4	55.4	50.3	65.8	98	6	Mar. 17†	Nov. 27
*Kerrville	.....	.....	.....	.....	.....	.....	.....	81.6	78.0	62.6	50.6	46.6	.....	.....	.....	.....	Nov. 27†
*Lampasas	46.0	36.3	56.0	65.1	69.8	76.8	83.8	83.8	80.6	62.4	54.6	50.9	63.8	106	0	Apr. 3†	Nov. 20
Leakey	54.2	46.4	62.8	70.0	72.7	79.2	84.7	84.5	80.6	64.8	55.0	51.2	67.2	99	10	.....	Nov. 2
Llano (c)	47.5	39.0	60.2	69.5	74.2	81.7	88.2	86.6	83.4	64.9	54.0	50.2	66.6	105	6	Mar. 17	Nov. 26
*Longview	46.0	41.4	59.1	67.0	72.2	80.1	83.8	84.8	81.3	62.2	53.2	48.4	65.0	102	2	Mar. 17†	Nov. 20
*Lufkin	.....	.....	.....	.....	.....	.....	.....	85.6	81.6	64.6	.....	.....	.....	.....	.....	.....	.....
*Luling	53.2	44.4	61.7	68.8	73.1	81.2	86.2	84.9	81.3	67.2	56.7	52.3	67.6	102	10	Mar. 2	Nov. 26
McGregor	43.4	.....	.....	65.0	69.6	78.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Marshall	47.0	39.5	55.8	65.4	70.8	79.3	80.6	81.2	78.9	63.8	54.1	49.1	63.8	99	0	Mar. 17	Nov. 20

[1] E. Krueger. [2] Q. C. Smith. [3] W. H. Hamilton. [4] Cotton region observer.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.																	
Menardville (*a*)	45.7	38.1	56.7	65.3	69.2	77.8	81.0	80.1	77.1	60.5	50.0	46.2	62.3	98	3	Mar. 17	Nov. 15
Midland	45.5	40.0	58.5	65.6	68.1	76.3	77.8	78.2	73.0	61.3	52.6	47.6	62.0	105	— 5	Mar. 16	Oct. 14
Mountain Spring	42.5	36.8	56.6	66.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mount Blanco (*a*)	37.2	30.3	51.5	60.8	66.9	71.6	71.8	77.2	71.8	55.5	44.4	38.6	56.5	99	— 5	Mar. 20	.....
New Braunfels	51.4	43.9	60.3	68.2	71.1	78.1	83.0	83.0	79.4	65.8	55.6	51.4	65.9	101	10	Mar. 2	Nov. 26
*Orange	52.7	44.0	61.2	65.9	72.8	79.7	82.2	81.6	79.5	64.2	57.0	50.2	65.8	96	11	.....	Dec. 4
*Palestine	46.0	40.0	58.3	66.0	69.4	78.2	81.4	82.3	80.5	64.8	54.7	50.2	64.3	100	— 1	Mar. 17	Nov. 11
Panter	[a]41.1	[b]36.4	.....	[c]68.2	70.8	[d]78.0	[b]82.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Paris	43.2	37.2	55.2	65.6	70.4	77.2	80.7	81.9	79.4	60.4	50.0	44.3	61.1	99	— 2	Mar. 17	Nov. 20
Roby	39.2	31.6	51.8	64.4	.....	[e]75.6	77.2	81.9	[e]78.6	[f]58.2	.....	.....	.....	108	.....	Mar. 20	.....
Rockport (*a*)	55.5	45.9	63.2	72.0	76.6	84.1	85.8	84.7	82.6	71.4	61.8	55.7	69.9	96	16	Feb. 17	.....
Rock Springs	51.4	40.8	[f]56.0	.....	.....	.....	82.0	81.0	[e]79.5	64.2	52.7	46.8	.....	.....	3	.....	Nov. 19
Round Rock	52.2	45.8	60.1	69.0	.....	80.5	87.0	.....	.....	65.2	.....	.....	.....	.....	.....	.....	.....
Runge	.....	.....	.....	72.4	75.4	81.3	85.9	82.7	83.8	72.0	59.9	57.3	.....	105	.....	.....	Nov. 26
*San Antonio	54.2	45.2	62.6	70.0	72.8	86.2	84.7	84.5	80.8	68.8	58.0	54.4	68.0	103	11	Feb. 17	Nov. 27
San Antonio [1]	54.6	45.9	63.1	70.8	73.8	80.8	85.8	85.6	81.9	68.8	58.0	54.9	68.7	104	12	Mar. 2	.....
*San Marcos	.....	37.9	57.8	69.2	75.0	82.6	86.0	86.6	82.1	66.6	.....	[e]53.0	.....	102	.....	.....	.....
*Sherman	43.4	.....	.....	.....	[g]70.6	.....	.....	83.4	.....	62.0	.....	.....	.....	.....	.....	.....	.....
Sierra Blanca	47.9	44.8	54.2	63.0	72.1	77.4	78.6	78.6	75.8	66.4	56.6	49.2	63.7	100	8	Apr. 5†	Nov.23†
Stafford	52.8	45.6	62.0	68.4	75.1	[h]82.0	85.4	82.7	80.7	66.7	57.3	53.5	67.3	102	8	Mar. 17†	Nov. 20
Sulphur Springs (*a*)	37.8	37.2	53.6	67.3	72.0	80.9	84.6	85.0	83.6	65.9	51.0	46.5	63.8	108	1	Apr. 21	.....
Temple	45.4	40.0	57.6	67.6	70.8	77.8	83.6	84.4	79.7	63.6	52.0	48.0	64.2	102	4	Mar. 16†	Nov. 25†
Twohig	.....	.....	.....	.....	.....	.....	[d]86.6	88.9	.....	.....	.....	[c]56.7	.....	.....	.....	.....	.....
*Tyler	44.6	39.2	57.6	65.2	70.4	78.4	82.5	81.8	79.7	58.8	53.2	45.8	63.1	102	1	Mar. 18†	Nov. 11†
*Waco	46.6	41.3	59.7	69.6	73.4	80.4	85.0	84.6	81.2	63.0	52.6	49.5	65.6	102	3	Mar. 17†	Nov. 11†
*Weatherford	42.0	36.4	55.9	66.8	70.2	77.8	81.8	82.2	79.5	62.6	51.0	46.3	62.7	100	— 1	Mar. 17†	Nov. 11
*Wichita Falls	37.0	34.2	54.1	64.8	69.3	75.4	78.8	85.0	81.6	62.6	48.8	39.8	61.0	102	— 5	Apr. 6†	Oct. 28
Utah.																	
Blue Creek (*g*)	23.6	28.3	[b]89.2	59.2	63.0	69.3	76.6	78.5	63.0	51.5	37.8	29.4	55.8	.....	.....	.....	.....
Castlegate	26.3	27.4	[b]31.6	51.3	.....	.....	.....	.....	.....	.....	27.6	23.8	.....	.....	— 5	.....	.....
Cisco	29.5	29.0	44.8	57.1	63.4	70.7	78.4	79.0	67.7	54.0	36.6	24.2	52.9	106	—12	May 3	Sept. 21
Corinne (*g*)	24.2	26.8	41.5	59.2	67.5	75.5	84.8	.....	68.7	55.5	32.2	24.6	.....	.....	.....	.....	.....
Deseret	24.6	23.7	[c]35.9	49.0	.....	[c]64.2	[b]70.6	[c]70.8	61.4	[f]51.2	[f]33.4	[c]20.8	.....	.....	—19	Apr. 24	Sept. 21
Fillmore	25.4	27.2	36.0	48.6	56.0	61.4	69.4	73.4	63.0	55.5	38.4	25.1	48.3	110	—17	June 19	Sept. 15
Fort Duchesne	8.5	7.3	27.9	47.9	55.2	60.4	64.6	69.8	60.4	47.5	27.1	2.4	39.9	97	—33	.....	.....
Giles	[m]28.8	29.2	42.8	54.0	62.4	69.4	76.6	77.8	65.8	51.5	32.8	23.3	51.2	105	— 7	May 12	Sept. 22
Green River	18.2	.....	.....	.....	62.8	71.4	80.0	75.2	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grouse Creek	17.3	23.0	31.4	43.8	50.8	56.2	63.9	65.2	52.4	43.2	.....	.....	.....	95	.....	Apr. 7	Sept. 5
Grover	20.9	25.9	33.9	43.8	50.8	55.6	60.5	62.7	58.6	46.2	31.4	22.9	42.8	92	—12	June 9	Sept. 20
Heber	18.4	17.3	29.6	46.4	53.0	57.6	65.0	66.1	56.2	[c]46.4	32.6	[c]13.9	41.9	96	—26	June 21	Sept. 3
Kelton (*g*)	18.8	19.7	34.6	46.9	62.5	69.8	75.0	74.6	62.9	54.1	32.7	31.9	48.6	.....	.....	.....	.....
Koosharem	20.2	22.0	29.4	42.4	50.4	55.3	63.1	64.3	56.2	45.6	30.4	20.4	41.6	93	—18	June 19	Sept. 20
Levan	21.3	20.6	34.4	51.5	57.6	63.5	74.2	76.2	65.9	50.8	32.9	21.2	47.5	95	.....	June 17	Sept. 22
Loa	19.5	23.8	32.4	40.9	.....	.....	63.8	64.7	55.1	43.0	30.0	19.2	.....	.....	—26	.....	Sept. 5
Logan	[c]19.6	22.3	34.2	48.4	54.3	60.2	68.8	72.0	58.4	52.1	31.3	21.1	45.2	92	—22	June 17	.....
Manti	17.6	24.5	39.3	54.1	68.4	71.5	74.8	72.0	62.7	51.5	33.7	20.8	49.2	110	—20	Apr. 8	Sept. 22
Moab	31.2	32.2	47.0	57.2	64.2	68.6	77.0	77.4	66.4	52.4	38.5	26.5	53.2	102	— 3	Apr. 8	Sept. 22
Mount Pleasant (*a*)	24.0	26.7	33.7	46.8	53.4	63.1	70.8	72.6	62.2	53.8	35.4	23.8	47.2	95	— 6	Apr. 7	Sept. 22
Ogden (*g*) [2]	27.9	27.9	39.3	52.1	60.0	66.6	75.3	76.4	62.0	53.4	35.5	26.6	50.2	.....	.....	.....	.....
Ogden [3]	29.8	30.2	41.7	54.6	62.4	69.6	77.4	78.6	62.8	53.6	.....	.....	.....	92	.....	Apr. 6	Oct. 27
Orton	.....	.....	.....	.....	.....	57.0	64.4	65.8	54.2	.....	.....	.....	.....	.....	.....	June 20	Sept. 12
Pahreah	27.0	35.3	44.6	54.8	61.8	75.6	75.0	74.3	65.3	53.6	39.0	28.2	52.9	102	— 2	Apr. 10	Oct. 13
Paronan	25.4	28.6	37.6	48.5	55.8	61.7	68.4	70.8	60.4	49.3	34.3	23.3	47.0	94	—11	June 1	Sept. 22
Promontory (*g*)	25.2	25.8	39.4	49.2	58.7	70.8	78.6	77.4	68.6	57.9	34.6	19.8	50.5	.....	.....	.....	.....
Provo City	23.2	[c]23.0	36.6	48.6	[d]54.8	63.4	.....	67.8	58.8	.....	28.4	.....	.....	.....	.....	.....	.....
St. George	34.1	40.9	47.8	57.6	66.1	72.5	79.8	80.5	70.2	57.3	42.2	31.6	56.7	113	0	Apr. 6	Sept. 21
*Salt Lake City	29.7	30.0	40.8	51.2	57.9	63.5	72.6	74.8	63.8	54.3	37.8	26.4	50.2	97	0	June 18	Sept. 22
Scipio	.....	.....	.....	.....	.....	62.3	68.4	68.4	.....	46.9	[c]32.0	21.3	.....	.....	.....	June 18	Sept. 20
Snowville	18.0	19.8	34.2	46.6	53.6	57.0	65.8	67.2	56.0	46.2	31.2	20.0	43.0	96	—18	June 23	Sept. 22
Soldier Summit	13.1	19.8	28.2	43.3	48.2	52.6	57.8	61.0	52.6	41.8	23.4	13.8	38.0	96	—20	.....	.....
Terrace (*g*)	21.2	29.1	40.3	54.5	62.5	72.0	82.2	.....	64.5	56.6	31.3	21.2	.....	.....	.....	.....	.....
Thistle	26.6	26.6	37.8	46.2	55.8	58.6	65.5	67.0	58.3	41.6	28.9	14.2	43.9	99	—15	June 18	Sept. 2
Vernal	21.0	21.4	30.6	49.8	55.0	61.4	69.0	70.9	60.8	47.0	29.6	12.2	44.1	94	—19	May 10	Sept. 22
Vermont.																	
Brattleboro	19.0	17.7	27.0	45.0	60.4	70.2	68.0	68.2	62.8	44.8	39.2	29.0	45.9	96	—14	.....	Sept. 15
Burlington	22.1	18.7	28.8	45.0	61.5	72.9	70.6	69.5	63.8	46.2	40.0	29.0	47.3	90	—14	May 14	Oct. 18
Chelsea	.....	.....	.....	.....	.....	66.5	63.3	63.0	57.1	38.9	33.8	23.0	.....	.....	.....	.....	Sept. 15
Cornwall	20.3	15.5	26.4	43.8	[d]57.9	69.0	67.2	66.5	61.6	44.2	37.8	27.8	44.8	92	—24	May 14	Oct. 10
Enosburg Falls	18.8	14.1	23.6	42.6	58.0	68.3	65.3	63.4	61.0	40.2	.....	25.4	.....	90	—21	May 14	.....
Hartland	15.4	13.3	25.7	41.3	57.0	65.5	63.2	63.4	57.8	40.7	35.8	24.9	42.0	92	—24	May 17	Sept. 15
Irasburg	14.6	16.8	20.5	38.8	55.0	66.2	63.8	62.7	[c]58.4	38.0	34.1	22.1	40.9	90	—20	May 22	.....
Jacksonville	17.2	18.4	24.8	39.2	54.4	62.6	59.4	61.1	56.8	39.4	34.3	26.2	40.7	87	—24	May 22	Sept. 2
*Northfield	15.8	13.8	22.2	40.2	56.8	66.2	63.7	62.9	57.8	41.2	34.8	24.4	41.6	90	—17	May 14	Sept. 14
Norwich	17.2	14.0	25.8	41.5	57.9	65.8	64.3	.....	.....	.....	37.3	27.3	.....	.....	—20	May 17	Sept. 14
St. Johnsbury	15.7	14.1	23.9	41.4	58.2	67.4	65.6	63.6	58.5	41.5	34.7	23.4	42.3	89	—18	May 17	Sept. 15
Simonsville	16.4	13.0	21.5	34.0	56.0	65.1	62.2	64.2	53.0	37.9	33.8	24.5	40.1	88	—19	May 21	Sept. 15
Strafford (*a*)	18.3	14.8	24.3	41.2	57.9	66.2	64.0	64.3	58.4	41.6	35.7	25.1	42.6	87	—16	May 17	Aug. 22
Vernon (*f*)	17.5	15.7	28.6	44.3	59.2	71.9	70.0	70.5	63.1	45.0	38.2	27.3	45.9	98	—20	.....	.....
Wells	20.6	15.4	26.1	42.6	59.0	69.4	65.7	66.0	61.3	42.8	37.4	26.9	44.4	90	—21	May 17	Sept 15
Woodstock	14.9	11.5	25.2	42.0	59.3	69.0	65.9	64.9	58.8	40.3	35.2	24.2	42.6	94	—27	May 17	Sept. 15

[1] G. A. Dueler. [2] Pacific Railway system. [3] W. W. Crossman.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations	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.																	
Alexandria	33.2	26.9	43.5	52.4	65.0	79.3	76.8	80.6	74.4	53.8	45.0	37.0	55.7	102	0	.....	.....
Ashland	33.7	27.8	45.0	56.4	62.9	75.0	74.0	76.9	72.4	52.0	48.6	39.4	55.3	100	0	Mar. 23	Oct. 1
Avon	32.0	29.2	45.0	55.4	62.6	74.1	74.1	.....	.....	[f]53.2	48.4	39.2	.....	.....	— 4	.....	.....
Bedford City	33.2	28.1	45.1	55.2	65.5	.....	.....	75.6	73.0	52.6	47.1	38.0	.....	.....	— 6	Apr. 5	.....
Bigstone Gap	29.0	22.8	41.2	52.2	58.7	68.5	68.8	70.2	66.6	46.6	43.6	32.6	50.1	96	—18	May 23	Sept. 30
Birdsneat (a)	37.6	30.3	44.4	55.0	63.0	75.1	75.5	79.4	75.2	57.4	51.8	43.0	57.3	100	3	Apr. 12	Oct. 18
Blacksburg	28.5	20.9	41.2	50.1	58.1	67.7	68.5	71.3	68.1	46.9	43.0	35.4	50.0	92	—13	May 13	Sept. 28
Buckingham	32.3	25.2	.....	.....	.....	74.6	.....	.....	.....	.....	46.8	36.6	.....	.....	.....	Apr. 11	Oct. 21
Callaville	37.9	29.8	46.8	55.9	63.3	75.1	74.3	75.4	73.0	53.0	49.4	41.2	56.3	96	1	Mar. 29	Oct. 10
Cape Charles	39.0	27.7	42.5	54.7	62.3	75.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Cape Henry	39.2	31.0	45.8	54.7	61.6	73.9	75.7	78.1	75.6	58.5	52.6	45.3	57.7	99	8	Mar. 20	Nov. 21
Charlottesville	.....	27.5	45.5	56.1	63.6	75.4	73.1	76.8	.....	53.7	49.0	39.7	.....	.....	.....	Apr. 4	Oct. 29
Dale Enterprise	26.3	21.4	39.7	51.0	58.9	70.7	68.2	73.0	69.7	48.8	43.2	34.0	50.4	97	—12	May 17	Oct. 1
Fredericksburg	.....	.....	42.9	55.2	62.9	74.9	73.1	76.8	73.3	53.5	48.8	39.2	.....	95	.....	Apr. 19	Oct. 9
Grahams Forge	.....	[d]21.2	[f]40.5	[f]51.4	[d]62.2	[e]71.1	.....	[f]71.3	.....	.....	.....	.....	.....	.....	.....	May 13	Sept. 30
Hampton	39.5	31.8	45.4	56.4	63.3	75.8	76.8	79.2	76.5	58.2	54.8	43.8	58.5	96	4	Mar. 23	Nov. 21
Hot Springs	26.6	21.0	40.6	50.0	59.9	71.0	71.9	71.0	68.6	47.0	46.4	.....	.....	90	.....	Apr. 14	Oct. 10
Irwin	33.2	23.8	44.1	55.0	62.4	75.0	73.3	77.4	72.0	50.4	47.3	37.2	54.3	99	—11	Apr. 12	Oct. 1
Lexington	30.4	24.8	43.8	53.0	61.6	72.3	71.6	72.7	72.2	51.2	46.2	37.5	53.1	98	—12	Apr. 19	Oct. 1
*Lynchburg	34.6	29.4	45.5	56.0	63.3	75.2	74.8	77.3	74.6	53.5	48.8	40.1	56.1	99	— 3	Apr. 4	Oct. 10
Manassas	.....	.....	.....	.....	.....	.....	[f]71.8	76.6	71.2	51.3	45.8	37.4	.....	.....	.....	.....	Oct. 10
Marion	*31.1	24.0	*41.7	52.5	*60.2	70.7	[f]70.4	[f]70.3	67.2	47.8	[f]47.6	*36.9	51.7	94	—12	Apr. 18	Oct. 1
Monterey	.....	19.8	36.6	48.1	60.0	66.4	64.6	66.9	63.6	47.8	[f]39.8	32.4	.....	91	.....	May 16	Oct. 10
*Norfolk	40.3	31.9	46.8	57.8	64.0	76.2	76.4	78.7	76.6	58.6	53.1	45.2	58.8	100	2	Mar. 21†	Oct. 10
Nottoway	35.8	28.2	46.2	56.1	63.4	76.2	76.0	79.0	76.6	54.6	49.6	41.9	57.0	104	—12	Apr. 12	Oct. 1
Petersburg	37.2	28.4	46.3	56.6	64.3	74.6	75.6	78.4	75.9	54.6	49.2	40.4	56.8	103	0	Apr. 12	Oct. 1
Richmond (near)	36.6	31.4	46.6	57.8	65.1	77.0	75.3	79.2	76.7	56.4	49.8	41.2	57.8	.....	.....	.....	.....
Rockymount	35.8	29.8	48.0	57.7	63.6	74.9	74.5	75.8	74.5	55.4	50.4	41.6	56.8	99	— 5	Mar. 22	Oct. 10
Salem	34.7	31.1	47.3	55.5	63.0	73.6	73.7	.....	.....	56.2	51.0	41.5	.....	.....	— 6	Mar. 23	Oct. 1
Saltville	30.2	24.7	43.5	53.1	60.4	70.0	70.4	71.6	69.9	48.4	46.6	37.2	52.2	94	—12	May 23	Oct. 1
Smithville	34.4	27.7	43.1	55.6	63.7	69.8	74.8	76.6	73.6	54.4	47.9	39.1	55.1	98	0	Apr. 4	Nov. 3
Spottsville	36.7	27.9	44.5	56.2	62.9	75.9	75.4	77.5	73.8	52.5	48.5	40.4	56.0	100	— 3	Apr. 19	Oct. 1
Stanardsville	30.3	26.5	42.4	55.1	61.7	74.2	71.3	74.7	72.4	52.2	46.2	37.0	53.7	98	— 9	Apr. 4	Oct. 10
Staunton	29.3	24.0	42.4	52.7	60.9	71.7	70.7	74.4	72.2	51.6	46.2	37.2	52.8	100	—13	May 22	Oct. 1
Stephens City	27.2	24.1	40.8	54.2	62.8	74.4	[c]72.2	[c]77.4	72.2	51.4	45.4	35.3	53.1	101	— 4	May 23	Oct. 1
Sunbeam	39.4	29.9	46.3	56.9	63.9	75.6	75.6	77.0	74.7	54.5	51.3	43.0	57.3	99	1	Mar. 24	Oct. 1
Warsaw	34.4	26.5	43.6	54.9	62.7	76.1	74.5	78.2	73.8	[e]51.8	47.4	40.0	55.3	98	0	Apr. 12	Oct. 29
Whittles Depot	35.0	28.8	45.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Westbrook Farm	.....	.....	.....	55.3	63.2	75.8	74.7	77.8	73.8	53.6	48.4	40.0	.....	.....	.....	.....	.....
Wytheville	29.5	24.2	40.8	50.9	.....	.....	.....	.....	.....	47.5	44.2	.....	.....	.....	.....	.....	.....
Washington.																	
Aberdeen	38.6	45.5	45.7	49.0	51.6	58.0	61.0	.....	.....	55.2	42.4	41.2	.....	.....	24	.....	.....
Blaine	33.1	41.3	42.3	42.2	53.2	59.3	60.6	58.6	51.2	46.1	39.8	36.4	47.0	89	9	.....	.....
Bridgeport	22.5	28.6	43.4	53.5	56.8	63.2	64.8	68.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cascade Tunnel	25.6	32.2	31.7	40.3	45.2	54.2	55.8	57.6	47.3	47.0	37.6	[f]29.6	42.0	90	.....	.....	.....
Centerville	26.0	37.4	41.6	50.7	55.0	.....	65.3	65.9	.....	51.1	38.3	36.0	.....	.....	— 5	.....	.....
Chehalis	36.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Colfax	29.6	37.5	39.4	49.8	53.8	58.8	63.8	63.6	52.4	49.1	38.4	32.0	47.3	94	3	May 30	.....
Conconully	24.0	32.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Connell	.....	42.0	46.2	54.7	.....	.....	73.2	71.0	57.6	.....	46.2	44.6	.....	.....	.....	.....	.....
Coupeville	.....	.....	.....	.....	.....	.....	.....	.....	.....	[g]49.8	43.7	41.6	.....	.....	.....	.....	.....
Dayton	.....	.....	.....	53.2	.....	.....	.....	69.3	54.8	51.3	38.7	.....	.....	.....	.....	.....	Sept. 27
*East Clallam	37.0	43.4	42.2	45.2	51.0	53.6	55.6	53.6	51.4	49.2	44.0	40.5	47.2	93	24	Apr. 20†	Sept. 20
East Sound	37.8	43.4	43.8	48.6	53.2	.....	*61.2	60.4	54.0	50.6	45.2	41.7	.....	.....	19	Mar. 14	Nov. 4
Ellensburg	22.0	36.4	41.0	48.6	53.2	60.3	64.1	.....	52.0	48.6	35.0	26.6	.....	.....	— 8	.....	Sept. 9
Ellensburg (near)	24.6	36.2	40.8	49.7	55.4	64.8	68.2	70.0	54.3	48.6	35.9	28.4	48.1	104	— 2	May 15	Sept. 6
Ferry	26.2	41.2	42.6	51.2	54.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Fort Canby	40.2	44.4	45.7	48.3	53.0	56.2	59.9	58.0	56.2	54.4	46.0	43.5	50.5	90	31	Mar. 14	Dec. 16
Fort Simcoe	30.0	41.2	46.2	54.8	56.7	65.6	70.4	71.2	57.6	56.7	40.7	33.6	52.1	.....	10	.....	.....
Fort Spokane	23.9	31.2	40.3	49.5	56.0	62.4	67.3	67.0	53.6	49.5	34.4	28.8	47.0	100	— 1	.....	.....
Fort Townsend	36.6	43.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grand Mound	38.4	44.6	44.4	49.6	53.8	60.5	63.6	*62.4	54.4	50.4	41.4	39.2	50.2	94	18	Mar. 14	Nov. 11
Hunters	22.5	29.2	33.1	*43.4	48.6	54.6	59.6	58.0	45.2	44.0	29.7	22.3	40.8	88	— 5	June 14	Aug. 14
Index	36.6	43.6	46.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kennewick	31.2	41.6	45.8	54.5	63.5	68.0	72.8	71.6	58.9	52.8	.....	.....	.....	103	.....	.....	Oct. 28
Lakeside	24.6	33.5	41.6	51.2	56.3	66.0	70.7	71.4	55.8	51.0	36.7	31.8	49.2	96	7	.....	Oct. 27
Lapush	39.4	43.8	42.8	45.4	52.2	55.4	.....	.....	54.8	53.4	47.2	43.6	.....	.....	26	Mar. 9	Nov. 4
Madrone (a)	38.4	44.7	44.5	48.4	52.9	58.9	60.8	59.8	54.1	50.2	44.6	40.6	49.8	89	23	Mar. 14	Sept. 21
Mayfield	.....	.....	.....	.....	.....	60.7	64.3	61.4	.....	.....	.....	38.2	.....	.....	.....	.....	.....
Monte Cristo	.....	.....	38.6	44.2	47.4	57.2	60.3	61.4	50.0	55.4	39.4	35.2	.....	92	.....	.....	.....
Moxee Valley	26.5	34.4	42.0	51.3	57.0	66.9	69.7	69.2	56.4	50.6	40.8	31.8	49.7	102	— 8	June 14	Sept. 6
*Neah Bay	40.2	45.3	44.2	46.6	51.9	56.0	58.4	57.4	.....	51.0	46.0	43.9	.....	.....	.....	Apr. 20†	Oct. 16
New Whatcom	.....	.....	.....	.....	.....	58.2	60.9	59.9	52.3	48.6	44.6	41.7	.....	.....	.....	.....	Sept. 20
Olga	39.1	44.6	46.0	49.2	53.8	58.7	61.6	59.6	56.8	50.4	44.5	41.2	50.5	85	22	.....	Sept. 21
*Olympia	37.4	44.4	44.0	49.1	53.6	60.8	63.0	62.4	56.2	.....	.....	*40.8	.....	94	23	Mar. 14	Sept. 21
Pine Hill	30.8	39.7	42.3	50.6	55.1	63.1	67.2	67.6	56.3	52.1	39.7	36.1	50.0	99	5	.....	.....
Pomeroy	.....	.....	.....	54.4	55.9	63.0	70.0	72.0	58.1	59.0	43.3	36.2	.....	96	.....	.....	Sept. 6
*Port Angeles	37.1	42.2	42.0	45.5	50.4	54.3	56.8	56.2	50.2	48.4	43.6	40.3	47.3	88	22	Apr. 17	Nov. 4
*Port Crescent	34.4	41.2	40.6	44.9	50.8	55.0	57.4	56.4	49.1	48.6	41.6	38.2	46.5	90	18	Apr. 17†	Sept. 18
Pullman	27.4	34.6	38.2	48.2	51.4	58.2	.....	.....	.....	.....	36.2	30.3	.....	.....	.....	May 31	.....
*Pysht	36.2	42.6	41.4	45.2	51.5	56.6	59.2	59.0	50.7	48.2	42.0	39.4	47.7	86	22	Mar. 17	Sept. 20
Rosalia	26.2	33.7	37.8	47.2	51.8	58.0	63.2	63.2	51.0	49.4	36.5	28.8	45.6	95	4	June 14	Aug. 14
*Seattle	39.3	45.0	44.5	50.0	55.2	60.9	63.6	62.0	55.8	51.6	44.4	41.8	51.2	90	27	Mar. 14	Nov. 5
Silver Creek (a)	36.8	42.9	42.4	47.3	50.9	56.2	59.6	59.8	52.3	49.8	40.0	38.3	48.0	98	20	Apr. 26	Sept. 21
Snohomish	38.0	43.6	43.7	50.4	55.0	60.0	62.4	60.2	55.2	51.4	42.9	40.8	50.3	89	21	Apr. 5	Sept. 21
Southbend	.....	.....	46.8	50.2	54.4	60.1	63.0	62.1	54.6	57.0	45.1	.....	.....	102	.....	Mar. 14	Oct. 31

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.
Washington—Continued.																	
*Spokane	27.8	35.6	39.2	49.8	54.7	62.1	67.4	67.5	53.8	50.5	37.0	31.2	48.0	95	8	Apr. 20†	Sept. 10†
Stampede	30.0	35.2	37.2	45.0	47.7	56.4	60.8	62.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stillaguamish	36.0	41.0	41.8	47.8	58.2	58.1	60.1	58.0	52.0	47.4	39.4	37.0	47.6	90	17	.....	.....
Sunnyside	27.3	37.0	43.0	52.2	58.7	68.2	72.6	70.8	57.6	51.8	38.6	33.8	51.0	101	— 7	June 14	Sept. 9
Tacoma	38.2	44.2	43.8	49.2	[c]52.9	59.3	62.0	60.7	54.2	50.9	42.5	39.8	49.8	89	23	.....	Nov. 22
*Tatoosh Island	40.5	44.3	43.8	45.6	50.2	53.4	56.0	54.6	52.2	50.6	45.9	43.2	48.4	78	30	Mar. 23	Dec. 15
Union City	38.4	47.0	42.8	46.5	54.2	62.7	65.9	64.2	55.2	51.2	44.7	40.4	51.1	95	22	May 9	Sept. 11
Vashon	.....	.....	39.2	46.2	49.0	.....	55.0	55.6	49.8	45.8	39.0	37.5	.....	.....	.....	Mar. 14	Nov. 4
*Walla Walla	31.8	42.4	45.0	54.7	58.6	66.1	71.2	72.5	58.3	55.7	43.4	37.6	53.1	104	11	Apr. 5†	Sept 21
Waterville	21.0	29.6	36.9	.....	51.8	61.3	66.5	65.6	51.3	48.9	33.2	26.6	.....	98	.....	.....	Sept. 6
Wenatchee Lake	24.4	35.8	36.8	43.9	50.5	58.5	60.3	60.6	49.8	49.0	34.3	26.7	44.2	.....	.....	May 11	Sept. 5
West Ferndale	35.5	41.4	44.8	49.2	54.4	59.9	61.6	61.4	54.0	49.9	43.9	40.6	49.7	90	18	.....	Nov. 4
West Virginia.																	
Beverly	29.7	23.5	40.6	51.5	62.2	72.4	70.1	72.1	70.0	47.4	41.4	35.8	51.4	94	—20	May 13	Oct. 1
Bloomery	23.1	20.4	36.0	48.5	[d]56.8	67.3	66.6	69.2	67.0	45.3	41.8	33.0	47.9	94	—12	May 22	Oct. 2
Bluefield	28.6	23.3	40.8	51.1	60.9	70.1	69.5	73.5	71.3	49.6	47.1	37.0	51.9	98	—17	May 22	Oct. 1
Buckhannon	.....	[f]23.1	40.4	52.3	.....	.....	67.6	.....	66.9	46.7	.....	38.4	.....	.....	.....	.....	Oct. 1
Burlington	24.1	22.0	37.4	48.6	59.9	69.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	May 22	.....
Central Station (*a*)	.....	.....	[c]37.8	52.0	[c]59.9	73.0	[c]72.3	[c]70.7	.....	.....	.....	.....	.....	.....	.....	May 23	Oct. 1
Davis	.....	21.1	34.7	46.9	54.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dayton (*a*)	.....	.....	.....	.....	60.4	73.2	70.5	73.1	69.3	50.1	45.4	37.6	.....	97	.....	May 17	Oct. 10
Elkhorn	32.5	26.4	44.3	53.7	60.3	69.7	69.6	71.1	68.4	49.5	49.0	39.7	52.8	94	—10	May 15	Oct. 1
Ella	.....	21.1	36.2	52.6	64.0	75.3	69.2	74.8	71.4	50.5	44.4	35.6	.....	100	.....	May 17	Oct. 10
Gladesville	.....	13.4	32.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Glenville	28.4	21.9	40.1	52.5	61.3	71.4	70.1	72.4	68.9	47.8	44.7	36.8	51.4	94	—11	May 22	Oct. 3
Grafton	28.2	20.1	38.7	52.4	61.0	72.0	68.9	72.2	69.5	48.6	46.0	36.1	51.1	99	—13	May 22	Oct. 1
Green Sulphur	29.6	24.2	41.4	52.5	61.5	71.0	72.3	74.0	72.0	46.7	42.6	38.4	52.2	95	—20	May 13	Oct. 1
Hewett	32.5	27.4	45.3	55.5	63.8	74.8	72.6	75.1	73.3	50.8	46.0	39.5	54.7	99	—10	Apr. 17	Sept. 30
Hinton	30.3	26.1	44.2	54.8	63.1	69.4	72.3	74.2	70.6	50.0	46.8	39.4	53.4	97	11	Apr. 18	Oct. 21
Huntington	30.1	24.0	42.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Madison	30.9	23.4	43.1	53.1	60.3	70.6	71.1	.....	.....	.....	.....	.....	.....	.....	.....	May 15	.....
Marlinton	.....	28.5	37.5	.....	.....	.....	.....	.....	.....	43.4	42.5	32.4	.....	.....	.....	May 22	Oct. 1
Martinsburg	26.4	22.8	39.5	52.1	61.0	72.2	70.7	74.0	69.0	49.2	43.7	35.2	51.3	96	— 3	May 22	Oct. 10
Monarch	32.2	25.9	43.0	55.1	.....	.....	.....	.....	68.3	.....	.....	39.7	.....	.....	.....	.....	.....
Morgantown	29.5	22.1	38.2	52.4	.....	.....	70.0	73.0	69.7	46.2	43.8	35.8	.....	.....	—11	.....	Oct. 10
New Cumberland	26.5	22.0	37.3	55.2	61.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Martinsville	27.5	23.0	37.7	54.5	63.2	74.3	70.8	72.9	70.6	47.2	43.9	33.8	51.6	99	— 8	May 22	Oct. 1
Nuttallburg	28.5	[e]26.0	40.1	53.7	60.4	68.0	69.2	73.4	72.1	47.8	46.5	36.9	51.9	107	—21	May 12	Oct. 1
*Parkersburg	28.6	22.5	39.7	54.8	62.8	74.2	73.2	76.2	72.8	49.6	45.6	37.4	53.1	99	— 8	May 13	Oct. 1
Pennsboro	[d]27.7	[e]20.0	[e]38.2	[e]55.0	63.8	73.2	70.6	.....	71.4	49.5	.....	38.7	.....	.....	.....	May 23	Sept. 30
Pleasant Hill	22.4	19.2	.....	50.7	64.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Point Pleasant	29.2	25.4	42.5	56.7	64.6	75.7	72.0	77.0	72.6	50.8	45.2	38.0	54.1	102	— 6	May 23	Sept. 30
Powellton	28.5	23.8	42.6	54.3	59.9	69.8	68.4	70.7	66.6	44.3	42.3	34.6	50.5	95	— 5	May 13	Oct. 1
Raleigh	26.9	17.6	34.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sandyville	28.3	21.2	39.2	53.3	61.7	73.1	72.0	74.0	69.9	46.0	44.1	37.4	51.7	99	—17	May 22	Oct. 1
Spencer	.....	.....	.....	.....	58.1	72.1	.....	.....	74.8	51.1	.....	37.3	.....	.....	.....	May 23	Sept. 30
Tannery (*a*)	26.6	19.2	37.4	51.4	62.8	75.1	70.7	73.9	70.5	47.8	44.8	35.8	51.3	98	—12	May 22	Oct. 10
Weston (*a*)	32.4	23.2	41.2	55.4	62.5	75.2	72.5	75.2	70.3	48.2	44.2	38.1	53.2	97	— 8	May 23	Oct. 1
Wheeling	29.4	24.8	39.3	54.9	63.7	75.6	71.7	74.8	71.4	49.4	44.3	38.2	53.1	98	— 1	Apr. 11	Oct. 10
White Sulphur Springs	.....	.....	.....	.....	.....	68.7	69.0	72.6	68.7	46.0	.....	.....	.....	.....	.....	.....	Sept. 27
Wiggins	.....	25.4	42.6	51.8	66.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wisconsin.																	
Amherst	10.0	10.8	25.6	46.9	57.7	67.2	67.4	68.2	65.4	42.3	31.6	22.9	43.0	.....	—35	May 27	Sept. 30
Antigo	8.7	11.7	23.7	46.7	55.9	67.0	[a]64.4	.....	60.0	37.9	28.1	19.6	.....	.....	—37	May 16	Sept. 30
Apollonia (*a*)	8.8	12.2	28.0	52.2	58.2	68.0	69.0	70.3	63.7	45.1	32.2	21.8	44.1	92	—38	May 20	Aug. 21
Barron	[f]3.4	7.8	22.4	45.2	55.8	64.0	65.1	62.4	59.2	38.3	26.2	19.4	39.1	94	—45	May 14	Sept. 23
Bayfield	7.1	.....	20.7	43.8	56.4	60.1	66.8	.....	.....	.....	.....	21.0	.....	.....	.....	May 13	.....
Beaverdam	14.5	12.6	30.0	49.6	56.9	69.7	71.6	.....	.....	.....	.....	.....	.....	.....	.....	May 27	.....
Belleville	9.3	9.7	28.8	48.0	57.2	68.3	68.0	69.1	65.7	41.6	.....	.....	.....	97	.....	May 27	Sept. 30
Beloit	13.0	13.5	31.4	50.1	59.8	72.2	71.6	72.2	68.1	44.8	33.4	26.6	46.4	.....	—23	May 20	Sept. 30
Berlin	16.6	16.2	32.0	53.8	61.4	70.6	68.5	70.1	66.8	.....	.....	.....	.....	99	.....	May 25	Sept. 26
Black River Falls	9.0	11.2	28.4	48.4	57.7	67.2	68.2	67.7	65.8	41.5	30.2	22.4	43.1	100	—32	May 27	Oct. 1
Butternut	6.9	9.2	22.6	45.8	56.2	65.2	64.2	.....	61.1	32.2	28.5	18.0	.....	.....	—40	May 23	Sept. 28
Centralia	9.9	10.4	27.2	49.2	59.1	68.9	[a]68.9	69.1	65.1	[a]40.2	31.9	22.4	43.5	97	—29	May 19	Sept. 29
Chilton	12.2	13.0	29.0	47.0	59.2	68.8	69.6	69.6	64.4	[c]39.4	30.7	22.4	43.8	96	—24	May 26	Oct. 8
City Point	7.2	9.2	27.4	47.8	57.8	67.2	.....	65.2	65.6	.....	.....	.....	.....	.....	.....	May 21	Aug. 21
Columbus	10.1	15.4	27.8	48.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Crandon	.....	.....	20.1	42.6	56.7	64.5	64.6	65.0	64.8	.....	23.6	23.7	.....	100	.....	May 26	Sept. 30
Delavan	11.4	12.4	30.6	48.6	58.0	69.4	69.2	70.0	66.1	43.4	32.2	25.6	44.7	97	—25	May 26	Sept. 29
Depere	12.5	11.8	26.1	45.6	58.2	68.1	67.6	68.0	64.8	42.8	32.0	23.4	43.4	95	—24	May 20	Oct. 9
Eau Claire	8.5	8.2	29.4	49.4	59.4	67.9	68.8	68.8	63.8	40.8	31.9	21.1	43.2	99	—34	May 14	Oct. 1
Florence	.....	11.0	19.6	41.4	51.9	61.2	61.0	62.2	59.2	35.4	26.7	17.6	.....	96	.....	May 27	Sept. 27
Fond du Lac	10.8	11.2	27.7	46.1	58.2	69.4	68.4	69.6	66.3	41.6	31.0	22.8	43.6	96	—29	May 27	Sept. 30
Grantsburg	.....	8.6	28.8	48.8	58.2	65.4	67.5	64.5	62.6	44.3	.....	.....	.....	94	.....	May 19	Sept. 30
*Green Bay	13.4	12.6	26.7	45.5	57.8	68.7	67.9	68.4	65.4	42.4	32.8	24.6	43.8	95	—24	May 21	Sept. 30
Harvey	13.2	13.2	30.2	48.6	58.0	69.3	69.6	70.8	65.3	42.9	31.1	25.0	44.8	98	—23	May 27	Sept. 30
Hayward	5.2	6.2	22.6	45.0	55.0	63.4	.....	65.8	59.8	39.0	28.9	17.6	.....	.....	—49	May 21	Sept. 27
Hillsboro	10.6	10.0	27.9	47.7	57.8	66.0	66.8	68.7	65.4	42.2	[i]31.7	24.4	43.3	96	—35	Apr. 23	Oct. 1
Janesville	12.6	14.0	30.6	48.8	59.1	70.2	69.4	71.6	67.8	44.0	34.1	.....	.....	97	.....	May 20	Oct. 1
Kenosha (*h*)	.....	.....	.....	43.1	52.8	71.4	70.9	71.6	67.1	49.3	33.4	.....	.....	.....	.....	.....	.....
Koepenick	8.4	10.0	20.2	44.8	56.2	64.4	65.0	63.8	62.4	37.5	25.6	19.7	39.8	.....	.....	May 15	Sept. 30
*La Crosse	10.7	12.5	30.3	52.6	60.4	69.4	70.8	71.6	67.6	44.9	33.6	24.2	45.7	97	—24	May 14	Oct. 1
Lancaster	9.3	10.0	[d]31.0	51.3	60.0	71.2	72.0	71.9	65.8	41.4	31.6	24.0	45.0	95	—25	May 14	Sept. 30
Lincoln (*b*)	15.8	12.6	29.2	46.2	59.2	71.8	70.0	68.8	64.1	45.3	38.0	26.8	45.6	.....	.....	May 13	Oct. 8

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1895—Continued.

Stations.	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.																	
Madison	11.0	11.0	30.0	49.0	59.2	71.2	71.7	72.7	67.2	44.5	33.2	24.9	45.5	93	—21	May 14	Oct. 9
Manitowoc	14.2	11.0	27.9	42.8	51.0	62.2	64.3	66.0	60.4	42.0	32.7	25.3	41.6	95	—22	May 21	Oct. 9
Meadow Valley	7.7	11.4	29.1	50.1	58.4	67.5	66.4	67.4	64.2	41.4	32.2	22.3	43.2	97	—34	May 21	Sept. 30
Medford	7.8	9.0	23.4	46.2	56.5	67.3	66.4	67.2	62.2	38.8	28.6	19.3	41.1	98	—39	May 27	Sept. 30
Menominee	2.5	7.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Milwaukee	15.1	15.1	29.8	46.0	55.7	67.0	68.2	71.6	65.6	44.9	34.5	27.7	45.1	96	—17	May 20	Sept. 30
Neillsville	9.2	8.2	25.5	48.0	56.6	66.4	66.0	66.5	63.4	40.0	30.3	21.5	41.8	95	—41	May 12	Sept. 30
New Holstein	11.9	10.0	28.8	48.7	58.7	.....	68.5	68.7	63.7	.....	32.2	29.0	.....	.....	—24	May 14	Sept. 29
Oconomowoc	10.2	12.5	31.1	48.8	59.6	69.6	69.2	71.8	67.1	45.0	33.0	26.1	45.3	95	—27	May 27	Sept. 30
Oconto	14.4	14.3	26.4	44.2	55.5	65.6	65.1	66.1	62.6	41.8	31.4	24.6	42.7	97	—23	May 27	Sept. 30
Osceola	2.6	6.4	26.2	49.0	57.6	65.9	67.0	66.5	62.9	39.9	28.5	18.2	40.9	99	—46	May 22	Oct. 7
Oshkosh	[c]13.8	17.1	.....	45.8	62.8	.....	.....	.....	69.4	46.8	34.3	26.7	.....	.....	.....	May 16	Sept. 30
Pepin	4.2	9.2	27.9	50.9	59.1	66.3	68.9	.....	64.6	42.2	32.0	18.3	.....	.....	—34	May 19	Sept. 29
Pine River	10.4	13.0	28.8	47.6	58.4	68.7	[b]66.8	68.4	65.8	42.4	30.8	23.4	43.7	98	—31	May 27	Sept. 30
Port Washington	16.4	16.4	30.2	48.8	53.6	65.8	67.3	69.4	64.6	44.6	33.8	28.0	44.9	97	—22	May 26	Sept. 29
Prairie du Chien	[c]12.3	11.9	31.2	53.1	[c]60.4	69.3	71.2	.....	67.2	[b]43.0	32.3	25.0	.....	.....	—30	May 27	Sept. 29
Racine (*h*)	13.8	13.3	29.4	44.3	52.4	64.7	66.8	69.3	63.4	44.7	35.2	27.6	43.7	.....	.....	.....	.....
Rhinelander	8.6	10.7	23.4	45.2	.....	.....	.....	64.2	58.2	40.2	.....	.....	.....	.....	.....	.....	.....
Royalton	5.6	10.6	26.6	47.8	58.3	68.3	67.3	67.7	65.4	41.7	31.2	22.8	42.8	98	—29	May 27	Sept. 29
Sharon	12.1	12.4	29.6	48.6	59.4	70.2	63.8	71.2	66.2	41.9	31.7	24.6	44.7	97	—24	May 27	Sept. 29
Shawano	15.3	15.2	27.2	45.4	56.4	66.7	65.4	65.0	61.8	40.7	31.2	23.4	42.8	98	—23	May 27	Sept. 30
Sheboygan	14.6	10.2	31.7	44.1	53.7	65.6	68.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Spooner	6.2	10.7	24.3	48.0	57.6	65.0	65.9	65.5	59.6	40.5	28.7	18.3	40.9	97	—46	May 12	Sept. 30
Stevens Point	10.0	10.4	23.1	48.8	58.8	70.2	67.8	68.0	65.2	41.6	31.6	21.6	43.1	97	—33	May 16	Sept. 30
Sturgeon Bay Canal (*h*)	16.1	12.8	24.6	39.9	47.9	60.3	64.8	65.1	58.2	42.6	33.2	26.2	41.0	.....	.....	.....	.....
Two Rivers (*h*)	.....	.....	.....	43.7	50.6	62.6	66.1	68.8	59.3	44.2	35.0	.....	.....	.....	.....	.....	.....
Valley Junction	9.0	10.6	28.2	48.2	58.4	66.8	66.6	66.8	63.9	41.4	32.1	22.8	42.9	96	—32	May 27	Aug. 21
Viroqua	9.0	13.4	29.4	50.2	58.9	68.4	70.4	70.6	65.6	43.2	31.9	23.6	44.6	97	—26	May 21	Sept. 30
Watertown	13.8	13.6	29.6	49.2	59.2	71.9	70.4	72.3	67.1	43.0	32.8	25.5	45.7	94	—24	May 27	Sept. 30
Waukesha	11.4	13.2	50.0	47.4	58.6	69.2	69.2	72.0	67.0	44.6	33.5	26.6	45.2	95	—24	May 21	Oct. 1
Wausau	.....	.....	.....	47.4	57.4	68.1	66.6	66.3	62.8	39.4	29.7	21.2	.....	94	.....	May 27	Sept. 30
Westbend	17.6	14.3	26.7	45.8	57.2	68.4	68.4	70.4	65.4	43.3	33.5	24.4	44.6	95	—14	May 27	Oct. 9
Westfield	10.6	11.6	28.0	48.0	59.1	70.0	69.6	69.8	66.3	42.7	31.6	23.4	44.2	96	—30	May 27	Sept. 30
Whitehall	6.4	8.0	27.8	48.0	58.4	65.8	65.6	66.8	64.6	41.2	30.6	20.2	42.0	97	—39	May 14	Sept. 30
Wyoming.																	
Bighorn Ranch	19.3	20.4	25.8	42.2	44.7	.....	57.1	56.6	51.5	43.1	28.8	22.0	.....	.....	.....	.....	.....
*Cheyenne	24.8	21.8	31.0	46.1	50.6	56.8	63.0	65.2	59.6	44.6	33.4	27.2	43.7	92	—20	May 31	Sept. 21
Fort Laramie	24.8	21.8	31.1	50.3	55.0	60.7	68.6	69.5	63.2	46.2	34.5	27.0	46.1	101	—26	May 17	Sept. 21
Fort Washakie	19.2	20.0	29.6	45.5	50.2	55.6	63.6	65.0	55.2	42.4	27.6	20.2	41.2	92	—26	June 18	Sept. 7
Fort Yellowstone	18.6	19.2	.....	.....	.....	51.1	60.0	61.6	50.4	43.4	26.0	19.0	.....	.....	—26	June 18	Sept. 7
Labarge	17.4	13.9	22.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Lander	18.4	19.5	31.0	46.2	51.1	58.3	63.6	64.8	54.6	43.2	25.1	18.7	41.0	91	—28	June 18	Sept. 7
Lander[1]	19.8	20.8	31.4	46.2	50.0	.....	.....	65.3	55.5	45.4	28.1	20.4	.....	.....	—26	.....	Sept. 7
Laramie	20.5	18.0	27.5	40.0	45.4	52.2	58.9	61.0	54.5	40.9	26.0	15.4	38.4	87	—30	June 18	Sept. 21
Lusk	.....	.....	28.9	46.4	51.8	58.5	66.6	66.7	58.0	42.8	28.6	22.2	.....	97	.....	June 17	Sept. 6
Saratoga	17.2	17.5	27.4	41.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sheridan	14.4	13.8	29.4	47.6	51.2	56.6	63.6	63.5	54.4	45.0	29.0	23.6	41.0	95	—38	May 29	Sept. 7
Sundance	17.7	14.8	27.0	45.7	48.6	55.6	64.4	64.6	55.4	43.9	28.0	21.8	40.6	94	—31	May 20	Sept. 7
Wheatland	.....	.....	.....	.....	54.6	61.8	70.4	71.6	67.4	55.5	38.8	29.6	.....	101	.....	May 19	Sept. 22

[1] J. S. Meyer.

Blank page retained for pagination

PART V.

MONTHLY AND ANNUAL PRECIPITATION—ALL STATIONS.

The precipitation values given in the following tables have been taken largely from the records of voluntary (unpaid) observers. The paid stations of the Weather Bureau are indicated by an asterisk (*). Probably two-thirds of the voluntary observers have standard rain gauges, the remainder having gauges similar in pattern to the standard, or, in a few cases, improvised gauges of their own construction.

The bracketed values have been obtained by a comparison of the date 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 last day 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.

Blank page retained for pagination

Monthly and Annual Precipitation (in Inches and Hundredths) for 1895.

[Compiled from the reports of observers of all classes.]

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Alabama.													
Alco	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.23	4.29	.....
Ashville	.....	.....	.....	.....	3.23	3.92	4.40	7.69	2.38	2.38	2.18	4.02	.....
Bermuda	6.75	3.65	9.40	2.85	2.80	9.96	4.63	4.24	1.17	2.26	0.86	3.89	52.46
*Birmingham	.....	.....	.....	3.27	3.93	2.99	6.10	3.19	1.27	2.75	.....	.....	.....
Brewton	.....	1.50	4.00	4.00	4.00	4.00	3.00	.....	.....	2.00	.....	3.00	.....
Carrollton	9.27	2.63	8.83	3.71	2.00	4.69	2.96	2.44	0.77	3.27	2.74	4.50	47.61
Citronelle	6.85	4.28	6.87	4.65	2.99	12.73	9.23	6.61	2.37	2.89	0.92	4.44	64.83
*Claiborne Landing	8.60	3.35	8.00	2.00	2.10	.....	3.57	0.16	0.08	2.00	0.36	1.00	.....
Clanton	.....	.....	.....	.....	3.25	2.26	5.09	2.63	1.00	2.09	1.85	3.87	.....
Collirene	7.09	4.37	8.88	2.95	1.45	4.55	2.03	2.40	1.52	0.90	1.05	2.70	39.89
*Cordova	8.61	2.01	9.15	4.68	3.48	4.01	5.95	5.05	3.41	3.19	3.60	4.21	57.35
Daphne	4.73	5.55	8.42	4.36	3.91	9.33	7.03	13.85	2.38	4.44	1.00	4.10	69.10
*Decatur	7.61	1.51	7.66	2.21	7.58	1.78	6.99	3.60	3.94	1.61	1.31	6.27	52.07
*Demopolis	7.34	[b]2.19	6.17	3.52	3.53	5.87	4.17	4.30	[c]0.39	1.78	0.68	3.32	43.26
Elba	7.11	2.90	6.49	2.47	4.44	5.41	5.79	5.20	1.85	1.43	2.14	4.63	49.86
*Eufaula[1]	7.18	3.03	10.39	2.09	3.41	4.18	3.77	6.17	1.41	1.33	1.46	2.77	47.19
*Eufaula[2]	7.08	2.59	11.20	2.29	2.76	3.01	3.94	8.08	0.25	0.99	.....	.....	.....
*Evergreen	6.42	3.85	.....	5.04	3.18	7.44	6.32	9.42	2.52	1.68	0.90	4.16	.....
*Florence[2]	9.33	1.31	6.78	3.16	2.19	3.17	6.95	4.15	3.23	1.86	1.63	5.46	49.22
Florence[3]	8.34	1.43	7.10	3.13	2.50	3.26	5.88	3.35	2.99	1.92	1.67	5.27	46.48
*Fort Deposit	7.34	2.60	10.98	3.19	6.43	9.90	4.46	7.22	0.29	2.14	[c]0.14	1.58	56.27
*Gadsden	7.97	2.38	6.86	4.23	5.24	4.52	3.66	6.16	0.45	0.50	3.31	3.93	49.21
*Goodwater	.....	.....	.....	.....	.....	.....	[c]4.27	6.13	0.02	2.00	1.35	4.04	.....
Greensboro	8.70	3.37	6.40	2.76	3.94	4.32	2.76	5.64	1.67	1.25	1.64	3.91	46.36
Healing Springs	7.06	2.48	6.51	2.06	4.35	7.82	6.15	5.46	0.20	2.36	1.57	3.38	49.40
Highland Home	7.19	2.40	9.74	2.06	4.19	9.09	2.73	10.81	0.28	2.17	0.54	3.37	54.57
Jasper	8.54	1.65	6.55	4.87	2.15	7.47	6.03	3.48	4.20	4.35	[d]2.63	.....	.....
*Livingston	7.37	2.03	5.25	3.94	3.98	5.84	3.45	3.00	0.76	1.42	0.46	4.84	42.34
*Lock No. 4	6.95	2.26	6.81	5.13	2.19	3.10	7.24	5.12	1.17	2.26	1.51	3.41	47.15
Madison Station	6.95	0.91	7.31	2.18	4.95	5.16	4.93	3.56	4.73	1.80	1.90	5.20	49.58
Maplegrove	10.90	3.65	7.57	5.79	4.59	4.86	4.17	6.20	0.64	2.54	2.15	2.98	56.04
*Marion	6.79	2.70	6.92	2.95	2.07	3.47	4.50	1.92	1.68	3.26	1.20	2.30	39.45
*Mobile	5.24	4.35	10.47	3.04	5.50	6.99	4.53	8.68	1.37	3.50	0.60	3.83	58.41
*Montgomery	6.69	3.56	9.14	3.99	1.80	3.99	3.47	4.50	0.74	1.26	0.87	3.44	43.45
Mount Willing	7.88	2.65	9.80	4.37	2.75	10.90	2.98	5.40	1.20	1.02	1.11	3.84	53.35
Newbern	6.85	2.68	7.85	3.04	3.77	4.74	1.65	6.11	0.81	1.70	1.93	3.53	44.66
Newburg	7.05	2.18	7.94	2.46	2.39	4.20	[f]3.64	4.66	[d]3.82	2.75	1.75	6.81	49.65
Newton	.....	.....	.....	2.99	1.10	7.97	4.05	7.39	0.37	2.68	0.71	2.68	.....
Oneonto	.....	2.79	7.35	2.35	.....	.....	5.74	3.70	.....	2.52	1.08	2.31	.....
*Opelika	6.31	2.76	4.45	3.18	4.16	6.72	3.86	3.66	0.84	0.90	1.24	3.58	41.66
Oxanna	7.13	2.06	6.93	3.77	10.63	7.65	4.11	5.10	2.28	2.70	1.47	2.34	56.17
*Pineapple	7.59	3.22	9.23	1.59	5.26	5.85	3.51	5.31	0.92	1.82	1.50	1.05	46.85
Pushmataha	7.08	2.72	6.81	3.90	5.24	4.50	5.72	4.46	1.13	2.11	2.54	5.00	51.21
Rockmills	7.23	2.66	7.55	6.39	3.11	5.59	6.24	8.29	1.29	.....	.....	.....	.....
Scottsboro	10.76	3.92	7.21	5.03	6.87	8.48	8.71	7.37	2.51	1.84	2.86	3.08	68.64
*Selma	6.30	2.66	8.02	3.22	3.62	9.66	4.45	1.59	0.30	1.84	1.30	3.67	46.63
Starlington	.....	4.08	12.12	5.22	6.37	6.28	.....	.....	.....	.....	.....	.....	.....
*Sturdevant	2.78	1.91	7.24	3.39	5.49	1.65	7.57	2.62	0.39	0.40	.....	.....	.....
*Tallassee	6.89	3.76	8.02	4.85	2.99	7.25	.....	.....	.....	.....	.....	.....	.....
*Thomasville	.....	.....	.....	.....	6.40	10.99	4.31	7.06	[b]1.32	0.06	.....	.....	.....
*Tuscaloosa	7.42	2.24	7.30	2.77	4.81	6.52	6.58	1.95	2.40	2.30	1.91	5.74	51.94
*Tuscumbia	.....	.....	.....	.....	1.86	3.19	6.33	1.21	2.02	2.50	.....	3.08	.....
Union	8.79	2.62	6.06	2.06	1.96	2.50	6.58	3.29	1.09	1.90	1.65	6.81	45.31
*Union Springs	6.12	3.24	10.90	2.92	5.24	3.70	2.31	7.40	1.81	1.00	3.17	5.04	52.85
Uniontown	6.89	2.55	5.94	3.50	4.38	7.33	2.82	2.68	1.27	2.24	1.44	3.69	44.73
Valleyhead	7.32	3.25	7.78	5.40	4.26	3.65	7.28	7.15	1.07	2.02	2.52	3.25	54.95
*Warrior	8.16	1.75	8.20	4.58	5.02	.....	.....	.....	.....	.....	.....	2.67	.....
*Wetumpka	6.02	3.01	7.30	5.39	4.34	3.53	3.10	4.87	0.36	1.71	1.42	[b]3.52	44.57
*Wilsonville	7.51	2.94	5.69	3.32	2.42	1.68	5.68	4.77	1.40	2.72	.....	.....	.....
Alaska.													
Coal Harbor	.....	3.45	5.65	8.00	2.09	1.69	2.46	3.17	2.03	.....	.....	.....	.....
Holy Cross Mission	0.79	1.03	.....	0.11	0.37	.....	.....	2.65	.....	.....	.....	.....	.....
Juneau	5.80	.....	.....	.....	.....	.....	3.23	.....	.....	.....	.....	.....	.....
Killisnoo	3.25	7.30	2.80	4.20	1.70	3.35	3.35	6.95	6.45	8.45	4.40	8.55	60.75
Point Hope	0.05	0.03	0.42	0.04	0.29	0.19	0.27	0.45	.....	.....	.....	.....	.....
St. Lawrence Island	.....	.....	.....	.....	.....	0.59	0.42	1.08	.....	.....	.....	.....	.....
St. Peters Mission	0.68	1.09	0.89	0.16	0.36	.....	.....	.....	.....	.....	.....	.....	.....
Arizona.													
Antelope Valley	8.00	.....	.....	.....	T.	0.00	1.63	.....	.....	.....	.....	.....	.....
Arizona Canal Company's Dam	.....	T.	T.	0.00	.....	0.00	.....	0.06	.....	1.14	.....	.....	.....

[1] Cotton region observer. [2] River observer. [3] Richard Smith.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Arizona—Continued.													
Benson	0.00	0.00	.....	0.00	1.00	0.00	0.13	1.20	1.40	0.00	0.00	0.00	.....
Bisbee	1.20	0.08	0.00	0.20	0.23	0.10	2.02	4.70	2.44	1.12	2.23	0.48	14.80
Buckeye	1.90	0.10	0.00	0.00	0.00	0.00	1.20	1.00	0.00	0.40	0.50	0.00	5.10
Calabasas	0.88	0.00	0.00	0.00	0.06	0.00	2.66	6.77	1.88	0.12	2.67	0.10	15.14
Casagrande	0.45	0.00	0.00	0.00	0.00	0.00	0.35	1.20	2.00	1.60	0.60	.....	.....
Dragoon	1.23	.....	.....	0.17	0.57	0.00	1.25	3.63	1.55	0.55	2.18	1.26	.....
Dragoon Summit	1.75	0.00	0.00	0.15	0.18	0.10	0.42	4.00	1.27	0.09	2.77	0.00	10.73
Dudleyville	1.56	0.01	0.14	0.05	0.12	0.07	0.98	3.80	3.04	1.56	3.90	0.69	15.92
Eagle Pass	2.50	0.69	0.06	T.	0.45	0.58	1.41	3.95	3.00	3.76	4.32	.....	.....
Farleys Camp	6.80	0.35	0.18	0.00	0.35	0.00	0.41	4.35	0.00	.....	.....	.....	.....
Flagstaff	12.60	2.40	1.70	0.00	0.40	.....	0.00	.....	.....	.....	.....	.....	.....
Fort Apache	1.89	0.72	0.02	T.	1.00	0.01	0.74	5.44	1.68	3.02	2.39	1.12	18.03
Fort Grant	1.65	0.37	0.02	0.07	0.30	0.14	1.09	4.02	1.69	1.21	2.05	0.61	13.22
Fort Huachuca	1.00	0.08	0.04	0.03	0.02	0.87	2.75	2.80	2.93	0.35	2.73	0.55	14.15
Fort Mohave	.....	.....	.....	.....	.....	.....	.....	.....	T.	0.32	0.42	.....	.....
Gilabend	0.81	0.00	0.00	0.00	T.	0.00	0.30	1.40	T.	0.50	0.28	0.00	3.29
Gisela	.....	.....	.....	.....	.....	.....	0.63	1.75	0.79	1.13	3.57	0.58	.....
Holbrook	2.46	0.22	T.	0.30	0.31	0.11	0.85	0.70	0.62	1.24	3.58	0.00	10.39
Keams Canyon	2.73	1.02	0.09	0.19	0.44	0.02	0.97	1.59	.....	.....	.....	.....	.....
Maricopa	0.61	0.00	0.00	0.00	0.00	0.00	0.93	0.85	1.10	1.10	1.48	0.00	6.07
Mount Huachuca	1.84	0.00	.....	0.98	0.10	0.83	1.97	6.84	3.60	0.57	4.45	0.74	.....
Natural Bridge	7.16	1.72	0.30	0.22	0.41	0.08	1.35	3.38	1.18	0.60	4.25	0.95	21.60
Navajo	1.60	0.47	0.00	0.30	0.00	0.00	2.20	2.00	0.75	1.20	.....	.....	.....
Nogales	1.82	0.00	0.00	0.00	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oracle	2.39	0.16	0.03	0.09	0.38	0.28	2.12	3.12	2.23	2.18	0.63	0.83	20.44
Oro	2.04	0.80	0.14	.....	0.71	0.22	3.44	2.64	3.31	0.70	1.60	0.61	.....
Oro Blanco	.....	.....	.....	.....	T.	T.	2.25	5.65	1.33	0.50	3.70	0.09	.....
Pantano	1.60	0.00	0.00	0.00	0.03	0.00	0.39	5.83	0.72	0.55	2.28	0.00	11.40
Parker	1.88	0.02	T.	0.01	0.00	.....	.....	.....	.....	T.	0.32	0.00	.....
Payson	7.85	1.95	0.12	0.10	.....	0.01	0.45	2.12	1.05	.....	.....	.....	.....
Peoria	1.72	0.00	0.00	0.00	T.	0.00	0.00	0.10	0.00	1.39	1.35	0.20	4.76
*Phœnix	.....	.....	.....	.....	.....	.....	.....	0.27	0.10	0.80	0.89	0.09	.....
Pinal Ranch	.....	.....	0.31	T.	0.36	T.	0.63	5.88	.....	4.78	5.33	1.52	.....
Redrock	0.60	0.00	.....	0.00	T.	.....	.....	.....	.....	.....	.....	.....	.....
Reymert	3.86	0.12	0.00	0.00	0.07	.....	0.35	2.65	1.21	2.25	4.97	0.00	.....
Rye	5.56	0.80	0.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
St. Helena Ranch	.....	.....	.....	0.03	.....	.....	.....	6.43	.....	.....	.....	.....	.....
San Carlos	2.16	0.45	0.18	0.00	0.04	0.05	0.32	2.39	1.94	3.01	3.42	0.45	14.41
San Simon	0.55	0.00	0.00	0.00	0.63	0.20	0.37	0.10	0.55	0.08	0.30	0.00	2.78
Showlow	3.45	1.25	0.33	0.16	0.53	0.00	1.22	3.11	2.90	2.64	2.85	1.10	19.54
Signal	3.80	0.27	0.06	0.06	0.26	0.00	0.39	T.	T.	T.	0.65	T.	5.49
Sulphur Spring Valley	0.58	0.05	T.	T.	0.63	0.40	1.94	2.48	2.17	0.51	1.51	0.22	10.49
Texas Hill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.10
*Tucson	0.63	T.	T.	T.	0.10	T.	.....	.....	.....	.....	.....	.....	.....
Tucson[1]	0.56	T.	0.00	T.	[c]0.09	0.02	0.11	4.48	0.75	0.68	4.30	0.08	11.07
Walnut Ranch	0.87	0.00	0.07	0.00	0.52	0.06	5.51	3.01	1.93	0.47	3.30	0.61	16.35
Wells	.....	.....	.....	.....	.....	T.	0.16	0.64	0.38	0.98	2.61	0.17	.....
Whipple Barracks	4.37	0.55	T.	0.25	0.50	0.00	0.88	3.53	0.09	0.24	3.59	0.50	14.50
Wilgus	1.35	0.12	0.06	0.10	0.79	0.23	3.89	2.36	2.05	0.58	3.30	0.53	15.36
Willcox	0.11	0.00	0.00	0.00	0.77	0.00	1.92	3.06	0.11	0.08	1.59	0.40	8.04
*Yuma	0.78	0.02	T.	0.00	0.00	T.	0.01	T.	T.	0.15	0.37	0.00	1.33
Arkansas.													
*Arkadelphia	7.07	1.60	8.20	1.85	5.43	7.44	5.09	5.75	1.95	1.10	.....	.....	.....
*Arkansas City	5.30	0.30	5.55	2.70	1.25	5.25	4.55	1.85	1.35	0.90	3.25	1.10	33.35
Beebranch	4.15	.....	3.75	1.50	4.71	4.47	6.27	2.73	1.32	1.25	3.61	3.90	.....
Blanchard Springs	5.97	1.01	4.55	1.05	3.04	7.34	1.99	6.20	0.74	1.37	5.52	2.54	41.32
*Brinkley	6.18	0.80	5.85	3.20	3.30	8.83	7.00	1.27	2.75	2.46	6.80	3.55	51.99
*Camden[2]	7.58	1.11	6.05	2.59	5.40	5.15	4.22	3.32	3.69	1.49	4.33	2.06	46.99
Camden[3]	7.68	1.99	5.31	2.61	5.43	5.08	4.09	3.42	3.88	1.42	4.42	2.03	47.36
Conway	4.33	0.41	3.17	0.71	3.00	4.86	4.89	1.32	0.06	1.38	6.14	4.18	34.45
Corning	3.47	0.56	4.73	1.71	1.61	6.61	4.32	2.12	2.81	0.81	6.00	2.75	37.50
Dallas	4.20	1.88	4.41	1.38	7.23	5.76	10.38	1.20	1.85	2.20	4.87	5.84	51.20
*Dardanelle	2.90	0.10	3.63	2.35	3.70	4.30	5.54	2.00	0.75	1.00	3.30	1.71	31.28
Elon	5.55	1.11	7.68	3.90	2.74	9.76	1.34	3.43	0.26	1.14	3.71	2.75	43.37
Fayetteville	2.97	0.17	1.93	1.68	4.01	2.65	11.60	2.86	3.12	1.47	2.98	6.12	41.56
Forrest	6.99	0.62	3.23	2.53	2.60	4.27	9.54	0.63	2.85	2.23	7.17	2.81	45.47
*Fort Smith	2.24	0.20	2.78	1.41	3.74	6.64	14.99	4.98	2.36	1.28	3.25	6.00	49.87
*Fulton	3.82	1.23	5.56	3.52	5.16	4.73	4.82	2.62	0.92	1.94	2.95	1.48	38.75
Gaines Landing	.....	0.55	5.34	3.10	1.16	4.94	5.62	.....	1.62	0.37	2.95	1.43	.....
*Helena[2]	9.17	0.40	6.36	2.58	2.32	4.73	5.25	3.34	0.85	1.49	4.98	2.80	44.27
*Helena[4]	8.63	0.28	6.44	2.02	1.80	4.31	4.83	2.55	0.55	1.34	.....	2.60	.....
Hot Springs[5]	6.25	0.70	5.82	2.22	7.20	5.30	9.52	3.40	0.66	1.02	6.08	4.00	52.17
Hot Springs[6]	6.65	.....	6.69	2.12	7.18	5.50	10.76	6.09	0.87	0.81	6.68	3.70	.....
Hot Springs (near)	.....	.....	7.81	2.62	6.82	6.09	10.50	4.44	0.62	2.16	6.63	4.02	.....
Kesecee Ferry	2.73	0.27	3.22	1.58	3.28	7.93	6.71	2.19	3.11	0.80	3.63	7.42	42.87
Kirby	8.30	1.52	8.40	3.00	6.95	7.60	7.30	3.70	1.60	1.25	6.15	5.55	61.32
Lacrosse	2.58	[4]0.57	3.78	2.32	3.95	8.01	5.62	2.28	1.10	1.72	3.44	3.44	38.81
*Little Rock	7.12	0.63	7.78	1.47	2.85	9.25	6.13	3.96	0.41	2.22	5.26	2.50	49.58
Lonoke	5.00	0.64	6.19	1.63	2.81	5.25	7.86	4.44	0.25	1.62	5.75	2.87	44.31
Luna Landing	.....	.....	7.37	1.60	1.57	6.26	5.99	2.77	0.20	1.17	2.89	3.14	.....
Madding	.....	.....	5.56	1.81	3.51	13.06	4.43	0.93	1.06	.....	6.00	5.11	.....
*Malvern	.....	0.74	8.51	2.06	5.38	6.66	5.50	5.85	0.84	2.72	6.89	3.54	.....
Mossville	.....	0.87	5.00	1.78	5.73	5.66	10.57	2.30	1.38	1.43	.....	.....	.....
Mount Ida	.....	.....	.....	.....	.....	[1]5.50	7.81	3.43	2.32	.....	.....	.....	.....
Mount Nebo	3.73	0.73	5.47	1.39	4.09	3.15	7.35	2.03	2.42	1.68	4.54	5.82	42.40

[1] University of Arizona.
[2] River observer.
[3] C. L. Newman.
[4] Cotton region observer.
[5] Post hospital.
[6] H. H. Harrison.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Arkansas—Continued.													
New Gascony	9.38	1.20	5.27	2.11	3.46	10.79	8.45	0.95	1.02	1.93	6.05	2.56	53.17
*Newport[1]	5.25	0.27	5.74	1.90	2.99	3.61	9.68	1.11	1.70	1.02	5.95	4.28	43.50
*Newport[2]	5.85	0.30	6.02	1.89	2.78	4.08	10.25	0.81	1.72	0.65	5.76	4.72	44.83
Newport[3]	4.97	0.24	5.66	1.69	2.61	3.46	8.76	1.13	1.00	1.03	5.94	4.38	40.87
Osceola	5.89	0.75	5.76	1.73	1.53	1.15	8.55	0.73	0.75	1.10	7.68	4.63	40.25
Ozark	1.87	T.	5.11	1.97	4.86	6.34	13.64	1.58	2.25	1.63	2.82	6.39	48.46
*Pinebluff	.....	.....	7.10	1.26	5.57	9.91	[b]4.23	1.13	2.07	1.18	4.11	3.12	.....
Pocahontas	3.07	0.81	3.96	1.88	2.93	6.38	10.52	2.89	1.62	0.82	5.35	2.21	42.44
*Prescott	.....	.....	.....	.....	5.12	6.59	4.37	4.37	0.54	1.34	.....	.....	.....
Rison	7.94	0.74	6.60	1.09	4.22	6.84	3.77	2.65	1.15	1.09	5.08	3.00	44.17
*Russellville	.....	0.50	5.23	1.48	3.75	3.41	8.96	1.73	0.90	2.17	3.67	1.31	.....
Searcy	3.91	.....	4.10	2.04	4.92	4.67	5.26	3.35	0.03	.....	.....	.....	.....
Stuttgart	8.65	0.76	6.24	1.31	2.81	3.71	7.02	2.27	3.08	1.37	5.54	3.70	46.46
*Texarkana	3.29	0.58	5.29	3.10	4.95	2.57	6.42	1.12	1.20	2.91	.....	1.47	.....
Washington	4.59	0.98	7.62	2.82	5.53	8.10	4.66	4.30	1.14	1.26	4.07	3.42	48.49
Wiggs	.....	.....	.....	2.25	5.50	5.90	12.91	2.65	.....	0.90	6.53	5.24	.....
Winslow	3.93	0.29	2.58	1.83	6.43	5.79	16.74	2.39	0.93	2.70	3.24	10.04	56.89
Witts Springs	3.01	0.20	4.29	1.30	[c]4.06	1.66	11.57	1.17	0.71	1.10	4.02	9.47	42.56
California.													
Adin	4.23	0.79	1.20	1.31	2.58	0.00	0.20	0.37	2.31	0.00	0.60	2.26	15.85
Ager	3.14	0.80	1.12	0.33	0.94	0.00	0.62	0.58	0.58	0.00	0.53	2.71	11.35
Agnew	.....	0.16	2.02	1.88	0.83	0.00	0.00	0.00	0.07	0.33	1.36	1.15	.....
Arlington Heights	6.09	1.01	1.96	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.18	10.36
Athlone	3.21	2.42	1.24	0.65	0.62	0.00	0.00	0.00	0.02	0.25	0.81	0.76	9.98
Ballast Point light-house	5.51	0.54	1.69	0.09	0.20	0.00	0.00	0.00	0.00	0.12	1.56	0.35	10.06
Barstow	1.06	0.00	0.20	0.00	0.00	0.00	.....	.....	0.00	0.00	T.	0.00	.....
Bear Valley	29.22	6.64	7.42	3.25	6.57	0.00	0.04	0.20	5.18	1.25	2.08	9.45	71.30
Berkeley	10.88	3.25	2.64	2.30	1.06	0.00	0.04	0.00	1.28	0.07	1.78	2.20	25.50
Bishop	2.60	0.38	0.47	0.18	0.03	0.12	0.12	0.01	0.01	0.19	0.21	0.03	4.35
Bishop Creek	1.10	0.50	0.22	0.29	0.05	0.11	0.21	0.07	T.	0.16	0.15	T.	2.86
Boca	8.36	1.20	0.45	0.70	0.90	T.	0.00	T.	0.97	0.11	0.71	3.07	16.47
Bodie	.....	.....	0.47	0.73	0.44	0.29	0.03	0.26	0.50	0.37	0.80	1.35	.....
Bowmans Dam	.....	8.77	9.65	.....	9.15	0.00	T.	0.37	10.12	0.45	2.81	11.20	.....
Borden	2.91	1.55	0.94	0.20	0.54	0.00	0.00	0.00	0.00	0.00	0.36	[j]0.52	7.02
Caliente	5.28	3.10	1.67	0.85	0.87	0.00	0.00	0.00	0.00	2.31	1.51	1.20	16.79
Calloway Canal	2.43	0.40	0.87	0.30	0.42	0.00	0.00	0.00	0.00	0.55	0.73	0.22	5.92
Cape Mendocino light-house	2.00	4.96	8.08	2.93	4.26	0.00	0.33	0.31	1.89	0.04	2.76	6.93	44.49
Cedarville	1.51	1.09	0.49	0.66	1.47	0.00	0.11	0.54	1.23	0.09	0.26	1.84	9.29
Centerville	6.81	2.55	2.15	1.73	0.86	0.00	T.	0.00	0.75	0.72	1.80	1.36	18.73
Chico	11.77	2.58	2.67	3.25	0.51	0.00	0.47	0.00	3.15	0.00	1.17	1.78	27.35
Claremont	8.26	1.91	4.20	1.23	0.38	0.00	0.00	0.00	T.	0.05	1.22	0.90	18.15
Cloverdale	26.45	5.05	5.16	2.00	2.45	0.00	0.17	0.00	2.64	0.12	2.20	5.63	51.87
Colegrove	5.84	0.70	4.43	0.50	0.09	0.00	0.00	0.00	0.00	0.22	1.11	0.98	13.87
Corning	14.62	2.83	3.42	0.90	0.20	0.00	0.00	0.00	.....	0.00	1.25	2.17	.....
Coronado	.....	.....	.....	.....	.....	.....	.....	.....	0.01	0.27	1.19	0.27	.....
Crescent City	12.16	4.80	6.44	4.35	6.79	0.10	0.77	0.05	3.16	0.00	1.79	7.11	47.52
Crescent City light-house	11.40	5.12	7.46	5.33	8.47	0.15	0.92	0.06	3.66	0.00	2.73	9.83	55.13
Davisville	8.71	1.82	1.30	0.65	0.48	0.00	0.02	0.00	0.98	0.03	1.25	1.19	16.43
Delano	2.79	0.63	0.34	0.31	0.33	0.00	0.00	0.00	T.	0.65	0.90	0.12	6.07
Delta	18.55	7.03	7.72	1.71	.....	0.00	1.07	0.00	5.18	0.00	2.15	6.38	.....
Drytown	9.89	3.24	3.39	3.64	2.57	0.00	T.	T.	1.10	0.13	0.67	1.96	26.59
Dunnigan	10.38	0.76	1.23	1.46	0.30	0.00	0.04	0.00	1.59	0.38	1.41	1.26	18.81
Durham	.....	2.38	2.40	2.66	0.63	0.00	.....	.....	3.23	0.00	1.21	1.55	.....
East Brother light-house	8.35	0.96	1.06	0.16	0.25	0.00	0.00	0.00	0.50	0.05	1.85	1.10	14.28
Edgewood	4.56	0.36	2.84	0.08	0.73	0.00	0.66	0.94	1.59	0.05	1.05	2.21	15.07
Edmonton	26.11	5.83	10.59	3.80	7.18	0.00	0.88	0.27	9.35	1.13	3.48	9.22	77.84
Escondido	10.55	0.95	1.20	0.50	0.35	0.00	0.00	0.00	T.	0.25	1.73	0.50	16.03
*Eureka	9.37	3.60	5.31	2.88	5.39	0.06	0.23	0.11	3.14	0.05	3.88	7.50	41.52
Evergreen	6.56	1.73	2.18	2.02	1.25	0.00	0.00	0.00	0.11	0.90	1.48	1.19	17.42
Fallbrook	12.52	1.59	2.14	0.61	0.24	0.00	0.00	0.00	0.00	0.06	1.46	0.47	19.09
Florin	7.08	1.48	1.29	.....	0.81	.....	.....	.....	.....	.....	.....	.....	.....
Folsom City	11.24	2.59	2.53	2.05	1.43	0.00	T.	T.	1.43	0.09	2.06	1.73	25.15
Fordyce Dam	31.34	12.55	10.61	3.29	10.02	0.00	0.60	T.	5.62	0.44	2.71	10.19	87.37
Fort Bragg	.....	.....	.....	.....	.....	0.05	0.40	0.02	3.40	0.09	2.55	4.84	.....
Fort Ross	28.50	6.02	6.57	2.60	3.84	0.00	1.31	0.00	3.93	0.00	5.34	6.02	64.13
Fort Tejon	.....	.....	.....	1.42	.....	0.00	0.00	0.00	.....	1.42	1.42	1.25	.....
Fremontville	6.76	1.03	2.19	0.26	0.17	0.00	0.00	0.00	.....	.....	.....	.....	.....
*Fresno	4.14	1.70	1.84	0.99	0.52	0.00	T.	T.	0.07	0.16	0.19	0.78	10.39
Georgetown	20.52	7.69	4.67	4.77	4.30	0.00	0.03	0.07	2.64	0.20	2.18	7.27	54.34
Glendora	12.24	2.59	5.93	1.67	0.62	0.00	0.00	0.00	0.00	0.00	1.48	1.15	25.68
Goshen	3.74	1.05	0.94	0.25	0.00	0.00	0.00	0.00	0.00	0.31	0.98	0.25	7.62
Grass Valley	22.26	6.18	5.01	3.38	3.46	0.00	0.25	0.24	3.87	0.02	1.17	7.27	53.11
Greenville	23.78	3.56	5.29	2.29	3.42	0.00	0.35	0.48	5.64	0.75	1.60	5.17	52.33
Healdsburg	27.69	3.61	4.75	1.37	1.49	0.00	0.55	0.00	2.22	.....	3.30	4.56	.....
Hendersons Ranch	6.35	0.95	2.00	0.10	0.05	0.00	0.00	.....	.....	.....	.....	.....	.....
Hollister	5.74	1.49	1.95	1.34	1.00	0.00	0.02	0.00	0.06	0.82	0.88	1.07	14.37
Hueneme	4.78	0.55	1.62	0.24	0.09	0.00	0.00	0.00	0.00	0.23	1.09	0.23	8.83
Humboldt light-house	9.82	4.68	7.10	2.72	4.14	0.10	0.22	0.08	3.48	0.04	3.40	7.47	43.25
Hydesville	10.45	3.87	5.09	1.94	2.92	0.00	0.51	0.17	3.09	T.	2.36	6.17	36.57
*Independence	1.24	1.18	0.12	T.	0.01	T.	T.	0.04	T.	0.83	0.67	0.08	4.17
Indio	6.01	0.00	0.00	0.00	0.00	T.	0.00	0.00	0.00	0.00	0.00	0.00	6.01
Iowa Hill	18.64	5.57	4.60	3.93	3.92	0.00	0.03	0.27	2.91	0.17	1.61	5.87	47.52
Jackson	12.04	6.22	3.86	3.92	2.68	0.00	0.07	T.	1.14	0.28	0.93	3.67	34.81
Jolon	6.16	0.32	1.68	0.85	0.02	0.00	0.00	0.00	0.03	1.80	0.96	0.50	12.32
Julian	16.32	3.80	5.04	0.95	0.45	T.	T.	0.70	0.00	0.70	2.60	0.75	31.31
Keeler	0.35	1.15	T.	0.25	T.	T.	T.	T.	T.	0.00	0.00	T.	1.75
Keene	6.93	2.71	2.40	1.95	1.25	0.00	0.00	0.00	0.00	1.37	1.65	1.90	19.26
Kennedy Gold Mine	13.11	5.39	4.48	5.08	3.18	0.00	0.00	0.00	1.71	0.19	0.90	3.62	37.66
Kernville	5.10	1.55	1.80	0.37	0.00	0.00	0.00	0.00	0.00	0.50	0.95	0.40	10.67

[1] River observer. [2] Cotton region observer. [3] G. B. Irby.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
California—Continued.													
King City	3.89	0.35	1.51	0.40	0.13	0.00	0.00	0.00	0.05	1.46	0.51	0.49	8.79
Kingsburg	3.33	0.94	1.15	0.58	0.36	0.00	0.00	0.00	0.00	0.13	0.53	0.55	7.57
Kono Tayee	14.45	2.32	3.13	0.98	1.14	0.00	0.00	T.	0.71	0.00	1.69	2.12	26.54
Lagrange	5.17	2.60	2.50	1.40	0.97	0.00	0.00	0.00	0.20	0.54	0.72	1.55	15.65
Laporte	22.01	6.65	6.12	4.00	8.55	0.00	1.41	0.29	8.42	0.69	3.35	9.98	71.47
Lemoore	2.32	0.74	1.01	0.33	0.26	0.00	0.00	0.00	T.	0.83	0.70	0.24	6.43
Lick Observatory	10.00	3.08	1.46	2.30	2.39	0.00	0.01	0.00	0.08	0.78	2.46	3.16	25.72
Lime Point light-house	7.27	2.65	1.75	1.25	0.60	0.00	0.00	0.00	1.32	0.04	1.85	1.62	18.35
Lodi	7.46	2.35	1.45	1.24	0.63	0.00	0.00	T.	0.88	0.13	1.24	1.50	16.88
Los Alamos	6.90	1.20	1.44	0.43	0.56	0.00	0.00	0.00	0.00	0.33	0.85	0.50	12.21
*Los Angeles	5.84	0.46	3.77	0.46	0.19	0.01	T.	T.	T.	0.24	0.80	0.78	12.55
Los Gatos	14.67	1.95	3.96	2.87	1.00	0.00	0.00	0.00	0.24	1.59	1.24	2.22	29.74
McMullin	.....	.....	.....	.....	0.00	0.00	0.00	0.00	.....	.....	.....	.....	.....
Malakoff Mine	24.40	7.28	7.01	5.18	6.03	0.00	0.14	0.41	6.22	0.56	2.27	7.36	66.86
Mammoth Tank	0.80	T.	T.	0.00	0.00	T.	0.00	0.00	0.00	0.00	0.12	0.00	0.92
Manzana	2.79	0.00	1.36	0.08	T.	0.00	0.00	0.00	0.00	0.40	0.48	0.18	5.29
Mare Island light-house	8.21	1.95	2.09	1.72	0.49	0.00	0.00	0.00	1.21	0.06	1.58	1.11	18.42
Mariposa	11.79	5.66	3.37	3.08	0.92	.....	.....	.....	.....	.....	.....	.....	.....
Merced	2.12	1.71	1.17	0.50	0.64	0.00	0.00	0.00	0.00	0.50	0.69	1.03	8.36
Middletown	28.90	3.40	5.87	1.77	1.75	0.00	0.10	0.00	1.86	0.00	3.06	5.59	52.30
Mills College	9.79	3.60	2.39	1.47	1.18	0.00	0.00	0.00	0.64	0.28	1.91	1.93	23.19
Milton (near)	8.65	2.30	2.31	2.91	1.10	0.00	T.	0.00	0.59	0.08	1.11	3.09	22.14
Modesto	4.05	1.39	1.83	1.17	0.45	0.00	0.00	0.00	0.13	T.	0.70	1.28	11.00
Mohave	2.66	0.53	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.14	0.00	5.14
Mokelumne Hill	10.06	4.40	3.73	4.03	2.56	0.00	0.00	T.	0.83	0.12	1.12	2.88	29.73
Monterey	6.30	.....	1.94	0.89	0.58	0.00	0.00	0.00	0.00	0.78	0.82	1.46	.....
Mountainview	5.60	1.37	1.72	0.66	0.68	0.00	.....	.....	.....	.....	.....	.....	.....
Mount Frazier	.....	.....	.....	.....	0.40	0.00	0.00	0.00	0.00	0.30	0.90	0.68	.....
Mount Glenwood	15.40	2.15	2.38	1.41	0.77	0.00	0.09	0.00	0.95	0.07	2.06	2.53	27.81
Mutah Flat	9.80	0.78	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.65	1.60	1.10	16.88
Napa	9.35	2.92	2.21	1.11	0.85	0.00	0.03	0.00	1.16	0.03	1.72	1.47	20.85
Needles	1.38	0.03	0.06	0.09	0.00	0.00	T.	T.	0.18	T.	T.	0.00	1.74
Nevada City	22.87	5.53	5.12	3.82	3.42	0.00	0.15	0.29	3.36	0.00	1.87	6.14	52.57
Newcastle	13.10	3.42	3.42	2.49	1.69	0.00	0.04	0.02	2.00	T.	1.40	2.91	30.49
Newhall	7.11	0.31	3.66	0.39	0.00	0.00	0.00	0.00	0.00	0.10	1.09	.....	.....
Nordhoff	8.61	0.46	3.38	0.35	0.00	0.00	0.00	0.00	0.00	0.07	0.62	0.62	14.11
Oakland	11.32	3.09	2.00	1.93	1.12	0.00	0.03	0.00	1.07	0.13	2.09	1.74	24.52
Ogilby	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.15	0.75
Oleta	13.25	5.75	3.94	4.25	2.25	0.00	T.	T.	2.13	0.12	0.74	3.50	35.93
Ontario	10.65	1.64	3.72	0.73	0.30	0.00	0.00	0.00	0.00	0.06	1.18	0.62	18.84
Orangevale	9.53	2.42	2.23	1.54	1.12	0.00	T.	T.	1.50	0.14	1.68	1.86	22.02
Orland	8.25	2.66	2.09	1.24	0.58	0.00	0.27	0.00	1.67	0.00	1.34	1.15	19.25
Ormonde	22.23	5.34	6.60	4.16	5.60	0.00	0.02	0.16	4.37	1.30	2.18	6.82	58.78
Oroville	11.92	0.85	2.60	2.65	0.65	0.00	0.33	0.00	4.25	0.11	1.85	2.59	27.80
Palermo	10.08	2.83	1.91	1.96	0.76	0.00	0.30	0.05	3.76	0.06	1.20	0.67	23.58
Pasadena	7.56	.....	4.27	0.61	0.41	.....	0.00	0.00	T.	.....	.....	.....	.....
Paso Robles	6.43	0.47	1.28	0.48	0.08	0.00	0.00	0.00	0.00	0.61	1.53	0.55	11.43
Petaluma	9.89	2.67	2.55	0.61	0.81	0.00	0.08	0.00	0.36	0.15	.....	.....	.....
Picacho	.....	.....	.....	.....	.....	.....	.....	.....	.....	T.	0.50	0.00	.....
Piedras Blancas light-house	4.86	1.66	2.28	0.94	0.39	0.00	0.00	0.00	0.10	3.15	1.26	0.25	14.89
Pigeon Point light-house	6.52	1.33	1.79	1.57	1.04	0.00	0.00	0.00	0.18	0.12	0.87	1.83	15.25
Pilot Creek	20.54	8.23	6.27	4.36	5.72	0.00	T.	0.18	2.84	0.61	1.72	8.28	58.75
Placerville	17.85	5.07	4.43	4.75	2.58	0.00	T.	T.	1.79	0.16	0.77	5.24	42.64
Point Ano Nuevo light-house	4.91	0.66	0.55	1.00	1.16	0.00	0.00	0.00	0.04	0.03	1.63	0.14	10.12
Point Arena light-house	13.61	3.53	4.99	2.05	2.47	0.00	0.25	0.00	2.31	0.05	3.06	4.53	36.85
Point Bonita light-house	12.16	3.55	3.14	1.28	1.17	0.00	0.00	0.00	1.92	0.26	2.82	2.78	29.08
Point Conception light-house	3.86	0.67	1.37	0.43	0.70	0.00	0.00	0.00	0.00	1.11	0.68	0.18	9.00
Point Fermin light-house	4.55	0.50	2.65	0.13	0.30	0.00	0.00	0.00	0.00	0.05	1.42	0.20	9.80
Point George light-house	10.04	2.20	5.73	2.66	4.55	0.00	0.07	0.00	3.95	0.00	0.94	2.54	32.68
Point Hueneme light-house	5.31	0.74	1.89	0.19	0.20	0.00	0.00	0.00	0.00	0.22	1.25	0.38	10.18
Point Lobos	5.61	2.30	1.91	1.09	0.75	0.00	0.03	0.01	0.88	0.11	2.33	1.06	16.08
Point Loma light-house	3.74	0.38	1.05	0.10	0.04	0.00	0.00	0.00	0.00	0.07	0.61	0.05	6.04
Point Montara light-house	8.65	1.63	1.68	1.58	0.89	0.00	0.00	0.00	0.50	1.15	1.37	2.18	19.63
Point Pinos light-house	9.22	1.91	2.41	1.55	0.82	0.00	0.05	0.00	0.14	0.67	1.34	2.38	20.49
*Point Reyes	9.43	1.34	2.63	1.02	1.29	0.02	0.40	T.	1.72	0.42	2.52	2.27	23.06
Point Reyes light-house	9.43	1.34	2.63	1.02	1.25	0.02	0.40	0.00	1.72	0.41	2.52	2.27	23.01
Point Sur light-house	8.27	1.54	2.25	1.89	0.66	0.00	0.11	0.00	0.00	0.92	1.14	1.30	18.08
Pomona (near)	8.73	1.39	3.56	0.66	0.00	0.00	0.00	0.00	0.00	0.08	1.08	0.66	16.16
Portersville	3.82	1.54	1.10	0.41	0.35	0.00	0.00	0.00	T.	0.23	1.71	0.51	9.67
Poway	12.65	1.08	1.24	0.46	0.26	0.00	0.00	T.	0.00	0.25	1.44	0.57	17.95
Quincy	.....	.....	.....	2.09	3.86	0.00	0.37	0.35	6.27	0.44	1.53	5.07	.....
Ravenna	2.35	0.55	1.87	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	5.49
*Redbluff	8.29	2.86	2.59	0.34	1.65	0.00	0.16	T.	1.76	T.	1.93	2.99	22.57
Redding	12.84	3.08	2.78	0.99	2.61	0.00	0.95	T.	3.24	0.01	2.12	4.36	32.98
Redlands	8.66	1.30	3.27	1.37	0.57	0.00	0.00	0.00	0.00	0.03	2.03	0.52	17.75
Reedley (near)	4.00	2.10	1.55	0.55	0.40	0.00	T.	0.00	0.00	0.20	0.15	0.60	9.55
Represa	11.36	2.64	2.50	2.26	1.83	0.00	0.00	T.	1.45	0.07	1.98	1.95	26.04
Rio Vista	7.96	2.60	1.00	0.91	0.84	0.00	0.00	T.	1.18	0.19	1.82	1.17	17.67
Riverside	6.21	1.01	2.42	0.25	0.26	0.00	T.	0.00	0.00	T.	1.25	0.25	11.65
Robertsons Mill	.....	.....	.....	.....	.....	.....	.....	0.00	0.00	0.20	0.52	.....	.....
Roe Island light-house	6.93	2.15	1.10	0.85	0.75	0.00	0.00	0.00	0.70	0.00	1.15	1.25	14.88
Rosewood	11.93	2.34	2.27	1.26	0.42	0.00	0.45	T.	0.81	0.97	1.70	3.25	25.40
*Sacramento	8.42	1.84	1.20	0.86	0.51	0.00	0.04	T.	1.26	0.17	1.54	1.54	17.38
Sacramento[1]	9.17	1.74	1.29	0.90	0.66	0.00	0.03	T.	1.38	0.27	1.55	1.50	18.51
Salinas	5.05	1.33	2.07	0.94	0.45	0.00	.....	0.00	.....	.....	.....	.....	.....
Salton	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	T.	T.	0.00	T.
San Bernardino	7.39	1.14	3.44	0.64	0.44	0.00	0.00	0.00	0.00	0.00	1.14	0.66	14.85
*San Diego	7.33	0.53	1.43	0.11	0.19	0.00	0.00	0.00	0.01	0.27	1.19	0.27	11.33
*San Francisco	6.99	2.31	1.89	1.24	0.60	0.00	0.01	0.00	0.77	0.11	1.78	1.43	17.13
San Jacinto	7.81	1.53	0.99	0.51	0.26	0.03	T.	T.	0.00	T.	2.09	0.34	13.56

