U. S. DEPARTMENT OF AGRICULTURE

WEATHER BUREAU

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# REPORT

OF THE

# CHIEF OF THE WEATHER BUREAU

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

## LETTER OF TRANSMITTAL.

UNITED STATES DEPARTMENT OF AGRICULTURE,
CENTRAL OFFICE OF THE WEATHER BUREAU,
*Washington, D. C., October 10, 1910.*

SIR: I have the honor to submit a report of the operations of the Weather Bureau during the fiscal year ended June 30, 1910.

WILLIS L. MOORE,
*Chief of Weather Bureau.*

HON. JAMES WILSON,
*Secretary of Agriculture.*

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# PART I.

## ADMINISTRATIVE REPORT.

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# REPORT

OF THE

# CHIEF OF THE WEATHER BUREAU.

## MOUNT WEATHER RESEARCH OBSERVATORY.

Upon the completion of the new main observatory at Mount Weather, the necessary instrumental equipment for taking a full set of meteorological observations was immediately installed, and the first observation in the new building was made on February 18, 1910.

Two observations of the surface meteorological conditions are made daily and telegraphed to Washington, D. C. These observations form a part of the general groundwork upon which the daily forecasts of the weather are made.

### AERIAL RESEARCH.

In addition to the observations of the surface conditions, there is also telegraphed to Washington each day a brief statement of the observations made in the free air at different heights above Mount Weather.

In the beginning of aerial research by the Weather Bureau, in 1897, it was conceived that a synoptic chart of upper-air conditions, made daily, if possible, would be a decided gain to meteorology. Therefore a network of 17 stations was equipped with kites as the sole means of sending recording instruments into the air. It soon developed that kite flights could be made only on days when there was sufficient wind, and that these formed a smaller percentage of the whole than was expected. For this and other reasons the plan of constructing a chart of upper-air conditions was abandoned.

In planning the upper-air work at Mount Weather, advantage was taken of this earlier experience, and an equipment was installed that promised to insure flights in almost any kind of weather. To a certain extent the equipment now on hand has fulfilled its promise. At times, however, the winds blow over the mountains at almost hurricane velocity, while at other times the mountain top will be shrouded by a covering of cloud and rain—conditions that baffle any attempt to launch a kite successfully. In the past 12 months there were nine occasions when a kite flight or a balloon ascension could not be made on account of stress of weather or because of other hindering conditions, such as lack of hydrogen gas in winter.

For the first few years flights at Mount Weather were made on week days and holidays, but not on Sundays. The omission of Sunday flights was largely because of the general rule of the institution to suspend activities on the seventh day in order that its employees might get needed rest and recreation. Following a different arrangement of the force and the addition of a storage battery, Sunday flights began on July 18, 1909, and have continued regularly since, except when prevented by adverse weather conditions.

Progress in the exploration of the upper air must of necessity be slow: First, the records obtained are not uniform, either as to the altitude attained or the time of day the ascension is made; second, owing to the varied character of weather conditions met with in the course of a year it is not possible to distribute the flights in such a way that a fair average of each set of conditions will be obtained. In fact, many important changes occur of which no record is possible. Fortunately, the number of days on which adverse weather conditions prevent a kite flight or balloon ascension are few, there having been, as before stated, but nine during the

last year. But, on the other hand, there were 10 days on which the altitude attained was only 1,000 meters, or less, above sea level; 97 days when the altitude reached was between 1,000 and 2,000 meters;[1] 112 days when it was between 2,000 and 3,000 meters; 74 days with a record of between 3,000 and 4,000 meters; 45 days with 4,000 to 5,000 meters, and 16 days when a height of more than 5,000 meters was attained. Thus it will be seen that the material for study is composed of many flights up to between 3,000 and 4,000 meters and a much smaller number, about 17 per cent of the whole, above that height. It is obvious that a direct comparison of atmospheric conditions, one day with another, is not possible, except when daily records of approximately the same altitude are at hand.

Since the weather conditions, especially those in an area of low pressure, often preclude the sending up of a kite or captive balloon, and since only that portion of the atmosphere up to about 10,000 feet can be profitably investigated by their use, recourse must be had to free small rubber balloons for sending instruments to greater heights. The small balloons are filled with hydrogen gas, and may be sent up singly or in tandem. When sent up singly a parachute is attached so that when the balloon bursts the instrument will be brought safely to the ground. Sounding balloons, as they are called, were used in Europe as early as 1893. Their first use in this country was at St. Louis in 1904 by Rotch. Their first use simultaneously at two stations in this country was by the Mount Weather Research Observatory in September and October, 1909, at Fort Omaha, Nebr., and Indianapolis, Ind. The party at Fort Omaha obtained hydrogen gas from the Signal Corps plant at that place. The party at Indianapolis used hydrogen gas generated on the ground by the iron filings-sulphuric acid process, using a portable generator. As the gas thus generated did not have the lifting power of that used at Fort Omaha, two balloons instead of one were used at Indianapolis, which necessarily reduced the number of synchronous ascensions. Twelve of the 13 instruments sent up from Fort Omaha and 6 of the 7 sent up from Indianapolis were recovered.

The mean of the highest altitude reached at Fort Omaha was 13.3 kilometers, or about 8.3 miles. The greatest altitude reached was a little over 24 kilometers (15 miles). The average height of the Indianapolis ascensions was 14.6 kilometers, about 9 miles, and the height of the highest individual ascension at that place was 19.4 kilometers, or about 12.5 miles.

The detailed data of pressure, temperature, moisture, and directions of the wind for all of the flights will be published in a report already prepared by Research Director W. R. Blair.

A sounding-balloon expedition to Fort Omaha was made by a party from the Mount Weather Research Observatory in May, 1910. Fifteen out of 20 instruments sent up on this expedition were recovered. The altitudes attained were not great, owing, apparently, to a poor quality of rubber in the balloons, which permitted the gas to escape.

Notwithstanding the difficulties encountered in aerial research, the work thus far carried on at Mount Weather has disclosed the following new and important facts:

The stratification of the lower portion of the atmosphere, as regards its temperature and moisture, is more extensive than was hitherto suspected. It has been known for many years that the temperature of the air diminished with increasing altitude, but the details remained more or less obscure until revealed by the daily records brought down by kites and balloons. It has been found that there are many exceptions to the rule of decrease of temperature with increase of altitude; thus, a great layer of warm air is sometimes found floating upon a layer of cold air; and furthermore the thickness and horizontal extent of such masses of warm air may vary greatly. Columns of warm air over a mile in vertical extent have been measured. Again, kite ascensions have disclosed temperature inversions of which no trace remained on the descent of the kite a few hours later. These evanescent inversions are probably produced by small masses of relatively warm air flowing across the line of ascent.

The kite flights have also thrown new light upon the direction and the depth of air currents from the surface to the highest altitudes attained. The various strata of air flowing past a place of observation are not of uniform depth and direction from the surface up, as might be supposed, but are at times composed of layers, each differing somewhat in direction from

[1] 1,000 meters=3,281 feet.

the next adjoining layer. The direction of the surface wind may be from the south, and at the same moment the direction a half mile upward may be from the southwest, and a half mile above that level it may be from the west.

It was known from observations of the clouds that in this hemisphere the wind was deflected to the right with increasing altitude above the ground, but the kite and balloon observations show that at times it is deflected to the left. It has also been found that the depth of easterly winds on this continent is less than over northern Europe.

The data secured by means of kites and balloons point to another equally important conclusion with respect to the time that temperature changes occur at the surface and at altitudes between 1 and 2 miles above, viz, that the changes occur practically simultaneously at both levels. While this conclusion is probably not final, it is in strong contradiction to statements which have been made in this country to the effect that the temperature changes at relatively high levels foreshadow those which take place in low levels twenty-four hours afterwards.

The temperature gradient—that is, the rate of decrease of temperature for each 100 meters of ascent—immediately before the so-called heat thunderstorms does not accord with that called for by theory. Likewise in heated terms, or the so-called "heat waves," the unusually high temperatures appear to be confined to the air strata next the earth's surface and up to less than half a mile above. The heat wave does not advance abruptly as a wall of high temperature, but rather builds gradually over the region affected.

### ATMOSPHERIC ELECTRICITY.

During the year apparatus was installed by means of which the potential gradient on the kite wire could be read off conveniently. This work, however, should be considered as merely preliminary to a more complete determination of the ionic content and movement in the free air.

No change has been made in the magnetic work during the year. Photographic registers of the declination, the inclination, and the horizontal intensity are made daily, and the photographic sheets are properly checked, so that hourly values may be drawn therefrom hereafter.

### SOLAR RADIATION.

Measurements of the intensity of solar radiation and the percentage of polarization of sky light have been made at Washington and Mount Weather, as in previous years. A five-year series of observations at Washington was completed on April 30, 1910, and the results have been summarized for publication in the Mount Weather Observatory Bulletin.

In addition to computations of the value of the solar constant, which are necessarily confined to observations obtained on days when the sky is exceptionally clear, all the pyrheliometric measurements made during the five-year period, 7,350 in number, have been utilized in determining the mean rate at which solar radiation is received at Washington, D. C., with a cloudless sky for different angles of the sun and with average solar declination for each month.

These monthly and annual mean rates show greater departures from the normal than do the computed values of the solar constant. The pyrheliometric observations obtained at European observatories during the past 26 years also show marked fluctuations. It therefore appears to be desirable to undertake a systematic study of the rate at which solar radiation is received at different points in the United States, and of the variations that occur in this rate from year to year. For this purpose, pyrheliometric records as nearly complete as possible will be obtained at four or five stations, so located as to be fairly representative of the different climatological sections of the United States. Prof. H. H. Kimball will have charge of the carrying on of these observations, mostly at points west of the Mississippi River, during the coming fiscal year. Preparations are practically completed for equipping these stations with the new form of pyrheliometer developed and partly constructed by Prof. C. F. Marvin. It is hoped to supplement this instrument in the near future with one that records continuously.

### THE VAPOR IN THE ATMOSPHERE.

Progress has been made toward the installation of apparatus, especially optical, adapted to the study of the quantity of the water vapor in the atmosphere and the investigation of the radiation and absorption of materials and their varying surfaces.

The amount of water vapor in the atmosphere is of such importance as to justify attempts by all known methods to determine it. At present only the hair hygrometer and the spectroscope are available for measurements in the atmosphere above the surface of the earth, and while both methods are unsatisfactory, they should be used for such results as they can give. The amount of water vapor in the air next to the earth's surface is so strongly affected by purely local conditions that its use in weather forecasting has long since been abandoned.

The spectroscopic observations will be made by Prof. William J. Humphreys.

### DISCUSSION AND PUBLICATION OF DATA.

In meteorology, as also in most other natural sciences, the accumulation of data and their discussion from a physical standpoint must go hand in hand; in other words, it would not be wise to go on accumulating data without an attempt at interpretation. To provide a means of publishing the data obtained at the Mount Weather Research Observatory a regular publication, known as the bulletin of that observatory, was established in 1908, as noted in former annual reports. On account of his experience and success as editor of the Monthly Weather Review, Prof. Cleveland Abbe has been assigned as editor of the bulletin.

The field of the new bulletin is technical meteorology and not climatology or education. During the year six numbers have appeared, completing Volume II and including the first part of Volume III. The bulletin contains the detailed records brought down by kites or balloons up to about 5,000 meters in the atmosphere. The results of the first series of synchronous sounding-balloon records made in this country will appear in part 2 of Volume III.

During the year articles discussing the theoretical as well as the practical application of the data obtained at Mount Weather and elsewhere to the problems of meteorology have appeared in the bulletin. The articles on aerial work have been contributed by Research Director Blair; those on the quantity of heat received from the sun by Prof. H. H. Kimball; and those on the changes of wind with altitude by Prof. A. J. Henry, who has also served as executive officer of the observatory.

While the bulletin is devoted principally to the work of Weather Bureau officials at the observatory, its columns are open to eminent scientists throughout the world. Among the latter who have contributed during the year are Prof. R. S. Woodward, president of the Carnegie Institution of Washington; Prof. A. Lawrence Rotch, director of the Blue Hill Observatory; Prof. E. Gold, of the meteorological office of London; and Prof. J. H. Jeans, of Princeton University.

## FORECASTS AND WARNINGS.

### UPPER-AIR OBSERVATIONS AS AIDS TO FORECASTING.

The daily telegraphic reports of upper-air observations from Mount Weather, Va., have been of aid to the forecaster at Washington during the past year, and it is believed that their continued use will further increase the accuracy and range of the forecasts. The following are concrete examples of possibilities in this way:

In this section a storm center sometimes passes eastward or northeastward over the ocean, without being followed by clearing weather on the coast States, as would ordinarily be expected, because of a secondary storm development off the middle or south Atlantic coast. A study of the Mount Weather kite flights shows that north winds occur at high altitudes in advance of the formation of a storm of this character. Thus, it is hoped to be able in future to forecast their development and thereby increase the accuracy of the forecasts of the weather that follows for the entire coast district.

Again, it has been found that when a low-pressure area is approaching from the southwest, and the winds turn to the right (clockwise) with ascent, the usual warming up in the Atlantic States seems to be retarded about 24 hours.

Also, the turning of the winds to the left (counterclockwise) with increased altitude shows the depth of the cold northwest wind. From this may be drawn reasonably correct inferences as to the fall in temperature that may be expected at the surface of the ground within the next 24 hours.

The thickness of the stratum of cold air that advances from the west or northwest with the approach of an anticyclonic area is of the highest importance in determining subsequent temperature conditions. The temperature reports for high altitudes show whether the stratum is shallow or of great depth. When shallow, the cold weather accompanying the high is neither severe nor of long duration; but if the blanket is thick and abnormally low temperatures are reported aloft, the cold will be of marked intensity and will probably last several days. In predictions of sleet, also, it is essential to know what is going on in the upper air. Conditions favorable for sleet are comparatively warm upper air and a thin layer of lower air with its temperature somewhat below the freezing point.

### HURRICANES OF THE YEAR.

The hurricane season of the past year was marked by a number of severe tropical disturbances. Warnings were given to shipping and other interests in every instance in time for them to take all necessary precautions.

*The Galveston hurricane of July 21, 1909.*—The storm was first observed in the Caribbean Sea to the southeast and then to the south of Jamaica on the 15th and 16th. The center of the disturbance moved northward over the Yucatan Channel into the Gulf of Mexico from the 17th to 19th, thence northwestward with increasing energy during the 20th, reaching the Texas coast just south of Galveston on the 21st. Beginning on the 17th, advices regarding the storm were telegraphed to Havana and southern Florida ports, and from the 18th to 21st Atlantic and Gulf shipping interests were informed daily regarding its probable position and course.

The following is from the report of the official in charge of the Weather Bureau office at Galveston:

> The first announcement of the storm's approach was received at this office on the 18th. Advisory messages followed on the 19th and 20th, that of the 20th being to the effect that the disturbance was over the central Gulf, moving northward. Shipping interests and the public were kept thoroughly informed by telephone, bulletins, and the press, and I believe that on July 20 there was not a single news-reading person in the city who was not aware of the storm. It is estimated that the Gulf rose 10 feet above the normal. Volumes of water dashed over the sea wall and flooded the lower portions of the city.

Extract from the Post, Washington, D. C.:

> The citizens of Galveston and the residents of the Texas coastal plain owe a debt of gratitude to the United States Weather Bureau for the timely warnings of the tropical storm that recently swept in from the Gulf of Mexico. While the loss was not large from the ravages of the hurricane, yet it probably would have reached an appalling total in death and damage to property had not the storm's destructive path been foreseen by the bureau many hours before it struck the coast.

Extract from an Associated Press report from Houston, Tex.:

> Advices show that damage was done throughout a section of Texas extending on an average 100 miles into the interior. In some counties reports indicate that very few home owners escaped losses of at least a minor sort. While the property destruction has been great, the life loss and serious injury is inexplicably small. This is attributed largely to the fact that storm warnings gave the inhabitants an opportunity to prepare for the expected blow.

*Hurricane of August 27, 1909.*—This storm, which caused great loss of property at Mole St. Nicholas, was first observed south of Haiti on the 23d. Advices issued on that date stated that the disturbance would move west-northwestward in the region of the Bahamas, and that rough weather would be experienced in Cuban waters and probably as far south as Jamaica. On the 24th the southern Provinces of Cuba were visited by heavy winds and rains that caused considerable damage to property, and in the afternoon a wind velocity of 60 miles an hour from the northeast was reported from Havana. On that date advices were issued that the storm would move west-northwest toward the southeastern portion of the Gulf of Mexico, and vessels were cautioned to avoid those waters. On the 26th the steamer *Cartago* reported the storm by wireless to New Orleans, via Burrwood, La., the distance from the ship to the receiving station being about 500 miles. This is the first instance in which a report of an encounter with a storm at sea was transmitted in time to be utilized in current forecast work. The storm struck the coast

near the mouth of the Rio Grande on the 27th. Although it was severe, no lives were lost during its passage, due to the fact that the Weather Bureau warnings were timely and enabled the people living on the low islands along the Gulf to reach places of safety.

Extract from the Corpus Christi Herald of August 30, 1909:

The people who were at Tarpon Beach are loud in their praises of the United States Weather Bureau, and say that had it not been for the warnings sent out by the bureau every one of them might have been drowned. As it was, they received the warnings in time to seek safety in the quarantine station, where they all remained until the storm was over.

*Tropical storm of September 17–21, 1909.*—This storm was first observed south of Jamaica on the 14th. It moved thence northwestward to the Yucatan Channel, where it was central on the morning of the 17th. Advices were issued to shipping interests at Atlantic and Gulf ports that the hurricane center would probably move northward over the Gulf of Mexico; vessels in extreme south Atlantic and Gulf ports were warned not to leave their harbors, while vessels elsewhere preparing to sail to those waters were told to await the passage of the storm. After a northwestward movement the storm struck the Louisiana coast, about 50 miles west of New Orleans, on the 21st.

The following is taken from the New Orleans Picayune of September 22, 1909:

It must be said to the credit to the Weather Bureau that the excellent work done has proved of incalculable benefit to life and property by the issuance of timely warnings of the storm. On Wednesday of last week the Weather Bureau began to give out bulletins as to the location of the tropical hurricane and its probable trend, and this warning note never ceased from day to day until the crucial moment, Monday morning, when the definite warning was issued telling about the very near approach of the disturbance threatening south Louisiana and probably having some sinister design upon the city of New Orleans. The storm reached this city about the time forecast by the Weather Bureau, and it lasted until nearly midnight Monday.

The following is from the same paper, under date of September 25:

The admirable arrangements made by the weather service insures ample warning of the approach of these West Indian storms, but there is little that can be done to protect property from their ravages. That the timely warnings saved many lives is, however, undoubted, and were the people who live in exposed stretches of the coast to pay greater attention to these warnings the loss of life would be still more reduced. Sailors who go to sea carefully note the weather predictions and are guided thereby, whereas the people living on the low-lying coast, who have actually more to fear than the sailors, usually pay less heed to the storm predictions.

*The Key West hurricane of October 11, 1909.*—This storm was first noted over the south-central Caribbean Sea on the 2d, and masters of vessels in or bound for southern waters were kept advised daily, beginning on the 6th. On the 10th storm warnings were ordered on the south Florida coast, and at 6 a. m. of the 11th they were changed to hurricane warnings. After passing over Key West the hurricane swept the Florida peninsula south of Miami. On the extension of the Florida East Coast Railroad about 3,000 workmen were withdrawn from dangerous points as a result of the bureau's warnings. The following particulars are taken from the report of the Weather Bureau official at Jacksonville, Fla.:

The correctness of the warning and the effectiveness of its distribution are indicated in the small loss of life—about a dozen—along the lines of the projected railroad. Those who were drowned paid the penalty of remaining aboard a tugboat which sank, instead of seeking shelter, as did others. With about 3,000 laborers scattered for many miles over the low islands of the sea along the proposed route of the Florida East Coast Railroad, the fact that the loss of life was so small is an eloquent tribute to the wisdom of the railroad officials in obeying implicitly the information given out by the Weather Bureau. In 1906 many hundreds of laborers were drowned during a tropical storm as a consequence of ignoring warnings. While many tugboats, lighters, and other auxiliary equipment were saved, the losses of the railroad company will reach hundreds of thousands of dollars. It is conceded by the company and by the public press that hundreds of lives were saved through the warnings issued in connection with this storm.

The cooperation of steamship lines has been requested during the coming year as an aid to the forecaster in predicting the direction of movement and the intensity of hurricanes in the Gulf of Mexico, the Caribbean Sea, and West Indian waters. It is hoped to have vessels in those waters report by wireless telegraph to the central office at Washington during the hurricane season of 1910 whenever the meteorological conditions are such as to indicate the presence of a hurricane in the immediate region of the reporting vessel. These reports, in connection with those received from special meteorological stations maintained by the bureau in the West Indies, will give the forecaster information of the greatest value.

FORECASTS FOR EXTENDED PERIODS.

During the past year forecasts for a week or 10 days in advance have been issued from time to time when certain well-defined weather types were shown by reports from selected stations throughout the Northern Hemisphere. These reports are charted daily and show the changes constantly occurring in the great centers of action that control the movements of storms over North America, and as a consequence determine its weather and climate. The conditions existing over western Europe, as shown by the Northern Hemisphere chart of January 26, are typical of the weather over that region during the latter part of January, when heavy rains and resulting floods were experienced in western Europe, and were of particular severity in France. During this period barometric pressure was abnormally low over Iceland and adjacent European districts, and the west-central and northwestern portions of Europe were almost constantly covered by the rain quadrants of a rapid succession of cyclonic areas of exceptional magnitude. These rains were of unprecedented duration and of excessive amounts. It is evident therefore that the floods were caused, not by deforestation, but wholly by the excessive and long-continued rains, extending with hardly any interruption over a period of several weeks.

During the early part of August, 1909, there was a decided lack of rain in the corn-growing States of the Mississippi and Ohio Valleys, and in the upper Mississippi Valley the drought had become severe. Rain was also needed in the Middle Atlantic and New England States. On the 10th an announcement was made that the rains over the western portions of the cotton belt during the preceding two or three days would be supplemented during the succeeding several days by abundant rains in that section and generally over the Southern States. The rains set in as anticipated on the 12th and continued through the 13th.

The following special forecast was issued Wednesday, August 11:

The present barometric conditions indicate that the prevailing drought in the Atlantic States from Virginia northward over Maryland, Pennsylvania, New York, and the New England States will be relieved in part by showers by the close of the present week, and that more general rains will fall in the States referred to by the middle of next week.

A period of rainy weather that set in over the Middle Atlantic and New England States during the closing days of the week ending August 14 continued until the middle of the following week, and in areas in those districts the rainfall was excessive.

On January 30, 1910, the following special forecast was issued:

Present barometric conditions over the Northern Hemisphere indicate that during the week beginning Monday, January 31, temperature will be moderate for the season generally over the United States until the close of the week, when a cold wave is likely to appear in the extreme northwest and advance thence to the Atlantic coast by the early portion of next week. In the meantime storms that will reach the Atlantic seaboard about the middle and close of the week will be attended by sharp fluctuations in temperature in Middle Eastern and Northeastern States and by precipitation generally east of the Mississippi. In middle and northern districts the precipitation will be in the form of snow. In the Missouri and western Mississippi Valleys and the Plains States precipitation will be comparatively light.

A storm advanced from the Rockies to the Atlantic coast from February 1 to 3, and was attended by precipitation east of the Mississippi and by heavy snow in northern portions of New York and New England. In the Missouri and middle and upper Mississippi Valleys the week closed with a cold wave that advanced thence eastward over the Atlantic States during the 6th and 7th, attended in portions of the Middle Atlantic States by the lowest temperatures of the winter. A notable feature of this cold wave was the extremely low temperatures noted in the kite flights at Mount Weather, where, at an elevation above the station of 6,700 feet, a reading of 26° below zero was recorded on the morning of February 7. At the station the temperature at the same hour was 14° above zero.

On February 6 the following special forecast was issued:

The week beginning Monday, February 7, will open with temperature considerably below the average for the season over the eastern portion of the United States. Following the cold period in the East, temperature will rise slowly during the next several days. A disturbance that will reach the Atlantic coast from the Middle West and Northwest about Thursday will be attended by precipitation from the Mississippi Valley eastward; that in more northern States will be in the form of snow and will be followed by a change to colder.

The center of this disturbance reached the Atlantic coast Thursday morning. Its advance from the Rockies was attended by rain in the Southern and Middle States east of the Mississippi

and by snow from the Lake region over New York and New England. It was followed by a marked fall in temperature and by freezing weather as far south as the middle Gulf coast.

On Sunday, February 13, the following special forecast was sent out:

During the present week a general storm, followed by a cold wave, will cross the United States. The center of this storm will appear over the Pacific States within the next two days, cross the Rockies, Plains States, and central valleys during the middle days of the week, and reach the Atlantic seaboard by Friday. The cold wave promises to be rather severe. It will overspread the North Pacific States by Tuesday morning, the middle and northern plateau and Rocky Mountain districts by Wednesday morning, the middle and northern Plains States and central valleys by Thursday, and reach the Atlantic seaboard by Friday or Friday night. In the event of warm heavy rains in the near future, the extraordinary depth of snow on the ground in parts of the Lake region and in the mountain districts of the Middle Atlantic and New England States will present conditions favorable for freshets and floods in the streams of those regions. The outlook for the present is that a tendency toward flood conditions in the larger streams about the middle of the week will be checked by cold weather that will arrive later in the week.

The storm referred to appeared over the North Pacific States on the 14th and moved thence southeastward to the West Gulf States, where it recurved eastward and northeastward and passed to the New England coast by Friday morning, the 18th. It was attended by heavy snow from the Middle Mississippi Valley over the Ohio Valley and lower Lakes, by rain or snow in the Atlantic and West Gulf States, and by rains and thunderstorms in the East Gulf and South Atlantic States. Its passage over the Gulf and Atlantic States was attended by gales of unusual strength. The storm was followed by a cold wave that carried the line of freezing temperature to the Gulf coast.

The following editorial regarding the cold wave and storm above mentioned is taken from the Oklahoma Oklahoman of February 17:

The remarkable accuracy with which the blizzard that is now traveling across the country was predicted days in advance of its advent is deserving of most favorable comment. Sunday's newspapers throughout the United States carried a warning from the Weather Bureau to the effect that a storm was approaching the Pacific coast that would traverse the entire continent and reach the Atlantic coast by Friday. In Oklahoma marked derangement of atmospheric conditions was noticeable Monday night. Late Tuesday evening there came a sudden drop in temperature accompanied by high winds. By Wednesday morning the mercury had dropped to 10° above, and the boreal blasts were carrying considerable snow. Thus the story of a prediction and its fulfillment. The advance warning should have been of incalculable benefit to live-stock men and to shippers and others engaged in vocations which are affected by meteorological conditions.

In the latter part of March, 1910, it was thought that sufficient advance had been made in the knowledge of general weather types to permit the issue each Sunday of a forecast for the ensuing week. Since that time weekly forecasts for the United States, together with a general résumé of weather conditions throughout the entire Northern Hemisphere, have been issued with gratifying success.