[1] S. H. Gerrish.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
California—Continued.													
San Jose	6.28	1.42	1.46	2.05	1.36	0.00	0.00	0.00	0.05	0.83	1.08	0.84	15.37
San Leandro	8.21	2.69	2.06	1.96	0.82	0.00	0.08	0.00	0.63	0.26	2.31	2.25	21.27
San Luis light-house	6.04	1.19	2.33	0.91	0.35	0.00	0.00	0.00	0.00	0.99	1.90	0.53	14.24
*San Luis Obispo	8.05	1.82	2.44	0.67	0.47	0.00	0.00	T.	T.	1.80	1.56	0.68	17.49
San Luis Obispo[1]	8.02	1.90	2.93	0.70	0.48	0.00	0.00	0.01	T.	1.67	1.71	0.84	18.26
San Mateo	9.50	.....	0.05	1.61	0.38	0.00	0.00	0.00	.....	0.33	2.08	1.63	.....
San Miguel	4.22	0.33	1.10	0.47	0.09	0.00	0.00	0.00	0.00	0.56	1.05	0.56	8.38
San Miguel Island	4.10	0.63	2.12	0.10	0.05	0.00	0.00	0.00	0.00	1.27	0.40	0.48	9.15
San Rafael	18.75	2.70	4.06	0.91	0.88	0.00	0.00	0.00	1.74	0.15	2.69	3.99	35.87
Santa Ana	7.10	0.90	2.96	0.60	0.10	0.00	0.00	0.00	0.00	0.00	0.80	0.70	13.16
Santa Barbara	6.25	0.67	1.99	0.46	0.02	0.05	T.	0.00	0.00	0.55	0.77	0.93	11.69
Santa Barbara light-house	6.34	0.58	1.87	0.38	0.00	0.06	0.00	0.00	0.00	0.45	0.88	0.98	11.54
Santa Clara[2]	5.93	1.24	2.03	1.94	0.98	0.00	0.00	0.00	0.15	0.49	1.17	0.77	14.70
Santa Clara[3]	4.37	1.10	2.00	1.92	0.11	0.00	0.00	0.00	0.13	0.54	.....	.....	.....
Santa Cruz	9.11	4.07	3.08	2.02	1.15	0.00	0.00	0.00	0.18	0.49	1.89	2.15	24.14
Santa Cruz light-house	9.18	3.01	2.90	1.88	0.46	0.00	0.00	0.00	0.12	0.25	1.66	2.40	21.86
Santa Maria	4.43	1.22	1.25	0.53	0.51	0.00	T.	0.00	0.01	0.65	1.26	0.60	10.46
Santa Monica	6.76	0.28	2.53	0.30	0.08	0.00	0.00	0.00	0.00	0.18	1.10	0.33	11.56
Santa Paula	6.90	0.60	3.13	0.30	0.00	0.00	0.00	0.00	.....	.....	0.90	0.85	.....
Santa Rosa	13.42	3.35	2.94	1.35	1.39	0.00	0.33	0.00	.....	0.00	1.83	2.95	.....
Saticoy	6.78	0.74	2.47	0.16	0.00	0.00	0.00	T.	0.00	0.00	0.58	0.50	11.23
Shasta	.....	.....	.....	.....	.....	0.00	1.12	T.	4.83	0.12	2.68	5.53	.....
Shasta Springs	11.82	4.90	7.20	3.06	4.10	0.35	0.85	0.10	5.10	0.00	2.00	3.02	42.50
Skye Valley	15.74	.....	1.29	0.42	0.35	0.00	0.00	0.00	0.02	.....	.....	.....	.....
Sneddens Ranch	6.31	0.49	1.50	0.11	0.00	0.00	0.00	0.00	0.00	0.16	0.91	0.55	10.03
S. E. Farallone light-house	8.45	1.44	2.83	0.48	0.15	0.00	0.00	0.00	1.76	0.12	2.23	1.74	19.20
Stanford University	6.54	1.45	1.69	1.55	0.66	0.00	0.00	0.00	0.11	0.67	1.11	0.11	13.89
Stockton	5.24	1.70	1.00	0.63	0.77	0.00	0.00	0.00	0.50	0.26	1.09	1.20	12.39
Summerdale	16.04	5.29	5.81	2.32	2.34	0.00	T.	T.	0.88	0.79	1.71	3.11	38.29
Susanville	10.29	3.00	1.26	0.50	1.50	T.	T.	0.20	3.00	0.10	1.95	2.91	24.71
Suttercreek	9.34	2.35	2.50	3.95	2.33	0.00	0.00	0.00	1.19	0.08	0.26	2.47	24.47
Tecarte Dam	19.24	2.00	1.43	0.51	0.39	0.00	0.00	0.00	0.04	0.63	3.00	0.56	27.80
Tehama	11.23	2.85	2.32	0.48	0.80	0.00	0.60	0.00	2.13	.....	1.47	2.50	.....
Tejou Ranch	5.05	1.39	1.70	1.11	0.49	0.00	0.00	0.00	0.00	2.13	1.41	1.06	14.34
Templeton	7.71	0.86	1.44	0.81	0.22	0.00	0.00	0.00	.....	1.14	1.83	1.21	.....
Trinidad light-house	8.08	3.30	5.40	2.50	4.39	0.00	0.41	0.00	3.81	0.00	2.06	6.99	36.94
Truckee	11.73	1.92	1.72	0.50	2.40	0.00	0.00	0.00	1.32	0.34	.....	2.96	.....
Tulare[4]	4.11	1.40	0.76	0.77	0.59	0.00	T.	0.00	T.	0.51	1.13	0.45	9.72
Tulare[5]	3.52	1.23	0.86	0.60	0.60	0.00	0.00	0.00	0.20	0.43	0.98	0.36	8.78
Turlock	3.66	1.25	2.11	1.07	0.39	0.00	T.	0.00	0.13	0.21	0.82	0.84	10.48
Ukiah	19.20	5.17	4.80	1.36	1.96	0.00	0.11	0.00	1.70	0.21	2.81	4.98	42.30
Upper Lake	14.92	4.15	3.20	1.41	1.39	0.00	0.05	T.	.....	T.	.....	.....	.....
Upper Mattole	23.37	8.88	10.20	6.81	7.20	0.00	0.86	0.00	9.57	0.00	4.73	9.58	81.20
Vacaville	12.81	3.04	2.07	2.08	1.02	0.00	T.	0.00	0.80	0.06	2.15	1.87	25.90
Ventura	6.11	1.00	3.17	0.47	0.07	0.00	0.00	T.	T.	0.10	0.74	0.67	12.33
Volcano Springs	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.42
Walnut Creek	9.64	2.35	1.64	1.06	0.48	0.00	0.05	0.00	0.42	.....	.....	1.49	.....
Wenrich Ranch	4.79	0.67	1.85	0.36	0.60	0.00	0.00	0.00	0.00	0.36	.....	.....	.....
Westpoint	14.80	6.55	4.65	3.44	3.27	0.00	0.00	T.	1.74	0.85	1.35	3.83	40.48
Wheatland	8.95	2.06	1.63	1.34	1.29	0.00	0.05	T.	2.63	0.10	1.59	1.51	21.15
Williams	6.32	1.28	1.34	0.75	0.13	0.00	T.	0.00	0.88	0.13	1.25	1.01	13.09
Willows	9.97	1.65	1.55	0.90	0.78	0.00	0.08	0.08	1.21	1.29	2.48	0.82	20.81
Wilmington	.....	.....	.....	T.	0.00	0.00	0.00	0.00	0.00	0.00	.....	.....	.....
Wire Bridge	14.44	3.15	3.34	3.46	2.21	0.00	T.	0.25	1.81	0.14	1.27	2.74	32.81
Yerba Buena light-house	7.10	2.42	1.24	1.13	0.25	0.00	0.00	0.00	0.82	0.00	1.03	1.22	15.21
Yreka	5.30	1.03	2.26	0.81	1.59	0.00	0.43	0.68	0.82	T.	0.86	4.31	18.09
Yuba City	9.58	1.75	1.12	1.00	0.58	0.00	T.	T.	2.79	0.06	1.85	1.25	19.98
Engineers Quarters[6]	15.25	2.01	8.82	1.31	0.00	0.00	0.00	0.00	0.00	0.00	2.65	1.75	31.79
Morses House[6]	18.00	5.85	12.54	2.91	0.00	0.00	0.00	0.00	0.00	0.00	4.18	3.11	46.59
Grass Valley[6]	16.65	3.39	10.13	1.92	0.00	0.00	0.00	0.00	0.00	0.00	3.26	2.32	37.67
Deep Creek[6]	13.14	2.13	7.21	1.36	0.00	0.00	0.00	0.00	0.00	0.00	2.45	1.09	27.38
Holcomb Creek[6]	10.06	0.61	4.86	0.62	0.00	0.00	0.00	0.00	0.00	0.00	1.66	0.41	18.22
Squirrel Inn[6]	14.22	5.35	9.58	2.53	0.00	0.00	0.00	0.00	0.00	0.00	2.92	1.98	36.58
Green Valley[6]	14.38	1.94	9.24	1.24	0.00	0.00	0.00	0.00	0.00	0.00	5.04	1.40	33.24
Tunnel No. 2[6]	9.94	0.92	5.32	0.86	0.00	0.00	0.00	0.00	0.00	0.00	2.34	0.96	20.34
Colorado.													
Abbott	0.65	0.42	0.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Alma	1.31	0.98	0.83	0.82	4.49	1.99	5.49	3.42	0.90	2.60	1.13	0.35	24.31
Antlers	1.36	0.57	0.67	0.35	1.06	0.72	1.66	1.48	0.73	1.03	1.45	0.36	11.44
Arkins	0.21	.....	0.98	1.89	4.95	4.60	5.84	0.57	0.51	1.15	.....	.....	.....
Boulder	0.30	0.66	1.98	1.89	4.28	3.77	.....	.....	.....	.....	.....	.....	.....
Boxelder	0.48	1.43	1.59	0.99	3.51	2.96	4.34	1.93	0.32	1.54	0.53	0.16	19.83
Breckenridge	3.29	2.31	2.37	1.88	4.39	1.81	2.43	3.62	1.11	1.95	1.76	2.67	29.59
Canyon	0.08	1.20	0.44	1.31	3.04	1.78	3.80	1.71	0.14	2.38	0.58	0.43	16.89
Capps	.....	.....	.....	1.30	4.35	.....	3.00	0.25	0.15	0.20	.....	1.90	.....
Castlerock	.....	.....	.....	.....	2.67	4.43	2.75	2.43	0.35	1.16	0.80	0.20	.....
Climax	5.80	6.00	2.40	4.40	7.40	1.80	3.85	4.75	1.05	1.60	1.50	4.50	45.05
Collbran	2.96	1.21	1.15	[b]0.52	0.69	0.72	1.52	1.86	1.25	1.15	2.65	1.48	17.14
Colorado Springs	0.10	0.71	0.40	0.60	2.70	4.56	3.79	1.89	0.15	1.66	0.32	0.18	17.06
Cope	1.19	1.07	0.50	1.98	2.46	1.87	5.30	[b]0.65	0.48	.....	0.22	0.10	.....
Craig	0.42	0.26	0.22	.....	.....	.....	1.58	0.43	1.06	0.15	.....	.....	.....
Crook	0.80	0.62	0.20	1.08	1.85	2.60	2.25	1.25	0.60	0.10	0.90	0.08	12.33
Deertrail	.....	.....	.....	.....	1.75	5.00	2.70	.....	.....	.....	.....	.....	.....
Delta	1.15	0.04	0.23	0.20	0.03	0.66	1.16	0.97	0.65	0.43	1.55	0.00	7.07
Denver	0.32	0.48	1.19	1.19	2.86	2.65	4.28	0.76	0.98	1.13	0.27	0.01	16.12
Divide Experiment Station	0.19	0.98	1.95	1.51	4.33	5.12	3.44	1.63	0.27	1.14	0.53	0.71	21.80

[1] The Tribune. [2] A. Block. [3] R. L. Higgins. [4] John Twohy. [5] Experiment station.
[6] Records furnished by the Arrowhead Reservoir Company, in the San Bernardino Mountains, San Bernardino County, Cal., at elevations varying from 4,900 to 6,900 feet.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Colorado—Continued.													
Downing	0.23	0.13	0.15	0.65	2.26	1.22	4.36	2.53	0.08	0.62	.....	.....	.....
Dumont	0.40	0.90	1.50	1.30	5.61	4.18	3.75	2.25	2.12	2.38	0.40	T.	24.79
Durango	2.10	1.38	T.	T.	0.99	0.37	1.78	2.81	0.92	1.80	2.22	1.20	.....
Eastdale	.....	.....	.....	T.	1.95	.....	3.40	3.35	.....	.....	.....	.....	.....
Firstview	.....	.....	.....	.....	2.14	2.74	6.12	0.40	.....	.....	.....	.....	.....
Fleming	1.30	1.70	0.40	2.00	2.05	2.63	2.81	1.28	0.55	0.10	0.50	0.10	15.42
Fort Collins	0.24	1.52	0.54	1.36	3.62	3.65	3.75	1.45	0.47	1.06	0.40	0.01	18.07
Fox	0.73	0.22	0.05	1.69	2.54	2.25	6.72	0.89	0.23	0.00	1.00	0.17	16.49
Garnett	T.	0.22	0.03	0.03	2.49	0.66	3.21	1.98	T.	1.10	0.65	T.	10.37
Gleneyrie	0.11	0.87	1.26	0.49	3.21	4.56	4.46	2.46	0.22	1.93	0.51	0.49	19.57
Golden	.....	0.93	1.98	1.71	6.99	3.25	.....	.....	.....	.....	.....	.....	.....
Goldhill	0.31	1.60	3.16	2.05	5.50	3.67	4.51	2.02	0.85	2.71	0.56	0.08	27.02
Grand Junction	1.24	0.80	0.62	0.14	0.35	0.37	1.43	2.24	0.25	0.92	2.39	0.10	10.85
Greeley	0.27	1.01	0.56	1.03	3.13	3.34	1.34	0.38	.....	.....	0.40	T.	.....
Gulch	1.64	1.12	1.30	0.61	1.98	1.28	3.86	1.77	1.58	1.33	1.36	0.50	17.83
Gunnison	2.79	0.32	0.22	0.10	1.80	0.58	1.86	1.14	0.28	1.33	1.00	0.90	12.32
Holly	0.60	0.29	0.10	0.44	1.99	3.65	6.51	0.93	T.	0.22	0.30	0.80	15.83
Holyoke[1]	0.42	0.67	0.10	0.76	2.74	1.36	2.49	1.27	1.39	0.16	0.37	0.35	12.08
Holyoke[2]	.....	0.71	T.	.....	2.70	0.61	2.65	2.42	0.45	0.15	0.30	0.60	.....
Hugo (near)	0.15	0.42	0.28	0.85	2.05	3.79	4.07	2.08	0.12	0.15	0.10	0.11	14.17
Husted	0.10	0.79	0.74	1.14	2.86	5.08	5.77	3.08	0.25	1.75	0.51	0.64	22.71
Jamestown	.....	.....	.....	.....	.....	.....	.....	.....	0.41	2.15	0.54	T.	.....
Julesburg	0.05	0.39	0.03	0.22	2.87	3.27	1.63	1.47	0.39	0.25	0.06	T.	10.63
Lajara	0.22	0.30	0.27	0.20	1.41	0.23	2.66	1.93	0.05	1.25	0.86	0.06	9.44
Lake Moraine	0.80	0.55	1.35	1.20	4.20	3.64	4.80	3.95	0.30	1.65	0.57	0.88	23.89
Lamar	.....	.....	0.09	0.25	1.78	0.69	7.99	2.71	0.00	0.18	0.24	.....	.....
Laporte	0.38	1.63	1.07	1.15	3.58	2.91	3.14	2.63	0.66	1.09	0.65	0.25	19.14
Las Animas	0.60	0.70	0.00	0.07	2.06	0.16	4.00	5.00	T.	0.35	0.30	1.96	15.20
Lay	1.22	0.89	1.12	0.35	1.77	.....	1.66	0.54	1.44	0.57	2.57	1.40	.....
Leadville (near)	.....	.....	.....	.....	.....	.....	.....	.....	0.78	0.58	0.65	0.85	.....
Leroy	0.73	0.88	0.40	2.43	2.05	2.94	2.56	0.79	0.42	0.11	0.47	0.12	13.90
Leslie	.....	0.30	0.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Longmont	0.32	1.50	1.55	1.55	3.05	3.00	4.31	0.82	0.50	1.27	0.44	0.13	18.44
Longs Peak	.....	.....	.....	.....	.....	2.70	4.61	1.52	1.10	2.60	.....	0.17	.....
Loveland	0.28	1.36	0.73	1.37	2.55	1.45	5.69	0.35	0.66	0.96	0.57	0.20	16.17
Manhattan	0.70	1.43	2.60	1.95	3.71	1.30	3.84	1.80	0.80	0.80	.....	.....	.....
Meeker	1.66	1.07	1.22	0.98	1.79	1.50	2.13	1.88	0.72	1.48	1.56	0.75	16.74
Millbrook	.....	.....	.....	.....	.....	.....	3.05	2.23	0.15	2.01	1.01	1.05	.....
Minneapolis	0.85	0.55	0.20	0.77	1.89	2.98	8.56	1.48	T.	0.28	0.60	0.90	19.06
Montevista	0.19	0.26	T.	T.	1.67	0.76	2.54	2.78	T.	1.17	0.23	0.02	9.62
Moraine	0.42	1.60	1.40	1.74	4.63	2.53	3.66	2.86	0.84	2.30	0.35	0.04	22.37
North Pander Canyon	.....	.....	.....	.....	.....	.....	.....	1.02	.....	.....	.....	.....	.....
Ouray	6.85	2.52	2.75	0.84	4.09	1.45	2.33	3.30	0.92	0.61	4.70	2.40	32.76
Pagoda	3.00	1.65	2.00	1.15	2.15	2.40	1.50	1.20	0.97	1.25	1.95	1.35	20.57
Paonia	2.60	0.60	0.35	0.05	0.05	0.90	1.70	1.27	.....	0.90	1.51	0.65	.....
Parachute	1.65	0.20	1.40	0.75	0.31	0.57	1.58	0.45	0.89	0.71	2.28	0.55	11.34
Pinkhamton	1.40	0.65	2.40	1.59	1.73	1.67	1.00	1.58	0.41	0.67	1.65	0.70	15.45
*Pueblo	0.44	0.89	0.59	0.91	2.45	2.09	6.72	1.11	0.03	1.46	0.32	0.46	17.47
Rangely	1.18	1.03	0.80	1.00	0.25	0.47	1.89	0.32	1.30	0.87	1.10	0.60	10.31
Redcliff	3.35	1.65	.....	2.10	0.33	2.55	1.90	1.95	2.20	0.20	0.15	.....	.....
Rico	7.20	3.63	1.81	0.33	1.76	1.58	2.97	3.60	1.33	0.20	.....	2.75	.....
Rockyford	0.26	0.65	0.08	0.35	1.90	0.52	4.87	2.54	T.	0.85	0.20	0.57	12.79
Ruby	14.44	8.20	8.32	3.42	5.64	5.61	3.87	2.69	1.32	2.20	10.73	5.89	72.33
Saguache	0.30	0.80	T.	0.00	1.28	2.50	3.15	3.13	0.32	1.93	0.60	0.60	14.01
St. Cloud	0.22	1.30	2.20	1.79	3.50	2.94	3.84	2.84	0.60	2.55	0.25	0.50	22.53
San Juan	2.49	0.72	0.56	0.10	1.68	0.79	3.77	2.72	0.97	1.67	.....	.....	.....
San Luis	0.81	0.76	0.27	0.00	2.65	0.95	3.69	1.88	0.28	1.63	1.03	1.81	15.76
Santa Clara	0.70	3.00	2.40	1.80	4.98	3.45	5.90	4.48	0.12	[1]1.30	0.40	2.90	31.43
Seibert	0.32	1.28	0.36	1.62	2.94	1.28	5.59	0.51	0.22	0.13	0.28	T.	14.53
Smoky Hill Mine	0.60	1.90	2.90	2.11	5.31	3.64	4.54	2.00	1.11	2.60	0.50	T.	27.21
Springfield	0.42	0.31	1.75	1.05	3.63	3.07	7.43	2.76	.....	.....	.....	.....	.....
Stamford	1.40	1.45	1.15	1.40	5.70	3.90	6.50	4.80	T.	2.60	1.80	1.85	32.55
Steamboat Spring	.....	.....	.....	0.80	2.60	5.00	0.75	.....	.....	.....	.....	.....	.....
Sterling	.....	.....	.....	0.28	1.14	.....	0.79	0.35	0.20	.....	.....	.....	.....
Sulphur Springs	.....	.....	0.65	0.51	2.17	1.93	.....	.....	.....	.....	.....	.....	.....
Surface Creek	2.90	1.10	0.80	T.	0.45	1.33	1.28	2.12	1.27	1.45	1.93	0.55	15.18
Thon	0.04	0.39	0.65	0.56	2.54	4.21	3.71	0.42	0.06	0.07	0.50	0.20	13.35
T. S. Ranch	1.50	0.83	0.60	0.20	0.51	0.81	1.73	1.40	1.00	1.20	1.35	0.45	11.38
Twinlakes	1.60	1.88	0.03	0.33	2.15	T.	.....	.....	0.90	1.04	0.82	2.50	.....
Vernon	1.53	1.53	0.15	2.10	3.12	2.03	3.90	0.84	.....	.....	.....	.....	.....
Vilas	0.80	0.42	0.10	1.05	2.10	2.30	5.49	3.23	0.01	0.26	0.46	0.50	16.72
Wallet	1.00	.....	0.20	2.10	2.84	3.91	7.36	0.15	0.40	.....	1.65	0.30	.....
Yuma	1.20	1.70	0.50	1.10	2.76	2.73	3.22	1.77	0.55	0.10	0.60	0.10	16.33
Connecticut.													
Bridgeport	5.65	1.10	3.04	3.32	1.33	2.37	4.86	7.36	1.69	4.41	4.12	4.45	41.70
Canton	3.73	0.66	2.39	3.50	1.79	3.53	3.94	6.02	3.13	6.15	3.96	4.10	42.94
Colchester	4.79	0.51	2.13	6.86	1.89	2.02	4.11	3.63	1.57	6.77	6.50	3.58	44.36
Falls Village	3.08	1.36	2.44	4.15	2.49	2.77	3.00	2.77	2.24	5.38	3.80	4.67	38.15
Greenfield Hill	5.93	1.06	2.45	2.60	2.02	1.94	4.62	4.95	2.44	3.58	4.99	2.67	38.35
Hartford	4.84	1.78	2.39	4.18	2.13	2.10	3.98	7.57	3.73	5.12	7.40	3.93	48.35
Lake Konomoc	5.38	0.46	2.99	4.84	3.01	2.10	6.78	3.02	2.19	4.53	8.31	2.21	45.82
Middletown	5.66	0.99	2.59	4.14	2.12	4.23	3.98	4.57	2.39	4.04	7.36	3.89	45.96
*New Haven	5.13	0.99	2.36	3.11	1.70	2.41	3.77	3.91	2.51	3.32	4.84	1.91	35.96
*New London	5.54	0.43	4.12	4.51	4.32	2.16	5.83	2.41	1.68	4.71	3.75	1.40	40.86
North Franklin	.....	.....	.....	.....	2.75	2.80	5.04	2.76	3.01	5.25	.....	.....	.....
North Groesvenor Dale	4.45	0.65	3.18	4.66	2.55	4.74	3.43	3.60	3.40	9.12	9.69	5.62	55.09
Norwalk	4.35	0.49	2.45	2.93	1.79	2.00	4.68	4.62	1.99	3.96	4.07	2.75	36.08

[1] W. H. Johnston. [2] S. S. Worley.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Connecticut—Continued.													
Southington	4.33	1.13	2.13	3.70	2.15	3.20	3.20	5.43	3.47	4.05	6.93	3.17	42.89
South Manchester	4.42	0.73	2.89	3.51	1.87	3.57	3.91	5.78	2.42	6.47	5.63	3.28	44.48
Storrs	5.78	0.63	2.62	4.27	2.16	1.78	4.13	3.48	2.97	6.74	6.97	4.12	45.65
Voluntown	5.61	1.02	3.37	4.96	3.52	3.41	6.37	4.46	1.76	6.14	7.93	3.36	51.91
Wallingford	5.59	1.06	3.61	4.07	1.52	6.08	4.50	4.72	2.65	5.83	5.39	3.13	48.15
Waterbury	4.86	1.92	2.58	3.85	1.96	2.82	3.73	7.29	2.16	5.19	5.22	3.83	45.41
West Simsbury	3.96	1.19	2.30	3.57	1.56	3.73	3.68	5.44	2.68	5.66	4.12	3.96	41.85
Windsor	4.68	1.10	2.76	2.95	1.62	1.23	5.29	6.05	4.11	5.22	5.38	2.83	43.22
Delaware.													
Dover	5.47	1.55	3.79	5.40	2.75	3.88	1.94	1.73	2.23	3.14	2.26	1.82	35.96
Milford	4.85	1.60	2.69	5.38	4.48	2.11	3.17	3.65	2.96	2.42	1.49	1.74	36.54
Millsboro	5.29	1.93	4.66	5.71	5.52	2.23	3.73	2.37	1.89	3.06	2.66	2.89	41.94
Newark	4.85	1.08	3.09	4.80	2.72	5.51	2.73	1.56	0.88	2.53	1.06	3.60	34.41
Seaford	4.63	1.63	3.84	6.17	4.27	2.67	3.89	4.76	2.62	2.76	2.60	2.14	41.98
Wilmington	5.47	1.95	3.61	4.89	2.15	4.19	2.70	2.31	0.93	2.74	1.57	2.16	34.67
District of Columbia.													
Distributing Reservoir	3.12	.....	2.63	5.19	2.43	3.20	4.01	0.27	1.27	0.72	2.13	2.15	.....
Receiving reservoir	4.32	.....	2.50	5.32	2.78	5.50	3.68	0.88	1.58	0.72	2.05	2.39	.....
*Washington	4.42	1.10	2.59	6.26	3.09	4.34	4.50	1.26	1.11	1.94	1.26	2.38	34.25
West Washington	4.26	1.31	2.73	6.09	3.05	5.07	4.86	1.40	1.25	1.84	1.39	2.36	35.61
Florida.													
Amelia	4.50	3.72	3.43	4.73	2.99	5.28	4.74	1.08	1.77	0.88	3.19	1.58	37.89
Archer	5.05	3.34	2.33	2.96	5.22	2.77	9.84	4.98	4.36	1.02	4.00	1.78	47.65
Avonpark	1.28	4.74	1.70	4.93	6.97	9.83	5.81	5.76	3.88	4.83	3.31	1.07	54.11
Bartow	.....	.....	.....	.....	.....	.....	.....	8.41	4.25	2.26	2.42	1.21	.....
Brooksville	4.37	4.86	1.98	6.14	2.39	5.44	12.33	9.84	4.85	1.93	2.23	0.89	57.25
Clermont	4.07	3.06	1.28	5.14	3.73	3.23	7.73	5.36	2.40	2.97	1.53	1.34	41.84
Earnestville	.....	.....	.....	6.32	6.28	3.14	12.94	7.55	3.73	3.71	2.18	1.60	.....
Eustis	3.38	2.85	1.94	3.41	4.97	3.79	7.26	8.09	6.74	1.05	2.10	1.19	46.77
Federal Point	2.51	3.74	1.57	3.44	4.03	7.51	7.66	3.61	6.14	1.22	3.60	1.52	46.55
Fort Meade	2.17	3.66	1.81	7.64	5.99	5.41	4.63	7.05	2.01	2.98	2.85	1.07	47.27
Frostproof	.....	.....	.....	.....	.....	.....	7.09	7.13	3.50	5.35	4.27	0.82	.....
*Gainesville	.....	.....	.....	.....	4.26	2.95	10.28	8.34	4.34	0.64	.....	.....	.....
Grasmere	4.02	2.62	1.54	6.39	4.33	5.31	3.47	7.09	4.34	2.93	1.85	1.11	45.00
Greencove Springs	5.43	2.88	2.49	5.22	3.12	6.03	9.45	5.70	5.75	0.86	3.58	1.28	51.79
Homeland	1.82	3.96	1.37	6.12	5.20	3.79	4.90	.....	.....	.....	.....	.....	.....
Hypoluxo	1.70	2.84	1.86	5.58	8.54	3.99	3.83	2.01	9.13	24.39	3.86	5.61	73.34
*Jacksonville	4.63	3.61	3.63	4.40	2.26	4.98	11.21	2.54	4.66	0.58	3.12	1.18	46.80
*Jupiter	3.33	2.75	1.59	4.02	6.10	3.85	5.88	3.86	8.99	21.03	4.80	6.27	72.47
*Key West	3.26	2.62	1.34	1.87	1.41	2.92	0.62	4.92	4.41	4.77	0.24	0.81	29.19
Kissimmee	0.70	3.34	1.40	7.82	3.86	1.20	7.30	5.53	7.50	5.40	5.10	0.48	49.63
Lake City	5.86	4.02	3.59	4.27	2.56	5.03	9.13	5.00	1.14	0.40	2.76	1.58	45.34
Lemon City	.....	.....	.....	.....	.....	.....	.....	.....	*3.50	.....	3.00	0.92	.....
Manatee	2.41	5.02	2.49	5.02	3.13	1.59	6.08	8.22	6.23	2.00	1.44	1.13	44.76
Merritts Island	2.26	3.29	1.27	3.83	9.31	7.35	2.27	4.25	4.40	6.59	4.24	1.11	50.17
Moseley Hall	9.26	3.38	7.66	.....	3.74	3.42	13.56	8.48	.....	.....	.....	.....	.....
Mullett Key	1.85	1.85	1.65	3.70	1.15	1.42	5.39	9.62	2.19	1.86	1.26	0.68	32.62
Myers	2.06	5.82	1.41	4.52	3.96	3.68	6.46	9.60	7.79	2.23	0.79	1.76	50.08
New Smyrna	1.44	2.27	2.38	4.45	4.97	5.21	5.36	4.60	.....	3.63	2.79	1.39	.....
Ocala	1.60	2.24	1.12	3.73	4.61	5.28	9.78	8.82	5.44	0.80	3.03	0.69	47.14
Orange City	2.07	0.77	2.64	2.89	5.24	.....	.....	.....	.....	2.14	2.16	0.87	.....
Orange Lake	.....	.....	.....	.....	.....	.....	.....	9.92	5.55	.....	.....	.....	.....
Orangepark	4.43	2.84	2.55	5.47	2.57	4.20	6.73	4.81	4.56	0.61	3.18	0.78	42.73
Orlando	1.29	3.11	1.70	5.15	7.31	3.21	4.36	4.78	4.27	3.78	1.57	1.78	42.31
Oxford	.....	.....	.....	3.43	5.08	3.52	9.11	4.57	6.12	.....	.....	.....	.....
*Pensacola	3.12	2.48	6.69	7.16	6.28	7.08	5.33	7.48	1.41	2.67	1.27	4.33	55.30
St. Francis Barracks	3.00	3.06	0.85	3.95	3.45	3.35	4.03	4.65	3.20	0.76	5.53	0.50	36.33
Tallahassee	6.80	3.22	6.83	3.35	3.68	3.95	8.27	3.09	4.31	1.96	2.21	2.34	50.01
*Tampa	3.40	3.99	2.07	5.38	1.29	4.24	10.63	8.88	4.80	3.04	1.78	1.14	50.64
Tarpon Springs	3.65	3.52	1.05	5.50	2.75	3.26	6.18	9.36	5.98	2.35	2.66	0.74	47.00
*Titusville	0.88	3.61	1.04	4.50	7.10	8.46	4.82	4.06	8.41	5.73	.....	.....	.....
Georgia.													
Adairsville	9.29	3.60	6.10	4.67	3.75	4.08	4.18	4.55	1.00	[4]0.61	[4]1.64	3.25	47.32
*Altapaha	10.77	4.21	5.05	5.85	7.18	3.36	4.81	5.60	3.27	0.58	.....	.....	.....
*Albany	10.40	3.58	4.43	4.16	3.11	4.67	3.80	6.78	2.26	1.69	0.94	2.23	48.05
*Americus	8.44	1.97	7.23	5.05	3.61	2.83	4.91	6.28	0.72	0.59	0.78	3.13	45.54
Athens[1]	7.55	1.84	8.56	6.52	.....	3.53	5.23	7.25	1.25	1.27	2.40	.....	.....
*Athens[2]	6.65	1.86	7.24	6.07	4.80	2.85	4.28	7.41	1.14	1.05	.....	.....	.....
*Atlanta	5.47	2.01	7.55	5.20	3.99	4.87	2.75	8.55	0.21	1.30	1.04	2.98	45.92
*Augusta	6.35	4.02	8.06	5.18	3.34	3.98	4.91	8.45	1.98	0.67	2.01	3.75	52.10
*Bainbridge[2]	.....	.....	.....	.....	4.48	6.20	9.13	4.99	2.64	1.27	.....	.....	.....
*Bainbridge[3]	8.40	3.51	5.21	4.90	4.68	5.91	8.74	5.69	2.53	1.29	.....	.....	.....
Blakely	10.10	3.32	4.30	3.95	1.81	5.83	11.91	9.53	1.05	1.00	0.61	2.83	56.24
Brag	9.43	4.49	4.44	7.46	2.88	3.95	2.95	11.27	2.14	.....	.....	0.93	.....
Brunswick	4.45	2.93	3.52	4.54	4.78	2.78	.....	.....	.....	.....	.....	1.00	.....
*Camak	7.52	2.76	8.44	.....	4.71	2.32	8.34	13.43	1.64	0.87	.....	.....	.....
*Canton	8.87	2.85	7.42	5.54	4.86	4.57	4.38	8.29	1.66	2.07	1.64	3.25	55.40
Clayton	10.49	2.78	6.99	10.40	6.63	2.38	6.91	11.24	0.22	2.41	2.75	5.63	68.83
*Columbus	7.45	2.24	10.60	5.14	2.95	1.85	3.43	3.92	0.38	0.57	.....	.....	.....
*Cordele	.....	.....	.....	.....	1.42	1.75	5.70	9.66	1.02	0.35	.....	.....	.....
Covington	6.47	1.57	9.56	5.87	2.77	2.12	1.94	9.37	0.84	1.59	1.76	3.82	47.68
Dahlonega	10.44	2.76	7.34	6.02	7.98	4.87	2.63	15.38	0.93	2.09	2.20	4.64	67.28
Darien	4.12	3.86	4.82	2.79	.....	.....	.....	.....	.....	.....	.....	.....	.....
Diamond	.....	6.50	7.45	5.61	8.24	5.33	5.55	10.40	2.34	2.18	2.21	5.71	.....
*Dublin	9.60	3.54	7.48	3.71	1.75	3.87	7.13	5.42	0.97	0.42	.....	.....	.....

[1] Prof. L. H. Charbonnier. [2] Cotton region observer. [3] River observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Georgia—Continued.													
*Eastman					4.28	2.32	4.13	5.06	0.76	0.24			
*Elberton	7.09	1.73	7.53	4.82	3.57	3.50	3.72	9.56	1.36	0.68	2.98	3.94	50.48
Fleming	7.05	4.00	5.94	7.00	4.12	3.20		7.24	2.66	1.64	3.63	2.07	
Forsyth	6.05	3.16	6.96	5.81	4.62	4.32	5.96	6.96	1.19	1.60	1.55	4.73	52.91
*Fort Gaines		4.17	7.35		2.24	6.29	3.45	5.83	0.46	1.45	0.73	2.52	
*Gainesville					8.95	3.39	4.63	9.16	1.27	0.40	1.55	4.96	
Gillsville		1.85	5.26	6.58	5.44	3.00	3.79	6.81	1.31	1.23	1.27	3.33	
*Griffin				2.80	6.20	[c]5.85	4.82	10.03	2.41	1.90			
Hawkinsville	9.72	2.20	6.90	2.86	4.30	4.16	6.27	6.41	2.80	2.80			
Hephzibah	7.75	4.40	8.18	5.65	4.56		4.60	5.70	0.09	0.60		3.90	
Lagrange	7.65	2.36	8.44		4.94	2.89	5.14	4.93	0.03	2.45	0.75	3.36	
Leverett		1.41	7.42	4.63	2.11	5.35	2.20	13.02	3.35				
Louisville	8.79	3.34	7.64	3.90	4.05	3.22	3.56	7.32	0.86	0.55	1.03	3.10	47.36
Lumpkin					4.44	2.58	3.65			0.90			
*Macon	7.35	2.00	7.25	4.92	4.72	1.70	5.20	5.82	0.30	0.40			
Marietta	6.23	4.26	5.30	4.75	3.90	4.21	4.19	8.78	0.53	1.54	0.89	3.61	48.19
Marshallville	8.55	2.55	10.33	5.70	4.17	3.40	6.93	4.40	1.30	0.45	0.80	3.75	52.33
Milledgeville					5.38	1.52	2.75	5.93	0.40	1.15	1.22	3.72	
*Millen	9.19	3.75	6.02	2.49	5.52	5.31	5.45	9.38	1.62	0.26	1.79	2.87	53.65
Monticello	6.14	2.46	7.76	3.60	2.80	2.35	4.20	7.50	1.90		2.94	2.60	
Morgan	7.66	3.08	4.17	2.91	2.99	4.77	4.09	7.43	0.99	1.65	1.76	2.64	44.14
*Newnan					5.27	2.85	5.22	4.46	1.13	2.39			
Piscola	11.75	4.05	7.15	5.30	0.51					[d]0.67			
Point Peter	8.10	2.50	8.40	5.30	4.45	4.40	3.00	7.25	2.85	0.85	3.30	4.30	54.70
Poulan	9.83	3.19	5.67	2.80	2.51	4.38	4.84	6.91	1.06	2.33	1.05	2.22	46.79
*Quitman	11.64	3.45		5.62	2.35	5.71	5.73	5.02	2.60	0.12	1.96		
Ramsey	7.43	2.01	5.92	4.00	5.30	4.68	5.51	4.28	0.87	2.34	2.04	3.78	48.16
*Resaca	9.06	2.31	7.07	4.45	3.47	3.63	4.74	7.04	1.56	2.39	1.80	3.30	50.82
*Reynolds	7.75	2.04	10.36	4.40	1.75	3.25	6.49	6.94	1.26	0.80			
*Rome	10.29	2.55	6.39	7.17	5.40	4.07	7.57	5.59	3.49	2.59	1.97	3.80	60.88
*Savannah	5.02	3.78	5.31	4.43	2.20	6.08	9.06	9.68	2.72	1.11	3.74	1.71	54.84
Talbotton	7.64	1.99	8.79	4.79	2.13	3.09	7.53	7.30	0.82	1.24	1.12	4.25	50.69
*Thomasville	10.17	3.86	5.07	4.32	2.22	5.21	5.16	5.34	5.33	0.07	2.68	2.37	51.80
*Toccoa	8.46	2.74	6.37	8.44	7.53	3.98	2.23	8.80	0.70	0.99	2.14	2.87	55.25
*Unionpoint					5.09	8.88	2.82	8.37	1.10	0.50			
*Washington	6.33	2.49	7.17	6.36	3.34	3.35	5.19	7.36	1.57	0.94	2.84	3.47	50.41
*Waycross					3.99	3.87	8.97	7.57	2.18	0.88			
*Waynesboro					3.14	5.66	3.55	11.99	1.27	0.24			
*Westpoint				5.09	3.84	4.23	4.73	6.52	[d]0.40	1.59			
*Whitesburg	7.87	3.06	9.96	6.88	3.85	3.65	4.36	5.90	1.11	1.64			
Idaho.													
American Falls	0.95	0.45	1.72	0.45	1.04	1.09	0.82	0.00	0.52	0.32	0.54	1.60	9.50
Atlanta	4.28	1.00	1.59	0.28	3.70	1.05	1.00	0.12	2.30	0.00	1.29	4.30	20.91
Bannister					0.29	0.42	0.14	0.20	0.42	0.00	1.30		
Birchcreek					0.82	1.06	0.06	0.85	0.40				
Bliss	1.27	0.62	0.36	0.01	1.55	T.	0.44	0.06	0.92	0.00	0.47	1.76	7.46
Boise Barracks	2.48	0.81	T.	0.59	1.80	0.00	0.38	0.12	0.32	0.00	0.71	0.69	7.90
Carriboo						0.54	0.00	0.13	1.90				
Chesterfield	0.77	0.58	0.60	0.49	2.29	0.75	0.36	0.06	0.31	0.05	0.39	0.67	7.32
Corral			1.80	0.00	2.16	0.09	0.37	0.07	1.72	0.00	0.55	3.35	
Dairy					2.02	0.00	0.30	0.05	1.14	0.00	0.84	0.95	
Fort Lemhi				0.62	1.70	1.26	0.67		1.00	0.04	0.54	0.62	
Fort Sherman	7.00	0.78	1.44	1.06	2.93	0.85	0.72	0.02	2.62	0.14	2.60	5.06	25.22
Fraser	2.87	0.76	1.78	1.36	[d]3.57	[d]0.34	1.55	0.27	[f]2.94	0.04		2.50	
Garden Valley	5.90	0.47	1.24										
Gibbonsville	3.15	0.92	0.84	0.44	1.75	1.39	1.26	T.	1.31	0.00			
Grangeville	2.06	0.36	2.79	3.13	4.76	2.09	1.53	1.09	2.29	0.24	1.20	1.94	23.48
Hailey	4.84	0.46	1.80	0.29	1.85	0.10	0.10	0.17	2.70	0.00			
Idaho City	3.23	1.32	1.81	0.31	2.68	T.	0.52	0.17	0.78	0.00	1.02	2.49	14.33
*Idaho Falls	1.22	0.05	1.93	0.39	1.82	1.30	0.16	0.11	0.45	0.06	0.70	1.01	9.20
Kootenai	4.10	0.05	0.35	0.75	2.54	0.88		0.00	2.64	0.00	1.96	2.44	
Lake	4.80	2.20	1.40	0.00	0.34	1.22	0.10		0.20		1.40	3.60	
Lewiston	2.51	0.51	0.56	1.07	2.07	0.06	0.93	0.20	1.39	0.04	1.44	1.22	12.02
Lost River	2.40	T.	0.74	0.00	1.73	0.48	0.52	0.48	0.79	T.	0.24	1.65	9.03
Martin	2.65	0.15	3.10	0.66	2.17	0.50	0.55	0.30	1.25	0.00	0.70	1.16	13.19
Moscow	2.13	0.94	1.16	1.30	2.17	0.40	0.90	0.32	3.33	T.	1.77	1.83	16.25
Murray	5.49	2.20	1.46	*1.11	4.14	1.55	1.46	0.00	4.31	0.32	2.91	4.89	29.84
Nampa	0.59	0.19	0.09	1.03	1.29	0.04	0.31	0.11	0.61	0.00	0.52	0.55	5.33
Oakley	1.19	0.60	T.	0.38	0.67	0.46	0.22	0.78	1.70	T.	0.50	0.20	6.66
Orchard					0.81	0.00	0.32						
Paris	0.97	0.37	0.91	0.85	2.35	1.02	0.80	0.33	1.13	0.14	1.31	0.99	11.17
Payette	2.08	0.30	0.15	0.78	1.79	0.15	0.36	0.19	1.28	0.00	0.15	0.97	8.20
St. Anthony							0.48	0.19	0.80	0.11	0.54		
Salubria	4.14	0.90	0.70	0.86	2.35	[d]0.08	0.36	0.53	2.21	T.	0.90	3.60	16.63
Soldier			1.41	0.03	1.40	0.24	0.45	0.10	1.57	0.00	0.58	2.98	
Swan Valley	1.55	0.39	1.69	0.37	2.44	1.21	0.60	0.07	0.94	0.41	1.12	0.84	11.63
Threecreek	1.27	0.78	0.95	0.63	1.50	0.59	0.10	0.06	0.24				
Warren		0.30	2.82	2.00	3.58	1.54	1.60	1.05	2.70	0.20	1.80	4.02	
Illinois.													
Albion	4.25	0.15	1.45	2.09	1.87	4.67	6.21	2.20	2.95	0.96	5.48	2.81	35.09
Alexander						2.43	6.55	1.99	3.82	0.28	2.78	6.82	
Altamont					1.77	2.34	5.02	2.30	3.82		1.99	4.95	
Anna					2.10		6.52	2.41					
Ashton			0.65	0.42	3.15	3.72	3.74	3.56	1.22	0.77	2.33	2.99	
Atlanta				1.58	1.05	4.12	6.71	3.39	6.33	0.50	3.64	7.77	

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Illinois—Continued.													
Atwood	0.93	1.45	0.72	3.53	.....	[4]3.72	4.25	.....	5.26	0.24	5.04	7.43	.....
Aurora	1.53	0.50	1.14	1.48	3.34	1.66	3.83	4.80	1.17	1.11	5.41	5.89	31.86
*Beardstown	1.45	0.08	0.90	2.90	2.13	2.28	3.89	4.10	3.15	1.15	3.50	5.72	31.25
Bloomington	1.26	0.39	1.68	2.55	1.13	1.75	6.71	5.12	4.28	0.61	3.74	7.62	36.84
Braidwood	1.82	0.67	1.04	1.92	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bushnell	1.62	0.26	0.69	3.54	2.72	1.94	6.28	3.33	6.50	0.71	3.20	.....	.....
*Cairo	3.77	0.39	2.76	2.75	1.48	4.86	5.97	0.71	1.86	0.50	5.27	3.25	33.57
Cambridge	1.55	0.30	1.60	1.08	2.42	1.40	7.40	2.78	2.99	0.75	2.74	3.65	28.66
Carlinville	1.08	1.12	1.60	2.08	1.42	3.16	5.58	2.14	3.43	0.42	2.91	6.75	31.69
Carlyle	2.30	1.06	1.97	2.06	3.85	1.90	10.42	4.19	2.46	0.55	3.64	4.53	38.93
Carrollton	.....	0.59	1.88	2.61	2.01	.....	.....	3.25	3.97	0.52	2.27	6.70	.....
Catlin	.....	.....	.....	.....	1.33	2.14	3.65	2.42	3.29	0.49	2.33	5.13	.....
Cazenovia	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.74	3.76	6.25	.....
*Chicago	2.15	1.60	1.32	0.86	1.99	1.79	2.42	6.49	0.89	0.51	5.60	6.76	32.38
Chemung	1.47	0.95	2.18	2.52	4.96	2.11	2.91	3.06	4.74	0.66	2.10	2.59	30.25
*Chester	3.58	0.70	3.51	2.23	2.07	3.99	5.93	2.87	3.38	0.41	4.38	4.72	37.77
Cisne	.....	.....	.....	.....	.....	.....	4.51	1.78	2.86	.....	3.97	3.64	.....
Clearcreek	1.00	0.20	0.86	1.56	1.53	1.39	9.66	2.42	1.46	1.24	4.31	5.16	30.79
Coatesburg	.....	.....	.....	.....	.....	.....	5.88	4.90	2.29	0.34	3.36	3.68	.....
Cordova	1.89	0.34	1.28	0.39	2.25	2.62	5.12	2.08	3.03	0.70	2.75	2.33	24.78
Decatur	1.19	0.91	1.18	2.75	1.07	4.40	3.42	1.35	4.47	0.55	3.12	6.47	30.91
Dixon	1.22	0.43	0.83	1.17	4.46	1.62	4.59	2.83	1.81	0.82	2.50	2.00	24.28
Duquoin	.....	0.20	3.02	1.99	2.25	2.63	5.26	2.20	1.45	0.89	5.57	5.69	.....
East Peoria	1.68	0.10	1.11	2.45	1.13	1.31	8.15	2.38	6.19	0.81	4.10	4.66	34.07
Effingham	1.05	0.90	1.65	2.95	.....	2.40	1.70	.....	1.10	.....	2.50	5.70	.....
Fort Sheridan	2.61	0.32	0.45	2.50	3.70	2.60	3.30	3.81	4.88	0.41	2.14	.....	.....
Frederick	.....	.....	.....	2.65	1.65	2.70	5.25	5.35	2.90	.....	3.82	5.95	.....
Friendgrove	.....	.....	.....	.....	.....	.....	.....	2.62	2.62	0.26	5.98	2.05	.....
Galva	1.33	0.19	0.35	1.03	2.53	1.57	5.58	2.74	5.17	0.87	2.18	4.20	27.74
Gilman	0.87	T.	0.53	3.03	1.35	1.29	5.09	1.93	3.46	1.17	2.80	7.91	29.43
Glenwood	.....	.....	.....	.....	.....	.....	.....	2.45	1.37	0.74	2.76	5.75	.....
Golconda	3.79	0.38	3.16	2.71	.....	.....	9.03	1.13	4.04	0.77	7.20	3.46	.....
*Grafton	0.38	0.38	1.58	1.30	2.59	2.96	7.51	1.92	2.78	0.53	4.61	7.23	33.77
Greenville	1.93	0.79	2.66	3.19	3.16	2.64	6.97	2.05	3.02	0.77	4.56	5.45	37.19
Griggsville	1.36	0.32	3.15	2.35	2.46	3.94	6.25	2.63	3.51	0.35	2.95	6.21	35.38
Hallidayboro	2.80	1.20	2.79	2.13	1.89	2.98	5.23	3.17	2.91	0.55	4.94	3.56	34.15
Havana	1.36	0.32	1.04	2.68	1.51	1.91	4.89	4.53	4.34	0.41	3.80	6.03	32.82
Herrins Prairie	3.35	0.65	1.20	1.80	1.55	4.75	3.75	2.60	2.00	0.20	6.61	5.70	34.16
Hillsboro	.....	.....	.....	.....	1.72	2.47	6.31	3.24	2.83	0.63	3.28	5.44	.....
Holts	.....	.....	.....	.....	2.35	3.35	4.40	1.90	[4]2.25	.....	.....	.....	.....
Iron	.....	.....	.....	.....	.....	.....	.....	.....	2.12	0.33	7.37	3.40	.....
Joliet	.....	.....	.....	.....	1.95	1.26	4.32	2.96	0.93	0.67	2.90	6.62	.....
Jordans Grove	1.50	0.45	2.53	1.03	3.08	3.84	3.75	2.56	2.65	0.41	4.30	5.45	31.55
Kankakee	1.00	0.19	1.02	2.81	2.64	1.11	2.53	2.61	1.79	1.52	3.02	5.81	26.05
Knoxville	1.85	0.39	1.45	3.61	3.62	1.40	8.81	2.54	6.10	1.00	3.51	5.13	39.41
Lagrange	1.64	0.45	0.85	1.17	2.24	2.00	.....	5.69	1.10	0.77	5.09	6.04	.....
Laharpe	.....	.....	.....	.....	1.40	3.13	4.89	3.24	3.25	0.34	3.40	[5]3.65	.....
Lanark	.....	.....	.....	.....	3.78	1.60	4.28	1.61	1.70	0.86	2.02	1.41	.....
Lexington	1.23	0.21	1.06	3.42	1.23	2.29	9.16	2.89	5.87	0.76	2.80	6.83	37.75
Loami	.....	.....	.....	2.85	2.25	4.36	6.93	2.75	3.50	0.35	3.17	8.00	.....
Louisville	3.46	0.16	1.63	1.84	2.47	5.60	5.20	2.56	2.58	0.46	4.34	3.77	34.07
McLeansboro	.....	.....	.....	2.22	1.99	7.62	7.11	2.03	3.00	0.57	5.57	2.85	.....
Martinsville	2.56	0.95	1.20	3.43	1.10	1.54	4.71	3.83	2.48	0.95	4.75	4.30	31.80
Mascoutah	3.36	1.76	2.19	1.60	3.20	2.10	4.80	1.70	1.90	0.50	3.75	5.75	32.61
Mattoon	0.57	0.71	1.04	2.36	0.73	2.86	3.37	.....	.....	0.60	2.61	3.36	.....
Monmouth	1.42	0.18	0.84	2.54	2.04	2.97	5.50	3.04	4.26	0.78	2.06	4.81	30.44
Morrisonville	.....	.....	.....	.....	.....	.....	.....	1.50	3.25	0.25	3.28	4.68	.....
*Mount Carmel	5.84	0.50	2.61	3.14	2.43	1.83	5.77	1.91	2.96	0.42	5.75	3.55	36.71
Mount Pulaski	1.25	1.14	2.01	1.60	1.32	2.84	4.30	1.47	3.75	0.31	2.67	7.42	30.08
Mount Vernon	.....	.....	.....	.....	2.21	1.94	5.94	3.15	3.13	0.27	4.66	3.80	.....
New Burnside	.....	.....	2.65	2.20	1.98	2.24	5.51	1.26	2.81	0.60	7.03	2.05	.....
Olney [1]	4.25	0.45	1.40	2.15	1.78	3.00	5.85	1.48	2.06	0.13	4.40	3.47	30.42
Olney [2]	4.64	0.45	0.93	4.34	2.15	3.14	6.64	1.95	2.01	0.10	5.00	3.85	35.20
Oregon	1.35	0.95	0.82	1.69	3.35	.....	.....	.....	.....	.....	.....	2.63	.....
Oswego	1.33	0.38	1.35	1.56	3.27	1.64	3.61	5.00	0.59	1.05	4.53	6.10	30.41
*Ottawa	1.22	0.70	0.82	2.02	1.06	1.02	4.79	2.26	1.47	1.16	5.27	5.77	27.56
Palestine	4.37	.....	1.66	3.65	3.43	2.05	7.04	3.10	1.46	0.57	4.85	3.69	.....
Paris	1.71	1.12	0.91	3.87	0.88	2.21	2.95	1.65	2.46	0.28	4.84	3.05	25.93
*Peoria [3]	1.47	0.50	0.67	2.58	1.67	1.40	8.14	2.09	5.61	0.61	4.82	4.31	33.87
Peoria [4]	1.32	0.37	1.02	2.89	1.84	1.67	8.72	2.27	4.92	0.67	4.17	5.86	35.72
Philo	1.08	1.28	1.08	2.38	0.82	2.73	3.01	1.28	3.72	0.85	3.24	4.99	26.46
Plumhill	.....	.....	.....	.....	.....	.....	.....	2.83	2.49	0.40	3.29	4.51	.....
Rantoul	1.34	0.65	0.95	2.55	1.41	3.40	7.47	1.39	5.42	0.47	3.25	6.82	35.12
Reynolds	.....	.....	.....	.....	.....	.....	.....	.....	3.04	0.65	1.02	3.39	.....
Riley	2.09	0.46	1.32	1.81	2.91	1.68	3.43	3.94	2.16	0.41	2.69	3.00	25.90
Rockford	2.27	0.93	2.53	1.51	3.54	1.93	2.53	3.06	2.77	1.32	3.34	2.59	28.32
Rose Hill	.....	.....	.....	.....	.....	.....	7.72	4.68	3.51	0.05	2.87	5.05	.....
Rushville	1.75	0.37	1.03	2.88	3.29	3.88	5.53	4.85	3.44	0.53	4.72	5.90	38.17
St. Charles	.....	.....	.....	.....	2.44	1.80	2.55	4.35	2.02	.....	.....	6.02	.....
St. John	2.07	1.05	2.94	2.12	2.50	2.84	5.07	2.04	2.59	0.83	.....	.....	.....
Scales Mound	.....	.....	.....	.....	.....	.....	.....	2.48	1.10	0.73	1.62	2.82	.....
*Springfield	1.12	1.03	1.61	2.49	2.55	3.49	5.53	2.76	2.80	0.27	3.28	8.08	35.01
Streator	1.55	0.30	1.40	0.41	0.80	.....	6.00	2.60	1.90	1.00	.....	5.89	.....
Sycamore	1.35	0.30	1.03	1.24	2.52	2.20	3.10	3.06	0.75	0.55	3.71	3.38	23.19
Tampico	.....	.....	.....	.....	2.36	3.50	8.28	2.75	5.88	.....	.....	.....	.....
Tiskilwa	.....	.....	.....	.....	2.70	0.70	7.89	2.38	4.44	0.78	3.31	3.89	.....
Tuscola	0.83	0.68	1.09	2.19	0.60	3.60	2.26	1.62	4.63	0.25	2.92	4.66	25.33
Walnut	1.92	0.63	0.86	1.02	2.39	0.92	5.41	3.23	2.71	0.64	2.60	3.55	25.88

[1] V. E. Phillips. [2] C. H. Fahs. [3] River observer. [4] Dr. F. Brendal.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Illinois—Continued.													
Warsaw	.....	.....	1.29	1.63	2.66	3.08	4.29	.....	.....	.....	.....	.....	.....
Wheaton	.....	.....	.....	.....	2.95	1.39	3.47	4.99	1.52	1.16	5.00	5.78	.....
Winnebago	1.42	0.39	1.90	0.70	4.07	1.89	3.89	2.92	2.29	0.80	3.07	2.07	25.41
Zion	1.82	0.29	0.70	0.18	4.64	1.99	4.77	1.79	2.07	0.93	1.82	1.58	22.58
Indiana.													
Angola	2.65	0.74	1.03	1.09	3.17	1.13	2.03	4.20	2.27	1.47	5.56	6.41	31.75
Ashboro	3.08	0.92	0.50	3.59	0.98	2.76	3.43	2.68	1.34	0.54	5.29	3.97	29.08
Bedford	.....	.....	0.49	3.05	1.45	3.30	.....	.....	2.30	0.20	7.15	2.80	.....
Butlerville	7.23	0.64	2.11	1.70	1.94	2.66	2.59	1.79	0.93	0.76	6.89	3.48	32.72
Cambridge City	3.27	0.47	1.35	1.61	1.76	4.81	0.42	0.89	2.65	0.96	6.27	3.95	28.41
Cannelton	4.06	0.60	1.56	2.70	.....	.....	.....	.....	.....	.....	.....	.....	.....
Columbia City	1.92	0.51	0.69	1.03	1.93	1.82	2.15	3.23	1.34	1.29	4.56	5.89	26.36
Columbus	4.06	0.65	1.64	1.60	1.15	3.03	3.26	2.51	2.00	0.51	5.93	3.86	30.20
Connersville	4.00	0.68	0.50	1.79	1.93	4.53	0.24	0.87	1.33	0.57	5.79	3.40	25.68
Degonia Springs	5.01	0.68	3.26	2.76	2.80	2.66	7.86	1.61	2.62	.....	.....	.....	.....
Delphi	2.64	0.90	1.06	1.97	1.06	1.42	2.68	2.69	2.81	0.76	4.30	4.88	27.17
Edwardsville	5.52	0.47	2.40	3.53	1.57	3.91	6.18	2.34	0.64	0.90	7.62	4.21	39.29
Evansville	3.95	0.48	3.31	2.25	2.85	3.03	6.24	1.79	2.41	0.76	9.54	3.91	40.52
Farmland	2.76	1.20	0.74	1.23	1.44	4.69	0.96	3.12	3.83	0.68	5.99	3.74	30.38
Franklin	3.43	1.32	1.07	1.76	0.69	.....	.....	.....	3.31	0.37	5.43	4.06	.....
Hammond	3.00	1.21	1.50	0.51	1.04	0.58	2.46	1.86	0.53	.....	1.77	6.30	.....
Huntingburg	12.50	0.49	1.66	2.67	1.50	3.45	5.51	1.00	2.85	0.35	.....	.....	.....
Huntington	2.69	1.14	1.01	0.85	1.71	1.60	1.66	1.67	1.49	0.91	5.28	4.82	24.83
*Indianapolis	3.12	0.86	1.30	1.96	1.07	1.49	2.87	1.91	7.46	0.83	5.81	4.86	33.54
Jasper	4.49	0.55	2.35	3.49	1.55	3.30	5.57	2.26	2.43	0.65	6.52	3.91	37.07
Jeffersonville	4.18	0.31	2.22	2.75	2.28	4.28	6.68	1.12	0.53	0.81	6.89	4.81	36.86
Kokomo	2.02	0.47	0.93	[d]1.88	0.82	1.78	[c]2.12	1.55	2.44	1.02	4.71	5.68	25.40
Laconia	4.55	0.30	3.95	3.55	.....	.....	6.35	0.88	T.	0.70	5.90	.....	.....
*Lafayette	2.92	0.56	1.39	2.21	0.94	2.04	3.06	1.96	3.60	0.70	3.83	3.86	27.07
*Logansport[1]	2.07	0.56	0.63	2.07	1.66	1.18	3.28	1.94	3.35	1.09	.....	.....	.....
Logansport[2]	2.19	0.82	0.93	1.54	1.44	1.27	2.24	1.37	3.10	1.04	4.12	5.63	25.69
Lyford	.....	.....	.....	4.28	1.79	1.78	3.79	4.56	3.53	0.48	4.34	4.47	.....
Madison	7.37	0.75	2.86	2.52	2.17	2.17	2.73	2.61	0.78	0.87	6.72	3.99	35.54
Marengo	9.80	0.44	4.30	4.65	3.70	6.40	7.60	4.30	2.15	.....	13.01	5.61	.....
Marion	1.84	0.51	2.16	1.71	0.81	1.37	0.80	1.37	2.46	0.91	5.42	3.27	22.63
Mauzy	4.51	0.61	1.56	1.23	0.79	3.78	0.35	1.21	2.02	0.63	6.12	4.03	26.84
*Mount Vernon	3.91	0.15	2.98	2.10	1.51	2.79	9.17	1.58	1.95	0.80	6.75	3.19	36.88
Plymouth	2.14	0.82	0.94	2.30	1.43	1.81	.....	.....	.....	.....	.....	.....	.....
Princeton	4.61	0.60	2.05	2.25	1.70	2.23	7.60	2.10	3.20	0.50	6.25	4.15	37.24
Rockville	1.69	0.63	1.62	3.52	1.28	3.01	3.73	2.22	4.66	0.61	4.45	3.82	31.24
*Rushville	3.92	0.40	1.77	1.61	0.86	4.56	.....	.....	.....	.....	.....	.....	.....
Scottsburg	5.66	0.45	2.64	2.30	2.64	3.05	5.07	3.17	1.57	0.88	5.95	3.37	36.45
Seymour	6.57	1.05	1.25	1.77	3.41	7.16	2.82	1.05	1.40	0.20	6.13	3.71	36.52
Shelbyville	4.15	0.60	1.21	1.72	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Bend	3.77	0.82	0.75	1.06	1.30	1.48	1.59	2.35	1.22	1.49	3.84	8.25	27.92
Sunman	5.65	0.45	1.53	2.37	2.07	2.65	1.36	2.73	0.55	0.58	6.37	3.54	29.85
Syracuse	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.59	4.71	7.35	.....
*Terre Haute	2.26	0.38	1.64	4.37	0.85	2.75	4.20	4.96	2.09	0.63	4.58	3.79	32.50
Topeka	.....	.....	0.48	1.37	2.15	3.36	2.04	.....	1.42	0.12	.....	.....	.....
Valparaiso	1.95	1.30	0.30	1.95	1.91	2.30	4.71	3.32	1.99	0.53	2.55	7.66	30.47
Vevay	5.68	0.80	1.30	0.99	3.19	3.55	1.42	2.70	0.50	0.60	5.20	3.90	29.83
Vincennes	4.58	0.50	1.96	3.63	1.85	1.42	8.27	1.69	2.75	.....	5.22	3.27	.....
Worthington	4.25	0.83	1.07	3.60	0.91	2.93	3.61	2.53	2.16	0.65	6.36	3.83	32.73
Indian Territory.													
*Eufaula	1.20	T.	0.95	0.90	8.40	3.20	6.70	5.70	1.00	0.80	3.75	5.75	38.35
Healdton	0.46	0.15	1.44	2.73	1.63	4.29	7.00	3.60	0.10	2.31	3.62	7.27	34.60
Kemp	1.49	0.18	4.28	1.67	6.68	7.15	11.75	2.59	2.90	1.22	3.83	3.57	47.31
Lehigh	0.92	T.	2.47	2.05	5.20	5.77	9.52	3.64	0.63	T.	3.43	3.40	37.03
Purcell	0.95	T.	0.93	0.85	1.86	5.33	4.08	7.13	0.05	3.15	.....	.....	.....
Tahlequah	2.20	0.10	1.13	1.31	7.00	.....	.....	3.89	.....	2.40	3.93	5.66	.....
*Tulsa	1.20	0.00	1.10	3.05	3.20	5.70	10.30	2.20	1.90	1.60	5.80	7.90	43.95
Vinita	.....	.....	.....	.....	.....	6.26	4.67	7.65	6.00	0.40	5.17	12.70	.....
Wagoner	.....	.....	.....	2.04	.....	.....	.....	.....	.....	.....	.....	.....	.....
Iowa.													
Afton	0.40	0.52	0.76	4.63	3.04	6.58	3.54	6.45	3.06	0.50	1.13	2.00	32.61
Algona	0.49	0.23	0.33	2.31	3.39	4.83	3.18	6.92	3.82	0.45	1.53	0.24	27.72
Alta	0.44	0.22	1.14	3.56	1.40	4.99	1.55	4.44	7.43	0.32	0.88	0.04	26.41
Amana	1.26	0.26	0.58	1.17	4.41	0.98	6.46	2.34	2.71	1.07	1.64	2.52	25.40
Ames[3]	0.09	0.53	0.60	4.08	4.28	4.69	2.70	4.93	3.93	0.47	1.09	1.56	28.95
Ames[4]	0.24	0.34	0.68	3.44	4.41	5.26	2.87	4.93	3.78	0.77	1.28	1.45	29.45
Atlantic	0.10	0.47	0.44	5.16	1.20	5.06	0.92	7.69	4.59	0.30	1.52	0.66	28.11
Atlantic (near)	0.32	0.45	0.44	4.01	1.95	4.16	1.50	6.49	4.27	0.15	.....	0.78	.....
Audubon	0.40	0.70	0.96	4.69	1.71	3.65	1.71	7.57	2.26	0.02	1.45	0.65	25.77
Belknap	.....	0.52	1.05	2.60	2.80	2.15	5.45	5.25	1.91	0.15	1.70	3.26	.....
Belle Plaine	2.08	0.88	0.50	1.44	3.43	2.72	4.27	2.33	2.85	0.93	1.87	2.66	25.96
Bonaparte	1.30	0.33	1.34	2.20	4.37	2.95	5.27	4.48	3.07	0.23	2.19	4.10	31.83
Carroll	0.58	.....	1.75	3.75	1.61	4.48	2.47	4.94	1.73	0.30	1.41	0.80	.....
Cedarfalls	1.25	1.11	0.22	2.30	4.26	2.87	1.86	4.63	3.98	0.50	1.55	0.90	25.43
Cedar Rapids	1.56	0.58	0.80	1.26	2.84	2.23	3.22	1.50	3.54	1.23	1.83	2.99	23.39
Centerville	2.65	0.15	2.60	4.80	3.45	.....	6.51	3.35	1.32	.....	1.91	3.55	.....
Chariton	.....	0.42	0.61	2.95	3.04	5.23	4.33	3.84	3.51	0.10	1.65	2.40	.....
Charles City	1.25	1.01	0.48	0.91	2.50	5.64	1.77	4.95	2.05	0.46	1.96	1.03	25.01
Clarinda	0.59	1.34	0.96	2.54	2.39	8.33	6.44	4.54	0.95	0.09	1.23	0.89	30.79
Clinton	1.89	0.67	1.08	0.28	5.79	4.58	4.89	1.87	3.40	1.94	2.75	2.24	30.38
College Springs	0.40	1.09	1.10	2.74	3.49	7.94	8.64	.....	.....	.....	1.39	0.94	.....

[1] Special rainfall observer. [2] D. E. Pryor. [3] Iowa Agricultural College. [4] Experiment station.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Iowa—Continued.													
Corning	0.30	0.78	0.48	3.59	3.78	8.22	2.71	4.00	1.00	T.	1.78	0.95	27.59
Cresco	0.87	0.50	0.83	1.69	5.20	3.83	4.37	2.52	1.69	0.15	1.60	1.13	24.38
*Davenport	1.27	0.38	1.57	0.32	2.28	1.22	5.16	4.79	4.30	0.81	2.50	2.54	27.14
Decorah	1.45	0.55	0.55	1.16	4.42	3.13	1.07	1.74	3.20	0.00	1.36	1.90	20.53
Delaware	0.72	0.23	0.65	0.95	2.51	3.11	2.70	3.70	3.55	0.85	1.99	2.53	23.49
Denison	.....	.....	.....	4.76	1.93	3.87	1.95	3.45	1.78	0.18	0.65	T.	.....
*Des Moines	1.30	0.60	0.50	3.41	2.86	5.26	3.10	3.57	3.20	0.29	0.85	1.86	26.80
*Dubuque	1.44	0.66	0.99	0.49	2.63	1.05	3.00	1.75	2.06	0.80	2.12	2.75	19.74
Eldora	.....	0.80	1.15	2.95	3.61	4.63	.....	.....	.....	.....	.....	.....	.....
Elkader	1.37	0.57	0.79	0.80	3.88	3.08	1.81	5.93	2.75	0.81	1.77	1.97	25.53
Emmetsburg	0.29	0.10	0.22	2.68	3.37	3.94	1.21	3.94	5.47	0.28	0.68	T.	22.18
Estherville	.....	.....	.....	2.54	1.67	2.19	[c]1.51	3.16	4.72	0.43	0.88	T.	.....
Fairfield	1.08	0.62	1.20	2.38	4.19	2.82	4.60	3.39	2.66	0.38	1.58	3.30	28.20
Fayette	1.42	0.62	0.45	[c]1.64	4.28	3.87	2.67	4.71	3.79	0.78	1.93	1.96	28.12
Forest City	0.15	0.30	1.05	2.28	.....	.....	2.63	5.26	4.46	0.32	1.75	0.35	.....
Fort Madison	0.74	0.47	1.20	3.22	2.23	2.79	5.51	3.15	3.97	0.47	2.82	5.74	32.31
Galva	0.14	0.28	0.91	3.46	2.16	7.03	2.47	5.99	3.92	0.27	0.82	.....	.....
Gardengrove	.....	.....	1.14	3.29	2.18	6.51	4.79	4.78	2.95	T.	1.12	2.10	.....
Glenwood	0.61	.....	0.77	2.93	1.40	6.27	2.26	6.12	1.33	0.12	1.27	0.22	.....
Grand Meadow	1.60	0.59	0.86	0.78	3.54	2.84	1.73	3.93	3.37	0.76	1.60	1.27	22.87
Greenfield	0.57	1.03	1.13	4.65	4.59	4.45	1.85	5.90	5.68	0.14	1.77	1.36	33.12
Grinnell	0.73	0.50	0.38	1.73	5.28	.....	.....	.....	.....	0.79	1.81	2.16	.....
Grundy Center	0.28	0.51	0.38	2.67	4.87	3.75	4.92	5.50	3.84	1.17	1.79	1.38	31.06
Guthrie Center	.....	0.55	0.80	5.88	3.11	3.57	2.64	8.80	5.01	0.39	0.97	0.67	.....
Hampton	0.95	0.57	0.77	2.56	3.70	4.40	3.54	4.73	2.15	0.92	2.17	1.31	27.77
Hawkeye	1.80	0.74	2.12	0.84	3.70	2.83	1.43	6.50	3.83	0.49	1.93	2.08	28.29
Hopeville	0.30	0.25	0.50	3.64	2.98	6.03	3.55	5.39	3.61	0.06	1.15	1.65	29.11
Hopkinton	1.50	0.90	0.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Humboldt	0.10	0.18	0.80	2.72	2.48	4.86	1.96	3.93	2.68	0.80	1.42	0.24	22.17
Independence	0.96	1.00	0.47	1.00	3.45	1.73	1.17	3.12	4.20	0.45	1.40	1.72	20.67
Indianola	1.15	0.20	0.52	2.35	3.64	.....	.....	*4.01	2.17	0.28	1.03	3.55	.....
Iowa City	2.37	0.64	1.25	1.66	4.26	1.10	10.10	1.77	3.43	1.38	1.78	2.84	32.58
Iowa Falls	0.89	0.25	0.67	2.78	3.37	4.15	3.79	5.37	3.39	0.80	1.66	1.27	28.39
Jefferson	.....	.....	0.60	.....	*1.55	5.26	2.00	.....	0.85	.....	.....	.....	.....
*Keokuk	1.44	0.19	1.05	3.38	3.15	2.61	5.46	2.68	2.67	0.37	2.58	4.24	29.82
Keosauqua	1.00	0.02	0.76	2.28	5.05	2.15	5.31	4.29	3.27	T.	1.14	3.02	28.29
Knoxville	1.10	0.60	0.67	2.28	1.76	4.12	3.68	5.33	2.56	0.40	1.43	1.53	25.46
Larrabee	0.25	0.30	1.44	3.73	2.44	6.75	2.41	2.87	5.17	0.24	1.06	0.08	26.74
*Leclaire	1.24	.....	1.35	0.40	1.77	2.42	4.81	2.43	2.89	0.35	1.88	2.36	.....
Lenox	.....	.....	.....	.....	3.80	7.79	3.87	4.16	0.87	0.07	1.57	2.29	.....
Logan	0.40	0.72	0.26	3.70	0.84	5.24	1.68	9.84	1.71	0.00	1.09	0.10	25.58
Madrid	.....	.....	.....	3.18	4.00	4.37	2.38	4.99	4.43	0.54	1.30	1.40	.....
Malvern	.....	.....	.....	.....	1.50	6.84	.....	5.07	1.73	0.18	1.20	0.48	.....
Maple Valley	.....	.....	.....	3.80	1.57	4.26	1.24	5.12	6.97	.....	.....	.....	.....
Marshall	.....	0.28	0.48	1.68	3.86	3.08	.....	3.87	2.77	0.63	1.15	1.76	.....
Mason City	0.51	0.37	0.90	1.61	2.91	3.37	2.01	5.71	3.29	0.53	1.92	0.73	23.86
Maxon	1.15	0.44	0.56	3.77	2.80	3.05	4.33	4.21	2.09	T.	1.59	2.85	26.84
Mechanicsville	1.70	0.42	1.15	0.48	2.93	1.63	3.34	1.47	2.95	1.13	2.30	2.26	21.76
Monticello	0.98	0.43	0.99	0.50	2.82	1.27	2.43	1.46	2.59	1.10	1.53	2.47	18.57
Mooar	0.50	.....	1.27	3.21	3.11	2.92	2.80	3.35	2.10	0.75	3.01	.....	.....
Mountayr	.....	.....	.....	2.28	2.10	9.26	7.21	4.01	1.19	0.11	1.04	1.68	.....
Mount Pleasant	0.25	0.21	1.74	1.90	4.21	3.12	5.58	8.77	1.33	0.37	2.46	3.86	28.80
Neola	.....	.....	.....	4.02	1.53	3.88	0.45	6.87	1.16	T.	1.17	0.60	.....
Newton	0.81	0.44	0.33	2.73	5.03	6.45	5.22	3.10	4.32	0.69	1.30	1.98	32.40
*North McGregor	.....	.....	0.22	0.64	2.38	2.13	1.19	2.51	2.37	0.86	1.33	1.70	.....
Ogden	0.32	0.42	0.72	4.13	3.20	5.39	3.48	4.61	2.75	0.78	1.74	1.00	28.54
Osage	0.86	0.73	0.37	1.11	4.19	3.11	2.14	4.17	4.98	0.33	1.95	1.28	25.22
Osceola	0.76	0.39	0.79	2.74	3.54	5.96	.....	.....	3.17	.....	.....	.....	.....
Oskaloosa	0.62	0.27	.....	1.65	2.82	3.41	4.87	3.25	4.09	0.42	1.17	1.96	.....
Ottumwa	1.59	0.22	0.56	3.05	5.54	2.95	5.16	3.48	2.36	0.90	1.94	3.95	31.70
Ovid	0.94	0.53	1.30	3.44	2.46	5.83	3.19	5.06	3.99	0.14	1.91	2.62	31.41
Panama	0.17	0.36	0.89	3.22	0.88	4.12	2.03	10.63	2.67	0.11	1.22	T.	26.24
Primghar	.....	.....	.....	2.99	2.34	5.28	1.76	1.03	3.97	0.24	1.01	0.10	.....
Rock Rapids	1.00	0.02	1.63	3.29	4.81	5.40	2.10	0.41	3.80	0.62	1.06	0.10	24.24
Sac City	0.50	1.00	1.62	5.05	2.60	6.75	1.95	7.89	2.95	0.25	1.00	0.03	31.59
Seymour	0.60	0.70	0.70	4.30	2.48	6.99	3.59	6.26	3.05	0.48	1.55	4.55	35.25
Sibley	0.63	0.32	0.54	2.81	3.39	4.85	1.13	0.67	.....	0.45	0.80	0.15	.....
Sidney	.....	.....	[f]0.67	3.45	3.07	8.38	5.22	5.61	1.29	0.13	1.14	1.49	.....
*Sioux City	0.16	0.33	0.50	3.20	2.15	4.95	2.63	1.54	3.91	0.10	0.80	0.02	20.29
Spencer	.....	0.12	0.28	2.39	2.23	2.79	.....	3.16	5.85	.....	.....	.....	.....
Spirit Lake	0.60	.....	[j]0.85	2.50	1.33	2.27	1.59	1.14	5.50	0.43	0.67	0.05	.....
Sutherland	.....	0.34	1.34	2.80	.....	4.65	2.22	.....	.....	.....	.....	.....	.....
Toledo	1.10	0.27	0.55	1.85	4.13	2.15	2.70	2.58	2.59	0.62	1.37	1.83	21.74
Villisca	0.37	0.91	0.74	3.74	3.44	7.24	5.68	6.38	1.15	0.15	1.55	0.00	32.25
Vinton	1.65	0.66	0.31	1.68	5.09	1.28	2.16	2.24	2.73	0.87	1.11	1.74	21.62
Washington	1.25	1.21	1.11	1.20	3.18	1.65	4.59	3.06	2.40	0.67	1.54	2.61	24.47
Waterloo	.....	0.48	0.41	2.07	4.91	2.22	1.03	4.68	4.01	0.64	1.73	1.52	.....
Waukee	1.01	0.90	0.45	3.91	3.40	3.21	3.46	6.40	3.99	0.24	1.15	.....	.....
Westbend	.....	.....	0.69	2.46	2.84	5.28	3.03	5.57	4.14	0.37	1.70	0.40	.....
Whatcheer	.....	.....	.....	.....	.....	1.10	4.60	2.25	.....	.....	0.45	2.40	.....
Williams	1.10	0.50	0.56	3.00	5.78	4.69	4.62	4.59	3.36	0.86	1.94	.....	.....
Wilton Junction	0.82	0.20	1.49	0.69	3.01	1.66	9.10	2.93	3.08	1.26	2.48	2.28	29.00
Winterset	0.95	0.35	0.63	3.20	2.68	5.67	5.11	6.67	4.06	0.82	0.96	0.85	31.35
Kansas.													
*Abilene	0.60	1.13	1.52	2.78	1.37	5.21	2.70	2.58	0.97	0.75	1.39	0.30	21.30
Achilles	*0.37	.....	0.20	1.00	4.74	2.98	4.91	2.56	2.58	0.65	0.75	0.35	.....
Allison	0.31	1.31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Altoona	0.91	0.27	1.21	1.03	2.85	5.98	5.12	7.04	6.02	0.15	2.98	6.05	39.61
Atchison	0.96	0.56	0.83	2.48	1.77	3.66	7.37	9.88	0.73	0.20	1.71	2.56	32.71
Beloit	0.30	2.60	0.55	0.65	2.32	4.42	8.37	7.22	0.84	1.62	1.02	0.06	29.37

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Kansas—Continued.													
Blaine	0.52	1.49	2.45	1.77	3.14	3.88	3.83	7.52	1.33	0.49	1.58	0.77	28.77
Burlington	0.85	0.40	1.85	1.34	6.66	3.97	2.40	8.41	5.35	0.51	2.75	3.32	37.81
Campbell	.....	.....	.....	.....	.....	.....	[d]1.67	8.46	1.83	0.41	1.29	0.25	.....
Colby	0.34	0.63	0.15	1.13	3.14	4.38	5.87	1.04	0.75	0.35	0.70	0.48	18.96
Coldwater	2.01	1.22	0.40	0.65	0.35	5.89	4.83	5.05	T.	2.00	0.95	0.20	23.55
Collyer	0.17	2.20	0.20	3.40	3.00	9.00	2.50	3.25	T.	1.20	1.25	0.40	26.57
Columbus	1.23	0.13	1.97	0.50	4.10	8.67	11.03	5.54	10.12	0.32	4.19	10.50	58.30
*Concordia	0.54	1.86	0.44	0.68	1.01	3.87	0.96	4.98	0.89	0.70	1.19	0.03	17.15
Coolidge	0.40	0.25	T.	0.40	1.70	4.70	7.28	1.47	0.00	T.	0.40	0.60	17.20
Cunningham	1.06	1.12	0.08	0.60	0.53	4.80	2.70	5.61	0.16	1.98	1.10	0.45	20.19
*Dodge City	0.58	2.26	1.31	0.91	0.97	5.32	4.84	2.42	0.06	1.09	0.34	0.21	20.31
Downs	0.46	2.51	0.35	0.48	1.43	4.97	3.27	6.69	T.	0.69	1.41	0.10	22.36
Dresden	.....	.....	0.20	2.22	3.51	5.13	7.68	2.64	0.46	0.45	1.15	0.35	.....
Elk City	0.90	0.33	1.31	1.02	2.87	4.00	6.70	5.06	4.86	0.05	2.80	6.12	36.02
Ellinwood	1.32	2.27	1.08	0.50	0.81	4.57	2.73	7.08	0.93	1.51	1.33	0.54	24.67
Emporia	0.60	1.10	2.40	0.15	3.85	3.35	2.60	12.45	8.25	0.15	2.65	4.25	41.80
Englewood	*0.40	1.77	0.36	0.20	0.78	5.83	4.11	3.61	0.47	1.83	0.71	0.02	20.09
Eureka	.....	.....	.....	.....	1.10	2.59	2.04	7.74	5.79	0.40	1.87	1.32	.....
Eureka Ranch	0.95	1.42	0.10	2.48	1.47	3.15	3.28	2.10	0.67	0.97	1.02	0.32	17.93
Fort Riley	0.41	1.18	1.39	1.41	3.64	4.16	5.22	7.13	3.80	0.50	1.48	0.42	30.74
Fort Scott	.....	0.51	2.37	1.14	4.18	8.85	12.17	7.14	3.41	0.45	3.83	8.03	.....
Frankfort	0.15	1.20	0.05	1.94	2.47	4.60	3.09	9.33	1.91	0.20	1.60	2.99	29.53
Garden City	0.33	1.90	0.02	0.50	2.12	5.53	6.93	0.62	0.35	1.06	0.55	.....	.....
Garfield	0.22	3.15	0.90	0.92	0.52	6.12	2.21	2.83	0.50	1.57	0.55	0.37	.....
Gibson	0.25	1.30	T.	2.29	2.93	6.11	5.98	2.75	0.35	1.07	0.84	.....	.....
Girard	1.14	0.33	1.61	1.09	4.30	5.33	5.73	6.34	8.18	0.27	3.32	7.55	45.19
Goodland	.....	.....	.....	.....	.....	.....	5.51	0.51	1.16	0.40	0.91	0.25	.....
Gove	0.25	1.47	0.20	2.05	2.74	6.41	6.14	1.78	0.31	0.70	0.84	0.45	23.34
Grainfield	0.20	1.08	0.15	5.15	5.00	4.00	4.50	T.	0.00	0.40	0.20	0.35	21.03
Grenola	0.60	0.25	1.00	1.15	1.55	7.25	4.20	5.85	1.60	0.30	1.70	3.35	28.80
Halstead	0.37	1.51	0.35	1.05	1.57	6.52	6.00	7.38	1.05	1.32	0.87	1.03	27.01
Haviland	.....	.....	.....	0.73	0.39	5.21	3.45	2.49	.....	.....	.....	.....	.....
Hays	0.30	.....	0.10	1.20	0.22	0.80	2.59	4.40	0.26	0.70	0.05	0.07	.....
Horton	0.25	0.88	0.84	2.16	3.10	3.81	2.82	8.37	2.51	0.18	0.66	1.21	26.79
Hutchinson	0.57	1.47	0.98	1.18	0.70	6.76	8.55	5.17	0.86	1.66	1.03	0.56	29.49
Independence	0.74	0.25	0.87	1.12	1.44	4.46	3.51	5.53	6.04	0.29	2.34	8.20	34.79
Ionia	0.60	2.42	0.20	1.20	2.20	4.45	5.87	6.33	0.84	1.32	2.65	0.05	27.63
Jaqua	0.55	0.65	0.40	2.21	2.46	6.96	5.90	.....	.....	T.	1.16	0.10	.....
Johnson	0.43	0.76	0.15	0.25	1.99	2.73	7.60	.....	.....	.....	.....	.....	.....
Lakin	0.40	1.45	0.05	1.92	2.19	.....	.....	.....	.....	.....	.....	.....	.....
Lawrence	0.83	0.67	1.47	0.74	3.66	5.93	10.06	12.30	5.91	0.31	1.90	3.38	47.16
Lebo	0.72	0.61	2.54	0.49	3.31	2.41	4.35	8.83	8.29	0.38	3.09	3.95	38.97
Leoti	1.00	.....	.....	.....	2.10	8.75	4.66	.....	.....	.....	.....	.....	.....
Macksville	0.20	2.40	1.55	0.97	1.96	6.23	3.26	4.20	0.85	2.15	1.45	T.	25.22
McPherson	0.30	1.54	2.02	0.47	4.00	5.79	8.63	6.88	1.14	1.17	0.75	2.11	34.80
Manhattan [1]	0.69	1.39	1.20	1.46	3.02	5.43	6.51	10.74	1.02	0.53	1.17	0.59	33.75
Manhattan [2]	0.57	1.14	1.09	1.69	2.98	6.90	6.50	10.73	1.38	0.52	1.36	.....	.....
Marion	.....	1.80	1.12	2.91	0.81	.....	.....	5.68	0.77	0.84	0.75	0.95	.....
Meade	.....	.....	.....	0.44	1.03	3.25	6.48	0.35	0.13	1.37	1.33	0.04	.....
Medicine Lodge	0.79	.....	0.21	1.24	1.40	5.55	4.31	3.51	0.25	1.60	1.21	0.61	.....
Minneapolis	0.35	1.84	0.75	1.49	1.13	3.86	3.35	4.20	0.99	0.99	1.04	0.10	20.09
Morland	0.46	1.60	0.32	3.11	6.10	5.47	5.40	3.65	0.60	0.60	1.20	0.80	29.31
Morton	0.65	0.55	0.05	0.55	1.31	5.02	12.31	1.34	0.00	0.41	0.56	0.65	23.40
Mount Hope	0.50	1.99	0.83	0.82	1.80	7.18	4.25	7.79	0.51	1.46	1.05	1.02	29.20
Ness City	.....	1.42	0.14	1.73	1.85	5.61	6.51	1.95	0.33	.....	0.77	0.25	.....
New England Ranch	0.06	0.89	0.40	2.25	3.83	6.16	4.14	1.59	0.00	0.64	0.76	0.12	20.84
Norton	.....	.....	0.11	3.18	5.16	5.78	2.99	2.46	0.50	.....	.....	.....	.....
Oberlin	0.35	1.65	0.25	2.68	3.79	4.87	6.08	2.45	1.35	0.76	1.65	0.50	26.38
Olathe	0.30	0.83	1.47	1.20	5.10	6.52	6.03	11.45	2.76	.....	2.96	6.60	.....
Oswego	1.61	0.50	2.50	0.67	3.22	6.21	7.55	5.34	5.55	T.	3.45	12.45	49.05
Ottawa	.....	.....	.....	.....	.....	5.91	10.31	9.07	1.52	0.20	1.84	3.92	.....
Phillipsburg	0.95	1.73	T.	2.42	2.36	4.07	4.35	2.62	0.58	0.65	1.32	T.	21.05
Pleasant Dale	0.75	2.74	0.42	1.01	2.03	5.38	2.28	5.58	T.	1.10	0.65	0.31	22.25
Quinter	0.40	2.60	0.25	3.50	3.00	6.00	.....	3.25	T.	.....	.....	.....	.....
Rome	0.56	1.09	0.45	1.51	0.66	4.46	3.51	5.66	0.30	0.71	2.12	1.81	22.84
Russell	.....	.....	.....	.....	.....	.....	1.67	4.89	0.15	1.08	1.10	0.08	.....
Salina	0.50	1.29	1.28	1.68	1.84	4.50	4.90	2.88	0.87	0.97	0.79	0.23	21.73
Scott	.....	.....	.....	.....	.....	.....	6.11	T.	.....	.....	.....	.....	.....
Sedan	0.56	0.33	1.09	0.75	3.01	3.47	6.15	5.33	1.65	0.41	2.86	5.41	31.02
Sharon Springs	0.80	1.00	0.12	1.75	3.75	7.75	6.25	0.25	1.50	0.50	0.45	1.40	25.52
*Topeka	0.57	0.68	1.27	0.93	3.74	2.79	9.23	6.20	2.61	0.44	1.00	1.77	31.23
Tribune	0.60	0.50	0.00	0.49	3.32	3.93	7.52	0.40	0.28	[j]0.66	0.88	0.80	19.38
Ulysses	.....	0.30	0.05	1.24	2.00	3.52	5.48	.....	.....	0.50	0.35	0.40	.....
Wakeeney	.....	2.02	.....	3.40	.....	3.00	.....	.....	.....	.....	.....	.....	.....
Wakefield	0.54	2.19	1.20	2.78	2.80	5.68	7.17	4.85	2.13	0.64	1.60	0.26	31.84
Wallace	0.56	0.62	0.18	0.86	3.58	3.60	6.48	0.00	1.08	0.24	0.42	0.90	18.52
Wamego	0.70	1.60	1.55	3.43	3.05	6.06	5.36	10.07	1.38	0.35	0.62	1.10	35.27
Wellington	0.06	1.39	0.55	1.49	0.49	7.00	2.31	8.04	0.25	0.41	1.59	1.63	25.21
*Wichita	0.57	1.19	1.81	0.40	2.77	4.47	2.74	7.67	0.86	0.81	1.80	1.37	26.46
Winfield	0.49	0.17	0.27	0.75	1.14	3.72	2.65	6.93	0.37	0.46	1.30	2.35	20.90
Winona	0.42	0.75	0.02	1.90	3.25	5.00	8.25	1.37	0.50	0.10	0.37	1.32	22.35
Yates Center	0.74	0.44	1.16	1.38	5.08	2.95	1.86	7.19	7.76	0.32	2.56	3.65	35.09
Kentucky.													
Alpha	8.80	1.19	5.73	3.85	2.85	5.96	7.46	2.41	1.65	3.60	1.73	5.98	51.21
Anchorage	.....	.....	.....	3.10	2.59	4.99	5.61	.....	0.45	0.68	4.71	.....	.....
Blandville	5.11	0.58	3.15	3.00	1.44	7.09	5.61	0.49	2.32	0.34	4.75	3.00	37.38
Bowling Green [3]	5.83	0.65	3.67	3.07	5.70	2.12	9.46	3.52	0.67	1.52	4.61	5.50	46.32