The following is a copy of the first regular weekly forecast:

The vernal equinox inaugurates the rainy season in the Tropics. The autumnal equinox marks the central period of the season of so-called equinoctial storms. When the sun in its annual northward journey crosses the line of the equator, the rainy season sets in over the northern equatorial region, and the rain belt keeps pace with the northward movement of the sun until the period of the summer solstice, June 22. About that time the rain belt reaches the northern subtropical regions, like Florida, and the rainy season begins in those regions. Attending the southward movement of the sun, the rain belt again crosses the Tropics, and when the sun has about half completed its return course to the equator the season of severe tropical or equinoctial storms begins in the tropical and subtropical regions of the Atlantic. The North Atlantic season of equinoctial storms extends from August to October, inclusive. On the Atlantic Ocean these storms are called hurricanes, on the Indian Ocean cyclones, and in southeastern Asiatic waters typhoons. In the Pacific area the typhoon season begins earlier and continues later than the hurricane season of the North Atlantic. The vernal equinoctial period of the present year has been attended by exceptionally fine weather over the American continent east of the Rocky Mountains and in western Europe and adjacent waters. Along and south of the trans-Atlantic steamer tracks light to moderate winds and smooth seas have prevailed. Over middle and southern latitudes of the Pacific and adjacent Asiatic coasts no severe disturbances have been reported. Over western portions of the American continent and in eastern Europe and the interior Siberian area marked barometric changes have produced unsettled and stormy weather.

During the present week temperature in the United States will average mild for the season. A disturbance that now occupies the California coast will move eastward and reach the Atlantic coast about Friday. Another disturbance is indicated that should cross the country from about March 31 to April 4. The disturbance should be attended by

rains of increasing area, and will be followed by changes to cooler weather. Atmospheric movements will be more active along the transatlantic routes, and a period of rains is indicated for the British Isles and northwestern Europe.

The following is an extract from a weekly bulletin issued June 12, 1910:

At the close of last week a pronounced disturbance appeared over Iceland, whence it will move eastward and give stormy weather over the British Isles and northwestern Europe during the next three or four days.

The extract next following is taken from the résumé of the following week, and shows the accuracy of the prediction above quoted:

A disturbance of marked intensity moved southeastwardly from Iceland over Europe during the first half of the week, attended by general rains, which produced floods in the rivers of north and central Europe.

The following special forecast was issued Wednesday, June 22:

As forecast in the special bulletin of Sunday, the 19th instant, a break in the hot wave that has prevailed during the past week in Montana, North Dakota, South Dakota, Nebraska, and western Minnesota is now in progress, and the indications are that there will be local rains and several days of normal temperature in those States. Warm weather is forecast to continue in the southern Plains States, the Mississippi Valley, and the eastern districts during the next several days.

The feature of the weather for the week ending June 25 was the hot wave in the Northwestern States during the first half of the week and in the Eastern States from Monday until Friday. Temperatures near or above the highest previously recorded in the month of June occurred Monday and Tuesday in Minnesota, North Dakota, South Dakota, Nebraska, and eastern Montana. Local rains occurred the latter half of the week in the Rocky Mountain region, the Plains States, and the upper Mississippi Valley.

### ADDITIONAL ALASKAN REPORTS.

Reports from three additional stations in Alaska during the year have materially aided in the preparation of the weekly forecasts. It is gratifying to learn that the Canadian Meteorological Service will shortly establish two new stations, one at Cochrane and the other at The Pas, thus extending the range of observations northward and enabling the forecaster to predict more accurately the sweep of cold waves and storms from that region.

## RIVER AND FLOOD DIVISION.

The administrative work of the River and Flood Division was of the usual description, having been largely devoted to improving the character of the personnel and securing increased efficiency and permanency of equipment. A number of special observers were separated from the service on account of incompetency and neglect of duty, and river gages were repaired or renewed where necessary. As a rule the spring floods damage or destroy many gages, necessitating a large outlay for renewals, but during the past spring the absence of severe floods permitted the application of a reasonable amount of money to the work of improvement. During the year a Marvin automatic gage was successfully installed at Parkersburg, W. Va., and it is proposed to install similar gages during the coming year at Des Moines, Iowa, and Sacramento, Cal., if the work of constructing the new bridges at those places shall have advanced sufficiently. A new river gage of the inclined concrete type was installed at Henderson, Ky., and contracts have been let for similar gages at Portsmouth, Ohio, and Mount Vernon, Ind. While the original cost of these concrete gages is considerable, it has been found that their permanency insures a profitable investment.

The uniform success that has attended the forecasting of the disastrous floods that occur at times in the Grand River of Michigan has led to the extension of the river service to the watershed of the Saginaw River in the same State, and it is thought that after the accumulation of some comparative data equally efficient service can be afforded in that section. The river district of Hannibal, Mo., was created during the year by assigning to it that portion of the St. Louis district lying between Hannibal and the mouth of the Des Moines River, and other changes of a minor character were made.

The great floods of the year were those of July in the Missouri River and its tributaries east of Kansas City and in the Mississippi River from Hannibal, Mo., to Chester, Ill.; that of November and December in the North Pacific States; and that of January in Utah and southern California, the last named being one of those rare occurrences known as a "desert flood." The floods of July overflowed about 1,000,000 acres of farm lands, of which two-thirds were under cultivation, with resulting loss of about $7,000,000, of which amount $5,500,000 were in crops. Along the Grand River of Missouri the flood was particularly severe, and the stages of water were the highest of record. The warnings issued by the Weather Bureau during this flood saved property to the value of $1,000,000 that otherwise would have been lost. The north Pacific floods of late November and early December were in the main mountain floods, caused by continuous warm, heavy rains and rapidly melting snows, and did damage to the amount of about $4,000,000. As it is not possible to maintain effective flood service along mountain streams, no specific warnings of these floods were possible, but general warnings were issued as soon as the conditions became threatening. The "desert flood" of January was caused by warm rains falling upon the heavy December snows, and the actual losses totaled at least $3,000,000, falling most heavily upon the railroads.

The spring flood in the Ohio River did not assume dangerous proportions, although in January the Wolf Creek ice gorge for a time created a very alarming situation below Louisville.

The daily forecasts for the navigable rivers are still an indispensable adjunct to the successful conduct of river steamboating.

The accuracy and timeliness of the river forecasts and warnings attained during previous years have been maintained, and there is reason for the belief that during the year just ended the groundwork was laid for still further improvement. The comments of the press and interested parties relative to the conduct of the work were uniformly commendatory, and their reproduction here would be but a repetition of those of former years.

The study of the Ohio River was continued, and forecast schemes were completed for the entire river, except for the section from Mount Vernon, Ind., to Cairo, Ill. The schemes for the Cumberland and Tennessee Rivers are well under way, and hopes are entertained that the entire scheme for the Ohio watershed will be completed during the coming year.

There is still need of some further extension in the line of direct flood work, notably in Oklahoma, Indiana, and Illinois, and along some of the upper tributaries of the Mississippi River, but little can be accomplished during the next fiscal year, as projects already under way will consume any funds that might otherwise have been available.

Over a year ago it was recognized that the approaching completion of the irrigation projects in the Far West by the Reclamation Service imposed new responsibilities upon the Weather Bureau, namely, the obtaining of accurate snow measurements at the sources of water supply, the determination of the water equivalent of the accumulated snows of winter, and the gaging of the streams for the benefit of the water users; and it has become a part of the duty of the River and Flood Division to determine as nearly as possible the amount of water that will be available each season for irrigating purposes. A sufficient supply of funds for the entire project has not yet been provided, but it has been proposed to conduct during the coming year at least one series of observations, probably in northern Utah, along certain definite lines. From the experience thus obtained it will be possible to pass intelligently upon the feasibility of the general plan and to prepare reasonable estimates of the annual cost of the entire project for submission to Congress. For a time, at least, this work must be limited to the smaller watersheds.

### EFFECTS OF FOREST ON CLIMATE AND STREAM FLOW.

There remains one other problem that will engage the special attention of the River and Flood Division. The widespread discussion during the last two or three years as to the effect of forest cover on climate, stream flow, etc., has developed such differences of opinion in the minds of those chiefly interested as to necessitate a searching inquiry into the subject. After an elaborate research into all available data, the Weather Bureau, in company with many eminent engineers, concludes that on the principal rivers the floods are not higher or longer

continued or the low water lower than 40 years ago, while other persons hold to the opposite. But there are other questions with regard to which all appear to agree that available data are at best insufficient; consequently, to quote from my report of February, 1910, to the Committee on Agriculture of the House of Representatives on "The influence of forests on climate and on floods:"

> We must therefore reason empirically from the best information at hand, and this insufficiency of data renders less positive the conclusions of all investigators, no matter which side of the question they may be on.

Therefore the Weather Bureau and the Forest Service, with the permission of the Secretary of Agriculture, have agreed to cooperate in an exhaustive study of the entire question of forest effects upon climate and stream flow, and have selected as a suitable field for operation the Rio Grande National Forest, in southwestern Colorado. Representatives of the Weather Bureau and the Forest Service are already in the field making preliminary arrangements, and active work will begin as soon as the Weather Bureau can supply and install the necessary equipment and the Forest Service can provide the necessary facilities. It is hoped to have the work well under way by August or September, 1910. Two watersheds of similar topography and of limited drainage areas have been selected, and the necessary weirs and instruments for the measurement of stream flow will be located at an approximate altitude of 9,500 feet above mean sea level, the drainage area extending upward to an elevation of about 10,500 feet.

It is proposed to measure the flow of the two streams for a sufficient period, probably 8 or 10 years, to demonstrate their behavior with equal forest cover. One of the watersheds will then be denuded and stream-flow measurements continued on both for another period of 8 or 10 years, by which time it is probable that the effects of the denudation, whatever they may be, can be stated in positive terms. In order that all the climatic factors that affect or modify stream flow may be considered, a complete equipment of meteorological instruments will be provided and observations will be taken several times daily. Automatic instruments will afford continuous and permanent records of pressure, temperature, wind direction and velocity, sunshine, precipitation, and evaporation.

The proposed period of observations is none too long, and in view of the possible influence of the investigation upon certain questions of public policy, and in the interests of scientific research, it may become necessary later on to extend it.

## INSTRUMENT DIVISION.

About 200 stations of the bureau are now fully equipped with recording instruments, 3,000 cooperative observers are supplied with maximum and minimum thermometers, rain gages, and instrument shelters, and about 150 stations are provided with steel towers and high-power oil or electric lanterns for the display of storm warnings.

The new stations at St. Joseph, Mo., and Lansing, Mich., at which Weather Bureau buildings have recently been erected, were fully equipped with standard sets of instruments during the year. The regular station at Brawley, Cal., maintained in connection with the observations on evaporation at the "Salton Sea," was closed in May, 1910, and the equipment transferred to the special station at Wagon Wheel Gap, Colo.

The kiosks installed a year ago in some of the large cities have proved very popular, and more requests for these structures have been received than it has been possible to grant. Six kiosks were purchased during the year; three have been erected at prominent points in Hartford, Duluth, and Richmond, but the work of installation at Indianapolis, Salt Lake City, and Atlanta is not yet completed.

## NEW WORK AND APPARATUS.

During the year Prof. Marvin perfected certain new methods of measuring the intensity of solar radiation in absolute units of heat by the use of the electrical resistance thermometer. So far as known, this method has never been employed heretofore. It seems to possess great advantages over customary forms of the pyrheliometer, owing especially to the fact that the thermal capacity of the apparatus can easily be determined from time to time in the ordinary course of observation. Such a check is quite impossible with ordinary instruments. The first

working apparatus of the new type has been turned over to Prof. Kimball and is being installed at Madison, Wis. Additional instruments are under construction for a few other stations where observations of solar radiation are particularly desired.

Last October the Weather Bureau was requested to pass upon a proposed simple plan of renewing and improving the protection of the White House from lightning. Prof. Marvin submitted a revised plan, prepared in accordance with the best modern ideas and practice, which elicited the special commendation of the engineer of public buildings and grounds having charge of the execution of the work.

A special form of inverted, astatic pendulum, devised and installed by Prof. Marvin in 1907, has since recorded earthquakes at the Weather Bureau in a very satisfactory manner. During the past year detailed drawings of an instrument of this type, adapted to record very destructive earthquakes, and having a possible maximum double amplitude of motion of 3 inches, was supplied to Prof. A. C. Lawson, of the University of California. The instrument is being made up at the shops of the university and will be installed in the special earthquake-proof vault provided for its new seismological equipment.

### IMPORTANCE OF SEISMOLOGICAL OBSERVATIONS.

It seems appropriate at this point to renew the recommendations made in previous years that the Weather Bureau be authorized to engage systematically in making seismological observations and publishing the results. People in general, and scientists especially, have become fully aroused to the great importance of this work, and it is now well known that, when full information is available, definite advice can be given as to where to locate and how to erect buildings so as to minimize or even entirely escape disastrous effects of earthquake disturbances. Repeated appeals have been made to Congress to authorize and provide for seismological work, but thus far without avail. The United States is now the only important nation in the world in which seismological studies are not being carried on under the auspices of the Government. This work requires an extensive system of outlying stations from which reports can be procured, and at a limited number of which seismographs can be installed and maintained. The Weather Bureau is the only branch of the Government already having numerous stations widely distributed over the country and maintaining a corps of highly trained observers on duty at all times. It also has a corps of about 4,000 cooperative observers whose services are available for simple reports of earthquake phenomena, such as can be procured without instrumental equipment. By reason of this extensive and fully organized service the bureau is peculiarly prepared to conduct seismological work in an effective manner, and at far less expense than would be possible through any of the other departments of the Government.

This was fully recognized by the seismological committee of the American Association for the Advancement of Science at a meeting held in Washington April 19, 1907, when it was definitely voted that the Federal Government should be then requested to support seismological work, and that appropriations therefor should be made through the Weather Bureau. This action of the committee was not only unanimous, but was heartily concurred in by the heads of all Government bureaus either directly or indirectly interested in the questions involved.

### CLIMATOLOGICAL DIVISION.

The issue of the Monthly Weather Review in its new form, begun July, 1909, was considerably delayed during the first part of the year, but has since been brought practically up to date. The publication of the National Weather Bulletin was continued as in past years, weekly during the crop-growing season and monthly at other times. Weekly summaries of the snow and ice conditions were issued regularly during the winter, as were also the snowfall bulletins from the mountain States of the West. The latter have been considerably enlarged, owing to the extension of the special snowfall stations into regions not heretofore covered by reports. A special effort will be made in March and April to give the public an idea of the amount and condition of the snow actually lying on the mountains just before warm weather sets it flowing into the streams. Weekly and monthly summaries of climatological data continue to be issued at the Iowa, Porto Rico, and Hawaii centers, as in the past, but the publication of these summaries for the remaining sections was discontinued with the issues for June, 1909.

The current work of preparing data for the Monthly Weather Review and the Annual Report of the Chief of Bureau, the tabulation of the usual data into the permanent records of the bureau, and the preparation of matter called for by numerous correspondents desiring information regarding the climate in various portions of the country, have been carried forward as usual.

The numerous requests for climatic data show an increasing knowledge of the information available for the public, and indicate the wide diversity of uses to which it is being put. Nearly 4,000 such requests received prompt attention during the year.

No material change has occurred in the cooperative work carried on by the bureau. Cooperation with other bureaus of the department and with the Geological Survey and Reclamation Service, in the gathering of information regarding the snowfall in the mountain regions of the West and the study of special problems in forestry and plant growth, has continued with apparently satisfactory results to all concerned.

The changes in the form of some of the current climatological publications of the Weather Bureau were made during the year in order to accommodate more fully than heretofore the requirements both of the public and of the General Government in developing the water resources of the United States, especially in connection with irrigation and transportation enterprises, as well as the many other public interests which have hitherto been served by these publications. Accordingly the material of which the Monthly Weather Review was formerly composed has been separated into two general parts: Technical articles on research problems in meteorology appear in the Mount Weather Quarterly Bulletin, while the more practical papers on engineering and commercial interests are still published in the Monthly Weather Review. Similarly, the data formerly published in the monthly section summaries are now arranged with reference to 12 climatological districts, conforming to the natural watersheds of the United States, and a district editor appointed to each district supervises the preparation of the material, which is finally assembled and printed in the Monthly Weather Review.

The Review in its present form is a strictly climatological journal. It contains, in addition to the current climatological history, occasional important papers on the relation of climate to agriculture, irrigation, transportation, and evaporation, the effects of forests on climate, and other similar contributions, but they are presented in a nontechnical manner as far as possible.

The plan of preparing and publishing climatological summaries, giving in some detail the vast amount of material that the Weather Bureau has been for many years collecting, has continued during the year. The entire United States will eventually be covered in these reports, which will be made up for 106 districts in all. Their publication is advancing rapidly and with the completion of the series, which will soon be accomplished, the public will have in form for ready reference the longer records of climatological data for all parts of the country.

### MEASUREMENTS OF SNOWFALL.

Since the water used during the summer for irrigation in those western districts where irrigation is practiced depends largely upon the snowfall on the mountains of that region, the importance of measuring the snowfall in remote places which are inaccessible during the winter has made it necessary to discover some means of automatically measuring the seasonal snowfall at places where no permanent observers can be obtained. Experiments have been carried out under the direction of Prof. F. H. Bigelow for this purpose. A large number of stations have been equipped with comparative apparatus as follows: (1) Snow bins, or cubical boxes, 5 feet on a side, standing on a frame so that the top is 10 feet above the ground; (2) standpipes, 10 inches in diameter and 10 feet high; (3) platforms, 10 feet square on the ground; (4) vertical scales, graduated in feet and tenths; and (5) the ordinary small snow gage used by the Weather Bureau for many years.

Observations made during the winter of 1909–10 indicate that the snow bins, fitted with a system of louvers on the inside to prevent the wind from blowing out the snow and to insure a level deposit within, catch very nearly the actual amount of fall. The standpipe fails to catch the right amount of snow by 20 per cent to 50 cent. The wind drifts the snow on or off the

platforms, making the measurements wholly unreliable. The catch of the small snow gages is also rendered imperfect by wind eddies, which blow around the opening of the cylinder and carry a portion of the snow past the mouth without depositing it. The vertical snow scales are placed against trees or posts to show the depth of the snow lying on the ground at a given time. Further experiments will doubtless soon develop the best practical form of apparatus.

EVAPORATION STUDIES.

The evaporation observations and studies, which were begun in 1907, have been continued during the year under the direction of Prof. Bigelow, who is now preparing a report summarizing these observations. A few facts taken from the records of observations at the "Salton Sea" will serve to show the magnitude of the problem under consideration. At tower No. 1, about 1,500 feet inland from the water, pan No. 1, on the ground, gave a total evaporation for the year of about 165 inches, and pan No. 5, 40 feet above the ground, 193 inches. At tower No. 2, 500 feet from the shore, pan No. 1 swings about 2 feet above the surface of the water, it having been found impossible to float the pans successfully without going to great expense. This pan evaporated about 108 inches during the year, and pan No. 5, 45 feet above the water, evaporated 137 inches. At tower No. 4, 1½ miles from the shore, pan No. 1, swinging about 2 feet above the water, evaporated 106 inches, and pan No. 5, 45 feet above the water, evaporated 140 inches. There was therefore a difference of about 30 inches of evaporation near the water surface of the sea and that taking place 40 feet higher.

The records from the United States Geological Survey indicate that the "Salton Sea" has been falling at the rate of about 55 inches annually for the past three years. While it is not known exactly how much water is flowing into the lake through the New and Alamo Rivers and from the precipitation on the neighboring country, it may be estimated that it is not over 15 inches, so that the total annual evaporation from the surface of the sea is probably about 70 inches.

Our experiments have shown that pans of different sizes evaporate at very different rates—a 2-foot pan being represented by the coefficient 0.042, a 4-foot pan by the coefficient 0.036, and a 6-foot pan by the coefficient 0.031. The pans on towers Nos. 2 and 4 were each 4-foot pans. It is not now known what the corresponding coefficient of evaporation is for the surface of the sea, but it is probably something like 0.027. If an allowance of 25 per cent is made for the probable coefficient between the 4-foot pan and the large surface of the sea, it would reduce the apparent evaporation to 90 inches. This will be further reduced by computations depending upon the temperature of the water of the sea probably to about 75 inches, which approximates the actual amount observed as above stated. These facts indicate how unsafe it has been to proceed from the observations on a pan placed upon the shore of a body of water to the corresponding water surface, and the necessity of the programme inaugurated by the Weather Bureau has been amply justified. It is hoped that the final report will be successful in clearing up this last part of the problem regarding the coefficient of evaporation on the large water surface. The formula first used at Reno, Nev., by Prof. Bigelow has been verified and proved efficient, working equally well in the dry regions of the West and the humid districts of the Eastern States. The wind coefficient is 0.070 instead of 0.0175 as first obtained at Reno. At that time it was not known that the size of the pan was so important in the phenomena of evaporation, and on that account it was not deemed necessary in the preliminary campaign to secure the wind coefficient with such precision. The cooperation with the Reclamation Service and the United States Geological Survey has been very important, and we have now secured corresponding observations at about 25 stations in the United States. These data, when published will give a very good idea of the amount of evaporation, but it is evident that the entire subject is one that will always need careful supervision. The wind effect is so powerful that in all cases an anemometer must be placed immediately at the evaporating pan, and the coefficient of evaporation is such that great caution must be used in making the transition from the evaporation on the shore to the corresponding evaporation over a large water surface. It seems probable that the same coefficient

of evaporation exists over the entire lake, except within a comparatively few feet of the shore, where land effect merges with the water effect.

It has been found by special experiments that the "Salton Sea" ceases to exercise any influence upon evaporation during the summer at a distance of about 1,000 feet from the shore. This would indicate that there is no effect of the sea by way of changing the climate of the country about its neighborhood.

The phenomena of evaporation should be developed fully in connection with forest and plant growth, and for this purpose the Weather Bureau is cooperating with the Forest Service at the Coconino Forest Experiment Station near Flagstaff, Ariz., and at Fremont, near Manitou, in Colorado.

### NEW TEMPERATURE NORMALS.

In Weather Bureau Bulletin S, "Report on the Temperatures and Vapor Tensions of the United States," the monthly mean temperatures reduced to a homogeneous system for about 33 years' record have been collected for stations having a long record, about 100 in all.

A series of 481 charts, covering the interval from January, 1873, to December, 1909, inclusive, with corresponding annual charts, has been prepared showing the monthly and annual temperature departures from these long-record normals for the United States. Copies of these charts are being printed, and when assembled will give a complete history of this important phenomenon for more than a third of a century. By using these charts the current short-record normals of any station may be corrected to the corresponding 33-year normal, and this will be undertaken later.

## MARINE DIVISION.

This division is charged with the ocean and lake meteorological work, the supervision of the wireless-telegraph weather service, and the work of the vessel-reporting service.

While the collection, compilation, computation, and publication of all ocean meteorological data from vessels traversing the oceans and lakes are by law under the Weather Bureau, a duplicate of the information published by the Weather Bureau has to be furnished to the Hydrographic Office of the Navy Department. The act making appropriations for the legislative, executive, and judicial expenses of the Government for the fiscal year ending June 30, 1911, provides that—

> Hereafter the pilot charts prepared in the Hydrographic Office shall have conspicuously printed thereon the following: "Prepared from data furnished by the Hydrographic Office of the Navy Department and by the Weather Bureau of the Department of Agriculture, and published at the Hydrographic Office under the authority of the Secretary of the Navy;" and all meteorological information received by the Weather Bureau of the Department of Agriculture necessary for and of the character of such information heretofore used in the preparation of the pilot charts shall continue to be furnished with all possible expedition to the Hydrographic Office for use in the preparation of said charts.

### COLLECTION AND DISTRIBUTION OF DATA.

The American consuls at 89 of the principal foreign ports have assisted the bureau in the distribution of marine forms, cloud and ocean charts, and pamphlets of instructions, and in the collection of meteorological observations from vessels.

The Weather Bureau marine centers are equipped with a standard mercurial barometer, thermometers, and shelter, and have a supply of all ocean meteorological forms, cloud charts, gnomonic charts, and meteorological charts. Assistants have been assigned to special duty in connection with marine work at New York, Philadelphia, and Seattle; at the latter point the official will have supervision over the entire traffic entering Puget Sound.

During the year 2,168 vessels of every nationality cooperated with the Weather Bureau in reporting pressure, temperature, wind, and other meteorological data, forwarding to the Marine Division in all about 10,000 weather report books. The data thus obtained are entered in the daily synoptic charts used in making the averages for the meteorological charts issued by the Weather Bureau and in preparing the information for the pilot charts issued by the Hydrographic Office.

Calendars containing useful information for captains and observers were distributed to all cooperating vessels, separate calendars being furnished for the Atlantic and Pacific oceans.

### CHARTS PREPARED AND ISSUED.

*Daily synoptic charts.*—The daily observations received from the vessels are entered on these charts, which are used in tracing storm tracks and in preparing statements of average conditions of wind and weather for publication in the pilot and meteorological charts.

*Pilot and meteorological charts.*—The entire data for the North Atlantic charts have been revised and are practically complete. These charts contain normals of pressure and temperature covering a period of 18 years; wind roses for 25 years, percentage of gales and calms for each 5° square and of fog for each 1° square of latitude and longitude, and trade-wind limits, all based on a large number of observations. On the back of the meteorological chart for September the origin and course of the West Indian hurricane of September 16–21, 1909, are graphically shown and its history briefly given.

The fog data on the North Atlantic chart have been extensively used by Mr. H. C. Thomson, engineer in charge of the survey for a short-line railway and steamship route to Europe, in his report to the governor general of Newfoundland and others interested. It is also noted that the English meteorological office has used our fog data and shading to a great extent on their North Atlantic chart.

The South Atlantic charts are published quarterly, and with the charts for the quarter for September–November the data are complete, being based on normals of pressure for 10 years, of temperature for 15 years, and of wind roses (direction and force with percentage of gales and calms) for 25 years, and on the average conditions of wind and weather and trade-wind limits.

The revision of the data for the North Pacific charts has been brought up to the year 1909. The charts now contain normals of pressure for 20 years, of temperature for 21 years, of wind roses (force and direction) for 25 years, and of the percentage of gales and calms and trade-wind limits, all deduced from a large number of observations for each 5° square of latitude and longitude. These charts will be revised each year and additional storm tracks entered thereon.

Work on the monthly charts of the Indian Ocean is under way. Beginning with the month of January, pilot and meteorological charts will be published containing data similar to that on the North Atlantic charts, including the paths of the more severe storms and the limits of fog.

The compilation of data for a meteorological chart of the Great Lakes is well in hand. With January, 1911, a monthly meteorological chart will be published containing all the meteorological features and the tracks of the more severe storms that have passed over that region each month for the last ten years.

In connection with the storm tracks traversing the North Pacific Ocean, I desire to invite attention to the kind cooperation of the Zikawei Observatory, in charge of Prof. Froc, in furnishing the results of the compiled data and study of Père H. Gauthier in portraying the approximate tracks of storms in the middle and higher latitudes of the North Pacific Ocean. The Hongkong Observatory has also given us valued material, while the India Observatory at Simla, India, the Australian meteorological service, the Weather Bureau of the Philippine Islands, and the meteorological service of Canada have kindly furnished all available data. Publications of the other meteorological services have been used for study and reference.

### WIRELESS TELEGRAPH SERVICE.

On account of the falling off in the number of vessels leaving San Francisco, very few wireless observations were received there during the year. The service to Portland, Oreg., has been continued throughout the year. From 20 to 75 reports are received each month at that station, but the official in charge states that only about 26 per cent are of benefit in his forecast work, the barometer readings and wind and weather being of most value. More than half of the

reports are received too late for use. These messages are sent and received without expense to the bureau, through the courtesy of the vessel captains, the United Wireless Co., and the naval wireless stations. Many of the reports are received at Katalla or Cordova, Alaska, and forwarded by cable free of cost.