[1] Prof. E. R. Nichols. [2] C. P. Blachly. [3] J. E. Younglove.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Kentucky—Continued.													
*Bowling Green[1]	5.28	0.47	3.54	2.82	5.42	1.96	9.95	3.63	0.67	1.45	4.08	5.17	44.44
Burnside	7.47	1.12	4.39	4.65	4.02	3.46	7.71	3.15	1.11	2.70	2.28	3.38	45.44
Caddo	5.60	.....	2.00	3.20	3.60	2.50	4.30	0.95	0.03	0.80	5.00	5.60	.....
Canton	6.53	0.53	4.26	2.76	2.62	3.73	5.41	2.93	2.23	0.44	5.74	4.22	41.40
Carrollton	3.95	0.50	1.16	1.85	2.64	3.72	2.74	2.29	0.57	0.66	6.27	3.54	29.89
*Catlettsburg	4.91	0.92	4.21	2.45	2.92	1.93	3.97	2.50	1.10	1.31	2.34	3.55	32.11
Cromwell	1.32	.....	2.87	1.94	4.04	4.55	5.73	1.74	T.	.....	.....	.....	.....
Custer	.....	.....	.....	.....	.....	.....	.....	1.40	1.04	0.37	6.50	.....	.....
Earlington	6.70	0.80	4.29	3.78	5.35	4.10	9.14	3.91	2.70	0.96	5.84	3.35	50.86
*Eddyville	5.17	0.36	3.80	2.41	2.02	2.28	.....	.....	.....	.....	.....	.....	.....
Edmonton	5.57	0.84	4.46	3.09	4.46	2.03	5.35	1.79	1.18	2.69	3.42	6.06	40.94
Elizabethtown	.....	0.30	2.41	3.64	2.47	3.39	4.01	1.50	1.57	.....	.....	.....	.....
Eubank	6.27	[c]0.74	4.38	3.86	2.78	3.84	4.31	1.01	.....	.....	.....	.....	.....
Falmouth	5.62	0.58	1.73	2.70	2.18	2.46	4.06	1.13	0.49	0.84	3.34	4.71	29.84
Fords Ferry	4.54	0.30	3.33	3.10	1.72	3.32	7.01	2.00	1.97	0.89	6.54	2.38	37.10
Frankfort	.....	.....	.....	2.45	3.77	5.80	5.22	0.16	T.	1.11	2.73	5.20	.....
Franklin	6.90	0.55	5.81	3.47	3.48	4.11	6.72	2.80	1.68	2.52	3.93	5.14	47.11
Greendale	5.27	0.69	2.90	2.51	3.07	4.23	3.64	2.01	0.57	1.34	2.36	5.64	34.23
*Greensburg	6.73	0.81	4.39	3.32	2.18	5.10	4.85	2.38	0.25	2.06	3.73	4.92	40.72
Harrodsburg	.....	.....	.....	4.30	6.62	.....	.....	.....	.....	.....	.....	.....	.....
Harrods Creek	.....	.....	[c]1.80	2.67	1.93	4.60	7.12	1.28	0.40	0.79	7.50	4.25	.....
Henderson	5.34	0.08	3.19	1.67	2.16	9.99	8.85	2.32	1.26	1.06	9.04	.....	.....
Hendricks	5.77	1.50	2.00	4.50	3.85	1.75	.....	2.50	0.50	.....	.....	.....	.....
Herbert	2.16	0.41	2.89	2.79	3.42	5.27	.....	.....	.....	.....	.....	.....	.....
*Lexington	5.60	0.52	2.79	3.17	4.05	2.93	5.07	1.56	0.33	1.28	2.52	5.50	[e]35.32
Lola	.....	.....	.....	.....	.....	.....	.....	2.27	2.07	.....	6.07	3.07	.....
Louisa	6.61	1.09	3.87	2.95	4.28	1.85	6.83	2.78	1.35	1.21	1.77	3.23	37.82
*Louisville	4.54	0.64	2.10	3.10	2.88	4.94	5.68	1.35	0.41	0.90	7.01	5.31	38.86
Marrowbone	6.19	0.42	4.45	4.51	4.76	2.86	6.61	3.05	2.41	2.58	2.39	5.36	45.59
Matlock	5.90	0.72	4.15	.....	.....	.....	6.31	1.45	.....	.....	.....	.....	.....
Middlesboro	.....	.....	1.26	3.26	4.27	3.12	4.94	.....	.....	.....	.....	.....	.....
Mount Sterling	6.23	1.36	3.86	4.14	3.68	3.30	6.96	3.45	3.18	1.73	2.07	4.44	44.40
Munfordville	5.93	.....	.....	.....	.....	1.23	.....	.....	.....	.....	.....	.....	.....
*Paducah[2]	5.28	1.00	3.22	3.99	1.57	3.49	6.32	2.29	2.54	1.04	7.01	3.36	41.11
Paducah[3]	5.11	0.28	3.30	4.07	1.47	4.02	5.27	1.95	2.38	0.88	6.16	2.94	37.83
Pleasure Ridge Park	4.02	0.67	2.51	3.83	2.53	6.04	7.13	2.07	0.60	0.65	6.72	5.08	41.85
Princeton	.....	.....	2.43	2.98	[f]1.69	5.40	4.36	1.67	0.00	0.40	4.71	.....	.....
Pryorsburg	.....	.....	.....	.....	.....	5.83	5.75	3.67	.....	.....	.....	.....	.....
Richmond	2.30	.....	1.85	2.30	.....	.....	.....	.....	.....	0.32	2.00	3.05	.....
Russellville	5.78	0.38	3.88	3.61	5.22	2.05	8.91	5.07	2.48	1.95	5.15	6.68	51.16
Sandyhook	5.14	[d]0.64	.....	3.18	3.56	2.71	6.22	2.85	1.72	1.50	0.90	2.35	.....
Shelby City	6.86	0.80	3.74	3.57	3.52	3.32	3.71	1.77	0.50	1.68	.....	4.53	.....
Shelbyville	4.41	0.66	2.11	2.41	3.16	4.49	4.51	1.57	0.19	1.18	3.79	4.50	32.98
Southfork	7.75	1.50	3.38	4.55	2.71	1.93	5.67	1.77	1.11	2.18	1.52	3.56	37.63
Springfield	8.30	0.95	3.62	4.24	[e]2.58	[d]2.22	5.57	1.41	.....	1.00	3.10	4.76	.....
*Williamsburg	.....	.....	4.37	3.41	4.95	2.83	6.67	5.70	4.65	3.10	2.35	2.28	.....
Louisiana.													
Abbeville	3.15	5.15	3.51	1.75	4.60	4.87	11.53	4.46	2.55	5.01	5.35	4.80	56.73
*Alexandria	4.47	2.41	7.68	3.70	2.57	5.28	8.52	4.89	2.30	1.74	4.50	5.44	53.50
*Amite	6.42	5.23	8.38	3.58	8.39	5.89	7.94	4.45	1.49	2.67	1.64	7.14	63.22
Ashwood	.....	.....	.....	.....	.....	.....	5.01	7.50	1.36	1.43	3.08	.....	.....
Bastrop	5.20	1.06	7.76	1.34	4.08	7.80	2.29	6.20	0.56	1.24	3.86	6.00	47.39
*Baton Rouge	3.73	5.79	9.14	2.80	4.11	3.45	2.65	3.35	1.00	4.93	.....	5.62	.....
Calhoun	4.89	1.26	4.07	1.86	4.94	13.15	3.55	4.69	1.07	1.65	4.23	2.99	48.35
Cameron	1.80	4.50	4.40	0.90	2.40	.....	4.70	5.60	2.60	5.70	10.10	2.05	.....
*Cheneyville	.....	.....	5.46	2.04	4.69	9.09	6.82	7.04	2.87	1.98	2.22	2.33	.....
Clinton	2.57	4.01	5.03	3.31	2.74	7.39	7.78	2.83	0.94	3.37	[e]2.05	6.32	48.34
*Coushatta[2]	2.94	1.39	5.91	3.05	3.93	5.06	6.44	2.45	1.50	5.81	.....	.....	.....
*Coushatta[4]	3.39	1.30	5.13	3.18	4.75	5.28	4.93	2.24	1.46	5.95	5.58	2.67	45.86
*Covington	7.86	5.41	6.97	2.33	4.01	5.40	8.35	8.84	3.31	2.77	1.34	[g]3.60	60.19
Davis	3.15	1.44	7.58	1.05	3.73	5.97	7.88	3.03	1.16	2.40	4.64	4.87	46.90
*Delhi	4.06	1.70	4.93	2.00	3.95	11.07	5.78	6.72	0.09	3.13	3.22	.....	.....
*Donaldsonville	6.83	3.67	5.61	1.57	9.00	5.29	5.67	7.69	1.08	2.89	1.35	5.18	55.83
Elm Hall	.....	.....	.....	.....	.....	.....	.....	5.95	2.02	3.19	3.92	3.20	.....
Emilie	8.35	4.85	6.21	1.22	9.53	8.66	7.41	4.01	4.65	2.27	1.55	5.36	64.07
Farmerville	4.57	1.29	5.41	4.37	4.95	8.62	2.88	5.26	2.76	1.83	5.02	2.99	49.95
*Franklin	5.90	6.90	3.78	5.72	2.42	4.07	11.27	6.30	2.64	4.85	3.59	6.06	63.50
Grand Coteau	3.23	4.15	4.86	1.42	4.16	9.11	7.62	4.27	2.18	6.38	4.84	4.82	57.04
Hammond	5.59	5.69	8.02	3.30	5.91	6.45	5.16	4.21	2.28	2.97	1.44	4.31	55.33
Houma	4.30	5.65	2.97	8.50	7.50	7.30	12.45	.....	1.34	0.94	0.60	[e]2.96	.....
Jeanerette	3.95	6.38	3.72	3.30	3.45	8.77	5.10	7.31	3.40	[e]4.29	4.16	5.69	59.52
*Lafayette	1.88	4.34	4.69	1.49	2.92	9.48	6.59	6.86	4.63	3.64	3.84	6.17	56.48
*Lake Charles	[g]1.50	5.26	3.79	1.35	4.45	11.94	7.88	2.84	1.34	3.36	12.57	3.90	60.18
Lake Providence	.....	2.36	8.53	2.78	2.62	8.12	1.95	6.19	0.15	1.34	2.67	.....	.....
Lawrence	2.67	4.51	5.20	4.73	9.60	8.96	9.50	6.20	6.31	1.75	1.25	5.57	[e]6.25
Liberty Hill	3.63	1.09	5.46	2.27	5.63	10.46	5.61	1.59	3.55	3.18	5.22	3.85	51.54
Maurepas	5.91	5.95	4.82	0.74	6.33	8.76	6.76	7.48	2.43	2.37	1.66	4.73	57.94
*Melville	4.05	6.01	5.00	6.75	5.78	3.93	7.15	3.30	2.45	5.60	5.00	5.40	60.42
*Minden	.....	.....	.....	.....	4.32	8.64	2.76	0.87	[e]0.95	2.79	.....	.....	.....
*Monroe	4.05	0.49	6.61	1.65	4.52	8.25	3.94	6.40	1.26	1.40	5.25	4.47	48.29
*Natchitoches	3.30	1.08	4.15	1.99	7.17	6.36	4.28	2.38	0.54	1.86	4.17	.....	.....
New Iberia	3.10	5.98	3.20	1.55	4.00	9.50	5.75	[e]9.74	.....	4.25	3.30	5.75	.....
*New Orleans	7.19	3.92	3.81	2.58	7.95	9.74	6.07	6.79	1.97	1.21	0.69	4.52	56.44
Oakridge	.....	.....	.....	.....	[h]2.93	13.42	3.07	6.70	[d]0.80	1.11	4.50	4.32	.....
Oberlin	.....	4.40	5.10	3.45	3.40	7.15	6.50	3.90	1.40	3.60	.....	.....	.....
*Opelousas	2.72	4.45	5.82	3.23	4.02	8.48	6.49	5.32	1.47	4.35	4.53	4.70	55.58
Oxford	2.74	1.18	3.60	3.30	5.61	5.09	4.07	0.53	2.60	4.06	5.35	2.43	40.56

[1] M. H. Crump. [2] River observer. [3] William Bornemann. [4] Cotton region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Louisiana—Continued.													
Paincourtville	6.30	5.29	5.28	2.95	5.64	5.93	7.16	8.83	0.39	3.08	2.01	4.56	57.42
Plain Dealing	4.99	1.65	6.12	0.75	6.86	.....	9.36	2.07	1.91	2.25	4.48	3.28	.....
*Port Eads	3.89	4.19	4.52	4.18	10.27	2.15	3.37	9.13	2.06	2.02	0.64	3.61	50.03
*Rayne	2.15	6.11	5.60	1.21	2.33	9.39	7.34	5.96	1.05	3.31	4.73	5.77	54.95
Ruston	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.83	5.44	3.51	.....
*Schriever	5.75	5.62	4.02	2.86	7.93	5.69	11.82	6.31	1.25	1.69	1.98	4.98	59.90
Shellbeach	1.94	4.17	3.52	3.50	2.81	10.98	6.11	4.94	2.65	4.46	3.64	3.99	52.71
*Shreveport	2.26	0.76	4.66	0.24	5.97	5.70	4.33	1.48	0.72	2.50	6.06	1.87	36.55
Southern University	9.45	5.50	2.25	2.50	11.85	12.90	11.15	8.75	2.05	1.80	1.20	5.50	74.90
Sugar Experiment Station	8.58	5.47	3.98	2.53	12.15	11.06	7.62	6.99	2.93	1.45	1.36	5.75	69.87
Sugartown	4.34	3.44	5.17	1.16	6.15	4.93	5.86	4.75	1.48	2.81	4.43	4.94	49.46
Thibodaux	5.01	6.09	4.52	4.16	7.75	5.00	9.85	8.05	0.84	1.67	2.18	5.41	60.53
Toledo	.....	.....	.....	.....	.....	.....	3.08	4.83	0.45	3.82	3.33	.....	.....
Wallace	4.78	5.06	5.48	1.48	11.68	10.44	7.63	4.68	3.49	2.11	1.98	5.09	63.90
West End	9.37	4.30	4.30	2.08	.....	6.92	8.80	5.47	.....	1.32	0.92	4.69	.....
White Sulphur Springs	.....	.....	.....	.....	.....	.....	8.78	3.54	0.87	1.72	3.96	4.15	.....
Maine.													
Bar Harbor	.....	.....	.....	.....	1.59	1.63	1.79	2.64	2.29	1.42	9.73	3.08	.....
Belfast	6.53	1.15	3.06	4.03	2.05	3.19	1.94	1.96	1.43	1.82	7.29	4.63	39.08
Calais	5.68	1.40	[c]2.52	4.23	2.51	1.75	2.75	2.60	1.16	3.66	.....	.....	.....
Cornish	1.78	1.40	2.86	7.81	1.95	3.53	4.18	3.10	1.91	3.29	8.30	5.07	45.18
Easton	2.30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Eastport	2.70	1.93	2.90	2.29	1.29	1.46	3.17	4.83	2.00	1.15	6.41	2.75	32.88
Fairfield	2.23	0.34	1.58	3.50	1.83	1.96	3.08	2.59	1.11	1.58	5.47	3.77	29.04
Farmington	4.05	0.95	1.88	5.67	3.06	3.38	1.05	5.93	1.92	1.99	5.76	6.25	41.87
Flagstaff	.....	.....	.....	.....	.....	.....	.....	3.54	[d]1.49	[d]1.06	.....	3.62	.....
Gardiner	2.50	1.64	2.48	4.83	1.50	2.01	4.55	3.28	1.21	1.82	6.85	4.40	37.07
Houlton	2.55	1.30	.....	3.55	1.30	3.65	2.43	3.10	1.11	1.70	5.78	4.50	.....
Indian Stream	2.31	1.08	1.25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kineo	2.11	1.35	1.22	2.03	2.58	3.26	4.07	4.90	1.45	0.87	5.47	2.99	32.30
Lewiston	3.41	0.63	2.10	5.64	1.85	2.59	2.22	2.54	1.15	2.11	7.21	5.07	36.52
Mayfield	.....	.....	.....	6.21	3.83	3.03	4.44	3.86	2.09	2.25	7.63	5.84	.....
North Bridgton	1.92	1.08	1.73	6.86	2.74	3.49	2.74	2.98	2.41	2.91	6.58	5.79	41.23
Orono	.....	0.83	2.39	3.88	2.13	1.35	2.85	2.14	1.05	1.51	.....	.....	.....
*Portland	2.47	0.94	3.37	5.95	1.59	1.97	3.59	4.72	1.79	1.91	7.18	3.30	38.78
Winslow	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.04	6.52	.....	.....
Maryland.													
Annapolis	.....	.....	.....	6.63	3.41	2.56	.....	.....	.....	.....	1.87	2.74	.....
Bachmans Valley	4.18	0.70	1.93	6.45	2.95	.....	2.77	2.52	5.49	2.23	1.80	3.68	.....
*Baltimore	4.67	0.83	2.94	7.42	3.04	2.83	3.40	2.43	6.01	2.20	1.86	2.84	40.47
Belalton	5.05	.....	2.85	5.95	4.40	4.55	.....	.....	.....	.....	.....	.....	.....
Boettcherville	4.20	1.30	2.60	2.40	2.10	4.90	3.10	1.90	0.50	1.10	0.40	3.70	28.20
Burkittsville	4.34	0.94	2.70	3.46	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cambridge	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.76	2.57	1.65	.....
Charlotte Hall	3.62	1.88	3.28	6.65	4.66	3.99	3.25	1.59	.....	2.56	2.20	1.97	.....
Cherryfields	2.78	1.78	3.55	4.51	4.90	2.38	7.68	2.29	1.12	3.07	2.46	1.99	38.45
Chestertown	4.20	1.35	[a]2.17	6.09	3.42	7.86	3.45	.....	.....	2.75	2.22	2.40	.....
Collegepark	3.79	0.70	2.73	5.84	3.16	5.50	2.27	2.57	1.81	1.89	1.96	2.32	34.54
Cumberland[1]	3.53	0.98	2.45	1.63	1.52	4.42	2.49	1.81	0.15	1.20	0.34	2.51	22.03
Cumberland[2]	3.38	0.93	2.81	1.65	1.82	4.87	2.85	1.69	0.15	1.20	0.43	2.49	24.27
Darlington	5.29	1.61	2.73	6.68	3.29	5.22	4.74	1.49	[d]2.38	2.82	1.39	3.55	41.19
Deerpark	.....	0.90	3.25	3.20	2.75	4.01	3.55	1.31	.....	0.99	0.94	1.50	.....
Denton	3.58	1.05	4.05	4.59	2.83	6.93	2.59	3.14	.....	2.74	2.60	1.49	.....
Easton	4.60	1.98	3.45	.....	3.07	4.13	4.32	3.35	2.49	2.70	2.56	1.72	.....
Ellicott City	.....	.....	.....	7.25	3.94	4.11	0.81	1.72	4.21	1.30	0.82	2.84	.....
Fallston	4.64	1.48	2.85	8.52	4.42	2.50	2.47	2.38	3.89	2.04	1.70	3.33	40.22
Frederick	3.54	1.23	2.49	4.69	3.81	4.77	3.22	1.88	4.87	1.54	1.48	3.61	37.13
Garrison	.....	.....	2.47	9.28	3.98	3.57	3.55	3.15	.....	.....	.....	.....	.....
Glyndon	5.10	.....	.....	7.60	3.17	3.14	1.73	.....	.....	.....	.....	.....	.....
Grantsville	5.42	1.45	3.10	4.18	2.38	4.07	4.68	2.27	1.53	1.22	1.00	2.96	34.16
Great Falls	3.66	0.57	2.86	5.26	3.49	4.89	2.63	1.21	1.74	0.44	2.32	3.06	32.13
Greenspring Furnace	.....	.....	.....	.....	2.55	2.77	2.18	2.22	2.07	1.49	1.54	2.02	.....
Hagerstown	.....	.....	.....	.....	2.69	4.50	2.46	3.41	.....	.....	2.64	2.49	.....
Hancock	[1]1.33	0.97	1.74	1.71	[e]2.02	4.24	3.76	3.02	1.80	1.32	1.63	2.45	25.99
Jewell	5.09	1.17	3.26	6.25	4.31	4.60	3.23	1.51	0.93	2.35	1.64	2.45	36.79
Laplata	6.00	1.47	3.15	6.50	5.40	4.05	2.65	.....	0.50	1.50	0.90	.....	.....
Laurel	.....	.....	.....	.....	3.42	4.66	2.90	1.60	2.70	2.30	1.55	.....	.....
Mardela Springs	4.14	2.02	3.30	6.35	5.23	1.28	6.53	1.31	2.35	[e]3.59	3.51	1.97	41.58
Mount St. Marys College	1.87	.....	1.80	4.09	4.19	4.27	2.98	.....	.....	1.65	1.50	3.24	.....
Oakland	9.89	1.61	5.22	3.58	3.76	4.01	4.02	1.98	0.24	1.51	1.68	3.16	40.66
Oldtown	.....	.....	.....	.....	1.70	3.69	3.09	2.79	.....	.....	.....	.....	.....
Pocomoke City	4.81	1.62	4.43	7.44	4.33	2.53	2.86	1.85	3.17	2.76	2.50	1.96	40.29
Popes Creek	2.60	.....	.....	5.55	3.95	4.80	2.20	0.49	.....	.....	.....	.....	.....
Princess Anne	3.42	2.14	4.28	5.58	3.94	1.12	4.25	2.53	0.92	2.71	2.07	2.00	34.96
Sharpsburg	4.17	1.45	2.56	2.96	2.17	3.81	2.38	1.15	1.01	1.32	1.45	2.33	28.76
Solomons	3.40	1.34	3.29	5.52	4.46	4.48	3.58	2.05	0.76	3.04	2.51	1.74	36.17
Sunnyside	5.48	1.16	6.20	4.69	2.50	5.97	4.21	1.29	0.47	1.61	1.68	2.66	37.92
Upper Marlboro	5.43	1.10	3.50	5.32	4.19	5.83	3.72	1.09	1.28	2.42	1.00	2.36	37.24
Western Port	2.45	0.75	1.10	1.15	0.70	0.75	1.99	1.08	0.54	1.30	0.70	1.91	14.42
Westminster	[b]1.97	1.30	2.75	5.45	3.36	3.53	.....	2.58	5.61	2.40	2.14	3.75	.....
Woodstock	3.85	1.04	1.52	.....	2.03	2.53	.....	1.11	5.54	2.16	0.76	2.98	.....
Massachusetts.													
Amherst[3]	3.24	0.66	2.61	4.47	2.93	3.47	3.38	2.74	4.54	4.94	4.84	3.54	40.56
Amherst[4]	3.85	0.56	2.35	5.50	2.07	.....	.....	.....	.....	.....	.....	.....	.....
Amherst[5]	3.87	1.05	2.71	5.56	2.07	2.76	3.89	3.46	5.04	4.77	5.36	3.94	44.46

[1] E. T. Shriver. [2] Howard Shriver. [3] Miss S. C. Snell. [4] Agricultural Experiment Station. [5] Hatch Experiment Station.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Massachusetts—Continued.													
Andover	4.11	0.95	1.50	[c]3.59	1.23	2.94	2.04	2.37	1.85	5.83	6.28	1.76	34.45
Ashland	4.24	1.34	3.01	5.12	2.10	2.15	4.91	4.06	2.41	10.13	6.47	3.50	49.44
Bedford	3.59	0.97	2.44	4.10	1.42	2.45	2.77	3.18	2.25	7.21	6.64	2.08	39.10
Beverly Farms	4.52	2.18	3.40	4.41	2.72	2.64	4.40	4.30	1.65	9.06	8.24	4.11	51.63
Bluehill (summit)	4.03	1.12	2.93	5.24	2.53	1.85	3.35	2.80	2.95	7.93	8.95	2.51	46.19
Bluehill (valley)	4.13	0.83	3.00	4.99	2.31	1.30	3.21	3.34	2.76	7.61	8.48	2.66	44.62
*Boston	3.79	1.11	2.72	3.65	2.71	1.73	2.98	3.24	1.53	6.19	8.07	2.45	40.17
Boston[1]	3.38	0.54	2.92	4.84	2.68	1.47	3.42	3.28	1.06	9.08	5.20	1.78	39.65
Brockton[2]	3.46	0.70	3.17	4.77	2.51	2.33	4.54	3.81	4.53	5.37	7.54	2.59	45.32
Brockton[3]	3.94	1.05	3.14	5.40	2.66	1.65	5.02	3.08	3.97	6.04	7.56	2.95	46.46
Brockton[4]	3.90	0.84	2.95	5.36	2.49	2.70	4.55	3.75	4.62	6.55	8.09	3.07	48.87
Cambridge[5]	3.85	1.23	2.66	3.58	1.98	2.73	3.35	3.90	2.14	10.00	5.94	2.19	43.55
Cambridge[6]	3.57	1.07	2.70	4.15	2.39	2.76	3.28	4.71	1.55	10.16	6.09	1.90	44.33
Chestnut Hill	3.91	0.88	2.91	4.60	2.58	2.21	3.55	3.91	2.15	9.24	7.69	2.33	45.96
Clinton	3.15	0.60	1.80	3.82	1.08	4.05	1.90	3.15	1.10	9.55	5.45	2.50	38.15
Cohasset	.....	.....	.....	.....	.....	.....	.....	3.90	2.02	8.47	6.18	2.76	.....
Concord	3.25	0.85	2.95	4.41	1.56	2.13	3.70	3.45	2.73	6.80	8.69	2.34	42.26
Dudley	4.57	1.10	2.12	2.06	1.43	2.91	2.40	2.91	1.20	3.50	4.60	2.30	31.10
East Templeton	3.77	1.76	3.39	3.79	0.96	1.72	2.02	1.97	2.25	4.08	4.17	2.97	32.85
Fallriver	3.84	1.02	3.76	4.69	4.27	2.50	3.38	3.55	1.12	5.88	5.30	3.00	42.31
Fiskdale	2.89	0.76	2.17	3.96	1.70	4.03	5.15	4.80	2.70	7.21	4.74	4.01	44.12
Fitchburg[7]	3.32	1.28	2.55	4.73	2.32	3.24	6.26	2.09	2.70	7.10	5.88	3.78	45.25
Fitchburg[8]	3.75	0.92	2.84	4.85	2.11	3.50	2.92	2.16	2.38	7.86	4.53	3.90	41.72
Framingham	3.88	1.45	2.95	5.38	1.94	3.23	5.17	4.00	2.19	11.23	6.78	3.20	51.40
Groton	3.47	0.99	2.79	4.60	3.08	4.76	3.42	2.69	3.17	7.54	6.49	2.56	45.56
Hadley	.....	.....	.....	4.60	1.44	3.29	4.04	3.18	3.98	3.87	6.02	.....	.....
Hingham	3.23	1.20	3.10	4.47	3.50	1.27	4.99	4.93	2.09	7.04	7.11	3.67	46.60
Hobbs Brook	3.51	0.87	2.66	4.40	1.82	4.61	4.68	3.03	2.19	9.87	6.17	1.84	45.65
Hyannis	3.08	1.39	4.23	1.73	3.63	1.05	2.85	3.89	1.19	2.77	4.42	3.75	33.98
Lake Cochituate	3.93	1.70	3.11	5.03	2.03	3.12	5.34	3.96	2.77	9.57	6.32	2.71	49.59
Lawrence	2.26	0.99	2.32	4.94	1.55	2.94	3.21	2.49	1.98	6.10	6.86	2.41	38.05
Leeds	3.38	1.29	2.12	5.12	1.88	4.04	4.40	3.31	3.27	6.71	4.00	4.93	44.45
Leicester	.....	.....	.....	.....	.....	.....	.....	.....	1.48	7.64	2.52	.....	.....
Leominster	3.36	0.87	2.69	4.34	2.16	.....	3.50	1.62	2.55	6.71	6.24	3.84	.....
Long Plain	3.58	0.69	3.67	4.22	4.64	2.56	3.23	2.92	1.40	6.04	4.07	2.88	39.90
Lowell	3.30	1.47	2.66	4.57	1.68	2.63	2.66	2.02	2.23	6.67	8.16	2.68	40.73
Ludlow Center	2.10	1.06	2.14	6.17	2.05	2.85	6.35	2.90	3.75	6.65	5.06	3.83	44.91
Lynn	3.72	1.11	3.90	3.35	3.21	3.17	3.14	4.55	1.27	10.12	5.64	2.39	45.57
Mansfield	5.81	1.30	3.74	6.45	3.76	3.07	3.94	3.06	3.53	8.92	7.49	3.25	54.32
Middleboro	2.99	1.36	3.16	4.95	3.56	2.26	1.88	2.94	1.88	6.14	4.35	3.28	38.75
Milton	3.95	1.08	2.54	4.25	2.15	1.51	3.48	.....	2.35	9.94	5.66	2.55	.....
Monroe	3.94	1.64	2.36	5.96	1.67	3.90	3.66	3.27	3.22	3.49	6.77	5.80	45.68
Monson	2.66	0.95	1.97	4.22	2.46	4.24	3.20	3.45	5.51	7.25	4.87	4.25	45.03
Mount Nonotuck	3.96	1.35	1.51	3.41	2.08	4.24	5.00	3.64	4.06	4.76	4.08	3.42	41.51
Mount Wachusett	.....	.....	.....	.....	2.66	2.94	3.26	1.94	2.93	6.29	5.87	.....	.....
Mystic Lake	3.84	0.88	3.15	4.46	2.71	3.51	4.66	5.31	2.23	10.69	6.50	1.96	49.90
Mystic Station	3.62	0.75	2.85	4.28	2.54	3.14	4.04	5.29	1.53	10.75	5.99	2.17	46.95
*Nantucket	3.91	1.56	4.41	2.52	4.92	1.29	4.06	4.46	1.69	1.91	4.86	2.73	38.32
Natick	4.51	1.34	3.67	8.02	1.88	2.46	3.34	3.44	2.32	8.72	5.93	4.06	49.69
New Bedford[9]	4.04	1.17	4.72	4.22	3.39	3.01	4.91	3.02	1.50	4.29	4.52	2.84	41.63
New Bedford[10]	3.95	0.83	4.49	5.81	4.23	3.54	4.84	2.51	2.26	4.04	4.99	2.63	44.12
North Billerica	2.90	1.00	2.34	3.48	1.62	3.47	1.53	2.83	1.99	7.74	8.99	2.35	40.24
Pittsfield	2.29	1.40	1.85	4.17	2.32	2.35	4.34	2.38	3.62	2.23	4.33	3.83	35.11
Plymouth	3.02	0.87	2.71	4.79	2.73	2.04	3.58	2.05	3.13	6.39	3.95	3.85	39.61
Provincetown	3.68	1.07	3.90	3.08	3.47	.....	.....	.....	.....	.....	.....	.....	.....
Roberts Dam	4.08	1.33	2.84	4.63	2.07	4.11	3.83	4.33	2.23	8.42	7.22	2.58	47.72
Roxbury	3.93	1.27	2.74	4.51	2.74	1.64	.....	2.72	1.92	7.21	10.44	2.25	.....
Salem	3.84	1.23	3.12	3.36	2.80	2.98	3.76	4.96	1.41	9.10	6.67	2.65	45.88
Salisbury	2.76	1.10	2.90	[b]3.61	2.19	1.34	3.51	3.09	1.23	6.07	7.54	2.11	37.45
Somerset	3.93	1.16	3.38	5.37	4.07	2.01	3.41	4.13	1.55	6.51	4.42	3.20	43.14
Springfield Armory	3.69	1.29	2.24	3.93	1.91	3.26	4.56	3.70	3.11	6.20	4.59	2.77	41.25
Taunton[11]	3.89	1.39	3.61	5.47	.....	.....	.....	.....	.....	4.51	7.32	3.64	.....
Taunton[12]	4.24	1.21	3.74	5.55	3.95	2.17	3.56	3.77	2.13	6.61	5.73	3.47	46.13
Taunton[13]	3.96	1.30	3.11	5.15	.....	1.08	2.35	3.55	.....	.....	.....	.....	.....
Turners Falls	3.26	0.51	2.15	2.78	1.83	2.59	4.55	3.17	3.41	2.78	4.41	3.56	35.00
*Vineyard Haven	4.19	0.95	4.58	3.14	4.23	2.51	6.37	3.47	1.15	2.45	5.77	4.71	43.52
Wakefield	4.18	1.12	3.07	4.03	3.17	4.40	4.81	3.67	1.76	7.00	9.71	2.37	49.29
Waltham	4.08	1.29	3.01	4.67	2.03	3.67	4.04	4.92	2.55	11.08	6.17	2.61	50.12
Webster	4.06	0.95	3.20	4.68	2.40	3.47	5.40	3.41	3.62	7.13	8.19	3.75	50.26
Westboro	3.79	1.35	2.39	4.08	2.09	3.16	4.20	4.98	2.13	9.79	6.79	2.60	47.35
Williamstown	1.87	1.70	2.10	3.90	2.10	3.62	2.37	3.25	2.22	3.74	4.12	3.11	34.10
Winchendon	2.90	0.68	2.17	4.34	1.93	2.72	4.58	4.14	3.43	4.19	5.46	3.60	40.14
Winchester	3.23	0.43	2.85	3.81	3.59	3.75	4.03	5.56	1.85	9.70	6.02	2.64	47.56
Winthrop	4.45	1.57	.....	2.87	3.37	1.99	2.13	4.70	2.09	.....	4.74	.....	.....
*Woods Hole	4.00	1.02	3.87	3.20	3.44	2.04	4.42	3.34	1.22	2.90	4.61	3.35	37.41
Worcester[14]	3.19	0.48	2.08	2.69	2.18	.....	.....	.....	.....	.....	.....	.....	.....
Worcester[15]	2.12	1.14	2.67	4.27	2.46	3.44	4.10	5.19	2.39	8.02	8.69	4.03	48.52
Michigan.													
Adrian	2.46	0.48	1.14	1.31	3.25	0.99	0.65	3.51	1.58	1.23	6.02	5.15	27.77
Albion	4.13	2.50	1.35	0.92	2.67	.....	.....	.....	.....	1.21	4.44	8.27	.....
Allegan	3.36	0.84	0.86	1.44	2.32	1.28	0.50	4.57	1.41	0.65	3.46	5.44	26.13
Alma	2.33	0.67	0.96	1.92	1.76	1.03	0.38	3.25	2.00	0.54	4.00	5.57	24.41
*Alpena	2.72	0.51	0.26	2.70	2.32	1.38	0.52	3.10	2.57	0.77	2.15	2.59	21.59
Ann Arbor	1.98	0.28	0.76	0.90	3.52	0.56	2.27	2.57	0.94	0.34	3.42	5.21	22.75

[1] Boston waterworks.
[2] H. H. Goss.
[3] Filter beds, Brockton waterworks.
[4] Pumping station, Brockton waterworks.
[5] Harvard College Observatory.
[6] E. C. Brooks.
[7] Dr. J. Fisher.
[8] Dr. A. P. Mason.
[9] T. R. Rodman.
[10] New Bedford waterworks.
[11] Mrs. Harriet B. Sprague.
[12] Taunton waterworks.
[13] C. H. Wilmarth.
[14] Worcester Academy.
[15] G. W. Swan.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Michigan—Continued.													
Arbela	3.65	0.20	0.57	1.40	2.36	1.28	0.45	4.04	4.56	0.41	4.69	5.46	29.07
Ball Mountain	2.13	0.50	1.02	1.64	3.15	1.74	2.18	3.64	1.58	0.52	3.38	5.28	26.76
Battle Creek	.....	.....	0.87	1.67	2.03	1.25	1.21	3.84	1.29	1.11	3.61	7.17	.....
Benton Harbor	.....	.....	.....	.....	.....	3.60	.....	.....	1.61	0.14	5.30	10.56	.....
Berlin	3.37	0.44	1.51	1.61	3.29	0.80	1.73	3.30	3.16	0.46	4.46	5.66	29.79
Berrien Springs	5.80	1.90	1.55	1.10	2.50	2.50	1.85	3.65	0.15	1.00	3.65	6.08	31.73
Birmingham	2.19	.....	0.97	1.38	3.23	1.62	0.57	2.17	2.57	0.67	2.47	3.34	.....
Boon	3.07	1.44	1.74	1.99	3.76	1.49	0.94	2.20	3.59	[c]1.84	2.82	1.00	25.88
Bronson	2.30	0.95	0.61	1.82	2.07	1.39	.....	.....	.....	1.04	3.10	5.37	.....
Brown City	[b]3.59	.....	0.23	1.29	4.20	.....	.....	.....	.....	.....	.....	.....	.....
Calumet	5.48	0.86	0.48	2.28	4.35	2.70	0.79	2.54	10.36	0.84	1.26	4.88	36.82
Charlevoix	3.15	1.99	0.22	0.75	2.00	1.60	1.00	2.38	9.70	0.50	1.87	1.80	26.96
Cheboygan	2.10	0.92	0.39	2.28	4.39	1.77	1.07	3.00	4.91	1.89	2.43	2.51	27.66
Climax	.....	.....	.....	.....	2.29	0.23	1.04	2.93	.....	0.70	.....	.....	.....
Clinton	2.53	0.33	0.94	1.11	2.65	0.54	1.21	2.15	0.56	0.70	5.01	5.78	23.51
Crystal Falls	.....	.....	0.50	2.55	6.75	.....	.....	.....	.....	.....	.....	.....	.....
*Detroit	2.76	0.22	1.69	1.31	2.61	0.55	3.30	1.97	1.15	0.56	4.19	4.73	25.04
Escanaba	1.99	2.00	.....	0.57	7.73	.....	0.44	3.63	8.73	.....	.....	.....	.....
Fairview	1.96	0.77	0.91	0.90	2.38	0.77	1.88	1.95	0.16	0.62	.....	3.98	.....
Fitchburg	2.94	0.70	1.38	2.04	3.30	1.94	2.87	3.79	1.26	1.09	4.54	6.60	32.45
Flint	1.15	0.11	0.37	1.35	1.91	0.73	1.20	3.36	2.18	0.52	3.59	4.87	21.34
Gladwin	2.85	0.15	1.56	1.90	1.67	1.63	.....	.....	.....	.....	.....	.....	.....
*Grand Haven	3.77	1.07	0.92	1.33	2.55	0.69	1.70	2.49	2.27	0.43	3.47	4.93	25.62
Grand Rapids	4.42	2.03	1.34	[c]1.27	2.57	1.12	1.01	3.24	2.07	0.39	5.40	6.25	31.11
Grape	1.29	0.20	0.80	1.20	2.53	0.78	2.03	1.69	1.12	0.74	3.83	4.50	20.71
Grayling	4.10	1.40	0.40	0.80	2.77	0.90	0.32	2.02	3.50	2.25	2.75	2.40	23.61
Hanover	2.18	1.51	1.05	1.11	2.67	1.74	2.21	2.85	0.77	1.63	3.93	5.95	27.60
Harbor Springs	.....	[f]0.70	.....	0.83	.....	1.73	0.46	1.50	4.42	0.62	2.50	1.20	.....
Harrisville	4.42	0.93	0.82	2.41	2.04	2.07	1.13	4.79	2.88	0.79	2.54	3.90	28.72
Hart	3.80	0.85	1.45	0.90	2.90	1.50	0.40	3.90	2.15	0.25	3.10	5.50	26.70
Hastings	3.03	1.00	1.36	1.48	2.67	0.82	1.84	3.55	1.76	0.80	4.12	5.64	28.07
Hayes	4.23	0.60	0.80	1.25	3.08	1.18	2.15	1.93	2.60	0.80	1.86	2.36	22.84
Hesperia	1.52	.....	1.40	1.47	1.73	1.34	0.33	4.00	2.10	0.13	0.20	.....	.....
Highland Station	2.41	0.45	1.46	1.17	3.52	0.81	.....	.....	.....	.....	3.84	5.95	.....
Howell	2.30	0.56	0.78	1.36	2.98	1.28	0.87	3.29	0.81	0.75	3.96	5.91	24.85
Ivan	3.09	1.35	0.89	1.59	4.23	1.51	0.33	2.27	3.52	2.22	2.36	3.01	26.37
Jeddo	2.61	0.32	0.71	1.81	2.88	0.62	1.93	2.58	5.06	0.49	4.33	4.39	27.73
Kalamazoo	3.44	1.37	0.67	1.28	3.52	1.64	1.09	4.63	2.81	1.13	3.32	6.67	31.57
Lansing	2.66	0.62	1.14	1.12	2.05	1.24	1.72	5.38	0.86	0.87	3.91	5.83	27.40
Lathrop	4.33	0.85	0.20	1.05	6.54	2.80	0.56	2.22	[i]6.25	1.19	2.68	2.34	31.11
Lewiston	1.66	0.61	0.65	2.04	1.88	2.70	0.78	2.35	5.05	1.26	1.95	2.61	23.54
Madison	2.49	0.31	0.91	1.11	2.48	0.70	0.99	2.38	1.26	0.94	4.95	5.39	23.91
*Marquette	5.14	1.31	1.30	1.46	4.88	4.21	1.13	1.70	3.52	2.54	2.83	3.02	33.04
Mayville	3.05	0.44	1.03	1.91	2.03	1.03	2.12	3.79	4.24	0.33	3.76	5.35	29.08
Mottville	1.82	0.48	0.88	1.15	2.35	1.63	2.30	4.56	1.48	0.63	3.78	7.33	28.39
Mount Pleasant	.....	.....	.....	.....	.....	.....	.....	.....	1.88	0.47	4.48	2.48	.....
North Marshall	1.54	0.62	1.06	1.43	1.39	0.35	1.81	4.46	0.86	1.34	4.10	5.53	24.49
Northport	4.10	1.90	0.42	2.95	2.00	2.10	0.30	2.95	4.07	2.15	1.70	2.05	26.69
Old Mission	2.80	1.29	0.78	1.47	3.45	1.70	0.51	3.13	3.05	1.82	1.26	1.97	23.23
Ovid	2.37	0.30	0.91	1.49	2.05	1.02	1.18	3.46	1.70	0.68	4.30	5.74	25.20
Parkville	2.77	1.13	1.09	1.36	1.83	1.41	2.06	4.73	1.00	1.20	3.88	8.22	30.68
Pontiac	.....	.....	.....	1.16	3.78	1.88	2.64	2.75	1.75	0.45	2.32	5.69	.....
*Port Huron	2.69	0.18	1.09	1.45	2.89	0.90	1.15	3.15	3.68	0.85	3.91	4.17	26.11
Rockland	2.50	.....	.....	3.40	4.70	4.40	[d]1.50	2.40	3.45	2.30	1.25	2.30	.....
Romeo	.....	.....	1.20	0.07	2.03	0.84	.....	.....	.....	0.90	2.10	.....	.....
St. Ignace	2.82	1.50	0.34	2.30	2.95	1.42	0.87	2.30	5.53	1.57	1.88	3.22	26.70
St. Johns	2.20	0.42	1.17	1.48	1.92	1.15	2.70	2.50	0.90	0.59	4.76	6.32	26.11
Sandbeach	.....	.....	.....	2.10	2.14	0.96	1.02	3.60	3.43	0.77	2.31	2.87	.....
Saranac	.....	.....	.....	.....	.....	.....	.....	3.83	2.52	0.32	3.75	5.82	.....
*Sault Ste. Marie	3.17	1.76	1.08	2.58	3.17	0.93	1.34	1.34	7.40	3.58	1.51	2.69	30.55
Somerset	.....	.....	.....	.....	.....	.....	.....	.....	0.68	0.74	3.66	5.02	.....
South Haven	.....	.....	.....	.....	.....	.....	.....	.....	1.06	0.47	1.67	7.61	.....
Standish	.....	.....	1.83	1.61	0.62	0.40	.....	2.91	2.64	.....	.....	5.86	.....
Stanton	1.80	0.57	0.59	1.78	1.90	0.48	1.03	3.47	2.56	0.56	3.75	4.55	23.04
Thornville	2.89	0.29	1.13	1.41	3.74	0.88	0.82	4.11	3.11	0.82	3.74	4.74	27.68
Vandalia	3.59	2.15	0.77	1.23	1.61	1.48	0.88	4.05	1.07	1.15	3.49	8.04	29.51
Ypsilanti	2.07	0.54	0.75	1.22	3.07	1.58	2.81	2.27	0.82	0.60	4.93	5.21	25.87
Minnesota.													
Ada	0.45	0.10	0.01	1.60	2.36	5.88	3.40	.....	1.38	0.37	1.31	0.14	.....
Albert Lea	.....	.....	0.72	2.33	4.70	2.71	3.18	3.00	6.39	0.50	1.83	0.35	.....
*Alexandria	1.13	0.62	0.00	2.47	1.80	4.98	2.14	2.09	1.98	0.06	0.84	0.08	18.19
Beardsley	0.99	0.98	T.	2.47	2.40	4.72	2.36	0.98	1.86	0.68	1.98	0.13	19.55
Belleplaine	.....	.....	0.18	1.45	2.50	.....	2.10	3.05	1.50	T.	0.20	T.	.....
Bingham Lake	0.23	0.05	T.	1.83	4.42	.....	.....	.....	7.10	.....	.....	.....	.....
Bird Island	0.37	0.23	0.72	1.28	3.56	2.67	1.38	2.37	4.73	T.	1.45	T.	18.76
Blooming Prairie	0.50	0.35	0.81	1.10	3.55	4.25	2.60	2.50	4.65	0.25	1.65	0.25	21.96
Bonniwell	0.33	0.28	0.51	1.27	4.53	2.84	1.42	2.46	4.72	T.	0.98	T.	19.34
Caledonia	1.05	0.52	0.54	1.03	4.90	4.91	3.14	1.92	3.14	0.55	1.44	1.41	24.55
Cambridge	0.44	0.45	0.61	1.82	4.67	4.04	5.99	2.46	5.44	0.10	1.35	T.	27.37
Camden	0.21	0.20	0.34	2.45	3.47	2.70	2.74	3.06	3.80	0.23	1.32	0.14	20.66
Campbell	0.34	0.52	0.09	1.06	2.04	7.04	2.69	2.71	.....	.....	.....	.....	.....
Carver	.....	.....	.....	.....	2.87	.....	.....	3.06	4.74	.....	0.62	.....	.....
Clearlake	0.54	0.36	0.30	1.24	3.91	2.97	3.07	2.82	4.17	0.07	.....	.....	.....
Clearwater	0.82	0.34	T.	1.77	3.23	1.38	2.38	1.39	2.53	0.00	0.97	.....	.....
Collegeville	0.50	0.09	0.04	1.43	2.28	3.15	1.90	1.60	4.03	T.	0.98	0.01	16.01
Crookston	0.30	0.35	0.30	1.19	1.72	9.66	4.62	3.00	1.25	0.40	1.22	.....	.....
Dawson	0.41	0.64	T.	*1.12	2.63	1.96	1.36	.....	2.81	T.	2.03	0.03	.....
*Duluth	0.75	0.48	0.48	0.73	2.13	4.62	3.03	1.67	5.96	0.09	1.65	0.71	22.30

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Minnesota—Continued.													
Farmington	1.70	0.92	0.93	2.37	3.24	3.07	3.43	1.16	5.71	0.27	1.34	0.40	24.54
*Fergus Falls	0.40	0.39	0.03	2.19	3.10	6.32	4.93	2.32	1.15	0.10	0.74	0.14	21.81
*Fort Ripley	0.69	0.10	0.12	1.13	3.74	7.28	.....	.....	.....	.....	.....	.....	.....
Glenwood	.....	.....	.....	.....	.....	.....	.....	1.28	1.85	0.07	0.99	T.	.....
Grand Meadow	0.56	0.21	0.43	1.28	4.88	6.23	3.55	1.88	3.17	0.30	1.81	0.27	24.57
Grand Portage	.....	.....	1.11	.....	2.40	2.69	2.25	1.77	5.88	0.87	0.67	[b]0.99	.....
Granite Falls	0.17	0.17	[c]0.41	1.74	2.65	2.68	1.75	1.52	3.22	T.	0.99	0.04	15.34
Hutchinson	0.75	0.55	0.75	1.30	4.40	2.00	0.95	1.40	4.85	T.	1.17	T.	18.12
Koochiching	.....	.....	0.40	3.38	3.55	6.10	2.60	1.90	[d]1.19	[d]0.60	1.79	1.07	.....
Lake Winnibigoshish	0.31	0.41	0.08	0.79	3.51	8.63	4.13	3.57	3.16	0.28	0.77	0.30	25.94
Lawrence	0.75	0.14	0.29	1.55	3.02	3.92	4.45	2.78	4.62	0.10	0.81	.....	.....
Leech Lake	0.20	0.57	0.05	0.83	3.84	5.85	4.96	1.70	3.47	0.18	0.97	0.24	22.86
Littlefalls	0.40	0.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Long Prairie	0.42	0.12	T.	2.13	3.05	5.18	5.45	3.17	3.92	0.04	1.18	0.17	24.83
Luverne	0.90	0.25	2.26	2.62	3.52	5.91	2.20	2.14	3.61	0.35	2.15	0.14	26.05
Mapleplain	1.09	0.66	0.67	1.96	2.29	2.52	2.84	1.96	4.71	0.10	1.18	0.16	20.14
Mazeppa	0.80	0.70	0.10	1.30	1.90	5.10	2.15	1.70	2.40	0.90	1.90	0.60	19.55
Milan	0.44	0.67	0.05	1.37	1.50	2.97	1.47	2.15	2.23	0.10	1.72	0.05	14.72
*Minneapolis	0.88	0.42	0.44	1.68	2.90	3.67	4.37	1.92	4.26	0.05	0.70	0.15	21.44
Minneapolis[1]	1.08	0.46	0.51	1.59	2.67	3.40	4.15	2.27	4.69	0.09	0.94	0.23	22.08
Minneapolis[2]	0.92	0.40	0.49	1.72	2.83	3.74	4.17	1.94	4.23	0.08	0.70	0.13	21.35
Minnesota City	0.91	0.45	0.53	3.85	3.46	3.32	3.11	2.30	3.55	0.55	1.20	0.82	24.05
Montevideo	0.50	0.67	0.54	1.13	2.55	2.50	1.41	2.26	2.79	T.	1.25	0.02	15.62
*Moorhead	0.33	0.37	0.03	1.46	1.34	5.62	3.05	1.49	1.45	0.21	1.88	0.15	17.38
Morris	0.40	0.08	T.	1.71	1.74	6.37	2.00	1.76	1.75	T.	0.95	0.01	16.77
Mount Iron	0.75	0.93	0.26	2.32	6.09	6.48	8.36	3.29	5.28	0.50	1.37	0.47	36.10
New London	0.67	0.10	T.	1.83	2.23	3.38	1.41	2.08	2.55	T.	0.90	T.	15.15
New Ulm	0.27	0.49	0.31	0.97	2.86	2.05	4.78	1.14	5.80	T.	1.09	0.09	19.85
Park Rapids	0.36	0.21	0.07	0.47	3.24	7.14	3.91	2.77	2.30	0.21	0.92	0.24	21.84
Pine River	0.24	0.59	0.71	0.81	4.42	6.23	2.52	2.23	4.39	0.18	1.38	0.06	23.76
Pleasant Mounds	0.40	0.45	0.36	1.99	2.91	3.76	2.81	2.07	5.54	0.18	1.03	T.	21.50
Pokegama Falls	0.61	0.39	0.00	1.54	5.32	6.28	3.65	2.56	3.99	0.18	1.53	0.48	26.53
Redlake	0.91	0.60	0.07	2.09	[b]3.05	7.89	3.50	2.49	1.81	.....	0.25	0.45	.....
Red Wing	.....	.....	0.20	1.75	4.25	3.72	3.60	1.84	3.92	0.18	1.62	0.60	.....
*Redwood Falls	0.20	0.65	0.84	1.68	2.86	3.54	.....	.....	.....	.....	.....	.....	.....
*Reeds Landing	.....	.....	.....	.....	.....	5.39	6.42	2.21	4.45	0.35	1.29	0.58	.....
Rolling Green	0.65	0.40	0.35	2.75	3.00	2.10	1.80	2.90	6.20	0.60	1.05	T.	21.80
Roseau	.....	.....	.....	1.71	[e]1.70	7.54	.....	.....	3.44	0.88	1.13	.....	.....
St. Charles	1.00	0.47	0.38	2.52	4.46	3.55	3.63	2.63	3.79	0.73	2.07	1.17	26.40
St. Cloud	0.48	0.70	0.24	2.30	3.99	2.55	3.16	2.28	3.84	T.	0.94	0.00	20.48
St. Olaf	0.40	0.24	0.25	2.19	2.33	7.14	4.47	3.03	1.08	0.12	0.82	0.10	22.17
*St. Paul	1.05	0.42	0.85	2.09	2.89	4.18	4.12	2.59	4.75	0.09	0.85	0.38	24.26
St. Peter	0.52	0.62	0.51	1.75	4.12	1.56	5.74	2.01	8.30	0.18	1.80	0.03	27.14
*St. Vincent	0.77	0.44	0.20	1.75	3.46	4.15	3.36	2.61	1.20	0.74	1.21	0.71	20.60
Sandy Lake Dam	0.58	0.93	0.04	0.20	4.59	2.69	3.08	2.50	5.82	0.03	1.07	0.17	21.70
Sauk Center	0.60	0.38	T.	2.28	2.81	3.43	2.06	2.17	3.46	T.	1.37	0.03	18.59
Shakopee	.....	0.54	0.28	1.17	1.93	1.64	3.36	2.06	4.35	0.10	0.78	0.01	.....
Tower	.....	.....	.....	.....	.....	.....	3.33	1.22	3.97	0.90	2.10	0.40	.....
Two Harbors	0.53	0.55	0.71	1.19	4.12	5.02	3.18	2.63	8.63	0.50	1.20	0.99	29.25
Wabasha	1.50	0.84	0.50	1.95	3.10	5.09	5.71	2.19	4.42	0.40	2.39	0.69	28.78
Willmar	0.65	0.52	0.40	1.92	4.58	9.43	4.74	3.04	3.92	T.	1.34	T.	30.54
Winona	0.92	0.61	0.54	2.25	6.67	4.32	2.67	2.71	5.31	0.51	1.29	1.55	29.35
Worthington	0.84	0.35	0.83	2.39	3.29	3.98	0.87	1.68	6.15	0.67	1.22	.....	.....
Mississippi.													
*Aberdeen	.....	.....	.....	.....	2.43	10.72	3.55	1.15	0.80	2.00	.....	.....	.....
Agricultural College	8.68	1.75	8.03	2.63	1.81	5.42	2.54	4.71	2.06	2.72	1.71	5.43	47.49
*Batesville	6.00	0.50	4.24	3.26	1.74	3.58	6.64	0.53	1.05	1.59	3.57	3.94	36.74
Bay St. Louis	4.52	4.45	7.50	4.08	6.80	9.73	.....	.....	1.71	3.45	1.63	3.28	.....
Biloxi	5.89	4.67	7.13	5.45	6.25	17.10	3.57	7.75	2.10	4.70	0.45	3.60	68.66
Briers	3.22	1.83	7.35	2.31	2.32	5.40	5.51	7.49	1.97	1.83	3.66	4.38	47.27
*Brookhaven	6.51	3.74	7.77	2.92	5.41	5.07	6.45	5.11	0.60	1.75	2.64	7.34	55.31
Canton	7.60	1.75	7.08	2.66	2.10	5.35	4.45	5.67	0.17	2.62	2.09	5.35	46.89
*Columbus[3]	8.57	0.60	7.17	4.72	1.43	3.11	1.83	8.91	1.15	2.95	2.10	4.60	47.14
*Columbus[4]	.....	.....	.....	.....	.....	.....	1.69	7.36	0.94	2.64	.....	.....	.....
*Corinth	4.45	.....	6.26	7.50	3.58	2.64	8.94	3.62	1.23	1.34	.....	.....	.....
Crystal Springs	5.30	2.31	7.73	2.31	4.33	4.42	3.03	3.96	1.65	1.86	2.29	7.15	46.34
Duckhill	6.58	0.70	8.03	4.95	2.21	3.58	5.58	1.96	2.39	.....	.....	2.45	.....
Edwards	5.52	1.72	6.36	1.58	3.45	6.48	2.10	4.56	0.85	1.67	3.39	4.56	42.24
Enterprise	5.59	3.17	.....	2.25	[c]5.23	4.65	5.02	.....	1.00	.....	.....	.....	.....
Fayette	3.36	3.82	2.70	2.51	2.75	5.07	5.22	4.18	1.47	2.38	3.94	6.98	44.38
French Camp	7.58	1.80	8.89	3.10	2.93	[c]3.13	2.66	3.99	0.07	3.89	1.62	5.46	45.12
Fulton	6.10	2.38	8.50	4.70	2.33	2.50	3.59	2.56	2.00	2.14	1.88	6.86	45.54
Greenville[5]	6.33	1.25	7.37	1.70	1.38	11.28	4.61	6.02	0.32	1.32	3.72	3.57	48.87
*Greenville[3]	6.32	1.25	7.37	1.71	1.32	11.50	4.30	7.23	0.37	1.20	3.78	3.58	49.93
Hattiesburg	6.79	3.46	7.04	1.20	3.76	7.68	2.81	5.50	1.90	.....	.....	.....	.....
*Hazlehurst	.....	.....	.....	0.65	3.78	2.63	3.62	5.94	0.35	2.05	.....	.....	.....
*Hernando	4.60	0.50	4.55	2.45	1.50	1.35	3.83	0.60	1.08	0.20	.....	.....	.....
*Holly Springs	6.08	0.87	6.22	3.61	1.38	2.11	9.02	2.28	1.56	1.72	.....	.....	.....
Ittabena	.....	.....	[f]4.97	1.68	2.61	6.39	3.23	3.65	[d]1.03	1.73	3.17	3.91	.....
*Jackson	6.13	1.84	5.04	1.34	2.90	5.33	3.10	3.03	0.72	1.91	2.05	6.77	40.16
Kosciusko	7.59	2.75	7.36	0.00	2.03	8.62	2.08	.....	0.00	2.62	2.07	4.66	.....
*Lake	[d]2.89	.....	4.10	1.63	4.26	6.20	5.23	6.20	0.92	1.74	2.62	6.90	.....
Leakesville	7.18	4.81	5.93	7.02	3.33	10.03	11.70	4.84	2.15	4.05	0.98	4.11	66.13
Leonia	.....	.....	.....	.....	.....	12.91	5.81	4.29	0.67	.....	.....	.....	.....
Logtown	5.58	5.24	5.53	3.25	5.92	5.41	9.61	9.83	2.68	2.16	0.91	3.84	59.36
Louisville	7.12	2.49	8.08	2.31	2.26	5.63	2.79	4.61	1.25	2.75	2.56	4.76	46.61

[1] William Cheney. [2] J. H. Aschenbeck. [3] Cotton region and river observer. [4] Cotton region observer. [5] Robert Somerville.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Mississippi—Continued.													
*Macon	6.55	1.67	6.18	.....	1.45	4.63	4.66	2.67	1.99	2.37	.....	.....	.....
Magnolia	.....	.....	.....	.....	7.36	7.53	12.29	8.27	1.27	2.31	.....	5.29	.....
Mayersville	.....	.....	9.20	4.85	1.75	7.23	6.02	6.30	0.30	1.79	2.79	4.70	.....
*Meridian	7.42	1.63	6.01	1.44	5.46	5.81	6.82	4.88	0.85	3.02	1.97	5.28	50.59
Mossspoint	6.98	3.60	9.45	3.35	8.04	9.70	8.45	12.60	.....	7.30	0.00	5.88	.....
*Natchez	4.35	1.45	7.85	1.90	1.88	4.75	5.50	6.46	0.42	2.71	4.95	5.20	47.42
*Okolona	5.79	0.69	8.32	.....	3.01	2.81	1.82	1.37	0.67	2.02	1.26	6.55	.....
Palo Alto	10.92	4.07	9.84	4.24	1.32	4.36	.....	.....	.....	.....	1.37	6.27	.....
Pontotoc	5.51	1.61	6.25	2.20	3.44	5.21	3.81	1.86	2.03	0.50	2.60	6.58	41.60
*Port Gibson	4.49	2.39	5.01	2.48	3.28	5.19	4.03	7.14	1.15	1.47	3.43	5.51	45.57
Rosedale	6.56	1.16	5.71	2.77	2.93	.....	.....	.....	.....	0.97	3.74	4.29	.....
Thornton	5.77	3.90	5.22	2.47	2.85	7.05	4.14	4.19	0.40	2.00	2.90	5.25	46.14
Topton	7.55	1.72	4.95	2.87	5.49	6.40	6.15	3.60	0.85	1.55	1.70	3.80	46.63
University	5.67	0.67	3.32	3.49	1.22	.....	2.13	2.03	.....	.....	4.22	.....	.....
Vaiden	7.49	1.03	9.32	2.76	2.96	5.73	2.56	4.09	0.05	2.83	2.30	7.34	48.46
*Vicksburg	6.56	1.70	6.02	1.25	3.02	7.11	2.46	3.77	0.14	1.62	2.74	3.70	40.09
Water Valley	6.07	1.25	6.71	4.92	2.76	9.79	4.40	1.31	3.30	2.19	3.43	6.11	52.24
Waynesboro[1]	7.80	1.45	3.95	5.40	4.35	8.15	4.45	5.65	1.67	2.05	1.20	4.10	50.22
*Waynesboro[2]	.....	.....	.....	.....	5.66	8.99	4.74	6.16	1.75	1.78	.....	.....	.....
Woodville	5.52	2.86	5.01	2.94	5.53	6.37	6.43	5.24	1.41	2.10	4.12	6.46	53.99
*Yazoo City	6.26	1.82	8.30	1.61	2.61	5.89	4.63	4.91	0.04	2.72	1.94	3.44	44.17
Missouri.													
Akron	.....	0.44	1.66	2.72	2.99	7.89	6.45	6.37	1.31	0.13	1.27	2.83	.....
Appleton City	1.10	0.65	1.82	2.72	5.03	9.47	5.75	2.81	0.58	0.32	4.64	8.45	43.34
*Arlington	.....	.....	0.90	1.10	0.36	0.99	.....	.....	.....	.....	.....	.....	.....
Arthur	0.90	0.25	2.25	2.70	7.04	7.33	8.82	4.50	2.09	0.50	3.01	7.25	46.64
*Bagnell	2.30	0.50	2.02	1.10	4.74	5.16	13.03	3.83	0.50	0.00	.....	.....	.....
Bethany	0.84	0.57	1.05	1.48	3.69	5.54	4.23	9.42	0.26	0.12	1.50	2.48	31.18
Bigpiney	.....	.....	1.35	0.80	1.25	1.90	.....	.....	.....	.....	.....	.....	.....
Birchtree	2.10	0.43	3.42	2.33	2.20	9.49	14.51	2.76	2.04	0.81	4.95	5.92	50.96
Bluffton	0.89	.....	1.64	0.80	5.96	7.98	8.56	2.26	5.71	0.27	2.85	.....	.....
*Boonville	1.39	0.38	2.23	2.57	6.74	7.43	6.97	3.00	0.38	0.04	4.07	7.89	43.09
Brunswick	1.05	0.20	2.09	0.80	1.00	6.58	6.13	3.52	2.06	0.05	3.19	6.26	32.93
Carrollton	0.60	0.57	1.44	1.10	4.97	8.94	7.41	4.70	2.13	0.60	3.46	5.51	41.43
Carthage	1.23	0.34	1.98	0.63	5.61	.....	.....	.....	.....	.....	.....	.....	.....
*Columbia	1.23	0.31	3.41	1.04	6.09	5.78	4.93	2.30	1.48	0.25	4.19	7.82	38.83
Conception	0.30	0.44	0.26	2.29	2.06	6.72	5.75	8.56	0.47	0.05	0.83	1.66	29.39
Cowgill	0.40	0.27	0.36	1.18	3.90	5.85	6.26	4.28	0.82	0.28	1.37	5.14	30.11
Darksville	1.02	0.25	1.38	0.91	5.88	9.95	6.88	5.18	.....	0.40	3.35	5.72	.....
Downing	0.65	0.20	2.63	4.41	3.69	5.79	7.28	3.55	3.22	0.20	1.99	4.53	38.14
East Lynne	0.97	0.66	2.97	4.11	7.02	8.11	8.92	6.06	1.97	0.22	3.89	7.11	52.01
Edgehill	2.51	0.36	3.14	2.25	1.20	4.90	4.36	3.11	3.50	0.75	4.15	5.83	36.06
Eightmile	1.18	0.91	1.42	3.62	6.45	6.61	7.52	5.66	1.89	0.17	4.11	6.02	45.56
Eldon	1.08	0.35	2.42	1.59	6.15	8.62	10.76	2.78	0.74	0.13	2.59	8.88	46.09
Elmira	0.85	0.61	1.56	1.27	2.89	6.46	6.52	5.45	0.58	0.30	2.49	4.42	33.40
Emma	0.60	0.90	0.91	1.22	4.83	7.55	6.35	3.75	1.95	T.	2.45	6.35	36.86
Fairport	0.90	0.70	0.66	1.24	2.55	5.22	6.62	7.61	0.66	0.20	1.58	3.05	30.99
Farmersville	0.92	0.67	0.65	1.46	3.24	4.95	5.31	8.99	0.99	T.	2.44	3.79	33.41
Fayette	1.03	0.54	2.08	1.23	4.22	7.79	6.16	2.62	0.68	0.08	4.35	7.51	38.29
Foxcreek	1.50	1.25	2.75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fulton	1.00	0.25	3.10	2.25	5.20	4.60	8.50	1.67	4.45	0.38	3.07	10.35	44.82
Gallatin	0.93	0.64	0.79	1.97	5.24	7.40	4.87	8.07	1.36	0.31	1.78	3.63	36.99
Gayoso	5.82	0.46	5.47	2.13	3.24	2.22	5.85	3.18	2.86	.....	6.97	4.04	.....
Glasgow	0.85	0.40	1.39	0.83	4.56	5.82	5.63	2.90	0.78	0.14	3.94	7.50	34.74
Gordonville	3.51	0.43	3.82	3.63	2.19	5.70	5.29	1.35	2.65	0.73	6.80	4.51	40.61
Gorin	1.21	0.17	2.34	4.11	5.65	4.78	4.33	3.74	3.25	0.32	2.72	5.01	37.63
Grovedale	1.80	0.96	2.21	2.94	4.50	5.18	7.87	5.65	1.47	0.52	3.23	8.43	44.76
Halfway	1.60	0.53	2.04	2.05	3.01	6.66	6.25	2.78	1.80	0.16	3.04	9.27	39.19
*Hannibal	1.57	0.39	1.77	1.95	6.23	3.92	8.01	4.86	2.69	0.36	4.40	5.98	42.13
Harrisonville	0.72	1.13	1.84	2.49	8.49	6.47	9.13	7.30	1.80	0.18	3.92	5.52	48.99
Hastain	1.97	1.23	2.53	1.21	4.62	5.03	5.75	3.45	0.83	T	3.31	9.72	39.65
*Hermann	1.21	0.35	1.71	0.72	5.58	5.66	7.90	1.17	4.92	0.32	2.39	8.15	40.08
Houston	1.58	0.34	2.78	2.32	3.01	6.15	8.89	4.01	3.12	0.88	4.92	4.51	42.51
Houstonia (near)	1.64	1.31	2.15	1.78	4.55	6.27	4.26	2.37	1.53	0.13	3.69	7.26	36.94
Humansville	1.09	.....	.....	1.64	3.93	6.13	5.61	2.36	2.43	1.10	3.57	8.24	.....
Ironton	2.60	0.62	3.30	1.82	0.97	5.37	5.45	2.48	3.30	0.85	4.81	6.20	37.77
Jefferson City	1.70	0.44	2.75	2.22	6.98	5.36	8.90	3.10	1.45	0.35	2.15	9.20	44.60
*Kansas City	0.32	0.59	0.95	1.19	3.88	7.72	9.64	7.21	1.43	0.12	3.05	5.12	41.22
Kidder	1.15	0.67	0.86	1.59	3.75	7.05	5.41	9.92	1.55	0.36	2.42	5.40	40.13
Lamar	1.55	0.35	2.20	4.34	4.89	9.04	7.26	3.20	5.31	0.85	3.77	8.08	50.84
Lamonte	0.90	0.28	1.57	2.27	4.86	6.66	4.05	2.98	1.04	0.23	3.99	7.98	36.81
Langdon	0.17	1.10	0.68	2.14	4.63	4.32	3.16	9.47	.....	.....	.....	.....	.....
Lebanon	1.85	0.39	3.25	2.64	6.13	5.91	7.70	3.63	1.37	0.20	3.44	12.07	48.58
Lexington	0.73	0.34	1.28	1.71	7.48	9.47	5.09	4.86	0.86	0.19	3.28	5.66	40.95
Liberty	0.41	0.40	0.68	0.86	4.64	7.21	5.42	7.39	0.41	0.26	2.39	4.64	34.71
Linncreek	1.30	0.16	1.71	1.00	3.37	4.26	.....	.....	.....	.....	.....	.....	.....
*Louisiana Bridge	1.30	0.60	2.27	1.73	3.76	2.82	9.22	5.03	3.14	0.74	.....	.....	.....
McCune	0.85	1.50	3.79	1.11	5.64	4.15	13.29	5.86	3.08	0.28	4.78	7.93	52.17
Marblehill	1.98	0.15	2.87	3.65	1.17	9.12	8.03	1.75	2.81	0.30	6.09	4.37	42.29
Marceline	1.38	0.56	1.26	1.29	4.82	6.08	4.81	9.18	2.02	0.35	3.71	5.57	41.03
Marshall	1.15	0.51	1.20	1.18	4.48	6.57	4.73	2.53	1.06	0.05	4.01	6.13	33.60
Maryville	0.41	0.88	0.38	2.47	2.89	7.30	3.76	6.51	0.25	0.10	0.52	1.28	26.75
Mexico	1.06	0.61	3.11	1.47	6.20	5.68	8.01	2.81	5.35	0.15	4.86	8.13	47.50
Miami	1.35	0.50	3.38	0.93	3.08	6.83	6.39	3.15	1.45	0.35	4.35	7.10	38.86
Mine Lamotte	2.26	0.22	2.98	1.68	2.19	6.34	4.37	2.70	4.21	0.64	4.38	4.02	35.99
Mount Vernon	2.01	0.47	3.38	1.05	6.02	4.55	5.81	2.76	4.21	0.07	3.70	12.52	46.55
Neosho	2.45	0.25	.....	2.23	7.51	6.11	8.06	4.76	11.24	0.41	4.61	12.21	.....
Nevada	1.17	0.31	2.88	0.98	3.61	4.82	7.25	4.68	4.36	0.33	3.22	8.43	42.04

[1] W. S. Davis.

[2] Cotton region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Missouri—Continued.													
New Hartford	1.65	0.80	.....	0.53	.....	.....	.....	.....	.....	.....	.....	.....	.....
Newhaven	1.40	1.25	2.37	0.56	4.90	4.05	5.61	2.69	2.96	0.14	2.75	7.57	36.25
New Madrid	4.81	0.28	4.64	2.73	4.08	3.96	8.50	3.60	2.14	1.55	7.06	5.33	48.68
New Palestine	1.12	0.12	2.43	2.31	5.29	6.08	6.10	2.28	0.82	0.19	3.11	6.71	36.56
Oakfield	1.58	0.27	2.77	0.66	3.96	5.54	6.28	5.66	3.20	0.31	3.28	5.88	39.39
Oakridge	3.30	0.79	3.05	2.70	0.85	6.80	5.95	2.52	3.05	0.25	5.61	3.77	38.64
Olden	1.76	0.35	3.50	3.44	3.37	5.80	6.90	4.89	2.48	.....	.....	.....	.....
Oregon[1]	0.93	0.96	0.74	2.37	3.04	5.17	2.96	8.06	0.32	0.24	0.94	1.75	27.48
Oregon[2]	0.83	0.91	0.80	2.14	3.08	5.13	2.92	8.26	0.29	0.20	0.86	1.55	26.97
Osceola	1.65	0.50	3.17	1.37	5.55	2.65	6.40	2.95	1.14	0.25	0.67	7.37	33.67
Oto	1.95	1.55	2.88	1.63	3.61	4.32	9.05	3.10	8.80	0.40	3.30	7.37	47.96
Palmyra	1.52	0.42	1.65	3.03	5.70	7.05	7.70	5.34	2.50	0.33	4.70	6.42	46.36
Panacea	2.15	0.25	2.74	1.68	7.02	3.49	.....	.....	.....	.....	.....	.....	.....
Phillipsburg	.....	.....	.....	2.04	3.86	6.89	7.75	3.34	2.24	0.29	2.88	13.67	.....
Pickering	0.53	1.43	0.64	1.79	3.23	6.41	5.92	6.13	0.38	0.11	1.74	1.46	29.77
Pierce City	.....	.....	1.10	0.02	5.75	4.80	7.05	[c]5.25	4.50	.....	.....	.....	.....
Platte River	0.85	0.71	0.82	1.93	1.95	4.21	8.69	7.71	0.41	0.35	1.46	3.15	32.24
Poplarbluff	3.08	1.60	3.43	2.90	1.21	6.63	6.40	1.65	1.08	0.27	4.90	3.81	36.96
Potosi	2.35	1.25	2.91	1.33	1.20	6.04	7.29	2.88	3.17	0.93	3.80	4.99	38.14
Princeton	1.40	T.	1.72	3.01	3.09	6.47	7.56	6.31	2.41	T.	1.83	2.98	36.78
St. Charles	1.30	1.12	1.24	0.52	3.63	2.79	7.59	2.33	2.17	0.41	3.34	6.32	32.76
*St. Joseph	0.52	0.37	0.19	2.19	1.72	4.00	6.53	8.14	0.97	0.26	1.01	1.73	27.63
*St. Louis	1.65	0.43	2.82	0.46	3.16	2.46	7.26	2.08	2.01	0.23	3.98	4.66	31.20
St. Louis[3]	.....	0.43	2.92	0.83	3.30	2.61	8.01	2.46	2.01	0.31	3.35	5.29	.....
Sarcoxie	2.07	0.40	2.85	1.20	4.06	5.35	7.50	5.58	4.67	0.55	3.64	11.22	49.09
Shelbina	1.00	0.40	1.70	0.70	4.20	6.30	9.50	5.30	0.57	0.20	3.40	6.90	40.17
Sikeston	3.07	1.80	3.34	2.73	1.99	.....	.....	.....	.....	0.42	6.33	3.69	.....
*Springfield	2.33	0.81	4.70	1.10	3.54	3.87	7.86	4.57	3.66	0.78	3.22	11.02	47.46
Steffenville	1.50	0.46	1.18	3.42	4.95	6.29	6.54	5.79	3.35	0.53	3.19	5.05	42.25
Stellada	0.97	6.67	1.18	3.27	7.81	7.05	6.63	3.08	1.48	0.20	3.14	8.14	43.62
Sublett	1.07	0.06	1.40	3.80	3.10	7.32	11.47	5.40	5.00	0.04	1.70	6.31	46.67
Tindall	1.36	0.29	0.55	1.51	3.22	4.43	.....	5.41	1.60	0.00	.....	2.85	.....
Trenton	.....	.....	.....	.....	4.28	5.10	4.64	7.90	1.24	0.16	.....	3.80	.....
Unionville	1.25	0.59	1.23	3.54	2.40	7.46	4.09	5.71	3.21	0.10	1.51	5.42	36.51
Vermont	1.67	0.27	1.76	1.11	6.08	5.32	5.64	[d]2.19	1.60	0.00	4.68	7.44	37.76
Versailles	.....	.....	.....	1.27	7.79	5.48	7.28	1.63	0.66	.....	.....	.....	.....
Vilas[4]	0.45	0.65	1.01	2.75	2.47	8.86	4.12	5.07	0.76	T.	1.39	1.98	29.51
Virgil City	0.75	0.23	.....	2.20	4.97	6.77	5.58	3.68	1.45	0.39	3.20	8.81	.....
Warrensburg	0.85	0.32	1.76	2.79	3.45	6.23	3.55	1.47	0.58	T.	3.89	7.44	32.33
Warrenton	1.19	0.27	3.71	0.30	5.70	7.53	6.71	1.78	4.98	0.33	3.20	8.23	43.93
Wheatland	1.58	0.64	2.80	1.55	5.22	6.59	5.96	1.88	1.35	0.58	4.17	9.34	41.66
Willow Springs	.....	0.55	5.38	2.28	3.09	5.57	6.46	3.26	5.42	0.96	4.21	7.40	.....
Zeitonia	.....	.....	.....	.....	.....	.....	.....	2.34	1.82	0.97	5.85	6.15	.....
Montana.													
Bigtimber	.....	.....	.....	.....	.....	4.69	0.50	1.38	1.14	0.28	1.34	0.36	.....
Billings	1.95	0.35	0.74	2.10	0.55	3.08	0.51	1.51	0.22	2.20	1.20	0.22	14.63
Boulder	0.49	0.17	0.03	0.38	0.73	2.90	0.74	0.06	0.81	0.46	.....	.....	.....
Bozeman	1.33	0.27	1.10	1.18	2.36	3.27	0.97	0.57	2.95	0.44	2.22	1.50	18.16
Butte	0.93	0.14	0.27	0.25	1.09	0.85	1.07	0.19	1.19	0.17	0.31	0.49	6.95
Choteau	1.61	1.85	1.05	0.24	0.42	3.06	1.04	0.39	0.75	0.30	1.40	1.05	13.16
Cokedale	2.70	2.25	2.20	1.11	1.10	2.10	0.76	1.15	4.50	0.39	2.96	1.35	22.57
Columbia Falls	2.05	0.52	0.81	0.41	2.49	1.30	1.94	0.21	3.26	0.26	1.73	0.24	15.22
Deerlodge	2.06	0.59	0.62	0.51	0.64	.....	.....	.....	.....	.....	0.02	0.11	.....
Dillon	.....	0.10	0.21	0.67	.....	.....	.....	.....	.....	T.	0.80	0.40	.....
Fort Benton	.....	.....	0.40	1.60	1.14	2.03	2.56	0.20	0.59	0.04	0.70	0.19	.....
Fort Custer	1.67	1.09	1.66	0.54	0.50	3.12	0.60	1.25	0.95	0.85	1.61	0.36	14.20
Fort Keogh	0.78	1.40	0.20	1.62	1.50	3.74	0.27	0.39	0.56	0.80	1.10	0.18	12.54
Fort Logan	0.32	0.21	0.37	1.99	0.97	1.23	1.08	0.22	1.96	0.55	0.46	0.47	9.53
Fort Missoula	1.54	0.22	0.19	0.35	1.06	1.19	1.51	0.23	1.04	0.16	0.58	1.52	9.59
Glasgow	0.84	0.97	0.20	0.42	1.18	2.49	0.40	0.54	0.44	0.30	0.98	1.25	10.01
Glendive	0.60	0.90	0.50	1.04	2.00	5.70	1.84	0.20	0.10	0.22	1.30	0.90	15.30
Grantsdale	.....	.....	.....	.....	.....	.....	0.80	0.12	0.84	[e]0.02	0.16	.....	.....
Greatfalls	0.74	0.53	0.11	1.00	0.21	2.24	0.76	0.20	0.02	0.10	0.59	0.23	6.73
*Havre	1.06	0.91	0.34	0.62	0.43	3.36	2.24	0.04	1.05	0.12	0.47	0.30	10.94
*Helena	1.95	1.69	0.29	0.53	0.87	1.30	1.18	0.14	0.57	0.28	0.77	1.12	10.69
Hogan	1.62	1.80	0.70	0.25	0.68	4.72	1.04	1.00	0.39	0.64	1.00	1.10	14.94
Kipp	1.16	1.40	0.65	0.91	1.13	4.27	2.18	0.04	1.24	1.70	0.40	0.97	16.05
Libby	.....	.....	.....	.....	.....	.....	0.71	0.10	1.80	0.39	1.04	2.78	.....
Livingston	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.43	1.97	0.53	.....
Manhattan	.....	.....	.....	.....	1.14	0.79	0.53	.....	2.05	0.14	0.31	0.50	.....
Martinsdale	1.62	1.03	1.12	0.76	0.38	1.07	1.38	1.02	2.17	T.	0.79	0.32	11.66
Marysville	1.54	0.94	0.42	[g]0.36	1.48	2.87	0.65	0.42	0.97	0.63	1.01	1.81	13.10
*Miles City	0.80	0.64	0.24	1.31	1.59	4.40	0.64	0.39	0.30	0.89	0.77	0.77	12.74
Musselshell	.....	.....	0.15	T.	.....	.....	0.08	.....	.....	.....	.....	.....	.....
Pony	0.60	0.72	1.03	0.90	0.91	.....	.....	1.00	0.40	.....	.....	.....	.....
Poplar	.....	.....	.....	.....	0.69	2.30	1.01	0.39	0.28	.....	.....	0.40	.....
Radersburg	0.53	0.02	T.	0.24	0.42	1.57	.....	.....	1.75	.....	T.	2.50	.....
Sun River	.....	.....	0.40	0.90	0.53	1.76	1.43	.....	0.45	[h]T.	0.49	[i]0.02	.....
Toston	.....	.....	.....	.....	.....	.....	.....	.....	.....	T.	0.70	.....	.....
Troy	2.59	0.74	0.42	1.31	2.53	0.60	1.73	0.23	2.46	0.59	1.52	2.20	16.92
Utica	.....	0.20	0.15	0.75	0.39	3.76	1.31	0.00	[h]0.45	0.00	0.80	0.52	.....
Virginia City	0.99	0.06	1.03	0.94	1.42	2.12	1.00	0.83	2.04	0.19	0.76	1.28	12.66
White Sulphur Springs	0.51	0.17	0.13	0.96	0.45	0.99	0.70	1.90	0.90	0.15	0.90	1.10	8.86
Wibaux	0.77	0.45	0.05	0.94	1.74	5.54	2.23	0.89	0.15	0.15	0.80	0.14	13.85
Yale	.....	.....	.....	1.51	0.59	1.34	0.33	0.93	0.80	T.	0.60	0.32	.....