### VESSEL REPORTING STATIONS.

In addition to their meteorological work the stations at Block Island, Cape Henry, Jupiter, Sand Key, Southeast Farallon, North Head, Point Reyes, Port Crescent, and Tatoosh Island are required to report all passing vessels, wrecks, and marine disasters and casualties, and to transmit all communications between masters, owners, underwriters, and others interested. The stations at Cape Henry, Jupiter, Sand Key, Southeast Farallon, Point Reyes, North Head, and Tatoosh Island are equipped for signaling by the international code, and are prepared to transmit messages by telegraph. Sand Key can also send and receive messages by flash light (Morse code). Each station, immediately upon sighting a vessel, sends a message to the owners and the maritime exchanges. All the stations cooperate with the Life-Saving Service in rendering assistance to wrecks and vessels in distress.

Cape Henry has 89 correspondents on its list, the telephone being used in reporting to Norfolk and Newport News. That office also cooperates with the Maryland Pilot Association, and such vessels as do not burn night signals are reported each morning by the pilot boats. All naval vessels are reported to Norfolk, and in some cases to the Navy Department at Washington. A daily list of vessels that pass is sent to the press in Norfolk. The office is kept open day and night. A flag is dropped at noon each day, giving the noon hour to the pilot boats and other vessels in the offing. A new code for communicating with tugboats of the Baltimore Chamber of Commerce that may be in the offing went into use in October, 1909. For night signaling purposes an acetylene plant will shortly be installed at Cape Henry.

During the year Block Island reported 15 passing vessels, Jupiter 542, North Head 1,643, Point Reyes 1,131, Port Crescent 334, Sand Key 1,552, Southeast Farallon 199, Tatoosh Island 2,368, and Cape Henry 19,755, making a total of 27,539 vessels. Often each message is sent to from three to six different interested parties, thus making the work enormous. In addition to this, Cape Henry reported 12 wrecks, and 725 vessel orders were received and delivered.

Only two complaints were made of poor service, and upon investigation they were found to be due to the fault of the vessel captains.

As an instance of the efficiency of the service, the observer at Point Reyes Light noticed that a vessel, the *Charles Wilson*, off the point, was rapidly drifting shoreward and was likely to be dashed against the rocks. He at once signaled the vessel, notified the San Francisco office of the Weather Bureau, and hoisted the distress signal and the signal "want tugboat." The steamboat *Dispatch* recognized the signals and went to the assistance of the helpless vessel.

Letters of commendation of the vessel-reporting service were received from the maritime exchanges at New York, Philadelphia, Baltimore, Norfolk, and Newport News. I will quote one from New York, others being similar in their nature:

> We wish to express our appreciation of the valuable services rendered by the Weather Bureau stations in reporting to us the movements of vessels, particularly the Cape Henry (Va.) and Jupiter (Fla.) stations. The observers at these stations are very capable men and fully understand our needs in the way of prompt and accurate reports of vessel movements.

### LIBRARY.

The additions to the library during the year numbered 1,291 books and separate pamphlets, all of which have been catalogued under author and subject. The total strength of the library is now well over 30,000 volumes.

The more important meteorological contents of about 100 scientific periodicals have been regularly catalogued under author and subject. As in previous years, select lists of the current additions to the catalogues of both books and periodical literature have been published regularly in the Monthly Weather Review, constituting a running bibliography of meteorology, climatology, and seismology.

The following is a retrospect of the more important literary events of the year in meteorology, as reflected in the growth of the library.

The only general treatise on meteorology that has appeared in America for several years was "Descriptive Meteorology," written by the chief of this bureau and published early in the spring. The Smithsonian Institution brought out Prof. Cleveland Abbe's "Mechanics of the Earth's Atmosphere—Third Collection," comprising translations and reprints of most of the substantial contributions to this subject in recent years, together with a few earlier memoirs of great interest. The British Meteorological Office published an English version of Hildebrandsson & Hellmann's "Codex of Resolutions Adopted at International Meteorological Meetings, 1872–1907," which places in compendious form the results of international cooperation extending over the past 35 years.

One of the most noteworthy publications of the year was the concluding installment of the only large modern treatise on atmospheric optics, viz, "Meteorologische Optik," begun by the late J. M. Pernter and completed by F. M. Exner.

Dr. J. Hann published the second part of the much-enlarged third edition of his "Handbuch der Klimatologie." Important climatographic works included many additional parts of the United States Weather Bureau's "Summary of the Climatological Data for the United States, by Sections." Two large works dealing with the climatography of whole countries were G. Roster's "Climatologia dell' Italia," and the text volume of "Das Klima der Schweiz," by Dr. J. Maurer and his official colleagues. Two more parts of the "Klimatographie von Österreich," dealing, respectively, with Styria and with the Tyrol and Vorarlberg, were issued by the K. K. Zentralanstalt für Meteorologie at Vienna. The winds of two countries were discussed, especially with a view to the requirements of aeronauts, in F. Eredia's "I venti in Italia" and R. Assmann's "Die Winde in Deutschland." A valuable contribution to the climatography of South Africa was published by E. Goetz in his "Rainfall of Rhodesia."

The rapid growth of aerology—the exploration of the free atmosphere—was represented by several notable works, including Gold & Harwood's report on "The Present State of our Knowledge of the Upper Atmosphere," presented at the Winnipeg meeting of the British Association; A. Wagner's "Temperaturverhältnisse in der freien Atmosphäre," issued as a double number of Beiträge zur Physik der freien Atmosphäre; a publication of the British Meteorological Office entitled "The Free Atmosphere in the Region of the British Isles;" and A. Berson's "Bericht über die aerologische Expedition des Königlichen Aeronautischen Observatoriums nach Ostafrika."

A work on weather forecasting that aroused much controversy was G. Guilbert's "Nouvelle méthode de prévision du temps." A new method of long-range forecasting was described by S. D. Griboiedov in a memoir published in Russian and presented at the National Congress of Meteorologists held last year in St. Petersburg. Of great interest to students of the history of meteorology was the translation of Seneca's "Quæstiones naturales," by J. Clarke, published under the title "Physical Science in the Time of Nero." A most useful bibliographic publication was the general author and subject index to the Meteorlogische Zeitschrift, volumes 1–25. Bibliographies of special topics included a reprint from the Monthly Weather Review of Mrs. G. J. Livingston's "Annotated Bibliography of Evaporation," and P. Brockett's "Bibliography of Aeronautics," the latter published by the Smithsonian Institution.

During the year the librarian visited several scientific and general libraries in Europe, including that of the Ufficio Centrale di Meteorologia, in Rome; the Laurentian Library, in Florence; and the library of the Royal Observatory of Belgium, at Uccle.

### EXAMINATIONS FOR PROMOTION.

The total number of examination papers received and rated during the year was 258, as compared with 223 during the preceding year. Following is the record in detail:

| Subject. | 1909 | | 1910 | | Total. | Passed. | Failed. |
|---|---|---|---|---|---|---|---|
| | August. | November. | February. | May. | | | |
| English grammar | 9 | 10 | 14 | 16 | 49 | 37 | 12 |
| Arithmetic | 4 | 10 | 14 | 8 | 36 | 27 | 9 |
| Elementary meteorology | 7 | 12 | 11 | 11 | 41 | 40 | 1 |
| Essay writing | 7 | 5 | 8 | 9 | 29 | 20 | 9 |
| Algebra | 4 | 4 | 5 | 4 | 17 | 15 | 2 |
| Physics | 3 | 3 | 6 | 10 | 22 | 21 | 1 |
| Trigonometry | 5 | 5 | 7 | 8 | 25 | 23 | 2 |
| Astronomy | 4 | 2 | 3 | 5 | 14 | 14 | 0 |
| Plant physiology | 1 | 3 | 2 | 4 | 10 | 10 | 0 |
| Advanced meteorology | 0 | 2 | 8 | 5 | 15 | 13 | 2 |
| Total | 44 | 56 | 78 | 80 | 258 | 220 | 38 |

### SCHOOL OF INSTRUCTION.

The work of instructing probationary appointees has continued along the lines pursued during the previous year, except that more attention has been given to map making, especially the making of stencil or milliograph maps.

By the time they have finished their course of preliminary instruction at the central office, the student observers have a fair idea of the method of handling official correspondence, and a number of them are quite proficient in sending and receiving telegraphic messages. Upon arriving at stations they are already qualified to make maps, take observations, prepare meteorological forms, and perform the various other station duties.

Thirty-six men received instruction during the past year, and all but eight had been given station assignments at its close.

### DISTRIBUTING DIVISION.

Owing to lack of funds the extension of forecast distribution during the year was much smaller than it would have been could advantage have been taken of the many favorable opportunities that from time to time were presented. At its close the number of places receiving forecasts at Government expense was 2,180. In recent years the greatest extension of forecast distribution has been made through the cooperation of telephone companies, and it has been mainly through such cooperation that the distribution has been maintained without impairment. In fact, notwithstanding the reduced number of distributing centers receiving the forecasts at Government expense, the forecasts have been made available to 537,000 more telephone subscribers than received the service at the close of the preceding year, the total number now being about 3,681,000. Funds not being available, advantage could not be taken of any of the opportunities afforded by the extension of the Rural Free Delivery Service of the Post Office Department.

The following table shows in detail the distribution of daily forecasts and special warnings in the several States by the various means employed:

DISTRIBUTION OF DAILY FORECASTS AND SPECIAL WARNINGS.

| State. | At Government expense. | | | Without expense to the United States by— | | | | |
|---|---|---|---|---|---|---|---|---|
| | Forecasts and special warnings. | Special warnings only. | Emergency warnings. | Mail. | Rural delivery. | Telephone. | Railroad train service. | Railroad telegraph. |
| Alabama | 35 | 3 | 139 | 1,232 | 781 | 13,195 | 0 | 66 |
| Arizona | 5 | 0 | 0 | 177 | 0 | 7,460 | 0 | 0 |
| Arkansas | 27 | 6 | 107 | 940 | 517 | 22,603 | 0 | 14 |
| California | 100 | 44 | 0 | 1,265 | 2,883 | 101,383 | 0 | 0 |
| Colorado | 11 | 62 | 38 | 923 | 914 | 36,138 | 0 | 0 |
| Connecticut | 10 | 0 | 48 | 1,401 | 50 | 72,300 | 138 | 1 |
| Delaware | 8 | 0 | 16 | 111 | 296 | 4,865 | 0 | 27 |
| District of Columbia | 0 | 0 | 0 | 1,725 | 0 | 20,000 | 0 | 1 |
| Florida | 35 | 113 | 52 | 1,010 | 220 | 8,268 | 0 | 69 |
| Georgia | 34 | 31 | 239 | 2,161 | 832 | 34,350 | 0 | 149 |
| Idaho | 15 | 1 | 0 | 613 | 200 | 13,680 | 0 | 0 |
| Illinois | 120 | 1 | 402 | 2,386 | 2,835 | 376,799 | 0 | 17 |
| Indiana | 117 | 1 | 221 | 2,347 | 1,818 | 175,466 | 0 | 71 |
| Iowa | 142 | 5 | 381 | 1,993 | 4,187 | 171,389 | 25 | 0 |
| Kansas | 94 | 1 | 175 | 1,015 | 2,310 | 306,709 | 0 | 51 |
| Kentucky | 44 | 32 | 84 | 1,843 | 806 | 47,565 | 0 | 1 |
| Louisiana | 77 | 23 | 49 | 644 | 143 | 17,034 | 0 | 18 |
| Maine | 13 | 1 | 39 | 1,151 | 802 | 14,406 | 0 | 0 |
| Maryland | 20 | 4 | 46 | 1,781 | 575 | 7,691 | 0 | 65 |
| Massachusetts | 16 | 11 | 58 | 3,108 | 210 | 9,450 | 77 | 0 |
| Michigan | 69 | 1 | 326 | 4,974 | 348 | 216,796 | 279 | 387 |
| Minnesota | 75 | 5 | 181 | 2,314 | 4,100 | 137,901 | 0 | 13 |
| Mississippi | 45 | 6 | 108 | 1,205 | 886 | 34,611 | 0 | 6 |
| Missouri | 31 | 1 | 146 | 3,436 | 2,121 | 304,347 | 0 | 52 |
| Montana | 12 | 21 | 13 | 408 | 50 | 5,911 | 0 | 0 |
| Nebraska | 75 | 1 | 217 | 1,141 | 408 | 210,717 | 0 | 0 |
| Nevada | 6 | 0 | 0 | 74 | 0 | 967 | 0 | 0 |
| New Hampshire | 14 | 0 | 33 | 910 | 1,409 | 2,397 | 15 | 0 |
| New Jersey | 23 | 18 | 105 | 1,220 | 106 | 27,778 | 0 | 179 |
| New Mexico | 11 | 1 | 0 | 78 | 0 | 3,541 | 0 | 8 |
| New York | 128 | 45 | 351 | 7,190 | 2,194 | 332,505 | 207 | 163 |
| North Carolina | 81 | 11 | 164 | 777 | 2,030 | 27,705 | 0 | 0 |
| North Dakota | 23 | 0 | 93 | 189 | 1,919 | 16,453 | 0 | 0 |
| Ohio | 81 | 169 | 310 | 5,880 | 830 | 540,137 | 24 | 34 |
| Oklahoma | 32 | 1 | 16 | 722 | 1,104 | 6,994 | 0 | 130 |
| Oregon | 9 | 1 | 0 | 458 | 183 | 16,465 | 0 | 0 |
| Pennsylvania | 86 | 11 | 137 | 3,814 | 1,718 | 160,459 | 1 | 449 |
| Rhode Island | 2 | 0 | 12 | 478 | 0 | 1,163 | 13 | 0 |
| South Carolina | 29 | 9 | 105 | 948 | 636 | 10,076 | 0 | 38 |
| South Dakota | 63 | 10 | 76 | 807 | 183 | 49,174 | 0 | 0 |
| Tennessee | 52 | 3 | 285 | 1,187 | 1,055 | 39,344 | 0 | 3 |
| Texas | 63 | 46 | 227 | 1,460 | 1,188 | 71,551 | 0 | 63 |
| Utah | 5 | 23 | 0 | 300 | 661 | 34,277 | 0 | 0 |
| Vermont | 13 | 0 | 44 | 483 | 461 | 20,461 | 12 | 0 |
| Virginia | 61 | 4 | 118 | 1,283 | 2,124 | 31,204 | 101 | 72 |
| Washington | 25 | 1 | 0 | 787 | 1,091 | 11,023 | 0 | 0 |
| West Virginia | 28 | 7 | 51 | 849 | 7 | 34,924 | 0 | 17 |
| Wisconsin | 108 | 6 | 306 | 2,520 | 2,110 | 55,063 | 0 | 0 |
| Wyoming | 7 | 2 | 8 | 128 | 0 | 6,710 | 0 | 0 |
| Total | 2,180 | 742 | 5,526 | 73,846 | 49,295 | 3,680,905 | 892 | 2,159 |

To show the status of the distributing work of the bureau in recent years, its growth, and by some methods its curtailment, the accompanying table has been prepared. From this statement it will be seen that the telephonic distribution has been materially increased, notwithstanding the decrease of 190 in the number of stations receiving forecasts at Government expense. The mail distribution has, however, suffered a slight decrease.

| Year. | At Government expense. | | | Without expense to the United States by— | | | | |
|---|---|---|---|---|---|---|---|---|
| | Forecasts and special warnings. | Special warnings only. | Emergency warnings. | Mail. | Rural delivery. | Telephone. | Railroad train service. | Railroad telegraph. |
| 1903–4 | 2,076 | 983 | 6,152 | 77,605 | 83,639 | 152,302 | 2,423 | 2,655 |
| 1904–5 | 2,158 | 973 | 6,152 | 77,774 | 75,602 | 464,738 | 2,423 | 2,443 |
| 1905–6 | 2,150 | 767 | 5,998 | 76,719 | 82,466 | 1,014,285 | 2,514 | 2,145 |
| 1906–7 | 2,280 | 734 | 5,998 | 78,109 | 71,300 | 1,985,905 | 1,423 | 2,134 |
| 1907–8 | 2,334 | 690 | 5,998 | 76,154 | 58,008 | 3,553,067 | 852 | 2,139 |
| 1908–9 | 2,370 | 782 | 5,998 | 77,563 | 53,402 | 3,143,985 | 883 | 2,305 |
| 1909–10 | 2,180 | 742 | 5,526 | 72,121 | 49,295 | 3,680,905 | 892 | 2,159 |

It is estimated that of the $260,000 appropriated for telephone rentals, telegraphing, etc., for the year 1909–10 the bureau expended in distribution of daily forecasts and special warnings and for storm-warning messages approximately $73,000, or about 28 per cent, of which 25 per cent was used for the daily forecast service and 3 per cent for special warnings of cold waves and frosts and for storm-warning messages.

### STORM-WARNING DISPLAY STATIONS.

A storm-warning display station was established at Rockport, Mass., and arrangements were completed for the establishment of two others, one at Grand Marais, Minn., and one at Singers Island, Mich. Three cooperative storm-warning display stations, viz, Everett, Wash., Neah Bay, Wash., and Vermilion, Ohio, were changed to a paid basis. One paid and nine cooperative stations were discontinued. Those discontinued were stations at which the information could be as readily and conveniently obtained from near-by sources. The station at Rockport, Mass., has supplied an important need, and the proposed stations in the western Lake Superior region will undoubtedly prove valuable additions to the system of storm-warning display stations.

The storm-warning display stations received the usual careful attention, 130 having been inspected during the year.

A circular was issued to all storm-warning distributing centers on the Atlantic and Gulf coasts at the close of the year, having for its object a revival of interest in the plan of disseminating information regarding hurricanes, with special reference to warning people living in districts in which unusually high tides might cause loss of life and property.

The following statement gives the number of stations, arranged under district centers, receiving storm warnings:

| Centers. | Paid stations. | Cooperative stations. | Weather Bureau stations. | Naval wireless stations. |
|---|---|---|---|---|
| Alpena, Mich. | 6 | 0 | 1 | 0 |
| Atlantic City, N. J. | 0 | 4 | 1 | 0 |
| Baltimore, Md. | 3 | 1 | 0 | 0 |
| Block Island, R. I. | 1 | 0 | 1 | 0 |
| Boston, Mass. | 24 | 7 | 2 | 4 |
| Buffalo, N. Y. | 11 | 1 | 1 | 0 |
| Cape May, N. J. | 1 | 0 | 0 | 0 |
| Charleston, S. C. | 5 | 1 | 1 | 0 |
| Chicago, Ill. | 25 | 2 | 1 | 1 |
| Cleveland, Ohio. | 10 | 0 | 1 | 0 |
| Corpus Christi, Tex. | 2 | 0 | 1 | 0 |
| Detroit, Mich. | 0 | 1 | 1 | 0 |
| Duluth, Minn. | 5 | 0 | 1 | 0 |
| Eastport, Me. | 0 | 1 | 1 | 0 |
| Erie, Pa. | 1 | 0 | 1 | 0 |
| Escanaba, Mich. | 2 | 0 | 1 | 0 |
| Eureka, Cal. | 0 | 1 | 1 | 1 |
| Galveston, Tex. | 4 | 4 | 1 | 0 |
| Grand Haven, Mich.[1] | 0 | 0 | 1 | 0 |
| Green Bay, Wis.[1] | 0 | 0 | 1 | 0 |
| Houghton, Mich. | 2 | 2 | 1 | 0 |

[1] Not centers.

| Centers. | Paid stations. | Cooperative stations. | Weather Bureau stations. | Naval wireless stations. |
|---|---|---|---|---|
| Jacksonville, Fla. | 6 | 11 | 1 | 0 |
| Jupiter, Fla. | 1 | 0 | 1 | 0 |
| Key West, Fla. | 0 | 0 | 2 | 0 |
| Los Angeles, Cal. | 1 | 3 | 0 | 0 |
| Marquette, Mich. | 1 | 0 | 1 | 0 |
| Milwaukee, Wis. | 9 | 0 | 1 | 0 |
| Mobile, Ala. | 4 | 2 | 1 | 0 |
| Nantucket, Mass.[1] | 0 | 0 | 1 | 0 |
| New Haven, Conn. | 2 | 0 | 1 | 0 |
| New Orleans, La. | 3 | 1 | 1 | 0 |
| New York, N. Y. | 5 | 3 | 2 | 2 |
| Norfolk, Va. | 6 | 6 | 4 | 1 |
| Oswego, N. Y.[1] | 0 | 0 | 1 | 0 |
| Pensacola, Fla. | 4 | 0 | 1 | 0 |
| Philadelphia, Pa. | 3 | 0 | 2 | 0 |
| Port Huron, Mich. | 4 | 1 | 1 | 0 |
| Portland, Me. | 3 | 2 | 1 | 0 |
| Portland, Oreg. | 9 | 3 | 6 | 0 |
| Providence, R. I. | 1 | 0 | 1 | 0 |
| Rochester, N. Y.[1] | 0 | 0 | 1 | 0 |
| San Diego, Cal. | 0 | 2 | 1 | 1 |
| Sandusky, Ohio [1] | 0 | 0 | 1 | 0 |
| San Francisco, Cal. | 2 | 5 | 4 | 3 |
| San Juan, P. R. | 0 | 0 | 0 | 2 |
| Sault Ste. Marie, Mich. | 5 | 0 | 1 | 0 |
| Savannah, Ga. | 4 | 1 | 1 | 0 |
| Tampa, Fla. | 3 | 2 | 1 | 0 |
| Toledo, Ohio [1] | 0 | 0 | 1 | 0 |
| Wilmington, N. C. | 3 | 2 | 1 | 0 |
| Total. | 181 | 69 | 61 | 15 |

[1] Not centers.

### STATION PUBLICATIONS.

Early in 1910 the policy was adopted of discontinuing the station weather maps wherever the newspapers would undertake their publication. The announcement of this purpose met with a cordial response from the press. The first "commercial weather map," as it has been called, was published in the Minneapolis Journal on March 1. Within the four months following its publication has been extended to 65 morning and evening papers in 45 cities, while 55 additional stations will introduce the method as soon as suitable outfits can be supplied, which will probably be during the coming August. By this plan of publication the weather chart is placed before the public twice daily, and reaches millions of people where it reached thousands before. Some opposition to the plan has naturally been experienced in a few quarters where special purposes were served by the somewhat more elaborate charts formerly issued, but for purposes of study or for permanent file, the large Washington map remains available to those willing to pay its subscription price. I have no doubt that the change has resulted in vastly increasing the benefits of the map to the public in general, while the saving effected by discontinuing the printing at Government expense will permit the extension of the work of the bureau along other lines of usefulness.

The publication of the daily weather bulletin has been continued at all stations heretofore issuing this form of report, with materially increased editions.

### EXAMINATION OF METEOROLOGICAL FORMS.

The principal record kept at Weather Bureau stations and the record kept by cooperative observers are examined, and the accuracy of the data verified or corrected, by the examining force of the Distributing Division. These records were received, examined, and verified or corrected for 195 Weather Bureau stations and more than 3,600 cooperative stations.

### TELEGRAPH DIVISION.

The telegraph and telephone lines operated by the Weather Bureau have been kept in good order without any general repairs having been made.

The line from Port Crescent to Tatoosh Island, Wash., worked better than ever before. The line from San Francisco to Point Reyes is in poor condition, but as there is a commercial telephone line from San Francisco to Inverness, which is but a short distance from our station at Point Reyes, it may be cheaper to make some arrangement with the Pacific States Telephone and Telegraph Co. to pay them regular tolls on each message sent between San Francisco, Mount Tamalpais, and Point Reyes and do away with the Government wire altogether. This would save the rental of leased wires between San Francisco and Mill Valley, as well as the expense of keeping the line in order.

The lines and cables from Charlevoix to Beaver Island, Mich., and from Glen Haven to South and North Manitou Islands, Mich., have been kept in good working order by the life-saving crews without expense to the Weather Bureau, except for material. The cable between Charlevoix and Beaver Island was broken by the United States dredge *Gen. Gillespie* on August 24, 1909, and was repaired four days later at small cost, the life-saving crew assisting.

The line from Alpena to Thunder Bay and Middle Island, Mich., has been kept in good working order, but the poles are now 17 years old and will shortly require cutting off and resetting, and in some places new poles will have to be furnished.

The submarine cable from Key West to Sand Key, Fla., has worked satisfactorily the entire year without repairs.

The line from Norfolk, Va., to Hatteras, N. C., has been kept in good order during the entire year. The life-saving crews, every 5 miles apart from Cape Henry to Hatteras, have rendered prompt and valuable assistance in this work.

The Block Island line has worked excellently during the entire year and has been maintained with slight expense.

The arrangements with the different commercial telegraph companies for handling the daily weather reports throughout the world have been very satisfactory. The average time of transmission to the central office from all points is about one hour.

The work of auditing the telegraph and telephone accounts of the bureau is well up to date. The Government receipts from all lines for commercial messages handled during the year were $1,710.66.

The requests for additional weather reports by telegraph from the various observing stations were unusually numerous, exceeding those for any single year in the previous history of the bureau. While public requirements in this respect have been met as far as possible by a reorganization of the bureau's system of "circuit" reports, the demands were more than could be satisfied with the present fund available for telegraphic expenses.

### PUBLICATIONS DIVISION.

The Publications Division has continued to print and to supply to stations the necessary blank forms, maps, and cards, and has continued the issue of the regular publications of the bureau, such as the daily weather map, the Monthly Weather Review, the Bulletin of the Mount Weather Observatory (quarterly), the National Weather Bulletin (weekly and monthly), and the Snow and Ice Bulletin (during the winter season). As heretofore, the Government Printing Office has done all the binding required by the bureau, and has also printed a few reports that could be more economically handled there.

The material change that was made in the character of the Monthly Weather Review during the year added so largely to its mechanical work that it became necessary to install a larger folding machine and an equipment of type-setting machinery. This permits a more rapid output of the printing office and has improved the typographical appearance of the work.

### DIVISION OF SUPPLIES.

In conformity with an executive order effective July 1, 1909, all supplies for the bureau not covered by special department contracts for articles of a technical nature were purchased, so far as listed, under the contracts prepared by the general supply committee. As this inaugurated a system of unifying and standardizing the miscellaneous supplies used in common by all of the Executive Departments, and involved the setting aside of individual preferences, some friction developed during the first year of its practical application, though in this bureau to a less degree than might reasonably have been expected. In some instances out-of-town contractors declined to fill small orders; in others the articles under contract were inferior in quality or unsuitable to the purpose for which they were desired; and as no samples were furnished by the committee, it was impossible to determine whether or not such articles were up to their accepted samples. List prices with three or four discounts were also a constant source of vexation. These and other incongruities were brought to the attention of the committee when occasion offered. It is believed that there will be fewer difficulties of this character experienced hereafter.

Most of the technical supplies heretofore covered by the departmental contracts were included in the general contracts for the coming year.

### OBSERVATORY BUILDINGS.

The main observatory building of the Weather Bureau at Mount Weather, Va., has been completed and was first occupied on February 12, 1910. It is practically a fireproof structure, especially designed to meet the requirements of the bureau for office and living quarters for the investigators and employees on duty at the research observatory. The building replaces the one that was destroyed by fire on October 23, 1907, and it is the last structure that will be required at that point for the present.

The observatory building located on Sand Key, Fla., a few miles from Key West, was completely destroyed by a hurricane on October 11, 1909. Congress has made appropriation for the reconstruction of the building, the plans of which are now in course of preparation, and it is hoped that this work will be completed before January 1, 1911. The proposed building will be composed of concrete, with a foundation of concrete piles driven into the solid rock. It is believed that this type of building will withstand future hurricanes and will involve a minimum cost for maintenance.