[1] W. Kaucher. [2] S. M. Ruley. [3] F. W. Duenckel. [4] Name of station changed to Irena, Nov. 1, 1895.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Nebraska.													
Agee	0.40	0.13	1.10	3.23	2.02	5.84	0.85	2.81	1.98	0.10	1.06	T.	19.52
Albion	0.32	0.88	0.42	2.08	3.78	4.62	0.00	2.39	.....	.....	.....	0.10	.....
Alliance	.....	.....	.....	.....	1.34	3.41	1.26	0.81	0.16	0.25	0.82	0.19	.....
Alma	.....	.....	.....	2.30	5.06	3.91	.....	.....	.....	.....	.....	.....	.....
Amelia	.....	.....	.....	.....	.....	6.40	0.78	.....	.....	.....	0.79	0.01	.....
Ansley	0.05	1.37	0.32	2.76	2.59	5.90	1.08	2.63	2.78	0.45	0.91	0.10	20.94
Arborville	0.20	0.80	0.50	1.20	2.37	5.75	1.45	8.91	1.35	0.23	0.93	T.	23.69
Arcadia	.....	.....	.....	.....	.....	.....	0.90	3.60	3.00	.....	.....	.....	.....
Ashland	0.14	0.38	0.48	2.31	2.62	6.21	2.00	6.36	0.97	T.	0.82	0.26	22.55
Ashton	0.02	0.95	0.12	1.86	2.50	5.03	0.62	3.05	2.02	0.32	1.03	0.15	17.67
Auburn	0.33	1.21	1.87	3.25	2.26	4.61	2.43	5.64	0.93	0.23	1.33	0.56	24.65
Aurora	.....	.....	.....	2.08	2.79	5.18	1.95	4.05	0.62	0.22	0.89	0.13	.....
Bancroft	.....	0.25	0.36	2.32	.....	4.88	0.76	5.16	.....	.....	.....	.....	.....
Bassett	0.50	0.53	1.95	2.98	2.25	5.06	0.55	1.74	1.22	T.	1.54	T.	18.32
Beatrice	T.	1.05	0.52	1.55	2.59	3.48	3.04	3.79	1.09	0.00	1.25	.....	.....
Beaver City	0.28	1.02	0.15	2.18	4.11	6.50	4.63	2.14	1.00	0.91	1.22	0.13	24.27
Benkelman	0.55	1.00	0.10	1.53	2.55	4.56	3.44	1.21	T.	0.00	1.17	T.	16.11
Bluehill	0.10	1.15	0.01	2.00	1.77	4.36	2.89	7.56	0.70	0.56	0.94	0.05	22.09
Bratton	0.49	1.27	1.66	3.11	3.14	3.00	2.88	6.84	1.01	0.25	1.23	0.55	25.43
Brokenbow	0.05	.....	.....	.....	2.30	9.90	1.05	3.94	1.89	0.00	0.50	0.05	.....
Burchard	0.40	1.05	0.50	1.80	1.96	3.12	1.61	7.28	1.40	0.20	1.09	0.28	20.69
Burwell	0.42	1.26	0.65	1.82	2.09	4.97	1.14	4.53	2.02	0.00	1.20	0.12	20.22
Callaway	0.30	1.65	0.12	3.15	2.35	9.03	0.38	6.35	1.40	0.05	0.90	0.03	25.71
Central City	0.10	0.75	0.11	2.04	2.88	6.12	2.89	2.69	1.56	0.21	1.06	0.20	20.61
Chadron	0.77	.....	1.23	.....	.....	3.45	.....	0.60	.....	.....	.....	.....	.....
Chester	0.13	1.56	0.10	1.11	0.97	3.65	1.44	6.79	0.88	0.55	0.98	0.05	18.21
Columbus	0.15	0.85	1.13	3.82	1.87	5.77	0.88	4.53	3.13	0.07	0.64	T.	22.84
Cornlea	0.16	0.74	1.01	2.85	3.02	6.65	1.22	4.04	2.71	0.10	1.22	T.	23.72
Cortland	T.	1.00	1.00	2.79	2.23	4.69	1.38	.....	.....	.....	.....	.....	.....
Creighton	0.10	0.30	1.67	4.20	3.08	4.04	0.95	2.83	2.48	0.10	2.95	0.05	22.75
Crete	0.37	1.10	0.71	1.54	1.88	5.70	1.23	6.29	0.79	0.18	0.91	0.02	20.72
Culbertson	0.55	0.95	0.10	1.56	2.09	4.24	3.96	3.96	1.38	0.15	0.85	0.07	19.86
Curtis	0.30	1.45	T.	2.03	3.51	6.66	2.73	3.24	1.29	0.25	0.75	0.10	22.31
David City	0.25	0.85	0.30	2.35	2.15	6.70	0.55	5.95	2.50	T.	0.95	0.75	23.30
Divide	.....	.....	.....	*2.31	2.99	4.92	0.96	2.96	2.42	0.35	0.73	0.04	.....
Dunning	0.06	0.84	0.28	3.32	2.18	4.48	0.33	2.39	0.89	0.00	1.57	0.30	16.64
Edgar	0.03	1.07	0.20	2.00	1.15	4.35	1.70	4.80	1.10	0.65	0.78	0.10	17.93
Elba	.....	.....	0.10	1.51	2.38	4.43	0.45	3.86	2.05	.....	.....	.....	.....
Elwood	.....	.....	.....	2.37	3.02	3.72	.....	3.62	.....	.....	.....	.....	.....
Ericson	0.40	0.52	0.73	2.05	3.77	4.97	0.80	2.26	2.24	0.40	0.40	0.10	18.64
Ewing	0.14	0.32	0.98	3.43	3.82	7.50	0.04	2.68	1.98	0.05	0.69	0.10	21.73
Fairbury	0.00	1.69	0.10	1.88	2.65	4.66	2.52	7.83	0.94	0.31	1.16	0.05	23.79
Fairmont	T.	1.02	0.43	1.71	1.01	5.83	1.48	3.66	0.91	0.28	1.11	0.02	17.46
Filley	.....	.....	.....	.....	.....	.....	.....	4.35	0.51	.....	.....	.....	.....
Fontanelle	0.44	0.55	0.54	5.18	0.98	5.29	0.32	7.78	.....	.....	.....	.....	.....
Fort Robinson	0.61	0.10	2.35	0.82	2.36	5.15	0.50	0.68	0.80	0.28	0.75	0.20	14.60
Franklin	0.30	1.21	0.00	3.02	2.34	1.21	2.65	4.26	0.45	1.20	0.80	0.05	17.49
Geneva	0.20	1.55	0.25	2.59	1.47	6.11	2.53	4.72	1.16	T.	1.29	0.08	21.95
Genoa	0.19	1.04	0.92	2.58	3.82	5.95	0.88	5.10	2.11	0.16	1.06	0.13	23.94
Gering	0.75	0.21	0.63	0.43	2.12	4.06	1.53	0.18	0.27	0.16	0.61	0.09	11.14
Gibbon	0.40	1.40	0.07	1.90	3.40	3.97	.....	4.11	0.95	0.45	1.00	T.	.....
Glenwood	0.30	1.02	0.62	2.92	4.98	.....	.....	.....	.....	.....	.....	.....	.....
Gothenburg	0.22	1.05	0.20	1.61	2.20	7.00	1.14	3.67	1.35	0.24	1.07	0.14	19.89
Grand Island	0.25	1.30	0.07	2.16	7.16	5.34	2.83	4.93	1.50	0.41	1.07	0.75	27.77
Greeley	T.	0.17	0.09	3.01	3.50	5.34	0.75	3.94	2.80	0.10	0.50	0.00	20.20
Haigler	0.50	0.94	0.20	0.81	2.60	2.68	5.80	0.83	0.35	0.00	1.00	0.40	16.11
Hartington	0.65	0.54	0.52	3.99	2.38	6.24	2.33	3.92	4.77	0.06	1.04	T.	26.44
Harvard	0.15	1.45	0.17	2.43	1.41	5.07	2.78	4.23	0.75	0.29	1.48	0.06	20.27
Hastings	0.23	1.28	.....	2.20	2.13	5.76	3.21	6.68	0.78	0.34	0.65	0.22	.....
Hayes Center	0.62	1.15	0.20	1.60	2.43	5.95	3.34	3.17	.....	.....	1.26	0.25	.....
Hay Springs	1.00	0.30	1.32	4.33	1.96	3.49	0.72	0.90	0.54	0.14	0.69	0.30	15.69
Hebron	0.20	1.34	0.28	2.03	1.08	3.24	1.40	6.67	0.93	0.32	0.89	0.08	18.46
Hickman	0.06	0.79	0.53	3.82	1.73	.....	1.32	3.45	0.88	T.	1.44	0.00	.....
Holdredge	0.40	0.85	0.40	2.15	*3.92	5.06	2.50	2.92	1.27	0.46	1.30	0.15	21.38
Imperial	0.23	0.95	0.20	0.84	2.50	2.47	3.63	2.98	0.85	T.	0.75	0.40	15.80
Indianola	0.20	1.22	0.20	0.97	0.65	3.59	5.12	2.45	3.20	0.50	0.40	0.15	18.65
Kearney	0.20	1.11	T.	2.00	2.55	3.55	2.30	0.71	1.77	0.25	0.80	0.10	15.34
Kennedy	0.15	0.70	2.45	3.40	1.73	3.25	1.61	0.64	0.89	0.00	0.89	T.	15.71
Kimball	0.95	0.37	1.10	0.30	1.70	3.11	1.62	0.28	0.20	0.50	0.40	0.60	11.13
Lexington	1.20	1.40	0.30	1.53	2.71	3.37	1.86	5.43	2.31	.....	2.30	0.50	.....
Lincoln	.....	0.71	0.50	1.88	0.76	4.35	1.05	4.00	0.64	0.05	0.79	0.05	.....
Lodgepole	0.70	0.85	0.20	1.46	1.61	3.19	1.29	0.20	0.95	.....	.....	.....	.....
Lynch	0.15	0.22	1.55	3.65	2.22	5.64	1.23	1.75	3.04	0.02	0.75	T.	20.22
McCook	0.60	1.30	0.10	1.25	2.83	3.21	3.80	3.70	3.22	0.30	1.00	0.10	21.41
McCool	.....	.....	.....	.....	.....	.....	.....	.....	1.09	.....	1.00	0.10	.....
Madison	0.43	0.53	1.68	4.50	2.28	7.65	0.40	4.19	2.14	0.66	1.23	0.02	25.11
Madrid	0.70	1.37	0.20	0.78	3.11	3.37	1.55	2.10	0.52	0.09	0.70	0.20	14.69
Marquette	0.47	0.84	0.32	2.35	3.57	6.11	2.83	6.66	2.55	T.	1.11	0.22	27.03
Mason City	.....	1.30	0.17	2.68	2.93	5.63	1.80	.....	3.00	0.50	.....	.....	.....
Minden	0.41	1.64	0.11	2.70	5.14	3.87	3.07	3.22	0.89	0.48	0.92	0.33	23.38
Nebraska City	0.15	0.75	0.99	4.45	1.47	5.42	3.10	6.15	1.10	.....	.....	.....	.....
Nemaha City	0.40	1.20	0.72	3.61	4.92	5.36	3.59	6.44	0.80	0.20	1.30	0.60	29.14
Nesbit	.....	.....	.....	.....	2.51	2.58	0.81	1.92	0.72	0.13	1.14	0.03	.....
Norfolk	0.20	0.36	0.90	3.80	3.43	7.65	0.72	4.19	1.84	0.04	0.71	T.	23.84
North Loup	.....	0.75	0.35	3.44	3.09	5.79	0.72	4.98	2.10	0.40	1.16	0.05	.....
*North Platte	0.14	0.84	0.09	1.93	2.38	4.35	1.08	2.13	0.48	0.09	0.96	0.11	14.58
Oakdale	0.20	0.34	1.50	3.81	3.62	5.01	0.38	5.07	3.06	0.05	0.79	0.01	23.84
Odell	0.20	1.61	0.21	0.87	1.09	2.50	0.97	8.59	1.31	0.27	1.61	0.23	18.86
*Omaha	0.35	0.62	0.99	3.56	1.11	4.31	1.38	7.18	0.90	0.07	1.06	0.16	21.69
Omaha	0.30	0.55	0.90	3.65	1.38	4.74	1.55	6.72	0.74	0.06	1.16	0.25	22.00

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Nebraska—Continued.													
O'Neill	0.25	0.18	1.75	6.72	2.29	6.36	0.86	2.88	2.63	T.	0.55	0.10	24.57
Ord	.....	.....	.....	.....	.....	.....	1.14	2.43	3.17	0.56	1.51	0.07	.....
Osceola	.....	.....	.....	.....	.....	.....	.....	4.40	2.00	0.27	0.85	T.	.....
Ough	0.40	0.96	T.	0.84	3.27	2.64	5.75	1.50	0.25	0.00	0.70	0.40	16.71
Palmer	0.30	1.30	0.85	2.25	4.40	5.20	1.25	5.00	2.30	0.10	0.80	0.20	23.95
*Plattsmouth	0.50	0.51	0.66	3.44	1.54	5.70	2.28	7.24	1.44	0.12	1.60	0.26	25.29
Potter	.....	.....	.....	.....	.....	1.91	2.03	0.10	0.12	T.	0.35	0.60	.....
Ravenna	0.31	1.56	0.42	2.28	2.05	5.05	1.16	3.09	2.62	0.40	1.14	0.18	20.26
Redcloud	0.32	1.57	0.04	0.83	1.10	4.18	4.30	4.47	0.71	0.78	0.75	0.17	19.22
Republican	.....	0.80	.....	1.65	5.11	5.47	3.30	1.51	0.50	0.20	1.00	0.12	.....
Rulo	0.55	0.90	0.75	2.09	1.48	4.04	5.36	.....	0.39	0.00	0.68	1.34	.....
St. Paul	.....	.....	.....	.....	.....	.....	1.63	4.12	1.66	0.30	0.79	0.05	.....
Salem	0.72	1.85	0.32	6.00	3.35	2.56	2.81	9.65	.....	0.24	1.42	0.42	.....
Santee Agency	0.36	0.37	1.75	3.10	2.19	4.98	1.89	1.80	3.47	0.11	1.16	0.01	21.19
Schuyler	0.40	0.55	0.10	4.40	3.23	4.65	0.79	4.42	3.07	0.05	0.62	0.11	22.39
Seneca	0.20	0.55	[1]0.90	1.30	2.04	4.60	0.34	0.94	0.25	0.00	0.41	0.16	11.69
Seward	0.20	1.15	0.21	1.29	1.49	5.35	2.26	5.19	1.22	0.15	1.38	0.05	19.94
Spencer (near)	0.50	0.30	1.16	3.63	3.49	6.03	1.76	1.65	3.99	T.	1.03	0.02	23.56
Springfield	.....	.....	.....	.....	0.82	6.43	2.57	5.70	0.70	0.09	1.20	0.26	.....
Springview	0.21	0.39	1.26	3.36	1.14	3.77	1.32	1.73	1.18	0.00	1.15	T.	15.51
Stanton	0.12	0.50	0.68	3.08	2.34	6.39	1.72	4.42	2.55	T.	0.83	T.	22.63
State Farm	.....	0.73	0.34	2.59	1.05	5.08	0.91	3.86	0.63	0.06	0.51	.....	.....
Strang	0.01	1.42	0.01	2.77	2.58	5.72	1.95	4.13	0.94	0.40	1.13	0.10	21.16
Stromsburg	.....	.....	.....	.....	.....	.....	.....	.....	.....	T.	0.75	.....	.....
Superior	0.15	1.08	T.	2.54	1.34	4.19	2.39	6.90	0.56	0.64	1.09	0.90	21.78
Sutton	0.06	1.84	0.37	2.88	2.55	6.53	4.70	7.99	1.72	0.47	1.28	.....	.....
Syracuse	0.01	0.78	0.67	3.22	2.11	4.57	1.80	2.65	0.82	0.06	0.94	T.	17.63
Tecumseh	0.00	1.00	1.25	4.87	2.21	5.06	3.13	6.03	0.98	0.24	1.03	0.26	26.06
Tekamah	0.39	0.80	1.40	3.50	1.90	5.60	3.38	4.70	2.20	0.00	1.30	0.05	25.22
Thedford	.....	.....	.....	.....	.....	3.91	0.60	1.65	0.65	T.	0.86	0.35	.....
Turlington	0.35	1.14	1.05	2.56	1.27	6.95	2.76	2.98	0.85	0.14	1.11	0.37	21.53
Valentine	0.62	0.95	1.36	3.34	0.83	2.53	0.54	0.48	1.25	0.88	0.00	0.10	12.93
Wakefield	0.16	0.32	0.50	3.35	2.08	7.60	2.33	2.82	3.24	0.07	0.93	0.07	23.47
Wallace	0.80	0.70	0.60	2.10	3.50	.....	.....	.....	.....	.....	.....	.....	.....
Weeping Water	0.71	0.67	1.13	3.34	0.97	6.81	2.32	3.04	0.79	0.11	1.11	0.09	21.09
Weston	.....	1.00	T.	1.22	1.34	4.95	0.61	5.90	0.95	0.00	0.75	.....	.....
Westpoint	0.04	0.43	.....	2.60	.....	.....	.....	.....	.....	.....	.....	.....	.....
Whitman	0.02	0.47	0.20	0.69	1.74	3.23	0.90	0.69	0.10	0.00	0.40	0.05	8.49
Wilber	0.15	1.32	0.10	1.38	2.22	7.11	1.36	6.62	0.83	0.22	1.02	T.	22.33
Wilcox	0.25	1.34	0.30	2.21	4.76	4.58	4.53	3.37	1.12	0.77	0.91	0.46	24.60
Wilsonville	0.15	0.73	0.02	3.88	3.62	5.13	3.39	2.29	1.25	0.38	1.05	0.20	22.09
Woodlawn	.....	.....	.....	.....	.....	.....	.....	2.98	0.55	0.12	0.71	0.10	.....
York	0.05	0.90	0.14	1.50	1.97	7.27	1.87	4.44	.....	0.00	1.21	T.	.....
Nevada.													
Austin	1.43	1.29	0.49	0.61	2.66	0.05	T.	0.14	T.	0.51	1.04	1.00	9.22
Battle Mountain	0.95	1.65	0.10	0.30	0.50	0.00	0.15	0.00	0.10	0.00	0.37	0.92	5.04
Belmont	1.62	1.86	1.72	0.47	0.86	0.19	T.	0.01	0.06	0.66	0.41	0.24	8.10
Beowawe	0.80	0.80	0.05	0.05	0.00	0.00	0.00	T.	T.	0.00	0.15	0.60	2.45
Candelaria	.....	[b]0.44	0.05	0.76	0.66	0.20	T.	T.	T.	0.30	0.10	0.15	.....
Carlin	0.86	1.10	0.45	.....	1.50	T.	T.	0.50	T.	T.	0.35	0.50	.....
*Carson City	5.06	1.90	0.41	0.29	0.62	0.07	0.00	0.03	0.16	0.76	0.86	1.40	11.56
Carson City[1]	4.59	1.96	0.32	0.40	0.73	0.02	T.	0.04	0.20	0.71	0.56	1.38	10.91
Cloverdale	.....	.....	.....	.....	.....	T.	.....	T.	T.	.....	0.30	0.30	.....
Clover Valley	1.19	1.40	1.23	0.12	0.52	0.00	0.10	0.60	0.21	0.05	1.32	0.80	7.54
Cortez	1.60	1.40	1.49	0.20	1.58	0.17	T.	T.	0.29	0.34	1.90	1.60	10.57
Cranes Ranch	0.76	0.73	0.89	0.50	0.77	0.10	T.	0.14	0.12	T.	1.05	1.08	6.14
Currant	.....	.....	.....	.....	.....	0.00	.....	.....	.....	0.26	1.42	0.20	.....
Darrough Ranch	.....	.....	.....	.....	.....	0.00	0.00	T.	T.	0.63	1.96	0.13	.....
Downeyville	0.15	1.40	0.06	0.70	1.80	0.13	T.	T.	T.	0.46	0.57	0.24	5.51
Edgewood	.....	1.70	1.49	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elko	1.75	0.95	0.15	0.10	0.45	T.	0.00	0.27	0.10	0.00	0.60	0.90	5.27
Elko (near)	1.41	0.60	0.32	0.10	1.50	T.	T.	1.60	0.95	T.	0.51	1.00	7.99
Ely	2.10	2.40	1.65	1.85	2.65	0.25	0.27	0.65	0.35	0.80	1.60	0.20	14.77
Empire Ranch	0.95	1.04	0.10	0.09	0.38	0.00	0.01	0.19	T.	0.19	0.79	0.25	3.99
Fenelon	2.12	1.15	1.15	0.21	0.47	0.05	0.00	0.30	0.32	T.	1.55	1.05	8.37
Genoa	6.65	0.45	0.40	0.25	0.50	0.00	0.00	.....	0.75	0.00	0.53	0.72	.....
Golconda	1.10	0.00	0.75	0.00	1.40	0.05	0.00	0.00	0.02	0.00	0.07	0.70	4.09
Goldhill	3.73	0.74	0.08	0.18	0.83	0.00	.....	.....	.....	.....	.....	1.15	.....
Halleck	1.95	0.90	0.29	0.81	0.61	0.24	T.	0.50	0.05	T.	0.75	1.04	6.64
Hamilton	*1.63	0.93	*3.45	0.43	1.99	1.40	0.04	.....	0.23	0.73	1.68	1.26	.....
Hawthorne	0.61	0.20	0.12	0.15	0.41	0.28	0.00	0.06	0.00	0.21	0.98	0.20	3.22
Hot Springs	1.02	0.80	0.05	0.00	0.35	0.00	T.	T.	T.	0.00	0.00	0.20	2.42
Humboldt	1.08	0.75	0.30	0.55	1.45	0.00	T.	0.00	T.	T.	T.	0.40	4.53
Lewers Ranch	7.92	3.08	1.22	0.98	1.56	0.21	T.	0.10	1.95	0.26	1.01	3.07	21.36
Los Vegas	.....	.....	.....	.....	.....	0.00	T.	0.00	0.00	0.39	0.12	0.00	.....
Lovelock	2.30	0.94	0.00	0.13	0.60	0.00	0.00	0.00	T.	T.	0.00	0.55	4.52
Marlette Lake	9.10	4.75	3.49	0.95	1.92	0.00	T.	.....	.....	.....	.....	.....	.....
Osceola	1.97	1.85	1.00	0.56	0.45	0.25	0.12	0.18	0.42	0.91	0.56	0.30	8.57
Palisade	1.20	1.40	0.60	0.18	0.00	0.00	0.00	0.00	0.25	0.00	0.70	0.80	5.13
Palmetto	5.64	1.20	1.20	0.75	1.30	0.75	0.21	0.01	0.10	0.80	0.45	T.	12.41
Paradise Valley	2.41	1.22	0.48	0.70	1.10	0.28	0.46	T.	.....	.....	.....	.....	.....
Reese River	.....	.....	.....	.....	.....	0.10	.....	.....	0.06	.....	.....	.....	.....
Reno	1.90	0.35	0.00	0.23	0.00	0.00	0.00	0.15	0.50	0.10	0.20	0.65	4.08
Reno State University	2.81	.....	0.07	0.39	0.57	T.	0.00	0.02	0.24	0.10	0.17	0.83	.....
Ruby Valley	1.14	1.47	0.65	0.12	0.51	0.02	T.	0.06	0.07	0.13	0.61	1.64	6.42
St. Clair	1.06	0.94	0.06	0.10	1.08	0.05	0.00	T.	0.00	0.52	0.21	0.20	4.22
St. Thomas	.....	.....	.....	T.	T.	T.	T.	T.	T.	T.	0.43	0.00	.....

[1] Prof. C. W. Friend.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Nevada—Continued.													
San Antonio	.....	.....	.....	.....	.....	.....	.....	.....	T.	0.61	0.30	0.01	.....
Silverpeak	.....	.....	.....	.....	.....	.....	.....	0.06	0.00	0.37	0.33	0.30	.....
Stofiel	3.73	1.38	1.45	0.62	1.59	0.18	0.21	0.59	0.41	0.12	1.17	2.52	13.97
Sunnyside	1.19	1.12	2.13	0.45	1.21	T.	[8]0.02	0.09	0.00	1.33	1.05	.....	.....
Tecoma	0.92	0.85	0.15	.....	0.43	0.10	T.	T.	T.	T.	0.35	0.32	.....
Tosano	0.95	1.40	0.00	0.00	0.23	0.00	0.00	0.20	0.17	0.15	0.20	0.85	4.15
Tybo	0.94	0.41	1.89	T.	1.35	0.12	0.00	0.05	T.	1.02	0.34	0.21	6.33
Verdi	10.06	2.20	0.73	1.06	1.10	0.55	0.00	0.07	1.97	0.00	0.76	2.47	20.97
Wadsworth	0.75	2.74	.....	0.20	1.06	T.	0.05	0.05	0.05	0.05	0.45	1.10	.....
Wells	2.05	1.20	1.73	0.14	0.51	0.36	0.19	0.59	0.32	0.03	0.53	0.92	8.57
*Winnemucca	1.40	0.98	0.45	0.88	1.43	0.04	0.25	0.10	0.09	T.	0.33	0.89	6.84
Yerington	1.11	0.57	0.18	0.25	0.14	T.	.....	.....	0.00	0.00	0.50	.....	.....
New Hampshire.													
Alstead	2.88	1.29	2.20	4.84	1.14	2.18	3.37	1.98	3.66	2.39	5.30	3.20	34.43
Belmont	2.80	0.57	2.20	5.41	2.01	2.94	4.00	3.72	3.41	2.87	5.77	4.48	40.18
Berlin Mills	2.86	0.89	1.36	5.93	4.00	2.32	2.97	4.30	2.19	1.71	5.38	4.48	38.39
Bethlehem	1.06	0.65	1.11	2.90	3.99	2.72	2.70	4.47	3.23	1.36	5.98	4.06	34.23
Brookline	3.54	0.60	2.72	5.38	2.18	2.63	5.72	2.76	3.12	6.03	6.51	4.09	45.28
Concord	3.25	0.56	2.27	4.52	2.12	1.98	3.52	3.86	2.34	4.05	5.59	4.01	38.07
Dublin	3.41	1.36	1.73	.....	.....	3.97	3.95	4.62	4.20	0.70	6.54	4.43	.....
Durham	.....	.....	.....	.....	.....	.....	.....	.....	2.01	4.47	7.35	2.76	.....
Grafton	1.98	0.74	0.95	5.71	2.60	4.09	4.22	3.90	2.80	2.85	5.49	4.14	39.47
Hanover	1.96	0.85	1.99	4.26	1.69	2.77	2.63	3.40	2.56	1.42	5.17	3.05	31.75
Keene	2.56	0.93	1.89	4.51	1.76	3.38	4.62	3.91	2.80	3.05	5.34	3.10	37.85
Lakeport	3.05	0.65	2.11	5.25	2.05	2.54	3.58	4.25	3.70	3.80	4.35	4.31	39.64
Lancaster	1.88	1.20	0.82	4.02	3.19	2.76	3.02	3.88	.....	.....	.....	.....	.....
Littleton	1.51	0.78	1.68	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mine Falls	3.24	0.46	2.68	4.44	2.40	2.82	2.90	3.25	2.55	6.68	6.10	2.75	40.27
Nashua	3.00	1.03	2.71	3.88	3.12	2.29	3.48	3.36	2.46	6.50	5.93	3.16	40.92
Newton	3.05	0.25	2.44	3.60	1.49	1.65	5.44	2.69	2.81	7.45	6.11	2.32	39.30
North Conway	2.00	1.10	0.80	10.03	2.85	2.35	2.25	2.68	2.25	1.90	6.23	6.88	41.37
Pennichuck Station	2.73	1.05	2.53	4.05	2.92	2.42	3.46	3.19	2.33	5.80	6.59	2.66	39.73
Peterboro	3.04	1.30	2.19	4.40	2.31	2.64	4.70	2.67	2.99	6.52	6.10	3.58	42.44
Plymouth	2.47	0.30	1.66	7.21	2.46	3.75	3.12	3.99	3.53	2.00	5.26	5.52	41.27
Sanbornton	1.96	0.32	1.28	5.34	3.86	2.38	3.82	4.40	3.33	2.62	5.58	3.30	38.19
Stratford	0.76	0.63	1.18	4.31	3.62	4.47	3.43	4.40	2.19	2.09	5.64	3.40	36.12
Weirs Bridge	3.96	1.19	2.03	5.36	1.98	3.20	3.50	3.94	3.25	3.32	4.78	3.78	40.29
West Milan	2.93	1.42	1.47	3.87	3.76	4.01	2.82	3.67	1.97	1.56	5.64	3.96	37.08
Wolfboro	2.34	0.15	1.88	5.59	2.63	1.50	3.55	4.80	3.81	2.05	5.64	3.50	37.44
New Jersey.													
Asbury Park	4.37	1.11	3.57	6.63	2.00	1.35	5.71	0.99	2.13	3.98	2.86	2.43	37.13
Atlantic City	3.12	1.15	3.18	4.24	3.21	0.74	4.85	0.16	0.60	1.79	2.95	2.77	28.76
Barnegat Park	4.45	1.40	3.52	4.92	3.50	2.25	5.10	0.68	0.58	1.62	3.21	1.71	32.94
Bayonne	5.00	1.41	3.09	3.93	2.71	2.54	4.62	5.06	1.25	4.54	4.60	2.36	41.11
Beachhaven	3.66	1.03	3.63	4.93	3.70	1.99	5.80	0.55	0.76	2.02	3.61	2.80	34.48
Belvidere	2.84	1.73	2.14	4.28	2.41	4.62	4.48	3.32	0.76	5.01	2.31	3.32	37.22
Beverly	4.67	1.73	3.79	4.84	2.35	3.90	3.93	1.89	0.48	3.71	2.55	2.00	35.84
Billingsport	3.77	.....	2.47	6.65	2.44	5.14	3.59	0.78	0.89	3.86	2.88	2.68	.....
Blairstown	2.48	0.91	.....	2.63	2.16	2.83	5.82	2.75	0.92	3.91	2.38	.....	.....
Boonton	4.52	0.57	2.43	5.43	3.51	3.59	4.09	2.36	0.98	3.89	3.66	.....	.....
Bridgeton	4.75	2.07	4.00	6.25	3.07	5.98	1.53	0.71	1.25	3.38	2.43	1.92	37.34
Camden	4.58	1.33	.....	5.08	2.34	4.00	2.54	0.22	0.59	3.34	2.46	2.04	.....
Cape May	3.51	1.68	3.34	3.68	2.85	0.93	2.84	0.86	0.49	2.41	2.31	2.33	27.23
Cape May C. H.	4.23	1.45	3.95	5.24	3.31	0.97	2.49	2.20	0.73	2.24	2.56	2.43	31.80
Charlotteburg	4.01	0.79	2.05	5.76	2.85	2.34	5.80	2.38	1.03	4.08	4.86	3.89	39.84
Chester	4.55	1.15	2.28	5.09	3.55	3.20	6.12	4.66	1.08	5.53	2.53	3.60	43.34
Deckertown	.....	1.24	1.77	3.47	1.98	2.01	4.12	3.91	1.18	3.95	2.62	3.28	.....
Dover	4.04	0.77	2.11	5.22	2.66	3.94	3.97	2.37	0.64	4.16	2.47	2.98	35.33
Egg Harbor City	4.44	1.12	2.90	6.01	3.43	2.79	4.16	0.52	1.01	2.63	2.73	2.79	34.53
Elizabeth	5.68	1.04	2.86	4.73	2.46	2.55	5.97	4.80	0.33	4.49	3.33	3.07	41.51
Englewood	.....	.....	.....	.....	2.55	2.77	5.34	3.45	1.10	4.65	4.38	5.42	.....
Franklin Furnace	4.35	1.72	2.10	3.77	3.37	3.75	3.53	2.63	1.98	4.30	2.13	3.28	36.91
Freehold	5.03	1.20	4.23	5.26	3.37	2.20	5.16	2.83	1.44	1.39	5.10	3.39	40.60
Friesburg	4.45	1.29	3.69	5.34	3.45	5.23	2.11	1.29	0.87	3.05	2.97	1.72	35.46
Gillette	4.92	1.71	2.42	4.30	2.97	3.74	4.53	4.06	0.95	3.31	2.75	2.97	38.63
Hammonton	4.97	1.28	3.71	5.57	3.45	.....	4.89	1.20	0.46	2.27	3.95	2.75	.....
Hanover	4.91	0.82	2.89	3.56	2.51	2.68	4.65	3.90	1.17	3.72	3.40	2.54	36.75
Hightstown	4.09	1.20	3.88	4.22	2.87	3.23	3.85	1.31	0.34	4.02	3.63	2.52	35.66
Imlaystown	3.60	0.73	4.66	3.91	3.25	2.52	3.81	0.66	1.47	2.63	2.74	2.17	32.15
Junction	4.54	1.50	2.07	7.75	2.14	2.79	4.01	33.36	0.63	4.27	1.56	2.44	37.06
Lambertville	4.77	1.60	3.28	4.65	2.32	5.94	4.02	4.08	1.17	4.81	1.75	.....	.....
Millville	4.42	1.33	3.59	6.86	3.41	2.84	2.68	1.73	1.06	2.32	2.51	2.35	35.10
Moorestown	4.80	0.94	3.97	5.12	2.64	5.05	2.94	0.63	0.47	4.27	2.87	2.20	35.90
Newark[1]	5.20	0.84	2.73	4.28	2.98	3.80	4.67	3.92	0.64	4.21	3.84	2.92	40.03
Newark[2]	5.55	0.88	2.75	4.49	2.84	3.91	4.72	3.41	0.64	4.64	3.74	2.67	40.24
*New Brunswick	5.20	0.95	3.21	4.59	2.72	3.03	4.24	4.40	1.34	3.69	3.93	2.64	39.94
New Brunswick[3]	5.44	0.97	3.26	4.61	2.82	2.79	4.26	4.50	1.22	3.90	3.41	2.68	39.86
New Brunswick[4]	5.13	0.65	3.14	4.71	2.83	3.10	4.10	4.42	1.36	3.69	3.55	2.57	39.25
Newton	3.76	1.44	2.51	3.75	2.52	.....	3.47	3.33	0.91	4.39	2.06	2.48	.....
Ocean City	3.66	2.30	3.34	5.06	3.14	1.35	2.25	0.16	2.00	1.82	3.37	2.88	31.33
Oceanic	4.99	1.23	3.96	5.09	2.60	2.86	4.61	3.10	2.23	3.52	3.25	2.24	39.68
Paterson	5.50	1.24	2.42	4.58	1.88	3.78	4.43	4.37	0.97	5.21	3.27	3.77	41.42
Perth Amboy	5.62	.....	2.45	4.07	2.75	3.74	5.11	3.75	0.65	4.06	3.16	2.68	.....
Plainfield	5.02	0.98	3.15	4.31	2.76	3.53	5.64	2.66	0.79	4.72	3.27	2.62	38.45

[1] F. W. Ricord. [2] G. C. Sonn. [3] C. V. Meyers. [4] Mrs. G. H. Cook.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
New Jersey—Continued.													
Pochunk Mountain	4.10	1.45	2.08	4.36	3.53	.....	.....	.....	.....	.....	.....	.....	.....
Rancocas	4.30	0.89	4.09	4.56	2.37	3.53	3.51	0.87	0.22	3.93	2.44	1.91	32.02
Rivervale	5.01	1.30	2.64	4.11	1.66	2.65	6.70	3.79	1.16	5.03	3.74	3.41	41.20
Salem	4.55	2.09	4.08	5.13	3.58	4.74	2.96	.....	.....	.....	.....	.....	.....
Somerville	3.48	1.03	3.19	4.46	3.22	3.36	4.67	2.91	0.70	3.89	3.32	2.37	36.60
South Orange	5.63	1.30	2.60	4.35	2.99	4.25	5.03	4.54	0.97	3.61	3.55	2.66	41.48
Toms River	5.61	1.43	4.46	5.74	2.91	3.13	7.73	0.35	2.71	2.50	4.57	2.55	43.69
Trenton	5.26	1.76	3.67	5.56	2.81	2.56	3.42	2.19	0.86	3.43	3.82	2.00	37.34
Vineland	5.53	1.93	4.08	5.39	3.95	4.37	2.93	0.79	1.65	2.15	3.36	2.22	38.35
Whiting	4.70	0.55	4.00	5.34	2.15	3.23	4.95	1.05	2.36	2.73	2.86	2.51	36.43
Woodbine	4.33	2.31	3.99	5.27	3.42	1.94	2.90	0.02	1.24	2.79	2.89	2.97	34.07
New Mexico.													
Albert	0.22	0.93	0.08	0.10	3.79	2.35	11.51	2.24	0.00	1.19	0.99	0.20	23.60
Albuquerque	1.29	0.60	0.07	0.08	1.73	0.34	2.78	0.80	0.18	0.74	0.85	0.32	9.78
Alma	1.21	0.33	0.26	0.04	0.49	0.51	3.25	2.03	3.27	1.99	2.65	0.48	16.51
Aztec	0.85	0.35	0.10	0.00	1.07	0.36	0.54	0.43	0.13	0.51	2.03	T.	6.37
Bernalillo	.....	.....	.....	.....	.....	0.22	2.55	1.54	0.02	1.05	1.20	0.21	.....
Bloomfield	0.74	0.55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chama	5.30	2.70	2.35	.....	2.28	.....	2.20	3.05	0.45	1.27	3.45	2.90	.....
Deming	0.50	0.15	0.00	T.	0.58	0.25	3.76	0.35	0.00	0.15	0.90	0.15	6.79
Downs Ranch	.....	.....	.....	.....	.....	.....	.....	3.05	4.20	1.96	0.66	.....	.....
East Las Vegas	1.00	1.85	0.30	0.52	4.02	1.98	6.84	5.32	T.	1.12	0.88	0.82	24.65
Eddy	0.65	0.19	0.00	0.10	2.11	0.57	4.50	2.09	0.31	1.80	0.56	0.04	12.92
Engle	0.35	0.50	0.00	0.02	0.10	0.76	3.91	2.31	0.25	0.21	0.70	T.	9.11
Espanola	.....	.....	.....	.....	.....	0.58	3.01	0.84	0.36	1.39	0.96	0.81	.....
Estalina Springs	0.66	0.90	0.13	0.19	1.98	0.24	7.24	1.78	0.42	0.79	1.44	0.21	15.98
Fort Bayard	1.25	0.80	0.08	0.00	0.80	0.33	6.25	2.09	0.85	0.40	1.40	0.20	14.45
Fort Stanton	0.47	1.02	0.11	T.	1.06	1.45	6.03	1.61	0.65	0.78	1.24	.....	.....
Fort Union	.....	.....	.....	.....	3.34	1.31	7.12	2.72	.....	1.17	0.38	0.40	.....
Fort Wingate	2.05	0.70	T.	0.30	1.80	0.57	1.23	2.70	0.19	1.80	3.60	2.20	17.14
Fresnal	0.88	1.25	T.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Galisteo	1.20	0.20	0.00	0.00	2.21	0.02	4.54	2.13	0.01	1.48	2.10	0.30	14.29
Gallinas Spring	0.56	1.00	0.00	0.22	4.29	0.11	10.05	3.10	0.11	1.00	0.70	0.29	21.43
Gila	2.14	0.64	0.21	T.	0.38	T.	1.62	3.14	1.10	0.57	2.19	0.42	12.41
Lascruces	0.45	0.24	0.01	0.00	0.52	0.10	3.03	2.19	0.96	1.20	0.45	0.32	9.47
Lordsburg	0.20	0.00	T.	0.00	0.40	0.40	1.22	0.45	0.84	.....	1.38	0.10	.....
Los Lunas	0.95	0.60	0.00	0.25	2.50	0.50	3.45	0.95	T.	1.60	1.40	0.10	12.30
Lower Penasco	.....	.....	.....	.....	.....	4.12	7.62	3.92	1.93	1.88	.....	.....	.....
Monero	1.99	0.90	0.58	0.03	4.37	1.25	2.66	2.53	0.22	0.94	1.52	1.02	18.01
Ocate	.....	.....	T.	0.58	6.03	2.14	7.24	3.89	0.45	0.96	0.75	1.14	.....
Olio	.....	0.05	T.	0.00	0.51	0.60	.....	0.16	T.	.....	0.51	T.	.....
Pecos	1.52	2.09	0.66	0.31	.....	.....	.....	3.19	0.20	1.08	2.08	0.92	.....
Pojuaque	.....	0.15	0.25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Puerto de Luna	.....	.....	.....	T.	3.41	0.24	4.37	4.67	0.10	0.67	0.83	0.35	.....
Raton	0.07	0.20	T.	0.40	2.65	1.82	4.97	0.12	0.00	0.03	0.27	0.60	11.13
Rincon	0.35	0.80	T.	T.	0.52	0.31	4.63	2.71	1.33	0.58	0.54	0.10	11.87
Roswell	0.40	0.48	0.02	0.14	2.31	1.28	4.45	2.99	1.09	2.11	0.88	0.07	16.22
San Marcial	0.15	0.36	0.00	0.06	1.35	1.00	2.60	4.26	0.32	0.82	1.16	0.06	12.08
*Santa Fe	1.51	1.20	0.54	0.01	3.46	0.99	4.78	3.64	0.09	1.75	1.18	1.09	20.24
Socorro	.....	.....	.....	T.	1.13	1.26	4.09	.....	.....	.....	.....	.....	.....
Springer	T.	0.25	T.	0.01	3.00	.....	1.53	.....	0.00	.....	.....	.....	.....
Taos	.....	.....	0.26	0.21	3.60	1.18	3.84	2.20	0.26	1.31	1.40	1.60	.....
New York.													
Addison	3.11	1.12	0.88	1.31	2.11	4.15	2.02	3.82	1.22	0.80	2.44	2.92	25.90
Akron	3.37	1.12	1.30	2.06	1.89	2.48	2.92	2.82	3.17	1.74	3.72	3.70	30.29
*Albany	1.65	1.63	1.31	3.09	1.72	1.72	4.02	3.14	1.80	2.35	4.78	2.59	29.80
Alfred	3.39	0.95	1.30	1.61	2.90	4.69	2.60	4.27	0.95	*1.13	3.34	4.03	31.16
Angelica	3.35	1.38	2.86	2.72	2.01	4.10	2.40	3.96	1.92	1.32	3.46	4.02	33.50
Appleton	3.01	0.75	0.80	1.79	2.23	1.03	1.15	2.20	3.53	1.56	3.47	3.71	25.23
Arcade	3.79	0.99	1.09	1.51	1.90	4.04	2.38	5.71	1.61	2.26	2.77	3.92	31.97
Atlanta	0.94	2.77	1.65	1.62	2.20	.....	.....	5.80	1.33	1.18	2.87	3.22	.....
Avon	.....	.....	.....	.....	.....	.....	.....	.....	1.81	0.46	3.58	2.58	.....
Baldwinsville	3.26	4.12	1.07	1.80	2.39	2.09	3.22	2.48	2.63	1.35	3.13	5.39	32.93
Bedford	4.09	1.07	2.33	5.37	1.82	4.57	4.67	3.68	1.98	4.10	3.80	3.66	41.14
Binghamton	3.18	1.60	1.58	2.29	2.92	2.05	4.06	3.39	2.11	0.82	2.94	3.63	30.57
Bloomville	.....	.....	.....	.....	.....	.....	4.05	3.15	2.42	2.54	6.46	3.48	.....
Bovina Center	3.44	1.84	1.44	.....	2.32	2.91	.....	.....	.....	.....	.....	.....	.....
Boyds Corners	.....	.....	.....	.....	.....	.....	.....	.....	1.06	3.55	2.98	4.85	.....
Brentwood	6.05	1.40	2.90	4.20	3.70	1.50	6.00	3.20	1.40	.....	5.20	2.45	.....
Brookfield	1.70	2.25	1.37	2.14	2.76	1.90	1.33	3.43	1.92	0.66	3.11	4.73	27.30
Brooklyn	6.18	1.65	3.37	4.06	2.54	3.06	4.72	3.62	1.37	4.16	4.79	2.55	42.07
*Buffalo	4.48	1.46	1.58	1.97	2.19	1.52	1.85	2.86	2.59	1.92	4.34	5.26	32.02
Canton	2.30	2.55	2.00	2.47	1.67	2.34	2.96	5.14	5.03	0.53	5.42	6.31	38.72
Carmel	.....	.....	.....	.....	.....	.....	.....	.....	0.81	3.60	4.95	4.62	.....
Cherry Creek	4.17	2.29	1.96	2.65	2.58	4.70	1.83	6.43	2.10	2.95	5.92	4.97	42.55
Cooperstown	2.34	1.43	1.93	2.89	2.44	2.18	3.80	7.15	2.86	2.17	3.65	3.89	36.73
Cortland	2.95	0.97	1.36	1.62	2.60	2.91	4.53	5.55	2.36	0.85	3.05	3.86	32.61
De Kalb Junction	2.50	1.01	1.16	2.63	2.36	1.86	3.68	4.84	4.50	0.82	5.34	5.38	36.10
Dempster	1.80	1.48	1.22	2.34	3.04	2.11	2.54	3.77	2.67	2.45	4.08	4.82	32.32
Deposit	1.90	1.75	2.10	0.79	2.60	2.76	1.95	4.32	2.30	1.17	3.77	2.60	28.01
Eagle Mills	.....	.....	.....	.....	.....	.....	.....	.....	2.18	2.42	.....	.....	.....
Eden	10.20	2.95	2.85	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elmira	2.70	1.20	1.37	1.56	3.03	3.51	2.34	4.04	1.89	0.78	1.25	2.70	26.37
Fleming	.....	.....	0.60	1.40	3.50	3.11	4.11	3.03	1.87	1.08	2.90	3.26	.....
Fort Niagara	1.96	0.92	0.73	1.73	2.50	1.09	1.11	1.69	2.78	1.41	2.89	3.63	22.44
Friendship	3.93	1.34	1.01	1.96	2.39	4.91	2.72	3.74	3.02	1.44	3.44	3.35	32.35

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
New York—Continued.													
Fulton	2.08	6.56	1.12	1.54	2.32	3.55	0.93	2.88	2.13	2.86	3.71	2.70	32.33
Glens Falls	2.52	1.47	2.05	6.09	1.51	2.87	2.85	4.98	2.18	1.17	4.82	3.73	36.24
Gloversville	2.86	1.19	3.21	4.48	2.05	3.19	3.41	5.15	1.90	1.73	4.83	2.91	36.91
Hamilton	2.22	4.13	2.28	2.48	2.50	1.60	2.62	4.14	2.07	1.58	2.62	3.54	31.78
Haskinville	3.01	.....	.....	.....	.....	.....	3.14	4.09	2.19	1.56	3.35	3.13	.....
Honeymead Brook	3.11	1.55	1.78	4.25	2.39	3.83	2.44	1.73	2.87	4.88	3.61	3.30	35.74
Humphrey	3.25	1.67	1.54	1.31	1.46	2.83	3.52	3.71	1.90	2.22	4.47	2.82	30.70
Ithaca	2.18	0.92	1.26	1.47	3.60	3.37	1.96	4.12	2.03	0.99	2.69	4.07	28.66
Kings Station	2.16	1.20	2.01	6.52	2.26	3.40	3.65	3.86	2.27	1.46	3.23	4.12	36.14
Lebanon Springs	3.20	1.61	1.81	3.99	2.03	3.22	4.05	2.84	2.83	3.40	4.89	4.48	38.35
Leroy	5.82	4.55	2.40	2.73	3.05	3.63	1.93	1.65	1.90	2.04	2.89	.....	.....
Lockport	3.52	2.18	1.56	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lowville	3.22	1.68	1.42	2.00	2.25	1.69	2.28	3.93	2.63	1.54	4.64	4.94	32.22
Lyons	2.12	2.17	0.90	1.54	3.25	3.39	2.59	3.69	1.67	0.95	2.76	3.74	28.77
Madison Barracks	3.96	1.10	2.16	1.53	2.66	1.77	2.93	3.05	2.07	1.77	4.12	2.96	30.06
Malone	2.18	2.94	1.35	2.71	2.82	3.09	3.08	7.75	3.31	0.62	4.84	4.22	38.91
Manhattan Beach	.....	0.80	2.90	2.90	2.22	2.37	3.00	2.64	1.03	1.43	4.49	1.37	.....
Massena	.....	.....	.....	1.00	.....	.....	.....	5.82	3.55	0.15	.....	.....	.....
Middletown	.....	.....	.....	4.28	.....	.....	.....	.....	.....	6.11	5.65	1.68	.....
Minnewaska	3.40	0.60	1.60	7.45	3.70	3.31	1.90	.....	0.93	.....	.....	.....	.....
Mount Morris	.....	.....	.....	1.62	1.48	2.67	1.74	3.41	1.84	0.84	2.60	2.50	.....
Newark Valley	2.67	0.78	1.07	2.70	3.23	2.59	3.38	4.13	2.13	1.14	2.49	2.43	28.74
New Lisbon	2.03	1.98	1.41	3.21	2.50	2.00	2.53	5.76	2.16	1.45	2.98	4.04	32.05
*New York	5.62	0.82	2.80	2.92	2.04	2.57	4.40	4.12	0.95	4.04	3.58	1.87	35.73
North Hammond	3.58	1.18	1.41	2.70	1.41	0.69	2.94	3.48	2.70	0.76	5.48	4.72	31.05
Number Four	4.78	2.57	2.59	2.79	3.17	2.46	4.15	5.82	6.42	2.46	6.39	5.32	48.92
Ogdensburg	.....	1.90	.....	2.61	3.11	0.97	.....	2.61	3.25	0.93	.....	5.90	.....
Oneonta	3.47	1.29	.....	3.33	2.23	2.37	3.20	3.77	2.62	1.06	3.76	3.87	.....
*Oswego	2.64	2.30	1.66	2.07	3.25	1.20	1.67	3.38	2.25	2.39	4.44	5.23	32.48
Oxford	3.46	2.00	2.13	2.76	2.78	1.74	2.48	4.59	2.64	1.06	3.95	4.23	33.82
Palermo	1.96	2.05	0.88	0.52	2.90	1.92	2.24	3.61	2.20	2.59	2.83	6.01	29.71
Perry City	2.82	1.40	2.06	1.37	2.49	3.54	2.72	4.67	2.00	0.91	4.16	3.08	31.22
Phœnix	3.37	3.49	1.01	1.77	2.42	2.01	2.59	2.67	2.28	1.11	3.83	4.49	31.04
Pine City	1.01	2.30	1.43	1.26	3.01	2.81	2.05	3.98	1.96	0.38	2.07	3.28	25.54
Pittsford	.....	.....	.....	.....	.....	.....	2.33	3.67	2.45	1.14	2.87	3.41	.....
Plattsburg Barracks	2.07	0.70	0.74	2.79	1.97	3.85	2.15	4.30	2.85	0.45	5.13	2.40	29.40
Port Jervis	3.77	1.45	1.69	4.67	3.04	2.71	3.20	8.14	1.48	5.79	2.90	3.33	42.17
Potsdam	4.50	2.40	1.88	1.17	2.60	2.59	3.34	6.72	1.68	0.73	1.67	2.69	31.97
Poughkeepsie	3.39	0.90	1.71	3.54	1.99	1.53	2.24	3.49	1.34	4.42	2.86	2.92	30.33
Remsen	.....	.....	.....	.....	.....	.....	.....	.....	3.14	2.43	5.85	.....	.....
Ridgeway	.....	.....	.....	.....	.....	.....	.....	.....	3.21	.....	3.53	3.18	.....
*Rochester	3.12	2.50	1.56	2.04	3.44	1.56	1.88	3.40	2.38	1.38	3.39	3.77	30.42
Rome	1.89	2.88	0.89	2.55	2.61	2.05	3.35	3.49	2.51	2.01	4.32	4.15	32.70
Romulus	1.81	0.56	1.00	1.37	3.40	3.32	3.20	3.90	1.52	1.15	3.80	3.11	28.14
Rose	.....	.....	.....	.....	3.20	3.07	2.58	3.17	2.37	1.35	3.80	5.00	.....
Saranac Lake	1.84	1.22	1.37	2.30	4.34	3.25	2.46	4.61	3.56	1.68	4.43	3.49	34.55
Scottsville	.....	.....	.....	1.78	3.25	1.88	2.10	4.83	2.01	1.26	.....	.....	.....
Setauket	5.40	0.91	3.08	3.01	2.09	2.63	3.41	5.02	2.41	3.37	5.40	2.48	39.21
Sherwood	1.25	1.42	1.21	0.72	2.41	3.23	3.64	5.36	1.58	1.47	2.90	4.57	29.81
Skaneateles	2.79	2.86	2.23	1.86	2.58	2.04	2.90	4.28	1.91	0.82	3.46	3.92	31.65
South Canisteo	3.22	0.97	1.63	1.49	2.79	4.75	2.77	3.88	1.15	1.17	3.39	4.34	31.65
S. E. Reservoir	.....	.....	.....	.....	.....	.....	.....	.....	0.78	3.74	5.06	4.12	.....
South Kortright	1.76	1.40	1.69	3.31	2.10	1.53	3.11	4.68	2.69	2.71	3.70	3.23	31.91
Stillwater	2.69	1.59	2.53	4.39	1.42	3.52	4.71	.....	.....	.....	.....	.....	.....
Turin	5.51	3.21	3.23	0.87	3.32	1.64	2.85	4.42	3.99	3.71	5.27	4.28	42.30
Varysburg	2.10	1.16	1.73	2.44	1.88	3.51	2.60	3.56	1.89	2.13	3.07	4.72	30.79
Wappingers Falls	3.64	1.23	1.23	4.17	3.88	1.50	2.45	2.96	1.20	5.02	4.00	3.37	34.65
Warwick	2.76	0.68	1.59	4.33	3.16	3.90	3.82	3.30	0.72	4.30	3.28	2.21	34.05
Watertown	3.65	1.42	1.57	2.06	2.80	1.94	3.54	4.58	4.43	.....	.....	.....	.....
Waverly	2.56	1.15	1.60	1.83	2.89	2.98	1.58	3.67	1.63	0.85	1.80	3.71	26.25
Wedgwood	2.30	0.85	1.00	1.56	2.71	4.03	2.31	8.27	1.32	1.02	3.37	3.51	32.24
West Chazy	1.80	1.13	1.18	2.85	3.54	.....	.....	.....	.....	.....	.....	.....	.....
Westpoint	5.49	1.60	1.10	6.81	3.55	2.63	6.86	3.42	1.16	4.22	5.58	4.20	46.62
Willetspoint	5.37	0.85	2.55	4.09	2.77	3.22	4.85	4.55	1.45	3.53	3.16	2.31	38.70
North Carolina.													
Armour	.....	.....	.....	4.32	2.77	.....	.....	.....	.....	.....	.....	.....	.....
*Asheville	4.92	1.70	3.95	4.04	4.90	2.33	2.32	5.03	0.85	0.21	2.78	3.78	36.81
Bailey	5.69	2.02	3.57	4.99	4.93	4.12	5.07	.....	1.02	.....	.....	.....	.....
Bakersville	4.60	2.40	4.17	4.73	.....	3.35	3.86	5.57	.....	.....	.....	.....	.....
Blowing Rock	[6] 6.22	2.10	.....	4.54	1.82	0.94	.....	5.88	1.41	.....	.....	.....	.....
*Bryson City	7.87	2.54	6.45	3.97	5.08	3.03	5.47	6.56	0.46	2.24	2.42	3.87	49.96
*Chapelhill	3.90	2.33	5.12	11.42	3.99	4.60	3.19	4.48	0.62	1.13	4.67	3.63	54.06
*Charlotte	5.84	1.87	5.52	5.00	4.05	2.70	2.94	4.41	0.33	0.79	2.39	3.32	39.16
Currituck Inlet	4.57	2.95	5.18	4.98	2.40	2.80	5.90	5.25	0.05	2.39	2.88	.....	.....
Experimental Farm	6.61	1.90	5.79	7.87	4.11	4.70	7.03	[7] 3.53	0.51	2.21	3.65	.....	.....
Fairbluff	9.56	3.73	5.06	8.72	4.67	3.18	4.66	11.42	2.58	1.96	2.61	2.09	60.24
Falkland	4.82	3.63	5.79	9.87	5.30	2.45	7.12	7.30	1.12	2.48	2.77	3.46	56.11
*Fayetteville	7.67	2.41	6.07	9.21	4.12	1.89	5.61	6.56	2.47	2.50	2.21	2.30	53.02
Flatrock	.....	.....	.....	8.27	6.69	2.96	4.18	5.04	1.44	1.77	3.86	.....	.....
*Goldsboro	.....	.....	.....	8.86	4.11	2.92	3.22	7.71	3.96	1.40	.....	.....	.....
*Greensboro	4.38	.....	.....	.....	4.00	2.80	5.46	5.37	0.23	0.81	3.65	4.37	.....
Greenville	6.10	1.25	5.50	9.09	6.14	3.02	6.29	6.85	1.35	2.43	2.37	2.25	52.64
*Hatteras	6.14	3.73	7.14	7.72	7.61	4.05	7.62	5.32	5.89	2.84	7.78	3.44	69.28
Henderson	7.53	3.05	2.85	14.60	3.12	3.93	8.42	2.95	1.10	1.95	4.82	2.62	56.94
Highlands	9.00	2.36	3.53	14.84	6.94	6.46	4.41	8.70	1.06	2.83	4.15	5.64	69.92
Horse Cove	9.33	3.32	7.30	10.92	6.91	5.30	4.94	12.54	0.64	2.10	3.75	5.63	72.68
*Kittyhawk	5.94	3.50	6.01	4.92	3.16	3.23	6.50	2.49	0.05	2.15	5.88	2.55	46.38
Lenoir	6.07	2.00	4.52	5.85	5.13	1.69	5.65	7.41	1.56	1.11	2.22	3.85	47.06

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
North Carolina—Continued.													
Linville	6.62	2.30	6.05	9.60	7.79	3.49	5.24	6.89	2.55	1.21	2.53	8.94	63.21
Littleton	4.48	1.87	4.63	9.10	2.74	5.18	7.22	4.99	0.88	1.94	1.91	2.46	47.40
Louisburg	5.70	1.05	4.85	5.65	1.97	3.16	5.55	3.81	1.32	2.38	2.40	[b]2.34	40.18
*Lumberton	9.04	2.66	5.31	9.98	3.36	4.72	2.66	8.47	0.80	2.00	2.02	.....	.....
Lynn	7.47	1.94	6.58	7.62	6.70	2.93	4.85	11.06	1.33	1.17	3.36	3.46	58.47
Marion	5.05	2.25	5.00	4.45	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mocksville	5.71	1.66	4.97	5.12	4.30	4.78	4.53	3.67	1.09	0.50	3.11	3.67	43.11
Moncure	8.61	2.56	5.53	10.74	2.95	4.22	5.93	6.47	0.41	1.93	3.25	2.78	55.38
Morganton	3.64	2.20	2.43	5.49	3.72	2.54	2.42	3.99	2.68	0.70	1.24	3.32	34.37
Mountairy	5.65	1.28	4.75	5.37	3.67	4.99	4.28	5.27	0.70	1.40	[d]2.66	4.09	44.11
Mount Pleasant	6.74	2.25	5.82	6.33	2.93	5.00	4.12	4.97	1.79	1.35	2.18	4.24	47.72
*Murphy	.....	2.74	7.10	4.21	5.24	2.10	8.28	3.50	3.43	1.82	2.73	4.22	.....
*Newbern	6.30	3.36	5.10	10.20	4.67	5.88	5.33	4.54	1.57	1.53	4.94	2.10	55.52
*Oakridge	6.31	3.28	4.83	5.37	6.29	3.83	6.16	3.62	0.11	1.05	2.43	4.84	48.12
Pantego	4.88	1.65	5.80	9.72	2.82	3.26	6.62	4.00	1.08	2.08	3.74	3.06	48.71
Pittsboro	9.21	1.85	4.80	13.40	2.61	7.00	5.60	5.36	0.70	2.35	6.57	4.10	63.55
*Raleigh	7.44	2.66	6.09	7.95	3.46	3.79	7.08	3.99	0.38	2.82	2.84	2.62	51.12
Raleigh[1]	.....	.....	5.45	6.75	3.10	3.15	5.05	.....	.....	2.65	2.60	.....	.....
Rockingham	9.35	2.37	6.77	7.35	2.58	4.18	4.84	6.37	3.29	2.61	2.62	6.19	58.52
Roxboro	6.26	1.60	4.57	6.12	3.77	3.73	4.35	2.33	.....	2.37	3.33	2.55	.....
Rutherfordton	.....	.....	.....	5.95	5.96	2.46	4.09	4.77	0.39	1.35	2.73	1.03	.....
Salem	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.25	4.32	.....
Salisbury	5.87	2.06	5.40	5.55	6.85	1.86	3.74	3.48	0.92	1.04	2.75	3.96	43.48
Saxon	5.75	1.65	4.00	4.16	4.57	3.28	5.00	4.23	2.56	1.58	2.38	3.84	43.00
Selma	5.68	3.10	7.37	8.66	3.75	2.76	4.38	6.26	0.25	2.50	3.90	3.15	51.76
Settle	.....	.....	.....	.....	.....	.....	.....	2.99	0.38	1.13	3.36	6.98	.....
Shelby	.....	1.75	6.12	4.15	3.13	.....	.....	.....	.....	.....	.....	.....	.....
Skyuka	9.17	3.65	8.45	7.44	4.77	3.46	4.66	10.67	0.88	1.10	3.17	3.68	61.10
Sloan	6.05	3.36	6.18	8.04	3.45	2.74	5.08	8.79	2.49	2.71	2.83	2.09	53.81
Soapstone Mount	6.19	1.81	4.86	7.49	3.08	3.54	5.20	5.54	0.28	1.97	2.71	5.49	48.16
Southern Pines	7.60	2.39	8.78	6.83	2.07	4.79	4.93	5.99	[h]0.11	1.87	0.55	3.54	49.45
Southport	5.76	3.54	4.47	6.53	6.86	1.82	9.03	6.40	3.39	1.91	3.90	2.28	55.89
Tarboro	4.54	2.95	.....	.....	.....	6.90	5.96	7.44	0.10	2.99	2.26	2.79	.....
Waynesville	6.97	1.86	5.92	3.09	5.97	4.46	4.15	7.05	0.64	2.02	2.30	3.30	47.73
*Weldon	5.26	2.12	5.19	8.08	4.13	3.72	7.01	4.07	0.07	2.43	2.61	2.65	47.34
Willeyton	3.91	2.60	4.93	6.43	6.03	1.83	6.81	3.66	0.64	2.35	3.62	2.28	45.09
*Wilmington	4.80	2.38	2.94	6.56	4.37	2.97	4.82	6.52	4.46	1.67	3.38	1.40	46.27
North Dakota.													
Ashley	0.75	0.35	0.72	1.24	2.92	5.90	0.95	1.19	0.64	0.14	1.22	0.22	16.24
Berlin	0.88	0.52	T.	1.58	2.00	4.61	1.36	1.21	0.50	0.26	2.03	0.85	15.80
*Bismarck	0.89	0.35	0.24	2.53	3.80	4.01	2.08	0.40	0.67	0.08	1.60	0.27	16.92
Bottineau	0.75	0.30	0.15	0.80	3.63	3.74	.....	1.00	.....	.....	.....	.....	.....
Churchs Ferry	0.60	0.53	0.26	1.46	2.35	2.90	3.70	2.20	0.42	.....	0.65	0.42	.....
Devils Lake	0.51	0.38	0.45	5.16	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dickinson	0.10	0.32	1.06	1.36	1.69	3.28	2.47	0.51	0.13	0.00	0.34	0.50	11.76
Ellendale	0.33	0.24	0.05	1.81	2.14	3.31	2.15	[d]1.36	[h]0.32	0.27	0.97	0.40	13.35
Falconer[2]	0.92	0.60	0.35	4.09	3.30	2.90	2.10	0.47	T.	T.	0.90	0.20	15.83
Fargo	0.36	0.12	0.00	1.36	1.62	4.81	3.24	1.59	1.55	0.14	1.16	0.10	16.05
Forman	0.55	0.34	T.	1.33	2.58	4.46	2.33	1.65	0.77	0.02	1.80	0.04	15.87
Fort Berthold	0.85	0.90	0.04	1.13	2.76	4.19	2.49	0.28	0.27	0.21	1.80	0.27	15.19
Fort Yates	1.11	T.	0.78	2.97	1.70	4.32	1.30	0.36	0.04	0.30	0.70	T.	13.58
Gallatin	0.42	0.42	0.10	1.43	3.02	5.49	1.81	1.06	0.84	0.22	1.09	0.18	16.08
Grafton	0.60	0.30	0.05	3.22	0.90	4.70	3.30	1.35	1.60	0.30	0.30	0.14	16.76
Jamestown	0.63	0.45	T.	1.23	1.52	3.92	1.44	1.28	0.27	T.	1.60	0.30	12.64
Kelso	0.75	0.40	0.00	0.64	2.41	4.71	3.66	.....	.....	.....	[h]1.14	0.15	.....
Lakota	0.31	0.24	0.10	1.79	.....	5.04	2.58	2.03	0.47	0.32	.....	.....	.....
Larimore	0.00	.....	.....	1.19	2.24	6.17	1.87	0.95	0.86	0.28	0.69	.....	.....
Lemert	0.20	.....	[f]0.25	2.60	[d]2.35	3.52	3.08	.....	.....	[e]0.00	.....	[f]T.	.....
McKinney	0.30	0.22	T.	1.60	3.56	4.25	2.75	1.45	1.05	0.41	0.87	0.24	16.70
Milton	0.50	0.05	0.10	1.75	3.97	5.80	3.30	2.68	1.30	0.20	0.60	0.60	20.85
Minto	0.36	T.	0.04	1.59	1.91	4.32	3.86	0.67	1.72	0.51	.....	0.12	.....
Napoleon	1.20	1.20	0.10	1.98	2.82	4.22	1.91	1.16	0.34	0.25	1.02	0.55	16.75
New England City	0.28	0.70	0.05	0.70	2.30	2.80	1.90	[e]0.00	.....	0.00	1.10	.....	.....
Oakdale	0.70	0.80	[e]0.10	1.92	2.37	3.82	3.90	0.95	0.35	0.05	0.78	0.05	15.79
Portal	0.30	0.00	0.00	1.52	2.81	3.67	6.28	3.25	1.05	0.40	0.80	.....	.....
Power	0.75	0.52	T.	1.13	1.04	3.26	6.36	2.94	1.13	0.17	1.31	0.18	18.79
St. John	0.80	0.60	0.10	1.58	4.22	6.00	3.90	2.13	1.72	[i]0.17	0.50	0.45	22.17
Sheyenne	0.40	0.30	0.45	2.20	2.25	5.25	2.75	3.65	1.22	0.01	0.90	.....	.....
Steele	0.45	0.40	0.10	1.67	1.97	3.54	1.13	0.68	0.08	[d]0.17	1.66	0.28	12.13
University	0.31	0.30	0.05	0.93	1.94	6.74	2.69	1.54	1.57	0.65	1.58	0.34	18.64
Wahpeton	0.50	T.	0.00	1.40	1.63	6.60	.....	.....	.....	.....	.....	0.06	.....
Washburn	0.92	0.60	0.35	4.09	3.30	2.90	2.10	0.47	.....	.....	.....	.....	.....
White Earth	0.40	0.20	0.16	3.38	3.62	.....	.....	.....	.....	0.35	.....	0.88	.....
Wildrice	0.81	0.45	T.	2.17	1.61	5.54	4.12	1.48	1.81	0.20	1.86	0.18	20.23
*Williston	0.53	0.47	0.07	2.52	3.02	3.67	2.55	1.03	0.32	0.35	1.91	0.63	17.07
Willow City	0.80	0.40	T.	1.31	[e]3.37	3.45	2.72	2.00	1.02	T.	1.10	0.03	16.20
Woodbridge	0.19	0.09	0.03	1.04	3.15	3.77	4.12	2.03	0.93	0.38	0.09	0.40	16.22
Ohio.													
Akron	3.69	1.18	2.26	1.98	1.74	1.97	2.08	5.22	2.44	1.17	4.46	4.95	33.14
Annapolis	2.70	0.45	0.85	1.03	1.65	0.98	3.14	4.01	[e]0.49	0.67	2.38	.....	.....
Arcanum	3.17	0.44	1.26	1.26	1.28	2.63	1.20	1.72	.....	.....	.....	.....	.....
Ashland	4.83	1.45	1.52	2.15	2.06	3.36	2.00	3.07	2.33	1.26	4.41	4.20	32.64
Ashtabula	3.44	1.21	1.75	1.67	2.40	2.73	1.86	3.15	5.85	2.97	4.63	3.82	35.48
Athens	4.14	0.70	2.43	1.55	2.07	2.88	1.56	.....	1.74	1.46	.....	.....	.....
Atwater	3.85	0.84	1.94	1.37	2.25	2.78	2.70	3.43	2.23	1.23	3.56	4.85	30.33
Auburn	3.30	1.21	1.54	2.05	2.43	1.33	2.22	4.45	3.13	1.36	5.33	5.00	33.35
Bangerville	3.74	1.13	1.53	1.77	2.14	4.15	2.04	4.06	2.71	1.21	2.78	4.80	32.06
Bellefontaine	3.72	0.62	1.38	3.32	0.95	2.67	0.95	3.42	0.44	2.17	5.85	3.57	29.06

[1] T. C. Harris.

[2] Formerly known as Washburn.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Ohio—Continued.													
Bement	3.43	.....	1.48	2.93	3.69	2.16	1.91	7.99	2.69	2.76	7.78	5.39	.....
Benton Ridge	2.65	1.08	0.43	1.26	2.59	1.22	1.70	2.83	1.56	0.93	4.97	3.46	24.68
Berlin Heights	.....	.....	.....	2.10	2.08	.....	.....	.....	.....	.....	.....	.....	.....
Bethany	5.70	0.55	1.30	2.28	1.74	2.03	1.19	2.34	0.31	0.69	4.74	2.62	25.49
Bigprairie	4.24	0.85	3.03	1.52	1.63	2.29	2.61	2.52	2.08	1.05	5.02	4.49	31.33
Binola	4.02	0.81	1.52	1.78	3.68	2.45	1.82	5.36	2.68	1.76	4.82	3.84	34.54
Bissells	3.70	1.37	1.76	1.67	1.61	1.67	1.85	6.14	3.15	1.54	4.59	4.46	33.51
Bladensburg	4.45	0.48	2.23	.....	[b]0.98	2.13	3.74	3.44	1.85	1.13	4.34	4.32	.....
Bloomingburg	5.48	0.60	1.14	2.89	1.15	2.52	1.77	0.84	0.45	0.96	4.89	2.73	25.42
Bloomington	.....	0.70	0.79	3.08	1.54	3.19	1.86	1.01	0.25	1.10	.....	.....	.....
Bowling Green	2.11	0.31	0.87	2.58	2.25	2.20	0.83	2.49	0.71	1.60	5.87	3.74	25.56
Bucyrus	4.10	0.24	3.60	2.97	1.60	4.70	2.80	3.50	3.70	1.71	4.30	4.20	37.42
Caledonia	3.05	0.81	1.80	2.80	1.42	3.72	.....	.....	.....	.....	.....	.....	.....
Cambridge	4.62	0.51	1.45	2.18	1.70	1.26	2.84	3.29	2.09	1.41	4.05	4.08	29.48
Camp Dennison	6.01	0.36	1.51	2.43	1.75	2.20	1.71	1.94	0.51	0.77	5.10	3.06	27.41
Canal Dover	5.19	0.79	1.63	1.78	1.62	3.45	3.88	.....	.....	1.91	3.46	5.42	.....
Canton	4.15	1.05	1.95	1.84	1.78	3.13	2.25	4.81	1.11	1.51	3.59	4.91	32.08
Cardington	2.00	0.49	1.78	2.57	1.67	1.99	2.30	2.90	.....	0.96	5.65	3.50	.....
Carrollton	4.30	1.32	1.86	1.23	1.71	1.12	3.06	2.79	1.54	1.04	3.25	4.51	27.73
Cedarville	5.20	0.84	1.55	2.33	1.65	3.89	1.74	0.70	0.41	0.86	5.44	4.08	23.69
Celina	.....	0.30	0.70	1.87	2.02	1.77	1.34	1.31	2.00	0.55	5.04	2.18	.....
Cherryfork	5.01	0.70	2.90	3.18	2.07	3.79	1.44	1.77	0.31	1.15	2.56	3.83	28.71
*Cincinnati	6.13	0.37	1.51	2.62	1.82	2.15	2.27	3.29	0.49	0.73	4.66	3.29	29.33
Circleville[1]	4.74	0.50	1.58	3.72	1.08	2.58	0.89	1.50	0.62	0.57	3.62	.....	.....
Circleville[2]	4.99	0.72	1.18	3.75	1.14	2.55	1.21	1.74	0.64	1.26	3.36	3.86	26.40
Clarksville	5.30	0.26	1.61	3.14	1.24	3.33	5.86	1.59	0.86	1.25	5.06	3.38	32.88
*Cleveland	2.32	0.43	1.23	1.38	1.84	1.82	1.18	4.59	1.68	1.71	4.52	4.14	26.84
Cleveland[3]	2.91	0.84	1.61	1.63	2.15	2.25	1.53	4.03	2.59	2.04	4.71	4.16	30.45
Clifton	4.15	0.45	1.69	1.88	2.11	3.09	2.59	1.44	0.99	0.94	5.14	2.87	27.34
Coalton	4.01	0.80	1.70	1.53	1.53	3.11	1.75	1.85	1.69	1.12	1.47	2.84	23.40
Colebrook	3.54	1.03	1.50	1.85	3.78	2.04	3.25	3.99	4.25	1.54	4.13	4.43	35.33
*Columbus	4.67	0.64	1.23	4.12	1.73	2.94	1.45	2.10	1.48	0.92	5.32	4.14	30.74
Cynthiana	7.36	0.80	1.77	3.56	2.79	2.53	2.24	.....	.....	.....	.....	.....	.....
Dayton[4]	4.87	.....	1.78	1.71	1.78	3.48	0.65	3.05	0.66	0.90	5.32	3.40	.....
Dayton[1]	4.08	0.18	1.35	1.80	1.51	3.43	0.74	2.25	0.66	0.80	5.93	3.16	25.89
Defiance	1.80	0.76	0.70	1.02	2.11	0.80	1.30	2.12	1.35	1.35	4.56	5.38	23.25
Demos	4.55	1.34	1.24	1.97	1.81	1.28	2.07	4.87	1.09	1.73	1.31	4.77	28.03
Dupont	3.98	0.66	0.65	1.97	4.49	[c]0.50	1.65	3.01	1.80	T.	3.10	3.89	25.70
Ellsworth	3.92	0.92	1.52	1.53	1.67	3.13	1.55	2.68	2.59	0.88	3.23	4.56	28.18
Elyria	1.66	0.34	2.27	1.28	4.28	2.21	1.43	5.53	1.83	2.24	4.60	4.30	31.97
Fayetteville	6.84	0.53	2.12	3.51	1.99	3.67	2.91	1.32	0.68	1.09	4.09	3.98	32.73
Findlay	3.33	0.50	0.82	2.78	1.55	2.76	3.04	2.22	1.83	1.04	5.67	2.92	28.46
Fostoria	2.85	0.64	1.60	3.24	2.04	1.68	1.87	0.68	0.24	0.82	4.73	3.44	23.83
Frankfort	5.17	0.50	1.60	3.08	1.54	2.14	2.58	3.38	0.61	1.50	2.93	3.70	28.73
Garrettsville	3.70	1.08	1.79	1.73	2.64	1.73	2.50	2.87	4.88	1.52	4.74	4.68	33.86
Georgetown	.....	0.35	1.40	3.79	.....	.....	.....	.....	.....	.....	.....	.....	.....
Granville	4.73	0.49	2.28	2.00	2.26	1.99	2.15	3.43	2.04	1.25	5.44	5.29	33.35
Gratiot	4.07	0.81	1.46	2.32	1.32	2.70	3.34	4.02	1.87	1.33	3.83	4.40	31.47
Greenfield	.....	0.40	1.07	3.40	1.15	1.75	1.50	1.70	T.	1.20	3.60	3.40	.....
Greenhill	4.43	0.56	1.36	1.17	1.36	2.32	3.18	4.02	1.38	1.46	3.27	4.26	28.77
Greenville	2.22	0.45	1.21	1.66	1.03	2.78	0.70	1.53	1.29	0.74	5.14	3.28	22.03
Hackney	4.27	1.15	1.42	2.23	1.36	1.23	1.07	3.50	2.39	1.41	1.98	3.66	25.67
Hanging Rock	4.53	0.80	3.65	2.24	2.28	2.86	3.86	4.36	1.85	1.79	1.87	2.43	32.52
Hebbardsville	3.43	0.64	2.11	1.34	1.49	2.16	1.43	3.60	1.42	1.29	1.16	3.29	23.36
Hedges	3.22	0.80	1.85	1.30	1.52	1.71	1.16	3.15	1.55	1.00	5.76	4.21	27.23
Hillhouse	5.41	2.65	2.02	1.28	2.46	2.77	3.15	3.33	3.48	2.35	5.11	4.33	38.34
Hillsboro	5.27	0.50	1.70	2.78	1.02	2.51	2.27	2.76	0.45	1.20	2.95	3.49	26.90
Hiram	3.33	0.83	1.59	1.81	2.00	1.44	2.13	3.16	4.13	1.41	5.02	4.84	31.69
Hudson	.....	.....	.....	.....	.....	.....	1.42	5.91	2.56	0.91	5.57	.....	.....
Jacksonboro	5.10	0.80	0.50	1.35	1.45	5.40	1.60	2.55	0.20	0.40	5.35	3.30	28.00
Kenton	2.31	0.45	1.33	2.97	2.01	2.03	1.14	1.22	1.38	1.16	5.87	4.09	25.96
Kilbourne	2.00	0.45	1.13	3.03	1.95	2.44	1.22	.....	.....	.....	4.31	.....	.....
Killbuck	4.13	0.39	1.99	1.37	1.48	2.15	1.90	4.27	3.20	0.99	4.31	4.18	30.36
Lancaster	.....	.....	.....	.....	.....	.....	.....	.....	1.33	1.19	4.30	3.87	.....
Leipsic	2.67	0.40	0.61	2.30	1.23	1.85	1.00	2.94	1.08	0.80	5.44	3.59	23.91
Levering	3.17	0.70	1.80	2.61	2.32	4.15	2.20	3.48	2.15	1.25	4.39	4.26	32.48
Logan	3.80	0.73	1.32	0.99	1.39	5.26	1.95	6.25	2.85	1.66	2.71	3.78	32.69
Lordstown	3.84	0.40	1.61	1.56	1.90	2.69	2.01	2.90	3.22	1.07	3.01	4.51	28.72
Lowell	1.80	0.58	0.90	1.34	0.51	1.26	.....	.....	.....	.....	.....	.....	.....
McArthur	5.05	0.50	3.03	1.68	2.90	1.80	3.06	2.50	1.76	1.52	1.52	3.74	29.06
McConnelsville	5.49	0.91	1.89	1.54	2.58	1.69	1.23	3.85	2.22	1.73	2.17	4.05	29.35
Mansfield	3.53	0.67	1.92	2.48	1.68	4.78	.....	.....	.....	.....	.....	.....	.....
Marietta[1]	4.97	0.87	2.97	1.64	1.61	1.86	1.97	2.64	1.83	0.85	2.13	3.22	26.56
Marietta[5]	5.43	0.87	3.10	1.17	1.64	2.37	1.47	2.62	2.08	1.33	1.98	2.55	26.61
Marion	4.07	0.52	0.42	.....	1.53	4.06	2.21	1.80	2.61	0.93	3.70	2.74	.....
Medina	2.92	0.54	1.47	1.75	2.20	1.87	2.30	4.21	1.89	1.35	4.87	4.15	29.52
Milfordton	4.90	0.51	2.04	2.51	1.45	2.12	1.03	2.68	2.01	0.99	3.73	3.42	27.39
Milligan	4.15	0.78	1.46	1.48	1.91	1.55	2.47	3.75	2.68	1.69	2.18	2.90	27.00
Millport	4.10	0.75	2.05	1.11	1.66	.....	.....	5.10	1.86	1.26	3.31	4.08	.....
Montpelier	2.79	0.75	0.73	1.61	2.19	1.02	1.38	4.52	1.47	0.89	4.74	5.57	27.66
Napoleon	2.07	0.13	0.59	1.54	2.20	1.08	1.23	1.74	2.25	0.69	3.24	4.43	21.18
New Alexandria	6.24	2.22	4.12	2.60	1.43	1.85	3.33	4.06	1.71	0.98	2.41	5.59	36.34
New Berlin	3.77	0.60	1.66	2.19	1.28	3.40	2.81	5.48	1.90	1.28	3.40	4.04	31.81
New Bremen	2.38	0.37	1.17	1.42	2.65	2.49	2.32	2.20	0.85	0.20	5.77	4.05	25.87
New Comerstown	4.18	0.89	1.40	1.53	1.18	2.17	3.54	2.68	2.00	1.38	3.30	4.42	28.67
New Holland	6.83	0.70	1.37	2.83	0.69	1.80	1.69	2.83	1.34	1.11	4.16	2.91	28.46
New Moscow	.....	.....	1.97	1.39	1.67	1.76	3.29	4.95	2.43	1.55	3.31	4.11	.....

[1] Special river observer. [2] S. W. Courtright. [3] G. A. Hyde. [4] Miss E. L. Boyer. [5] J. C. Shedd.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Ohio—Continued.													
New Paris	3.63	0.25	1.20	1.45	3.20	4.25	0.71	1.87	0.89	0.71	5.62	4.12	27.90
New Waterford	6.90	0.54	0.90	1.76	1.44	2.39	3.36	5.00	1.52	1.42	3.50	5.50	34.23
North Lewisburg	4.45	0.65	2.55	2.15	2.10	3.00	0.80	2.00	0.20	1.10	6.15	3.80	28.95
North Royalton	3.03	1.42	1.61	1.59	2.25	4.01	2.24	5.19	1.19	1.17	4.50	3.79	31.99
Northwood	2.32	0.50	2.00	2.61	.....	.....	.....	.....	.....	.....	.....	.....	.....
Norwalk	2.85	0.80	1.60	2.35	1.40	2.36	2.88	4.13	0.37	2.05	5.55	4.05	30.39
Oberlin	2.82	0.51	0.26	2.10	2.02	2.44	0.75	3.64	1.87	1.95	6.35	2.15	26.86
Ohio State University	4.38	0.99	1.55	3.40	1.55	1.39	1.25	1.47	1.49	0.81	4.38	4.29	26.95
Orangeville	.....	0.40	0.60	0.95	1.80	3.55	1.90	3.35	.....	1.03	3.25	4.15	.....
Ottawa	3.07	0.42	0.81	1.81	1.51	1.47	1.28	2.88	1.42	0.69	5.54	4.05	24.95
Pataskala	4.87	0.51	1.56	2.77	1.53	1.75	0.99	3.10	1.10	1.36	5.85	4.68	30.07
Peoli	4.29	0.45	2.02	1.63	2.15	1.45	3.63	3.25	1.57	0.52	3.51	.....	.....
Philo	.....	.....	.....	.....	.....	1.28	1.99	4.13	1.86	1.45	2.70	3.36	.....
Plattsburg	3.85	0.80	1.32	2.38	1.93	2.28	1.86	1.31	0.72	0.94	4.75	2.88	25.02
Pomeroy	4.20	0.70	2.17	0.55	0.88	1.83	1.99	2.55	2.36	0.95	.....	2.38	.....
Portsmouth [1]	5.04	0.73	3.64	2.11	1.91	3.50	4.03	2.99	1.60	1.03	2.21	2.65	31.44
Portsmouth [2]	5.19	0.74	3.42	2.21	1.80	4.92	2.51	2.99	1.60	1.51	1.73	2.62	31.24
Richwood	4.09	0.89	1.39	1.84	1.19	3.34	1.63	2.26	.....	.....	5.25	3.97	.....
Ridgeville Corners	3.07	0.15	0.67	1.10	2.67	0.90	0.86	2.44	1.91	1.25	4.84	4.44	24.30
Ripley	4.89	0.61	2.39	3.92	1.82	2.81	2.54	2.53	1.00	1.31	2.61	4.04	30.47
Rittman	3.65	0.57	2.37	1.80	0.97	2.68	2.84	4.06	3.11	1.31	3.93	3.88	31.17
Rockyridge	2.11	0.35	0.63	1.99	1.27	2.09	2.00	2.20	1.51	1.58	5.64	4.46	25.83
Rosewood	3.84	0.73	1.24	1.58	1.75	2.35	0.63	2.88	0.27	0.97	5.35	3.00	24.59
*Sandusky	2.39	0.36	1.23	2.25	2.00	1.61	1.48	3.32	2.23	1.67	4.73	3.55	26.82
Sharon Center	2.30	1.00	1.30	1.47	2.49	1.47	1.34	3.85	2.22	1.08	4.06	3.41	25.99
Shenandoah	2.69	0.52	1.59	2.30	1.83	4.29	2.42	2.92	1.91	1.46	4.68	3.32	29.90
Sidney [3]	3.08	0.53	1.42	1.55	2.20	2.96	.....	.....	.....	.....	.....	.....	.....
Sidney [4]	3.28	0.58	1.42	0.99	1.70	3.05	1.27	3.06	0.50	1.19	5.59	3.48	26.11
Sinking Spring	.....	.....	.....	.....	.....	.....	.....	.....	0.51	1.51	2.63	4.30	.....
Springboro	3.56	0.70	1.22	2.13	1.63	3.74	0.95	2.22	0.54	1.62	4.98	2.66	25.95
Steuben	2.00	0.74	1.59	2.84	.....	.....	2.65	3.16	1.66	2.02	4.85	.....	.....
Stoutsville	6.12	1.24	1.74	3.13	1.65	1.46	1.27	3.21	0.86	1.50	2.91	3.80	28.89
Sylvania	2.89	.....	1.29	1.75	3.01	1.56	1.31	3.50	1.32	0.97	5.40	5.48	.....
Thurman	4.41	0.70	2.75	0.80	1.10	2.00	1.99	1.65	1.42	1.51	0.87	1.65	20.85
Tiffin	2.74	0.71	1.40	2.46	1.33	1.96	2.86	1.77	1.34	1.28	5.72	4.50	28.07
*Toledo	2.16	0.34	0.91	2.02	2.30	1.24	1.25	3.75	1.11	0.97	5.03	4.23	25.31
Upper Sandusky	3.14	0.56	1.33	2.84	1.12	5.41	2.45	2.76	1.39	1.30	5.72	4.85	32.87
Vanceburg	4.44	0.57	2.97	2.94	2.18	2.69	1.66	2.45	1.73	1.18	1.93	3.43	28.17
Vanwert	2.00	0.48	0.87	1.43	1.35	2.80	1.49	1.84	1.58	0.42	5.17	3.25	22.77
Vermilion	3.03	1.04	1.66	1.89	1.50	1.73	1.25	3.87	1.50	2.01	5.37	4.55	29.40
Vickery	2.85	0.63	1.03	2.13	1.80	1.40	1.37	1.77	1.83	1.78	5.33	4.02	25.94
Walnut	4.60	0.86	1.11	3.15	1.83	1.69	1.50	2.11	1.11	1.43	4.40	3.72	27.51
Warren	4.30	1.32	2.59	1.40	2.50	3.60	2.24	2.28	2.67	0.51	3.43	5.82	32.66
Warsaw	3.29	0.20	1.03	1.38	1.74	3.05	[5]2.12	.....	2.17	0.66	3.24	3.98	.....
Wauseon	2.27	0.76	1.62	2.10	2.75	0.64	0.71	2.82	1.18	1.19	6.30	6.72	29.06
Waverly	5.43	0.52	2.16	1.86	2.47	1.84	1.80	1.76	1.22	1.31	1.65	3.24	25.26
Waynesville	5.01	0.33	1.76	2.79	1.57	2.92	1.81	2.43	0.50	0.85	5.04	3.25	28.26
Wellington	2.65	0.82	1.68	2.11	2.31	4.34	1.17	4.94	3.55	1.90	4.75	3.00	33.22
Westerville	4.27	0.69	1.35	3.26	1.74	2.02	1.25	3.69	1.06	1.03	4.36	4.08	28.80
Wheeler	3.05	1.70	0.17	2.12	1.85	1.75	2.16	2.80	4.32	2.66	.....	.....	.....
Willoughby	2.65	0.66	0.81	1.14	1.16	1.34	3.24	2.30	4.29	1.90	4.53	4.06	28.08
Wooster [4]	3.97	0.41	1.98	1.69	1.38	4.20	2.19	2.30	3.92	1.15	4.21	3.51	30.91
Wooster [3]	.....	.....	2.00	1.76	1.18	4.13	.....	.....	.....	.....	.....	.....	.....
Youngstown	3.02	1.22	1.70	1.08	1.22	3.80	1.65	3.15	2.12	1.36	3.39	3.46	27.17
Zanesville	3.98	0.71	1.15	1.23	0.84	1.42	1.50	3.55	1.82	0.88	3.49	.....	.....
Oklahoma.													
Alva	.....	2.25	T.	1.40	1.55	5.28	4.26	6.25	0.80	1.40	1.95	0.65	.....
Anadarko	0.95	0.10	T.	1.00	0.95	.....	.....	2.88	T.	4.30	4.69	2.50	.....
Arapaho	1.01	2.09	0.06	1.35	1.74	5.90	5.08	5.46	1.15	2.84	3.10	1.25	31.03
Britton	.....	.....	0.75	1.20	0.89	3.26	5.96	5.93	2.11	2.88	.....	2.57	.....
Buffalo	.....	3.00	0.20	1.50	4.05	.....	.....	.....	.....	.....	.....	.....	.....
Burnett	1.32	0.20	0.67	1.46	1.44	4.68	4.88	4.55	0.29	3.87	5.15	7.66	36.17
Clifton	1.41	0.27	0.90	0.84	0.67	10.32	4.61	5.90	0.13	2.77	5.53	4.84	38.19
Enid	.....	.....	.....	.....	2.43	6.73	1.62	6.68	0.77	.....	.....	.....	.....
Fort Reno	1.10	0.75	0.25	1.74	0.94	2.41	2.24	4.45	0.60	2.53	3.24	2.50	22.75
Fort Sill	0.56	0.54	0.20	0.43	2.92	3.92	6.28	2.10	0.06	4.59	5.56	2.01	29.17
Guthrie	1.05	0.04	0.30	0.95	0.79	5.07	3.64	7.99	0.89	2.30	4.81	2.88	30.71
Hennessey	.....	.....	.....	.....	1.26	.....	3.99	4.72	1.43	1.59	1.75	2.99	.....
Keokuk Falls	.....	0.30	0.54	1.28	2.86	6.87	8.45	8.30	0.15	3.28	5.71	10.75	.....
Mangum	0.40	3.57	0.00	0.69	1.14	11.54	6.33	2.82	T.	3.72	2.26	0.92	33.39
Norman	0.93	0.13	0.62	0.30	1.78	5.84	4.23	5.43	0.51	4.37	5.80	3.87	33.86
*Oklahoma	0.93	0.07	0.82	0.41	1.34	3.11	5.94	4.44	2.93	2.93	5.79	3.78	32.49
Ponca	0.58	0.40	0.50	1.30	2.40	7.54	1.55	5.72	0.05	0.50	2.20	2.70	25.44
Pondcreek	0.98	0.49	0.05	0.62	1.18	6.36	4.17	3.27	0.34	0.76	1.99	1.35	21.56
Prudence	.....	.....	.....	.....	.....	9.25	7.25	5.26	0.78	0.82	2.15	2.80	.....
Sac and Fox Agency	1.65	0.00	1.10	0.97	2.30	6.05	9.05	10.10	0.00	2.75	5.30	8.85	48.12
Stillwater	.....	.....	.....	.....	2.27	4.61	3.60	4.97	1.50	1.58	4.69	3.38	.....
Winnview	1.19	1.02	0.02	0.89	2.79	4.81	2.83	5.71	0.86	1.83	[6]3.17	[6]1.57	26.19
Oregon.													
*Albany	12.25	1.48	4.44	2.70	4.87	0.35	0.39	0.15	2.64	0.10	4.28	14.02	47.67
Arlington	2.79	0.21	0.25	0.50	0.61	0.00	0.60	0.09	0.80	0.00	0.41	1.52	7.78
Ashland	2.94	0.48	1.52	0.45	1.30	0.54	0.26	0.06	0.67	0.00	1.13	4.65	14.00
*Astoria	14.84	3.21	6.63	6.30	8.52	1.15	1.15	0.09	2.65	0.23	8.44	17.54	70.75

[1] Special river observer. [2] Special rainfall observer. [3] Dr. D. B. Cotton. [4] H. B. Blake. [5] Agricultural experiment stations.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Oregon—Continued.													
Aurora	10.54	1.39	4.30	2.62	4.79	1.69	0.17	0.33	1.31	0.00	4.45	10.35	41.94
Aurora (near)	9.78	1.42	4.67	3.25	5.80	0.65	0.30	0.23	1.80	T.	5.17	10.87	44.04
*Baker City	2.99	0.98	1.05	0.95	1.25	0.10	0.13	0.39	2.31	T.	0.33	1.52	12.00
Bandon	22.74	5.82	12.10	9.35	11.15	0.53	1.01	0.04	10.28	0.08	5.86	21.67	100.63
Beulah	.....	.....	0.18	T.	1.37	0.14	0.00	0.29	.....	0.00	0.10	1.60	.....
Brownsville	8.85	1.52	4.78	2.90	4.16	0.26	0.32	0.06	2.59	0.08	3.81	10.40	39.73
Burns	1.20	.....	.....	.....	.....	.....	0.00	.....	.....	0.00	.....	.....	.....
Canyon City	2.13	0.80	.....	0.67	1.75	.....	0.20	0.35	2.88	0.00	0.30	1.15	.....
Cascade Locks	12.71	3.46	7.35	5.34	7.91	0.43	1.15	0.13	3.88	0.20	8.87	19.60	71.03
Comstock	8.60	.....	5.90	3.54	5.89	0.19	0.46	0.05	3.20	0.00	3.52	13.13	.....
Condon	.....	.....	2.20	1.50	1.58	.....	0.47	0.73	.....	.....	.....	.....	.....
Cornelius	11.99	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Corvallis	11.65	1.55	4.45	3.06	4.36	0.28	.....	T.	2.15	T.	4.64	11.21	.....
Corvallis (near)	13.96	1.76	4.84	3.45	5.25	0.17	0.41	0.11	2.98	0.01	4.99	14.98	52.91
Crook	1.38	.....	.....	2.11	0.78	0.03	.....	.....	.....	.....	.....	1.10	.....
Dayville	.....	.....	.....	.....	.....	T.	0.42	0.14	1.20	0.00	0.35	0.59	.....
Detroit	14.10	3.25	6.47	5.49	8.59	0.63	1.00	0.20	3.46	0.10	8.01	18.67	69.97
*Eugene	6.88	2.11	4.82	3.25	3.98	0.29	0.30	T.	1.90	T.	3.56	10.47	37.56
Fife	.....	.....	0.25	0.45	1.13	T.	0.20	0.87	1.00	0.00	0.35	1.25	.....
Forestgrove	11.87	[d]1.36	2.99	3.33	4.42	.....	.....	.....	.....	0.12	5.01	14.76	.....
Gardiner	17.03	3.87	10.35	7.29	10.20	.....	.....	.....	5.90	0.07	5.66	20.99	.....
Glenora	23.53	5.33	11.54	12.09	13.14	0.98	1.76	0.27	4.61	0.27	13.25	30.14	116.91
Grants Pass	6.87	1.86	3.22	1.90	2.91	0.00	0.15	0.20	2.33	0.00	2.14	6.00	27.58
Happy Valley	0.66	0.48	0.33	1.41	1.87	0.01	0.20	0.12	2.29	0.00	0.30	2.08	9.75
Heppner	1.99	0.45	1.00	0.55	1.92	0.04	0.25	0.69	1.37	.....	.....	2.71	.....
Hood River (near)	10.85	1.16	3.68	1.90	3.33	.....	0.64	0.15	2.91	0.01	3.82	12.83	.....
Hubbard	11.08	1.44	5.30	3.26	5.17	0.83	0.46	0.46	1.55	T.	3.35	11.82	44.72
Jacksonville	4.46	1.10	2.25	1.25	2.16	0.02	0.22	0.04	1.37	0.00	1.74	6.12	20.73
Joseph	3.10	0.51	2.20	1.32	2.16	0.30	0.64	0.42	2.95	0.00	0.72	1.76	16.08
Junction City	5.98	0.40	2.96	1.81	2.57	0.06	0.48	0.02	0.17	0.00	3.47	11.13	29.05
Klamath Falls	.....	.....	.....	.....	1.77	0.00	0.50	0.45	0.70	0.00	0.39	.....	.....
Lafayette	10.43	1.13	5.56	4.08	4.18	0.02	0.00	0.04	3.17	0.00	3.13	9.31	41.05
Lagrande	0.94	0.50	0.85	1.70	2.17	0.05	0.50	0.22	.....	.....	.....	.....	.....
Lakeview	5.15	1.02	2.00	0.52	1.33	T.	0.20	0.45	0.60	T.	1.10	2.25	14.62
Langlois	24.73	5.63	13.07	11.06	12.73	0.12	1.43	0.05	7.85	0.00	3.99	21.14	101.80
Lonerock	2.42	0.47	0.50	0.93	2.81	.....	0.38	0.17	1.19	0.00	1.03	.....	.....
Lorella	.....	2.08	1.62	0.99	2.27	0.00	1.50	0.08	0.80	T.	0.50	5.90	.....
McMinnville	11.42	1.83	4.91	2.34	4.01	0.23	0.43	0.40	3.18	0.02	5.42	15.43	49.62
Merlin	9.63	1.56	3.60	1.51	2.88	0.00	0.21	0.00	0.33	0.00	2.08	7.05	28.85
Monmouth	9.16	0.97	4.61	2.30	4.59	0.10	0.19	0.10	2.69	0.00	3.88	12.00	40.59
Mount Angel	11.21	1.57	4.86	3.68	5.24	0.96	0.38	0.00	2.59	0.05	4.90	12.01	47.45
Nehalem	19.47	4.94	11.54	9.22	11.64	1.89	1.23	0.80	5.33	1.37	12.54	25.10	105.07
Newbridge	.....	.....	.....	0.09	0.30	0.01	0.01	0.01	0.19	0.03	0.34	2.30	.....
Newport	13.68	2.51	9.70	6.29	9.97	0.56	0.91	0.34	4.10	0.22	6.45	19.86	74.59
Pendleton	2.23	0.49	1.04	0.82	1.68	0.04	0.39	0.07	1.28	0.00	1.19	1.74	10.47
*Portland	8.53	1.01	2.84	1.91	3.42	0.57	0.23	0.37	1.16	T.	2.93	7.79	30.76
Riddles	4.64	0.87	2.47	2.45	2.30	0.15	0.25	0.00	2.85	0.00	2.80	8.80	27.58
*Roseburg	5.05	1.52	3.58	2.36	2.14	0.22	0.27	0.01	2.74	0.00	3.18	8.85	29.92
Salem [1]	.....	1.08	4.00	3.45	4.21	0.09	0.20	0.15	1.98	0.00	3.26	8.59	.....
*Salem [2]	13.72	1.89	4.56	2.34	6.23	0.50	0.61	0.23	2.18	0.00	3.71	11.16	47.13
Salmon	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.45	9.96	22.04	.....
Sheridan	13.29	1.36	5.44	2.82	3.19	0.15	0.72	0.16	2.85	0.00	4.45	13.62	48.05
Silverton	10.87	1.26	4.94	2.57	5.33	0.45	0.47	0.38	1.81	0.00	4.79	10.67	43.54
Siskiyou	10.10	0.90	3.30	0.30	0.40	0.00	0.00	0.00	T.	0.00	.....	4.90	.....
Sparta	3.50	0.80	0.64	1.29	2.79	0.26	0.53	0.47	3.04	0.00	1.95	5.34	20.61
Springbrook	12.32	1.40	3.82	1.63	4.64	0.16	0.35	0.37	2.07	.....	.....	.....	.....
Springfield	7.57	2.19	5.40	2.56	3.08	0.55	0.08	0.00	1.76	0.00	3.80	10.40	37.39
*The Dalles	4.72	0.47	0.65	0.24	0.94	0.00	0.32	0.05	1.14	0.00	1.20	4.15	13.88
Tillamook Rock light-house	.....	.....	.....	.....	5.46	0.88	0.65	0.48	2.06	0.17	.....	7.26	.....
Toledo	.....	2.02	9.36	6.84	9.56	0.00	.....	.....	.....	0.00	8.50	11.01	.....
*Umatilla	1.96	0.46	0.25	0.20	0.64	0.04	0.07	0.00	.....	.....	.....	.....	.....
Vale	1.15	0.90	0.04	0.46	1.51	0.01	0.03	0.32	1.60	0.00	0.14	.....	.....
West Fork	13.04	2.00	5.90	5.19	3.71	0.00	0.25	0.16	4.17	0.00	4.37	12.55	51.34
Weston	2.67	.....	1.04	1.44	1.83	0.11	0.41	T.	1.88	T.	1.73	1.65	.....
Williams	6.89	1.67	3.48	1.76	3.04	0.07	0.15	0.00	2.35	0.00	2.37	6.91	28.69
Pennsylvania.													
Altoona	3.22	0.17	1.05	2.16	0.80	3.75	1.75	*1.64	2.28	0.55	1.30	2.50	21.17
Aqueduct	3.72	0.74	2.04	4.23	2.06	1.65	2.66	2.39	2.24	1.27	2.20	4.15	29.35
*Beaver Dam	4.19	0.73	1.45	1.29	1.19	1.80	3.46	4.35	1.03	0.52	3.35	2.15	25.51
Bethlehem	4.04	0.89	2.31	4.46	2.33	4.48	3.84	2.96	0.63	3.69	1.66	2.61	33.90
Blooming Grove	3.92	3.47	1.47	5.21	2.74	2.99	4.18	2.80	1.35	.....	.....	.....	.....
*Brookville	3.17	0.99	2.33	3.33	1.71	3.79	3.06	2.43	3.37	0.76	3.96	3.56	32.48
Browers Lock	4.82	1.08	3.42	4.94	3.17	3.78	2.83	2.29	0.47	2.48	3.00	2.94	35.22
Carlisle	3.74	1.39	3.67	3.75	2.34	2.62	[b]1.31	4.70	1.06	0.64	2.46	3.49	31.17
Cassandra	4.71	1.45	3.22	3.61	4.66	3.65	4.85	2.27	3.69	1.11	2.21	3.68	39.11
Centerhall	.....	.....	.....	.....	.....	5.70	3.60	4.70	2.10	1.20	2.33	3.94	.....
Chambersburg	3.00	1.57	2.03	2.95	2.39	9.21	1.84	5.31	0.82	1.13	1.38	1.44	33.07
*Clarion	4.13	2.18	2.24	2.56	2.28	4.27	5.05	3.55	4.60	0.66	.....	.....	.....
Coatesville	5.08	2.93	3.48	4.63	3.65	4.76	2.20	2.65	1.42	3.34	1.39	2.98	38.51
Confluence	2.98	1.43	4.03	3.57	1.94	4.28	6.18	3.75	0.68	0.67	3.02	2.58	35.11
Coopersburg	4.19	1.71	2.60	5.40	3.08	2.40	4.00	3.29	0.75	4.08	2.32	3.22	37.04
*Davis Island Dam	3.91	0.46	1.48	1.80	2.24	2.19	2.48	3.73	1.38	0.45	3.01	2.21	26.04
Doylestown	3.98	1.29	2.77	5.03	2.64	2.97	3.11	2.89	0.73	3.17	1.89	1.40	31.87
Drifton	1.69	2.58	*1.18	4.24	2.03	1.77	2.66	3.25	2.08	2.65	3.57	2.07	29.77
*Dubois	4.83	1.58	1.95	4.41	2.24	5.24	2.29	2.54	1.60	0.76	3.37	3.73	34.54
Duncannon	.....	.....	.....	.....	1.99	2.27	1.40	2.01	1.69	1.70	1.67	3.67	.....
Dyberry	2.95	0.74	1.44	3.22	2.52	3.10	1.78	3.64	0.95	2.46	3.04	3.02	28.86
East Mauch Chunk	5.06	2.02	2.53	6.32	2.98	1.74	5.41	2.12	1.00	2.80	3.00	5.72	40.70

[1] Pacific Railway system.

[2] Special river observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Pennsylvania—Continued.													
Easton	3.56	1.55	2.16	3.91	2.58	3.10	5.02	2.29	0.74	4.62	2.22	2.47	34.22
*Elwood Junction	4.25	0.47	0.99	1.66	1.75	2.60	4.28	3.34	1.19	0.68	3.22	3.33	27.76
Emporium	4.79	0.50	1.60	2.53	3.08	4.95	3.06	2.98	2.89	1.82	2.59	3.37	34.16
*Erie	3.51	1.33	1.64	2.09	2.58	1.75	2.59	3.30	4.01	3.40	4.37	4.98	35.55
Forks of Neshaminy	4.98	0.83	3.51	5.96	2.80	4.72	3.76	4.26	0.77	3.33	2.05	2.56	39.53
Frederick	4.19	0.88	3.17	5.15	3.76	4.25	2.84	3.85	0.84	3.17	1.82	2.66	36.58
*Freeport	4.93	1.24	2.55	2.33	2.39	3.07	2.74	3.18	0.98	0.47	3.68	3.27	30.83
Gettysburg	.....	.....	1.83	3.27	3.16	3.10	1.37	2.27	1.24	2.13	1.55	2.37	.....
Girardville	3.82	1.54	2.48	4.39	3.33	2.77	2.73	4.69	2.69	3.47	2.71	4.35	39.27
Grampian	5.19	0.96	1.90	3.81	2.38	2.87	2.85	3.08	2.20	1.26	2.57	3.48	32.55
*Greensboro	4.34	1.08	2.92	3.88	1.55	3.93	5.25	4.27	0.55	0.92	3.12	2.83	34.64
Greenville	3.50	1.08	.....	2.35	2.75	3.26	.....	.....	.....	.....	.....	.....	.....
Hamburg	5.82	0.71	2.05	6.85	3.23	2.56	3.51	2.42	1.62	3.14	1.60	3.78	37.29
*Harrisburg	3.80	0.54	1.94	3.67	1.98	1.66	1.16	2.36	2.18	1.63	1.72	3.38	26.02
Hollidaysburg	5.74	1.03	2.33	2.52	2.39	4.84	2.66	2.03	1.91	[f]1.10	0.97	3.00	30.52
Honesdale	3.68	0.93	1.51	3.39	2.89	2.07	.....	.....	2.12	2.65	2.16	3.24	.....
Huntingdon (*a*)	5.16	0.46	1.42	1.97	3.01	4.78	3.15	1.46	1.26	1.09	1.07	2.99	27.82
Huntingdon	.....	.....	.....	.....	2.44	2.14	3.10	3.18	2.09	0.31	1.81	2.84	.....
*Johnstown	4.91	0.98	2.49	4.38	2.83	4.59	3.02	3.39	3.75	1.24	2.75	3.22	37.55
Kennett Square	5.30	1.68	3.48	5.74	3.30	4.40	2.90	2.93	1.55	3.21	1.80	3.12	39.41
Lancaster	4.17	1.74	3.02	5.07	3.01	2.18	3.28	.....	1.61	2.60	1.36	[d]1.02	.....
Lansdale	5.09	1.34	3.24	4.88	2.28	5.25	4.34	2.95	0.71	3.27	2.68	1.60	37.63
Lebanon	4.70	0.87	2.49	5.10	1.85	1.88	2.10	1.97	1.32	2.31	1.95	4.14	30.68
Leroy	3.27	0.80	1.55	2.65	3.24	3.69	3.42	3.81	3.11	0.65	3.06	4.05	33.30
Lewisburg	3.10	1.35	1.38	2.41	3.66	4.13	2.54	4.22	4.11	1.29	2.96	4.09	35.24
*Lockhaven	4.73	1.00	1.69	0.79	2.35	4.84	2.83	[d]3.27	3.18	1.35	2.48	3.46	31.97
*Lock No. 4	3.64	0.58	1.82	2.49	1.71	1.94	2.87	2.36	0.55	0.67	3.11	3.14	24.88
Lycippus	4.66	0.79	2.53	4.46	1.34	3.07	3.82	3.94	1.03	0.76	2.75	2.70	31.85
*Mahoning	4.05	0.59	1.51	3.40	2.28	3.46	3.44	3.24	0.69	0.56	.....	.....	.....
Mifflin	.....	.....	.....	.....	1.87	3.67	2.03	1.62	3.88	1.20	1.91	4.00	.....
*Oil City	4.63	1.49	1.64	2.68	4.22	2.58	3.65	3.09	5.15	1.24	5.11	5.32	40.80
Ottsville	3.93	0.88	3.30	4.99	2.73	3.58	3.61	3.98	0.59	4.10	2.03	3.53	37.25
*Parker	4.16	0.84	2.20	2.95	2.33	3.76	4.54	2.97	2.77	0.75	4.00	4.30	35.57
*Philadelphia	4.52	1.39	2.61	6.14	1.72	3.15	3.23	0.59	0.61	2.97	2.32	1.76	31.01
Philadelphia[1]	5.55	1.03	3.31	6.25	2.17	3.76	3.21	0.58	0.81	3.46	2.34	1.86	34.33
Philadelphia[2]	5.06	1.28	3.24	5.59	2.03	3.46	3.15	0.52	0.53	3.16	2.08	2.05	32.15
Philadelphia[3]	.....	.....	.....	.....	.....	.....	3.48	0.37	0.81	3.54	2.06	1.41	.....
Phœnixville	5.47	1.58	3.61	5.19	3.44	5.32	.....	.....	.....	.....	.....	.....	.....
*Pittsburg	4.16	0.77	1.73	1.83	1.97	2.26	2.11	4.29	1.83	1.11	2.24	3.20	27.50
Point Pleasant	4.63	0.73	3.42	5.99	2.78	5.41	2.36	6.67	0.55	3.95	1.93	1.76	40.18
Pottstown	5.65	1.48	3.57	5.13	3.89	3.46	2.53	4.42	1.01	3.64	2.20	3.20	40.18
Quakertown	3.73	1.47	2.70	5.41	3.60	3.47	4.63	2.13	0.87	3.38	2.60	3.19	37.18
Reading	3.90	1.16	2.19	4.28	2.41	3.25	4.40	3.44	0.37	3.15	1.20	3.59	33.34
*Ridgway	3.84	1.06	1.52	3.35	2.51	3.63	2.57	2.52	2.20	0.77	2.95	3.00	29.92
Saegerstown	3.92	2.38	1.14	1.40	3.60	0.69	3.15	6.03	5.41	1.58	4.21	4.44	37.95
Salem Corners	4.42	1.58	1.91	.....	2.87	1.15	5.09	3.32	2.42	1.91	4.25	3.88	.....
*Saltsburg	4.83	1.35	2.30	4.22	2.10	2.77	6.16	3.10	3.34	1.00	.....	.....	.....
Scranton	.....	.....	.....	.....	.....	.....	.....	.....	2.21	2.45	1.74	3.32	.....
Seisholtzville	4.40	2.18	2.76	7.09	3.15	2.87	4.88	2.88	1.01	3.75	1.92	3.59	40.48
Selinsgrove	.....	1.26	2.92	2.55	3.26	3.39	2.54	4.58	1.53	1.80	1.50	3.06	.....
Shinglehouse	1.83	1.00	1.58	1.81	2.65	5.03	1.30	.....	3.00	1.06	3.81	3.80	.....
Smethport	4.10	1.10	2.35	2.46	2.12	4.00	2.83	3.27	2.08	0.83	3.45	3.85	32.44
Smiths Corners	4.47	0.77	3.02	5.60	2.85	5.51	3.51	4.94	0.70	3.99	1.88	2.56	39.80
Somerset	6.36	1.56	3.34	2.58	1.88	2.80	2.94	2.79	0.50	1.18	2.66	2.89	31.48
South Eaton	2.35	1.33	1.62	3.60	3.40	4.50	2.81	2.07	1.68	2.26	2.44	4.26	32.32
Spruce Creek	.....	.....	.....	.....	1.91	5.37	2.68	5.21	2.15	1.20	2.62	3.44	.....
State College	4.18	0.22	1.03	2.23	2.21	6.74	3.11	3.70	1.75	1.03	1.74	2.75	30.69
*Stoystown	3.37	2.70	3.66	3.04	1.70	3.18	4.30	2.80	0.72	0.59	.....	.....	.....
Swarthmore	.....	.....	.....	5.53	2.04	.....	.....	.....	.....	3.15	1.73	2.20	.....
*Towanda	1.95	0.50	1.28	1.70	2.56	3.64	2.84	2.49	1.47	1.19	2.22	3.57	25.41
Uniontown	4.89	1.39	3.86	4.12	2.07	4.55	5.61	3.76	1.22	1.44	2.87	2.87	38.65
*Warren	3.22	0.94	1.42	3.05	2.36	2.70	2.92	4.65	2.12	1.82	5.73	2.61	33.54
Wellsboro	3.00	0.85	2.90	2.21	6.44	3.50	3.22	4.65	1.12	1.62	2.67	6.55	38.73
West Chester	4.95	1.61	3.44	5.37	3.30	2.47	1.73	2.28	0.62	2.58	1.55	3.13	33.03
*West Newton	3.96	0.80	2.10	3.54	2.11	2.58	3.19	3.53	0.69	0.72	3.17	3.18	29.57
Westtown	.....	1.02	.....	.....	3.34	3.74	.....	.....	[d]0.67	3.41	1.42	2.66	.....
Whitehaven	.....	.....	1.79	4.24	2.75	2.22	2.16	2.87	1.84	2.67	2.95	5.39	.....
*Wilkesbarre	3.43	2.32	2.94	2.71	4.16	2.89	2.59	4.97	1.59	2.51	1.37	4.13	35.61
Williamsport	.....	[f]0.59	1.16	2.17	3.37	4.99	1.93	2.38	2.12	1.13	1.95	2.35	.....
York	4.03	0.98	2.50	3.74	2.73	3.10	1.41	2.41	4.01	2.36	1.80	3.33	32.40
Rhode Island.													
*Block Island	4.12	1.13	4.76	6.15	4.08	1.80	8.57	4.27	1.46	4.62	5.81	2.44	49.21
Bristol	3.69	0.51	3.83	6.30	4.11	3.06	2.98	2.54	1.21	5.22	5.26	3.10	41.81
Kingston	5.94	1.75	4.00	6.54	4.28	3.83	5.36	2.70	1.29	7.89	4.25	2.45	50.28
Lonsdale	5.19	0.82	3.04	6.20	3.02	2.55	5.62	2.44	2.45	6.85	7.77	2.54	48.49
*Narragansett Pier	4.61	1.26	4.11	6.61	4.58	3.76	4.97	2.92	2.11	4.15	5.09	2.14	46.37
Pawtucket	5.29	1.40	3.17	6.02	3.21	2.49	5.33	2.40	2.43	5.89	8.56	2.91	48.20
Providence[4]	5.74	1.00	3.31	6.25	3.88	2.66	4.64	2.71	2.20	8.08	6.66	2.78	50.81
Providence[5]	5.91	1.50	3.41	6.67	3.81	2.76	5.07	2.93	2.43	8.03	6.88	2.82	52.22
South Carolina.													
*Allendale	.....	.....	.....	.....	5.72	1.94	4.97	11.18	1.32	0.09	1.99	.....	.....
*Anderson	8.08	2.34	6.62	4.06	4.77	0.80	2.42	6.96	0.99	0.66	3.75	3.94	45.39
*Batesburg	.....	.....	.....	.....	6.18	2.35	3.85	6.54	1.06	1.30	.....	.....	.....
*Blackville	7.70	4.37	5.91	3.78	4.22	2.83	6.73	9.70	0.11	2.25	1.34	2.89	51.83
Blenheim	5.68	4.03	5.57	6.86	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] J. E. Codman. [2] John Comly. [3] Knowles Croskey. [4] City engineer. [5] Ladd Observatory.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
South Carolina—Continued.													
Camden	8.09	3.12	6.36	6.05	3.05	7.04	2.68	7.48	0.92	1.68	1.79	2.94	51.20
Central	7.95	1.96	4.43	5.84	4.74	2.36	3.32	7.07	T.	1.55	2.28	1.25	42.75
*Charleston	7.68	4.47	5.22	4.21	5.63	4.25	6.46	5.08	6.94	0.77	2.44	2.03	55.18
*Cheraw[1]	6.69	2.70	6.24	6.15	2.70	3.29	0.73	8.51	0.54	2.07	1.77	3.41	44.80
*Cheraw[2]	7.90	3.69	7.03	7.10	3.76	3.62	1.27	9.63	0.65	2.35	2.20	4.19	53.39
*Columbia	7.27	3.25	6.38	5.91	3.80	3.59	5.50	9.57	1.47	1.48	1.71	3.27	53.20
Conway	10.10	3.90	4.68	6.61	5.57	3.54	5.52	9.10	2.88	0.47	2.61	1.88	56.86
Edisto	9.13	4.04	4.80	4.11	5.71	3.46	4.76	8.54	1.00	0.76	.....	2.69	.....
Effingham	7.27	4.16	5.02	6.08	3.51	3.63	4.45	5.67	1.86	1.90	1.46	2.62	47.63
*Florence	.....	.....	.....	.....	4.44	3.26	3.44	4.06	1.47	2.04	.....	2.38	.....
Georgetown	7.58	2.00	5.75	3.80	5.25	2.12	8.20	7.33	1.70	0.20	2.73	3.80	50.46
Gillisonville	.....	.....	4.26	4.61	2.69	2.60	4.10	7.02	2.70	0.56	3.15	1.64	.....
*Greenville	.....	.....	6.11	5.89	3.34	3.07	3.43	4.84	2.32	0.63	3.62	4.54	.....
*Greenwood	11.83	2.21	6.06	4.48	9.94	1.88	3.78	10.04	0.10	1.14	3.84	4.49	59.79
*Hardeeville	7.49	3.72	4.39	4.73	4.43	1.89	5.65	.....	.....	.....	.....	.....	.....
Holland	8.07	2.42	6.72	5.27	3.22	1.88	4.74	12.00	0.69	0.88	2.30	6.55	54.74
*Kingstree[1]	.....	.....	.....	4.06	4.04	4.48	3.98	9.04	1.09	0.46	1.82	1.74	.....
*Kingstree[2]	7.57	4.25	3.66	4.10	5.39	4.45	3.69	6.22	0.76	0.47	1.74	1.80	44.10
Little Mountain	6.13	2.39	4.04	7.64	4.49	1.90	7.24	4.91	0.12	1.30	2.45	4.41	47.02
Longshore	8.30	2.33	5.78	5.39	3.16	2.36	3.24	6.78	T.	1.14	2.33	4.03	44.84
McCormick	.....	.....	6.61	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Manning	.....	.....	.....	4.80	.....	4.10	.....	.....	.....	.....	.....	.....	.....
*Mount Carmel	6.83	1.98	7.02	4.87	4.41	1.69	3.15	11.33	0.85	0.74	2.11	4.41	48.89
Pinopolis	9.27	4.31	5.25	6.07	4.44	2.51	4.46	11.58	0.97	0.42	4.46	1.69	55.43
Port Royal	4.23	3.08	3.80	3.51	1.48	3.28	6.59	6.07	5.93	1.63	2.80	1.36	43.76
Redhill	.....	.....	.....	.....	.....	2.27	1.92	9.82	0.50	.....	.....	.....	.....
Ridgeway	5.00	2.45	6.40	6.25	3.62	5.95	1.35	7.81	0.50	1.30	1.55	2.27	44.45
*St. George	8.59	3.30	4.29	3.58	5.75	2.82	2.19	7.49	1.86	0.18	1.66	2.02	43.73
*St. Matthews	.....	.....	6.24	6.88	3.43	4.86	6.24	11.58	1.41	1.28	1.96	1.83	.....
St. Stephens	8.78	4.29	4.58	5.63	5.01	2.84	5.15	8.78	1.02	0.47	2.45	1.93	50.93
Santuck	7.47	2.61	4.07	5.58	3.78	2.20	1.55	7.11	1.08	0.89	4.43	4.38	45.15
Shaws Fork	5.70	1.20	7.25	3.10	4.60	.....	3.97	8.20	.....	0.25	0.40	2.50	.....
Society Hill	6.83	3.29	6.64	8.67	1.93	4.30	4.60	4.27	0.78	2.71	2.04	3.26	49.32
*Spartanburg	.....	.....	4.02	4.96	4.17	2.20	[d]2.90	6.18	0.34	0.39	3.00	[e]2.35	.....
Statesburg	8.44	3.88	6.01	9.80	4.03	4.90	5.62	4.77	0.83	1.75	1.77	2.71	54.51
Trenton	8.28	3.16	7.64	6.37	5.62	2.34	4.88	11.49	0.29	1.14	2.18	3.96	57.35
Trial	9.16	4.27	5.86	3.90	4.35	2.06	4.71	10.85	1.85	0.43	1.67	1.49	50.54
Watts	10.20	1.94	7.39	5.25	4.55	.....	.....	.....	.....	.....	.....	.....	.....
*Yemassee	.....	.....	.....	.....	.....	.....	.....	3.82	1.97	0.26	2.61	2.03	.....
Yorkville	5.88	1.56	5.55	5.25	2.62	3.10	3.46	4.69	1.26	1.10	3.18	4.75	42.40
South Dakota.													
Aberdeen	1.92	0.65	0.20	5.04	4.17	7.55	2.82	2.59	0.85	0.38	3.86	0.20	30.23
Alexandria	0.40	0.45	1.05	2.36	2.18	3.82	2.14	0.27	2.50	0.20	1.32	T.	16.67
Ashcroft	0.93	0.60	1.35	1.90	2.92	2.62	0.38	1.37	0.55	T.	0.50	0.05	13.19
Bowdle	0.85	0.80	1.25	2.75	1.73	4.82	2.18	1.04	0.00	0.60	.....	.....	.....
Brookings	0.25	0.17	0.66	2.41	3.50	3.84	3.79	2.15	3.24	0.00	1.02	0.03	21.06
Buffalogap	0.20	.....	0.95	0.35	3.55	[c]2.50	2.30	.....	.....	.....	[c]0.30	0.15	.....
Castlewood	0.34	0.22	0.14	1.52	3.55	3.19	2.79	1.37	2.20	0.24	2.05	0.10	17.71
Clark	.....	0.20	0.47	1.91	.....	.....	.....	.....	.....	.....	2.32	0.50	.....
Cross	0.24	0.27	2.81	2.29	3.42	6.28	0.86	1.16	0.32	0.03	1.00	0.08	18.76
Desmet	[b]0.50	.....	0.85	1.53	2.46	3.71	2.35	3.91	2.53	0.34	0.86	.....	.....
Edgemont	.....	.....	2.33	3.41	1.88	2.76	0.43	.....	0.28	0.10	0.80	0.10	.....
Farmingdale	0.10	0.26	0.37	1.49	2.67	4.16	0.52	0.50	0.15	0.00	0.58	0.02	10.82
Faulkton	.....	0.11	0.67	2.06	2.00	4.56	1.89	1.13	0.63	0.16	1.12	0.04	.....
Flandreau	0.47	0.10	0.39	2.64	6.65	5.23	2.05	1.48	3.82	0.40	1.23	0.05	24.51
Forestburg	0.35	0.01	0.70	1.89	1.04	3.45	0.71	1.66	1.73	0.25	1.24	0.07	13.10
Forest City	.....	.....	.....	.....	.....	.....	1.05	0.65	0.00	0.00	0.00	0.00	.....
Fort Meade	0.85	.....	.....	2.91	3.35	5.05	0.55	0.95	0.80	0.23	2.36	0.40	.....
Gary	0.25	0.50	0.00	2.11	2.68	2.41	2.36	2.61	2.32	0.12	1.76	0.16	17.28
Greenwood	0.34	0.24	1.05	4.57	2.39	6.56	0.97	1.57	3.66	0.02	1.01	0.02	22.40
Highmore	0.20	T.	0.74	2.08	1.66	3.73	0.86	1.06	0.70	0.22	1.15	0.00	12.40
Hitchcock	.....	.....	.....	2.48	1.27	3.01	0.61	0.30	1.40	.....	.....	.....	.....
Hotch City	0.20	0.66	0.76	3.00	0.86	4.75	1.12	1.51	0.53	T.	0.68	0.05	14.12
Howard	0.20	0.28	0.68	2.32	2.76	4.36	2.22	2.25	2.22	0.17	1.29	0.10	18.85
*Huron	0.91	0.71	1.03	2.03	1.83	2.57	1.63	2.81	1.84	0.22	1.30	0.20	17.08
Ipswich	0.70	0.30	0.03	.....	3.32	6.60	2.60	0.57	.....	.....	.....	.....	.....
Kimball	0.36	0.41	1.02	1.52	1.42	3.49	1.32	1.54	1.66	0.06	1.45	0.02	14.27
Leslie	.....	.....	0.08	0.04	0.16	3.67	0.50	0.55	0.40	0.00	0.02	T.	.....
Mellette	.....	.....	.....	.....	.....	5.22	2.94	0.98	[a]0.76	.....	.....	.....	.....
Millbank	0.20	.....	.....	2.50	1.93	3.56	2.63	0.40	1.50	[a]0.00	1.20	0.00	.....
Mitchell	.....	.....	0.95	.....	.....	.....	.....	.....	.....	.....	.....	0.05	.....
Northville	0.74	0.12	0.17	1.25	2.39	5.64	2.67	1.20	1.00	0.50	.....	T.	.....
Nowlin	.....	.....	.....	1.08	0.15	3.21	0.10	0.07	0.03	0.00	0.03	T.	.....
Oelrichs	1.50	1.80	2.21	T.	3.72	5.30	0.50	[a]0.65	0.44	T.	1.50	1.10	18.92
Parker	0.70	0.40	1.76	4.05	2.30	4.25	2.41	0.75	2.95	0.20	1.90	0.02	21.69
Parkston	0.24	0.45	1.05	2.81	1.74	2.99	1.47	1.29	2.82	[j]0.00	.....	0.00	.....
*Pierre	0.71	0.53	1.85	2.87	1.20	6.09	0.90	1.88	0.36	T.	0.45	0.01	16.85
Plankinton	0.20	0.24	1.28	2.93	1.49	5.22	1.63	0.97	2.51	0.10	0.70	T.	17.25
*Rapid City	0.25	0.27	1.95	1.53	2.66	6.22	0.39	0.69	0.36	0.02	1.03	0.11	15.48
Rochford	.....	.....	2.86	.....	.....	.....	.....	.....	.....	0.00	2.13	0.74	.....
Rosebud	1.20	0.40	0.92	2.74	1.28	3.99	0.59	0.86	0.67	T.	0.60	0.30	13.55
Shiloh	0.12	0.00	0.47	2.67	1.11	7.36	0.95	0.50	0.32	0.08	.....	.....	.....
Silver City	0.22	0.95	4.10	3.47	4.95	5.85	0.48	0.78	0.85	0.00	0.95	0.20	22.90
Sioux Falls	0.50	0.22	1.23	2.84	3.33	5.72	1.88	0.48	2.97	0.17	0.89	0.05	20.28
Spearfish	1.50	1.45	2.42	3.91	3.95	5.48	0.78	.....	.....	.....	.....	.....	.....
Tyndall	0.05	0.45	0.83	.....	2.25	3.52	1.78	1.52	4.40	T.	0.98	T.	.....

[1] Cotton region observer. [2] River observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), FOR 1895– Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
South Dakota—Continued.													
Vermilion	0.28	0.03	1.00	3.35	1.40	.....	.....	.....	.....	0.00	0.50	T.	.....
Watertown	0.50	.....	0.10	1.87	2.09	3.83	2.28	1.30	1.60	0.37	1.17	T.	.....
Webster	0.77	0.64	0.13	1.68	2.22	5.09	2.89	1.79	1.30	0.21	4.89	1.43	23.04
Wentworth	0.38	0.19	0.64	2.33	3.61	4.17	2.56	3.20	2.79	0.00	1.06	0.03	20.96
Wessington Springs	0.47	0.42	1.32	2.32	1.65	3.68	1.42	2.83	1.39	0.29	0.87	0.07	16.73
Yankton	0.34	0.35	.....	.....	3.17	.....	2.89	1.05	4.36	0.10	1.24	0.05	.....
Tennessee.													
Andersonville	4.64	1.64	3.19	3.00	5.80	3.06	4.80	3.75	1.89	2.25	1.99	2.95	38.96
*Arlington	.....	.....	.....	.....	2.27	2.02	7.57	0.49	0.32	1.60	.....	.....	.....
Ashwood	4.50	0.58	6.11	3.53	1.20	0.70	8.07	3.07	5.20	2.10	2.40	4.44	42.50
*Bolivar	5.06	0.76	8.17	.....	1.54	0.93	5.77	0.95	0.61	1.73	4.37	3.79	.....
Bristol	5.59	1.93	4.00	1.63	3.22	3.48	.....	4.12	0.05	2.06	2.36	1.59	.....
*Brownsville	.....	.....	.....	.....	2.12	2.59	5.05	1.26	0.06	0.97	.....	.....	.....
Byrdstown	8.10	1.85	5.27	5.12	4.76	2.37	9.27	4.30	1.34	2.88	2.15	5.42	52.83
*Chattanooga	6.58	2.14	5.86	3.64	3.52	5.69	6.71	4.40	1.00	2.00	1.71	3.11	46.36
*Carthage	6.30	0.95	5.66	7.42	2.43	2.26	5.72	4.22	4.60	2.14	2.20	5.32	49.22
Clarksville	5.83	0.87	4.17	3.80	2.74	2.77	[f]7.88	.....	2.78	1.51	4.68	5.08	.....
*Clinton	7.84	2.05	4.92	3.96	3.50	3.55	5.03	4.29	0.65	1.45	2.03	3.74	43.01
*Columbia	5.66	1.05	5.68	2.74	1.62	0.78	5.94	2.32	4.10	1.95	.....	.....	.....
*Covington	.....	.....	.....	.....	2.51	2.33	7.90	1.03	0.25	[d]0.93	7.52	4.02	.....
*Dyersburg	.....	.....	.....	.....	2.78	0.73	4.77	1.99	1.06	1.01	7.66	3.76	.....
Elizabethton	.....	.....	.....	2.37	3.92	3.32	9.54	2.89	0.64	1.88	1.99	1.95	.....
Florence	6.38	0.81	5.26	6.12	1.34	1.97	5.02	3.13	2.19	1.78	2.02	5.38	41.40
Franklin	6.55	1.07	6.20	5.53	3.11	0.90	.....	.....	2.87	1.97	2.47	5.42	.....
Greeneville	4.93	1.97	5.64	2.35	3.77	2.33	6.15	2.96	3.29	1.83	2.11	3.05	40.38
Harriman	5.96	0.97	4.82	3.99	.....	.....	.....	.....	.....	.....	0.78	.....	.....
Hohenwald	6.03	1.07	6.86	2.32	2.58	1.46	7.33	2.81	0.85	1.77	2.47	5.08	40.63
Jacksboro	5.60	1.43	4.43	4.39	4.30	2.63	6.29	3.50	2.67	2.17	2.06	.....	.....
Jackson	4.45	0.90	6.46	3.38	1.90	2.43	5.74	5.37	.....	1.20	4.14	3.20	.....
*Johnsonville	5.89	0.92	5.40	2.50	1.93	3.08	7.92	0.99	1.75	1.16	3.45	4.41	39.40
Kingston	7.90	4.50	2.21	.....	.....	.....	.....	.....	.....	.....	.....	3.54	.....
*Knoxville	6.72	1.95	4.65	3.36	5.63	3.39	4.50	1.89	0.59	1.24	1.90	2.93	38.75
*Loudon	7.17	2.00	6.35	4.55	4.70	5.30	.....	4.25	2.05	2.05	2.45	3.71	.....
Lynnville	7.10	1.22	7.36	4.00	6.32	1.62	6.05	8.20	7.48	2.84	1.80	5.46	59.45
McMinnville	4.43	1.60	5.37	6.15	5.65	2.30	6.73	2.30	2.65	1.65	2.85	4.27	45.95
*Memphis	5.94	1.39	7.01	2.32	0.46	2.31	6.99	0.64	0.73	2.17	5.54	3.09	38.59
*Milan	.....	.....	.....	.....	2.80	0.77	4.18	1.87	1.91	1.05	.....	.....	.....
Mountcarmel	6.96	0.65	6.90	1.88	4.68	2.73	8.01	0.50	0.36	1.41	7.39	4.80	46.27
*Nashville	5.71	0.98	5.09	3.07	2.65	2.90	7.14	1.40	6.69	1.57	2.14	4.09	42.83
Newport	5.69	1.89	5.80	3.02	5.03	2.22	5.31	6.42	1.22	1.79	1.95	2.74	43.09
Nunnelly	6.24	1.30	6.49	3.36	1.77	3.13	6.91	1.34	1.40	1.94	1.95	4.55	40.38
Palmetto	6.74	1.60	5.31	3.79	3.01	2.03	5.57	1.55	4.29	1.78	2.24	5.41	43.32
Parksville	8.91	2.90	4.48	3.77	3.90	4.57	.....	.....	.....	.....	.....	.....	.....
Riddleton	5.31	1.18	3.81	6.23	1.01	3.50	.....	2.99	2.47	2.24	2.16	5.16	.....
*Rockwood	7.58	1.33	5.07	5.03	3.06	2.18	5.68	3.42	2.97	1.70	1.83	3.86	43.71
*Rogersville	4.08	2.05	5.93	1.87	3.09	1.71	8.70	2.24	0.99	1.19	2.48	[b]2.11	36.44
Rugby	8.37	1.73	6.14	6.93	6.45	1.92	4.93	2.10	1.53	2.47	2.31	5.04	49.92
St. Bethlehem	5.38	0.60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Savannah	.....	.....	[d]4.63	1.67	1.22	4.10	6.56	3.25	2.00	.....	.....	.....	.....
Sewanee	.....	.....	.....	.....	2.83	2.45	.....	.....	.....	4.20	1.53	3.57	.....
Springdale	7.86	1.60	4.90	3.40	2.21	2.25	10.83	2.00	[f]3.25	2.27	2.64	3.07	46.28
*Strawberry Plains	6.65	1.80	4.65	.....	.....	.....	.....	.....	.....	.....	.....	3.31	.....
Trenton	.....	.....	6.36	0.91	1.83	1.81	4.59	0.03	1.62	0.77	7.23	3.95	.....
Tullahoma	7.45	1.50	8.50	4.25	2.45	5.30	5.50	3.30	2.35	2.15	2.40	7.35	52.50
Waynesboro	4.54	0.85	5.82	2.69	1.21	3.68	6.15	2.96	1.05	2.40	1.70	4.42	37.47
Texas.													
*Abilene	1.15	2.32	0.15	2.30	1.96	8.40	4.63	1.27	3.95	4.13	2.38	2.66	35.30
Albany	1.22	2.75	0.62	1.90	0.89	7.03	6.23	1.34	4.55	3.19	2.24	3.20	35.16
Alice	.....	2.45	1.20	.....	.....	.....	0.00	.....	.....	.....	2.55	0.00	.....
*Amarillo	1.60	1.92	0.16	1.31	1.78	6.84	2.88	3.87	0.57	2.26	0.81	0.79	24.79
Angleton	.....	.....	.....	.....	.....	5.13	1.47	4.49	1.96	3.25	9.35	3.60	.....
*Arthur City	2.39	0.17	4.65	1.97	5.29	8.10	7.13	2.55	0.65	0.76	2.42	5.13	.....
Aurora	1.62	0.30	1.20	2.20	3.65	6.94	3.32	0.75	0.00	2.00	3.68	3.35	41.21
Austin	1.30	0.80	.....	.....	14.10	1.80	0.00	1.10	2.80	2.90	3.10	2.05	.....
*Belton	.....	.....	.....	.....	[d]5.09	5.50	1.48	0.96	.....	.....	.....	.....	.....
Boerne	1.48	4.02	2.09	0.51	6.30	4.76	0.16	1.22	4.30	1.55	4.75	0.81	31.95
Brady	1.12	1.26	0.13	2.32	6.45	2.83	3.04	[d]1.15	1.19	3.03	3.50	1.91	27.93
Brazoria	1.53	5.86	2.03	0.69	8.66	7.36	0.93	4.26	2.68	2.84	7.99	4.49	49.32
*Brenham	2.00	2.26	3.04	2.24	12.54	7.07	2.99	0.88	0.18	3.56	2.47	1.71	40.94
Burnet	1.29	1.82	1.53	3.16	5.74	2.16	1.81	3.92	1.70	3.47	3.35	1.30	31.25
Camp Eagle Pass	0.20	1.75	2.55	0.40	4.80	3.40	0.00	3.32	5.95	0.21	2.15	0.00	24.73
Chillicothe	.....	.....	.....	.....	3.00	6.90	8.80	1.00	0.00	4.55	0.25	0.32	.....
Coldwater	[b]0.35	[c]0.13	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.80	.....
Coleman	1.20	1.93	0.25	3.83	5.92	6.46	4.74	5.61	2.16	2.97	1.04	1.42	37.53
College Station	1.45	1.63	2.22	1.71	12.44	5.25	1.51	2.81	1.12	3.35	4.67	2.18	40.34
Colmesneil	.....	1.69	5.12	1.45	.....	.....	.....	.....	1.98	3.89	4.55	.....	.....
*Columbia	2.05	5.53	0.40	0.37	7.47	6.88	0.04	4.63	3.76	2.47	7.19	2.69	43.48
*Corpus Christi	0.31	3.49	1.43	2.41	5.57	3.80	9.00	1.17	1.68	1.08	4.14	0.64	25.72
Corsicana[1]	1.92	2.62	1.30	3.40	5.39	6.13	.....	0.86	0.55	6.54	4.46	3.01	.....
*Corsicana[2]	1.58	1.53	2.78	3.31	6.89	5.58	5.89	1.63	2.37	4.61	6.10	3.41	45.68
*Cuero	0.82	3.13	1.15	0.31	4.18	8.50	0.04	0.22	3.43	3.60	3.83	0.97	30.18
*Dallas	2.67	0.58	1.79	2.38	7.53	8.00	3.61	1.54	3.68	1.35	3.84	3.17	40.14
Dean	.....	.....	.....	.....	1.03	4.84	.....	5.39	[b]0.00	[b]2.50	[b]0.65	0.10	.....
Devine	.....	5.05	0.95	0.64	4.90	2.01	T.	.....	1.25	1.30	.....	.....	.....
Durham	0.80	1.70	0.23	1.61	2.09	3.78	5.99	0.55	T.	1.06	2.00	.....	.....
Duval	0.70	1.45	0.95	2.50	9.80	4.56	T.	1.29	1.25	3.92	4.38	1.25	32.05

[1] W. H. Hamilton. [2] Cotton region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Texas—Continued.													
*El Paso	0.65	0.17	0.05	T.	2.11	0.21	2.48	2.01	0.28	0.88	1.05	0.31	10.20
Estelle	1.47	0.50	1.68	2.85	4.88	8.21	6.00	1.18	0.37	2.32	4.61	2.53	36.60
Flower Bluff	0.54	3.45	0.85	4.41	6.41	1.89	0.00	.....	.....	.....	2.97	0.10	.....
Forestburg	0.90	0.10	2.12	5.62	4.03	5.07	7.28	0.92	0.30	0.98	4.02	2.41	33.75
Fort Brown	0.47	1.10	1.60	0.00	3.26	0.70	0.02	2.98	5.72	0.79	1.84	0.72	19.20
Fort Clark	0.17	2.65	0.74	0.34	5.05	2.10	0.78	1.96	1.68	0.55	2.07	0.19	18.28
Fort Hancock	0.70	0.00	0.00	0.06	1.42	0.24	4.75	2.38	0.00	.....	.....	.....	.....
Fort McIntosh	T.	0.94	0.60	T.	2.72	1.65	0.00	2.34	0.86	2.00	0.86	0.00	11.97
Fort Ringgold	0.40	1.43	0.64	0.02	4.80	5.78	0.00	3.05	3.80	0.00	1.19	0.00	21.11
Fort Stockton	0.81	0.42	0.20	0.00	.....	2.32	6.23	6.26	6.79	1.23	1.18	0.56	.....
Fort Worth	2.37	.....	0.73	2.68	5.24	8.68	4.40	0.54	1.91	2.35	2.45	.....	.....
Fredericksburg	1.30	3.62	1.85	1.63	8.64	3.40	T.	2.50	2.46	1.56	4.74	1.51	33.21
Gainesville	.....	.....	.....	.....	5.58	3.79	7.13	0.42	0.75	1.19	3.97	.....	.....
*Galveston	1.24	4.93	2.77	0.33	5.13	1.91	3.07	4.51	1.86	2.93	5.95	4.28	38.91
Georgetown	.....	.....	.....	.....	.....	.....	.....	2.19	1.93	3.60	4.01	1.44	.....
Gulindo	1.30	1.95	1.10	2.45	12.00	5.15	4.35	1.90	2.50	2.95	4.25	3.10	42.00
Graham	1.02	0.96	2.41	2.70	3.11	10.99	3.65	1.64	0.73	1.88	4.17	3.46	36.52
Grapevine	2.93	0.29	1.47	2.56	6.59	12.54	7.03	1.86	0.69	2.05	5.49	2.24	45.71
Hale Center	0.35	0.50	T.	0.50	0.75	8.51	7.12	2.34	0.20	3.40	0.80	0.17	24.64
Hallettsville	1.09	3.09	1.10	0.89	11.50	8.16	0.41	1.01	3.02	2.32	3.01	1.08	36.68
Happy	0.51	1.90	0.20	0.24	1.27	3.88	4.94	5.03	0.60	3.85	0.77	0.25	23.44
Hartley	0.24	1.08	0.02	0.05	.....	.....	.....	.....	.....	.....	.....	.....	.....
Haskell	1.20	1.52	0.00	2.45	1.99	6.70	6.23	0.00	0.01	2.57	2.10	2.12	26.89
*Hearne	.....	.....	.....	.....	15.86	4.30	0.15	[c]2.45	0.98	5.75	.....	.....	.....
Hewitt	1.90	1.55	1.33	2.82	7.83	7.95	6.25	4.10	0.85	4.20	5.00	2.15	45.93
*Houston	1.89	4.08	1.80	1.38	8.76	5.63	0.84	3.37	0.68	1.92	4.91	1.77	36.05
*Huntsville	3.06	4.75	3.49	2.40	13.06	7.74	1.25	0.89	1.10	5.41	2.60	2.70	48.45
Kent	1.44	1.14	0.00	0.00	1.30	0.86	3.11	4.36	3.01	1.55	2.08	0.58	22.43
Lampasas	2.21	2.93	1.05	6.17	5.24	5.65	0.72	1.55	0.72	4.28	3.20	1.19	34.89
Leakey	1.30	2.70	1.50	0.40	5.40	3.90	0.00	7.00	2.20	0.50	2.67	0.92	28.49
Llano	1.10	2.30	1.10	2.70	4.40	1.40	0.60	2.40	1.80	2.30	1.80	0.75	22.65
*Longview	7.44	1.84	3.92	1.49	8.09	10.76	5.70	1.43	0.01	3.59	2.66	3.26	50.19
*Luling	0.94	1.92	2.80	0.35	8.04	7.61	0.03	2.31	0.92	1.48	3.48	1.32	31.20
McGregor	1.72	1.33	0.81	2.74	7.50	6.69	.....	.....	.....	.....	.....	.....	.....
Marshall	7.66	4.64	3.60	1.00	11.80	4.00	11.75	1.45	0.70	4.25	5.70	6.10	62.65
Menardville	0.85	1.70	0.00	0.76	3.87	1.73	2.42	1.78	2.21	2.75	2.33	1.21	21.61
Midland	0.70	1.49	0.00	0.00	4.90	2.89	3.58	1.69	2.45	0.60	1.70	1.00	20.91
Mountain Spring	1.25	0.20	2.90	4.08	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mount Blanco	0.50	3.53	T.	1.02	2.12	5.22	5.29	1.10	0.00	0.33	0.14	T.	19.25
New Braunfels	1.38	2.75	2.38	0.32	7.51	9.39	T.	1.93	0.60	1.17	4.15	1.03	33.02
Ochiltree	0.08	2.12	0.12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Orange	1.80	5.07	2.30	0.08	1.90	3.19	5.08	5.18	0.14	3.24	4.21	3.07	33.26
*Palestine	2.42	2.50	2.52	2.35	11.38	5.29	3.85	0.06	1.05	3.73	4.23	4.34	43.72
Panter	[g]1.75	[h]0.37	1.13	2.83	5.77	[g]11.33	3.74	2.72	3.01	.....	2.81	.....	.....
*Paris	.....	0.03	3.98	2.00	5.43	8.51	9.45	0.26	1.99	0.84	3.26	5.25	.....
Roby	1.20	3.38	0.20	5.17	3.32	4.81	12.07	0.15	0.78	2.07	3.76	1.29	38.20
Rocksprings	0.74	2.60	[f]0.17	2.56	5.93	0.67	2.13	1.64	3.85	0.08	1.82	0.69	23.48
Roundrock	1.65	0.40	0.06	1.90	.....	1.75	0.00	1.19	1.33	3.50	.....	.....	.....
Runge	.....	.....	.....	1.01	7.11	5.61	0.60	1.76	2.25	2.10	2.96	0.86	.....
*San Antonio	1.24	3.97	2.24	0.29	6.66	2.09	1.07	1.90	1.25	1.43	3.38	0.55	26.07
San Antonio[1]	1.18	3.93	1.91	0.30	6.75	1.99	0.75	2.11	1.14	1.40	3.40	0.40	25.26
San Marcos[1]	1.30	2.27	1.41	1.39	9.94	6.61	0.05	1.36	1.64	2.30	4.26	1.27	33.80
*San Marcos[2]	.....	1.40	1.53	1.41	10.55	6.63	T.	1.70	1.89	2.43	.....	1.83	.....
*Sherman	2.64	.....	.....	.....	[g]7.70	.....	.....	[b]1.18	.....	1.78	.....	.....	.....
Sierra Blanca	0.35	0.00	0.00	0.00	0.00	0.00	2.42	1.77	1.93	1.70	1.32	0.45	9.94
Stafford	2.32	4.54	0.74	1.45	6.11	[i]5.17	0.82	3.65	1.70	2.07	6.60	2.00	37.17
Sulphur Springs	4.58	3.10	6.00	1.10	8.73	6.76	10.25	0.85	1.43	2.06	6.11	5.21	56.18
Temple	2.70	1.45	1.05	2.90	4.94	4.07	1.37	3.10	3.15	5.36	4.48	2.41	36.98
Twohig	.....	.....	.....	.....	.....	.....	0.00	3.45	.....	1.10	1.71	[e]0.10	.....
*Tyler	0.44	0.23	2.37	1.63	5.80	5.70	5.84	0.71	0.39	3.86	2.27	3.23	32.47
Victoria	0.85	2.85	1.11	.....	8.26	12.84	.....	.....	.....	.....	.....	.....	.....
*Waco	2.20	2.01	1.23	3.91	10.38	7.03	2.47	3.74	1.55	4.20	4.95	2.03	45.70
*Weatherford	1.81	0.33	1.41	3.26	5.57	7.23	5.24	4.43	1.35	2.67	2.66	2.15	38.11
*Wichita Falls	0.60	0.90	1.49	1.43	0.99	8.30	4.97	0.72	T.	2.70	3.04	2.93	28.07
Utah.													
Alpine	2.17	1.17	0.98	1.62	.....	.....	.....	.....	.....	.....	.....	.....	.....
Blue Creek	1.55	0.20	0.70	0.10	0.20	0.20	T.	0.00	.....	0.00	0.50	0.25	.....
Brigham City	2.63	0.71	3.19	.....	2.10	0.92	0.23	0.00	0.61	.....	2.23	.....	.....
Castlegate	.....	1.00	[k]1.40	0.30	.....	.....	.....	.....	.....	.....	1.42	0.80	.....
Cisco	0.53	0.67	1.08	T.	0.40	0.42	0.57	0.24	0.14	0.99	0.53	T.	5.57
Corinne	1.30	0.20	1.60	0.25	1.60	0.45	0.12	0.00	0.48	T.	.....	0.70	.....
Deseret	0.40	0.53	0.63	0.84	.....	T.	[h]T.	[e]T.	0.80	0.45	0.84	0.38	.....
Emery	3.90	1.80	0.40	T.	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fillmore	1.93	2.15	2.06	1.23	1.51	0.80	0.56	0.97	1.66	0.93	1.46	1.10	16.36
Fort Duchesne	0.09	0.03	0.09	0.00	1.53	1.02	0.17	0.20	0.03	0.13	0.90	0.31	4.50
Giles	[k]0.26	0.51	T.	T.	0.10	0.12	0.14	0.17	0.35	1.04	0.42	T.	3.11
Glendale	2.60	2.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Green River	0.75	.....	.....	.....	0.50	.....	0.00	0.12	.....	.....	.....	.....	.....
Grouse Creek	1.71	0.90	0.36	0.08	0.62	0.25	0.12	0.52	0.19	0.00	.....	.....	.....
Grover	0.40	0.70	0.02	0.03	1.22	0.60	2.29	1.09	0.13	1.28	1.25	T.	9.21
Heber	3.22	1.93	1.45	0.48	1.54	0.25	1.37	T.	0.50	0.40	0.60	.....	.....
Huntsville	3.85	0.97	2.07	0.12	2.05	0.54	0.90	0.17	0.92	T.	2.07	1.54	15.10
Kelton	0.30	0.00	0.05	0.00	0.00	0.00	0.71	0.00	0.20	T.	0.05	0.15	1.46
Koosharem	0.98	0.87	0.39	0.16	0.96	0.90	1.41	1.42	0.46	0.51	2.00	0.19	10.16
Levan	1.60	2.20	3.50	5.10	7.18	0.28	0.84	1.04	0.91	0.89	1.63	0.95	26.12

[1] G. A. Duerler, jr. [2] G. W. Knight. [3] Cotton region observer.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Utah—Continued.													
Loa	1.42	1.00	0.35	0.05	0.16	0.16	0.71	0.39	0.77	1.00	0.50	.....	.....
Logan	2.13	0.45	1.71	1.05	2.27	0.51	0.56	0.18	1.96	0.04	1.70	0.95	13.51
Manti	2.00	1.10	1.70	0.07	0.90	0.07	0.85	0.76	0.40	0.12	1.25	0.70	9.92
Millville	2.09	0.82	2.50	.....	2.50	0.99	0.24	0.04	2.28	0.13	2.43	1.42	.....
Moab	0.64	0.89	1.57	0.02	0.35	0.12	1.14	0.11	0.36	0.47	1.38	0.35	7.40
Moroni	.....	1.50	0.99	.....	0.91	0.79	1.00	0.54	0.45	0.67	1.47	0.32	.....
Mount Pleasant	1.90	1.70	2.00	0.80	1.20	0.00	1.10	0.22	0.65	0.52	1.90	1.00	12.99
Ogden[1]	1.85	0.15	1.60	0.10	2.35	0.68	0.36	0.10	0.50	.....	1.71	0.85	.....
Ogden[2]	2.61	0.96	2.17	0.73	1.80	0.40	.....	.....	0.67	.....	.....	.....	.....
Orton	.....	.....	.....	.....	.....	1.50	0.50	0.58	T.	.....	.....	.....	.....
Pahreah	1.26	1.70	0.10	0.05	1.30	1.50	0.60	1.50	1.00	0.90	1.50	0.25	11.66
Parowan	1.94	2.82	1.93	0.47	0.87	0.06	0.70	0.23	0.29	0.58	1.28	0.90	12.07
Promontory	0.80	0.60	1.50	0.70	1.05	0.00	T.	0.00	0.00	0.00	0.80	0.50	5.95
Provo City	.....	[c]2.00	1.15	0.19	2.27	0.21	.....	0.21	0.03	0.20	.....	1.37	.....
St. George	1.99	1.21	0.84	0.32	0.54	0.04	0.06	0.00	0.02	0.12	1.01	0.35	6.50
*Salt Lake City	1.32	0.85	0.81	0.73	2.29	0.99	0.42	0.02	0.95	0.24	2.44	0.89	11.95
Santaquin	.....	0.30	1.50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Scipio	0.58	.....	2.12	.....	.....	0.33	0.42	0.28	0.38	0.83	1.35	0.80	.....
Snowville	2.15	0.42	1.08	0.76	1.32	0.17	0.25	0.08	0.39	[d]0.00	1.30	0.50	8.42
Soldier Summit	3.50	1.08	1.40	0.32	0.62	0.29	0.34	0.32	0.37	0.17	1.90	1.65	11.96
Terrace	0.40	0.43	0.50	0.00	4.00	0.50	0.02	0.00	0.00	0.00	0.42	0.42	6.69
Thistle	0.82	1.30	0.70	0.91	0.35	.....	0.51	.....	.....	T.	1.61	.....	.....
Vernal	1.00	0.54	1.30	0.08	1.51	0.53	0.76	0.40	0.38	1.03	1.33	0.27	9.13
Vermont.													
Brattleboro	2.73	0.66	1.95	4.18	1.26	3.88	2.11	2.40	3.37	2.25	3.86	3.80	32.45
Burlington	1.31	1.16	0.77	1.65	3.79	2.78	2.46	4.84	3.64	0.23	4.32	1.74	28.69
Chelsea	.....	.....	.....	.....	.....	2.60	2.30	3.49	2.40	0.91	5.91	3.78	.....
Cornwall	1.45	1.40	0.90	2.05	4.10	2.10	2.80	5.88	2.17	1.15	4.88	2.05	30.93
Enosburg Falls	1.70	2.15	0.85	2.59	4.61	4.14	3.00	3.37	2.20	0.56	6.24	4.29	35.70
Hartland	2.26	1.26	1.87	6.00	1.61	2.08	4.05	3.28	3.35	2.46	5.84	4.42	38.48
Irasburg	2.48	1.75	1.54	3.68	3.90	4.14	2.31	4.17	2.62	0.83	5.95	3.20	36.37
Jacksonville	4.10	1.41	2.12	6.31	1.24	2.99	3.56	2.49	3.33	5.21	4.65	4.72	42.13
*Northfield	1.99	0.82	1.36	4.60	3.38	2.11	2.82	4.64	2.60	0.45	5.68	4.75	35.20
Norwich	1.53	0.76	1.52	4.50	1.98	2.95	4.22	3.92	2.79	1.46	5.38	3.95	34.96
St. Johnsbury	1.89	0.71	1.65	3.55	3.15	2.98	3.19	4.20	3.16	0.51	6.08	3.82	34.89
Simonsville	1.80	0.62	1.62	4.40	1.24	1.87	3.06	4.13	3.80	2.78	3.39	3.73	32.44
Strafford	1.90	1.51	1.39	3.11	2.60	2.17	2.08	2.82	2.40	1.78	4.86	5.11	31.73
Vernon	5.18	0.76	2.00	5.81	1.25	2.44	2.97	3.61	3.80	3.99	5.13	2.91	37.85
Wells	1.38	0.95	1.78	3.36	2.63	2.81	5.06	5.07	2.71	1.03	5.25	3.20	35.23
Woodstock	2.21	0.73	1.77	7.15	2.46	2.09	3.25	2.70	2.91	1.46	5.36	4.84	36.93
Virginia.													
*Abingdon	3.86	1.29	2.25	1.16	4.64	2.67	8.54	3.73	1.29	1.60	2.77	.....	.....
Alexandria	5.12	1.76	1.67	4.44	.....	3.73	3.96	1.08	1.36	1.56	0.69	0.58	.....
Ashland	.....	1.32	2.98	6.90	9.18	2.95	3.09	0.49	0.13	1.55	2.62	1.78	.....
Avon	5.00	1.80	2.06	8.56	5.71	3.28	3.36	.....	.....	[f]1.12	2.88	4.35	.....
Bedford City	3.62	2.05	3.19	4.90	4.35	2.39	3.80	2.46	0.25	1.46	2.04	3.83	34.34
Bigstone Gap	6.83	1.48	5.73	2.23	4.13	4.40	6.62	5.25	1.97	2.20	2.81	3.35	47.00
Birdsnest	3.95	4.00	5.00	5.25	8.25	2.00	4.95	1.70	1.70	4.15	2.45	3.30	46.70
Blacksburg	6.29	1.86	2.49	3.67	3.93	2.67	5.93	1.59	0.79	1.38	1.44	3.41	35.45
*Buchanan	7.38	1.37	2.87	3.81	2.77	1.55	4.01	2.53	1.20	0.70	3.12	.....	.....
Buckingham	5.37	1.73	.....	.....	4.34	2.69	.....	.....	.....	.....	1.86	1.77	.....
Callaville	3.56	1.78	4.55	9.61	3.14	2.59	7.85	3.40	2.24	1.52	2.09	2.31	44.64
Cape Charles	3.10	3.40	4.36	3.02	3.29	2.33	.....	.....	.....	.....	.....	.....	.....
*Cape Henry	5.32	1.93	4.13	5.59	5.03	4.77	2.97	3.82	0.00	2.13	4.07	6.29	46.95
Charlottesville	.....	1.61	3.38	7.14	4.89	2.96	1.77	2.51	.....	2.28	1.77	3.51	.....
*Christiansburg	4.96	1.51	2.86	.....	2.48	2.01	4.95	1.48	2.04	1.03	1.71	1.97	.....
*Clarksville	.....	.....	3.95	9.86	3.52	2.84	4.48	5.22	.....	.....	.....	.....	.....
Dale Enterprise	4.40	1.06	2.08	3.88	3.07	2.98	5.01	1.54	0.20	1.10	1.42	2.76	29.50
*Danville	.....	.....	3.43	6.95	3.85	2.02	5.86	2.23	.....	.....	.....	.....	.....
Fredericksburg	.....	.....	3.51	5.59	5.20	5.40	5.18	1.69	0.53	2.00	1.56	1.12	.....
Grahams Forge	6.38	2.39	3.07	4.45	2.05	2.54	4.47	4.72	.....	.....	.....	.....	.....
Hampton	3.87	2.38	4.23	5.62	[7.30]	6.20	4.71	2.18	0.45	2.63	2.72	3.08	[45.37]
Hot Springs	4.59	2.04	.....	.....	.....	.....	3.03	.....	0.36	0.55	0.80	.....	.....
Irwin	.....	1.30	3.17	5.53	3.93	1.00	5.06	0.91	0.74	2.31	2.00	1.25	.....
Lexington	7.25	1.30	2.75	3.33	2.51	2.59	3.56	1.03	0.91	1.01	1.99	2.93	31.16
*Lynchburg	7.27	1.50	3.43	5.45	5.02	2.05	2.94	1.63	0.56	1.58	1.93	2.80	36.16
Manassas	.....	.....	.....	.....	.....	5.44	5.92	0.85	0.84	1.80	1.14	2.37	.....
Marion	4.68	1.90	2.70	3.37	4.03	4.92	7.51	5.17	0.40	1.79	1.98	3.87	42.32
Monterey	4.02	0.76	2.68	4.70	5.35	1.07	5.11	2.08	1.65	0.16	[f]1.30	4.54	33.42
*Norfolk	4.30	2.62	5.36	6.07	8.60	2.39	4.36	2.58	0.19	1.99	3.41	3.54	45.41
Nottoway	4.60	2.01	3.99	7.64	4.12	3.86	3.92	1.98	0.93	2.23	2.58	2.11	39.97
Petersburg	3.99	1.61	5.33	7.55	4.85	1.95	5.00	2.36	0.34	1.80	2.76	2.13	39.67
*Richmond	5.09	1.83	4.84	7.10	5.11	1.88	4.29	2.93	0.70	2.54	2.77	.....	.....
Richmond (near)	5.14	1.78	4.60	7.91	5.05	2.07	5.28	2.06	0.43	2.52	3.77	2.09	42.70
Rockymount	4.89	1.75	4.03	5.24	4.87	3.81	4.83	1.75	T.	2.29	6.45	3.70	43.61
Salem	6.73	1.85	3.35	4.73	3.67	2.31	6.97	4.66	1.59	0.76	1.85	3.76	42.23
Saltville	.....	.....	.....	.....	3.70	3.92	8.39	6.30	0.28	1.97	1.74	2.78	.....
Smithville	5.38	2.50	2.71	4.77	3.16	2.66	2.47	1.83	0.40	2.35	1.38	1.12	30.73
Spottsville	4.03	2.27	5.40	5.87	5.05	3.43	4.15	2.46	0.40	1.90	2.27	2.45	39.68
Stanardsville	5.72	0.89	2.45	4.57	4.74	4.39	3.59	3.09	0.67	1.83	2.03	3.72	37.69
Staunton	5.97	1.43	2.53	4.21	3.87	5.76	4.71	2.64	0.44	1.02	1.85	3.34	37.77
Stephens City	4.53	1.59	3.55	3.68	3.66	5.21	4.49	2.06	1.09	1.13	1.02	3.34	35.35
Sunbeam	3.85	2.48	5.26	6.34	5.62	5.16	7.91	4.23	0.05	2.49	2.40	2.74	48.53
Warsaw	4.83	1.15	3.72	5.25	4.95	1.72	4.85	1.27	1.31	[g]1.56	4.08	2.80	37.49
Whittles Depot	6.98	1.55	4.24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wytheville	4.70	1.75	2.70	2.27	.....	.....	.....	.....	.....	0.89	2.08	.....	.....

[1] Pacific Railway system.

[2] W. W. Crossman.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Washington.													
Aberdeen	10.89	5.00	6.95	7.93	7.27	0.63	0.90	.....	.....	0.30	9.18	21.08	.....
Anacortes	2.82	3.24	1.34	2.80	0.82	1.14	0.20	0.26	0.94	.....	2.86	6.12	.....
Ashford	7.05	2.88	.....	4.48	6.55	1.64	.....	0.10	3.27	0.53	7.45	13.10	.....
Blaine	6.97	7.20	2.81	2.58	3.53	2.00	0.14	0.40	4.62	0.48	4.82	6.88	42.43
Bridgeport	1.75	0.20	0.10	0.51	0.95	T.	0.05	0.00	.....	.....	.....	.....	.....
Cascade Tunnel	13.04	7.23	4.20	4.08	6.52	1.32	0.49	0.05	5.64	0.20	6.98	[c]16.50	66.25
Centerville	3.85	0.70	0.08	0.52	0.98	.....	0.32	0.00	.....	0.01	1.05	4.06	.....
Colfax	3.31	0.98	0.91	0.51	1.63	0.30	0.71	0.03	1.55	T.	2.24	3.22	15.39
Conconully	0.75	0.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dayton	.....	.....	.....	1.12	.....	.....	.....	0.09	1.68	0.00	2.35	.....	.....
*East Clallam	15.44	5.96	12.40	10.38	7.97	0.40	1.24	0.18	2.57	0.81	7.50	25.50	90.35
Eastsound	3.36	1.86	1.05	1.48	1.91	.....	0.24	0.34	1.36	0.56	3.33	6.73	.....
Elbe	.....	.....	3.96	.....	.....	.....	.....	.....	.....	0.12	.....	.....	.....
Ellensburg	2.37	0.25	0.02	0.18	0.62	T.	T.	T.	0.98	0.00	0.20	2.25	6.87
Ellensburg (near)	2.75	0.22	0.10	0.21	0.07	T.	T.	T.	0.85	0.00	0.25	2.38	7.35
Ferry	8.09	2.21	5.05	4.68	7.44	.....	.....	.....	.....	.....	.....	.....	.....
*Fort Canby	11.52	2.82	5.42	6.16	8.19	0.71	0.80	0.25	2.34	0.31	7.70	14.17	60.39
Fort Simcoe	6.15	0.40	0.60	0.20	0.67	T.	0.12	0.00	1.65	0.00	0.66	2.81	13.26
Fort Spokane	1.52	0.21	0.01	0.56	0.76	T.	0.05	0.00	0.14	0.03	0.49	1.36	5.13
Fort Townsend	1.77	1.28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grand Mound	8.83	1.71	3.39	2.89	5.59	0.19	0.19	0.01	1.88	0.14	5.77	13.09	43.68
Hunters	3.33	0.87	0.79	[c]2.22	3.66	0.59	0.48	T.	2.12	0.02	0.96	1.45	16.49
Index	13.91	8.35	8.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kennewick	1.35	0.18	0.03	0.11	0.54	.....	T.	0.08	0.78	0.00	.....	.....	.....
Lakeside	2.40	0.30	0.27	0.74	0.65	T.	T.	0.00	0.75	0.00	0.54	2.25	7.90
Lapush	9.50	7.40	9.85	9.73	5.49	1.66	.....	.....	4.90	1.20	9.59	15.76	.....
Madrone	6.61	1.96	4.46	3.82	5.64	0.21	0.64	0.20	1.10	0.02	2.67	9.49	36.82
Mayfield	4.89	.....	.....	.....	.....	0.89	1.09	0.53	.....	.....	.....	12.02	.....
Montechristo	.....	.....	9.39	9.60	11.74	2.24	2.20	0.71	11.45	1.70	10.92	28.14	.....
Moxee Valley	4.89	0.29	0.02	0.39	0.45	T.	0.01	T.	0.51	0.00	0.21	0.42	7.19
*Neahbay	12.44	10.37	13.09	11.11	10.77	3.12	2.40	1.37	.....	1.27	11.55	23.88	.....
New Whatcom	.....	.....	.....	.....	.....	0.94	0.04	0.35	3.70	0.64	3.68	4.26	.....
Oakharbor	0.60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Olga	2.89	2.94	0.91	1.45	1.56	1.07	0.17	0.23	1.62	0.69	4.21	6.97	24.71
*Olympia	9.85	2.77	4.47	4.46	5.93	0.05	0.35	T.	1.56	.....	.....	14.96	.....
Pine Hill	7.21	0.83	1.84	0.69	2.25	T.	0.40	0.12	1.15	T.	1.66	9.27	25.42
Pomeroy	.....	.....	.....	0.59	1.55	0.11	0.30	0.14	1.56	0.00	0.87	2.22	.....
*Port Angeles	5.91	1.32	1.40	1.77	1.55	0.19	T.	0.44	0.35	0.15	3.04	7.95	24.07
*Port Crescent	8.31	2.28	4.45	4.71	4.24	0.27	0.33	0.47	0.85	0.09	3.76	10.74	40.50
Pullman	4.06	1.25	0.69	0.83	2.12	0.19	.....	.....	.....	.....	2.54	3.22	.....
*Pysht	12.07	3.81	8.80	6.98	6.14	0.41	0.79	0.00	1.48	0.75	5.85	20.50	67.58
Rosalia	2.57	1.31	0.61	0.61	2.22	0.37	0.23	T.	2.02	0.01	1.52	2.22	13.69
*Seattle	6.13	1.76	3.60	3.17	3.20	0.29	0.37	0.21	1.01	0.02	1.95	7.98	29.69
Silver Creek	7.73	2.22	4.31	4.47	7.13	1.18	0.98	0.55	3.17	0.31	6.67	12.91	51.63
Snohomish	5.38	3.01	4.29	3.25	5.81	1.39	1.09	0.32	1.75	0.46	2.63	7.44	36.82
Southbend	.....	.....	8.08	11.39	8.29	0.53	1.50	0.10	2.23	1.07	6.60	.....	.....
*Spokane	3.04	0.82	0.57	0.79	1.58	0.42	0.42	0.03	1.34	T.	1.96	2.49	13.46
Stampede	9.62	3.33	3.33	1.99	4.50	1.02	1.23	0.08	.....	.....	.....	.....	.....
Stillaguamish	4.38	3.51	3.96	2.51	4.72	0.81	0.30	0.25	2.17	0.21	5.16	4.15	32.13
Sunnyside	2.11	0.13	0.01	0.06	0.72	0.03	0.11	0.00	0.73	0.00	0.33	0.78	5.01
Tacoma	7.36	2.51	2.64	2.29	4.61	0.20	0.39	0.05	1.22	0.14	4.79	10.85	37.05
*Tatoosh Island	12.50	9.02	10.43	9.62	7.12	2.38	2.19	1.31	5.76	1.32	8.86	22.44	92.95
Union City	12.25	4.09	6.98	7.85	7.34	0.23	0.88	0.08	1.20	0.27	6.92	17.27	65.36
Vashon	5.30	2.17	3.51	2.28	4.08	[j]0.00	0.35	0.13	0.82	0.02	4.33	12.85	35.84
*Walla Walla	2.52	0.55	1.17	1.23	2.31	0.04	0.50	0.23	2.13	0.00	1.67	2.54	14.89
Waterville	2.56	0.50	0.50	.....	1.04	0.00	0.00	T.	1.16	0.00	0.20	2.75	.....
West Ferndale	3.34	3.79	1.79	3.08	2.67	1.17	0.12	0.29	4.54	0.67	5.54	5.46	32.46
West Virginia.													
Beverly	4.61	2.23	4.33	4.74	4.27	4.36	5.30	1.85	2.61	2.27	1.54	2.99	41.10
Bloomery	3.70	1.10	2.24	2.00	2.62	3.28	3.12	2.92	T.	1.81	1.34	2.20	26.53
Bluefield	5.75	1.44	3.83	5.18	3.90	3.84	6.58	4.16	1.18	1.93	2.13	3.27	43.19
*Buckhannon	4.14	0.91	4.15	5.47	2.19	2.55	3.67	2.77	2.05	1.94	2.67	2.68	35.19
Burlington	2.40	1.07	3.95	1.40	1.25	4.84	.....	.....	.....	.....	.....	.....	.....
Central Station	.....	.....	2.39	2.10	0.79	2.62	3.68	1.44	.....	.....	.....	.....	.....
*Charleston	5.19	0.69	3.87	2.60	2.08	1.83	4.19	4.81	1.05	0.72	2.54	2.69	32.26
Cloverdale	4.20	.....	.....	4.32	6.10	3.07	4.90	.....	.....	.....	.....	.....	.....
Davis	.....	1.80	2.09	3.20	[e]3.25	.....	.....	.....	.....	.....	.....	.....	.....
Elkhorn	4.64	1.41	3.70	4.98	5.24	4.27	6.52	7.69	0.98	2.19	1.95	2.98	46.55
Ella	.....	1.02	3.89	2.00	2.80	1.63	3.25	3.90	1.34	1.33	3.11	2.59	.....
*Fairmont	5.81	1.08	4.15	2.76	1.58	4.08	2.69	3.28	1.10	0.84	2.92	2.33	32.62
*Glenville	4.90	1.25	4.50	3.69	1.66	1.86	4.54	1.69	3.74	0.50	2.77	3.24	34.34
Grafton	4.67	1.24	3.80	4.15	1.65	4.58	3.65	3.48	0.44	1.61	2.27	2.23	33.77
Green Sulphur Springs	3.30	0.75	2.56	3.44	1.67	2.55	3.16	3.11	2.18	0.75	0.75	0.75	24.97
*Harpers Ferry	4.33	1.40	1.43	2.83	4.67	4.35	2.00	2.12	1.18	0.16	2.50	2.83	29.80
Hewett	4.39	0.75	3.13	3.06	[b]3.56	3.23	6.70	4.15	0.68	2.02	0.87	2.78	35.32
*Hinton	5.06	1.00	3.20	4.12	4.05	2.50	6.44	3.21	4.37	1.06	1.82	2.01	38.84
Leachtown	5.65	0.90	2.31	1.91	1.17	1.53	1.65	1.60	1.60	1.40	1.99	3.05	24.76
Madison	6.08	1.35	2.74	1.10	3.94	5.66	7.04	.....	.....	.....	.....	.....	.....
Marlinton	.....	1.05	1.46	4.41	2.40	.....	.....	.....	.....	1.35	1.82	4.14	.....
Martinsburg	2.45	1.29	2.25	3.93	3.26	3.07	2.78	2.25	1.77	1.38	1.50	3.05	28.98
Monarch	6.53	.....	2.40	2.16	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Morgantown[1]	4.74	1.41	3.97	3.97	1.90	5.55	3.68	2.18	1.30	0.54	2.86	2.48	34.58
Morgantown[2]	.....	1.45	1.77	2.48	1.39	.....	2.82	2.18	1.25	1.02	1.65	1.85	.....
New Martinsville	4.76	0.70	2.39	2.84	1.84	2.27	4.14	3.32	1.98	1.72	2.70	3.93	32.59
Nuttallburg	4.44	.....	1.25	0.90	1.86	1.20	5.35	4.90	0.75	1.45	1.75	1.87	.....
*Parkersburg	5.50	0.99	2.92	1.32	2.22	4.51	2.21	1.88	1.76	1.36	2.96	3.44	30.37
Pennsboro	2.65	0.73	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.80	.....
*Philippi	3.36	1.40	3.90	3.77	2.26	2.62	5.15	2.87	1.33	0.95	.....	.....	.....
*Point Pleasant	4.98	0.94	3.14	1.76	1.42	3.17	4.01	2.73	1.76	1.01	2.51	3.51	30.96
Powellton	5.18	1.19	4.34	3.06	3.41	1.84	5.79	5.80	1.60	1.35	2.32	2.91	38.79

[1] River observer. [2] West Virginia University.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS), FOR 1895—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
West Virginia—Continued.													
Raleigh	2.37	.....	2.85	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Rowlesburg	2.98	0.99	4.26	4.78	2.08	3.40	4.34	1.89	0.42	1.15	2.75	2.75	31.79
Sandyville	4.90	0.61	3.38	1.46	2.17	2.57	4.46	2.37	2.69	1.25	1.84	3.06	30.56
Spencer	.....	.....	.....	1.00	1.80	2.46	.....	2.70	4.25	1.45	4.00	2.00	.....
*Weston	5.86	2.29	4.75	5.61	1.73	2.62	3.91	1.50	1.69	0.75	2.87	2.70	36.28
*Wheeling[1]	4.56	0.64	2.32	1.90	1.18	1.83	3.79	3.28	1.77	1.05	2.95	4.04	29.31
Wheeling[2]	4.94	1.18	1.89	2.19	1.32	2.08	4.51	3.56	1.96	1.92	2.51	3.85	31.91
White Sulphur Springs	.....	.....	.....	.....	.....	1.64	5.04	3.37	1.65	1.05	.....	.....	.....
Wisconsin.													
Amherst	1.97	0.40	0.22	1.17	2.26	1.32	0.96	2.62	3.60	0.50	1.41	1.71	18.14
Antigo	1.79	0.44	0.34	1.99	6.96	3.33	3.88	.....	5.11	0.61	1.03	1.07	.....
Apollonia	1.35	0.10	0.53	1.53	3.90	4.36	4.95	1.62	4.99	0.36	0.74	1.04	25.47
Barron	[3]0.83	0.60	0.48	1.68	3.63	4.87	4.93	1.78	3.90	0.26	0.80	1.66	25.42
Bayfield	2.30	.....	0.11	0.15	.....	.....	.....	.....	.....	.....	.....	1.40	.....
Beaverdam	2.10	0.60	0.62	1.08	2.56	1.41	1.45	.....	.....	.....	.....	.....	.....
Belleville	1.45	0.82	0.42	0.78	2.25	2.18	2.09	2.01	0.73	0.62	.....	.....	.....
Beloit	1.83	0.86	0.35	1.31	2.30	2.10	2.90	2.31	1.58	0.20	2.11	1.57	20.42
Berlin	1.21	0.30	0.17	0.69	2.39	1.94	1.90	1.64	1.23	.....	.....	.....	.....
Black River Falls	0.80	0.50	0.35	1.76	4.87	3.42	3.06	0.92	3.93	0.11	0.78	0.48	20.98
Boscobel	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.47	2.05	.....
Butternut	1.37	0.63	0.30	0.38	6.15	5.38	4.21	.....	10.21	0.51	0.72	2.03	.....
Centralia	1.40	0.25	.....	1.05	4.97	4.07	1.45	2.82	1.63	0.55	1.35	1.26	.....
Chilton	3.47	1.55	0.44	1.51	3.52	1.13	1.79	2.55	2.11	0.60	1.35	1.50	21.52
*Chippewa Falls	1.17	0.70	0.70	3.67	4.01	5.48	.....	.....	.....	.....	.....	.....	.....
Citypoint	1.15	0.35	0.31	1.39	4.68	3.52	.....	1.85	2.36	0.33	0.83	1.19	.....
Columbus	2.35	0.30	0.90	1.10	.....	.....	.....	.....	.....	.....	.....	.....	.....
Crandon	2.75	1.30	0.35	1.15	6.75	3.67	3.35	3.83	6.30	0.70	2.20	1.60	33.95
Delavan	1.00	0.40	1.27	1.09	3.54	2.63	5.33	4.12	2.93	0.40	1.93	2.23	26.87
Depere	2.70	1.45	0.47	0.91	3.44	2.65	2.25	3.79	1.07	0.58	1.71	1.73	22.75
Eau Claire	0.98	0.44	0.22	1.67	1.17	5.60	4.13	1.28	4.06	0.56	1.83	0.90	22.84
Florence	2.19	0.56	0.30	0.95	6.25	4.03	1.81	2.19	5.85	0.26	0.99	1.91	27.20
Fond du Lac	1.34	0.34	0.49	0.97	2.45	0.69	2.15	3.19	1.05	0.31	1.17	1.44	15.59
Grantsburg	0.99	0.40	0.40	1.76	4.61	5.09	4.36	2.50	4.70	0.04	0.65	.....	.....
*Greenbay	1.96	0.74	0.41	1.21	4.28	2.37	1.44	3.71	1.24	0.40	1.50	1.78	21.04
Hartford	2.58	0.52	0.91	1.02	5.37	2.25	2.57	3.23	3.10	0.96	3.31	1.96	27.76
Harvey	1.46	0.31	1.08	0.77	6.06	2.50	2.93	4.88	1.50	0.68	2.53	1.92	26.62
Hayward	0.92	0.33	0.54	0.83	4.52	7.74	3.16	3.19	6.58	0.26	0.82	0.95	29.84
Hillsboro	2.30	0.75	0.70	0.75	2.93	2.01	2.46	3.22	1.62	0.12	1.38	2.05	20.29
Janesville	1.30	0.33	1.02	1.56	4.25	1.23	1.88	2.53	0.67	0.19	1.56	.....	.....
Koepenick	1.50	0.61	0.35	2.10	4.58	2.10	2.50	2.50	4.40	1.40	1.65	0.95	24.64
*La Crosse	1.22	0.69	0.39	1.07	4.04	3.95	2.19	2.66	2.41	0.54	1.45	2.36	22.97
Lancaster	1.83	1.20	[4]0.72	0.62	2.48	2.24	1.83	2.73	3.42	0.94	2.45	1.94	22.40
Lincoln	2.18	0.42	0.14	1.37	3.02	2.80	1.63	4.65	2.06	0.11	2.30	0.78	21.46
Madison	1.12	0.26	0.27	1.06	2.16	0.59	1.21	2.08	0.82	0.58	1.17	1.80	13.12
Manitowoc	1.64	0.49	0.42	1.52	4.42	1.49	1.85	3.51	1.16	0.53	1.19	1.54	19.76
Meadow Valley	0.72	0.42	0.35	1.11	3.78	2.47	1.49	3.71	1.88	0.29	1.17	2.17	19.56
*Medford	1.47	0.35	0.34	1.05	6.08	4.93	3.86	3.19	3.32	0.52	1.84	1.28	28.23
Menominee	1.23	0.55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Milwaukee	1.78	1.26	0.74	1.48	4.24	3.04	1.58	2.83	1.82	0.52	2.99	2.60	24.88
Neillsville	1.10	0.77	0.85	1.84	4.60	2.18	2.93	1.90	3.44	0.84	1.29	1.40	23.14
New Holstein	2.15	0.70	0.46	1.61	2.99	.....	1.58	2.47	1.38	.....	1.10	1.31	.....
Oconomowoc	1.11	0.23	0.50	0.61	4.82	1.36	1.63	3.22	1.43	0.63	1.81	1.25	18.54
Oconto	1.00	0.35	0.20	1.46	2.34	2.52	0.89	3.17	3.98	0.45	1.12	2.42	19.90
Osceola	0.86	0.24	0.55	1.95	4.67	4.31	5.35	1.83	5.72	0.22	1.14	0.16	27.00
Oshkosh	2.42	T.	.....	1.30	3.55	.....	.....	.....	1.92	0.44	1.71	1.00	.....
Pepin	0.65	0.64	0.35	1.88	3.51	4.06	4.27	1.59	3.79	0.23	1.30	0.31	22.58
Pine River	0.90	0.47	0.06	1.49	2.47	1.93	2.32	2.74	1.73	0.45	1.64	1.96	18.16
*Portage	2.04	0.40	0.44	1.65	2.27	0.82	.....	.....	.....	.....	.....	.....	.....
Port Washington	1.41	0.60	0.40	0.82	2.50	2.50	0.98	4.74	1.43	0.60	2.79	1.55	20.32
Prairie du Chien	1.45	0.50	0.61	0.55	3.12	1.67	1.44	2.09	2.48	[5]0.95	1.55	2.04	18.45
Rhinelander	0.14	0.30	T.	0.29	.....	.....	.....	2.26	3.04	T.	.....	.....	.....
Royalton	1.50	0.53	0.34	1.20	3.96	1.92	2.03	2.99	2.66	0.54	1.78	2.48	21.93
Sharon	1.20	1.27	1.84	2.13	3.86	3.15	4.07	3.49	3.85	0.72	3.68	3.44	32.20
Shawano	1.13	0.55	0.61	1.42	2.23	1.63	2.02	2.18	2.15	0.44	1.03	1.70	17.09
Spooner	1.50	0.30	0.12	1.08	4.31	1.88	2.77	1.93	4.69	0.40	0.95	0.70	20.63
Stevens Point	1.09	0.35	0.48	0.89	4.65	3.76	2.11	3.59	2.91	0.80	1.28	0.76	22.67
Valley Junction	0.85	0.56	0.38	1.57	3.87	2.59	1.75	4.31	2.48	0.15	1.36	1.30	21.17
Viroqua	1.55	0.95	0.34	1.30	4.89	3.68	1.33	2.49	2.37	0.60	1.50	2.05	23.05
Watertown	1.77	0.75	0.77	0.74	5.11	1.64	2.24	2.20	1.82	0.62	1.98	2.05	21.69
Waukesha	1.55	0.42	0.53	0.78	5.01	2.29	1.79	2.61	1.56	0.67	2.11	1.82	21.14
Waupaca	.....	.....	.....	.....	3.40	3.02	0.70	2.15	.....	.....	1.78	1.40	.....
Wausau	.....	.....	.....	3.10	6.25	2.81	3.30	4.35	3.33	0.52	1.44	1.36	.....
Westbend	2.00	0.57	0.72	1.08	4.50	2.10	1.10	3.71	0.85	0.12	1.85	1.40	20.00
Westfield	1.40	1.20	0.50	0.97	1.83	1.44	1.76	3.37	1.44	0.40	1.73	1.75	17.79
Whitehall	.....	0.35	0.20	3.40	2.74	4.40	2.64	1.85	4.80	0.30	0.88	1.30	.....
Wyoming.													
Bighorn Ranch	0.45	0.28	0.80	1.57	1.57	.....	1.36	1.74	0.54	0.57	1.23	0.08	.....
*Cheyenne	0.29	0.30	1.26	1.21	2.73	2.59	2.54	1.69	0.39	0.95	0.63	0.18	14.76
Fort Laramie	0.63	0.24	1.54	0.94	3.29	3.73	1.89	0.24	0.16	0.62	1.05	0.30	14.63
Fort Washakie	0.18	0.76	7.90	7.25	0.55	1.91	0.64	1.10	2.17	0.85	1.93	0.00	25.24
Fort Yellowstone	4.76	0.34	2.79	0.61	1.68	2.71	0.57	0.73	0.43	0.44	1.30	1.29	17.65
Labarge	0.36	0.15	0.43	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Lander	0.68	0.21	1.17	5.71	1.32	1.90	0.19	1.04	1.74	1.00	2.30	T.	17.26
Lander	0.80	0.75	1.32	5.48	2.32	.....	.....	1.28	2.26	1.00	1.97	0.00	.....
Laramie	0.08	0.14	0.43	0.87	2.09	2.12	2.71	1.17	0.18	0.74	0.32	0.33	11.18
Lusk	.....	.....	2.36	0.93	5.57	3.24	1.22	0.20	0.33	0.00	1.23	0.56	.....
Saratoga	0.70	0.55	3.30	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sheridan	1.60	0.90	0.97	2.29	1.88	3.19	0.57	1.44	1.40	0.57	1.07	0.25	16.13
Sundance	1.20	2.10	2.50	2.48	3.47	5.25	0.45	1.35	0.75	0.47	2.72	2.10	24.84
Wheatland	.....	.....	.....	.....	4.30	3.20	1.46	T.	0.60	2.00	0.80	0.70	.....

[1] River observer. [2] Christian Schuepf. [3] J. S. Meyers.

Blank page retained for pagination

PART VI.

MISCELLANEOUS METEOROLOGICAL TABLES AND REPORTS.

Discussion of Pikes Peak and Colorado Springs Synchronous Meteorological Observations; Snowfall, 1895–96; Sunshine, 1895; Destructive Windstorms and Casualties by Lightning; Excessive Precipitation at stations equipped with Automatic Gauges.

Blank page retained for pagination

A BRIEF DISCUSSION OF THE HOURLY METEOROLOGICAL RECORDS AT PIKES PEAK AND COLORADO SPRINGS FROM NOVEMBER, 1892, TO SEPTEMBER, 1894.

PARK MORRILL, Forecast Official.

Observation stations were maintained at the summit of Pikes Peak and at Colorado Springs for about two years, beginning in the fall of 1892. Hourly records of pressure, temperature, and wind at these stations were published in the last two annual reports of the Chief of the Weather Bureau. The situation of these stations was particularly favorable for a comparative study of the fluctuations of pressure at a high and a low level. Indeed, the two stations, separated only 12 miles, may with little error be treated in respect of their pressure records as two points in the free air, the one 8,036 feet above the other. In the matter of temperature there is not the same approximation to the conditions of free air because of surface effects introduced by the presence of mountain masses. The temperature anomalies arising from the surface effects might at first thought be supposed to result in corresponding anomalies of pressure, but there is reason to think that such effects would be mostly confined to the production of air currents, with only slight changes in the pressure either above or below.

I have accordingly treated Pikes Peak and Colorado Springs as the summit and base of an air column, and have computed from the synchronous pressures at the two stations the mean temperature of the air column under various conditions. In computing the air column temperature we are obliged to omit the effects of the vertical accelerations in the motion of the air and the pressure effects arising from friction and viscosity. But these are known to be small, and their omission will not seriously impair the accuracy of the results obtained. In default of true free-air observations these records are of great interest and value to meteorology, and in the following pages an attempt has been made to deduce some of the more obvious conclusions which may be drawn from the data contained in the last two annual volumes.

NORMAL DIURNAL FLUCTUATIONS.

The synchronous observations of the two stations cover a period of twenty-three months, from November 1, 1892, to September 30, 1894. While this period is insufficient for the determination of normal values of high absolute accuracy, it is probably ample to disclose the main characteristics of the pressure and temperature fluctuations. I have accordingly prepared the following table of approximate normal hourly values of pressure and temperature.

TABLE I.—APPROXIMATE NORMAL DATA.

JANUARY.

Time.	Pressure (in inches.)		Temperature (in degrees F.)		
	Pikes Peak.	Colorado Springs.	Pikes Peak.	Colorado Springs.	Air column.
1 a. m.	17.522	23.948	3.4	27.2	21.3
2 a. m.	.515	.944	3.2	26.4	20.9
3 a. m.	.508	.942	3.0	26.3	20.4
4 a. m.	.502	.944	3.0	25.7	19.7
5 a. m.	.501	.946	3.1	25.8	19.5
6 a. m.	.493	.940	3.0	25.4	19.1
7 a. m.	.490	.942	2.8	25.0	18.8
8 a. m.	.498	.944	2.7	25.1	19.4
9 a. m.	.512	.950	2.8	24.4	20.3
10 a. m.	.522	.956	3.2	26.3	20.7
11 a. m.	.536	.958	4.0	31.4	21.9
Noon	.544	.960	4.7	35.9	22.4
1 p. m.	.543	.950	5.2	38.8	23.1
2 p. m.	.532	.922	5.8	40.4	23.8
3 p. m.	.524	.905	6.0	41.4	24.3
4 p. m.	.524	.894	6.2	42.2	25.0
5 p. m.	.526	.893	6.0	42.2	25.3
6 p. m.	.526	.897	5.6	41.1	25.0
7 p. m.	.526	.909	4.8	37.6	24.0
8 p. m.	.529	.924	4.1	34.6	23.5
9 p. m.	.530	.933	3.8	31.7	22.9
10 p. m.	.529	.938	3.4	30.3	22.5
11 p. m.	.526	.943	3.4	28.8	21.9
Midnight	.524	.944	3.4	28.0	21.7
Means	17.520	23.934	4.0	31.8	22.0

MARCH.

Time.	Pressure (in inches).		Temperature (in degrees F.).		
	Pikes Peak.	Colorado Springs.	Pikes Peak.	Colorado Springs.	Air column.
1 a. m.	17.520	23.922	5.3	32.2	22.8
2 a. m.	.512	.922	5.2	32.0	22.0
3 a. m.	.506	.923	5.1	31.0	21.4
4 a. m.	.494	.919	5.0	30.2	20.6
5 a. m.	.481	.912	4.9	29.8	19.9
6 a. m.	.478	.910	4.9	28.6	19.8
7 a. m.	.483	.914	5.0	28.0	20.0
8 a. m.	.492	.920	4.8	27.6	20.4
9 a. m.	.505	.924	5.0	28.4	21.3
10 a. m.	.516	.924	5.8	32.5	22.3
11 a. m.	.528	.922	6.6	36.8	23.5
Noon	.539	.914	7.5	40.0	25.0
1 p. m.	.545	.905	8.6	42.5	26.1
2 p. m.	.547	.895	9.8	44.4	26.9
3 p. m.	.546	.878	10.3	45.8	27.9
4 p. m.	.546	.868	10.5	46.6	28.6
5 p. m.	.548	.856	10.6	46.8	29.6
6 p. m.	.548	.858	9.8	46.4	29.6
7 p. m.	.548	.870	8.8	45.4	28.6
8 p. m.	.552	.885	7.8	43.0	28.0
9 p. m.	.548	.900	7.0	40.1	26.7
10 p. m.	.546	.912	6.4	38.4	25.7
11 p. m.	.543	.923	6.0	36.0	24.8
Midnight	.538	.924	5.7	34.4	24.3
Means	17.526	23.902	7.0	37.0	24.6

FEBRUARY.

1 a. m.	17.464	23.939	—0.4	20.6	16.8
2 a. m.	.460	.938	—0.4	20.2	16.5
3 a. m.	.452	.938	—0.6	19.9	15.8
4 a. m.	.446	.938	—0.6	19.8	15.3
5 a. m.	.437	.934	—0.8	19.8	14.7
6 a. m.	.430	.932	—1.0	19.8	14.3
7 a. m.	.432	.936	—0.9	19.0	14.2
8 a. m.	.439	.940	—1.0	18.4	14.5
9 a. m.	.448	.948	—0.9	17.9	14.8
10 a. m.	.456	.955	—0.8	20.3	15.1
11 a. m.	.465	.957	—0.2	25.4	15.7
Noon	.472	.956	1.0	29.0	16.4
1 p. m.	.476	.948	2.2	31.2	17.2
2 p. m.	.473	.934	2.9	32.9	17.9
3 p. m.	.464	.916	3.0	33.5	18.2
4 p. m.	.461	.899	3.0	34.4	19.0
5 p. m.	.462	.890	2.9	34.8	19.7
6 p. m.	.464	.890	2.5	34.4	19.9
7 p. m.	.462	.903	1.7	32.3	18.9
8 p. m.	.464	.919	0.8	29.5	18.0
9 p. m.	.469	.929	0.4	26.9	17.8
10 p. m.	.472	.933	0.0	24.8	17.8
11 p. m.	.470	.934	—0.4	23.4	17.6
Midnight	.469	.938	—0.6	21.7	17.3
Means	17.459	23.931	0.5	25.4	16.8

APRIL.

1 a. m.	17.630	23.948	11.4	41.5	30.9
2 a. m.	.620	.952	11.0	39.9	29.7
3 a. m.	.613	.950	10.6	38.2	29.2
4 a. m.	.600	.946	10.4	37.0	28.3
5 a. m.	.594	.948	10.1	36.2	27.6
6 a. m.	.590	.950	9.8	35.4	27.1
7 a. m.	.582	.954	9.6	34.4	26.2
8 a. m.	.588	.963	9.4	35.1	26.1
9 a. m.	.604	.968	10.1	38.6	27.2
10 a. m.	.616	.965	10.8	42.8	28.5
11 a. m.	.620	.958	12.0	45.4	29.3
Noon	.629	.950	13.3	48.1	30.7
1 p. m.	.634	.934	14.6	50.4	32.3
2 p. m.	.634	.914	15.9	52.2	33.7
3 p. m.	.637	.904	16.6	53.7	34.5
4 p. m.	.640	.891	17.2	54.6	35.6
5 p. m.	.640	.875	17.2	55.0	36.8
6 p. m.	.640	.869	17.0	54.8	37.2
7 p. m.	.643	.877	16.2	54.2	36.9
8 p. m.	.644	.888	15.2	52.6	36.2
9 p. m.	.643	.907	13.8	49.8	34.8
10 p. m.	.646	.927	13.0	47.3	33.8
11 p. m.	.644	.940	12.4	45.2	32.7
Midnight	.641	.944	11.8	43.2	32.1
Means	17.624	23.930	12.9	45.2	31.2

TABLE I—APPROXIMATE NORMAL DATA—Continued.

MAY.

Time.	Pressure (in inches).		Temperature (in degrees F.).		
	Pikes Peak.	Colorado Springs.	Pikes Peak.	Colorado Springs.	Air column.
1 a. m.	17.783	24.020	20.6	49.5	40.0
2 a. m.	.774	.020	20.3	47.8	39.2
3 a. m.	.763	.020	20.0	46.5	38.2
4 a. m.	.756	.018	19.8	45.6	37.5
5 a. m.	.750	.018	19.4	44.6	37.1
6 a. m.	.745	.020	19.2	43.9	36.6
7 a. m.	.747	.024	19.0	43.4	36.4
8 a. m.	.756	.029	19.4	45.6	37.0
9 a. m.	.766	.034	19.9	49.6	37.5
10 a. m.	.777	.027	21.0	53.2	39.0
11 a. m.	.783	.024	22.2	55.8	39.7
Noon	.792	.012	23.7	58.1	41.4
1 p. m.	.800	.001	25.0	60.0	42.9
2 p. m.	.802	23.984	26.2	61.6	44.3
3 p. m.	.800	.974	26.6	62.8	44.8
4 p. m.	.800	.963	27.0	63.5	45.7
5 p. m.	.796	.949	27.3	63.6	46.3
6 p. m.	.794	.940	26.8	63.4	46.7
7 p. m.	.794	.944	26.1	62.6	46.4
8 p. m.	.795	.955	25.0	61.0	45.1
9 p. m.	.796	.974	23.6	58.4	44.5
10 p. m.	.797	.990	22.8	56.0	43.4
11 p. m.	.800	24.010	22.0	53.8	42.3
Midnight	.797	.018	21.5	51.7	41.5
Means	17.782	23.998	22.6	54.2	41.4

JULY.

Time.	Pressure (in inches).		Temperature (in degrees F.).		
	Pikes Peak.	Colorado Springs.	Pikes Peak.	Colorado Springs.	Air column.
1 a. m.	18.096	24.164	36.0	63.6	59.9
2 a. m.	.090	.164	35.5	61.9	59.4
3 a. m.	.085	.162	35.3	60.6	59.0
4 a. m.	.080	.160	35.2	59.4	58.7
5 a. m.	.078	.158	35.0	58.4	58.6
6 a. m.	.078	.160	34.9	57.8	58.5
7 a. m.	.079	.167	35.0	57.4	58.1
8 a. m.	.082	.175	35.6	59.2	57.8
9 a. m.	.086	.180	36.6	63.2	57.8
10 a. m.	.094	.182	37.6	67.4	58.3
11 a. m.	.100	.176	38.6	70.4	59.4
Noon	.106	.174	39.8	73.0	60.2
1 p. m.	.110	.164	40.6	75.2	61.3
2 p. m.	.112	.151	41.6	76.6	62.7
3 p. m.	.108	.137	41.8	77.4	63.1
4 p. m.	.106	.131	41.8	76.8	63.4
5 p. m.	.102	.120	41.2	76.2	63.8
6 p. m.	.096	.114	40.6	75.5	63.6
7 p. m.	.092	.116	39.4	74.3	63.1
8 p. m.	.090	.121	39.0	73.0	62.5
9 p. m.	.091	.129	37.8	71.0	62.0
10 p. m.	.094	.141	37.1	69.0	61.4
11 p. m.	.098	.159	36.7	66.8	60.5
Midnight	.100	.166	36.2	65.1	60.2
Means	18.094	24.152	37.9	67.9	60.6

JUNE.