Seven observatory buildings were authorized in the appropriation bill for the fiscal year 1909. They were erected at Abilene, Tex., Canton, N. Y., Dodge City, Kans., East Lansing, Mich., Northfield, Vt., Richmond, Va., and St. Joseph, Mo., during the past year and are now occupied.

The following table shows where the buildings owned by the Weather Bureau are located, the fiscal years in which they were erected, and the cost of the buildings and grounds:

BUILDINGS OWNED BY THE WEATHER BUREAU.

| Location. | Erected. | Cost of ground. | Cost of buildings. | Total cost. |
|---|---|---|---|---|
| Abilene, Tex. | 1909 | $2,000.00 | $12,841.81 | $14,841.81 |
| Amarillo, Tex. | 1903 | 1,255.00 | 6,503.00 | 7,758.00 |
| Anniston, Ala. | 1907 | 1,799.75 | 12,920.69 | 14,720.44 |
| Atlantic City, N. J. | 1902 | [1] | 5,991.00 | 5,991.00 |
| Bentonville, Ark. | 1906 | 500.00 | 5,119.90 | 5,619.90 |
| Birmingham, Ala. | 1907 | [7] 61.50 | 15,630.36 | 15,691.86 |
| Bismarck, N. Dak. | [2] 1899 | [1] | 10,085.99 | 10,085.99 |
| Block Island, R. I. | 1904 | 1,034.50 | 7,668.25 | 8,702.75 |
| Burlington, Vt. | 1906 | [7] 20.00 | 10,043.50 | 10,063.50 |
| Canton, N. Y. | 1909 | [7] 1.35 | 14,135.20 | 14,136.55 |
| Cape Henry, Va. | 1902 | [1] | 9,222.45 | 9,222.45 |
| Charles City, Iowa. | 1907 | 3,036.75 | 9,338.47 | 12,375.22 |

[1] Government reservation.
[2] Remodeled.
[3] Begun in 1905.
[4] Begun in 1903.
[5] Begun in 1907.
[6] Building and ground purchased as a whole.
[7] Donated; figures represent cost of title transfer.
[8] Destroyed by a hurricane Oct. 11, 1909.
[9] Additional ground purchased.

BUILDINGS OWNED BY THE WEATHER BUREAU—Continued.

| Location. | Erected. | Cost of ground. | Cost of buildings. | Total cost. |
|---|---|---|---|---|
| Columbia, S. C. | 1905 | $3,799.00 | $9,165.00 | $12,964.00 |
| Devils Lake, N. Dak. | 1904 | 2,209.05 | 7,431.50 | 9,640.55 |
| Dodge City, Kans. | 1909 | 2,050.00 | 10,837.62 | 12,887.62 |
| Duluth, Minn. | 1904 | 2,041.70 | 7,430.68 | 9,472.38 |
| East Lansing, Mich. | 1909 | [7] 11.35 | 12,781.04 | 12,792.39 |
| Hatteras, N. C. | 1902 | [1] [9] 217.00 | 4,889.75 | 5,106.75 |
| Havre, Mont. | 1904 | 1,795.00 | 5,087.08 | 6,882.08 |
| Iola, Kans. | 1907 | 2,241.25 | 9,730.94 | 11,972.19 |
| Jupiter, Fla. | 1902 | ([1]) | 6,346.90 | 6,346.90 |
| Key West, Fla. | 1903 | 2,020.00 | 7,994.75 | 10,014.75 |
| Kittyhawk, N. C. | [2] 1902 | ([1]) | 1,616.00 | 1,616.00 |
| La Crosse, Wis. | 1907 | 3,523.50 | 12,276.24 | 15,799.74 |
| Modena, Utah. | 1903 | ([1]) | 4,346.00 | 4,346.00 |
| Mount Weather, Va.: | | | | |
| Administration building. | 1909 | 1,863.15 | 48,035.26 | 49,898.41 |
| Machine shop and balloon shed. | 1904 | 650.00 | 8,167.00 | 8,817.00 |
| Central heating and power plant. | 1909 | ([1]) | 11,964.74 | 11,964.74 |
| Absolute building. | [3] 1906 | ([1]) | 7,000.00 | 7,000.00 |
| Variation building. | [3] 1906 | ([1]) | 8,904.55 | 8,904.55 |
| Stable. | 1903 | ([1]) | 1,900.00 | 1,900.00 |
| Barn. | 1905 | ([1]) | 900.00 | 900.00 |
| Cottage for workmen. | [2] 1905 | ([1]) | 1,300.00 | 1,300.00 |
| Physical laboratory. | [4] 1909 | ([1]) | 37,521.51 | 37,521.51 |
| Cottage and office. | [5] 1909 | ([1]) | 11,246.34 | 11,246.34 |
| Nantucket, Mass. | 1905 | ([8]) | 4,728.53 | 4,728.53 |
| Narragansett Pier, R. I. | 1904 | 4,151.75 | 8,036.50 | 12,188.25 |
| Northfield, Vt. | 1909 | [7] 101.00 | 12,795.64 | 12,896.64 |
| North Head, Wash. | 1902 | ([1]) | 3,820.13 | 3,820.13 |
| North Platte, Nebr. | 1906 | ([6]) | 3,818.50 | 3,818.50 |
| Oklahoma, Okla. | 1906 | [7] 38.90 | 10,520.25 | 10,559.15 |
| Peoria, Ill. | 1905 | [7] 54.00 | 7,875.50 | 7,929.50 |
| Point Reyes Light, Cal. | 1902 | ([1]) | 2,875.00 | 2,875.00 |
| Port Crescent, Wash. | 1902 | 102.00 | 730.94 | 832.94 |
| Richmond, Va. | 1909 | [7] 8.75 | 15,489.01 | 15,497.76 |
| St. Joseph, Mo. | 1909 | 5,040.95 | 16,882.80 | 21,923.75 |
| Sand Key, Fla. | 1903 | ([1]) | ([8]) | ([8]) |
| Sault Ste. Marie, Mich. | 1899 | ([1]) | 2,994.12 | 2,994.12 |
| Sheridan, Wyo. | 1907 | 2,021.75 | 12,089.30 | 14,111.05 |
| Southeast Farallon, Cal. | 1903 | ([1]) | 5,211.22 | 5,211.22 |
| Springfield, Ill. | 1906 | ([1]) | 10,236.50 | 10,236.50 |
| Tatoosh Island, Wash. | 1902 | ([1]) | 5,000.00 | 5,000.00 |
| Washington, D. C. | ..... | ([6]) | 174,950.79 | 174,950.79 |
| Yellowstone Park, Wyo. | 1904 | ([1]) | 11,156.00 | 11,156.00 |
| Yuma, Ariz. | [2] 1903 | ([1]) | 1,500.00 | 1,500.00 |
| Total. | ..... | 43,648.95 | 667,084.25 | 710,733.20 |

[1] Government reservation.
[2] Remodeled.
[3] Begun in 1905.
[4] Begun in 1903.
[5] Begun in 1907.
[6] Building and ground purchased as a whole.
[7] Donated; figures represent cost of title transfer.
[8] Destroyed by a hurricane Oct. 11, 1909.
[9] Additional ground purchased.

BUILDINGS RENTED BY THE WEATHER BUREAU FOR LIVING AND OBSERVATORY PURPOSES.

| Station. | Annual rent. | Other items included. |
|---|---|---|
| Alpena, Mich. | $650 | Heat, light, water. |
| Cape May, N. J. | 650 | |
| Clallam Bay, Wash. | 120 | Water. |
| Del Rio, Tex. | 444 | Heat, light, water. |
| Durango, Colo. | 318 | Water. |
| Flagstaff, Ariz. | 420 | |
| Helena, Mont. | 624 | Steam heating plant, water. |
| Honolulu, Hawaii. | 1,020 | Six rooms; heat, cleaner, light, janitor, and porter service, electric current for fan, storage. |
| Independence, Cal. | 456 | Water for domestic and irrigation purposes, and the trimming and care of all trees on the premises. |
| Kalispell, Mont. | 360 | |
| Lewiston, Idaho. | 540 | |
| Manteo, N. C. | 144 | |
| Moorhead, Minn. | 600 | Heat, light, water. |

BUILDINGS RENTED BY THE WEATHER BUREAU FOR LIVING AND OBSERVATORY PURPOSES.

| Station. | Annual rent. | Other items included. |
|---|---|---|
| Mount Tamalpais, Cal | $420 | Heat, light, water, and the free transportation of Government employees and supplies. |
| Pysht, Wash | 144 | Water. |
| Roseburg, Oreg | 550 | Heat, light, water. |
| Roswell, N. Mex | 720 | Heat, cleaner, light. |
| San Juan, P. R | 600 | Ten rooms. |
| Thomasville, Ga | 420 | |
| Tonopah, Nev | 840 | |
| Twin, Wash | 108 | Water. |
| Williston, N. Dak | 510 | Heat, cleaner, light, water. |
| Winnemucca, Nev | 480 | Heat, light, water. |
| Total | 11,138 | |

## PERSONNEL OF THE BUREAU.

The total numerical strength of the bureau at the close of the fiscal year was 6,895. Of this number more than two-thirds rendered service without compensation other than through the free receipt of Government publications. The increase of 285 over the figures given at the close of the preceding year was mainly due to the employment of observers in connection with the extension of mountain snowfall investigation in the Western States, although more than a hundred were added to the lists of special meteorological observers and cooperative observers and correspondents; the number of employees engaged in the remaining lines of work remained practically unchanged.

The distribution of the 792 commissioned employees of the bureau gave 210 to the central office at Washington and 582 to the stations throughout the country. This represents an increase of 6 and 14, respectively, in the record of similar assignments for the close of the preceding 12 months. At the central office the distribution of the employees among the several divisions remained practically as in the year before, except in the Publications Division, where an increase in the amount of printing necessitated an addition of 5 to the working force. At stations the transfer of the climatological work from Galveston to another point and the curtailment of special evaporation studies at Salt Creek Bridge, Cal., caused the working force at each of these stations to be reduced by 3, while at a number of other points the force was lessened by 1 man through transfers to stations where the demands for additional help had become imperative. It is a fact that both in the central office and at stations the increase in the number of employees has not been proportionate to the increase in work; in other words, the operations of the Weather Bureau have been so enlarged during the past year as to require more work than formerly from each member of its commissioned force, despite the fact that the number was increased by 20 during that period.

In the classified service of the bureau there were 4 more permanent appointments, including those effected by transfer and reinstatement, and 7 more temporary appointments than in the preceding year. The promotions during the same period—52 at the central office and 129 at stations—were fewer by 59 than in the year before. All promotions but 5 were made to the next higher grade; of the exceptions noted, 4 resulted through the assignment of especially meritorious employees to charge of important stations in large cities, where the enlarged duties and responsibilities called for appreciable increases in compensation, and the remaining instance was that of a central office employee possessing particular qualifications for the duties to which assigned. There were 53 voluntary resignations in the classified service during the year, or 11 more than in the preceding 12 months. By far the larger part was in the subclerical force, especially among the messengers and messenger boys, which was to have been expected, a less stability naturally belonging to the lower and less remunerative grades than elsewhere. A loss of 8 recently appointed assistant observers through resignation, however, was larger than looked for, and, in view of the time and attention required in their preliminary training, worked to the disadvantage of the bureau. In order to better this condition recommendation was made to the Civil Service Commission, and favorably acted upon, that only unmarried men be

eligible for appointment as assistant observers, owing to the low entrance salary as well as to the fact that in the earlier years of their service these appointees are liable to be moved from station to station frequently and at short notice. Of the 103 probationary appointments made during the year all but 3 successfully completed the six months' trial period. Nine undesirable employees were eliminated from the classified service during the year and 23 reductions were made by way of necessary discipline or for other sufficient reasons.

In the unclassified service there were 5 permanent and no temporary appointments, as compared with 6 permanent and 1 temporary for the preceding year.

The absence record differed but slightly from that for the calendar year preceding, there having been a fraction of a day less, both for sickness and for annual leave, the average for the entire service considered.

There were 8 deaths in the commissioned force of the bureau, as against 3 for the year before. The list includes Prof. Edward B. Garriott, through whose death, on May 13, 1910, the bureau lost one of its most valued officials and the science of meteorology an able investigator and enthusiastic student. Prof. Garriott had for years been in charge of the forecast division of the central office.