Time.	Pressure (in inches).		Temperature (in degrees F.).		
	Pikes Peak.	Colorado Springs.	Pikes Peak.	Colorado Springs.	Air column.
1 a. m.	17.932	24.044	29.8	58.7	52.6
2 a. m.	.922	.045	29.4	57.0	51.6
3 a. m.	.914	.044	29.0	55.8	50.8
4 a. m.	.907	.044	28.8	54.1	50.2
5 a. m.	.902	.046	28.3	53.6	49.5
6 a. m.	.900	.051	28.1	52.0	49.0
7 a. m.	.902	.060	28.2	51.4	48.5
8 a. m.	.906	.066	28.6	54.2	48.5
9 a. m.	.913	.068	29.4	59.2	49.0
10 a. m.	.926	.068	30.3	63.4	50.3
11 a. m.	.934	.060	31.6	66.3	51.6
Noon	.941	.052	33.0	68.8	52.9
1 p. m.	.946	.040	34.0	71.0	54.3
2 p. m.	.946	.026	35.4	72.4	55.3
3 p. m.	.948	.011	35.8	73.5	56.6
4 p. m.	.946	.000	36.2	74.3	57.2
5 p. m.	.946	23.980	36.4	74.8	58.7
6 p. m.	.942	.967	36.0	74.6	59.3
7 p. m.	.935	.966	35.2	73.8	58.6
8 p. m.	.935	.977	34.4	72.0	57.8
9 p. m.	.936	.989	33.2	69.4	57.0
10 p. m.	.940	24.007	32.2	66.4	56.1
11 p. m.	.944	.032	31.4	63.8	54.7
Midnight	.946	.041	31.0	61.6	54.2
Means	17.930	24.030	31.9	64.2	53.4

AUGUST.

Time.	Pressure (in inches).		Temperature (in degrees F.).		
	Pikes Peak.	Colorado Springs.	Pikes Peak.	Colorado Springs.	Air column.
1 a. m.	18.086	24.180	34.2	59.8	57.8
2 a. m.	.080	.178	34.0	58.6	57.4
3 a. m.	.070	.172	33.8	57.4	56.8
4 a. m.	.068	.169	33.5	56.4	56.8
5 a. m.	.064	.167	33.4	56.6	56.5
6 a. m.	.062	.166	33.2	55.0	56.4
7 a. m.	.060	.170	33.0	54.6	56.0
8 a. m.	.061	.177	33.4	55.6	55.5
9 a. m.	.064	.182	34.2	59.4	55.4
10 a. m.	.074	.182	35.4	64.6	56.4
11 a. m.	.082	.184	36.3	68.2	57.1
Noon	.088	.182	37.2	70.2	57.8
1 p. m.	.090	.172	38.0	71.6	58.8
2 p. m.	.092	.160	38.8	73.1	59.8
3 p. m.	.092	.151	39.0	73.4	60.5
4 p. m.	.088	.141	38.8	74.1	60.8
5 p. m.	.082	.126	38.6	73.8	61.4
6 p. m.	.080	.121	38.0	73.0	61.5
7 p. m.	.078	.124	37.5	71.1	61.1
8 p. m.	.072	.128	36.6	69.8	60.2
9 p. m.	.072	.141	35.6	66.9	59.2
10 p. m.	.078	.155	35.2	64.2	58.8
11 p. m.	.082	.168	34.8	62.8	58.3
Midnight	.082	.175	34.4	61.2	57.8
Means	18.077	24.162	35.7	64.6	58.2

TABLE I—APPROXIMATE NORMAL DATA—Continued.

SEPTEMBER.						NOVEMBER.					
Time.	Pressure (in inches).		Temperature (in degrees F.).			Time.	Pressure (in inches).		Temperature (in degrees F.).		
	Pikes Peak.	Colorado Springs.	Pikes Peak.	Colorado Springs.	Air column.		Pikes Peak.	Colorado Springs.	Pikes Peak.	Colorado Springs.	Air column.
1 a. m.	17.926	24.070	28.4	54.0	50.2	1 a. m.	17.640	24.004	9.6	31.8	28.0
2 a. m.	.920	.072	27.8	53.0	49.4	2 a. m.	.634	.003	9.6	31.2	27.6
3 a. m.	.914	.072	27.5	51.6	48.8	3 a. m.	.628	.002	9.4	30.6	27.1
4 a. m.	.907	.070	27.4	50.9	48.3	4 a. m.	.624	.004	9.2	30.2	26.6
5 a. m.	.900	.068	27.0	50.4	47.7	5 a. m.	.622	.002	9.0	30.2	26.6
6 a. m.	.897	.070	26.8	49.1	47.3	6 a. m.	.616	.002	9.0	30.2	26.0
7 a. m.	.894	.076	26.6	48.6	46.6	7 a. m.	.617	.006	9.0	30.3	25.8
8 a. m.	.896	.084	26.6	48.6	46.3	8 a. m.	.620	.011	8.8	30.6	25.8
9 a. m.	.898	.089	27.2	52.4	46.0	9 a. m.	.626	.018	9.2	30.8	25.8
10 a. m.	.909	.090	27.9	58.9	47.1	10 a. m.	.641	.022	9.8	34.8	27.0
11 a. m.	.924	.090	29.1	63.4	48.5	11 a. m.	.652	.026	10.5	39.0	27.7
Noon	.930	.084	30.3	65.8	49.5	Noon	.656	.024	11.2	43.5	28.1
1 p. m.	.936	.072	31.6	67.6	51.0	1 p. m.	.655	.016	11.8	46.2	28.7
2 p. m.	.940	.052	33.0	68.9	51.6	2 p. m.	.644	23.992	12.2	47.3	29.2
3 p. m.	.940	.038	34.1	70.0	53.6	3 p. m.	.644	.976	12.9	48.1	30.3
4 p. m.	.938	.022	34.8	71.0	54.8	4 p. m.	.642	.966	13.1	48.5	30.8
5 p. m.	.932	.002	35.0	71.4	55.6	5 p. m.	.647	.966	13.0	47.5	31.2
6 p. m.	.928	23.994	34.4	70.9	55.8	6 p. m.	.646	.970	12.4	45.6	30.8
7 p. m.	.928	.997	33.5	69.4	55.6	7 p. m.	.648	.981	11.4	41.4	30.3
8 p. m.	.926	24.006	32.0	65.9	54.2	8 p. m.	.652	.996	11.0	38.6	29.7
9 p. m.	.922	.018	31.0	63.1	53.5	9 p. m.	.655	24.000	10.6	36.1	29.6
10 p. m.	.924	.036	30.0	60.2	52.4	10 p. m.	.656	.004	10.1	33.8	29.4
11 p. m.	.924	.048	29.2	57.8	51.5	11 p. m.	.651	.010	9.8	32.6	28.7
Midnight	.920	.054	28.6	55.4	50.7	Midnight	.646	.012	9.6	31.9	28.0
Means	17.920	24.055	30.0	60.0	50.7	Means	17.640	24.001	10.5	37.1	28.2
OCTOBER. (a)						DECEMBER.					
1 a. m.	17.798	24.044	20.2	42.5	39.7	1 a. m.	17.564	24.000	4.0	25.0	21.6
2 a. m.	.792	.046	19.7	41.1	39.1	2 a. m.	.554	23.994	4.0	25.0	21.1
3 a. m.	.784	.052	19.5	40.7	38.0	3 a. m.	.546	.991	3.8	24.8	20.6
4 a. m.	.778	.056	19.2	40.1	37.1	4 a. m.	.538	.990	3.8	24.4	20.0
5 a. m.	.770	.056	18.7	39.5	36.4	5 a. m.	.534	.988	3.6	24.3	19.8
6 a. m.	.767	.058	18.5	38.6	35.9	6 a. m.	.530	.985	3.5	24.2	19.6
7 a. m.	.769	.061	18.5	37.8	34.8	7 a. m.	.530	.981	3.4	24.6	19.8
8 a. m.	.774	.068	18.5	38.2	36.0	8 a. m.	.539	.986	3.4	24.4	20.3
9 a. m.	.779	.073	19.2	39.9	36.1	9 a. m.	.548	.990	3.4	24.0	20.8
10 a. m.	.794	.076	19.4	45.4	37.3	10 a. m.	.554	.994	3.6	25.6	21.1
11 a. m.	.809	.074	20.4	51.0	38.8	11 a. m.	.562	.999	4.2	29.8	21.5
Noon	.814	.066	21.5	54.8	39.8	Noon	.573	24.004	4.5	33.6	22.1
1 p. m.	.821	.059	22.7	57.1	41.0	1 p. m.	.572	23.994	4.8	36.4	22.7
2 p. m.	.825	.033	24.0	58.9	43.1	2 p. m.	.562	.978	5.6	37.2	22.8
3 p. m.	.823	.017	24.8	60.3	44.0	3 p. m.	.556	.964	5.6	38.0	23.2
4 p. m.	.818	.005	25.6	61.1	44.4	4 p. m.	.554	.956	5.6	38.3	23.6
5 p. m.	.817	23.995	25.3	60.8	45.0	5 p. m.	.558	.960	5.6	37.6	23.6
6 p. m.	.817	.994	25.0	60.7	45.0	6 p. m.	.558	.966	5.0	35.9	23.2
7 p. m.	.816	24.006	23.9	57.9	44.1	7 p. m.	.562	.978	4.4	32.8	22.8
8 p. m.	.818	.019	22.2	53.5	43.4	8 p. m.	.566	.989	4.2	30.4	22.4
9 p. m.	.816	.030	21.4	50.5	42.4	9 p. m.	.570	.996	4.0	28.4	22.4
10 p. m.	.814	.035	20.9	48.0	41.8	10 p. m.	.572	24.000	4.0	27.0	22.3
11 p. m.	.809	.040	20.6	45.9	41.1	11 p. m.	.570	.000	4.0	26.2	22.1
Midnight	.806	.045	20.5	44.3	40.5	Midnight	.566	.000	3.8	25.6	21.7
Means	17.801	24.040	21.3	48.7	40.3	Means	17.556	23.987	4.2	29.3	21.7

a Data for one year only.

TABLE I—APPROXIMATE NORMAL DATA—Continued.

YEAR.

Time.	Pressure (in inches).		Temperature (in degrees F.).		
	Pikes Peak.	Colorado Springs.	Pikes Peak.	Colorado Springs.	Air column.
1 a. m	17.744	24.023	16.8	42.2	36.3
2 a. m	.737	.022	16.4	41.2	35.7
3 a. m	.730	.021	16.2	40.2	35.1
4 a. m	.723	.020	15.7	39.4	34.6
5 a. m	.717	.019	15.9	39.0	34.1
6 a. m	.713	.019	15.7	38.3	33.7
7 a. m	.713	.025	15.7	37.9	33.3
8 a. m	.719	.028	15.8	38.6	33.6
9 a. m	.727	.033	16.2	40.7	34.0
10 a. m	.738	.035	16.9	44.6	30.9
11 a. m	.747	.033	17.9	48.3	35.9
Noon	.754	.030	18.9	51.6	36.7
1 p. m	.758	.020	19.8	53.9	37.7
2 p. m	.756	.002	20.8	56.2	38.8
3 p. m	.754	23.988	21.2	56.3	39.6
4 p. m	.752	.977	21.5	57.0	40.1
5 p. m	.752	.966	21.5	56.9	40.9
6 p. m	.751	.964	20.9	56.2	41.0
7 p. m	.750	.971	20.1	54.2	40.4
8 p. m	.751	.982	19.2	51.9	39.7
9 p. m	.751	.994	18.4	49.3	38.9
10 p. m	.753	24.006	17.8	47.1	38.2
11 p. m	.753	.016	17.4	45.2	37.5
Midnight	.750	.020	17.0	43.7	37.0
Means	17.741	24.009	18.1	47.1	36.9

The time used in the above tabulation is that of the seventy-fifth meridian, and in order to reduce to the local time of the place of observation two hours must be subtracted. In computing the temperature of the air column the elevations 14,134 feet for Pikes Peak and 6,098 feet for Colorado Springs are employed, values based on levels of the United States Geological Survey. The mean latitude of the stations is taken as 38° 50′, north.

An examination of the data discloses the usual diurnal law of variation in the temperature both at Colorado Springs and Pikes Peak, but at the latter point the daily range is reduced to less than one-third of that at the Springs. The times of occurrence of maximum and minimum are nearly the same at the Peak and the Springs. The minimum temperature of the air column is also reached at about the same time, but the maximum occurs rather more than an hour after it has been reached at the surface stations. As a rule, the temperature of the air column exceeds the mean of the temperature at summit and base throughout the twenty-four hours of the day. The exceptions are found in March, April, and November, and during these months the temperature of the air column falls only slightly below the mean of the summit and base for a short period in the middle of the day. In the yearly average the air column temperature is above the mean of summit and base at every hour of the day, the excess ranging from 0.3 degree at noon to 7 degrees at 2 a. m. (local time). This fact has an important bearing on hypsometry, demonstrating the practical impossibility of an accurate determination of elevations from the usual method of using the mean temperature of base and summit as the mean of the air column.

The mean diurnal curves of temperature and pressure are given in the accompanying diagram (fig. 1), which shows graphically the peculiarities of the temperature fluctuations noted.

In the pressure curves two noticeable facts are apparent. First, while there is one well-defined fluctuation of pressure both at Pikes Peak and at Colorado Springs, the secondary fluctuations, which are of much the same magnitude at sea level in middle and lower latitudes, are hardly apparent. Second, the chief minimum at Pikes Peak is separated from that at Colorado Springs by an interval of nearly twelve hours. Indeed, if the curve at one station be

shifted twelve hours, it will be almost a reproduction of that at the other, except that the oscillation is less at Pikes Peak than at Colorado Springs. The daily range of pressure at the Peak is 63 per cent of that at the Springs. The relative densities of the atmosphere at the two stations being directly as the pressures and inversely as the absolute temperatures, we find the density at the Peak to be 78 per cent of that at the Springs. The diurnal range in pressure therefore decreases at a much more rapid rate than the density, and probably vanishes at no very extreme altitude. The data for individual months indicate that the diurnal fluctuation preserves practically the same characteristics throughout the year.

NORMAL ANNUAL VARIATIONS.

From the monthly means of Table I we construct the mean annual curves of pressure and temperature which are given in the accompanying diagram (fig. 2). A marked increase of pressure

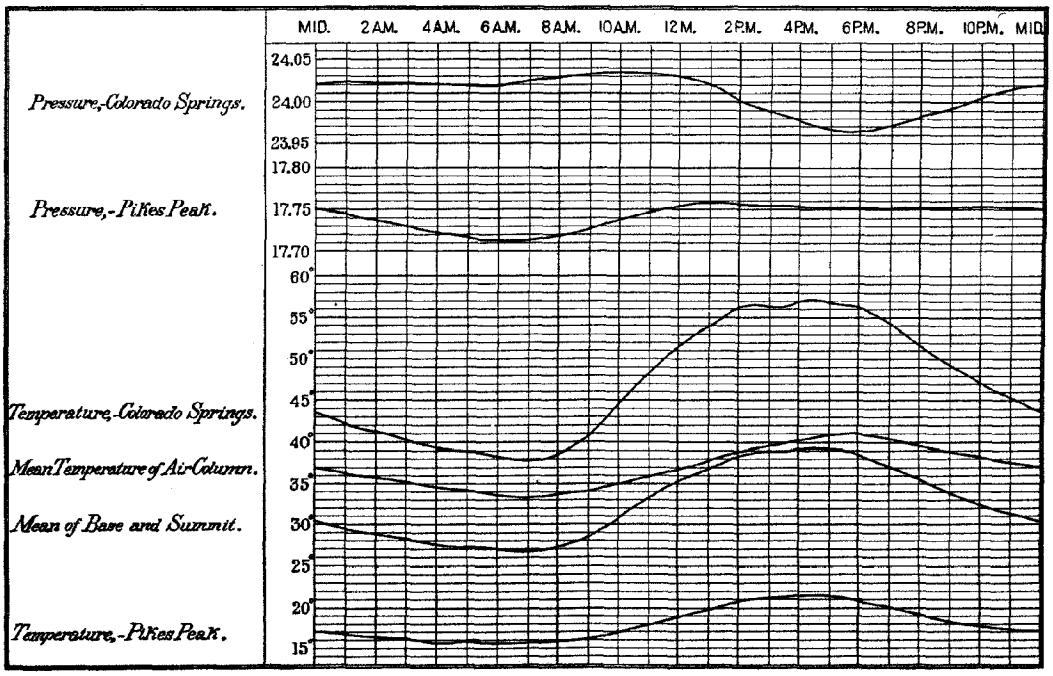


Fig. 1.—Diagram Showing Mean Diurnal Curves of Pressure and Temperature.

is shown in summer both at Pikes Peak and Colorado Springs, the annual range amounting to more than six-tenths of an inch at the Peak, but to less than three-tenths at the Springs.

The curves of temperature for both stations and for the air column are similar in character to those of pressure. The maximum, however, is reached earlier than in the curves of pressure in the air column and still earlier at Colorado Springs. The maxima of pressure and temperature occur nearly simultaneously at Pikes Peak. From the similarity in the march of the curve of pressure and that of temperature, the conclusion is unavoidable that the notable rise of pressure at these elevated stations, in summer, is an effect of the expansion of the air upward from the increased heat. Moreover, the lag in the pressure curve at the lower station would indicate a considerable heating effect upon the atmosphere received from the earth's surface and only gradually penetrating to the higher strata.

It will be seen from the temperature curves that the mean temperature of the air column approximates the temperature of its base much more closely than that of its summit throughout the year. The excess of the mean temperature of the air column over the mean of the temperatures at its top and bottom has already been commented on in treating of the diurnal fluctuations.

If we assume the usual law of linear decrease of temperature with altitude, the mean temperature of the air column will be that of a layer midway between base and summit. On such assumption the average rate of change for the upper half of the column would be 4.7 degrees and that for the lower half 1.0 degree per 1,000 feet. The actual average rate of change between Colorado Springs and Pikes Peak is 3.6 degrees per 1,000 feet. We must necessarily conclude that the law of decrease is not linear and that there is a considerable excess of heat and a slower change of temperature with altitude in the lower portion of the column.

We are thus led to a conception of the atmosphere as having at its lower limit a considerable layer, possibly 4,000 or 5,000 feet in depth, somewhat uniformly heated to a degree comparable to that of the surface layer wherein most of our observations are made. Within this heated layer occur the turbulent actions evidenced by the formation of cumulus clouds, and to such convectional actions would be largely due this which we may term surface heating of the air. Above this warm lower layer of the atmosphere a more rapid and steady decrease of temperature occurs,

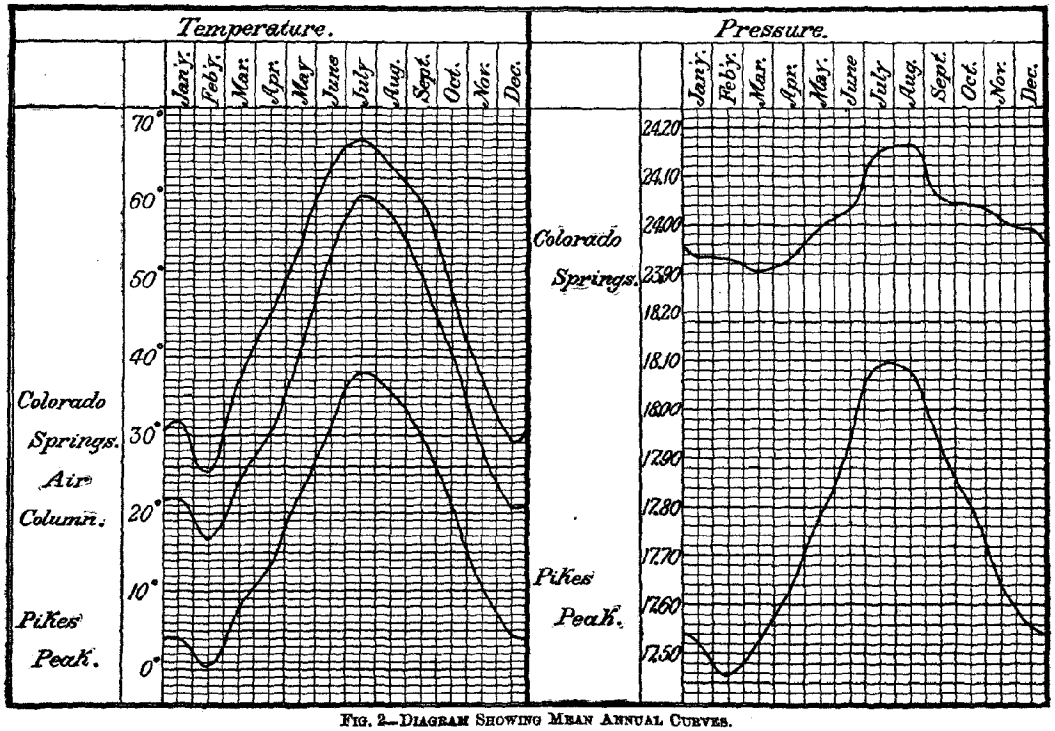


FIG. 2—DIAGRAM SHOWING MEAN ANNUAL CURVES.

for if we compare the difference of temperature between Pikes Peak and the mean of the air column for the various months we find the same large value at all seasons, while the difference between Colorado Springs and the air column is very variable. From thermodynamic principles this rate must, however, decrease as we pass away from the heated surface layer. The important idea is the existence of a surface layer of the atmosphere wherein the laws of temperature change are essentially different from those higher up—a surface of discontinuity in a certain sense existing at the limit of the turbulent thermal actions arising from the superheating of the earth's surface. Confirmation is given to this conception by a recent investigation by the author in connection with the reduction of barometric pressure to sea level, a notice of which will be found in the Annual Summary of the Weather Review for 1895. An entirely different line of reasoning has there shown that we can not assume for the lower 6,000 feet of the atmosphere an average decrement of temperature nearly so great as exists between Colorado Springs and Pikes Peak.

ABNORMAL DISTURBANCES.

In considering the abnormal fluctuations, the limited time at my disposal has prevented an exhaustive examination of the data hour by hour. I therefore adopted the following plan: Taking the printed weather maps of the Bureau, I first selected the periods when energetic areas of low and areas of exceptionally high pressure passed over this region. From a study of the maps thus selected, it seemed that four types embraced the most interesting conditions for investigation. These may be designated as (1) the Pacific area of low pressure, which, originating over the Pacific Ocean, enters the country on the middle, or more commonly, the northern Pacific Coast as an energetic depression. These areas are then indicated with more or less clearness on our charts of sea-level pressure in the Rocky Mountain districts, and advancing eastward usually reach the lake regions as storms of much intensity. (2) A second class of barometric depressions, the effects of which might be expected to be felt in Colorado, are those that first appear on our charts on the southern slope of the Rocky Mountains and afterwards move northeasterly with increasing energy to the lake regions. (3) Of areas of high pressure the most interesting is that accompanying the advance of the true cold wave from the Western Canadian provinces to our central valleys and the Gulf of Mexico. (4) Another case of interest is that in which an area of high pressure remains stationary over the plateau region, sometimes for many days. The conditions in this case often closely resemble those at the inception of a cold wave, but there is no movement. The persistent immobility of all its meteorological features is the distinguishing mark of this type of weather conditions.

To one or other of these four types all the striking cases of abnormal disturbance were readily referred, and from the classification thus made the cases of highest intensity and nearest approach to Pikes Peak are selected for treatment in detail. In discussing the first three types, the method has been followed of selecting the extreme reading occurring at the hour of 2 or 8 o'clock at Colorado Springs as the central point of the disturbance. In the accompanying tables, data at Pikes Peak and Colorado Springs are given for the central epoch and also for four earlier and four later epochs at uniform intervals of six hours. This selection of hours is made in order to facilitate comparison with the weather charts issued at 8 a. m. and 8 p. m. The data for the last type cover a somewhat longer period.

It will be observed by a comparison of the above data with the weather maps that in many cases the time of greatest barometric depression at Colorado Springs (or Pikes Peak) does not coincide with the time of nearest approach of the center of low pressure as shown on the maps. This leads to an inquiry as to the correctness of the reduction to sea level. The question seems hitherto to have been regarded an open one, whether a barometric depression really crosses the Rocky Mountains without some loss of its essential characteristics. In many cases we have on our weather maps barometric gradients which would indicate violent winds and yet no winds occur. We sometimes see *lows* appear in these elevated districts, which on the following map will have vanished. In discussing the phenomena occurring at Pikes Peak, it is essential to know whether true *lows* and *highs* cross this region.

With a view to deciding this question, a typical case under each of the four classes of barometric areas which are considered has been selected and the actual pressures for all stations of an elevation exceeding 2,400 feet have been reduced to a plane of 5,000 feet above sea level. A chart of upper isobars is thus obtained for an extensive area, extending approximately from the one hundredth to the one hundred and twentieth meridian of longitude and from latitude 30° to 50° north. For most of the stations embraced the reduction is small, and uncertainty in the temperature used is of little moment. We thus secure an isobaric chart of actual conditions which does not involve the theoretical considerations necessarily embraced in a chart for this region drawn to pressures reduced to sea level.

In each of the four typical cases selected a consecutive series of four charts has been prepared from the data contained in the original records of observations made twice daily at stations. These four series of charts are shown on the four plates accompanying this article. Each chart shows for the time given below it the isobars actually existing at the elevation of 5,000 feet in heavy black lines, the current isotherms in red as taken from the corresponding weather map, and the sea-level isobars in dotted black lines as also taken from the weather map.

The most casual examination of these sixteen charts will convince one that areas of low pressure cross this region, preserving their entity from their entrance within the Pacific coast line to their issuance into the Mississippi Valley. Areas of high pressure also exist and move across it, but do not disclose the steep gradients to which we have been accustomed on our charts of pressure reduced to sea level. By comparison with the weather maps the wind directions will be found to conform to the upper isobars fairly well, as well as would be expected in a region of such irregular topography, while the gradients no longer require velocities far in excess of what is found in fact.

A comparative study of these charts and the corresponding weather maps, therefore, leads us to the conclusion that the upper isobars are the true index to the location and movement of barometric areas in this elevated region. It is then proper to select the extreme reading of the barometer at Colorado Springs as marking the nearest approach of the pressure disturbance. That the wide divergence shown between the location of centers of disturbance on the upper isobaric charts and on our charts of sea-level pressures has a bearing of no little importance upon the practical work of forecasting, requires no demonstration. Here, I surmise, is the most fruitful means of immediate improvement in our work of weather prediction. We now proceed to consider the special types of weather conditions defined above.

(*a*) *Pacific Lows:*

Much the most frequent depressions felt in Colorado are of the Pacific type, advancing from the Pacific Ocean, sometimes moving southeast to the Gulf of Mexico, but usually recurving to the northeast and reaching the lake regions. In the following table are included all *lows* of this type of decided energy, the paths of which seemed from the printed weather maps to have passed within 100 miles of Pikes Peak. Data for each depression is given for nine epochs at intervals of six hours, the central entry being at the approximate time of nearest approach of the center of low pressure. At the end of the table the mean values of pressure and temperature for the whole series of ten depressions are given by epochs.

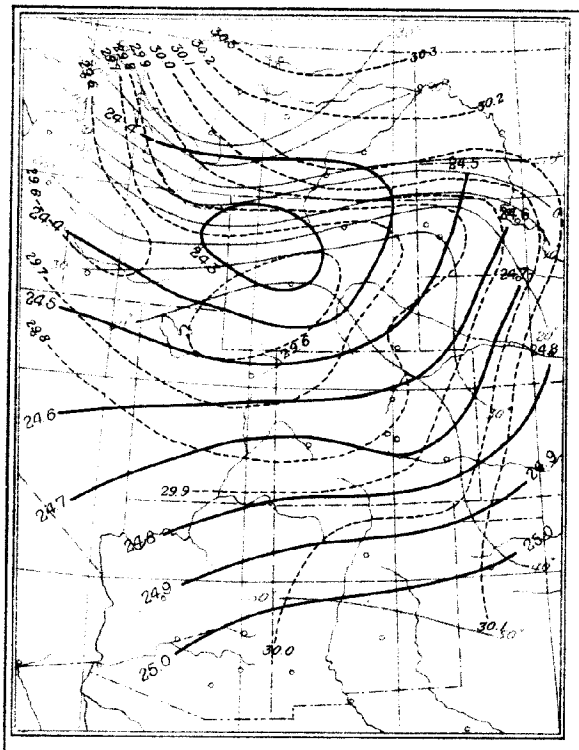
TABLE II.—CONDITIONS ATTENDING THE PASSAGE OF A PACIFIC LOW.

Date.	Time.	Pressure (in inches).		Temperature (in degrees F.).		
		Pikes Peak.	Colorado Springs.	Pikes Peak.	Colorado Springs.	Air column.
1892.						
Nov. 23	8 p. m.	17.66	23.91	18	39	36
24	2 a. m.	.60	.84	18	34	35
	8 a. m.	.45	.70	15	38	31
	2 p. m.	.37	.60	15	45	31
	8 p. m.	.25	.47	12	50	28
25	2 a. m.	.08	.59	—11	30	6
	8 a. m.	.21	.75	—14	25	7
	2 p. m.	.40	.84	2	38	17
	8 p. m.	.52	.91	4	33	24
1893.						
Jan. 27	2 a. m.	17.42	23.75	11	27	25
	8 a. m.	.36	.65	10	38	26
	2 p. m.	.37	.67	8	53	27
	8 p. m.	.33	.60	9	50	27
28	2 a. m.	.30	.53	9	54	29
	8 a. m.	.27	.60	7	37	21
	2 p. m.	.39	.71	5	46	25
	8 p. m.	.46	.83	2	39	23
29	2 a. m.	.46	.94	— 1	18	16
Jan. 30	8 a. m.	17.54	24.04	2	25	17
	2 p. m.	.56	23.93	12	31	26
	8 p. m.	.47	.69	14	39	34
31	2 a. m.	.30	.55	14	52	27
	8 a. m.	.24	.45	11	50	29
	2 p. m.	.34	.55	11	55	31
	8 p. m.	.40	.61	10	51	33
Feb. 1	2 a. m.	.39	.84	10	15	17
	8 a. m.	.38	.93	8	10	10

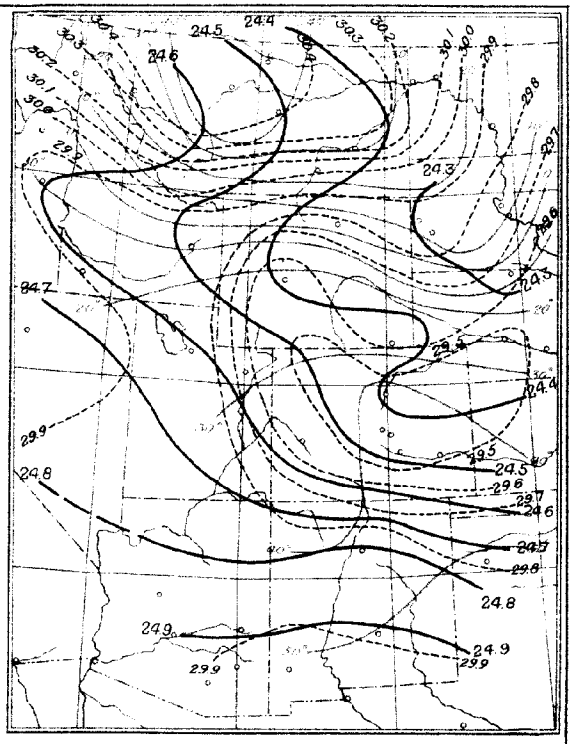
TABLE II.—CONDITIONS ATTENDING THE PASSAGE OF A PACIFIC LOW—Continued.

Date.	Time.	Pressure (in inches).		Temperature (in degrees F.).		
		Pikes Peak.	Colorado Springs.	Pikes Peak.	Colorado Springs.	Air column.
1893.						
Feb. 8	2 a. m.	17.67	24.23	2	24	16
	8 a. m.	.52	.02	4	16	16
	2 p. m.	.55	23.91	10	40	26
	8 p. m.	.44	.68	10	47	32
9	2 a. m.	.35	.61	12	50	28
	8 a. m.	.34	.64	11	34	25
	2 p. m.	.38	.77	5	44	20
	8 p. m.	.47	.86	6	37	22
10	2 a. m.	.48	.92	7	25	19
Feb. 12	8 a. m.	17.49	23.97	0	17	17
	2 p. m.	.44	.85	4	32	20
	8 p. m.	.31	.69	3	34	19
13	2 a. m.	.25	.59	1	27	20
	8 a. m.	.17	.47	— 1	26	21
	2 p. m.	.12	.49	0	29	15
	8 p. m.	.15	.60	— 3	22	11
14	2 a. m.	.21	.74	— 8	15	7
	8 a. m.	.28	.90	—10	9	4
Mar. 21	8 p. m.	17.41	23.57	14	54	36
22	2 a. m.	.31	.58	13	42	26
	8 a. m.	.25	.52	13	31	25
	2 p. m.	.21	.45	14	42	26
	8 p. m.	.21	.45	5	35	26
23	2 a. m.	.17	.52	2	27	18
	8 a. m.	.24	.63	0	24	17
	2 p. m.	.30	.69	7	32	18
	8 p. m.	.34	.77	— 2	30	17
Apr. 10	8 a. m.	17.56	24.02	8	30	20
	2 p. m.	.53	23.81	14	48	31
	8 p. m.	.38	.50	19	61	38
11	2 a. m.	.32	.49	12	52	33
	8 a. m.	.14	.44	4	40	20
	2 p. m.	.16	.44	3	46	22
	8 p. m.	.26	.56	0	43	23
12	2 a. m.	.21	.68	— 4	36	11
	8 a. m.	.27	.74	— 5	35	13
1894.						
Jan. 2	8 p. m.	17.38	23.64	2	42	29
3	2 a. m.	.23	.59	— 1	36	19
	8 a. m.	.15	.55	— 3	24	14
	2 p. m.	.11	.51	— 6	37	13
	8 p. m.	.06	.49	—11	32	10
4	2 a. m.	.09	.51	—12	18	11
	8 a. m.	.08	.59	—14	14	6
	2 p. m.	.12	.60	— 9	24	8
	8 p. m.	.13	.62	—10	21	8
Mar. 18	8 p. m.	17.58	23.83	13	44	34
19	2 a. m.	.55	.79	11	33	34
	8 a. m.	.44	.70	11	23	30
	2 p. m.	.44	.64	19	52	34
	8 p. m.	.35	.49	13	55	36
20	2 a. m.	.29	.54	8	41	27
	8 a. m.	.27	.56	1	34	24
	2 p. m.	.26	.60	7	31	21
	8 p. m.	.28	.66	4	26	18
Apr. 10	8 p. m.	17.81	23.95	23	61	48
11	2 a. m.	.75	.95	19	42	42
	8 a. m.	.73	.91	21	41	43
	2 p. m.	.71	.80	30	66	49
	8 p. m.	.66	.71	26	64	48
12	2 a. m.	.60	.76	21	50	41
	8 a. m.	.58	.91	18	43	29
	2 p. m.	.69	24.01	20	40	32
	8 p. m.	.71	.11	16	38	27

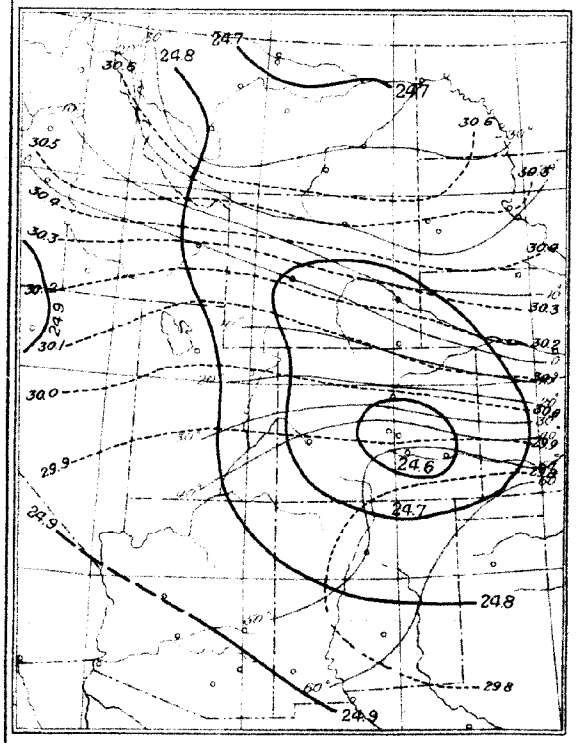
PLATE I.--PASSAGE OF A PACIFIC LOW ACROSS THE ROCKY MOUNTAINS.



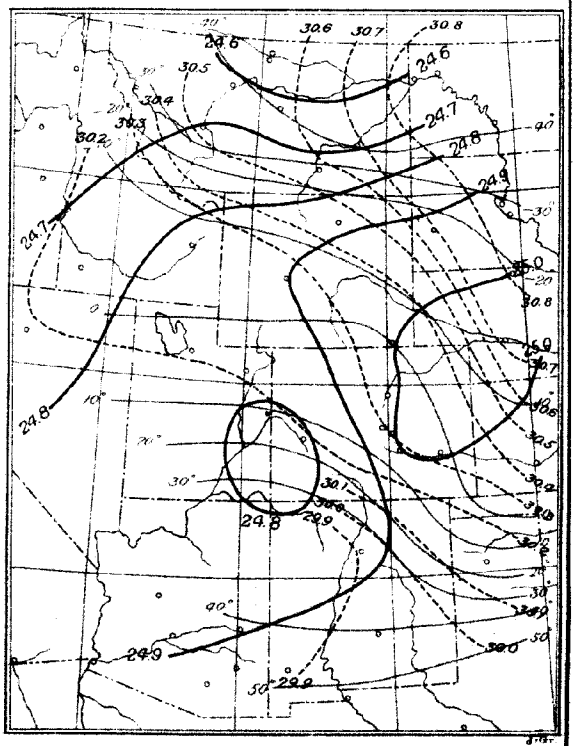
JANUARY 30, 1893, 8 P. M.



JANUARY 31, 1893, 8 A. M.



JANUARY 31, 1893, 8 P. M.



FEBRUARY 1, 1893, 8 A. M.

THE NORRIS PETERS CO. PHOTO-LITHO. WASHINGTON, D. C.

TABLE II.—CONDITIONS ATTENDING THE PASSAGE OF A PACIFIC LOW—Continued.

MEAN VALUES.					
Epoch.	Pressure (in inches.)		Temperature (in degrees F.).		
	Pikes Peak.	Colorado Springs.	Pikes Peak.	Colorado Springs.	Air column.
First	17.55	23.89	9	36	28
Second	.48	.80	10	35	28
Third	.41	.66	11	38	29
Fourth	.35	.59	12	47	29
Central	.27	.51	8	46	28
Sixth	.25	.56	4	37	22
Seventh	.30	.67	1	35	20
Eighth	.35	.77	3	31	18
Ninth	.38	.85	1	24	16

The general conditions prevailing throughout the Rocky Mountain districts during the passage of one of these *lows*, that of January 30 to February 1, 1893, are shown on the charts of Pl. I. On the evening of January 30, the upper isobars show a clearly defined *low* central in northwestern Wyoming. The lower isobars show a similar *low* slightly displaced to the southward. On the following morning the upper isobars show the center of low pressure to have moved directly eastward to South Dakota, while the lower isobars show the center of low pressure in Colorado, a *high* central in northern Montana, and a sharp gradient between Helena and Lander. The high area of the lower reduction is indicated in the upper isobars only by a moderate rise in pressure to the northwest. Instead of the northerly gale which should prevail in Montana and Wyoming with the gradient of the sea-level isobars, there are light west winds, consonant with the upper isobars. A sharp thermal gradient exists in the northwest quadrant of the upper *low*. In short, the upper reduction indicates a distribution of pressure and temperature entirely analogous to a similar condition at sea level. On this chart there is an irregularity in the isobar of 24.4 inches, which develops on the map of the following evening into a secondary center in eastern Colorado. The lower reduction shows the original depression to have continued eastward to Lake Superior, while the secondary is shown as a weak depression central in western Texas. On the morning of February 1 the original depression is shown by the weather map to have passed into Canada. The secondary is shown by the upper isobars to have moved to southwestern Colorado, and an area of high pressure has replaced it in eastern Colorado and extends eastward, evidently forming a part of the *high* shown by the lower reduction to exist in the Missouri Valley. We thus find on the plane of 5,000 feet in this elevated region the counterparts of the *highs* and *lows* which exist at lower levels in contiguous districts.

From the mean values for the series of nine epochs, given at the end of Table I, mean curves of the temperature and pressure fluctuations during the passage of these Pacific *lows* across the Rocky Mountain region are constructed and are given in the diagram (p. 236).

These curves cover a period of forty-eight hours, with the point of lowest pressure at Colorado Springs, nearly at the middle point. The pressure wave is well defined both at Pikes Peak and at Colorado Springs, its amplitude amounting to four-tenths of an inch at the latter point and to three-tenths at the Peak. The minimum is reached some three hours later at the elevation of Pikes Peak than at that of Colorado Springs. The rise of pressure after the passage of the disturbance is less rapid at the upper station. There is a well-marked rise of temperature at Colorado Springs upon the approach of the *low*. A similar but very slight rise is shown at the Peak and in the temperature of the air column. The maximum temperature in all three cases is reached a little before the minimum pressure. A marked temperature fall then commences, and continues until the depression is well by.

We have here the same sequence of phenomena at altitudes respectively of 6,000 and 14,000 feet which occur at sea level. Plainly these cyclonic disturbances have a depth largely exceeding

14,000 feet. Their depth is so great that they move across this lofty plateau region and its still loftier mountain ranges without essential loss of characteristic features. A general investigation of pressure disturbances as they exist at the high level of our western stations would seem to promise much of value in regard to the nature of cyclonic action.

(*b*) *Southern Slope Lows:*

An interesting type of storms are those which first appear on the weather maps as ill-defined areas of low pressure on the southern portion of the Rocky Mountain slope, and advance, increasing in energy, to the lake regions. Almost without exception these storms become intense upon approaching the lakes, and some of the most violent lake storms are found among them. All storms of this type, the paths of which seemed from the weather maps to pass within 250 miles of Pikes Peak, are included in Table III. *Lows* of this type are not so numerous as those of Pacific

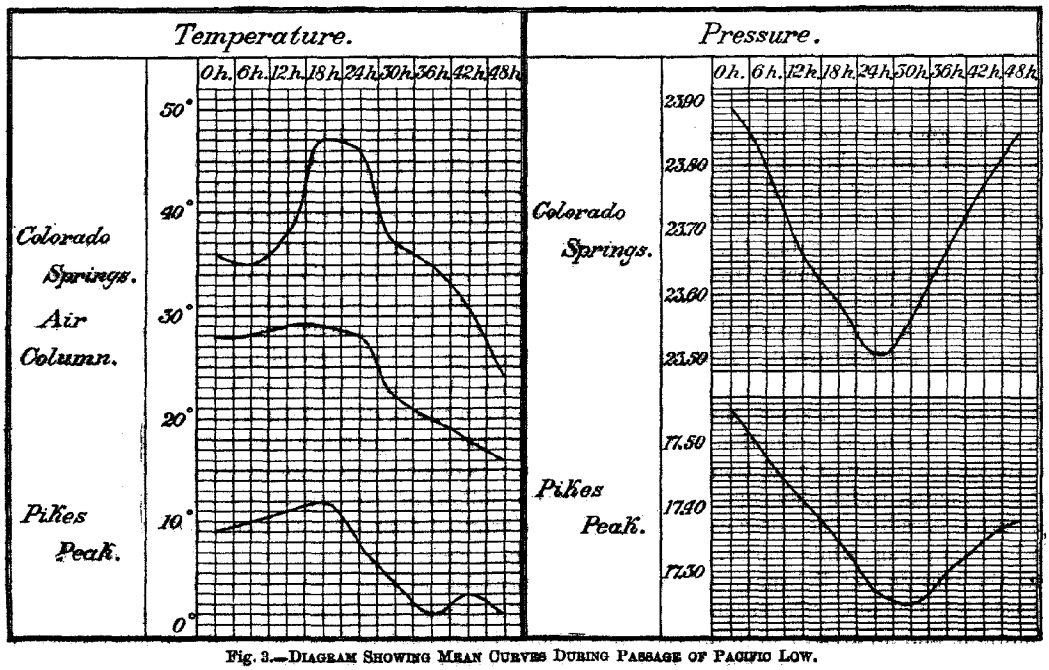


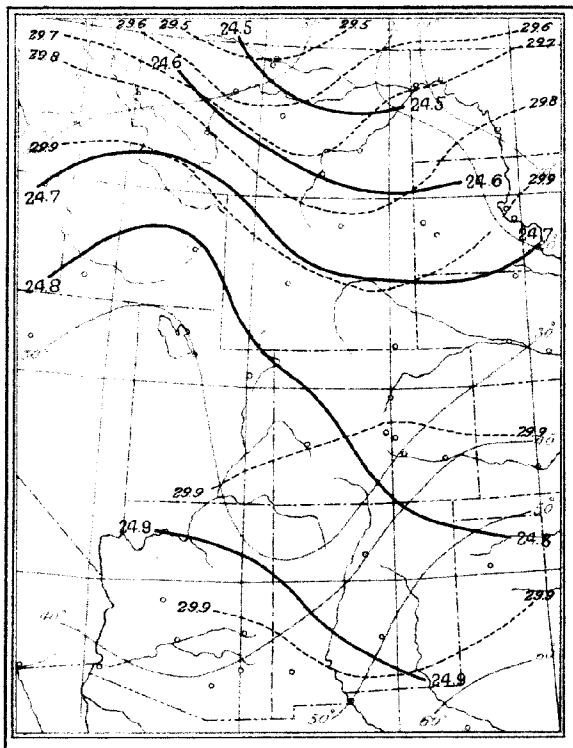
Fig. 3.—Diagram Showing Mean Curves During Passage of Pacific Low.

origin. The disturbance experienced at Pikes Peak is naturally less marked than in the case of the Pacific *lows*, which pass at a less distance.

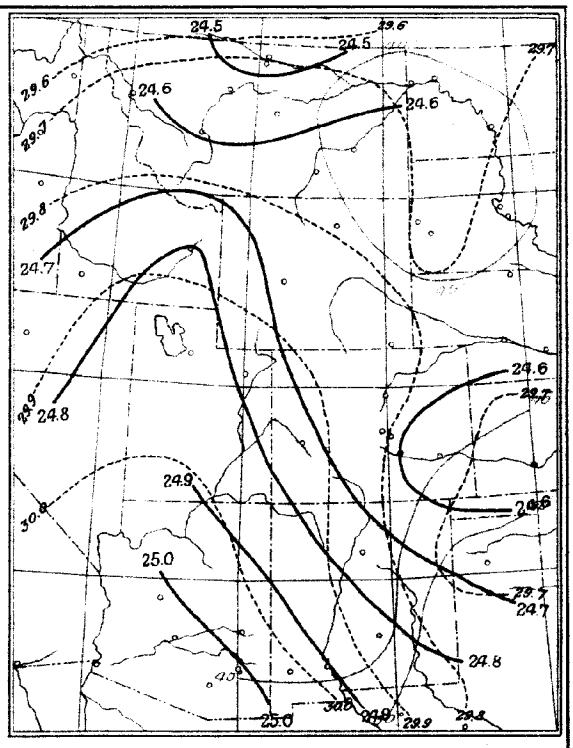
Table III.—Conditions During the Development of a Low on the Southern Slope.

Date.	Time.	Pressure (in inches).		Temperature (in degrees F.).		
		Pikes Peak.	Colorado Springs.	Pikes Peak.	Colorado Springs.	Air column.
1893.						
Feb. 25	8 p. m.	17.27	23.62	— 2	42	20
26	2 a. m.	.25	.67	— 5	29	15
	8 a. m.	.20	.64	— 2	22	13
	2 p. m.	.17	.56	2	32	15
	8 p. m.	.16	.51	1	34	18
27	2 a. m.	.10	.58	— 4	14	8
	8 a. m.	.05	.61	—14	9	2
	2 p. m.	.09	.69	—15	19	0
	8 p. m.	.15	.76	—18	22	1

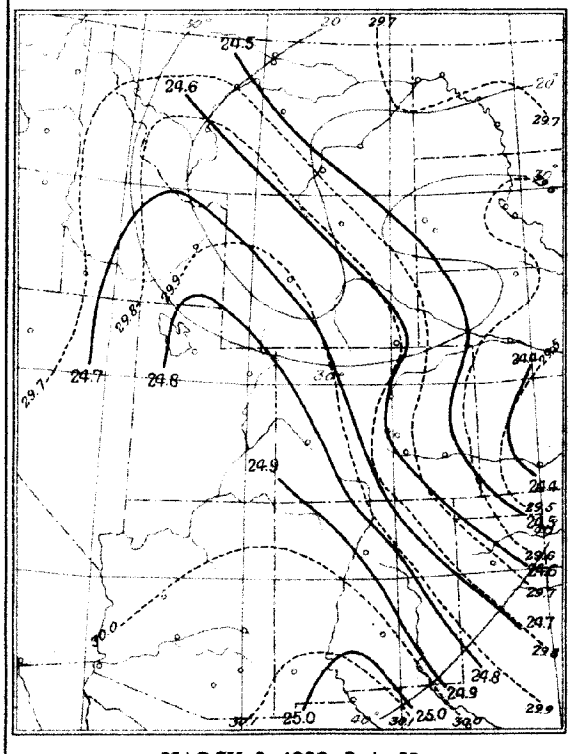
PLATE II.--THE DEVELOPMENT OF A LOW AREA ON THE SOUTHERN ROCKY MOUNTAIN SLOPE.



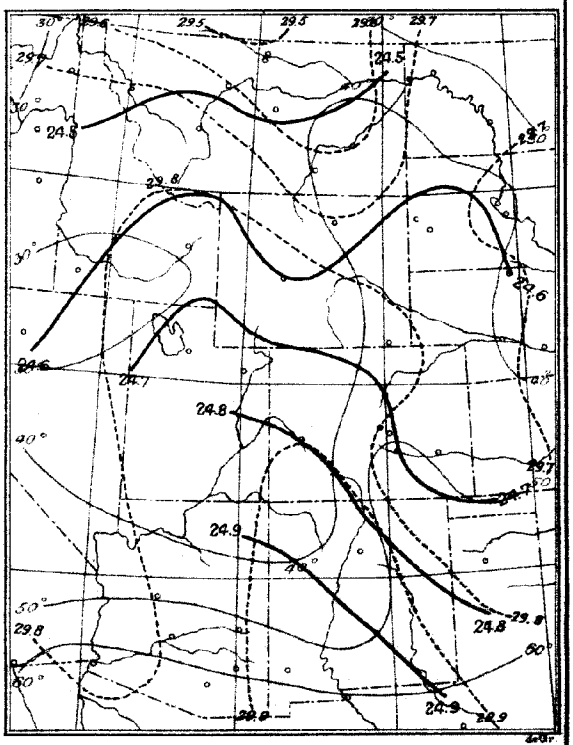
MARCH 7, 1893, 8 A. M.



MARCH 7, 1893, 8 P. M.



MARCH 8, 1893, 8 A. M.



MARCH 8, 1893, 8 P. M.

THE NORRIS PETERS CO. PHOTO-LITHO., WASHINGTON, D. C.

TABLE III.—CONDITIONS DURING THE DEVELOPMENT OF A LOW ON THE SOUTHERN SLOPE—Continued.

Date.	Time.	Pressure (in inches).		Temperature (in degrees F.).		
		Pikes Peak.	Colorado Springs.	Pikes Peak.	Colorado Springs.	Air column.
1893.						
Mar. 7	2 a. m.	17.53	23.79	8	31	32
	8 a. m.	.44	.76	6	24	26
	2 p. m.	.39	.63	8	41	30
	8 p. m.	.26	.61	2	32	20
8	2 a. m.	.19	.57	0	25	16
	8 a. m.	.22	.59	2	36	18
	2 p. m.	.40	.66	11	52	29
	8 p. m.	.46	.72	9	42	31
9	2 a. m.	.41	.78	4	30	22
Apr. 17	2 p. m.	17.75	23.97	18	60	40
	8 p. m.	.71	.86	19	62	44
18	2 a. m.	.60	.87	14	48	33
	8 a. m.	.49	.80	11	41	28
	2 p. m.	.48	.72	15	56	32
	8 p. m.	.46	.79	8	32	26
19	2 a. m.	.40	.94	— 5	23	11
	8 a. m.	.40	.98	—11	24	9
	2 p. m.	.45	.92	— 1	35	17
Oct. 3	8 p. m.	17.71	23.88	20	59	43
4	2 a. m.	.55	.88	17	48	28
	8 a. m.	.49	.83	14	34	26
	2 p. m.	.60	.71	25	64	44
	8 p. m.	.60	.72	21	56	44
5	2 a. m.	.55	.75	17	42	37
	8 a. m.	.49	.88	3	38	23
	2 p. m.	.62	.95	7	51	30
	8 p. m.	.71	.97	10	52	37
Dec. 23	8 a. m.	17.45	23.82	9	28	24
	2 p. m.	.53	.78	13	48	33
	8 p. m.	.53	.75	12	45	35
24	2 a. m.	.47	.77	10	34	28
	8 a. m.	.36	.71	8	28	22
	2 p. m.	.32	.74	4	32	17
	8 p. m.	.40	.90	0	24	14
5	2 a. m.	.46	1.06	— 5	15	9
	8 a. m.	.59	1.14	— 5	16	15
1894.						
Jan. 19	2 p. m.	17.32	23.73	— 1	33	17
	8 p. m.	.26	.72	— 6	29	13
20	2 a. m.	.25	.79	— 9	18	8
	8 a. m.	.25	.76	— 8	30	10
	2 p. m.	.26	.67	— 1	40	16
	8 p. m.	.29	.67	2	43	19
21	2 a. m.	.35	.72	1	41	21
	8 a. m.	.34	.85	2	36	12
	2 p. m.	.50	.87	2	44	24

MEAN VALUES.

First epoch	17.51	23.80	9	42	29
Second epoch	.46	.78	7	40	26
Third epoch	.41	.75	7	35	24
Fourth epoch	.37	.70	7	39	24
Central epoch	.34	.65	7	40	25
Sixth epoch	.32	.69	5	33	21
Seventh epoch	.35	.78	— 1	31	17
Eighth epoch	.40	.88	— 2	31	15
Ninth epoch	.47	.91	— 1	33	19

The general conditions attending the development of a *low* of this type during March 7 and 8, 1893, are shown on the charts of Pl. II. In this series a much closer agreement is shown between the pressure distribution of the upper-level isobars and that of the sea-level isobars of the weather map. On the morning of the 7th, a slight depression is indicated on the plane

of 5,000 feet at Dodge City, which is reflected on the lower map as an area of slightly reduced pressure, extending south and west for several hundred miles. The edge of a greater depression is shown at both levels in northern Montana. The following evening the depression has deepened on the southern slope; the gradient has become steeper to the southwest. On the morning of the 8th, the depression has become more pronounced; the storm is fully developed with a circulation of winds conforming admirably to the upper isobars. By evening the pressure has risen and the storm center is shown on the weather map in eastern Iowa. Throughout this sequence of events the pressure at the elevation of 5,000 feet has remained steadily high in the extreme Southwest at Tucson and El Paso. The storm has originated to the east of the southern divide and has not come from the South Pacific Coast, as might have been surmised from the indications on previous weather maps.

Mean curves of temperature and pressure fluctuations during the development of these *lows* follow in the diagram below.

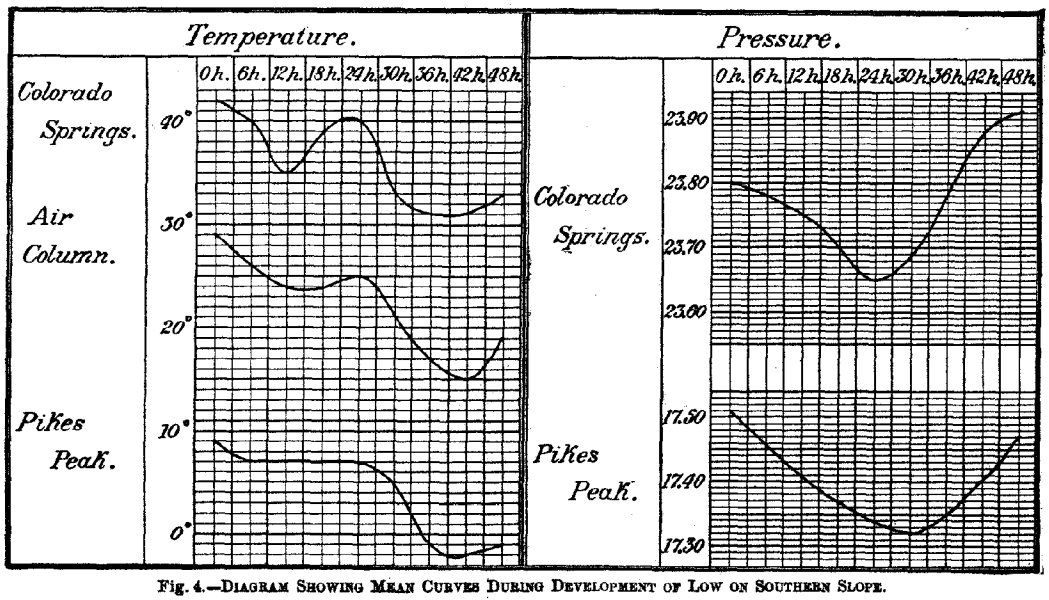


Fig. 4.—Diagram Showing Mean Curves During Development of Low on Southern Slope.

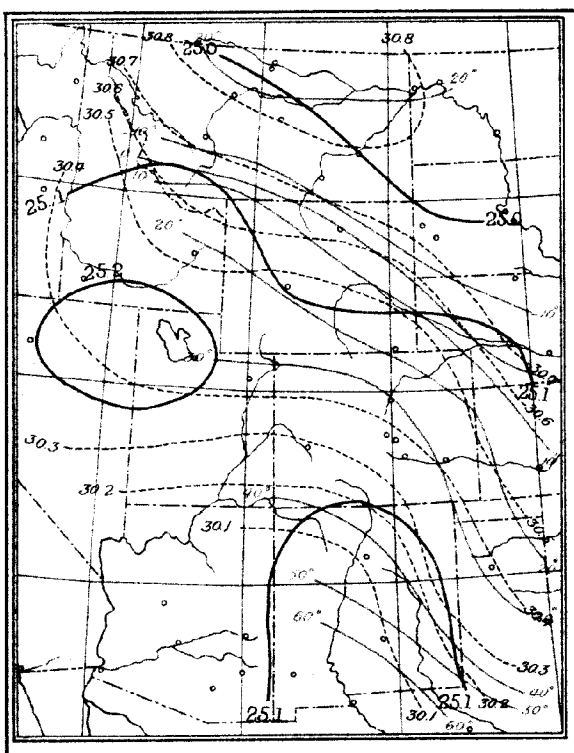
The pressure wave in this case is similar in character to that shown in the previous type, but the fluctuation has smaller range and the lag at Pikes Peak is six instead of three hours. The rise in temperature begins later at Colorado Springs and is less in magnitude. At Pikes Peak there is no rise at all, and but a slight one in the temperature of the air column. The fall in temperature, beginning somewhat later than in the previous case, is less prolonged, and at the lower station is much less decided. The evidence in regard to the depth of the cyclonic disturbance is as clear as in the former instance, and the sequence of events is the same as would occur at a lower level at this increased distance from the central depression, with the latter passing the point of observation to the eastward.

(c) *Highs attended by Cold Waves:*

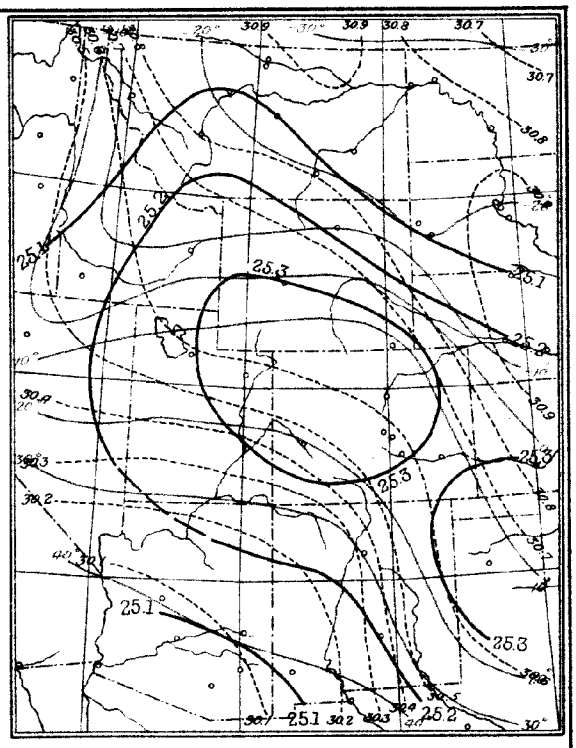
A typical winter condition is that in which an area of high pressure appears on the daily weather maps in the Western Canadian Provinces and is accompanied by a sudden fall in temperature. This area of falling temperature advances southeast to the central valleys, finally reaching the Gulf and Atlantic coasts. It constitutes the true cold wave. In Table IV, data are given for such *highs* of this character as were attended by cold waves advancing fully to the Gulf Coast. Nine observations are given for each area, the central entry being, as in the previous tables, at the 2 or 8 o'clock observation, when the pressure reached its extreme value at Colorado Springs.

Mean values are also given at the end of this table for *highs* of this type.

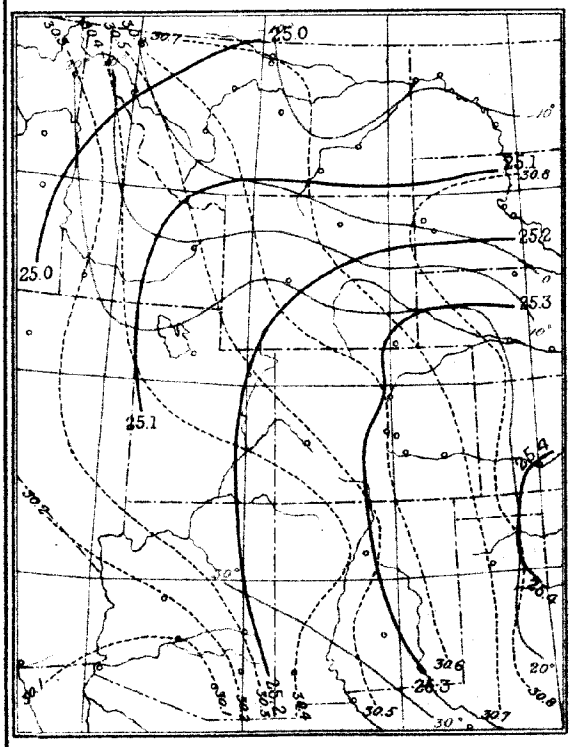
PLATE III.--CONDITIONS DURING THE PASSAGE OF A COLD WAVE TO THE CENTRAL VALLEYS AND GULF OF MEXICO.



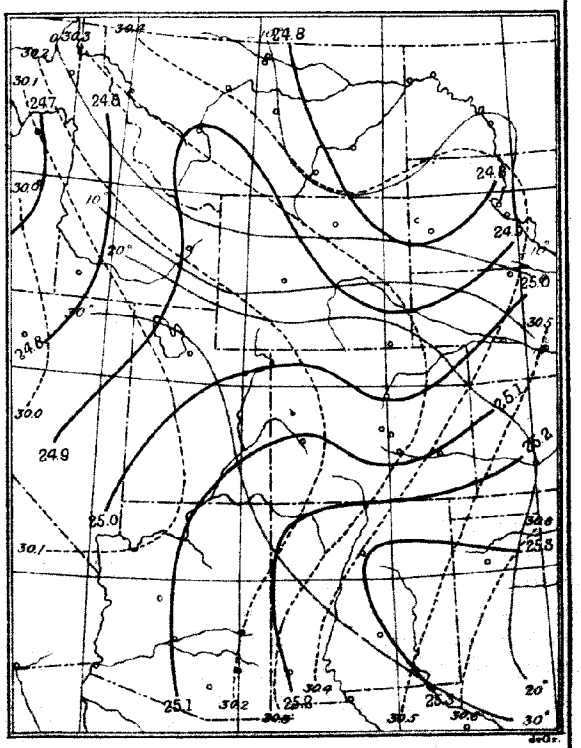
FEBRUARY 6, 1893, 8 P. M.



FEBRUARY 7, 1893, 8 A. M.



FEBRUARY 7, 1893, 8 P. M.



FEBRUARY 8, 1893, 8 A. M.

THE WORRIS PETERS CO. PHOTO-LITHO. WASHINGTON, D. C.

TABLE IV.—CONDITIONS ATTENDING THE ADVANCE OF COLD WAVE.

Date.	Time.	Pressure (in inches).		Temperature (in degrees F.).		
		Pikes Peak.	Colorado Springs.	Pikes Peak.	Colorado Springs.	Air column.
1892.						
Dec. 25	2 a. m.	17.57	23.86	18	41	31
	8 a. m.	.59	.90	14	50	30
	2 p. m.	.58	.92	6	48	28
	8 p. m.	.70	24.12	1	41	26
26	2 a. m.	.70	.20	4	29	21
	8 a. m.	.75	.20	11	22	25
	2 p. m.	.75	.12	18	26	30
	8 p. m.	.67	23.99	14	28	32
27	2 a. m.	.57	.91	11	49	28
1893.						
Jan. 14	2 a. m.	17.31	23.80	— 4	38	12
	8 a. m.	.31	.94	— 9	23	4
	2 p. m.	.42	24.03	—11	28	7
	8 p. m.	.48	.11	— 9	21	8
15	2 a. m.	.44	.16	— 8	14	1
	8 a. m.	.48	.16	— 7	8	5
	2 p. m.	.49	.12	— 6	24	8
	8 p. m.	.52	.11	— 6	20	11
16	2 a. m.	.55	.11	— 1	10	13
Feb. 6	2 p. m.	17.47	24.00	1	30	13
	8 p. m.	.55	.10	— 4	26	14
7	2 a. m.	.59	.21	— 6	18	11
	8 a. m.	.61	.29	— 8	10	7
	2 p. m.	.74	.35	— 3	30	15
	8 p. m.	.73	.33	— 2	25	15
8	2 a. m.	.67	.23	2	24	16
	8 a. m.	.52	.02	4	16	16
	2 p. m.	.55	23.91	10	40	26
Mar. 3	2 a. m.	17.41	23.85	0	33	18
	8 a. m.	.38	.94	— 3	22	10
	2 p. m.	.50	24.07	0	25	12
	8 p. m.	.61	.18	— 1	24	14
4	2 a. m.	.62	.25	— 3	14	11
	8 a. m.	.63	.22	6	8	14
	2 p. m.	.68	.10	11	32	25
	8 p. m.	.64	23.99	9	36	28
5	2 a. m.	.61	.97	10	23	27
1894.						
Jan. 23	2 a. m.	17.40	23.83	0	14	18
	8 a. m.	.37	.91	— 1	12	10
	2 p. m.	.39	24.09	— 1	— 2	1
	8 p. m.	.40	.16	— 8	6	— 2
24	2 a. m.	.39	.17	— 9	— 7	— 3
	8 a. m.	.42	.08	— 4	— 8	4
	2 p. m.	.47	23.97	1	20	15
	8 p. m.	.50	.95	— 2	25	19
25	2 a. m.	.49	24.00	— 9	19	15

MEAN VALUES.

First epoch	17.43	23.87	3	31	18
Second epoch	.44	.96	— 1	27	14
Third epoch	.50	24.06	— 2	23	12
Fourth epoch	.56	.17	— 5	20	11
Central epoch	.58	.23	— 4	16	9
Sixth epoch	.60	.20	1	11	13
Seventh epoch	.61	.11	5	25	19
Eighth epoch	.57	.01	4	25	21
Ninth epoch	.55	23.98	4	28	22

The cold wave of February 6 and 7, 1893, is selected for illustrating the conditions prevailing in the Rocky Mountain region during this type of weather conditions. The charts of Pl. III show the upper and lower isobars and the surface isotherms during this period. On the evening of February 6, the weather map showed a center of extremely high pressure in Alberta. A cold wave

prevailed in the Upper Mississippi Valley and extended southwest to Kansas, Indian Territory, and northwestern Texas. The upper isobars on this chart show a wholly different distribution of pressure. A belt of high pressure extends from the central plateau eastward to the limit of the chart. The gradient over the northern half of the Rocky Mountain region is exactly reversed from that shown by the lower isobars. The light west and southwest winds prevailing in these districts conform to the upper isobars very satisfactorily, but bear no intelligible relation to the lower ones. The weather map of the next morning shows the pressure still unchanged in Alberta, while a second center of high pressure is apparent in eastern Nebraska and Kansas. The cold wave has advanced to the central Mississippi Valley and nearly to the Gulf Coast in the Southwest. At the level of 5,000 feet a general rise in pressure is shown, most marked in the central and southern districts. A center of high pressure is found in northwestern Colorado with a second center to the southeast, which apparently forms one area with the center shown by the weather map in eastern Nebraska and Kansas. On the evening of the 7th the weather map shows an extensive area of very high pressure central near Kansas City. The upper isobars indicate a center of high pressure in the same region, but with decided differences in the distribution of pressure in the northern Rocky Mountain districts. The cold wave has now reached southward to the Gulf Coast

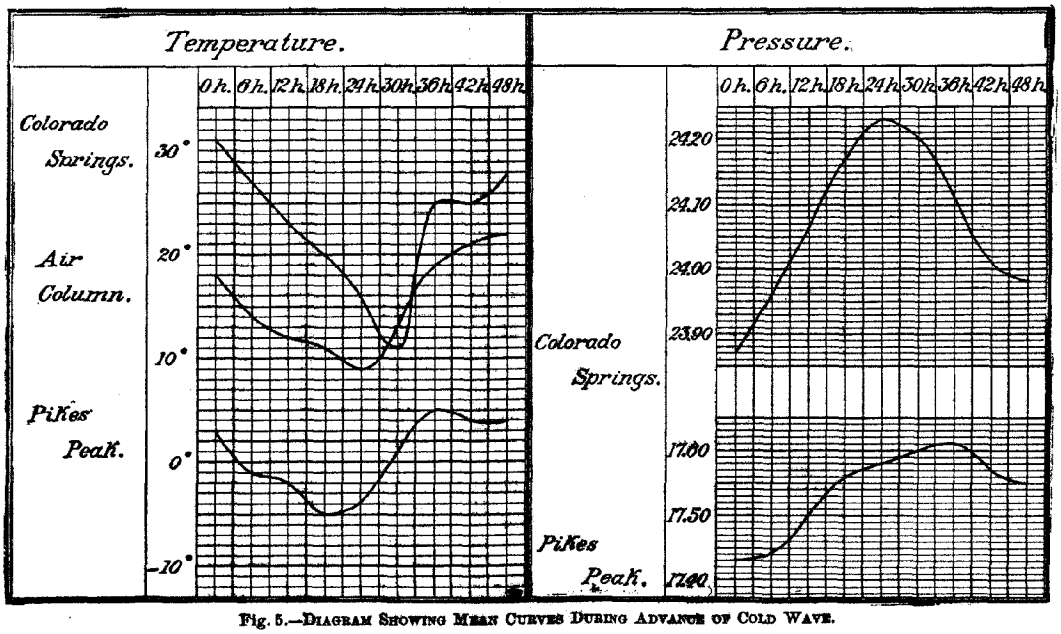


Fig. 5.—Diagram Showing Mean Curves During Advance of Cold Wave.

and passed eastward across the lake regions. The weather map on the morning of the 8th shows a movement of the area of high pressure to the east, its center being in western Kentucky. By the upper isobars a movement of the center of high pressure to the southeast is shown, with the appearance of a depression in the north. The cold wave has reached the Atlantic Coast districts.

In this series of charts of upper isobars, we find areas of high pressure existent and subject to translation as was found to be the case with areas of low pressure. A comparison with the weather maps will show that the surface winds conform fairly well to these upper isobars and gradients. The upper distribution of pressure, however, in the case of the *high*, departs much more widely from the pressure distribution shown on the weather maps than did that shown in the case of the *low*. There are indications, although the data examined are insufficient in amount to justify the final deduction, that at the elevation of 5,000 feet the inception of the cold wave in the extreme Northwest is rather a sequence to the passage of an area of low pressure than an effect of an advancing *high*. Confirmation of this view is found in the charts of Pl. I. The *low* therein shown is followed by even lower temperatures than were experienced in the period under consideration and a sharp cold wave occurred throughout the districts between the Mississippi River

and the Rocky Mountains. The area of high pressure is also of much less marked character in elevated districts than it afterwards becomes in the adjacent regions at a lower level. This suggests the idea that the cold wave may be an accompaniment of the passage of the area of low pressure and that the high pressure follows as a sequence and is largely a product of the cold, dry, and dense lower layers of the atmosphere. The subject requires much more extended examination than can be given in the present article.

Mean curves of temperature and pressure fluctuations at Pikes Peak and Colorado Springs during this type of weather conditions are given in the diagram (p. 240).

From these it appears that the rise of pressure is well marked at Colorado Springs, amounting to nearly four-tenths of an inch. The subsequent fall is less rapid and extensive. At Pikes Peak the rise in pressure is also clearly seen, but is less decided and more protracted, the maximum being reached twelve hours later than at the Springs. The temperature curves show a steady fall accompanying the rise in pressure, the minimum occurring first at Pikes Peak, following six hours later in the air column, and twelve hours later at Colorado Springs. The recovery is most rapid at the lower station and least so at the Peak. We have in these curves the anomaly, at the time of greatest cold at Colorado Springs, of the temperature of the air column being higher than that at either station.

As in the case of areas of low pressure, previously discussed, we have here essentially the same sequence of events as at low levels. Both *highs* and *lows*, therefore, cross the Rocky Mountains, although, as pointed out above, it is probable that the *highs* are more accentuated at lower levels. In other words, the vertical gradient in the area of high pressure probably increases rapidly as sea level is approached.

(*d*) ***Persistent Highs of the Plateau Region.***

TABLE V.—CONDITIONS DURING PREVALENCE OF PLATEAU HIGH.

Date.	Time.	Pressure (in inches).		Temperature (in degrees F.).		
		Pikes Peak.	Colorado Springs.	Pikes Peak.	Colorado Springs.	Air column.
1893.						
Jan. 21	8 a. m.....	17.69	24.12	6	15	25
	2 p. m.....	.72	.10	10	41	29
	8 p. m.....	.74	.14	7	31	28
22	2 a. m.....	.77	.19	7	23	27
	8 a. m.....	.78	.20	9	22	28
	2 p. m.....	.79	.18	9	49	30
	8 p. m.....	.77	.14	12	33	31
23	2 a. m.....	.77	.18	6	26	28
	8 a. m.....	.77	.22	5	24	25
	2 p. m.....	.78	.16	16	46	30
	8 p. m.....	.75	.09	12	36	32
24	2 a. m.....	.70	.00	14	29	34
	8 a. m.....	.69	23.97	13	39	35
	2 p. m.....	.68	.96	14	53	35
	8 p. m.....	.62	.94	11	38	30
Feb. 17	8 a. m.....	17.66	24.08	7	30	25
	2 p. m.....	.71	.16	6	40	24
	8 p. m.....	.73	.20	4	37	23
18	2 a. m.....	.74	.25	1	22	21
	8 a. m.....	.72	.28	— 1	19	17
	2 p. m.....	.77	.24	7	39	24
	8 p. m.....	.74	.23	3	36	22
19	2 a. m.....	.72	.21	— 1	23	22
	8 a. m.....	.71	.14	5	25	25
	2 p. m.....	.71	.03	14	47	33
	8 p. m.....	.58	23.92	8	43	28
20	2 a. m.....	.54	.87	3	40	28
	8 a. m.....	.51	24.00	— 3	32	17
	2 p. m.....	.61	.08	2	36	20
	8 p. m.....	.63	.07	4	37	23
21	2 a. m.....	.64	.07	6	20	24
	8 a. m.....	.64	.07	9	21	24

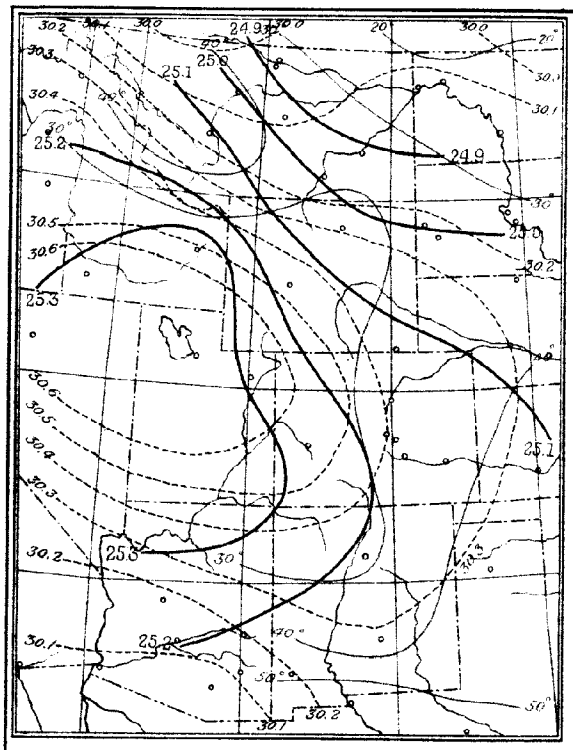
The last type of weather conditions to be considered is that indicated on our weather maps by an immobile area of high pressure in the western plateau region. Data are included in Table V for two periods during which this condition obtained. Epochal means in this case will have no value and are omitted.

The general conditions in the Rocky Mountain region during one of these periods are shown on the charts of Pl. IV. Very similar conditions had already prevailed for three days previous to the period covered by the charts and continued for thirty-six hours subsequent to its close. Throughout this series of charts a close agreement is shown between the pressure distribution as determined by the upper isobars and that indicated on the weather map. There exists over the western plateau a stationary area of high pressure, with a considerable gradient on its northeast side. The temperatures are high and change but little. This long-continued stagnation in the midst of the rapid rush of changing conditions peculiar to our winter weather is a most perplexing phenomenon, of which, so far, no explanation has been offered. These charts serve to further emphasize the existence of well-defined *highs* at this altitude. From the data of the table it is seen that the pressure is equally unvarying at both Pikes Peak and Colorado Springs, while the temperature fluctuates slightly, but irregularly.

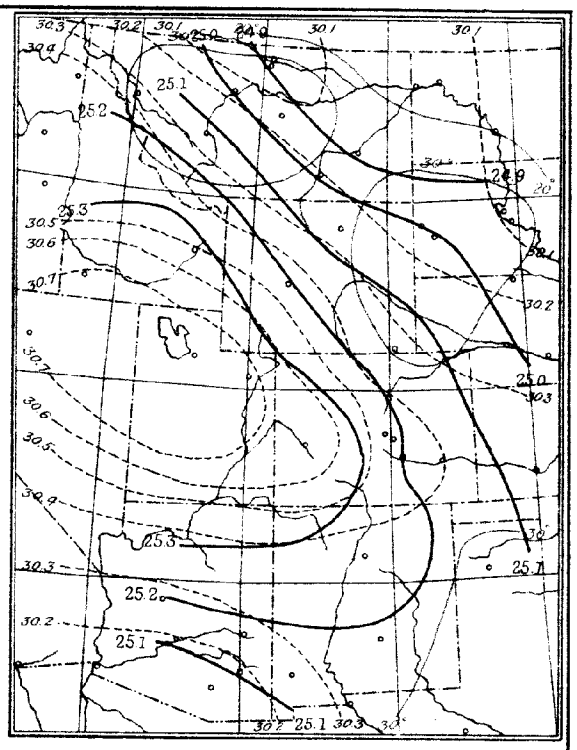
In the previous pages no reference has been made to the winds at these stations. In the case of abnormal disturbances the data are not sufficient for the drawing of specific conclusions of value. In any case the winds at Colorado Springs are of little general interest, the local effects caused by the nearness of mountain walls causing very anomalous results. Of Pikes Peak little is to be said beyond the fact that the prevailing winds are from westerly quarters at all seasons. The reversals, however, are not infrequent, and clearly show that the effects of abnormal pressure disturbances are felt at this elevation. The evidence from this source merely confirms that already adduced from the pressure record itself. From a longer series of observations valuable data as to the true normal direction and velocity of upper currents might doubtless be obtained, but from so short a record as we now have no reliable results could be expected.

This paper is necessarily brief because of the limited time at my disposal and the clerical assistance available for computations and reductions. The upper isobaric charts presented in illustration of abnormal conditions had to be chosen from indications shown by our weather maps. Had it been possible to prepare a longer series of such charts, cases of more typical character could doubtless have been selected. The curves of mean diurnal and annual fluctuations are to be regarded only as showing the general character of these phenomena. In the annual temperature curves particularly the effect of the shortness of record is shown in the irregular fluctuation during January. But, while the record is short and the discussion brief, it is hoped that the work may at least prove suggestive for future and more extensive investigations in the meteorology of the elevated regions of the United States. We have in this country conditions for surface observations at high levels probably nowhere else equaled in a readily accessible and civilized district of such extent. The Weather Bureau has, moreover, an incentive to work in this line in the fact that out of this region issue a great part of the storms and all the cold waves which sweep across the more populous districts of the country.

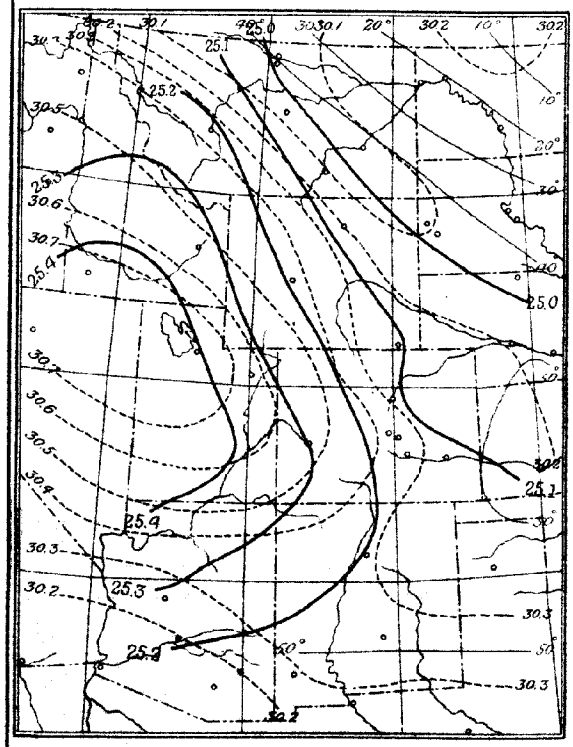
PLATE IV.--THE PLATEAU HIGH AREA.



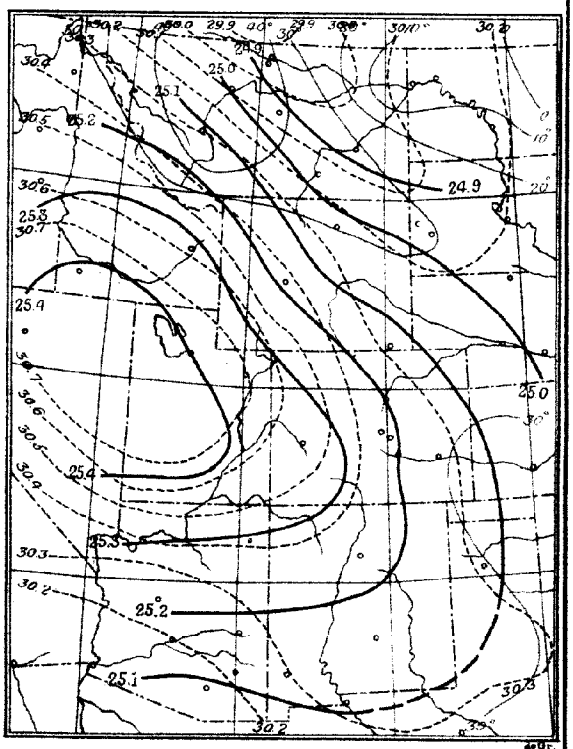
JANUARY 21. 1893, 8 P. M.



JANUARY 22, 1893, 8 A. M.



JANUARY 22, 1893, 8 P. M.



JANUARY 23, 1893, 8 A. M.

THE MORRIS PETERS CO. PHOTO-LITHO. WASHINGTON, D. C.

SNOWFALL OF THE UNITED STATES, 1895–96.

SNOWFALL AT WEATHER BUREAU STATIONS, SEASON 1895–96.

[INCHES AND TENTHS.]

The figures in the table give the actual depth of snowfall for each month of the period September, 1895–June, 1896, as determined by ground measurements where the snow appeared to be of average depth.]

Stations.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.
Abilene, Tex			2.5	1.5			T.		
Albany, N. Y		T.	2.2	T.	7.1	15.3	23.8	3.2	
Alpena, Mich		3.9	19.3	10.4	10.6	6.6	1.1	1.8	
Amarillo, Tex			0.7	7.5	0.3	3.1	1.2		
Astoria, Oreg				1.0	0.5	2.0	2.5		
Atlanta, Ga				0.1		T.	0.1		
Augusta, Ga						T.	T.		
Baker City, Oreg	T.		1.1	13.8	4.0	3.5	5.2	4.3	1.3
Baltimore, Md		T.	T.	0.2	1.0	2.1	13.8	T.	
Bismarck, N. Dak		T.	16.2	2.9	8.6	3.5	5.2	0.6	
Block Island, R. I				6.9	8.9	4.3	16.2	0.1	
Boston, Mass			T.	5.2	9.5	9.5	14.5	0.2	
Buffalo, N. Y		5.6	2.1	9.1	8.2	33.4	13.4	0.2	
Cairo, Ill			T.	10.7	0.2	1.8	1.2		
Canby, Fort, Wash				T.	1.0	1.0	3.3		
Cape Henry, Va				3.0	T.	0.5	0.1		
Carson City, Nev			6.0	9.7	0.3	0.1	4.2	6.8	
Charleston, S. C						T.			
Charlotte, N. C				0.5	0.1	1.0	0.4		
Chattanooga, Tenn			T.	1.7	0.2	T.	T.		
Cheyenne, Wyo	3.3	0.5	6.3	1.8	6.8	3.1	20.6	8.4	T.
Chicago, Ill		T.	14.5	3.4	2.0	27.8	8.9	T.	
Cincinnati, Ohio			0.2	6.8	1.4	7.0	13.9	T.	
Cleveland, Ohio		0.3	1.3	9.9	3.4	21.3	9.9	2.1	
Columbia, Mo			6.0	2.3	5.7	7.5	6.2		
Columbia, S. C						0.4	0.2		
Columbus, Ohio			0.1	3.4	3.0	6.0	10.7	T.	
Concordia, Kans			2.0	0.1	1.6	2.0	10.0		
Davenport, Iowa			8.7	1.8	4.4	11.0	2.4	4.5	
Denver, Colo	11.4	2.2	3.8	0.7	3.8	4.5	19.9	0.5	1.5
Des Moines, Iowa			1.2	9.1	3.1	5.2	7.9	T.	
Detroit, Mich		0.1	4.5	22.5	2.6	14.0	10.5	0.1	
Dodge City, Kans			0.8	2.1	T.	T.	2.4		
Duluth, Minn		0.3	5.1	4.9	13.3	2.1	12.7	12.0	
East Clallam, Wash				11.0	23.0	3.0	T.		
Eastport, Me		0.3	2.5	8.3	7.7	22.0	13.1	3.6	
Elpaso, Tex				0.1	T.	0.3	T.		
Erie, Pa	T.	12.0	3.1	10.1	7.6	17.3	20.9	0.8	
Eureka, Cal							2.9		
Evansville, Ind				10.8	T.	2.5	4.8		
Fort Smith, Ark			0.8	0.3	1.8	T.	2.1		
Fresno, Cal							T.		
Grand Haven, Mich		0.1	21.8	5.8	8.0	16.9	5.6	0.6	
Green Bay, Wis		2.7	7.5	4.2	8.3	2.8	3.7	3.3	
Hannibal, Mo			4.7	1.2	2.7	7.8	5.0		
Harrisburg, Pa		T.	T.	0.5	1.0	10.0	21.2	T.	
Hatteras, N. C						T.	T.		
Havre, Mont			3.5	3.2	13.5	5.2	6.7	6.1	0.3
Helena, Mont		0.6	6.7	10.2	7.2	5.1	13.5	11.4	3.5
Huron, S. Dak		T.	5.8	2.0	2.3	4.0	6.0	T.	
Idaho Falls, Idaho	0.2		5.9	10.4	2.1	5.0	17.6	3.3	10.2
Indianapolis, Ind			1.2	21.5	1.1	5.2	17.8	T.	
Kansas City, Mo		T.	3.8	11.5	6.3	3.1	4.6		
Keokuk, Iowa			3.3	0.9	2.7	11.4	2.9		
Kittyhawk, N. C				T.		5.0	T.		
Knoxville, Tenn			T.	2.7	T.	T.	0.8		
La Crosse, Wis			10.9	12.5	5.7	2.5	2.2	2.6	

SNOWFALL AT WEATHER BUREAU STATIONS, SEASON 1895-96—Continued.

Stations.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.
Lander, Wyo	16.7	1.2	23.0	T.	2.4	2.6	25.6	9.4	0.4
Lexington, Ky			T.	3.7	0.2	7.9	16.3		
Little Rock, Ark				3.1	T.	T.	T.		
Louisville, Ky			T.	9.7	T.	8.3	14.0		
Lynchburg, Va			T.	3.1	T.	1.0	6.8		
Marquette, Mich		10.9	21.6	23.0	18.2	17.3	10.9	3.9	
Memphis, Tenn				1.4	0.5	3.4	3.3		
Meridian, Miss				T.			T.		
Miles City, Mont	T.		7.6	3.1	4.6	5.1	1.9	1.0	
Milwaukee, Wis		T.	18.4	3.1	8.4	13.1	8.4	T.	
Minneapolis, Minn		0.4	2.6	0.6	5.2	2.2	8.6		
Mobile, Ala				T.					
Montgomery, Ala				T.			T.		
Moorhead, Minn		1.6	6.0	1.5	5.4	8.2	12.0	8.3	
Nantucket, Mass			T.	2.4	6.7	6.5	16.4	0.1	
Narragansett Pier, R. I				4.0	7.0	2.5	16.0		
Nashville, Tenn			T.	1.3	0.1	3.3	0.3		
Neah Bay, Wash			T.	1.5	15.5	3.0	T.		
New Brunswick, N. J				0.8					
New Haven, Conn			T.	0.5	7.6	14.0	13.0	T.	
New York, N. Y			T.	T.	3.0	8.8	28.5	1.7	
Norfolk, Va				2.5	T.	1.2	2.0		
Northfield, Vt		1.4	7.4	1.9	12.3	22.1	42.5	2.2	
North Platte, Nebr	T.		8.4	1.4	0.6	0.8	9.6	T.	
Oklahoma, Okla			2.5	3.0	0.2				
Omaha, Nebr		T.	3.6	1.5	1.7	2.6	10.8	T.	
Oswego, N. Y		10.3	2.5	4.1	14.5	20.3	18.2	5.0	
Palestine, Tex				T.		T.			
Parkersburg, W. Va			T.	4.4	1.0	5.4	22.0	0.1	
Philadelphia, Pa		T.		0.5	1.0	4.0	9.3	T.	
Pierre, S. Dak			3.7	0.1	7.4	6.0	7.6	2.5	
Pittsburg, Pa	T.		0.4	3.1	0.7	6.7	17.0	0.4	
Port Angeles, Wash				3.4	8.8	1.2	4.6		
Port Crescent, Wash				7.8	12.3	2.8	1.9		
Port Huron, Mich		T.	2.1	9.1	1.6	10.8	5.1	0.5	
Portland, Me			4.2	5.3	13.3	18.4	29.1	6.8	
Portland, Oreg				1.1	6.0	0.8	1.2		
Pueblo, Colo	0.2		3.8	4.7	0.5	2.5	7.1	T.	
Pysht, Wash				5.0	[1]17.0	3.0			
Raleigh, N. C			T.	T.		7.0	0.5		
Rapid City, S. Dak	1.6		11.0	1.3	3.3	2.6	14.2	6.3	
Red Bluff, Cal							4.0		
Rochester, N. Y		1.5	5.9	8.7	22.5	39.1	45.1	1.0	
Roseburg, Oreg				4.2	T.	1.2	11.3	T.	
St. Louis, Mo			4.0	3.5	T.	3.1	6.6		
St. Paul, Minn		0.6	2.6	3.5	6.8	2.0	12.6		
St. Vincent, Minn		3.8	7.1	6.5	13.7				
Salt Lake City, Utah	T.		16.0	8.1	3.3	3.2	9.0	0.6	T.
Sandusky, Ohio		T.	1.1	7.9	0.9	7.3	8.2	T.	
San Francisco, Cal							0.5		
San Luis Obispo, Cal							T.		
Santa Fe, N. Mex		0.5	8.4	12.7	2.2	6.0	4.8	10.8	T.
Sault Ste. Marie, Mich	T.	19.7	11.3	16.7	42.6	16.2	8.2	1.0	
Savannah, Ga						T.			
Seattle, Wash				3.5	3.9	1.8	1.2		
Shreveport, La						T.			
Sioux City, Iowa			5.9	1.0	0.4	2.4	5.1	0.3	
Spokane, Wash			6.1	19.0	15.5	2.0	4.0	0.9	T.
Springfield, Ill			5.1	1.5	0.5	4.6	4.6		
Springfield, Mo			6.0	3.0	3.5	4.7	8.5		
Tatoosh Island, Wash			T.	T.	6.1	1.6	0.2		
Toledo, Ohio		T.	3.7	23.5	1.3	21.4	13.4	0.4	
Topeka, Kans			0.3	3.7	2.6	2.2	2.6		
Vineyard Haven, Mass			T.	4.6	4.5	3.0	15.7		
Walla Walla, Wash			T.	8.2	6.3	3.4	1.1	T.	
Washington, D. C			T.	1.2	0.2	0.1	7.7	0.1	
Wichita, Kans			0.1	2.0	0.9	0.8	6.9		
Williston, N. Dak		T.	23.1	6.4	20.7	6.9	11.0	26.6	
Wilmington, N. C						12.1	T.		
Winnemucca, Nev	T.		1.8	10.3	3.4	2.2	5.2	9.8	8.4
Woods Hole, Mass		T.	T.	9.6	7.0	2.3	14.3	0.7	

[1] For 28 days.

SUNSHINE, 1895.

The following tables give for 37 stations the percentages of hourly sunshine as derived from the automatic records made by two essentially different types of instruments, designated the thermometric recorder and the photographic recorder, respectively. The kind of instrument in use at each station is indicated by the letter T. (thermometric) or P. (photographic) at the right of the name of the station.

Both instruments have been described and illustrated in the preceding volumes of this series.

Neither of these instruments will record satisfactorily the duration of sunshine for about one hour after sunrise and about one hour before sunset, and on this account it has been considered necessary to apply to the record for these hours what has been designated a "twilight correction." The amount of this correction is found by noting the comparative clearness of the sky during the time that elapses between the hour of sunrise and the moment the instrument begins to record, and between the time the instrument ceases to act and the hour of sunset.

ATLANTA, GA. (T.).

[N. lat. 33° 45′.]

Month.	Percentage of sunshine recorded during hours ending (local time)—																Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	.....	19	26	35	51	52	53	50	52	49	39	33	.....	.....	134.2	42
February	.....	.....	54	48	55	61	69	71	71	69	65	55	56	44	.....	.....	187.1	79
March	.....	78	48	49	58	65	78	81	80	78	69	65	61	49	50	.....	242.6	65
April	.....	37	43	51	65	75	79	82	84	89	86	91	68	59	45	.....	274.3	70
May	55	58	54	57	64	70	76	78	79	76	70	68	63	51	37	67	278.9	65
June	68	67	73	80	90	97	98	97	94	88	84	83	74	61	26	11	338.1	78
July	8	34	46	63	72	80	87	94	93	95	89	76	66	60	36	23	308.2	70
August	.....	51	48	52	61	79	85	88	83	76	64	56	49	34	18	.....	254.5	61
September	.....	53	60	68	76	74	79	83	81	84	83	69	60	56	22	.....	266.0	72
October	.....	50	65	67	73	79	84	85	85	86	81	78	72	80	.....	.....	273.2	78
November	.....	.....	32	37	59	73	78	74	79	77	68	63	47	33	.....	.....	200.6	61
December	.....	.....	32	32	42	50	60	66	61	60	63	49	45	40	.....	.....	162.9	53
Sum	121	428	555	623	741	838	924	951	943	928	874	802	700	600	234	101	2,920.6	.....
Percentage of possible.	40	54	50	52	62	70	77	79	79	77	73	67	58	50	33	34	.....	66

BALTIMORE, MD. (T.).

[N. lat. 39° 18′.]

January	.....	.....	.....	27	42	53	65	74	69	60	56	45	39	39	.....	.....	162.4	54
February	.....	.....	44	47	63	88	92	94	93	93	92	80	62	58	.....	.....	236.6	79
March	.....	50	41	55	66	77	80	84	79	77	77	73	75	52	61	.....	260.3	70
April	.....	42	47	64	72	78	80	84	87	81	75	70	60	51	37	.....	269.5	68
May	50	42	42	45	51	56	64	73	76	78	63	57	48	33	29	33	239.5	54
June	57	57	57	61	63	62	69	71	73	74	67	65	51	43	42	43	269.8	60
July	49	55	58	65	68	78	81	82	85	85	87	77	68	58	38	35	313.5	69
August	.....	74	72	76	88	95	94	96	97	95	87	82	63	59	45	42	341.7	81
September	.....	53	53	55	72	77	90	91	88	90	85	83	76	77	88	.....	290.2	78
October	.....	70	50	50	61	79	82	78	85	86	84	71	65	73	.....	.....	249.4	72
November	.....	.....	19	27	31	40	48	50	54	60	57	47	46	.....	.....	.....	136.3	45
December	.....	.....	.....	29	29	39	44	44	45	38	35	25	23	.....	.....	.....	104.3	36
Sum	156	443	483	601	706	822	889	921	931	917	865	775	676	543	340	153	2,872.5	.....
Percentage of possible.	52	55	48	50	59	68	74	77	78	76	72	65	56	54	49	38	.....	64

BISMARCK, N. DAK. (P.).

[N. lat. 46° 47′.]

Month.	Percentage of sunshine recorded during hours ending (local time)—																Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	.....	40	42	53	55	55	48	55	52	47	44	30	.....	.....	141.6	51
February	.....	.....	29	24	36	45	51	52	56	58	42	39	39	42	.....	.....	128.8	45
March	.....	25	48	53	67	74	70	60	57	59	60	50	47	46	41	.....	212.0	57
April	44	34	37	34	42	45	42	34	52	55	57	56	47	36	33	17	177.1	43
May	43	42	48	53	59	54	50	51	49	53	44	38	39	32	42	41	216.2	46
June	54	56	68	66	63	66	64	57	53	51	57	59	52	46	47	48	269.8	57
July	49	49	58	68	70	73	77	74	68	70	70	62	59	47	42	42	294.6	61
August	50	53	61	69	73	78	81	76	72	77	74	77	67	57	41	38	298.7	68
September	.....	35	49	65	67	71	73	64	63	67	69	67	62	49	50	.....	236.8	63
October	.....	.....	43	59	75	85	85	85	73	73	71	74	53	44	.....	.....	238.6	71
November	.....	.....	11	*4	11	20	28	28	28	28	24	11	0	.....	.....	.....	54.5	19
December	.....	.....	.....	31	35	46	61	50	44	40	29	1	0	.....	.....	.....	98.0	37
Sum	240	294	452	566	640	710	737	686	663	686	649	581	509	429	296	186	2,366.7	.....
Percentage of possible.	48	42	45	47	53	59	61	57	55	57	54	48	42	43	42	37	.....	52

BOSTON, MASS. (T.).

[N. lat. 42° 21′.]

January	.....	.....	.....	38	42	45	47	50	49	55	59	54	43	33	.....	.....	143.3	49
February	.....	.....	53	68	79	81	85	87	80	75	72	67	56	48	.....	.....	218.0	74
March	.....	83	55	53	58	64	67	65	66	62	62	50	46	49	38	.....	214.9	58
April	0	40	44	42	53	55	61	59	64	62	56	48	47	37	29	.....	202.5	50
May	50	52	57	56	65	73	80	79	78	80	74	65	48	48	46	21	236.8	63
June	27	27	39	55	62	66	73	73	72	72	72	60	50	46	41	34	253.9	56
July	14	23	37	57	72	76	77	77	81	70	68	61	46	39	32	10	252.8	55
August	14	52	58	61	67	74	84	83	80	75	79	75	66	55	32	14	289.1	67
September	.....	47	48	62	69	72	82	83	83	81	76	68	56	47	45	.....	254.8	68
October	.....	100	50	57	60	63	69	68	71	63	63	57	51	43	.....	.....	207.7	61
November	.....	.....	12	17	22	37	43	46	48	47	45	39	32	.....	.....	.....	109.8	37
December	.....	.....	.....	33	37	45	46	45	48	50	43	44	34	.....	.....	.....	123.2	43
Sum	105	424	453	599	686	751	814	815	820	792	764	688	575	445	263	79	2,556.8	.....
Percentage of possible.	21	53	45	50	57	63	68	68	68	66	64	57	48	44	38	20	.....	57

BUFFALO, N. Y. (T.).

[N. lat. 42° 53′.]

January	.....	.....	.....	1	8	21	33	40	41	40	36	36	21	11	.....	.....	85.3	29
February	.....	.....	19	17	25	39	59	66	65	59	61	50	36	30	.....	.....	138.1	47
March	.....	17	20	33	55	63	67	73	75	75	70	57	43	25	31	.....	205.1	55
April	20	27	33	47	53	58	69	65	69	61	59	56	52	37	22	.....	208.6	52
May	47	39	56	81	88	89	86	85	87	84	83	82	76	68	39	51	333.2	73
June	13	14	33	58	73	86	89	84	78	78	79	84	69	51	24	19	275.7	60
July	0	0	15	57	61	74	76	80	79	80	78	68	59	37	14	15	243.5	52
August	0	6	9	36	55	65	78	80	85	83	77	75	57	40	18	13	236.3	55
September	.....	18	22	44	57	59	70	73	78	77	79	70	60	39	27	.....	221.0	59
October	.....	33	16	15	25	47	45	53	49	49	50	40	23	26	.....	.....	128.9	38
November	.....	.....	14	16	27	39	43	42	43	40	34	19	7	.....	.....	.....	92.7	32
December	.....	.....	.....	3	7	15	25	32	42	33	21	8	0	.....	.....	.....	57.3	20
Sum	80	154	237	408	534	655	740	773	791	759	727	645	503	364	175	98	2,225.7	.....
Percentage of possible.	16	19	24	34	44	55	62	64	66	63	61	54	42	36	25	24	.....	48

CHICAGO, ILL. (T.).

[N. lat. 41° 52.′]

January	.....	.....	.....	29	24	47	54	58	58	55	49	35	41	9	.....	.....	135.5	46
February	.....	.....	55	46	55	66	77	78	81	82	73	60	56	66	.....	.....	200.8	67
March	.....	67	51	55	66	69	71	75	78	78	77	74	65	56	53	.....	253.8	68
April	0	40	53	65	72	80	81	86	80	81	81	70	59	40	44	.....	271.3	68
May	60	53	70	77	81	85	89	93	87	85	80	78	71	56	42	54	332.1	73
June	53	60	78	84	91	94	94	99	98	90	90	88	80	78	59	65	375.5	83
July	23	31	67	95	97	96	97	99	98	98	100	99	95	72	48	45	379.7	82
August	60	36	63	70	87	90	91	93	91	92	93	90	83	70	50	44	338.6	79
September	.....	63	65	76	87	94	95	98	89	90	93	91	88	77	79	.....	321.1	86
October	.....	100	65	68	78	86	83	84	83	79	78	73	68	71	.....	.....	263.8	77
November	.....	.....	31	27	37	38	46	51	52	50	47	35	37	.....	.....	.....	121.2	41
December	.....	.....	.....	14	15	24	31	35	38	33	31	32	31	.....	.....	.....	79.4	28
Sum	196	450	598	706	780	869	909	934	933	913	892	825	774	595	375	208	3,072.3	.....
Percentage of possible.	39	56	60	59	65	72	76	78	78	76	74	69	64	60	54	52	.....	66

CINCINNATI, OHIO (P.).

[N. lat. 39° 6′.]

Month.	Percentage of sunshine recorded during hours ending (local time)—																Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	.....	32	38	37	47	46	47	47	49	40	35	47	.....	.....	128.5	42
February	.....	.....	43	58	64	60	68	62	67	66	65	67	66	65	.....	.....	193.5	64
March	.....	75	49	47	56	57	62	65	65	66	61	55	51	47	65	.....	211.6	57
April	.....	64	60	59	62	69	75	67	58	57	64	60	60	62	65	.....	248.6	63
May	61	65	65	62	69	71	71	66	67	71	66	65	64	67	68	81	296.7	67
June	84	83	69	77	87	96	95	94	93	93	92	87	83	81	77	72	382.4	86
July	65	62	64	69	83	87	91	88	93	94	97	92	82	77	64	45	363.8	80
August	.....	76	70	78	80	89	92	94	92	90	98	97	88	77	61	55	359.0	85
September	.....	78	81	82	80	87	92	95	93	97	91	89	78	74	69	.....	321.6	86
October	.....	100	94	92	87	82	85	83	85	85	82	79	76	74	.....	.....	290.8	84
November	.....	.....	44	41	41	37	48	44	44	43	38	34	36	.....	.....	.....	123.0	41
December	.....	.....	.....	32	38	38	38	38	35	27	29	24	23	.....	.....	.....	95.5	33
Sum	210	603	639	729	785	810	864	842	839	836	832	789	742	671	469	253	[1]3,015.0	.....
Percentage of possible.	70	75	64	61	65	68	72	70	70	70	69	66	62	67	67	63	.....	66

[1] Includes periods when smoke or haze prevented the instrument from registering and a large twilight correction (667 h) due to the environment of the city.

CLEVELAND, OHIO (P.).

[N. lat. 41° 30′.]

January	.....	.....	.....	7	14	24	30	28	30	34	33	22	14	5	.....	.....	72.6	24
February	.....	.....	33	28	30	41	51	50	50	58	59	55	42	27	.....	.....	134.9	45
March	.....	42	35	26	35	38	40	42	39	41	51	49	45	35	48	.....	148.6	40
April	100	54	54	56	64	64	66	65	71	71	66	59	55	43	30	.....	237.3	59
May	64	66	70	68	74	76	75	71	73	69	66	66	68	69	50	58	309.1	69
June	59	58	70	77	78	80	77	80	76	76	76	77	74	71	66	69	332.6	73
July	39	37	44	57	74	81	78	80	91	90	84	77	61	64	54	49	312.9	68
August	25	49	45	67	75	83	88	82	79	75	74	72	72	59	42	57	295.9	69
September	.....	39	41	51	60	70	69	71	71	70	67	64	49	35	58	.....	222.4	59
October	.....	44	52	55	63	72	68	62	65	64	62	63	43	46	.....	.....	208.4	61
November	.....	.....	20	25	30	38	29	31	31	28	26	22	22	.....	.....	.....	84.2	28
December	.....	.....	.....	19	23	31	36	39	43	36	33	22	3	.....	.....	.....	86.2	30
Sum	287	389	473	536	620	698	707	701	719	712	697	648	548	454	348	233	2,445.1	.....
Percentage of possible.	57	49	47	45	52	58	59	58	60	59	58	54	46	45	50	58	.....	52

COLUMBUS, OHIO (T.).

[N. lat. 39° 58′.]

January	.....	.....	.....	0	13	31	39	50	47	42	40	29	21	46	.....	.....	97.5	32
February	.....	.....	36	26	31	53	63	74	78	76	70	53	45	47	.....	.....	169.4	56
March	.....	58	46	47	55	57	64	65	66	70	68	59	51	29	11	.....	207.7	56
April	.....	53	57	69	80	86	85	85	92	90	81	71	60	41	32	.....	286.0	72
May	41	38	56	71	77	80	81	79	77	76	77	78	74	61	48	54	307.4	69
June	54	58	77	80	86	94	94	92	93	90	89	89	83	75	62	43	363.4	81
July	18	16	31	63	79	86	92	91	92	91	91	84	71	52	14	10	298.8	66
August	0	31	34	60	79	84	82	83	78	79	75	73	59	34	14	13	262.9	62
September	.....	31	30	40	67	71	75	75	76	74	74	64	58	37	33	.....	226.8	61
October	.....	100	26	26	43	70	71	75	75	67	67	56	40	38	.....	.....	193.4	56
November	.....	.....	27	19	48	57	54	61	59	51	50	31	16	.....	.....	.....	135.3	45
December	.....	.....	.....	12	20	33	42	42	45	43	37	19	10	.....	.....	.....	91.9	32
Sum	113	385	420	513	678	802	842	872	878	849	819	706	588	460	214	120	2,640.5	.....
Percentage of possible.	28	48	42	43	56	67	70	73	73	71	68	59	49	46	31	30	.....	57

DENVER, COLO. (P.).

[N. lat. 39° 45′.]

January	.....	.....	.....	64	69	80	84	79	76	84	80	68	44	2	.....	.....	219.6	73
February	.....	.....	31	42	58	62	70	72	69	78	71	61	50	40	.....	.....	185.4	62
March	.....	50	68	65	70	74	81	79	73	78	79	72	70	56	41	.....	266.1	72
April	.....	66	73	76	73	82	83	79	66	63	68	61	58	55	48	.....	274.0	69
May	66	64	77	80	75	70	75	75	77	71	69	59	54	55	53	43	303.0	68
June	57	63	66	74	74	82	81	74	66	63	66	66	68	56	62	50	303.9	68
July	59	63	62	67	75	74	75	65	63	59	55	46	42	44	43	42	268.2	59
August	.....	67	79	83	79	85	88	86	77	81	70	74	68	41	40	21	306.3	72
September	.....	90	84	87	88	90	91	93	92	95	89	88	87	86	75	.....	333.3	89
October	.....	80	78	82	86	89	90	91	86	89	83	79	69	61	.....	.....	287.5	83
November	.....	.....	64	57	69	78	81	79	59	66	72	68	56	.....	.....	.....	203.9	68
December	.....	.....	.....	74	79	85	84	86	84	79	72	77	70	.....	.....	.....	232.2	79
Sum	182	543	682	851	900	951	983	958	888	906	874	819	726	496	362	156	3,183.4	.....
Percentage of possible.	61	68	68	71	75	79	82	80	74	76	73	68	60	50	52	39	.....	72

DES MOINES, IOWA (T.).

[N. lat. 41° 35′.]

Month.	Percentage of sunshine recorded during hours ending (local time)—																Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	.....	41	47	47	62	67	75	68	61	51	55	47	.....	.....	172.2	58
February	.....	.....	52	55	53	62	65	71	82	76	56	51	54	61	.....	.....	185.3	62
March	.....	67	67	65	65	76	74	71	73	75	67	62	44	39	43	.....	239.3	64
April	.....	69	68	65	63	66	68	72	76	66	64	58	48	45	43	.....	250.0	62
May	62	54	53	59	60	61	62	60	64	66	66	60	54	45	47	62	262.0	58
June	61	60	57	61	63	66	69	78	73	60	50	57	50	47	49	56	272.1	60
July	61	58	57	65	76	79	82	78	76	79	74	67	64	69	71	75	327.3	71
August	75	65	61	69	83	87	85	90	91	91	90	87	87	83	65	54	347.6	81
September	.....	73	78	78	83	89	96	95	94	89	87	79	74	71	75	.....	314.4	84
October	.....	100	74	75	79	85	87	92	94	95	84	85	66	70	.....	.....	285.2	83
November	.....	.....	45	38	42	44	48	51	54	51	42	39	35	.....	.....	.....	132.0	45
December	.....	.....	.....	38	39	43	53	55	55	51	47	45	49	.....	.....	.....	136.5	48
Sum	259	546	612	709	753	805	851	880	907	867	788	741	680	577	393	247	2,923.9	.....
Percentage of possible.	65	68	61	59	63	67	71	73	76	72	66	62	57	58	56	62	.....	65

DETROIT, MICH. (T.).

[N. lat. 42° 20′.]

January	.....	.....	.....	22	19	38	43	60	68	64	61	41	31	42	.....	.....	135.0	46
February	.....	.....	50	49	49	76	84	87	93	92	89	70	45	45	.....	.....	212.4	72
March	.....	0	11	35	58	71	71	77	77	73	67	64	54	40	38	.....	216.8	59
April	100	37	45	67	74	79	84	84	85	84	83	68	54	41	37	.....	270.0	67
May	55	50	58	71	77	74	72	71	72	77	80	73	66	67	51	57	307.9	68
June	53	53	62	74	88	86	86	84	92	91	86	82	83	78	63	56	353.2	77
July	3	6	14	51	84	87	92	93	93	94	88	79	72	55	24	11	290.9	63
August	29	49	55	72	83	85	88	88	89	87	91	89	83	66	50	39	330.6	77
September	.....	37	34	59	74	82	87	90	88	90	84	80	68	55	47	.....	273.2	73
October	.....	100	42	52	71	76	75	76	79	74	75	65	51	51	.....	.....	229.4	67
November	.....	.....	56	43	47	54	61	65	60	56	44	40	35	.....	.....	.....	149.9	51
December	.....	.....	.....	21	27	38	41	48	53	50	37	20	20	.....	.....	.....	105.1	37
Sum	240	332	427	616	751	846	884	923	949	932	885	771	662	540	310	163	2,874.4	.....
Percentage of possible.	48	42	43	51	63	70	74	77	79	78	74	64	55	54	44	41	.....	63

DODGE CITY, KANS. (P.).

[N. lat. 37° 45′.]

January	.....	.....	.....	37	49	52	48	44	60	69	64	49	41	30	.....	.....	157.6	51
February	.....	.....	31	49	57	56	62	65	56	60	62	64	61	46	.....	.....	175.7	58
March	.....	45	68	76	74	77	80	73	74	78	80	74	65	45	33	.....	266.5	72
April	.....	66	68	70	77	80	75	75	67	66	65	59	63	55	45	.....	265.7	67
May	40	53	65	65	67	76	75	74	76	76	79	75	67	60	56	46	302.4	69
June	44	49	64	62	71	71	74	76	70	75	80	74	71	65	37	24	289.7	65
July	24	39	55	61	70	68	70	68	70	66	69	74	70	62	54	49	284.1	63
August	.....	67	65	69	74	77	82	81	76	77	78	80	79	77	65	71	316.5	75
September	.....	76	78	80	86	88	88	86	83	91	89	85	86	78	69	.....	314.6	84
October	.....	50	69	75	77	77	79	79	83	83	78	80	75	64	.....	.....	268.5	77
November	.....	.....	56	59	68	69	73	72	72	72	67	73	67	.....	.....	.....	209.6	69
December	.....	.....	64	49	56	68	68	70	72	76	75	68	56	.....	.....	.....	197.0	66
Sum	108	445	683	752	826	859	874	863	859	889	886	855	801	582	359	190	3,047.9	.....
Percentage of possible.	36	56	62	63	69	72	73	72	72	74	74	71	67	58	51	48	.....	68

EASTPORT, ME. (P.).

[N. lat. 44° 54′.]

January	.....	.....	.....	40	41	50	48	42	45	47	47	39	37	67	.....	.....	126.0	44
February	.....	.....	57	41	45	53	50	56	45	51	50	49	42	39	.....	.....	140.3	48
March	.....	67	59	54	58	55	58	51	45	49	52	46	45	43	47	.....	189.1	51
April	20	45	43	49	55	57	60	58	56	57	59	58	58	40	44	50	217.6	54
May	13	17	23	34	44	44	49	55	62	67	68	66	61	64	39	25	219.5	48
June	34	38	50	44	46	52	52	54	57	56	54	56	52	46	38	35	224.3	48
July	16	16	26	30	47	53	61	65	65	69	81	73	67	48	33	25	235.5	50
August	26	42	45	56	58	59	63	59	68	62	66	59	54	51	44	38	244.4	56
September	.....	26	31	44	62	71	67	66	73	69	65	66	57	53	41	.....	221.6	59
October	.....	100	39	41	52	58	63	57	58	55	55	49	41	51	.....	.....	176.0	32
November	.....	.....	29	20	29	36	36	38	41	45	45	43	38	.....	.....	.....	107.2	37
December	.....	.....	.....	28	31	35	49	50	56	67	56	54	49	.....	.....	.....	132.9	48
Sum	109	351	402	481	568	623	656	651	671	694	698	658	601	511	286	173	2,234.4	.....
Percentage of possible.	22	44	40	40	47	52	55	54	56	58	58	55	50	51	41	35	.....	50

GALVESTON, TEX. (P.).

[N. lat. 29° 18′.]

Month.	Percentage of sunshine recorded during hours ending (local time)—																Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h p.m.	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	29	32	47	54	57	59	55	57	56	52	40	18	.....	.....	161.5	50
February	.....	.....	44	54	61	58	54	42	45	53	42	38	35	30	.....	.....	99.3	47
March	.....	43	26	36	51	53	58	66	61	67	66	49	45	38	43	.....	192.2	52
April	.....	58	69	79	82	80	87	87	89	85	89	93	89	73	42	.....	314.0	81
May	.....	39	47	53	57	73	73	70	69	67	68	65	59	41	29	.....	247.4	50
June	.....	18	55	65	76	79	85	88	92	89	87	79	72	62	53	50	300.1	72
July	.....	49	78	89	89	95	95	95	91	92	94	92	88	80	57	43	364.0	85
August	.....	48	78	87	90	93	91	86	88	82	83	78	71	61	36	.....	321.4	79
September	.....	27	52	78	81	76	77	75	78	82	85	87	83	74	58	.....	282.7	76
October	.....	25	42	67	74	79	87	84	82	80	78	79	79	58	.....	.....	266.1	75
November	.....	.....	17	27	47	56	59	54	52	58	54	50	42	19	.....	.....	153.6	48
December	.....	.....	47	43	54	55	60	56	62	66	61	59	49	40	.....	.....	179.5	56
Sum	.....	307	584	710	809	851	883	862	864	878	863	821	752	594	318	93	2,881.8	.....
Percentage of possible.	.....	38	49	59	67	71	74	72	72	73	72	68	63	50	45	46	.....	65

HELENA, MONT. (P.).

[N. lat. 46° 34′.]

January	.....	.....	.....	12	14	34	41	36	33	41	45	30	21	0	.....	.....	90.9	32
February	.....	.....	24	33	39	47	56	64	74	66	60	59	64	77	.....	.....	165.1	57
March	.....	38	49	57	65	73	73	70	69	69	60	59	53	43	35	.....	227.7	61
April	22	62	62	68	71	71	72	69	68	72	71	65	68	62	59	7	273.9	67
May	50	58	66	67	65	70	70	62	61	64	66	59	53	43	40	36	276.0	59
June	37	44	61	60	67	73	75	69	66	66	59	68	61	53	42	31	277.2	59
July	56	57	64	66	76	80	80	78	85	82	74	70	62	63	55	50	330.7	69
August	80	73	75	82	85	83	84	81	82	83	82	82	83	81	82	86	357.0	81
September	.....	49	48	51	59	61	63	58	57	61	57	60	59	59	59	.....	216.0	57
October	.....	.....	54	63	66	79	78	79	89	91	87	82	72	79	.....	.....	260.5	77
November	.....	.....	10	17	23	38	43	47	48	53	42	30	37	.....	.....	.....	107.2	38
December	.....	.....	.....	27	29	29	33	39	44	40	36	21	20	.....	.....	.....	89.7	34
Sum	245	381	513	603	659	738	768	752	776	788	739	685	653	560	372	210	2,671.9	.....
Percentage of possible.	49	54	51	50	55	62	64	63	65	66	62	57	54	56	53	42	.....	58

KANSAS CITY, MO. (P.).

[N. lat. 39° 05′.]

January	.....	.....	.....	62	52	55	62	60	64	61	47	46	58	73	.....	.....	173.2	57
February	.....	.....	45	49	57	55	60	52	55	51	51	36	29	27	.....	.....	145.6	48
March	.....	42	60	69	75	75	72	71	68	67	62	59	52	47	48	.....	239.9	65
April	.....	47	51	64	68	70	72	70	63	66	60	57	55	34	48	.....	236.4	60
May	58	58	57	67	74	75	77	70	77	79	78	79	67	58	38	43	301.2	68
June[1]	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July	42	42	45	49	54	54	55	58	63	60	59	62	60	51	47	60	243.7	54
August	.....	52	53	59	64	70	70	69	71	71	74	76	72	58	57	82	278.6	66
September	.....	61	65	62	81	90	90	86	87	86	85	85	74	63	35	.....	293.0	76
October	.....	75	69	75	76	79	78	82	82	81	78	73	67	71	.....	.....	263.6	76
November	.....	.....	45	40	43	51	55	48	48	49	49	30	38	.....	.....	.....	136.5	45
December	.....	.....	.....	39	40	44	49	47	52	51	48	36	35	.....	.....	.....	131.4	45
Sum	100	377	490	635	684	718	740	713	730	722	691	639	607	482	273	185	[2] 2,443.1	.....
Percentage of possible.	50	54	56	58	62	65	67	65	66	66	63	58	55	54	46	62	.....	60

[1] No record. [2] For 11 months.

LITTLE ROCK, ARK. (T.).

[N. lat. 34° 45′.]

January	.....	.....	.....	33	34	39	38	41	43	40	41	34	29	35	.....	.....	117.1	37
February	.....	.....	32	32	46	60	63	76	74	64	56	46	39	37	.....	.....	164.9	54
March	.....	50	39	39	43	49	58	58	58	61	58	55	48	52	57	.....	192.2	52
April	.....	57	53	57	72	70	68	70	75	73	64	58	44	36	37	.....	237.0	60
May	24	39	39	43	57	67	74	82	81	79	67	57	55	52	53	67	261.3	60
June	50	50	50	55	65	73	86	90	87	81	74	72	57	42	40	34	282.2	65
July	25	39	39	53	65	69	71	70	78	75	65	57	52	44	39	35	255.2	58
August	.....	74	78	81	85	83	91	88	88	79	79	75	68	60	48	0	322.4	77
September	.....	58	67	68	76	78	86	88	87	92	84	78	78	80	83	.....	296.2	80
October	.....	67	69	67	74	80	81	84	81	78	79	70	62	65	.....	.....	261.4	75
November	.....	.....	48	43	47	50	60	64	66	59	56	49	48	50	.....	.....	167.2	54
December	.....	.....	42	35	39	46	53	56	57	54	50	52	49	.....	.....	.....	150.6	49
Sum	99	424	556	606	703	764	829	867	875	835	773	703	629	553	357	136	2,707.7	.....
Percentage of possible.	33	54	51	50	59	64	69	72	73	70	64	59	52	50	51	34	.....	60

LOUISVILLE, KY. (T.).

[N. lat. 38° 15′.]

Month.	Percentage of sunshine recorded during hours ending (local time)—																Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	.....	32	38	38	40	45	45	43	40	46	48	58	.....	.....	128.1	42
February	.....	.....	44	43	45	55	62	66	61	56	59	56	61	66	.....	.....	171.9	57
March	.....	75	51	50	54	58	66	69	69	61	58	54	49	46	65	.....	212.8	57
April	.....	59	53	53	58	65	69	75	70	65	62	56	55	50	54	.....	240.2	61
May	56	55	55	55	57	68	65	75	76	74	72	73	61	53	56	63	282.0	64
June	68	67	67	69	79	86	88	86	81	86	88	81	73	66	48	46	332.9	75
July	42	39	48	53	62	77	80	84	80	68	71	74	67	43	26	22	274.8	61
August	.....	57	54	55	75	90	89	90	91	93	92	76	72	53	45	33	313.6	74
September	.....	69	71	67	77	79	83	83	82	83	85	80	69	71	72	.....	288.4	77
October	.....	87	86	84	83	81	80	85	80	76	69	68	70	72	.....	.....	270.7	78
November	.....	.....	33	27	30	26	42	40	36	36	37	37	34	.....	.....	.....	104.5	34
December	.....	.....	.....	20	23	27	32	27	32	25	25	24	26	.....	.....	.....	77.2	26
Sum	166	508	562	608	681	750	796	825	803	766	758	725	685	578	366	164	2,697.1	.....
Percentage of possible.	55	64	56	51	57	62	66	69	67	64	63	60	57	58	52	41	.....	59

MARQUETTE, MICH. (T.).

[N. lat. 46° 34′.]

January	.....	.....	.....	7	16	38	16	73	82	73	55	42	22	0	.....	.....	142.4	51
February	.....	.....	24	20	54	73	85	86	91	85	75	61	43	31	.....	.....	191.7	67
March	.....	2	37	54	79	[2]100	[2]100	[2]100	98	97	99	93	78	54	22	.....	304.3	82
April	0	13	48	55	64	76	78	80	84	87	88	85	77	56	27	0	273.2	67
May	10	33	55	62	74	78	78	82	85	84	78	74	66	49	26	13	289.8	62
June	7	46	60	68	82	88	89	92	95	88	75	66	54	49	35	6	299.3	63
July	4	27	55	72	88	94	95	98	92	89	88	83	79	73	46	6	336.6	70
August	17	19	40	62	76	81	83	83	82	79	82	75	80	56	39	14	290.9	66
September	.....	11	25	46	58	62	76	80	82	80	70	62	59	41	7	.....	223.7	59
October	.....	.....	6	22	36	42	41	37	32	39	36	29	16	4	.....	.....	104.1	31
November [1]	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
December [1]	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sum	38	151	350	468	627	732	741	811	823	801	746	670	574	413	202	39	.....	.....
Percentage of possible.	8	22	39	47	63	73	74	81	82	80	75	67	57	41	29	8	.....	.....

[1] No record.

[2] It is believed the recorder was not properly adjusted.

NEW ORLEANS, LA. (T.).

[N. lat. 29° 58′.]

January	.....	.....	8	10	27	48	52	54	51	47	45	45	35	32	.....	.....	138.6	43
February	.....	.....	12	12	26	41	53	60	64	53	53	47	32	11	.....	.....	126.8	41
March	.....	43	21	30	43	54	61	68	75	75	72	59	49	36	33	.....	200.6	54
April	.....	42	47	66	69	71	69	67	76	76	75	66	65	52	50	.....	251.6	65
May	.....	49	53	56	61	64	58	58	67	60	57	58	51	40	31	.....	233.5	55
June	43	49	53	62	70	71	63	44	64	55	56	45	31	23	18	14	211.0	50
July	.....	53	66	81	82	81	73	64	61	60	60	66	56	45	26	8	268.1	62
August	.....	22	40	67	75	78	75	70	74	76	79	72	43	29	9	.....	247.1	60
September	.....	51	69	93	96	96	95	90	87	90	86	81	74	53	23	.....	307.5	83
October	.....	57	53	67	83	88	89	89	89	87	85	84	71	71	.....	.....	284.0	80
November	.....	.....	28	38	57	69	67	70	73	66	66	47	33	30	.....	.....	181.7	57
December	.....	.....	38	34	56	65	70	70	84	77	66	58	44	43	.....	.....	195.1	61
Sum	43	366	488	616	745	826	825	804	865	822	800	728	584	465	190	22	2,645.6	.....
Percentage of possible.	43	46	41	51	62	69	69	67	72	68	67	61	49	39	27	11	.....	59

NEW YORK, N. Y. (T.).

[N. lat. 40° 43′.]

January	.....	.....	.....	32	50	60	71	77	80	80	81	70	47	47	.....	.....	198.0	66
February	.....	.....	50	50	66	82	90	94	95	92	90	88	70	43	.....	.....	236.8	79
March	.....	58	33	44	64	72	77	81	82	81	72	59	45	30	39	.....	228.9	62
April	.....	30	36	47	54	58	63	63	64	66	60	44	44	28	18	.....	197.3	49
May	31	23	32	47	59	63	72	75	75	83	76	75	55	30	17	28	247.4	55
June	23	30	38	48	59	71	76	86	83	77	74	62	54	42	21	12	251.9	56
July	16	23	29	47	63	70	77	86	87	85	82	75	61	42	32	23	271.4	59
August	5	26	34	53	81	91	92	89	90	90	82	75	64	48	28	21	290.0	68
September	.....	25	22	49	73	83	87	93	90	89	89	83	71	45	36	.....	269.2	72
October	.....	100	53	60	68	72	78	77	79	77	78	73	57	54	.....	.....	241.4	70
November	.....	.....	20	23	40	49	54	60	62	62	58	51	31	.....	.....	.....	146.3	49
December	.....	.....	.....	20	32	38	45	52	54	49	36	29	20	.....	.....	.....	112.3	39
Sum	75	315	357	520	709	809	882	923	941	931	878	784	619	409	191	84	2,690.9	.....
Percentage of possible.	19	39	36	43	59	67	74	78	78	78	73	65	52	41	27	21	.....	60

PHILADELPHIA, PA. (T.).

[N. lat. 39° 57′.]

Month.	Percentage of sunshine recorded during hours ending (local time)—																Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	.....	33	44	55	59	64	67	65	50	52	42	29	.....	.....	161.4	54
February	.....	.....	41	48	59	60	76	76	78	77	71	62	58	54	.....	.....	196.7	66
March	.....	75	50	51	52	59	58	67	66	62	59	61	56	45	50	.....	213.2	57
April	.....	48	52	53	58	61	69	70	71	70	66	54	46	43	40	.....	229.8	58
May	40	35	40	43	52	62	72	73	76	78	74	72	69	60	53	35	270.9	61
June	37	37	48	58	69	78	76	80	84	86	84	78	67	66	59	47	303.4	68
July	38	52	61	66	77	80	82	85	90	90	89	88	70	70	54	26	333.2	73
August	100	68	66	67	83	95	94	94	96	97	94	89	80	72	69	67	354.9	83
September	.....	47	59	64	69	87	93	94	95	95	91	89	77	68	72	.....	302.2	81
October	.....	100	63	69	70	77	82	82	82	80	79	75	73	77	.....	.....	262.0	76
November	.....	.....	30	39	40	46	56	58	60	61	58	52	52	.....	.....	.....	154.8	52
December	.....	.....	.....	37	45	58	65	65	68	67	55	55	35	.....	.....	.....	163.4	56
Sum	215	462	510	628	718	818	882	908	933	928	870	827	725	584	397	175	2,945.9	.....
Percentage of possible.	54	58	51	52	60	68	74	76	78	77	72	69	60	58	57	44	.....	65

PHŒNIX, ARIZ. (P.).

[N. lat. 33° 28′.]

January	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
February	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
March	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
April	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
August[1]	.....	75	76	83	86	88	88	92	95	96	97	93	85	66	50	.....	294.3	85
September	.....	93	82	67	92	91	91	91	95	94	93	93	93	89	100	.....	331.9	89
October	.....	100	84	85	88	87	89	91	94	91	93	91	80	68	.....	.....	307.5	88
November	.....	.....	65	74	84	87	93	90	80	83	79	79	74	71	.....	.....	255.2	81
December	.....	.....	86	79	85	91	90	91	90	90	93	93	83	100	.....	.....	274.6	88
Sum	.....	268	393	388	435	444	451	455	454	454	455	449	415	394	159	.....	.....	.....
Percentage of possible.	.....	89	79	78	87	89	90	91	91	91	91	90	83	79	80	.....	.....	.....

[1] All values for 26 days only, in August.

PORTLAND, ME. (T.).

[N. lat. 43° 39′.]

January	.....	.....	.....	19	43	57	61	64	66	62	60	51	22	14	.....	.....	153.0	53
February	.....	.....	4	22	59	70	79	83	78	76	77	68	52	35	.....	.....	190.2	64
March	.....	62	44	55	66	71	81	88	86	83	74	67	60	41	33	.....	251.9	68
April	0	23	48	50	64	72	73	78	77	75	74	70	58	45	22	.....	245.3	61
May	5	32	55	66	74	84	89	96	92	89	91	79	69	57	19	0	308.9	68
June	23	42	52	55	64	72	81	82	78	80	84	79	71	63	36	1	286.7	62
July	10	34	57	79	95	95	99	97	92	96	93	83	80	74	40	0	346.8	74
August	15	45	61	80	84	88	89	93	86	90	92	91	89	77	44	16	341.5	79
September	.....	8	33	64	68	77	87	89	89	86	83	72	68	38	17	.....	258.0	69
October	.....	0	5	33	56	73	76	69	68	61	55	51	23	7	.....	.....	176.8	52
November	.....	.....	0	10	40	54	58	61	60	60	56	52	28	.....	.....	.....	140.4	48
December	.....	.....	.....	14	44	62	75	79	84	77	60	46	17	.....	.....	.....	167.9	60
Sum	53	246	359	547	757	875	948	979	956	935	899	809	637	451	211	17	2,867.4	.....
Percentage of possible.	11	31	36	46	63	73	79	82	80	78	75	67	53	45	30	4	.....	63

PORTLAND, OREG. (T.).

[N. lat. 45° 32′.]

January	.....	.....	.....	4	5	15	28	37	37	35	29	16	13	0	.....	.....	66.7	23
February	.....	.....	5	6	10	26	40	49	52	53	52	46	42	38	.....	.....	110.4	38
March	.....	0	9	21	32	54	60	62	66	64	66	55	49	42	24	.....	178.3	48
April	33	34	29	47	66	78	77	73	69	74	69	55	44	35	38	0	230.7	57
May	21	19	25	32	36	45	57	70	70	63	55	49	46	36	35	34	205.4	44
June	50	46	47	54	59	69	84	84	86	76	85	81	73	67	72	73	325.0	69
July	39	46	45	52	64	69	75	82	83	85	83	84	79	52	65	64	320.0	68
August	100	86	82	79	81	88	94	96	99	97	97	97	97	100	100	100	403.7	92
September	.....	14	23	20	31	45	55	64	65	58	60	45	35	40	22	.....	165.5	44
October	.....	0	43	41	42	47	63	78	81	83	72	55	74	69	.....	.....	211.0	62
November	.....	.....	37	18	17	18	30	40	38	42	33	25	25	.....	.....	.....	82.4	29
December	.....	.....	.....	8	11	12	16	24	19	15	12	4	3	.....	.....	.....	36.2	13
Sum	243	245	345	382	454	566	679	759	765	745	713	612	580	479	356	271	2,335.3	.....
Percentage of possible.	49	31	34	32	38	47	57	63	64	62	59	51	48	48	51	54	.....	49

PORTLAND, OREG. (P.).

[N. lat. 45° 32′.]

Month.	Percentage of sunshine recorded during hours ending (local time)—																Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	.....	4	4	15	21	24	16	18	13	7	6	0	.....	.....	38.5	13
February	.....	.....	5	6	10	26	25	20	27	33	40	36	34	35	.....	.....	76.8	26
March	.....	0	10	21	29	56	56	46	53	57	62	58	52	44	24	.....	168.9	46
April	33	34	32	55	67	72	73	64	64	70	66	55	52	44	38	0	230.8	57
May	21	20	29	34	38	44	54	57	57	57	57	53	50	47	39	34	204.4	44
June	50	53	60	60	69	72	81	83	78	77	83	86	79	78	75	75	340.9	73
July	39	46	58	65	68	71	76	80	84	84	80	86	85	71	65	65	337.2	71
August	100	86	82	80	82	89	94	96	100	97	97	97	97	100	100	100	104.3	93
September	.....	14	27	21	26	51	59	63	65	61	65	54	54	44	22	.....	179.0	43
October	.....	0	43	41	40	52	61	76	82	86	83	81	76	69	.....	.....	223.4	66
November	.....	.....	37	18	18	23	28	36	36	44	44	33	27	.....	.....	.....	89.3	31
December	.....	.....	.....	8	11	11	14	20	19	15	16	5	3	.....	.....	.....	35.9	13
Sum	243	253	383	413	462	582	642	665	681	699	706	651	615	532	363	274	2,029.4	.....
Percentage of possible.	49	32	38	34	38	48	54	55	57	58	59	54	51	53	52	55	.....	48

ROCHESTER, N. Y. (T.).

[N. lat. 43° 08′.]

January	.....	.....	.....	7	7	25	29	42	45	47	43	32	31	78	.....	.....	93.6	32
February	.....	.....	19	18	22	39	52	71	77	71	53	44	30	32	.....	.....	138.8	47
March	.....	50	45	44	57	61	65	65	70	68	65	56	46	42	52	.....	211.9	57
April	100	51	43	48	61	63	67	80	76	77	71	64	55	50	43	.....	246.9	61
May	53	53	63	75	86	87	87	86	81	76	74	81	68	67	43	42	328.3	72
June	50	56	65	76	79	88	88	85	84	86	85	82	82	74	62	48	347.2	76
July	43	39	49	66	75	78	86	83	87	78	86	80	70	58	37	33	313.4	67
August	40	59	61	68	73	76	81	88	85	85	76	73	74	61	43	45	309.8	72
September	.....	48	49	61	68	64	69	69	75	82	82	77	61	53	57	.....	250.9	67
October	.....	100	45	51	64	65	67	73	73	72	57	53	44	59	.....	.....	206.9	60
November	.....	.....	39	32	41	49	59	59	55	50	47	31	23	.....	.....	.....	132.5	45
December	.....	.....	.....	10	24	45	45	56	67	60	45	28	28	.....	.....	.....	120.7	43
Sum	286	456	478	556	657	740	795	857	875	852	784	701	612	574	337	168	2,700.9	.....
Percentage of possible.	57	57	48	46	55	62	66	71	73	71	65	58	51	57	48	42	.....	58

ST. LOUIS, MO. (T.).

[N. lat. 38° 38′.]

January	.....	.....	.....	36	39	56	63	65	74	70	70	67	67	82	.....	.....	187.7	62
February	.....	.....	34	40	55	82	87	91	93	88	82	74	64	58	.....	.....	222.8	74
March	.....	42	46	53	62	72	77	77	79	80	76	74	70	62	50	.....	256.7	69
April	.....	53	50	59	64	73	87	88	84	83	81	82	75	58	40	.....	282.8	71
May	62	58	66	79	85	90	90	92	93	95	90	88	82	67	55	61	356.1	80
June	50	50	56	62	65	76	85	89	86	81	84	81	79	67	63	49	319.5	72
July	23	33	41	51	64	74	81	85	83	87	75	74	58	45	31	19	276.5	61
August	.....	59	56	65	80	82	85	87	94	89	86	82	81	62	43	50	319.5	76
September	.....	52	57	61	73	84	93	95	90	92	93	93	84	81	69	.....	306.2	82
October	.....	75	59	64	79	83	91	87	86	86	83	74	74	72	.....	.....	273.1	79
November	.....	.....	31	29	49	53	58	59	57	59	62	50	32	.....	.....	.....	153.9	51
December	.....	.....	.....	27	27	45	58	64	57	56	54	49	40	.....	.....	.....	142.8	48
Sum	135	422	496	626	742	870	955	979	976	966	936	888	806	654	351	179	3,097.6	.....
Percentage of possible.	45	53	50	52	62	72	80	82	81	80	78	74	67	65	50	45	.....	69

SALT LAKE CITY, UTAH (P.).

[N. lat. 40° 46′.]

January[1]	.....	.....	.....	13	14	35	55	68	58	62	49	35	26	5	.....	.....	126.3	43
February	.....	.....	25	39	58	59	60	53	46	50	51	50	45	43	.....	.....	150.4	50
March	.....	25	52	65	69	70	76	69	63	70	64	58	48	40	15	.....	227.7	61
April	.....	64	74	81	86	94	92	84	84	77	76	69	64	56	41	.....	301.0	75
May	51	50	59	65	67	68	81	78	71	72	78	76	69	67	49	38	301.4	67
June	57	62	67	84	92	91	94	90	89	86	85	87	77	66	70	61	360.0	80
July	61	65	68	74	75	73	81	82	84	82	89	79	82	72	67	64	347.9	76
August	100	67	80	95	97	96	100	95	85	87	87	96	85	78	78	89	375.0	88
September	.....	68	74	78	74	74	74	72	79	74	80	75	77	71	68	.....	279.9	75
October	.....	80	57	61	83	83	85	84	78	82	82	79	74	61	.....	.....	255.4	77
November	.....	.....	37	37	38	63	57	48	49	56	52	51	46	.....	.....	.....	147.8	50
December	.....	.....	.....	3	13	28	35	36	43	43	39	26	23	.....	.....	.....	86.9	30
Sum	269	481	593	695	766	834	890	859	829	841	832	781	716	559	388	252	2,969.7	.....
Percentage of possible.	67	60	59	58	64	70	74	72	69	70	69	65	60	56	55	63	.....	64

[1] "T." instrument used in January; all others, "P."

SAN DIEGO, CAL. (P.).

[N. lat. 32° 43′.]

Month.	Percentage of sunshine recorded during hours ending (local time)—																Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	40	52	61	74	72	68	68	68	73	67	57	53	.....	.....	210.3	66
February	.....	.....	43	43	58	61	69	76	82	84	84	81	58	50	.....	.....	208.8	68
March	.....	67	23	35	46	58	70	75	73	79	74	70	57	48	48	.....	221.0	59
April	.....	23	31	37	43	55	62	70	76	77	77	69	65	54	41	.....	224.3	57
May	0	8	20	24	35	49	63	69	71	72	73	75	64	55	17	30	214.8	50
June	12	10	11	26	38	57	72	81	88	87	82	86	79	66	50	52	252.2	59
July	17	3	11	30	51	73	78	91	97	97	95	94	90	75	55	54	293.9	67
August	.....	6	8	26	43	71	83	93	94	94	95	92	87	74	41	.....	276.9	67
September	.....	15	21	33	60	86	90	93	98	100	95	90	88	89	91	.....	286.9	77
October	.....	25	17	28	37	50	75	81	80	86	86	86	77	67	.....	.....	227.0	65
November	.....	.....	67	70	77	84	87	84	83	80	83	77	57	22	.....	.....	244.5	78
December	.....	.....	64	78	87	91	95	98	97	97	89	83	64	50	.....	.....	272.8	88
Sum	29	157	356	482	636	809	916	979	1,007	1,021	1,006	970	843	703	343	136	2,933.4	.....
Percentage of possible.	10	20	30	40	53	67	76	82	84	85	84	81	70	59	49	45	.....	67

SAN FRANCISCO, CAL. (T.).

[N. lat. 37° 48′.]

January	.....	.....	.....	26	56	65	75	71	76	75	72	55	36	43	.....	.....	188.2	61
February	.....	.....	0	25	51	67	80	86	92	91	86	81	66	30	.....	.....	208.6	69
March	.....	0	17	38	53	75	79	87	91	91	90	83	72	42	0	.....	252.5	68
April	.....	33	46	66	81	90	92	95	96	91	91	89	80	69	45	.....	309.6	78
May	7	28	59	63	75	86	92	93	96	96	93	90	85	64	36	0	326.8	74
June	0	16	56	63	75	88	92	97	98	99	98	98	86	54	18	6	311.5	70
July	0	0	7	29	35	57	72	83	93	91	87	81	60	22	0	0	222.8	49
August	.....	0	2	14	32	50	77	90	95	95	97	94	72	19	0	0	229.0	54
September	.....	7	15	42	55	67	72	78	85	87	86	71	65	52	28	.....	233.4	63
October	.....	0	1	25	39	59	70	79	93	96	93	92	62	32	.....	.....	222.7	64
November	.....	.....	.....	24	52	73	79	81	90	86	83	67	42	.....	.....	.....	200.8	66
December	.....	.....	.....	6	36	55	73	84	78	71	74	61	22	.....	.....	.....	171.5	58
Sum	7	84	203	421	640	832	953	1,024	1,083	1,069	1,050	962	748	427	127	6	2,877.4	.....
Percentage of possible.	2	10	23	35	53	69	79	85	90	89	88	80	62	43	18	2	.....	64

SANTA FE, N. MEX. (P.).

[N. lat. 35° 41′.]

January	.....	.....	.....	49	63	72	72	71	75	66	70	64	62	56	.....	.....	237.1	66
February	.....	.....	53	67	74	81	80	82	78	80	74	73	66	55	.....	.....	225.1	74
March	.....	40	61	74	81	86	88	86	82	77	71	76	65	58	48	.....	279.7	75
April	.....	78	81	87	87	87	89	86	83	82	81	73	72	65	59	.....	314.9	80
May	39	43	69	75	72	77	75	75	73	68	66	66	54	45	33	27	276.4	63
June	78	76	81	81	89	91	93	92	82	74	58	69	45	34	40	43	312.3	71
July	83	61	65	73	75	78	87	84	80	76	61	62	57	49	47	44	301.3	68
August	.....	64	74	84	85	93	96	88	89	84	78	65	61	41	14	0	307.2	74
September	.....	81	82	87	82	84	89	91	90	89	88	87	86	75	82	.....	319.0	86
October	.....	0	63	77	84	86	83	82	87	86	83	80	72	66	.....	.....	279.4	80
November	.....	.....	71	64	72	71	70	64	72	74	74	75	64	33	.....	.....	216.7	70
December	.....	.....	86	79	82	82	85	87	89	83	84	78	67	.....	.....	.....	248.7	82
Sum	200	443	786	897	946	988	1,007	988	980	939	888	868	771	577	323	114	3,287.8	.....
Percentage of possible.	67	55	71	75	79	82	84	82	82	78	74	72	64	52	46	28	.....	74

SAVANNAH, GA. (P.)

[N. lat. 32° 05′.]

January	.....	.....	25	39	44	54	51	54	52	54	54	52	39	39	.....	.....	156.5	49
February	.....	.....	40	39	52	60	60	60	61	60	61	59	49	51	.....	.....	171.3	55
March	.....	22	41	52	53	59	62	64	69	66	62	63	59	41	48	.....	214.3	58
April	.....	42	50	61	61	65	70	66	59	64	59	62	64	50	47	.....	232.7	60
May	20	32	45	48	68	66	70	67	73	77	72	57	59	49	33	.....	251.5	59
June	60	60	79	83	82	77	79	79	70	74	71	75	75	51	35	32	299.5	70
July	50	63	70	87	84	78	75	68	69	68	61	56	46	34	16	21	270.8	62
August	.....	48	63	73	75	77	71	70	69	68	62	49	45	27	7	.....	242.8	56
September	.....	60	67	82	81	76	79	73	80	78	77	75	76	63	42	.....	277.9	75
October	.....	75	59	70	83	83	82	80	78	83	80	73	68	61	.....	.....	267.2	76
November	.....	.....	38	44	53	56	56	58	57	57	54	53	36	15	.....	.....	163.1	52
December	.....	.....	42	46	67	75	75	64	66	67	65	58	55	50	.....	.....	198.8	63
Sum	130	402	619	724	803	826	830	803	803	816	778	732	671	531	228	53	2,746.4	.....
Percentage of possible.	43	50	52	60	67	69	69	67	67	68	65	61	56	44	33	26	.....	61

VICKSBURG, MISS. (T.).

[N. lat. 32° 22′.]

Month.	Percentage of sunshine recorded during hours ending (local time)—																Total (hours).	Percentage of possible.
	5h a. m.	6h	7h	8h	9h	10h	11h	Noon.	1h p. m.	2h	3h	4h	5h	6h	7h	8h		
January	.....	.....	25	16	20	29	30	39	43	52	53	51	52	53	.....	.....	124.3	39
February	.....	.....	26	25	40	48	52	54	55	54	52	48	34	28	.....	.....	137.8	45
March	.....	56	36	49	53	65	70	71	71	77	79	72	66	54	40	.....	234.1	63
April	.....	65	62	65	81	90	88	87	90	91	88	86	84	73	68	.....	315.0	81
May	33	39	38	48	58	66	75	75	80	87	83	72	66	49	35	0	268.1	62
June	29	30	35	49	59	73	79	85	77	71	66	66	57	46	35	29	250.3	59
July	67	46	46	71	83	86	86	85	91	86	78	76	70	55	39	43	310.4	71
August	.....	42	45	54	68	75	79	85	90	89	75	67	61	47	37	.....	274.6	66
September	.....	81	83	87	96	97	97	99	96	97	96	87	79	68	58	.....	332.9	90
October	.....	50	61	64	80	86	87	87	87	88	85	83	78	78	.....	.....	283.1	80
November	.....	.....	41	42	53	62	67	65	64	66	69	60	53	55	.....	.....	186.6	59
December	.....	.....	58	41	46	56	64	65	67	66	68	51	47	67	.....	.....	178.9	57
Sum	129	409	556	602	737	833	874	897	911	924	892	819	747	673	312	72	2,896.1	.....
Percentage of possible.	43	51	46	50	61	69	73	75	76	77	74	68	62	56	45	24	.....	64

WASHINGTON, D. C. (P.).

[N. lat. 38° 54′.]

January	.....	.....	.....	28	39	44	48	38	30	33	41	44	42	47	.....	.....	118.4	39
February	.....	.....	60	55	60	70	75	75	78	76	74	58	59	60	.....	.....	203.1	68
March	.....	33	33	36	52	67	71	69	71	70	73	68	54	47	52	.....	220.4	59
April	.....	36	39	52	61	64	58	56	58	54	61	54	45	38	29	.....	204.4	52
May	46	35	41	50	50	58	75	79	82	82	79	73	66	54	42	49	273.1	62
June	47	47	53	73	85	96	100	100	97	97	94	87	78	70	65	62	356.4	80
July	43	45	53	70	75	83	92	93	91	90	79	75	64	55	42	41	320.0	71
August	.....	68	75	81	82	86	87	86	85	82	80	74	79	65	58	64	330.6	78
September	.....	43	51	64	78	83	88	82	87	92	83	88	79	64	69	.....	288.2	77
October	.....	100	58	59	79	82	81	81	88	91	87	85	78	80	.....	.....	274.7	79
November	.....	.....	30	27	36	44	48	45	51	57	58	55	45	.....	.....	.....	139.1	46
December	.....	.....	.....	29	44	47	50	51	45	50	52	37	29	.....	.....	.....	129.9	44
Sum	136	407	493	624	741	824	873	855	863	874	861	798	718	580	357	216	2,858.3	.....
Percentage of possible.	45	51	49	52	62	69	73	71	72	73	72	66	60	58	51	54	.....	63

WILMINGTON, N. C. (T.).

[N. lat. 34° 14′.]

January	.....	.....	.....	32	48	54	61	61	61	59	49	49	38	29	.....	.....	160.0	51
February	.....	.....	31	34	49	56	59	71	64	62	60	60	55	46	.....	.....	171.0	56
March	.....	40	35	42	54	58	65	66	64	60	56	53	45	32	24	.....	195.7	53
April	.....	34	37	44	54	54	55	51	55	50	46	38	35	16	12	.....	167.7	43
May	9	13	27	45	52	60	64	67	58	53	56	52	39	29	6	0	192.8	45
June	24	26	33	67	79	81	83	78	54	86	78	64	46	29	10	10	255.4	59
July	25	41	46	58	68	77	83	82	77	72	65	61	56	46	23	19	265.9	60
August	.....	40	47	68	67	71	77	67	64	57	48	57	52	36	24	.....	234.2	56
September	.....	31	46	72	80	86	86	89	90	91	80	76	62	38	26	.....	273.7	74
October	.....	33	32	59	74	82	84	84	84	85	86	78	64	42	.....	.....	256.0	73
November	.....	.....	5	30	48	53	60	60	65	62	59	53	34	0	.....	.....	156.8	50
December	.....	.....	31	30	61	70	72	68	72	68	62	60	38	0	.....	.....	185.5	60
Sum	58	258	[illegible]	581	734	802	849	844	838	805	745	701	564	343	125	29	2,514.7	.....
Percentage of possible.	19	32	[illegible]	48	61	67	71	70	70	67	62	58	47	29	18	10	.....	57

SEVERE LOCAL STORMS, 1895.

Under the above general heading there have been given in previous reports the number of violent local storms reported in the newspapers or by Weather Bureau observers. It has been the endeavor to include storms of local rather than general character, and especially to distinguish tornadoes from severe local winds. The dangerous winds that sometimes accompany a storm of wide extent are not included in the statistics here given, although the damage done in a single storm may be equal to that of many local storms combined. In former volumes the total number of severe local storms reported in the daily press and by individuals has been given and the storms have been arranged according to a scale of property loss. It is found upon investigation that about 70 per cent of the reports belong to a class of severe thunderstorms in which the wind sometimes attains considerable violence, although without rotary motion or other evidence of tornadic action.

Table I gives the number of severe local storms, properly so called, that occurred in each month of the period 1890–1895, not the total number reported as heretofore.

Loss of life by severe local storms and also by lightning is given for the period above named in Tables II and III.

TABLE I.—VIOLENT STORMS, 1890–1895.

Year.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
1890	5	14	35	8	19	21	17	11	1	2	0	0	133
1891	3	7	2	4	4	15	7	7	0	1	12	7	69
1892	7	0	26	22	12	43	26	2	3	0	7	6	154
1893	1	3	31	75	34	10	15	6	5	0	0	2	182
1894	2	12	8	11	15	39	5	2	24	4	2	10	134
1895	6	0	5	6	25	16	30	7	12	0	0	0	107
Sums	24	36	107	126	109	144	100	35	45	7	21	25	779

TABLE II.—DEATHS BY VIOLENT STORMS, 1890–1895.

1890	0	0	160	6	26	27	29	25	0	0	0	0	273
1891	2	1	10	9	9	35	30	11	1	0	0	0	108
1892	0	0	39	21	91	49	7	17	11	9	21	11	276
1893	0	3	96	174	20	6	83	7	10	0	0	0	399
1894	1	13	32	25	32	34	2	2	76	19	0	0	236
1895	0	0	4	6	59	6	59	17	15	0	0	0	166
Sums	3	17	341	241	237	157	210	79	113	28	21	11	1,458

TABLE III.—DEATHS BY LIGHTNING, 1890–1895.

1890	0	0	2	6	8	37	55	12	0	0	0	0	120
1891	0	0	0	13	23	73	52	34	9	0	0	0	204
1892	0	0	0	5	27	74	67	54	15	6	1	2	251
1893	0	0	5	19	17	66	73	18	8	2	0	1	209
1894	0	2	6	14	45	96	60	78	29	6	0	0	336
1895	0	0	5	29	66	109	123	78	16	0	0	0	426
Sums	0	2	18	86	186	455	430	274	77	14	1	3	1,546

DESCRIPTION OF ALL VIOLENT STORMS OF SCALE 2 MINUS AND ABOVE DURING 1895.

JANUARY 15.—Point Clear, Ala.; hail size of guinea-fowl eggs; loss, $15,000 to $20,000.

MARCH 20 (9 a. m.).—Augusta, Ga.; width about 150 feet; funnel cloud plainly seen; twenty houses completely demolished, but no one killed; most trees and débris carried in storm direction; loss, $15,000.

APRIL 15 (7 p. m.).—Cherokee, Kans.; funnel cloud; thunderstorm accompanied; roar heard; moved northeast; trees and débris thrown in direction of storm; cloud black, with a red glow; loss, $10,000.

APRIL 16 (7 p. m.).—Fairford, Ala.; thunderstorm; roar heard; moved east by south; whirled counter clock wise; débris on north and south sides thrown toward the center, in the center line in all directions; peculiar glow about the cloud; loss in region, $20,000.

APRIL 24 (4.30 p. m.).—Benton, Tex.; funnel cloud seen; no thunderstorm; loud roar; moved toward southeast; whirl to right; whitish color in cloud; loss, mostly from hail, $15,000.

MAY 1 (4.30 p. m.).—Halstead, Kans.; funnel cloud; thunderstorm; roar heard; moved northeast; whirl, counter clock wise; all débris in center carried in direction of storm; peculiar glow in cloud; loss, $40,000 to $50,000.

MAY 1 (4.30 p. m.).—Patterson, Kans.; funnel cloud; no thunderstorm; roar; moved northeast; trees and débris carried toward center or with the storm on either side and in center; peculiar glow in cloud; loss, about $20,000.

MAY 3 (4 p. m.).—Perkins, Iowa; sharp lightning; roar heard; trees and débris scattered in a circle; loss, $10,000 (?).

MAY 3 (4 p. m.).—Sibley, Iowa; thunderstorm; funnel cloud; roar heard; moved northeast; loss, about $20,000.

MAY 3 (3 p. m.).—Sioux Center, Iowa; funnel cloud; thunderstorm; roar heard even to 3 miles; moved northeast; loss, $26,000 to $60,000.

MAY 3 (3 and 4 p. m.).—Tyndall, S. Dak.; funnel cloud; roar heard many miles; moved northeast; trees and débris scattered in every direction; greenish color in cloud; loss, $10,000.

JUNE 17 (3.30 a. m.).—Denison, Iowa; probably a straight wind; heavy thunderstorm; moved southeast; no whirl; loss, $10,000.

JUNE 17 (5.30 p.m.).—Hartford, Kans.; funnel cloud; no thunderstorm; roar heard; light appearance in the cloud; loss, $15,000.

JUNE 25 (8.20 p. m.).—Baird, Tex.; thunderstorm; moved southwest; all débris carried in direction of storm; appearance of white clouds boiling up; loss, $20,000.

JULY 5 (5.15 p. m.).—Baxter Springs, Kans.; heavy thunderstorm; very heavy rain; roar heard; moved south and then east; green clouds; loss, $20,000 to $25,000.

JULY 13 (3.25 p. m.).—Cherry Hill, N. J.; funnel; roar heard; moved southeast; whirl, counter clock wise; loss, $33,000.

JULY 13 (3.40 p. m.).—River Edge, N. J.; funnel cloud; whirl, clock wise; cloud very dark at first, followed by a grayish appearance; loss in region, $75,000 to $100,000.

JULY 13 (4.20 p. m.).—Woodhaven, N. Y.; funnel; roar; moved east; trees and débris carried in track of storm; loss, $40,000.

JULY 17 (9 to 11 p. m.).—Decatur, Mich.; moved east; loss, $10,000 (?).

JULY 19 (1.10 p. m.).—St. Clair, Mich.; no funnel; loss, $12,000.

JULY 20 (7.08 p. m.).—New York City, N. Y.; terrific explosions of thunder; loss, $75,000.

AUGUST 11 (2 p. m.).—Rensselaer, Ind.; funnel cloud; roar heard; moved southeast; whirl, counter clock wise; débris and trees carried toward center of track; loss, $20,000.

AUGUST 31 (5.40 p. m.).—Weehawken, N. J.; storm moved east; loss, $10,000.

SEPTEMBER 8 (3 p. m.).—Gridley, Kans.; heavy thunderstorm; moved northwest; color of cloud, yellow and black; loss in region, $50,000.

SEPTEMBER 17 (midnight).—Port Austin, Mich; regular electric storm; roar heard; moved southeast; trees and débris thrown to southeast; loss in county, $25,000.

TABLES OF EXCESSIVE PRECIPITATION.

Six Weather Bureau stations were equipped with self-recording rain gauges in the spring of 1889, since which time it has been possible to similarly equip 36 additional stations. The instrument in use at a majority of the stations consists of an ordinary standard 8-inch gauge, in the tube of which a float is suspended by a chain that passes over a notched wheel, carrying at its other extremity a weight to counterbalance the float. Whenever one-tenth of an inch of rain falls the wheel turns through a tenth of its circumference, and in so doing operates an electrical recording device in the observer's room below. The capacity of the gauge, 2 inches, is not large enough to prevent overflowing at night when the observers are not on duty, a defect that has been remedied in the form of gauge described on page 9 of this report, and also on pages 34–35, Report of the Chief of the Weather Bureau, 1891–92.

The tables below contain a summary of the records obtained with these gauges from their installation to the end of 1895. In compiling the data, all rainfalls of short duration, where the rate for five minutes fell below 2.40 inches per hour (0.20 in five minutes) were omitted; where the rainfall continued a sufficient time to class it among the rainfalls of 2.50 inches and over in twenty-four hours, the amounts recorded during the smaller time divisions have been given for the sake of completeness. Column 1 shows the date upon which rain fell; columns 2 and 3, the greatest amount in five minutes and the rate per hour; columns 4 and 5, the greatest amount that fell in ten minutes and the rate per hour; columns 6 and 7, the total amount of the storm and its duration, except when it continued for more than an hour. In the latter case, the total amount and duration must be looked for in the last two columns of the table.

A supplemental table has also been prepared showing the accumulated amounts of precipitation during each five minutes of one or more of the most severe storms that have occurred within the last five or six years. It has not been possible to include in the data of this table a record of a greater number of storms.

MAXIMUM AMOUNTS OF EXCESSIVE PRECIPITATION FOR PERIODS OF 5 AND 10 MINUTES, 1 HOUR, AND 24 HOURS OR MORE.

ATLANTA, GA.[1]

Date.	5 minutes.		10 minutes.		1 hour or less.		24 hours or more.	
	Amount.	Rate per hour.	Amount.	Rate per hour.	Amount.	Duration.	Amount.	Duration.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*h. m.*	*Inches.*	*h. m.*
April 24, 1889					1.10	0 12		
June 19, 1889					1.05	0 40		
July 2–3, 1889					1.13	1 00		
July 13, 1889					1.00	0 30		
July 20, 1889							2.22	2 10
July 26, 1889					1.37	1 00		
August 5, 1889					1.10	1 00		
September 23–24, 1889							3.43	[2]
May 25–26, 1890							3.90	24 00
July 24–25, 1890							3.44	24 00
September 21, 1890					1.15	0 37		
June 8, 1891					1.22	0 58		
July 15, 1891					1.54	0 30		
August 18, 1891	0.35	4.20	0.55	3.30	0.55	0 07		
December 3–4, 1891	0.30	3.60	0.37	2.22	0.52	1 00	0.78	9 45
January 12–13, 1892	0.10	1.20	0.16	0.96	0.45	1 00	3.28	24 00
April 6–7, 1892	0.30	3.60	0.55	3.30	0.92	1 00	4.21	[3] 34 00
June 2–3, 1892	0.32	3.84	0.60	3.60	1.07	1 00	2.59	15 20
July 12–13, 1892	0.32	3.84	0.50	3.00	0.70	1 00	1.06	[2]
August 1, 1892	0.45	5.40	0.65	3.90	0.76	0 45	1.21	1 37

[1] Record from self-register began August, 1891. [2] Less than 24 hours; exact time unknown. [3] Estimated.

ATLANTA, GA.—Continued.

Date.	5 minutes.		10 minutes.		1 hour or less.		24 hours or more.	
	Amount.	Rate per hour.	Amount.	Rate per hour.	Amount.	Duration.	Amount.	Duration.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*h. m.*	*Inches.*	*h. m.*
August 24, 1892	0.20	2.40	0.35	2.10	0.92	1 00	.....	.....
August 25, 1892	0.37	4.44	0.52	3.12	1.15	0 53	.....	.....
March 11, 1893	0.25	3.00	0.36	2.16	0.50	1 00	.....	.....
May 29, 1893	0.20	2.40	0.35	2.10	1.17	1 00	1.86	[1]
June 2, 1893	0.20	2.40	0.35	2.10	0.93	1 00	1.06	2 00
July 14, 1893	0.21	2.52	0.35	2.10	0.71	0 35	.....	.....
July 31, 1893	0.25	3.00	0.45	2.70	0.56	1 00	0.58	2 30
August 30, 1893	0.20	2.40	0.35	2.10	0.71	1 00	1.15	3 35
September 10, 1893	0.20	2.40	0.30	1.80	0.48	1 00	0.50	2 15
December 3, 1893	0.27	3.24	0.30	1.80	0.35	1 00	0.48	4 30
February 8, 1894	0.25	3.00	0.35	2.10	0.51	1 00	0.58	5 25
May 18, 1894	0.22	2.64	0.30	1.80	0.45	1 00	0.98	5 15
June 17, 1894	0.30	3.60	0.35	2.10	0.49	1 00	0.62	1 07
July 3, 1894	0.20	2.40	0.28	1.68	0.37	1 00	0.38	1 05
July 18, 1894	0.30	3.60	0.60	3.60	0.68	1 00	0.72	2 30
July 29–30, 1894	0.40	4.80	0.75	4.50	1.80	0 50	2.36	11 45
August 24, 1894	0.22	2.64	0.27	1.62	0.53	1 00	0.59	1 09
August 28, 1894	0.23	2.76	0.31	1.86	0.42	1 00	.....	.....
September 11, 1894	0.23	2.76	0.30	1.80	0.47	0 55	.....	.....
September 17–18, 1894	0.20	2.40	0.39	2.34	1.50	1 00	4.70	14 25
March 20, 1895	0.26	3.12	0.32	1.92	0.63	1 00	0.92	9 25
May 8, 1895	0.35	4.20	0.55	3.30	0.80	1 00	1.38	5 45
May 21, 1895	0.20	2.40	0.23	1.38	0.26	0 30	.....	.....
June 29–30, 1895	0.45	5.40	0.67	4.02	1.05	1 00	2.05	11 00
July 21, 1895	0.21	2.52	0.29	1.74	0.59	1 00	.....	.....
August 3, 1895	0.25	3.00	0.34	2.04	0.64	1 00	0.81	1 55
August 13, 1895	0.20	2.40	0.29	1.74	0.65	1 00	0.88	4 15
August 14, 1895	0.25	3.00	0.30	1.80	0.43	1 00	0.44	1 15
August 15–16, 1895	.....	.....	.....	.....	.....	.....	2.52	12 50
August 17, 1895	0.30	3.60	0.40	2.40	0.76	1 00	1.00	4 25

BISMARCK, N. DAK.[2]

June 1, 1890	0.20	2.40	0.35	2.10	1.05	1 00	1.82	2 00
June 19, 1890	0.40	4.80	0.61	3.66	0.90	1 00	1.47	3 58
June 14, 1891	0.30	3.60	0.55	3.30	0.93	0 30	.....	.....
July 6, 1891	0.28	3.36	0.38	2.28	0.53	1 00	.....	.....
July 11–12, 1891	0.35	4.20	0.45	2.70	0.90	1 00	1.44	5 00
July 31, 1891	0.25	3.00	0.28	1.68	0.29	0 20	.....	.....
August 5, 1891	0.20	2.40	0.35	2.10	0.58	1 00	0.96	4 00
June 10, 1892	0.22	2.64	0.40	2.40	0.91	0 37	.....	.....
August 27, 1892	0.30	3.60	0.56	3.36	1.05	1 00	1.32	2 43
June 29, 1893	0.20	2.40	0.28	1.68	0.58	1 00	0.79	3 00
July 27, 1893	0.24	2.88	0.27	1.62	0.33	0 35	.....	.....
September 6–7, 1894	0.75	9.00	1.00	6.00	2.00	[3] 1 00	3.67	[4]
May 1, 1895	0.25	3.00	0.55	3.30	0.85	1 00	0.95	1 50
July 18, 1895	0.24	2.88	0.35	2.10	0.50	1 00	0.55	[4] 2 00

BOSTON, MASS.

July 4, 1891	0.40	4.80	0.47	2.82	0.54	1 00	0.55	1 35
June 25, 1892	0.30	3.60	0.35	2.10	0.45	1 00	.....	.....
July 3, 1892	0.25	3.00	0.28	1.68	0.42	1 00	0.60	5 15
August 12, 1892	0.50	6.00	0.80	4.80	1.50	1 00	2.29	4 35
May 3–4, 1893	[5]	.....	[5]	.....	[5]	.....	2.81	24 00
August 6, 1893	0.37	4.44	0.70	4.20	1.07	0 52	.....	.....
July 21, 1894	0.35	4.20	0.50	3.00	0.73	0 45	.....	.....
July 25, 1894	0.29	3.48	0.37	2.22	0.39	1 00	0.46	2 02
August 20, 1894	0.56	6.72	0.83	4.98	1.68	1 00	2.10	3 53
July 14, 1895	0.27	3.24	0.33	1.98	0.33	0 15	.....	.....
August 18, 1895	0.29	3.48	0.38	2.28	0.93	1 00	1.24	4 27
October 12–13, 1895	0.10	1.20	0.19	1.14	0.70	1 00	5.70	38 35
November 1, 1895	.....	.....	.....	.....	.....	.....	2.82	11 20

[1] Less than 24 hours; exact time unknown.
[2] Record from self-register began October, 1889.
[3] Estimated.
[4] Less than 12 hours; exact time unknown.
[5] Self-register out of order.

BUFFALO, N. Y.[1]

Date.	5 minutes.		10 minutes.		1 hour or less.		24 hours or more.	
	Amount.	Rate per hour.	Amount.	Rate per hour.	Amount.	Duration.	Amount.	Duration.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*h. m.*	*Inches.*	*h. m.*
April 9, 1890	0.25	3.00	0.35	2.10	0.45	0 35	.....	.....
June 3–4, 1890	0.20	2.40	0.30	1.80	0.65	1 00	2.03	10 46
August 21, 1890	0.20	2.40	0.23	1.38	0.35	1 00	1.01	5 47
August 9, 1891	0.20	2.40	0.30	1.80	0.35	1 00	0.65	2 35
June 5, 1892	0.25	3.00	0.27	1.62	0.35	0 48	.....	.....
June 9, 1892	0.45	5.40	0.75	4.50	1.70	1 00	2.43	3 53
June 22, 1892	0.20	2.40	0.35	2.10	1.44	1 00	1.78	4 25
July 16, 1892	0.20	2.40	0.35	2.10	0.65	1 00	0.79	1 33
August 19, 1892	0.30	3.60	0.40	2.40	0.70	1 00	0.94	2 43
August 28–29, 1893	0.30	3.60	0.40	2.40	0.60	1 00	4.25	21 01
September 7, 1893	0.20	2.40	0.25	1.50	0.35	1 00	0.95	13 00
March 21, 1894	0.21	2.52	0.24	1.44	0.28	1 00	.....	.....
June 27, 1894	0.24	2.88	0.35	2.10	0.82	1 00	0.85	4 00
May 7, 1895	0.20	2.40	0.28	1.68	0.36	1 00	0.56	2 45

CHICAGO, ILL.[2]

July 18–19, 1889	0.45	5.40	0.80	4.80	1.60	1 00	1.65	2 30
July 27, 1889	0.30	3.60	0.40	2.40	1.43	1 00	4.02	3 34
May 9–10, 1890	.....	.....	.....	.....	.....	.....	2.60	(3)
July 14, 1890	0.40	4.80	0.56	3.36	1.00	0 34	1.04	1 05
June 28, 1891	0.20	2.40	0.25	1.50	0.34	0 43	.....	.....
July 6–7, 1891	0.17	2.04	0.32	1.92	1.20	1 00	1.34	2 40
August 20, 1891	0.25	3.00	0.30	1.80	0.40	0 40	.....	.....
May 31, 1892	0.28	3.36	0.40	2.40	0.70	1 00	0.97	3 40
June 18, 1892	0.17	2.04	0.28	1.68	1.05	1 00	1.60	5 10
June 21, 1892	0.22	2.64	0.25	1.50	0.25	0 08	.....	.....
June 23–24, 1892	0.40	4.80	0.65	3.90	1.60	1 00	3.11	13 33
August 30, 1892	0.20	2.40	0.21	1.26	0.23	1 00	0.31	6 30
April 26, 1893	0.24	2.88	0.34	2.04	0.60	1 00	1.32	6 30
June 10, 1893	0.24	2.88	0.35	2.10	0.80	1 00	0.95	2 55
June 20, 1893	0.35	4.20	0.45	2.70	0.46	1 00	1.46	4 56
May 1, 1894	0.37	4.44	0.43	2.58	0.61	1 00	0.70	[6]4 00
May 5, 1894	0.27	3.24	0.31	1.86	0.33	1 00	0.69	6 30
June 23, 1894	0.26	3.12	0.26	1.56	0.27	0 22	.....	.....
June 25, 1894	0.22	2.64	0.32	1.92	0.43	1 00	0.46	2.03
September 3–4, 1894	(4)	.....	(4)	.....	(4)	.....	3.35	(3)
September 6, 1894	0.20	2.40	0.40	2.40	0.63	1 00	0.83	3 25
September 8, 1894	0.20	2.40	0.34	2.04	0.41	1 00	0.52	3 00
August 23–24, 1895	(4)	.....	(4)	.....	(4)	.....	3.65	(3)
August 28, 1895	0.21	2.52	0.35	2.10	0.75	0 38	.....	.....
December 18–20, 1895	0.03	0.36	0.05	0.30	0.16	1 00	3.95	35 30

CINCINNATI, OHIO.

April 12, 1889	0.20	2.40	0.35	2.10	0.50	1 00	0.88	4 42
July 19, 1889	0.22	2.64	0.40	2.40	1.70	1 00	2.40	[6]5 10
May 13–14, 1890	0.22	2.64	0.30	1.80	0.40	1 00	1.15	[6]8 30
June 15, 1890	(5)	.....	(5)	.....	1.36	1 00	.....	.....
June 16, 1890	0.20	2.40	0.30	1.80	0.50	1 00	0.84	3 00
August 26, 1890	0.25	3.00	0.40	2.40	1.10	1 00	2.66	11 50
June 3, 1891	0.25	3.00	0.27	1.62	0.35	1 00	.....	.....
August 24, 1892	0.20	2.40	0.30	1.80	0.45	0 35	.....	.....
September 4, 1892	0.25	3.00	0.40	2.40	0.55	0 37	.....	.....
September 21, 1892	0.20	2.40	0.25	1.50	0.40	[6]0 35	.....	.....
June 22, 1893	0.30	3.60	0.55	3.30	0.80	1 00	.....	.....
July 8, 1893	0.25	3.00	0.30	1.80	0.33	0 30	.....	.....
July 26, 1893	0.20	2.40	0.35	2.10	1.00	1 00	1.30	2 30
June 17, 1894	0.20	2.40	0.33	1.98	0.60	1 00	0.76	[6]7 00
June 18, 1894	0.20	2.40	0.21	1.26	0.26	1 00	.....	.....
August 11, 1894	0.38	4.56	0.70	4.20	1.03	1 00	1.38	4 05
January 5–7, 1895	0.08	0.96	0.13	0.78	0.47	1 00	3.92	[6]37 35
April 1, 1895	0.20	2.40	0.34	2.04	0.75	1 00	1.07	4 20
August 27, 1895	0.25	3.00	0.37	2.22	0.95	1 00	1.17	3 00
August 30–31, 1895	0.20	2.40	0.32	1.92	0.42	0 45	.....	.....

[1] Record from self-register began November, 1889.
[2] The records during portions of 1893, 1894, and 1895 are incomplete.
[3] Exact time unknown; less than 24 hours.
[4] The records during portions of 1893, 1894, and 1895 are incomplete.
[5] Self-register out of order.
[6] Estimated.

CLEVELAND, OHIO.[1]

Date.	5 minutes.		10 minutes.		1 hour or less.		24 hours or more.	
	Amount.	Rate per hour.	Amount.	Rate per hour.	Amount.	Duration.	Amount.	Duration.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*h. m.*	*Inches.*	*h. m.*
June 10, 1890	0.30	3.60	0.55	3.30	0.60	0 28	.....	.....
June 11–12, 1890	0.20	2.40	0.40	2.40	0.93	1 00	1.95	23 55
July 1, 1890	0.20	2.40	0.35	2.10	1.05	1 00	1.30	2 55
August 4, 1890	0.25	3.00	0.40	2.40	0.60	1 00	0.99	4 25
September 10–11, 1890	0.13	1.56	0.25	1.50	0.79	1 00	2.12	17 30
October 13, 1890	0.30	3.60	0.40	2.40	0.55	1 00	0.60	2 00
June 3, 1891	0.47	5.64	0.61	3.66	0.61	0 10	.....	.....
June 20, 1891	0.30	3.60	0.45	2.70	0.46	0 20	.....	.....
May 1, 1892	0.32	3.84	0.49	2.94	0.82	1 00	1.21	4 00
May 5, 1892	0.20	2.40	0.29	1.74	0.51	0 42	.....	.....
June 18, 1892	0.20	2.40	0.30	1.80	0.49	1 00	0.50	1 16
June 23, 1892	0.30	3.60	0.35	2.10	0.47	1 00	0.50	1 23
July 24, 1892	0.32	3.84	0.49	2.94	0.93	1 00	1.28	1 18
July 29, 1892	0.28	3.36	0.37	2.22	0.52	1 00	0.82	2 55
August 19, 1892	0.35	4.20	0.56	3.36	1.12	1 00	1.41	4 50
September 10, 1892	0.21	2.52	0.22	1.32	0.25	1 00	0.49	1 35
May 31, 1893	0.32	3.84	0.55	3.30	0.86	1 00	0.96	3 30
May 17, 1894	0.20	2.40	0.33	1.98	0.66	1 00	0.75	2 40
May 18, 1894	0.26	3.12	0.30	1.80	0.49	1 00	0.67	1 40
August 1, 1894	0.20	2.40	0.21	1.26	0.26	1 00	0.38	1 55
August 3, 1895	0.21	2.52	0.38	2.28	0.58	1 00	0.89	2 50
August 6, 1895	0.20	2.40	0.22	1.32	0.28	1 00	0.64	3 25
August 28, 1895	0.20	2.40	0.30	1.80	0.42	0 33	.....	.....
September 4, 1895	0.22	2.64	0.39	2.34	0.60	1 00	0.64	1 15
September 12, 1895	0.30	3.60	0.39	2.34	0.42	0 40	.....	.....

DENVER, COLO.[1]

June 24, 1889	.....	.....	.....	.....	0.95	0 32	.....	.....
August 17, 1891	0.20	2.40	0.37	2.22	0.80	0 40	.....	.....
October 12–13, 1892	0.03	0.36	0.05	0.30	0.28	1 00	2.58	24 00
August 2, 1894	0.29	3.48	0.50	3.00	0.76	1 00	1.16	5 25
August 14, 1894	0.20	2.40	0.30	1.80	0.37	0 57	.....	.....
September 7–8, 1894	0.22	2.64	0.37	2.22	0.55	1 00	1.43	12 45
July 22, 1895	0.22	2.64	0.32	1.92	0.92	1 00	1.53	7 33
July 30, 1895	0.23	2.76	0.42	2.52	1.18	1 00	1.62	6 44

DETROIT, MICH.

May 16, 1889	0.48	5.76	0.50	3.00	0.60	0.28	.....	.....
May 29–30, 1889	(2)	.....	(2)	.....	(2)	.....	2.57	24 00
June 16, 1889	0.30	3.60	0.40	2.40	0.75	1 00	1.05	7 34
July 3, 1889	0.25	3.00	0.30	1.80	0.40	1 00	0.45	4 25
June 29, 1890	0.28	3.36	0.40	2.40	0.65	0 50	.....	.....
July 1, 1890	0.25	3.00	0.45	2.70	0.70	0 52	.....	.....
July 24, 1890	0.22	2.64	0.30	1.80	0.32	1 00	0.50	1 35
August 21, 1890	0.15	1.80	0.20	1.20	0.75	1 00	2.72	6 25
September 4, 1890	0.20	2.40	0.35	2.10	0.42	1 00	0.53	1 55
October 13, 1890	0.20	2.40	0.25	1.50	0.27	1 00	0.40	2 06
May 21, 1891	0.22	2.64	0.30	1.80	0.36	[3]0 15	.....	.....
June 22, 1891	0.29	3.48	0.48	2.88	0.74	0 22	.....	.....
May 2–3, 1892	0.21	2.52	0.26	1.56	0.63	1 00	1.63	8 30
May 5–6, 1892	0.25	3.00	0.46	2.76	0.74	1 00	1.01	10 50
June 1, 1892	0.30	3.60	0.39	2.34	0.55	0 24	.....	.....
June 2–3, 1892	0.60	7.20	1.00	6.00	2.15	1 00	3.39	20 42
June 18, 1892	0.35	4.20	0.37	2.22	0.45	1 00	.....	.....
July 27, 1892	0.35	4.20	0.52	3.12	0.80	0 41	.....	.....
September 12–13, 1892	0.11	1.32	0.15	0.90	0.35	1 00	2.90	29 10
June 1, 1893	0.30	3.60	0.34	2.04	0.42	1 00	0.46	3 50
June 3, 1893	0.32	3.84	0.55	3.30	1.80	1 00	2.00	8 00
June 10, 1893	0.22	2.64	0.42	2.52	0.76	1 00	1.30	6 35
July 7, 1893	0.20	2.40	0.30	1.80	0.87	0 58	.....	.....
July 13, 1893	0.22	2.64	0.35	2.10	0.44	0 45	.....	.....
October 3–4, 1893	0.20	2.40	0.31	1.86	0.82	1 00	2.58	22 25
May 22, 1894	0.23	2.76	0.27	1.62	0.35	1 00	0.51	7 40
May 27, 1894	0.25	3.00	0.27	1.62	0.40	1 00	0.54	2 08
June 24, 1894	0.30	3.60	0.50	3.00	0.80	1 00	0.85	1 40
July 20, 1894	0.50	6.00	0.80	4.80	1.01	1 00	1.22	2 30
July 15, 1895	0.32	3.84	0.51	3.06	0.65	1 00	1.02	1 12

[1] Record from self-register began April, 1890. [2] No record. [3] Estimated.

DODGE CITY, KANS.

Date.	5 minutes.		10 minutes.		1 hour or less.		24 hours or more.	
	Amount.	Rate per hour.	Amount.	Rate per hour.	Amount.	Duration.	Amount.	Duration.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*h. m.*	*Inches.*	*h. m.*
July 14, 1889	0.25	3.00	0.35	2.10	0.52	0 20	.....	.....
October 12, 1890	0.25	3.00	0.30	1.80	0.52	1 00	0.58	3 35
April 15-16, 1891	0.25	3.00	0.45	2.70	1.00	1 00	1.37	3 20
April 18, 1891	0.20	2.40	0.27	1.62	0.50	1 00	0.82	2 10
May 24, 1891	0.20	2.40	0.23	1.38	0.45	1 00	0.50	2 15
June 5, 1891	0.25	3.00	0.40	2.40	0.85	0 50	.....	.....
July 6, 1891	0.40	4.80	0.60	3.60	1.00	0 46	.....	.....
July 27, 1891	0.25	3.00	0.35	2.10	0.65	1 00	1.34	3 10
August 12, 1891	0.34	4.08	0.50	3.00	1.06	1 00	1.17	3 21
May 16, 1892	0.20	2.40	0.30	1.80	0.60	1 00	0.83	5 15
May 30, 1892	0.47	5.64	0.52	3.12	0.63	1 00	.....	.....
June 15-16, 1892	0.50	6.00	0.70	4.20	0.95	1 00	1.14	3 55
June 16, 1892	0.30	3.60	0.55	3.30	1.19	0 37	.....	.....
July 16, 1892	0.21	2.52	0.28	1.68	0.29	0 16	.....	.....
August 9, 1892	0.32	3.84	0.60	3.60	1.15	0 35	.....	.....
August 23, 1892	0.35	4.20	0.53	3.18	1.02	1 00	1.54	2 02
September 3, 1892	0.34	4.08	0.58	3.48	0.89	1 00	0.90	1 01
July 15, 1893	0.30	3.60	0.50	3.00	0.55	0 23	.....	.....
July 21, 1893	0.28	3.36	0.56	3.36	1.23	1 00	2.05	6 03
August 19, 1893	0.21	2.52	0.39	2.34	0.82	1 00	0.85	1 05
June 21-22, 1894	0.27	3.24	0.40	2.40	1.34	1 00	2.30	12 05
July 18-19, 1894	0.30	3.60	0.48	2.88	0.70	1 00	0.78	10 20
July 31, 1894	0.27	3.24	0.45	2.70	0.78	1 00	0.80	1 15
June 1-2, 1895	0.13	1.56	0.16	0.96	0.60	1 00	2.92	13 30
June 12, 1895	0.27	3.24	0.46	2.76	0.65	1 00	0.79	7 30
July 22, 1895	0.20	2.40	0.33	1.98	0.85	1 00	1.20	5 10
August 4, 1895	0.30	3.60	0.50	3.00	0.78	1 00	0.80	2 14
August 10-11, 1895	0.20	2.40	0.25	1.50	0.44	1 00	0.45	1 17

DULUTH, MINN.[1]

July 7, 1889	.....	.....	.....	.....	1.10	0 50	.....	.....
August 19-20, 1889	.....	.....	.....	.....	.....	.....	2.76	19 40
September 13-14, 1889	.....	.....	.....	.....	.....	.....	2.94	21 05
July 30, 1890	0.25	3.00	0.38	2.28	0.85	1 00	1.06	1 33
August 7, 1890	0.25	3.00	0.32	1.92	0.78	1 00	1.10	9 10
September 3, 1890	0.25	3.00	0.32	1.92	0.44	0 55	.....	.....
July 16, 1891	0.25	3.00	0.40	2.40	1.35	1 00	1.50	4 10
September 14, 1891	0.20	2.40	0.30	1.80	0.35	1 00	.....	.....
June 13, 1892	0.20	2.40	0.25	1.50	0.65	1 00	1.48	2 53
July 25, 1892	0.20	2.40	0.40	2.40	1.05	0 48	.....	.....
August 8, 1892	0.22	2.64	0.25	1.50	0.55	0 55	.....	.....
August 16, 1892	0.25	3.00	0.30	1.80	0.45	1 00	0.65	1 30
July 7, 1893	0.20	2.40	0.25	1.50	0.58	1 00	1.04	3 15
August 22, 1894	0.27	3.24	0.32	1.92	0.42	1 00	0.48	2 58
September 11, 1895	0.30	3.60	0.37	2.22	0.80	1 00	1.03	4 35
September 15, 1895	0.20	2.40	0.35	2.10	0.45	1 00	0.68	4 55

GALVESTON, TEX.

February 9, 1889	.....	.....	.....	.....	1.40	1 00	.....	.....
March 1, 1889	.....	.....	.....	.....	1.30	0 35	.....	.....
January 4, 1890	0.20	2.40	0.40	2.40	0.75	1 00	0.80	1 30
March 12-13, 1890	0.10	1.20	0.20	1.20	0.55	1 00	2.91	24 00
May 5, 1890	0.43	5.16	0.83	4.98	1.46	1 00	1.79	3 50
May 24, 1890	0.35	4.20	0.65	3.90	[2]2.01	1 00	2.53	3 55
June 6, 1890	0.30	3.60	0.55	3.30	2.55	1 00	3.13	7 30
June 7, 1890	0.35	4.20	0.70	4.20	1.80	1 00	2.25	3 15
August 3, 1890	0.20	2.40	0.25	1.50	0.40	0 43	.....	.....
August 4, 1890	0.40	4.80	0.75	4.50	1.75	1 00	1.84	1 32
August 13, 1890	0.25	3.00	0.40	2.40	0.66	0 50	.....	.....
September 7, 1890	0.20	2.40	0.35	2.10	0.60	1 00	2.62	13 15
September 22, 1890	0.25	3.00	0.45	2.70	0.68	1 00	0.99	5 30
October 20-21, 1890	0.30	3.60	0.45	2.70	0.95	1 00	1.94	16 00
December 24-25, 1890	0.20	2.40	0.35	2.10	1.30	1 00	1.61	12 35
June 29, 1891	0.35	4.20	0.50	3.00	1.20	1 00	.....	.....
July 4-5, 1891	0.26	3.12	0.30	1.80	0.47	1 00	2.16	29 45
July 17, 1891	0.24	2.88	0.32	1.92	0.50	1 00	0.68	4 55

[1] Record from self-register began May, 1890.

[2] Estimated.

GALVESTON, TEX.—Continued.

Date.	5 minutes.		10 minutes.		1 hour or less.		24 hours or more.	
	Amount.	Rate per hour.	Amount.	Rate per hour.	Amount.	Duration.	Amount.	Duration.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*h. m.*	*Inches.*	*h. m.*
August 22–23, 1891	0.39	4.68	0.60	3.60	0.91	1 00	3.35	12 55
September 16, 1891	0.38	4.56	0.56	3.36	0.87	1 00	1.12	4 00
September 22, 1891	0.24	2.88	0.47	2.82	0.70	1 00	.....	.....
September 24, 1891	0.21	2.52	0.42	2.52	0.95	1 00	2.15	12 25
September 25, 1891	0.20	2.40	0.40	2.40	0.53	0 18	.....	.....
February 20, 1892	0.20	2.40	0.35	2.10	0.80	1 00	0.95	1 40
March 24, 1892	0.22	2.64	0.26	1.56	0.51	1 00	0.64	2 40
April 25, 1892	0.20	2.40	0.30	1.80	0.75	1 00	0.84	2 40
August 8, 1892	0.23	2.76	0.35	2.10	0.53	1 00	0.54	1 10
August 9, 1892	0.31	3.72	0.41	2.46	1.10	1 00	4.37	11 20
October 31, 1892	0.22	2.64	0.35	2.10	0.57	1 00	0.68	3 25
November 6, 1892	0.25	3.00	0.32	1.92	1.00	1 00	1.68	4 55
April 18–19, 1893	0.25	3.00	0.33	1.98	1.07	1 00	4.07	9 05
April 30, 1893	0.24	2.88	0.32	1.92	0.75	1 00	0.85	2 40
May 1, 1893	0.20	2.40	0.32	1.92	0.33	1 00	1.02	9 15
June 5, 1893	0.20	2.40	0.28	1.68	0.42	1 00	1.37	18 00
June 12, 1893	0.20	2.40	0.40	2.40	1.06	1 00	1.66	12 30
June 17, 1893	0.20	2.40	0.35	2.10	1.08	1 00	1.24	2 35
June 19, 1893	0.38	4.56	0.58	3.48	1.10	1 00	1.50	7 05
July 12, 1893	0.45	5.40	0.75	4.50	0.85	0 30	.....	.....
July 19, 1893	0.32	3.84	0.51	3.06	0.79	0 53	.....	.....
August 13, 1893	0.24	2.88	0.41	2.46	0.95	0 55	.....	.....
August 25, 1893	0.29	3.48	0.48	2.88	0.60	1 00	0.61	2 15
November 18, 1893	0.38	4.56	0.45	2.70	0.61	1 00	0.80	3 40
November 26, 1893	0.25	3.00	0.45	2.70	1.52	1 00	1.65	2 50
February 21, 1894	0.25	3.00	0.32	1.92	0.63	1 00	0.85	9 44
March 22, 1894	0.35	4.20	0.59	3.54	0.98	1 00	1.47	5 50
April 9, 1894	0.25	3.00	0.30	1.80	0.37	1 00	0.38	1 04
April 18–19, 1894	0.22	2.64	0.28	1.68	0.49	1 00	0.66	4 27
June 12, 1894	0.35	4.20	0.70	4.20	[1] 1.89	1 00	4.30	8 17
June 14, 1894	0.20	2.40	0.32	1.92	0.63	1 00	0.79	7 54
June 17, 1894	0.30	3.60	0.45	2.70	0.87	1 00	0.95	3 49
July 17, 1894	0.35	4.20	0.65	3.90	1.84	1 00	1.86	1 53
July 18, 1894	0.32	3.84	0.40	2.40	0.56	1 00	0.98	8 32
July 30, 1894	[1] 0.28	3.36	0.55	3.30	0.99	1 00	1.84	6 14
August 14–15, 1894	0.17	2.04	0.25	1.50	0.80	1 00	3.56	12 40
August 18, 1894	0.20	2.40	0.30	1.80	0.69	1 00	1.08	9 32
August 19, 1894	0.20	2.40	0.26	1.56	0.77	1 00	0.84	1 42
August 21, 1894	0.22	2.64	0.35	2.10	0.69	0 50	.....	.....
August 22, 1894	0.20	2.40	0.23	1.38	0.54	1 00	0.58	2 23
September 14, 1894	0.21	2.52	0.32	1.92	0.71	1 00	1.16	5 02
September 17, 1894	0.25	3.00	0.39	2.34	0.51	0 42	.....	.....
January 28, 1895	0.20	2.40	0.30	1.80	0.54	1 00	.....	.....
May 28, 1895	0.25	3.00	0.45	2.70	1.41	1 00	2.90	12 55
June 21, 1895	0.24	2.88	0.35	2.10	0.67	1 00	0.68	1 10
July 2, 1895	0.25	3.00	0.42	2.52	0.49	0 47	.....	.....
July 21, 1895	0.30	3.60	0.50	3.00	1.18	1 00	1.45	5 42
August 24, 1895	0.37	4.44	0.55	3.30	0.63	0 48	.....	.....
August 29, 1895	[1] 0.54	6.48	[1] 0.93	5.58	[1] 2.32	1 00	3.51	6 45
October 30, 1895	0.20	2.40	0.35	2.10	1.19	1 00	2.24	18 41
November 23–24, 1895	[1] 0.24	2.88	[1] 0.40	2.40	[1] 1.41	1 00	3.74	20 20

INDIANAPOLIS, IND.[2]

January 1, 1890	.....	.....	.....	.....	.....	.....	4.41	23 10
June 11, 1890	[1] 0.20	2.40	[1] 0.41	2.46	1.04	0 25	.....	.....
August 26, 1890	.....	.....	.....	.....	1.50	1 25	.....	.....
September 10–11, 1890	.....	.....	.....	.....	.....	.....	3.25	23 20
February 19–20, 1891	.....	.....	.....	.....	.....	.....	2.86	24 00
August 19, 1891	0.45	5.40	0.65	3.90	1.60	1 00	1.64	2 15
April 28, 1892	0.27	3.24	0.48	2.88	0.90	1 00	1.49	6 00
May 3, 1892	0.22	2.64	0.23	1.38	0.24	0 22	.....	.....
May 30–31, 1892	0.55	6.60	0.65	3.90	0.92	1 00	2.73	7 56
June 8, 1892	0.27	3.24	0.38	2.28	0.44	0 38	.....	.....
June 18, 1892	0.25	3.00	0.32	1.92	0.40	0 50	.....	.....

[1] Estimated.

[2] Record from self-register began August, 1891.

INDIANAPOLIS, IND.—Continued.

Date.	5 minutes.		10 minutes.		1 hour or less.		24 hours or more.	
	Amount.	Rate per hour.	Amount.	Rate per hour.	Amount.	Duration.	Amount.	Duration.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*h. m.*	*Inches.*	*h. m.*
June 20, 1892	0.22	2.64	0.34	2.04	0.63	0 50		
July 26, 1892	0.30	3.60	0.38	2.28	0.46	1 00		
August 19, 1892	0.25	3.00	0.30	1.80	0.38	0 55		
April 12, 1893	0.20	2.40	0.25	1.50	0.30	1 00	0.34	1 07
June 20, 1893	0.45	5.40	0.56	3.36	0.57	1 00	0.60	1 15
June 21, 1893	0.30	3.60	0.46	2.76	0.58	1 00	0.59	1 10
September 12, 1893	0.22	2.64	0.35	2.10	0.57	1 00	0.85	4 27
February 12–13, 1894							2.69	[1]22 40
May 10, 1894	0.42	5.04	0.53	3.18	0.69	1 00	0.71	3 40
June 22, 1894	0.23	2.76	0.32	1.92	0.94	1 00	0.95	1 15
June 24, 1894	0.39	4.68	0.50	3.00	0.78	0 45		
June 26, 1894	0.20	2.40	0.40	2.40	0.71	1 00	1.06	4 58
August 10, 1894	0.25	3.00	0.47	2.82	0.93	0 48		
October 2–3, 1894	0.20	2.40	0.30	1.80	0.65	1 00	1.87	10 33
July 18, 1895	0.20	2.40	0.34	2.04	0.75	0 54		
July 20, 1895	0.49	5.88	0.64	3.84	0.71	1 00	0.74	2 25
August 3, 1895	0.20	2.40	0.26	1.56	0.37	1 00	0.43	2 02
August 6, 1895	0.22	2.64	0.32	1.92	0.50	1 00	0.55	1 50
September 3–4, 1895	[1]0.24	2.88	[1]0.35	2.10	[1]1.25	1 00	6.80	8 55
November 25, 1895	0.07	0.84	0.11	0.66	0.38	1 00	2.65	24 00

JACKSONVILLE, FLA.[2]

April 14–15, 1889							3.52	(3)
July 18, 1889					1.09	1 00		
September 23, 1889					3.12	1 00	4.39	(3)
May 28–29, 1890							3.71	24 00
July 15, 1890					0.97	0 40		
October 1, 1890							5.15	6 20
May 27, 1891					1.01	0 45		
July 11, 1891					1.42	1 00		
August 14, 1891	0.21	2.52	0.32	1.92	0.90	1 00	1.38	[1]2 00
August 19, 1891	0.20	2.40	0.32	1.92	0.37	0 45		
August 26, 1891	0.25	3.00	0.26	1.56	0.40	0 38		
August 27, 1891	0.24	2.88	0.38	2.28	0.43	0 30		
September 6, 1891	0.62	7.44	1.18	7.08	2.20	1 00	3.19	3 00
September 10–11, 1891	0.20	2.40	0.30	1.80	0.77	1 00	2.66	(3)
September 11, 1891	0.60	7.20	0.90	5.40	1.08	1 00	1.13	4 12
September 18, 1891	0.30	3.60	0.40	2.40	0.75	1 00	0.88	4 00
September 26–27, 1891	0.30	3.60	0.38	2.28	0.50	1 00		
January 11–12, 1892	0.23	2.76	0.35	2.10	0.85	1 00	1.59	[1]6 00
May 31, 1892	0.20	2.40	0.31	1.86	0.38	1 00	0.42	1 04
June 2, 1892	0.23	2.76	0.38	2.28	0.58	1 00	0.68	2 25
June 20, 1892	0.27	3.24	0.43	2.58	0.62	0 30		
June 22, 1892	0.20	2.40	0.35	2.10	0.88	1 00	1.04	5 05
July 25, 1892	0.20	2.40	0.25	1.50	0.85	1 00	0.86	1 45
August 27, 1892	0.20	2.40	0.37	2.22	0.77	1 00	0.84	3 00
August 31, 1892	0.45	5.40	0.80	4.80	1.30	0 23		
September 7, 1892	0.30	3.60	0.55	3.30	1.35	1 00	1.57	1 35
September 11, 1892	0.26	3.12	0.36	2.16	0.81	1 00	1.58	4 35
September 14, 1892	0.54	6.48	0.59	3.54	0.66	1 00	0.73	5 25
September 18, 1892	0.22	2.64	0.27	1.62	0.34	0 25		
February 28, 1893	0.25	3.00	0.45	2.70	1.05	1 00	1.08	1 50
March 25, 1893	0.20	2.40	0.35	2.10	0.91	1 00	1.21	4 10
April 19–20, 1893	0.33	3.96	0.45	2.70	1.70	1 00	2.54	(3)
May 4, 1893	0.40	4.80	0.46	2.76	0.87	1 00		
May 24, 1893	0.50	6.00	0.77	4.62	1.73	1 00	2.00	2 25
June 1, 1893	0.27	3.24	0.33	1.98	0.34	0 15		
June 15, 1893	0.38	4.56	0.55	3.30	0.62	0 23		
June 30, 1893	0.25	3.00	0.37	2.22	0.65	1 00	1.03	3 10
July 8, 1893	0.55	6.60	0.85	5.10	1.02	0 45		
July 31, 1893	0.45	5.40	0.75	4.50	1.75	1 00	1.81	1 27
August 1, 1893	0.23	2.76	0.45	2.70	1.11	1 00	1.30	4 45
August 6, 1893	0.25	3.00	0.40	2.40	0.53	0 30		
August 7, 1893	0.25	3.00	0.41	2.46	0.86	1 00	1.98	9 23

[1] Estimated. [2] Record from self-register began August, 1891. [3] Exact time unknown; less than 24 hours.

JACKSONVILLE, FLA.—Continued.

Date.	5 minutes.		10 minutes.		1 hour or less.		24 hours or more.	
	Amount.	Rate per hour.	Amount.	Rate per hour.	Amount.	Duration.	Amount.	Duration.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*h. m.*	*Inches.*	*h. m.*
August 9, 1893	0.25	3.00	0.42	2.52	0.68	1 00	1.72	8 21
August 27, 1893	0.15	1.80	0.25	1.50	0.65	1 00	3.62	(1)
October 12–13, 1893	[2]0.06	0.72	[2]0.09	0.54	[2]0.27	1 00	2.99	(1)
April 20, 1894	0.20	2.40	0.22	1.32	0.53	1 00	0.57	3 12
May 30, 1894	0.24	2.88	0.32	1.92	0.34	0 25	.....	.....
June 4, 1894	0.38	4.56	0.52	3.12	0.61	0 55	.....	.....
June 6, 1894	0.30	3.60	0.35	2.10	0.42	0 52	.....	.....
June 20, 1894	0.28	3.36	0.40	2.40	1.15	0 58	.....	.....
June 26, 1894	0.30	3.60	0.44	2.64	0.80	1 00	1.14	5 08
July 2, 1894	0.23	2.76	0.40	2.40	0.63	0 48	.....	.....
July 11, 1894	0.30	3.60	0.45	2.70	1.20	1 00	1.27	1 52
August 10, 1894	0.20	2.40	0.35	2.10	1.25	1 00	1.91	4 01
August 14, 1894	0.35	4.20	0.47	2.82	0.52	0 23	.....	.....
August 18, 1894	0.27	3.24	0.48	2.88	0.64	0 30	.....	.....
August 24, 1894	0.45	5.40	0.70	4.20	1.48	1 00	1.70	3 20
August 28, 1894	0.32	3.84	0.56	3.36	0.71	0 40	.....	.....
September 5, 1894	0.36	4.32	0.38	2.28	0.54	1 00	0.64	4 40
September 14, 1894	0.21	2.52	0.35	2.10	0.38	1 00	0.75	2 52
September 15, 1894	0.20	2.40	0.32	1.92	0.89	1 00	0.92	2 03
September 24, 1894	0.26	3.12	0.30	1.80	0.49	1 00	0.52	3 25
September 25–26, 1894	[2]0.15	1.80	[2]0.25	1.50	[2]0.97	1 00	9.86	24 00
October 6, 1894	0.35	4.20	0.59	3.54	1.82	1 00	2.51	5 40
November 2–3, 1894	0.21	2.52	0.23	1.38	0.35	1 00	2.81	22 40
January 16, 1895	0.35	4.20	[2]0.50	3.00	1.13	1 00	1.67	4 45
January 26, 1895	0.27	3.24	0.38	2.28	0.50	1 00	0.53	[2]4 00
March 11, 1895	0.20	2.40	0.37	2.22	0.55	1 00	0.92	3 30
March 12, 1895	0.45	5.40	0.53	3.18	0.72	1 00	0.76	1 10
April 27, 1895	0.20	2.40	0.38	2.28	0.72	0 43	.....	.....
April 29, 1895	0.21	2.52	0.25	1.50	0.46	1 00	0.48	1 35
June 17, 1895	0.25	3.00	0.50	3.00	1.34	1 00	1.58	4 35
June 26, 1895	0.28	3.36	0.36	2.16	0.77	1 00	0.87	4 02
July 6, 1895	0.25	3.00	0.47	2.82	0.95	0 55	.....	.....
July 15, 1895	0.22	2.64	0.32	1.92	0.66	1 00	0.80	2 50
July 20, 1895	0.22	2.64	0.34	2.04	0.50	1 00	1.05	2 22
July 26, 1895	[2]0.35	4.20	[2]0.58	3.48	[2]1.86	1 00	3.35	8 55
July 31, 1895	0.32	3.84	0.54	3.24	1.29	1 00	1.54	3 00
August 13, 1895	0.30	3.60	0.51	3.06	0.67	1 00	0.69	1 07
September 1, 1895	0.22	2.64	0.35	2.10	0.73	1 00	1.35	7 40
September 13, 1895	0.24	2.88	0.39	2.34	1.08	1 00	1.21	3 30
December 30, 1895	0.20	2.40	0.25	1.50	0.45	1 00	0.60	5 05

KANSAS CITY, MO.[3]

May 17–18, 1889	.....	.....	.....	.....	.....	.....	3.24	22 00
August 6, 1889	.....	.....	.....	.....	0.92	0 30	.....	.....
May 30, 1890	.....	.....	.....	.....	[2]1.09	1 00	1.24	1 08
August 16, 1890	.....	.....	.....	.....	1.27	0 46	.....	.....
October 12–13, 1890	.....	.....	.....	.....	.....	.....	3.40	15 45
March 29, 1891	0.20	2.40	0.25	1.50	0.45	0 45	.....	.....
April 13, 1891	0.20	2.40	0.25	1.50	0.43	0 58	.....	.....
April 18, 1891	0.20	2.40	0.25	1.50	0.35	0 23	.....	.....
May 31, 1891	0.30	3.60	0.51	3.06	1.20	0 42	.....	.....
June 1, 1891	0.20	2.40	0.25	1.50	0.55	1 00	1.35	5 51
June 16, 1891	0.35	4.20	0.50	3.00	0.80	1 00	0.85	1 42
June 18, 1891	0.20	2.40	0.25	1.50	0.35	0 33	.....	.....
August 1, 1891	0.20	2.40	0.40	2.40	1.32	1 00	1.38	1 05
August 15, 1891	0.40	4.80	0.80	4.80	1.55	1 00	2.02	2 28
August 21, 1891	0.20	2.40	0.40	2.40	0.60	1 00	0.80	1 30
April 17, 1892	0.25	3.00	0.45	2.70	0.50	0 37	.....	.....
May 5, 1892	0.45	5.40	0.56	3.36	0.95	1 00	.....	.....
May 9, 1892	0.20	2.40	0.35	2.10	0.50	0 15	.....	.....
June 26, 1892	0.30	3.60	0.35	2.10	0.50	0 40	.....	.....
July 2, 1892	0.20	2.40	0.35	2.10	0.95	1 00	1.32	4 18
September 10, 1892	0.25	3.00	0.33	1.98	0.47	1 00	1.60	8 00
October 13–14, 1892	0.25	3.00	0.35	2.10	0.45	1 00	1.60	5 55

[1] Exact time unknown; less than 24 hours. [2] Estimated. [3] Record from self-register began January, 1891.

KANSAS CITY, MO.—Continued.

Date.	5 minutes.		10 minutes.		1 hour or less.		24 hours or more.	
	Amount.	Rate per hour.	Amount.	Rate per hour.	Amount.	Duration.	Amount.	Duration.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*h. m.*	*Inches.*	*h. m.*
April 11, 1893	0.20	2.40	0.35	2.10	1.05	1 00	1.09	1 05
May 25, 1893	0.27	3.24	0.45	2.70	0.98	1 00	1.33	2 30
June 21, 1893	0.25	3.00	0.42	2.52	1.08	1 00	1.10	1 15
June 23–24, 1893	0.22	2.64	0.42	2.52	0.77	1 00	1.20	3 02
July 4, 1893	0.28	3.36	0.43	2.58	0.98	1 00	1.26	3 33
July 16, 1893	0.25	3.00	0.36	2.16	0.75	1 00	0.95	2 55
September 21, 1893	0.20	2.40	0.35	2.10	0.50	1 00	1.24	6 15
March 4, 1894	0.15	1.80	0.27	1.62	1.00	1 00	1.69	4 45
June 9–10, 1894	0.20	2.40	0.30	1.80	1.07	1 00	2.80	14 38
June 21, 1894	0.25	3.00	0.32	1.92	0.34	0 20	.....	.....
June 24–25, 1894	0.32	3.84	0.46	2.76	0.85	1 00	2.81	9 50
July 4, 1894	0.29	3.48	0.50	3.00	1.10	1 00	2.27	9 40
July 29, 1894	0.27	3.24	0.44	2.64	0.90	1 00	1.79	3 05
September 3, 1894	0.35	4.20	0.60	3.60	1.81	1 00	3.75	[1]6 20
September 9, 1894	0.26	3.12	0.30	1.80	0.33	0 35	.....	.....
May 4, 1895	0.25	3.00	0.41	2.46	0.53	0 53	.....	.....
June 17–18, 1895	0.65	7.80	1.10	6.60	2.40	1 00	3.72	7 47
July 19, 1895	0.19	2.28	0.34	2.04	1.23	1 00	1.47	3 20
July 28, 1895	0.47	5.64	0.73	4.38	2.20	1 00	4.56	6 40
August 4–5, 1895	0.28	3.36	0.47	2.82	0.96	1 00	1.91	7 21
August 23, 1895	0.20	2.40	0.30	1.80	0.76	1 00	1.39	2 52

KEY WEST, FLA.[3]

March 12–13, 1889	.....	.....	.....	.....	.....	.....	2.79	19 30
June 15–16, 1889	.....	.....	.....	.....	.....	.....	2.72	22 20
September 21–22, 1889	.....	.....	.....	.....	.....	.....	7.90	18 00
November 9, 1889	.....	.....	.....	.....	.....	.....	4.52	[2]
September 29–30, 1890	.....	.....	.....	.....	.....	.....	2.53	[2]
October 10, 1890	0.30	3.60	0.45	2.70	0.55	1 00	0.62	1 55
November 19, 1890	0.35	4.20	0.60	3.60	1.15	1 00	1.30	3 45
November 26, 1890	0.27	3.24	0.45	2.70	0.80	1 00	1.53	[1]5 30
January 22, 1891	0.25	3.00	0.33	1.98	0.75	1 00	1.81	5 20
March 27, 1891	0.35	4.20	0.42	2.52	0.71	1 00	.....	.....
June 21–22, 1891	0.24	2.88	0.29	1.74	0.46	1 00	0.50	2 25
July 12, 1891	0.30	3.60	0.50	3.00	0.69	1 00	0.74	2 47
August 6, 1891	0.20	2.40	0.35	2.10	0.67	0 55	.....	.....
August 15, 1891	0.30	3.60	0.42	2.52	0.95	0 55	.....	.....
August 21, 1891	0.30	3.60	0.52	3.12	1.35	0 47	.....	.....
August 29–30, 1891	0.30	3.60	0.60	3.60	1.70	1 00	4.04	4 39
September 6, 1891	0.22	2.64	0.40	2.40	0.75	0 40	.....	.....
September 10, 1891	0.28	3.36	0.52	3.12	0.65	1 00	1.47	3 30
September 15, 1891	0.25	3.00	0.36	2.16	0.60	0 27	.....	.....
September 20, 1891	0.45	5.40	0.65	3.90	1.56	1 00	2.24	2 40
October 2, 1891	0.30	3.60	0.60	3.60	0.95	1 00	1.05	2 10
October 9, 1891	0.35	4.20	0.40	2.40	0.75	0 50	.....	.....
April 27, 1892	0.20	2.40	0.25	1.50	0.32	0 36	.....	.....
September 21, 1892	0.23	2.76	0.30	1.80	0.48	1 00	0.57	2 30
September 24, 1892	0.24	2.88	0.45	2.70	1.06	1 00	.....	.....
October 5, 1892	0.21	2.52	0.30	1.80	0.52	0 37	.....	.....
November 18, 1892	0.23	2.76	0.30	1.80	0.43	[1]0 35	.....	.....
May 17, 1893	0.23	2.76	0.33	1.98	0.76	1 00	0.91	3 27
June 13, 1893	0.30	3.60	0.43	2.58	0.53	[1]1 00	.....	.....
June 24, 1893	0.23	2.76	0.33	1.98	0.47	0 25	.....	.....
July 14, 1893	0.20	2.40	0.28	1.68	0.65	0 45	.....	.....
July 22, 1893	0.20	2.40	0.33	1.98	0.48	1 00	0.64	1 43
July 23, 1893	0.41	4.92	0.65	3.90	0.90	0 33	.....	.....
August 31, 1893	0.21	2.52	0.34	2.04	0.45	0 23	.....	.....
October 19, 1893	0.23	2.76	0.37	2.22	0.80	0 45	.....	.....
January 29, 1894	0.24	2.88	0.27	1.62	0.33	1 00	0.34	1 20
March 1, 1894	0.24	2.88	0.33	1.98	0.65	1 00	0.83	[1]3 00
May 27, 1894	0.35	4.20	0.65	3.90	[1]2.25	1 00	3.47	5 54
June 10–11, 1894	0.25	3.00	0.38	2.28	1.08	1 00	1.33	12 00
August 4, 1894	0.45	5.40	0.80	4.80	1.13	1 00	2.53	5 10
August 30, 1894	0.25	3.00	0.37	2.22	0.55	1 00	.....	.....
September 2, 1894	0.23	2.76	0.45	2.70	0.96	1 00	1.98	[1]7 00
September 3, 1894	0.24	2.88	0.43	2.58	1.28	1 00	2.64	[1]7 31

[1] Estimated. [2] Exact time unknown; less than 24 hours. [3] Record from self-register began October, 1890.

KEY WEST, FLA.—Continued.

Date.	5 minutes.		10 minutes.		1 hour or less.		24 hours or more.	
	Amount.	Rate per hour.	Amount.	Rate per hour.	Amount.	Duration.	Amount.	Duration.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*h. m.*	*Inches.*	*h. m.*
September 24–25, 1894	(1)	.....	(1)	.....	[2]0.79	1 00	7.66	26 00
October 4–5, 1894	0.44	5.28	0.72	4.32	1.85	0 33	3.49	19 37
October 11, 1894	0.22	2.64	0.32	1.92	1.15	1 00	.....	.....
January 9, 1895	0.22	2.64	0.39	2.34	1.22	1 00	1.79	3 43
February 7, 1895	0.25	3.00	0.46	2.76	1.06	1 00	1.57	[2]5 15
June 4, 1895	0.32	3.84	0.52	3.12	0.59	1 00	0.77	[2]4 00
August 3, 1895	0.35	4.20	0.53	3.18	0.75	0 22	.....	.....
August 6, 1895	0.42	5.04	0.65	3.90	1.13	0 50	.....	.....
August 10, 1895	0.37	4.44	0.51	3.06	0.56	1 00	0.68	[2]4 00
September 20, 1895	0.20	2.40	0.21	1.26	0.51	1 00	0.57	1 36
September 23, 1895	0.27	3.24	0.47	2.82	0.67	1 00	0.81	1 27
October 10–11, 1895	0.25	3.00	0.42	2.52	0.85	1 00	1.10	[2]3 55
December 9, 1895	0.25	3.00	0.26	1.56	0.33	1 00	.....	.....

MEMPHIS, TENN.[3]

April 12, 1889	.....	.....	.....	.....	1.05	0 22	.....	.....
June 12–13, 1889	.....	.....	.....	.....	2.34	1 15	4.12	24 00
July 28, 1889	.....	.....	.....	.....	1.06	0 58	.....	.....
January 2, 1890	.....	.....	.....	.....	.....	.....	2.78	14 05
August 26–27, 1890	0.32	3.84	0.60	3.60	1.05	1 00	2.60	20 04
September 15, 1890	0.20	2.40	0.45	2.70	0.55	0 28	.....	.....
September 23–24, 1890	(4)	.....	(4)	.....	1.35	0 35	4.50	19 30
January 30–31, 1891	(4)	.....	(4)	.....	(4)	(4)	3.96	22 40
February 8, 1891	0.25	3.00	0.35	2.10	0.55	1 00	0.60	2 55
March 6–7, 1891	0.20	2.40	0.30	1.80	0.75	1 00	2.85	24 00
April 15, 1891	0.35	4.20	0.55	3.30	0.80	1 00	1.20	7 30
June 16, 1891	0.25	3.00	0.40	2.40	0.70	1 00	1.30	4 45
June 29, 1891	0.25	3.00	0.30	1.80	0.70	1 00	1.10	4 53
July 26, 1891	0.35	4.20	0.45	2.70	0.45	0 10	.....	.....
July 28–29, 1891	(4)	.....	(4)	.....	(4)	.....	3.56	23 45
October 4, 1891	0.20	2.40	0.30	1.80	0.95	1 00	2.05	7 22
November 16, 1891	0.40	4.80	0.70	4.20	0.95	0 56	.....	.....
February 6, 1892	0.30	3.60	0.55	3.30	0.65	1 00	1.05	6 30
April 20, 1892	0.30	3.60	0.50	3.00	0.75	1 00	3.54	[2]12 00
May 9, 1892	0.30	3.60	0.50	3.00	0.90	1 00	2.16	[2]5 00
May 31, 1892	0.20	2.40	0.25	1.50	0.65	0 53	.....	.....
June 6, 1892	(4)	.....	(4)	.....	1.56	0 50	.....	.....
July 7–8, 1892	0.20	2.40	0.25	1.50	1.00	1 00	3.20	[2]9 14
July 11, 1892	0.25	3.00	0.45	2.70	0.72	0 45	.....	.....
August 11, 1892	0.20	2.40	0.23	1.38	0.45	1 00	1.35	6 12
September 4, 1892	0.30	3.60	0.40	2.40	0.41	0 25	.....	.....
December 12–13, 1892	0.10	1.20	0.15	0.90	0.50	1 00	4.50	23 20
December 15–16, 1892	0.12	1.44	0.18	1.08	0.45	1 00	2.68	18 20
February 16, 1893	0.20	2.40	0.30	1.80	1.15	1 00	2.75	20 27
March 23, 1893	0.20	2.40	0.40	2.40	0.65	1 00	0.75	2 40
April 30, 1893	0.20	2.40	0.40	2.40	0.60	1 00	0.65	1 35
May 27, 1893	0.30	3.60	0.45	2.70	1.00	0 34	3.48	15 53
May 28, 1893	0.20	2.40	0.25	1.50	0.55	1 00	3.35	10 47
May 31, 1893	0.30	3.60	0.45	2.70	0.80	1 00	2.16	10 02
June 19, 1893	0.20	2.40	0.25	1.50	0.28	0 20	.....	.....
September 8–9, 1893	0.07	0.84	0.12	0.72	0.53	1 00	2.55	24 00
January 4, 1894	0.25	3.00	0.45	2.70	0.90	1 00	1.37	[2]7 00
February 2–3, 1894	0.12	1.44	0.23	1.38	0.70	1 00	3.07	15 50
March 18–19, 1894	0.20	2.40	0.30	1.80	0.70	1 00	6.05	20 25
March 22, 1894	0.20	2.40	0.25	1.50	0.35	1 00	0.63	7 15
April 9, 1894	0.20	2.40	0.30	1.80	0.75	1 00	2.61	[2]10 40
April 17, 1894	0.25	3.00	0.40	2.40	0.52	0 40	.....	.....
April 18–19, 1894	0.30	3.60	0.45	2.70	1.10	1 00	3.29	13 05
May 7, 1894	0.25	3.00	0.40	2.40	0.85	1 00	0.92	2 30
June 15, 1894	[2]0.55	6.60	[2]0.80	4.80	1.26	1 00	1.33	1 16
July 19, 1894	0.25	3.00	0.35	2.10	0.60	1 00	0.95	3 50
July 20–21, 1894	0.20	2.40	0.35	2.10	0.50	1 00	0.57	6 50
August 16, 1894	0.20	2.40	0.35	2.10	0.90	1 00	0.96	4 15
August 17, 1894	0.25	3.00	0.40	2.40	1.40	0 40	1.42	1 05

[1] Gauge overflowed before heaviest rainfall occurred.
[2] Estimated.
[3] Record from self-register began July, 1890.
[4] Self-register out of order.

MEMPHIS, TENN.—Continued.

Date.	5 minutes.		10 minutes.		1 hour or less.		24 hours or more.	
	Amount.	Rate per hour.	Amount.	Rate per hour.	Amount.	Duration.	Amount.	Duration.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*h. m.*	*Inches.*	*h. m.*
August 25, 1894	0.30	3.60	0.35	2.10	0.45	1 00	0.57	2 30
January 14–15, 1895	0.07	0.84	0.10	0.60	0.35	1 00	2.70	23 25
April 25–26, 1895	0.25	3.00	0.35	2.10	0.40	1 00	1.26	14 00
July 13, 1895	0.25	3.00	0.34	2.04	0.41	0 45		
November 24–25, 1895	0.11	1.32	0.16	0.96	0.40	1 00	2.55	24 00

MILWAUKEE, WIS.[1]

May 17, 1889					1.16	0 50		
July 12, 1889					0.70	0 30		
September 4, 1889							2.59	10 55
June 2–3, 1891					1.27	0 35	2.53	10 45
June 22, 1892	0.20	2.40	0.25	1.50	0.30	0 55		
August 24, 1892	0.12	1.44	0.17	1.02	0.50	1 00	2.52	17 15
May 11, 1893	0.20	2.40	0.25	1.50	0.35	1 00	0.48	2 15
June 4, 1893	0.25	3.00	0.25	1.50	0.25	0 08		
June 20, 1893	(2)		(2)		[3]1.00	1 00	1.70	1 33
July 9, 1893	0.35	4.20	0.40	2.40	0.50	1 00	0.58	1 57
July 15, 1893	0.35	4.20	0.50	3.00	1.10	0 30		
June 23, 1894	0.25	3.00	0.40	2.40	0.85	1 00	0.93	2 45
June 25, 1894	0.25	3.00	0.35	2.10	0.60	1 00	0.73	2 35
July 14, 1894	0.25	3.00	0.35	2.10	0.64	0 40		
September 7, 1894	0.30	3.60	0.45	2.70	0.80	1 00	1.41	7 10
September 9, 1894	0.65	7.80	0.70	4.20	1.00	0 50		
June 25, 1895	(2)		(2)		1.25	1 00	1.42	3 40
July 18, 1895	0.25	3.00	0.32	1.92	0.45	1 00	0.54	2 30
August 23, 1895	0.25	3.00	0.37	2.22	0.68	1 00	0.83	1 47
August 27, 1895	0.28	3.36	0.36	2.16	0.43	1 00	0.47	2 35
September 15, 1895	0.42	5.04	0.55	3.30	0.68	0 53		

NEW ORLEANS, LA.[4]

June 26, 1889					[3]1.19	1 00	2.86	[3]12 45
June 30, 1889					[3]1.50	1 00	2.76	3 20
July 6, 1889					1.95	1 00		
July 9, 1889					1.04	1 00		
July 12, 1889					1.20	1 00		
July 13, 1889					1.15	0 30		
September 25, 1889					1.39	0 30		
April 17, 1890	0.25	3.00	0.53	3.18	1.75	1 00	1.86	3 35
May 3, 1890	0.30	3.60	0.40	2.40	0.60	1 00	0.86	2 05
May 19, 1890	0.30	3.60	0.39	2.34	0.43	[3]0 15		
June 6, 1890	0.25	3.00	0.45	2.70	0.65	1 00	1.50	3 35
June 16, 1890	0.22	2.64	0.31	1.86	0.35	1 00	0.45	2 15
June 18, 1890	0.21	2.52	0.36	2.16	0.39	0 40		
June 22, 1890	0.35	4.20	0.70	4.20	1.28	1 00	1.50	2 52
July 7, 1890	(2)		(2)		1.00	0 30		
September 2, 1890	0.25	3.00	0.35	2.10	0.79	0 55		
September 10, 1890	0.22	2.64	0.37	2.22	1.05	1 00		
October 15, 1890	0.30	3.60	0.45	2.70	1.50	1 00	1.90	1 25
December 25, 1890	0.30	3.60	0.50	3.00	1.25	1 00	1.60	3 00
February 14–15, 1891	(2)		(2)		(2)		2.51	16 35
July 26, 1891	0.22	2.64	0.27	1.62	0.29	0 14		
August 7, 1891	0.22	2.64	0.24	1.44	0.38	1 00	0.39	1 07
December 14–15, 1891	0.15	1.80	0.25	1.50	0.75	1 00	2.92	24 00
January 10–11, 1892	0.13	1.56	0.18	1.08	0.74	1 00	2.80	11 55
April 21–22, 1892	0.20	2.40	0.32	1.92	1.75	1 00	7.49	24 00
April 24, 1892	0.21	2.52	0.31	1.86	0.49	1 00	1.30	12 00
May 9, 1892	0.20	2.40	0.32	1.92	1.13	1 00	1.30	1 40
June 16, 1892	0.24	2.88	0.27	1.62	0.42	1 00	0.72	3 10
June 28, 1892	0.20	2.40	0.30	1.80	0.42	1 00		
July 7, 1892	0.22	2.64	0.35	2.10	1.26	1 00	1.80	3 30
August 16, 1892	0.20	2.40	0.35	2.10	1.07	1 00	1.95	1 59

[1] Record from self-register began October, 1891.
[2] Self-register out of order.
[3] Estimated.
[4] Record from self-register began October, 1889.

NEW ORLEANS, LA.—Continued.

Date.	5 minutes.		10 minutes.		1 hour or less.		24 hours or more.	
	Amount.	Rate per hour.	Amount.	Rate per hour.	Amount.	Duration.	Amount.	Duration.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*h. m.*	*Inches.*	*h. m.*
September 4, 1892	0.20	2.40	0.29	1.74	0.63	1 00	0.77	2 10
Febuary 11–12, 1893	0.08	0.96	0.11	0.66	0.32	1 00	2.66	11 15
April 19, 1893	0.27	3.24	0.42	2.52	1.40	1 00	2.88	8 40
May 2, 1893	[1]0.20	2.40	[1]0.30	1.80	0.75	1 00	.....	.....
June 5–6, 1893	0.30	3.60	0.47	2.82	0.66	1 00	3.02	24 00
July 12, 1893	0.68	8.16	0.81	4.86	0.82	0 45	.....	.....
July 18, 1893	0.20	2.40	0.30	1.80	0.65	1 00	0.70	1 15
October 1–2, 1893	(2)	.....	(2)	.....	(2)	.....	2.75	[1]14 00
November 21, 1893	0.35	4.20	0.64	3.84	0.83	0 52	.....	.....
November 26–27, 1893	[1]0.20	2.40	[1]0.35	2.10	[1]1.00	1 00	3.35	[1]9 30
December 12, 1893	0.30	3.60	0.50	3.00	1.00	0 58	.....	.....
January 20, 1894	0.23	2.76	0.35	2.10	0.42	1 00	0.66	4 35
February 20–21, 1894	0.12	1.44	0.16	0.96	0.70	1 00	3.59	24 00
March 20, 1894	0.25	3.00	0.45	2.70	0.97	1 00	.....	.....
March 24, 1894	0.27	3.24	0.32	1.92	0.36	1 00	1.02	8 00
April 24, 1894	0.21	2.52	0.42	2.52	2.18	0 55	.....	.....
June 6, 1894	0.20	2.40	0.28	1.68	0.52	1 00	0.84	2 05
June 10, 1894	0.28	3.36	0.40	2.40	0.45	1 00	0.58	3 50
June 17, 1894	0.30	3.60	0.50	3.00	0.68	0 35	.....	.....
June 19, 1894	0.20	2.40	0.35	2.10	0.74	1 00	0.75	1 34
July 2, 1894	0.25	3.00	0.38	2.28	0.53	0 35	.....	.....
July 4, 1894	0.26	3.12	0.45	2.70	0.90	1 00	0.98	3 25
July 5, 1894	0.30	3.60	0.33	1.98	0.44	0 22	.....	.....
July 14, 1894	0.40	4.80	0.75	4.50	1.76	1 00	1.82	1 08
July 16, 1894	0.30	3.60	0.55	3.30	1.37	1 00	1.48	1 30
July 18, 1894	0.26	3.12	0.41	2.46	0.92	1 00	1.07	2 52
August 13, 1894	(2)	.....	(2)	.....	[1]1.70	1 00	2.58	7 08
August 18, 1894	(2)	.....	(2)	.....	1.13	0 50	.....	.....
January 7–8, 1895	0.40	4.80	0.67	4.02	1.12	1 00	4.00	14 30
April 2, 1895	0.40	4.80	0.55	3.30	1.23	1 00	1.28	[1]1 35
May 17, 1895	0.20	2.40	0.22	1.32	0.32	1 00	0.36	2 50
May 22–23, 1895	0.20	2.40	0.35	2.10	0.55	1 00	1.56	11 45
May 24, 1895	[1]0.30	3.60	[1]0.50	3.00	[1]1.00	1 00	4.56	10 45
June 9, 1895	0.20	2.40	0.40	2.40	1.25	1 00	1.74	[1]4 00
June 18, 1895	0.40	4.80	0.55	3.30	1.44	0 50	.....	.....
June 26, 1895	0.20	2.40	0.25	1.50	0.40	1 00	1.17	6 10
July 19, 1895	0.35	4.20	0.40	2.40	0.60	1 00	0.65	2 17
July 25, 1895	0.25	3.00	0.35	2.10	0.47	1 00	0.67	2 15
August 16, 1895	(2)	.....	(2)	.....	(2)	.....	2.62	5 50
August 20, 1895	0.35	4.20	0.57	3.42	0.93	1 00	.....	.....
August 24, 1895	0.20	2.40	0.35	2.10	0.42	0 50	.....	.....
September 16, 1895	0.30	3.60	0.57	3.42	0.70	0 35	.....	.....

NEW YORK, N. Y.

April 25–26, 1889	0.07	0.84	0.12	0.72	0.40	1 00	2.81	20 15
June 17, 1889	0.25	3.00	0.30	1.80	0.35	0 25	.....	.....
July 4, 1889	0.20	2.40	0.27	1.62	0.55	1 00	0.90	1 33
July 27, 1889	0.17	2.04	0.30	1.80	1.05	1 00	2.70	6 30
July 31, 1889	0.30	3.60	0.42	2.52	0.60	1 00	.....	.....
August 3, 1889	0.20	2.40	0.30	1.80	0.55	0 32	.....	.....
September 17, 1889	0.23	2.76	0.30	1.80	0.33	1 00	.....	.....
November 8–9, 1889	0.08	0.96	0.15	0.90	0.45	1 00	2.65	17 38
November 27–28, 1889	(2)	.....	(2)	.....	(2)	.....	2.88	19 15
June 6, 1890	0.35	4.20	0.55	3.30	0.70	0 21	.....	.....
September 16–17, 1890	0.35	4.20	0.50	3.00	1.55	1 00	5.12	16 50
August 23–24, 1891	0.30	3.60	0.40	2.40	1.15	1 00	2.54	4 13
July 3, 1892	0.25	3.00	0.41	2.46	0.70	1 00	1.00	4 27
August 11–12, 1892	0.20	2.40	0.30	1.80	0.45	1 00	1.30	8 40
September 14, 1892	0.20	2.40	0.37	2.22	0.50	0 50	.....	.....
November 15–16, 1892	0.07	0.84	0.12	0.72	0.40	1 00	3.62	24 00
May 3–4, 1893	(2)	.....	(2)	.....	(2)	.....	3.04	24 00
June 6, 1893	0.60	7.20	0.82	4.92	0.90	1 00	1.03	2 28
July 26, 1893	0.21	2.52	0.30	1.80	0.35	0 40	.....	.....
August 19, 1893	0.35	4.20	0.50	3.00	1.60	1 00	1.75	[1]2 00
August 23–24, 1893	(2)	.....	(2)	.....	(2)	.....	3.83	13 41

[1] Estimated. [2] Self-register out of order.

NEW YORK, N. Y.—Continued.

Date.	5 minutes.		10 minutes.		1 hour or less.		24 hours or more.	
	Amount.	Rate per hour.	Amount.	Rate per hour.	Amount.	Duration.	Amount.	Duration.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*h. m.*	*Inches.*	*h. m.*
September 7, 1893	0.30	3.60	0.44	2.64	0.64	0 50	.....	.....
October 22-23, 1893	0.07	0.84	0.13	0.78	0.42	1 00	2.56	21 55
July 14, 1894	0.40	4.80	0.40	2.40	0.41	0 25	.....	.....
August 3, 1894	0.32	3.84	0.46	2.76	0.69	1 00	.....	.....
August 15, 1894	0.21	2.52	0.32	1.92	0.44	1 00	0.45	1 20
September 8, 1894	0.30	3.60	0.50	3.00	0.83	1 00	1.76	11 29
September 19, 1894	0.20	2.40	0.31	1.86	0.96	1 00	4.30	15 09
June 29, 1895	0.25	3.00	0.29	1.74	0.50	1 00	0.64	1 44
July 30, 1895	0.22	2.64	0.35	2.10	0.57	0 47	.....	.....
August 4, 1895	0.38	4.56	0.46	2.76	0.57	1 00	0.62	3 00
August 7, 1895	0.42	5.04	0.68	4.08	0.91	0 45	.....	.....
August 12, 1895	0.20	2.40	0.27	1.62	0.31	1 00	0.62	3 16
August 31, 1895	0.35	4.20	0.46	2.76	1.11	1 00	1.18	2 31
October 12-13, 1895	0.12	1.44	0.21	1.26	0.90	1 00	2.78	18 10

NORFOLK, VA.[1]

March 14-15, 1889	.....	.....	.....	.....	.....	.....	2.50	24 00
April 15-16, 1889	.....	.....	.....	.....	.....	.....	4.60	24 00
August 11, 1889	.....	.....	.....	.....	[3]1.09	1 00	1.46	1 20
October 23-24, 1889	.....	.....	.....	.....	.....	.....	3.76	22 45
May 6, 1890	0.20	2.40	0.28	1.68	0.35	0 24	.....	.....
June 18, 1890	0.30	3.60	0.60	3.60	1.00	0 40	.....	.....
July 18, 1890	0.25	3.00	0.50	3.00	0.75	1 00	.....	.....
July 29, 1890	(2)	.....	(2)	.....	(2)	.....	2.70	4 50
September 14, 1890	0.32	3.84	0.50	3.00	1.30	1 00	1.35	2 00
September 27, 1890	0.21	2.52	0.24	1.44	0.85	1 00	1.30	2 40
December 25-26, 1890	(2)	.....	(2)	.....	(2)	.....	2.50	24 00
April 12, 1891	0.20	2.40	0.25	1.50	0.47	1 00	0.55	1 35
May 26, 1891	0.27	3.24	0.35	2.10	0.42	1 00	1.20	5 39
July 4, 1891	0.20	2.40	0.30	1.80	0.40	0 30	.....	.....
July 8, 1891	0.23	2.76	0.40	2.40	0.50	0 20	.....	.....
July 13, 1891	0.23	2.76	0.33	1.98	0.54	1 00	0.70	1 27
July 17, 1891	0.26	3.12	0.40	2.40	1.25	1 00	1.65	1 59
July 29, 1891	0.27	3.24	0.40	2.40	0.70	1 00	0.72	1 25
August 26, 1891	0.30	3.60	0.46	2.76	1.62	1 00	1.95	2 12
September 6, 1891	0.25	3.00	0.41	2.46	0.45	0 15	.....	.....
October 7-8, 1891	[3]0.10	1.20	[3]0.15	0.90	[3]0.50	1 00	2.93	15 55
December 4, 1891	0.20	2.40	0.22	1.32	0.25	0 45	.....	.....
April 22, 1892	0.20	2.40	0.25	1.50	0.85	1 00	2.40	9 05
May 21, 1892	0.37	4.44	0.47	2.82	1.00	1 00	1.55	5 35
June 7, 1892	0.26	3.12	0.42	2.52	0.90	0 48	.....	.....
June 9, 1892	0.20	2.40	0.31	1.86	0.57	1 00	0.60	1 11
June 25, 1892	0.25	3.00	0.40	2.40	0.60	0 40	.....	.....
July 2, 1892	0.29	3.48	0.45	2.70	0.49	0 40	.....	.....
July 14, 1892	0.22	2.64	0.43	2.58	0.88	1 00	0.90	1 05
August 31, 1892	0.38	4.56	0.57	3.42	1.70	1 00	2.13	1 40
September 25, 1892	0.35	4.20	0.60	3.60	0.76	0 45	.....	.....
May 27, 1893	0.25	3.00	0.36	2.16	0.63	0 35	.....	.....
June 6, 1893	0.20	2.40	0.30	1.80	0.35	0 12	.....	.....
June 16-17, 1893	0.13	1.56	0.22	1.32	0.66	1 00	5.97	20 55
July 1-2, 1893	0.32	3.84	0.45	2.70	1.30	1 00	4.22	19 43
July 16, 1893	0.48	5.76	0.91	5.46	1.00	1 00	1.02	2 07
August 10-11, 1893	0.32	3.84	0.50	3.00	1.30	1 00	3.02	5 36
August 20, 1893	0.24	2.88	0.45	2.70	1.28	1 00	1.46	2 13
August 28, 1893	0.32	3.84	0.34	2.04	0.51	1 00	0.55	1 30
November 8-9, 1893	0.10	1.20	0.15	0.90	0.64	1 00	5.48	24 00
May 19, 1894	0.21	2.52	0.24	1.44	0.40	1 00	0.46	1 52
May 23, 1894	0.30	3.60	0.35	2.10	0.37	0 38	.....	.....
May 30, 1894	0.20	2.40	0.35	2.10	0.54	1 00	0.64	3 00
June 6-7, 1894	0.20	2.40	0.29	1.74	0.43	1 00	.....	.....
June 20, 1894	0.45	5.40	0.80	4.80	1.50	1 00	1.55	2 00
July 6, 1894	0.40	4.80	0.66	3.96	2.20	1 00	2.53	1 35
July 21, 1894	0.43	5.16	0.63	3.78	1.71	1 00	1.76	1 37
July 22, 1894	0.47	5.64	0.75	4.50	1.45	1 00	1.95	3 40
July 30, 1894	0.20	2.40	0.30	1.80	0.46	1 00	0.47	1 08

[1] Record from self-register began October, 1889. [2] Self-register out of order. [3] Estimated.

NORFOLK, VA.—Continued.

Date.	5 minutes.		10 minutes.		1 hour or less.		24 hours or more.	
	Amount.	Rate per hour.	Amount.	Rate per hour.	Amount.	Duration.	Amount.	Duration.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*h. m.*	*Inches.*	*h. m.*
August 12, 1894	0.25	3.00	0.38	2.28	0.82	1 00	1.52	3 50
August 13, 1894	0.25	3.00	0.45	2.70	1.00	1 00	1.04	1 04
September 1, 1894	0.35	4.20	0.50	3.00	0.77	1 00	0.81	2 10
October 9–10, 1894	0.12	1.44	0.18	1.08	0.75	1 00	3.00	19 29
April 28, 1895	0.23	2.76	0.30	1.80	0.89	1 00	1.29	4 00
May 25, 1895	0.20	2.40	0.34	2.04	1.23	1 00	2.39	8 13
July 16, 1895	0.23	2.76	0.36	2.16	0.55	0 55	.....	.....
August 27, 1895	0.25	3.00	0.26	1.56	0.61	1 00	0.66	1 31

OMAHA, NEBR.[1]

July 8, 1889	.....	.....	.....	.....	[2]1.18	1 00	1.77	1 30
June 22, 1890	.....	.....	.....	.....	[2]1.02	1 00	1.10	1 05
July 19, 1890	.....	.....	.....	.....	.....	.....	2.97	12 00
September 18, 1890	.....	.....	.....	.....	1.13	1 00	.....	.....
May 30, 1891	.....	.....	.....	.....	1.14	1 00	.....	.....
October 2–3, 1891	.....	.....	.....	.....	.....	.....	2.77	23 40
May 16–17, 1892	.....	.....	.....	.....	.....	.....	2.80	19 58
April 24, 1893	0.20	2.40	0.35	2.10	1.45	1 00	1.60	[2]2 12
May 10–11, 1893	0.25	3.00	0.30	1.80	0.80	1 00	1.60	8 10
June 3–4, 1893	0.20	2.40	0.40	2.40	1.55	1 00	3.55	7 47
August 14, 1893	0.50	6.00	0.80	4.80	1.00	0 35	1.47	3 10
April 29, 1895	0.20	2.40	0.33	1.98	1.15	1 00	1.85	6 35
June 17, 1895	0.24	2.88	0.30	1.80	0.49	1 00	0.69	3 00
August 4, 1895	0.34	4.08	0.50	3.00	1.19	1 00	1.32	3 40
August 22, 1895	0.25	3.00	0.32	1.92	0.71	1 00	0.81	2 40
August 27, 1895	0.50	6.00	0.75	4.50	1.32	1 00	1.54	4 35

PHILADELPHIA, PA.[3]

May 20, 1889	.....	.....	.....	.....	1.00	0 20	.....	.....
July 30–31, 1889	.....	.....	.....	.....	1.17	0 36	3.00	17 10
August 13–14, 1889	.....	.....	.....	.....	1.15	0 40	2.78	8 40
August 21, 1890	0.35	4.20	0.53	3.18	1.16	1 00	1.28	2 23
April 16, 1891	0.45	5.40	0.67	4.02	0.85	0 28	1.04	2 10
June 17, 1891	0.20	2.40	0.31	1.86	0.53	1 00	0.65	[2]1 11
August 12, 1891	0.28	3.36	0.40	2.40	0.50	1 00	0.54	1 53
August 28, 1891	0.36	4.32	0.50	3.00	0.51	0 27	.....	.....
September 5, 1891	0.25	3.00	0.33	1.98	0.42	1 00	1.04	4 20
June 30, 1892	0.20	2.40	0.25	1.50	0.34	0 50	.....	.....
July 3, 1892	0.31	3.72	0.39	2.34	0.64	1 00	1.28	2 10
September 14, 1892	0.31	3.72	0.43	2.58	0.65	1 00	0.95	5 40
June 22, 1893	0.20	2.40	0.31	1.86	0.57	1 00	1.05	2 00
September 15, 1893	0.20	2.40	0.32	1.92	1.36	1 00	1.80	3 18
September 25, 1893	0.20	2.40	0.30	1.80	0.65	1 00	0.74	2 05
May 18, 1894	0.24	2.88	0.39	2.34	0.64	1 00	0.79	4 05
May 20–21, 1894	0.09	1.08	0.13	0.78	0.34	1 00	3.10	24 00
May 27, 1894	0.30	3.60	0.45	2.70	0.67	1 00	0.90	7 51
August 2, 1894	0.25	3.00	0.45	2.70	0.69	0 55	.....	.....
August 18, 1894	0.23	2.76	0.30	1.80	0.37	0 35	.....	.....
September 8, 1894	0.18	2.16	0.35	2.10	[2]1.00	1 00	1.81	2 27
April 8–9, 1895	0.24	2.88	0.36	2.16	0.72	1 00	2.76	22 08
June 12, 1895	0.25	3.00	0.36	2.16	0.65	0 26	.....	.....
July 5, 1895	0.20	2.40	0.25	1.50	0.43	0 40	.....	.....

PORTLAND, OREG.[3]

February 1–2, 1890	.....	.....	.....	.....	.....	.....	3.81	24 00
January 2–4, 1895	(4)	.....	(4)	.....	(4)	.....	4.43	53 45

[1] Record from self-register began October, 1892.
[2] Estimated.
[3] Record from self-register began April, 1890.
[4] Self-register out of order.

ROCHESTER, N. Y.[1]

Date.	5 minutes.		10 minutes.		1 hour or less.		24 hours or more.	
	Amount.	Rate per hour.	Amount.	Rate per hour.	Amount.	Duration.	Amount.	Duration.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*h. m.*	*Inches.*	*h. m.*
May 3-4, 1893	.....	.....	.....	.....	.....	.....	2.58	24 00
August 28-29, 1893	.....	.....	.....	.....	.....	.....	4.19	19 41
May 17-18, 1894	0.20	2.40	0.40	2.40	0.76	1 00	1.60	10 40
June 17, 1894	0.20	2.40	0.30	1.80	0.82	0 50	.....	.....
May 8, 1895	0.30	3.60	0.50	3.00	0.74	0 53	.....	.....
August 17, 1895	0.28	3.36	0.41	2.46	0.62	1 00	1.86	6 43
September 26, 1895	0.20	2.40	0.25	1.50	0.79	1 00	1.17	5 25

ST. LOUIS, MO.

May 26, 1889	0.20	2.40	0.25	1.50	0.27	[2]0 15	.....	.....
July 14, 1889	0.20	2.40	0.25	1.50	0.30	1 00	0.45	1 20
September 4-5, 1889	0.23	2.76	0.45	2.70	1.00	1 00	1.85	9 55
January 1, 1890	([3])	.....	([3])	.....	([3])	.....	3.57	17 55
March 27, 1890	0.30	3.60	0.60	3.60	0.70	0 25	.....	.....
May 18, 1890	[2]0.25	3.00	[2]0.50	3.00	[2]2.25	1 00	2.28	1 05
May 23, 1890	([3])	.....	([3])	.....	1.50	0 30	.....	.....
June 17, 1890	0.25	3.00	0.35	2.10	0.65	0 45	.....	.....
June 8, 1891	0.21	2.52	0.35	2.10	1.03	1 00	1.25	1 22
June 16, 1891	0.25	3.00	0.33	1.98	0.65	1 00	1.10	3 22
June 20, 1891	0.23	2.76	0.46	2.76	0.68	1 00	0.95	2 30
August 11, 1891	0.35	4.20	0.60	3.60	0.80	1 00	0.85	1 35
August 18, 1891	0.25	3.00	0.37	2.22	0.45	1 00	0.50	[2]1 40
April 3-4, 1892	([3])	.....	([3])	.....	([3])	.....	2.52	19 20
June 18, 1892	0.20	2.40	0.31	1.86	0.54	0 40	.....	.....
July 13, 1892	0.35	4.20	0.57	3.42	0.75	1 00	1.35	2 12
August 7, 1892	0.40	4.80	0.51	3.06	0.86	1 00	0.94	1 52
April 29-30, 1893	0.17	2.04	0.26	1.56	0.67	1 00	2.78	8 05
May 25-26, 1893	0.28	3.36	0.30	1.80	0.70	1 00	3.26	16 05
July 28, 1893	0.21	2.52	0.37	2.22	0.85	1 00	0.88	2 45
May 17, 1894	([3])	.....	([3])	.....	1.10	1 00	.....	.....
July 28, 1894	0.23	2.76	0.40	2.40	0.72	1 00	0.92	3 06
September 4, 1894	0.22	2.64	0.25	1.50	0.60	1 00	0.98	5 00
June 17, 1895	0.25	3.00	0.38	2.28	0.53	1 00	0.64	4 50
July 29, 1895	0.39	4.68	0.64	3.84	0.97	1 00	2.92	7 37

ST. PAUL, MINN.[4]

June 23, 1890	0.30	3.60	0.32	1.92	0.36	1 00	0.43	1 31
May 31, 1891	0.22	2.64	0.38	2.28	0.68	1 00	0.75	4 50
June 13, 1891	0.24	2.88	0.40	2.40	0.57	1 00	0.63	1 37
June 27, 1891	([3])	.....	([3])	.....	1.00	0 55	.....	.....
August 13, 1891	0.33	3.96	0.55	3.30	1.05	1 00	1.10	2 32
August 20, 1891	0.35	4.20	0.62	3.72	1.16	1 00	1.80	6 05
June 6, 1892	0.35	4.20	0.55	3.30	0.90	0 50	.....	.....
June 12, 1892	0.24	2.88	0.47	2.82	0.66	0 30	.....	.....
June 15, 1892	0.70	8.40	1.00	6.00	1.30	1 00	1.35	1 01
July 18, 1892	0.25	3.00	0.34	2.04	0.50	1 00	1.25	4 47
July 26-27, 1892	0.40	4.80	0.70	4.20	[5]1.35	[5]0 25	4.91	13 40
August 8, 1892	0.20	2.40	0.35	2.10	0.67	1 00	1.05	2 16
October 1, 1892	0.20	2.40	0.30	1.80	1.03	1 00	1.09	2 00
June 21, 1893	0.26	3.12	0.39	2.34	0.68	0 45	.....	.....
July 7, 1893	0.20	2.40	0.27	1.62	0.60	1 00	0.73	2 05
August 23, 1893	0.50	6.00	0.70	4.20	1.10	0 51	.....	.....
September 18, 1893	0.22	2.64	0.31	1.86	0.45	0 58	.....	.....
May 15-16, 1894	0.40	4.80	0.65	3.90	1.13	1 00	2.88	8 42
September 14, 1894	0.21	2.52	0.23	1.38	0.40	1 00	0.51	5 10
June 9, 1895	0.34	4.08	0.61	3.66	1.02	1 00	1.18	4 50
June 23, 1895	0.34	4.08	0.56	3.36	0.68	1 00	0.75	1 37
July 6, 1895	0.32	3.84	0.41	2.46	0.54	1 00	.....	.....
July 18, 1895	0.23	2.76	0.45	2.70	1.30	1 00	3.19	16 37
August 9, 1895	0.25	3.00	0.37	2.22	0.59	0 50	.....	.....
September 21-22, 1895	0.12	1.44	0.18	1.08	0.64	1 00	3.19	20 43

[1] Record from self-register began September, 1893.
[2] Estimated.
[3] Self-register out of order.
[4] Record from self-register began April, 1890.
[5] Gauge overflowed.

SALT LAKE CITY, UTAH.[1]

Date.	5 minutes.		10 minutes.		1 hour or less.		24 hours or more.	
	Amount.	Rate per hour.	Amount.	Rate per hour.	Amount.	Duration.	Amount.	Duration.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*h. m.*	*Inches.*	*h. m.*
July 27, 1893	0.27	3.24	0.32	1.92	0.42	0 30	.....	.....

SAN DIEGO, CAL.[2]

January 19, 1895	0.20	2.40	[3]0.25	1.50	[3]0.34	1 00	2.10	13 10

SAN FRANCISCO, CAL.

March 12–13, 1889	.....	.....	.....	.....	.....	.....	3.08	23 45
May 5, 1889	0.25	3.00	0.28	1.68	0.47	1 00	1.00	8 00
February 14–15, 1891	([4])	.....	([4])	.....	([4])	.....	3.38	23 15
January 19–20, 1894	0.15	1.80	0.17	1.02	0.36	1 00	2.61	24 00

SAVANNAH, GA.

June 9, 1889	0.40	4.80	0.50	3.00	0.71	0 24	.....	.....
June 27, 1889	0.40	4.80	0.65	3.90	1.35	1 00	1.60	3 05
June 28, 1889	0.25	3.00	0.35	2.10	0.90	1 00	1.55	6 12
July 6, 1889	0.30	3.60	0.40	2.40	0.80	1 00	0.95	2 45
July 17, 1889	0.25	3.00	0.45	2.70	0.80	1 00	2.58	7 32
August 6, 1889	0.45	5.40	0.80	4.80	2.20	1 00	2.60	5 05
August 8, 1889	0.40	4.80	0.80	4.80	1.10	1 00	1.20	1 25
September 1, 1889	0.40	4.80	0.75	4.50	1.10	0 42	.....	.....
September 6, 1889	0.33	3.96	0.60	3.60	1.10	1 00	1.30	3 40
May 3, 1890	0.30	3.60	0.40	2.40	0.60	0 50	.....	.....
June 11, 1890	0.35	4.20	0.55	3.30	0.90	0 35	.....	.....
June 20, 1890	0.20	2.40	0.30	1.80	0.70	1 00	0.78	1 48
July 1, 1890	0.35	4.20	0.50	3.00	0.70	0 40	.....	.....
July 8, 1890	0.40	4.80	0.70	4.20	1.05	1 00	1.20	4 15
July 27, 1890	0.30	3.60	0.50	3.00	0.80	1 00	1.65	10 00
August 10, 1890	0.20	2.40	0.30	1.80	0.70	1 00	0.75	1 35
September 1–2, 1890	0.30	3.60	0.45	2.70	1.00	1 00	4.69	15 40
September 3, 1890	0.20	2.40	0.25	1.50	0.45	1 00	.....	.....
September 11, 1890	0.25	3.00	0.35	2.10	0.55	0 45	.....	.....
September 12, 1890	0.35	4.20	0.50	3.00	0.70	0 19	.....	.....
September 13, 1890	0.25	3.00	0.40	2.40	0.75	0 35	.....	.....
September 15, 1890	0.20	2.40	0.30	1.80	0.75	1 00	1.10	4 10
September 22, 1890	0.20	2.40	0.35	2.10	0.40	0 55	.....	.....
September 24–25, 1890	0.35	4.20	0.55	3.30	1.65	1 00	4.56	8 30
October 22–23, 1890	0.35	4.20	0.60	3.60	1.00	1 00	3.79	13 15
December 8, 1890	0.25	3.00	0.50	3.00	1.20	1 00	1.29	1 40
May 27, 1891	0.35	4.20	0.50	3.00	0.75	1 00	1.10	9 17
June 8–9, 1891	0.23	2.76	0.32	1.92	0.48	1 00	0.75	3 15
July 18, 1891	0.47	5.64	0.92	5.52	1.90	0 40	.....	.....
July 25, 1891	0.27	3.24	0.43	2.58	0.45	0 30	.....	.....
July 26, 1891	0.28	3.36	0.45	2.70	1.47	1 00	1.64	2 40
July 28, 1891	0.27	3.24	0.50	3.00	1.25	0 58	.....	.....
August 2, 1891	0.20	2.40	0.33	1.98	0.55	0 55	.....	.....
August 6, 1891	0.27	3.24	0.40	2.40	0.60	0 35	.....	.....
August 13, 1891	0.33	3.96	0.50	3.00	1.30	1 00	1.40	1 30
August 22–23, 1891	0.30	3.60	0.50	3.00	1.42	1 00	1.45	1 07
August 24, 1891	0.25	3.00	0.45	2.70	0.64	1 00	0.70	1 09
August 28, 1891	0.50	6.00	0.75	4.50	1.70	1 00	3.15	4 33
September 4, 1891	0.20	2.40	0.22	1.32	0.28	0 41	.....	.....
September 26–27, 1891	0.21	2.52	0.25	1.50	0.35	1 00	0.85	4 05
October 2, 1891	0.20	2.40	0.30	1.80	0.35	0 34	.....	.....

[1] Record from self-register began April, 1892.
[2] Record from self-register began July, 1890.
[3] Estimated.
[4] Self-register out of order during portions of 1891, 1892, and 1893.

SAVANNAH, GA.—Continued.

Date.	5 minutes.		10 minutes.		1 hour or less.		24 hours or more.	
	Amount.	Rate per hour.	Amount.	Rate per hour.	Amount.	Duration.	Amount.	Duration.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*h. m.*	*Inches.*	*h. m.*
November 10, 1891	0.20	2.40	0.25	1.50	0.43	1 00	0.60	2 25
March 25–26, 1892	0.07	0.84	0.11	0.66	0.40	1 00	3.06	20 30
May 10–11, 1892	0.25	3.00	0.35	2.10	0.79	1 00	0.98	2 25
June 7, 1892	0.28	3.36	0.48	2.88	0.70	1 00	0.97	1 48
June 29, 1892	0.23	2.76	0.35	2.10	0.69	1 00	.....	.....
July 18, 1892	0.33	3.96	0.52	3.12	1.48	1 00	1.75	2 30
August 10, 1892	0.33	3.96	0.40	2.40	0.78	0 30	.....	.....
August 31, 1892	0.20	2.40	0.28	1.68	0.35	0 24	.....	.....
September 6, 1892	0.22	2.64	0.42	2.52	0.90	1 00	1.05	1 42
September 11–12, 1892	0.25	3.00	0.40	2.40	0.80	1 00	3.18	19 15
September 19, 1892	0.22	2.64	0.39	2.34	0.55	0 53	.....	.....
September 20, 1892	0.22	2.64	0.33	1.98	1.00	1 00	1.77	4 05
September 21, 1892	0.20	2.40	0.37	2.22	0.43	0 36	.....	.....
December 17, 1892	0.22	2.64	0.28	1.68	0.71	1 00	0.75	1 30
February 27–28, 1893	0.11	1.32	0.20	1.20	0.72	1 00	2.67	16 45
March 4, 1893	0.22	2.64	0.30	1.80	0.40	[1]0 35	.....	.....
May 27, 1893	0.22	2.64	0.30	1.80	0.40	0 51	.....	.....
June 7, 1893	0.29	3.48	0.48	2.88	0.88	0 45	.....	.....
June 14, 1893	0.22	2.64	0.27	1.62	0.46	1 00	0.55	1 12
June 18, 1893	0.25	3.00	0.30	1.80	0.41	1 00	0.41	1 05
June 22, 1893	0.29	3.48	0.38	2.28	0.78	1 00	0.90	1 15
July 2, 1893	0.30	3.60	0.32	1.92	0.40	1 00	.....	.....
July 15, 1893	0.23	2.76	0.38	2.28	1.19	1 00	1.59	1 40
August 3, 1893	0.28	3.36	0.47	2.82	0.75	0 39	.....	.....
August 14, 1893	0.35	4.20	0.58	3.48	0.68	1 00	0.71	1 55
August 20, 1893	0.37	4.44	0.55	3.30	0.66	0 30	.....	.....
August 27–28, 1893	0.22	2.64	0.43	2.58	1.24	1 00	5.41	[1]9 05
September 8–9, 1893	0.34	4.08	0.50	3.00	2.15	1 00	4.28	15 46
September 13, 1893	0.22	2.64	0.38	2.28	1.06	1 00	1.50	4 25
October 3, 1893	0.38	4.56	0.63	3.78	1.52	1 00	2.69	6 10
October 12–13, 1893	0.08	0.96	0.13	0.78	0.54	1 00	3.77	19 00
November 5, 1893	0.23	2.76	0.37	2.22	0.42	0 40	.....	.....
November 27, 1893	0.28	3.36	0.47	2.82	0.50	0 15	.....	.....
June 23, 1894	0.30	3.60	0.50	3.00	0.92	1 00	0.94	2 00
June 27, 1894	0.24	2.88	0.33	1.98	0.47	1 00	0.52	1 19
July 2, 1894	0.23	2.76	0.32	1.92	0.41	1 00	0.42	1 20
July 3, 1894	0.22	2.64	0.37	2.22	0.42	0 35	.....	.....
July 9–10, 1894	0.19	2.28	0.26	1.56	1.03	[1]1 00	4.21	19 35
July 18, 1894	0.50	6.00	0.90	5.40	1.98	1 00	2.54	4 13
July 30, 1894	0.28	3.36	0.40	2.40	0.89	1 00	1.02	2 35
July 31, 1894	0.42	5.04	0.70	4.20	0.96	1 00	1.40	2 34
August 17, 1894	0.33	3.96	0.62	3.72	1.56	1 00	2.25	7 18
September 12, 1894	0.20	2.40	0.35	2.10	0.73	1 00	1.19	5 45
September 26–27, 1894	0.10	1.20	0.12	0.72	0.50	1 00	3.89	28 00
October 4, 1894	0.30	3.60	0.32	1.92	0.32	0 10	.....	.....
November 24, 1894	0.25	3.00	0.37	2.22	0.41	1 00	0.46	[1]5 00
March 12–13, 1895	0.22	2.64	0.27	1.62	0.48	1 00	2.08	12 35
April 24, 1895	0.23	2.76	0.35	2.10	1.00	1 00	1.27	2 35
May 24, 1895	0.20	2.40	0.36	2.16	0.55	0 46	.....	.....
June 13, 1895	0.30	3.60	0.50	3.00	0.94	0 33	.....	.....
June 16, 1895	0.22	2.64	0.37	2.22	1.43	1 00	3.19	9 16
June 24, 1895	0.28	3.36	0.38	2.28	0.84	1 00	0.89	1 31
June 30, 1895	0.24	2.88	0.35	2.10	0.41	1 00	0.47	4 25
July 7, 1895	0.23	2.76	0.32	1.92	0.53	1 00	0.55	1 39
July 12, 1895	0.23	2.76	0.32	1.92	0.54	0 57	.....	.....
July 13, 1895	0.58	6.96	1.05	6.30	2.28	1 00	2.29	1 39
July 25–26, 1895	0.27	3.24	0.43	2.58	1.36	1 00	2.75	[1]6 09
August 3, 1895	0.43	5.16	0.65	3.90	1.89	1 00	4.64	10 14
August 4, 1895	0.35	4.20	0.44	2.64	0.54	0 35	.....	.....
August 17, 1895	0.20	2.40	0.28	1.68	0.36	0 55	.....	.....
August 22, 1895	0.25	3.00	0.42	2.52	1.15	1 00	2.30	3 36

[1] Estimated.

WASHINGTON, D. C.

Date.	5 minutes.		10 minutes.		1 hour or less.		24 hours or more.	
	Amount.	Rate per hour.	Amount.	Rate per hour.	Amount.	Duration.	Amount.	Duration.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Inches.	*Inches.*	*Inches.*	*Inches.*	*Inches.*	*h. m.*	*Inches.*	*h. m.*
April 25–26, 1889	(1)	.....	(1)	.....	(1)	.....	3.21	24 00
May 20, 1889	0.20	2.40	0.28	1.68	0.78	1 00	1.10	3 24
May 31, 1889	0.20	2.40	0.26	1.56	0.47	1 00	2.98	24 00
June 10, 1889	0.20	2.40	0.30	1.80	0.37	0 25	.....	.....
July 1, 1889	0.30	3.60	0.45	2.70	0.98	1 00	1.35	3 08
July 15, 1889	0.30	3.60	0.42	2.52	0.59	0 35	.....	.....
July 30–31, 1889	0.25	3.00	0.40	2.40	0.90	1 00	3.18	23 30
August 6, 1889	0.35	4.20	0.60	3.60	1.05	1 00	.....	.....
August 9, 1889	0.30	3.60	0.45	2.70	0.60	0 23	.....	.....
May 20, 1890	0.20	2.40	0.35	2.10	0.50	1 00	0.55	1 10
June 12, 1890	0.25	3.00	0.35	2.10	0.45	0 44	.....	.....
June 22, 1890	0.25	3.00	0.45	2.70	0.52	0 32	.....	.....
July 2, 1890	0.30	3.60	0.57	3.42	0.88	1 00	.....	.....
August 1, 1890	0.25	3.00	0.33	1.98	1.00	1 00	1.35	1 37
August 14, 1890	0.25	3.00	0.45	2.70	0.70	0 20	.....	.....
August 20, 1890	0.30	3.60	0.55	3.30	0.65	0 21	.....	.....
September 11, 1890	0.30	3.60	0.45	2.70	0.90	0 45	.....	.....
October 22–23, 1890	0.05	0.60	0.08	0.48	0.40	1 00	3.39	24 00
April 11, 1891	0.23	2.76	0.36	2.16	0.77	1 00	.....	.....
June 18, 1891	0.24	2.88	0.35	2.10	0.90	1 00	1.20	2 37
June 21, 1891	0.30	3.60	0.50	3.00	0.95	0 58	.....	.....
July 15, 1891	0.40	4.80	0.50	3.00	0.65	0 27	.....	.....
July 23, 1891	0.25	3.00	0.35	2.10	0.40	0 18	.....	.....
August 24, 1891	0.22	2.64	0.32	1.92	0.70	0 58	.....	.....
September 5, 1891	0.25	3.00	0.28	1.68	0.70	1 00	0.75	1 25
October 19, 1891	0.28	3.36	0.45	2.70	0.80	1 00	0.85	1 25
November 23, 1891	0.35	4.20	0.40	2.40	0.40	0 07	.....	.....
May 26, 1892	0.24	2.88	0.30	1.80	0.51	1 00	1.89	7 26
June 23, 1892	0.21	2.52	0.25	1.50	0.36	0 36	.....	.....
June 27, 1892	0.20	2.40	0.40	2.40	0.70	1 00	0.80	2 02
July 14, 1892	0.32	3.84	0.48	2.88	0.62	0 35	.....	.....
July 19, 1892	0.25	3.00	0.47	2.82	0.86	1 00	0.94	1 40
July 27, 1892	0.28	3.36	0.42	2.52	0.70	0 38	.....	.....
July 22–23, 1892	0.20	2.40	0.30	1.80	0.55	1 00	1.20	6 06
May 3–4, 1893	0.08	0.96	0.13	0.78	0.40	1 00	2.73	19 15
June 26, 1893	0.22	2.64	0.30	1.80	0.52	1 00	.....	.....
September 15, 1893	0.20	2.40	0.30	1.80	0.45	0 43	.....	.....
May 5, 1894	0.22	2.64	0.31	1.86	0.45	1 00	0.70	2 57
May 18, 1894	0.20	2.40	0.30	1.80	0.45	1 00	0.46	2 07
December 12, 1894	0.21	2.52	0.26	1.56	0.40	1 00	1.16	14 30
June 13, 1895	0.20	2.40	0.32	1.92	0.69	1 00	0.72	2 12
June 29, 1895	0.42	5.04	0.68	4.08	0.89	1 00	0.90	2 04
June 30, 1895	0.35	4.20	0.56	3.36	1.28	1 00	2.28	8 37
December 26, 1895	0.20	2.40	0.24	1.44	0.29	1 00	0.30	1 15

[1] Self-register out of order.

Supplemental table showing the accumulated amounts of excessive precipitations for each 5 minutes during some of the heaviest rainfalls at each station furnished with self-registering gauges.

Station and date.	Total duration.		Total amount of precipitation.	Depths of precipitation (in inches) during periods of time as indicated.													
	From—	To—		5 minutes.	10 minutes.	15 minutes.	20 minutes.	25 minutes.	30 minutes.	35 minutes.	40 minutes.	45 minutes.	50 minutes.	60 minutes.	80 minutes.	100 minutes.	120 minutes.
Atlanta, Ga.																	
August 25, 1892	7.52 p. m.	8.45 p. m.	1.15	0.35	0.52	0.54	0.56	0.58	0.69	0.77	0.95	1.09	1.13	1.15	.....	.....	.....
July 29, 1894	8.30 p. m.	9.20 p. m.	1.80	0.02	0.05	0.12	0.20	0.41	0.69	1.07	1.41	1.70	1.80	.....	.....	.....	.....
September 17, 1894	5.55 p. m.	9.15 p. m.	2.97	0.10	0.21	0.33	0.47	0.65	0.82	0.99	1.04	1.11	1.21	1.41	[1]1.81	[1]2.03	[1]2.26
Bismarck, N. Dak.																	
June 1, 1890	4.25 a. m.	6.25 a. m.	1.82	0.03	0.10	0.25	0.39	0.45	0.54	0.61	0.65	0.69	0.71	0.74	0.88	1.46	1.82
August 27, 1892	5.30 p. m.	6.30 p. m.	1.05	0.04	0.06	0.10	0.12	0.14	0.15	0.17	0.20	0.35	0.60	1.05	.....	.....	.....
September 7, 1894	12.04 a. m.	([2])	([2])	0.75	1.00	([2])	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Boston, Mass.																	
August 12, 1892	[1]12.05 a. m.	1.35 a. m.	1.47	0.05	0.40	0.85	0.88	0.90	1.15	1.35	1.44	1.47	.....	.....	.....	.....	.....
August 6, 1893	6.09 p. m.	6.29 p. m.	1.00	0.03	0.21	0.53	0.88	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....
August 20, 1894	12.32 p. m.	1.32 p. m.	1.68	0.05	0.12	0.23	0.33	0.86	1.19	1.43	1.60	1.63	1.66	1.68	.....	.....	.....
Buffalo, N. Y.																	
June 9, 1892	2.40 p. m.	4.20 p. m.	2.22	0.10	0.18	0.28	0.35	0.43	0.76	1.11	1.32	1.41	1.44	1.55	1.99	2.22	.....
June 22, 1892	12.16 a. m.	1.16 a. m.	1.44	0.05	0.08	0.15	0.33	0.50	0.69	0.82	0.90	1.10	1.25	1.44	.....	.....	.....
Chicago, Ill.																	
July 18–19, 1889	11.43 p. m.	12.18 a. m.	1.54	0.25	0.70	1.01	1.22	1.36	1.47	1.54	.....	.....	.....	.....	.....	.....	.....
July 27, 1889	7.22 p. m.	10.40 p. m.	3.97	0.10	0.35	0.50	0.53	0.75	0.90	0.97	1.07	1.15	1.31	1.43	1.54	1.80	[1]2.23
June 18, 1892	6.17 p. m.	7.30 p. m.	1.18	0.08	0.11	0.26	0.38	0.46	0.52	0.58	0.66	0.72	0.87	1.05	1.18	.....	.....
Cincinnati, Ohio.																	
July 19, 1889	3.21 p. m.	4.21 p. m.	2.05	0.18	0.34	0.55	0.72	0.85	0.95	1.00	1.14	1.29	1.40	1.70	[1]2.05	.....	.....
August 26, 1890	1.48 p. m.	2.33 p. m.	1.05	0.03	0.10	0.30	0.48	0.53	0.70	0.85	1.00	1.05	.....	.....	.....	.....	.....
August 11, 1894	6.47 p. m.	7.17 p. m.	0.95	0.05	0.15	0.18	0.40	0.77	0.95	.....	.....	.....	.....	.....	.....	.....	.....
Cleveland, Ohio.																	
July 1, 1890	3.24 p. m.	4.24 p. m.	1.05	0.10	0.22	0.34	0.47	0.67	0.73	0.75	0.76	0.78	0.92	1.05	.....	.....	.....
August 19, 1892	10.48 a. m.	11.18 a. m.	0.96	0.15	0.40	0.66	0.75	0.89	0.96	.....	.....	.....	.....	.....	.....	.....	.....
Denver, Colo.																	
August 17, 1891	4.40 p. m.	5.20 p. m.	0.80	0.03	0.07	0.14	0.21	0.35	0.55	0.70	0.80	.....	.....	.....	.....	.....	.....
July 30, 1895	5.22 p. m.	6.07 p. m.	1.15	0.04	0.15	0.30	0.52	0.71	0.90	1.00	1.07	1.15	.....	.....	.....	.....	.....
Detroit, Mich.																	
June 2, 1892	5.47 p. m.	7.07 p. m.	2.30	0.15	0.29	0.40	0.45	0.48	0.50	0.55	0.75	1.20	1.70	2.15	[1]2.30	.....	.....
June 3, 1893	4.08 p. m.	4.43 p. m.	1.65	0.15	0.40	0.65	0.95	1.25	1.45	1.65	.....	.....	.....	.....	.....	.....	.....
July 20, 1894	3.27 p. m.	3.47 p. m.	0.91	0.11	0.55	0.87	0.91	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dodge City, Kans.																	
June 16, 1892	9.28 p. m.	10.05 p. m.	1.19	0.10	0.30	0.50	0.80	1.05	1.15	1.19	.....	.....	.....	.....	.....	.....	.....
August 23, 1892	3.52 p. m.	5.12 p. m.	1.51	0.12	0.30	0.46	0.56	0.60	0.61	0.62	0.63	0.64	0.65	1.33	1.51	.....	.....
June 21, 1894	8.20 p. m.	9.20 p. m.	1.34	0.18	0.36	0.50	0.75	0.90	0.97	1.08	1.17	1.22	1.25	1.34	.....	.....	.....
Duluth, Minn.																	
July 16, 1891	3.50 p. m.	4.50 p. m.	1.35	0.02	0.05	0.13	0.30	0.54	0.65	0.75	0.83	1.00	1.13	1.35	.....	.....	.....
July 25, 1892	12.02 a. m.	12.50 a. m.	1.05	0.05	0.15	0.30	0.50	0.70	0.80	0.90	0.97	1.03	1.05	.....	.....	.....	.....
Galveston, Tex.																	
May 24, 1890	2.02 p. m.	3.22 p. m.	2.31	0.04	0.19	0.39	0.59	0.74	1.04	1.36	[1]1.49	[1]1.62	[1]1.75	[1]2.01	2.31	.....	.....
June 6, 1890	1.15 p. m.	2.35 p. m.	2.75	0.15	0.33	0.47	0.58	0.78	1.08	1.38	[1]1.68	[1]1.93	[1]2.18	2.55	2.75	.....	.....
July 17, 1894	10.11 a. m.	10.56 a. m.	1.79	0.10	0.30	0.60	0.85	1.05	1.35	1.60	1.72	1.79	.....	.....	.....	.....	.....
Indianapolis, Ind.																	
August 19, 1891	7.38 a. m.	8.23 a. m.	1.55	0.15	0.45	0.72	0.76	0.78	0.80	1.20	1.47	1.55	.....	.....	.....	.....	.....
August 10, 1894	1.57 p. m.	2.32 p. m.	0.87	0.05	0.20	0.40	0.65	0.82	0.85	0.87	.....	.....	.....	.....	.....	.....	.....
September 4, 1895	2.18 a. m.	8.00 a. m.	6.30	([3])	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Jacksonville, Fla.																	
September 23, 1889	4.20 p. m.	5.30 p. m.	3.25	([4])	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
September 6, 1891	2.14 p. m.	3.54 p. m.	3.15	0.10	0.70	1.30	1.65	1.87	2.02	2.04	2.06	2.08	2.10	2.20	2.97	3.15	.....
October 6, 1894	1.57 p. m.	3.17 p. m.	2.09	0.10	0.18	0.27	0.43	0.46	0.50	0.55	0.80	1.05	1.35	1.55	2.09	.....	.....
Kansas City, Mo.																	
September 3, 1894	2.58 a. m.	4.38 a. m.	2.60	0.07	0.10	0.13	0.16	0.28	0.45	0.70	1.00	1.27	1.37	1.81	[1]2.31	[1]2.60	.....
June 17, 1895	6.22 p. m.	7.22 p. m.	2.40	0.05	0.25	0.65	1.30	1.75	[1]1.90	[1]2.05	[1]2.20	[1]2.25	[1]2.30	[1]2.40	.....	.....	.....
July 28, 1896	6.32 a. m.	8.32 a. m.	3.12	0.10	0.20	0.40	0.70	1.15	1.35	1.37	1.39	1.45	1.85	[1]2.10	[1]2.50	2.77	3.12

[1] Estimated; gauge overflowed.
[2] Gauge overflowed in about 10 minutes after heavy rain began.
[3] Gauge overflowed soon after heavy rain began; 6.30 inches fell in 5 hours and 42 minutes.
[4] No record from self-register; 3.25 inches in 1 hour and 10 minutes.

Supplemental table showing the accumulated amounts of excessive precipitations for each 5 minutes, etc.—Continued.

Station and date.	Total duration.		Total amount of precipitation.	Depths of precipitation (in inches) during periods of time as indicated.													
	From—	To—		5 minutes.	10 minutes.	15 minutes.	20 minutes.	25 minutes.	30 minutes.	35 minutes.	40 minutes.	45 minutes.	50 minutes.	60 minutes.	80 minutes.	100 minutes.	120 minutes.
Key West, Fla.																	
August 30, 1891	4.44 a. m.	8.00 a. m.	3.44	0.10	0.30	0.50	0.70	0.78	0.84	0.88	0.92	1.00	1.10	1.70	[1]	.....	.....
May 27, 1894	6.04 p. m.	8.00 p. m.	2.70	0.10	0.27	0.45	0.75	1.00	1.30	1.65	1.90	[2]2.00	[2]2.10	[2]2.25	[2]2.40	[2]2.55	2.70
Memphis, Tenn.																	
April 18, 1894	10.26 p. m.	11.26 p. m.	1.10	0.27	0.45	0.60	0.71	0.74	0.76	0.78	0.81	0.93	1.03	1.10	.....	.....	.....
August 17, 1894	7.25 p. m.	8.05 p. m.	1.40	0.10	0.23	0.45	0.60	0.80	1.03	1.20	1.40	.....	.....	.....	.....	.....	.....
Milwaukee, Wis.																	
July 15, 1893	1.18 a. m.	1.48 a. m.	1.10	0.13	0.45	0.65	0.80	1.00	1.10	.....	.....	.....	.....	.....	.....	.....	.....
September 9, 1894	6.32 p. m.	7.02 p. m.	0.96	0.65	0.70	0.75	0.80	0.88	0.96	.....	.....	.....	.....	.....	.....	.....	.....
New Orleans, La.																	
April 21, 1892	8.03 a. m.	10.03 a. m.	2.95	0.14	0.26	0.44	0.58	0.70	0.85	1.02	1.17	1.32	1.49	1.75	2.17	2.61	2.95
April 24, 1894	7.55 p. m.	8.45 p. m.	2.18	[2]0.27	[2]0.48	[2]0.66	[2]0.90	[2]1.11	[2]1.32	[2]1.53	[2]1.74	[2]1.95	2.18	.....	.....	.....	.....
July 14, 1894	3.12 p. m.	4.12 p. m.	1.76	0.05	0.30	0.70	1.05	1.30	1.50	1.60	1.63	1.67	1.73	1.76	.....	.....	.....
New York, N. Y.																	
September 17, 1890	7.04 a. m.	8.24 a. m.	1.83	0.10	0.17	0.22	0.29	0.35	0.53	0.70	0.90	1.05	1.30	1.55	1.83	.....	.....
August 23, 1891	8.04 p. m.	9.04 p. m.	1.15	0.07	0.30	0.44	0.51	0.60	0.68	0.79	0.93	0.97	1.02	1.15	.....	.....	.....
Norfolk, Va.																	
August 26, 1891	3.52 p. m.	4.52 p. m.	1.62	0.10	0.23	0.40	0.63	0.70	0.78	0.85	1.10	1.25	1.35	1.62	.....	.....	.....
August 31, 1892	4.20 p. m.	5.40 p. m.	1.90	0.07	0.25	0.40	0.49	0.52	0.60	0.95	1.20	1.30	1.48	1.70	[2]1.90	.....	.....
July 6, 1894	10.00 p. m.	11.35 p. m.	2.40	0.15	0.55	0.75	1.03	1.25	1.55	1.75	1.90	[2]1.99	[2]2.07	[2]2.20	[2]2.35	2.40	.....
Omaha, Nebr.																	
April 24, 1893	4.45 a. m.	5.35 a. m.	1.36	0.18	0.35	0.48	0.60	0.75	0.90	1.10	1.25	1.31	1.36	.....	.....	.....	.....
June 3, 1893	7.45 p. m.	8.35 p. m.	1.52	0.15	0.32	0.53	0.57	0.80	0.98	1.15	1.35	1.47	[3]1.52	.....	.....	.....	.....
August 27, 1895	7.51 p. m.	8.51 p. m.	1.32	0.03	0.07	0.09	0.11	0.15	0.18	0.26	0.41	0.76	1.06	1.32	.....	.....	.....
Philadelphia, Pa.																	
August 21, 1890	7.07 p. m.	7.42 p. m.	1.10	0.20	0.50	0.63	0.75	0.95	1.07	1.10	.....	.....	.....	.....	.....	.....	.....
September 15, 1893	5.08 p. m.	6.28 p. m.	1.54	0.15	0.32	0.36	0.45	0.57	0.70	0.79	0.90	1.00	1.15	1.36	1.54	.....	.....
September 8, 1894	7.33 p. m.	8.33 p. m.	1.00	0.15	0.27	0.45	0.62	0.75	0.87	0.89	0.95	[3]0.96	[3]0.98	[3]1.00	.....	.....	.....
Rochester, N. Y.																	
June 17, 1894	5.42 p. m.	6.12 p. m.	0.76	0.10	0.30	0.39	0.50	0.61	0.76	.....	.....	.....	.....	.....	.....	.....	.....
St. Louis, Mo.																	
September 4, 1889	9.53 p. m.	11.13 p. m.	1.17	0.03	0.09	0.15	0.25	0.45	0.65	0.73	0.88	0.94	0.98	1.00	1.17	.....	.....
June 8, 1891	12.03 a. m.	1.25 a. m.	1.25	0.18	0.38	0.45	0.53	0.62	0.73	0.80	0.85	0.89	0.93	1.02	1.25	.....	.....
St. Paul, Minn.																	
August 20, 1891	2.08 a. m.	2.28 a. m.	1.05	0.25	0.60	0.85	1.05	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June 15, 1892	10.55 p. m.	11.55 p. m.	1.30	0.03	0.05	0.09	0.12	0.15	0.16	0.18	0.20	0.50	1.05	1.30	.....	.....	.....
July 18, 1895	3.00 a. m.	5.00 a. m.	1.89	0.03	0.06	0.20	0.35	0.48	0.71	0.89	0.96	0.97	1.00	1.30	1.43	1.77	1.89
Savannah, Ga.																	
August 6, 1889	4.09 p. m.	4.54 p. m.	2.16	0.40	0.80	1.25	1.50	1.75	1.88	2.00	2.08	2.16	.....	.....	.....	.....	.....
September 9, 1893	9.11 a. m.	10.31 a. m.	2.42	0.08	0.25	0.55	0.75	0.95	1.25	1.32	1.40	1.60	1.80	2.11	2.42	.....	.....
July 18, 1895	5.04 p. m.	5.54 p. m.	2.23	0.30	0.70	1.25	1.70	1.80	1.82	1.85	2.01	2.16	2.23	.....	.....	.....	.....
Washington, D. C.																	
August 6, 1889	9.41 p. m.	10.26 p. m.	1.02	0.06	0.11	0.25	0.55	0.87	0.93	0.97	1.00	1.02	.....	.....	.....	.....	.....
August 1, 1890	5.45 p. m.	7.05 p. m.	1.21	0.04	0.10	0.25	0.35	0.42	0.45	0.47	0.50	0.60	0.70	0.78	1.21	.....	.....
June 30, 1895	10.15 p. m.	10.55 p. m.	1.23	0.20	0.38	0.50	0.85	1.10	1.20	1.22	1.23	.....	.....	.....	.....	.....	.....

[1] Gauge overflowed at 5.44 a. m.; at 8 a. m. 1.74 inches additional had fallen. [2] Estimated; gauge overflowed. [3] Estimated.