## CHANGES IN THE FORCE OF THE BUREAU.

CLASSIFIED SERVICE.

| | |
|---|---|
| Appointments: | |
| Probationary— | |
| Compositors, at $1,250 | 4 |
| Printers, at $1,000 | 5 |
| Skilled mechanic, at $1,000 | 1 |
| Clerk, at $900 | 1 |
| Assistant observers, at $720 | 41 |
| Carpenter, at $720 | 1 |
| Repairman, at $720 | 1 |
| Watchman, at $720 | 1 |
| Fireman, at $720 | 2 |
| Folders and feeders, at $630 | 3 |
| Skilled laborers, at $450 | 3 |
| Messenger boys, at $450 | 3 |
| Messenger boys, at $360 | 37 |
| | 103 |
| Transfer— | |
| Engineer, at $1,200 | 1 |
| Printer, at $1,000 | 1 |
| Messenger, at $600 | 1 |
| | 3 |
| Reinstatement— | |
| Printers, at $1,000 | 2 |
| Assistant observers, at $1,000 | 2 |
| Assistant observer, at $720 | 1 |
| Messenger, at $600 | 1 |
| Messenger boy, at $480 | 1 |
| | 7 |
| Temporary— | |
| Compositor, at $1,500 | 1 |
| Compositors, at $1,250 | 5 |
| Clerks, at $900 | 3 |
| Repairmen, at $720 | 2 |
| Fireman, at $720 | 1 |
| Folders and feeders, at $630 | 2 |
| Messenger boys, at $600 | 2 |
| Messenger, at $480 | 1 |
| Skilled laborer, at $450 | 1 |
| Messenger boys, at $450 | 3 |
| Messenger boys, at $360 | 27 |
| Evaporation observer, at $3 a day | 1 |
| | 49 |

| | |
|---|---|
| Promotions (all promotions except 5 were to the next higher grade or by certification for advancement from subclerical positions) | 201 |
| Reductions: | |
| Causes— | |
| To grant assignment to preferred station | 3 |
| To grant assignment to preferred work | 2 |
| Necessitated by assignment to station duty | 3 |
| Necessitated by employee's return to duty from leave of absence without pay | 1 |
| Necessitated by civil-service ruling | 1 |
| Decreased efficiency due to increasing age | 4 |
| Physical disability | 1 |
| Absence without authority | 1 |
| Unsatisfactory services | 7 |
| | 23 |
| Resignations: | |
| Voluntary | 53 |
| Required because of— | |
| Unsatisfactory services | 6 |
| Unsatisfactory services and conduct | 2 |
| | 61 |
| Transferred to the office of the Secretary of Agriculture | 1 |
| Removals: | |
| Causes— | |
| Absence without authority | 1 |
| Unsatisfactory services | 1 |
| Unsatisfactory conduct | 2 |
| Indecent conduct | 1 |
| Gross impudence | 1 |
| Theft | 1 |
| Physical disability | 1 |
| Physical disability and unreliability | 1 |
| | 9 |
| Dropped from the rolls at termination of probationary period because of unsatisfactory services | 3 |
| Deaths | 8 |

UNCLASSIFIED SERVICE.

| | |
|---|---|
| Appointments: | |
| Permanent— | |
| Unclassified laborer, at $480 | 1 |
| Student assistants, at $300 | 3 |
| Charwoman, at $240 | 1 |
| | 5 |
| Promotion (to the next higher grade) | 1 |
| Resignations: | |
| Voluntary | 3 |
| Required because of— | |
| Unsatisfactory services | 1 |
| Unsatisfactory conduct | 1 |
| | 5 |
| Removal: | |
| Cause— | |
| Position filled by a classified employee | 1 |

ABSENCE.

AVERAGE NUMBER OF DAYS PER EMPLOYEE DURING CALENDAR YEAR 1909.

| | Sickness. | Annual leave. |
|---|---|---|
| Station (99 per cent males) | 1.0 | 7.2 |
| Washington, D. C.: | | |
| Males | 5.4 | 24.6 |
| Females | 7.8 | 26.0 |
| Entire service | 2.2 | 11.7 |

## STATISTICS OF THE SERVICE.

The following tables show the numerical strength of the bureau and the highest, lowest, and average salaries paid in the commissioned grades:

NUMERICAL STRENGTH OF THE WEATHER BUREAU JUNE 30, 1910.

| | | |
|---|---|---|
| At Washington, D. C.: | | |
| Classified | 199 | |
| Unclassified | 11 | |
| | | 210 |
| Outside of Washington, D. C.: | | |
| Classified | 566 | |
| Unclassified | 16 | |
| | | 582 |
| Total commissioned employees | | 792 |
| Additional employees outside of Washington, D. C.: | | |
| Storm-warning displaymen | 181 | |
| River observers | 392 | |
| Cotton-region observers | 117 | |
| Corn and wheat region observers | 130 | |
| Rainfall observers | 107 | |
| Sugar and rice region observers | 7 | |
| Special meteorological observers | 74 | |
| Special cranberry-marsh observers | 4 | |
| Special snow and ice observers | 4 | |
| Mountain snowfall observers | 333 | |
| Total noncommissioned employees | | 1,349 |
| Total paid employees | | [1] 2,141 |
| Persons serving without compensation (except through the distribution of Government publications): | | |
| Cooperative observers and correspondents (omitting 415 paid observers enumerated elsewhere) | 4,636 | |
| Cooperative storm-warning displaymen | 84 | |
| Cooperative river observers | 23 | |
| Cooperative rainfall observers | 11 | |
| Total cooperatives | | 4,754 |
| Total numerical strength | | 6,895 |

DISTRIBUTION OF THE COMMISSIONED FORCE JUNE 30, 1910.

| | |
|---|---|
| In Washington, D. C.: | |
| Accounts Division | [2] 14 |
| Climatological Division | 16 |
| Distributing Division | 11 |
| Executive branch | 16 |
| Forecast Division | 7 |
| Instrument Division | 11 |
| Library | 4 |
| Marine Division | 13 |
| Observatory | 9 |

[1] This total embraces all paid persons connected with the bureau on June 30, 1910, except 18 commissioned employees absent on that date and who had been granted leaves of absence or furloughs without pay for one month or more.

[2] One employee devotes a portion of his time at one of the map stations at the United States Capitol.

| | |
|---|---|
| In Washington, D. C.—Continued. | |
| Publications Division | 41 |
| River and Flood Division | 3 |
| Supplies Division | [1] 10 |
| Telegraph Division | 11 |
| Verification Section | 2 |
| Drafting room (under direction of the chief clerk) | 4 |
| Heat, light, and power plant (under direction of the chief clerk) | 5 |
| Miscellaneous mechanical work (under direction of the chief clerk) | 6 |
| Watch force (under direction of the chief clerk) | 6 |
| General messenger and laborer service (under direction of the chief clerk) | 21 |
| | 210 |
| Outside of Washington, D. C.: | |
| 53 stations with 1 commissioned employee | 53 |
| 51 stations with 2 commissioned employees | 102 |
| 43 stations with 3 commissioned employees | 129 |
| 18 stations with 4 commissioned employees | 72 |
| 14 stations with 5 commissioned employees | 70 |
| 10 stations with 6 commissioned employees | 60 |
| 3 stations with 7 commissioned employees | 21 |
| 1 station with 8 commissioned employees | 8 |
| 2 stations with 9 commissioned employees | 18 |
| 2 stations with 10 commissioned employees | 20 |
| 1 station with 11 commissioned employees | 11 |
| 1 station with 22 commissioned employees | 22 |
| 199 stations | [2] 586 |

[1] One employee devotes a portion of his time at one of the map stations at the United States Capitol.
[2] This represents the normal station force. On June 30, 1910, there were actually on duty 582 employees.

In addition to the foregoing there are eight special observing (one man) stations in the West Indies, mainly in operation during the hurricane season, and a special repair station in Washington, operated from October to April, inclusive.

The following salary table omits three evaporation observers, who receive pay only when they take observations, and persons on duty at special observing and substations where the salaries are $25 a month or less, and where, as a rule, the tour of duty covers but a small fraction of the day and only certain seasons of the year.

SALARIES PAID IN THE COMMISSIONED GRADES.

| Grades. | June 30, 1910. | |
|---|---|---|
| | Stations. | Washington, D. C. |
| Classified grades: | | |
| Highest salary | $3,000 | $6,000 |
| Lowest salary | 360 | 450 |
| Average salary | 1,035 | 1,166 |
| Unclassified grades: | | |
| Highest salary | 720 | 720 |
| Lowest salary | 300 | 240 |
| Average salary | 390 | 502 |

Average salary of all (station and Washington) is $1,051.

# PART II.

GENERAL SUMMARY OF THE WEATHER CONDITIONS IN THE UNITED STATES, BY MONTHS, DURING THE YEAR 1909.

LIST OF OBSERVING STATIONS AND CHANGES THEREIN DURING 1909.

SUNSHINE, 1909.

DETAILS OF EXCESSIVE PRECIPITATION, 1909.

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# GENERAL SUMMARY OF THE WEATHER CONDITIONS IN THE UNITED STATES, BY MONTHS, DURING THE YEAR 1909.

*January.*—Unusual cold was a marked feature of the weather during the first decade of the month, over the northern districts from the Great Lakes to the Pacific, continuing until the middle of the second decade over the more western districts. Temperatures more than 50° below zero occurred in portions of Montana, and the coldest weather ever known in portions of Oregon and Washington occurred during this period. Heavy snows occurred over much of the above region during the same period, and on account of the continued cold remained on the ground unmelted for a much longer period than usual, causing much suffering to live stock unable to secure their usual food supply on account of the heavy snow covering.

Snowfall was generally very heavy throughout the mountain districts of the West, especially in the Sierra Nevada Mountains, and the month as a whole was one with the greatest precipitation ever known in portions of California and adjoining States.

During the latter half of the month much warmer weather prevailed over the districts that suffered so severely from the cold of the first decade, but over much of the country from the Missouri Valley eastward the latter part of the month was decidedly cold, a severe snowstorm and blizzard prevailing on the 28th and 29th over the lower Missouri and middle Mississippi Valleys.

*February.*—Decidedly cold weather prevailed over the Gulf States and Florida Peninsula during the 1st and 2d and over Texas and portions of the west Gulf States during the 14th and 15th, aside from which moderate temperatures were the rule in nearly all districts and generally throughout the entire month.

Precipitation was well distributed and above the normal in most districts, although only small amounts were received in Florida, Texas, and Oklahoma, and severe droughts were prevailing in portions of those States.

Heavy rains continued in portions of California, Oregon, and Washington, and in the northern mountain portions of California rains occurred almost daily from January 1 to February 25, marking one of the longest periods of nearly continuous rain in the history of that State. At numerous points in the mountains the precipitation for the above period exceeded 80 inches, and at several places more than 90 inches of water fell. As a result severe floods prevailed during both January and February in many of the streams, especially in the Sacramento Valley, where the water was the highest ever known, and much damage to property resulted. Over the mountain districts of the West there was generally more than the usual amount of snowfall and the prospects favored an abundant supply of water for irrigation.

*March.*—The weather as a rule was not materially different from that usual in March. An unusually heavy fall of snow occurred in portions of the Appalachian Mountain region during the 3d and 4th, causing much damage to telegraph and telephone lines and seriously interfering with transportation. Heavy falls of snow occurred in many portions of the mountain regions of the West, and the accumulated stock of snow in those regions was generally greater than for many years, thus assuring an abundant supply of water for irrigation. Heavy rains in portions of Alabama and Georgia from the 9th to 13th caused severe floods in some of the streams of those States, and considerable damage resulted, and damage from flood also occurred in the lower part of the Ohio River.

Only small amounts of rain occurred in the west Gulf States, including Texas and portions of Oklahoma, and the drought conditions in the last-named State were becoming serious.

*April.*—Considerable cold and stormy weather prevailed during the month, especially in the region from the Rocky Mountains eastward over the great central valleys.

Unusually severe storms occurred during the latter portion of the month, and heavy rains, high winds, severe thunderstorms, and tornadoes occurred in many portions of the Mississippi and Ohio Valleys, Lake region, and Gulf States. More than 100 persons were killed, many more injured, and much damage was done to property by these storms. Following the storms referred to above unusually cold weather prevailed in many districts from the Rocky Mountains eastward, continuing to the end of the month.

Unusually heavy snow for April occurred in the upper Mississippi Valley and Lake region, and there were heavy falls in portions of the middle Rocky Mountain region, still further increasing the heavy accumulation of snow already noted in those districts where but little had melted so far during the season, owing to the prevailing cold weather.

*May.*—The generally cold weather prevailing at the end of April in the central valleys overspread the more eastern and southern districts during the early part of May, and freezing temperatures and frost occurred from central Texas northeastward to the lower Lakes. Cold weather for the season continued at intervals during the month over nearly all portions of the country, and minimum temperatures were unusually low, especially in the districts west of the Rocky Mountains, where severe frosts were of frequent occurrence.

The month as a whole was an unusually cold one, especially in the Rocky Mountain and Plateau regions, and the mean temperature was below the normal in all districts save in southern Florida and at a few points along the Atlantic coast.

Precipitation in sufficient quantities and well distributed occurred in most of the districts east of the Rocky Mountains, but to the westward it was generally deficient. In Texas good showers occurred, greatly relieving the drought conditions, which had given much concern to the cotton interests. Drought conditions in other States were also generally relieved. The precipitation was much above the normal in portions of the middle Gulf States, and damaging floods occurred in the rivers of that section and also in other small districts where heavy rains occurred.

Some snow fell over the more northern districts and in the mountains of the West, and the large accumulation of snow in the central and northern Rocky Mountain districts remained practically intact at the end of the month, due to the continued cold weather. In the southern mountain districts considerable melting occurred and the streams were at flood stage during much of the month.

*June.*—The temperature for the month as a whole was close to the normal, although there were periods of decided variation both above and below the temperature common to the season.

During the first week a decided change to warmer weather occurred and the temperature was close to or above the normal in nearly all portions of the country. The second week was generally cool over all northern and western districts and warm over the remaining portions of the country. During the third and fourth weeks of the month it was generally warm, especially in all eastern districts during the last week, when high day temperatures prevailed over much of the Lake region, New England, and the Middle Atlantic States. Along the northern border from North Dakota westward the last week of the month was comparatively cool.

Precipitation was generally heavy and well distributed over nearly all districts east of the Rocky Mountains, exceptions being portions of New England, where the precipitation was light during the latter part of the month and locally in Texas, Oklahoma, and Arkansas, where for several weeks the fall was insufficient.

West of the Rocky Mountains there was a general lack of precipitation, though it was not seriously felt, except in portions of the Southwest, on account of the general excess of moisture in the soil from the heavy precipitation earlier in the season and the abundant supply of water in the streams for irrigation.

High waters were general in the rivers of the West, due to the melting of the large accumulation of snow in the mountains, and minor floods occurred in other districts. Some damage occurred in connection with a series of tornadoes in Missouri on the 22d and Kansas on the 24th, but otherwise the month was remarkably free from severe storms.

*July.*—The high temperatures noted for the closing days of June in the more eastern districts continued during the first few days of July when a change to decidedly cooler weather occurred and unusually low temperatures were recorded at many points east of the Mississippi on the 4th and 5th. At the same time warm weather prevailed over much of the Great Plains, Mountain districts, and the Southwest, continuing at intervals during the balance of the month, while over the eastern districts rather cool weather was the rule.

For the month as a whole the temperature averaged decidedly above the normal from the west Gulf States northwestward to the central Rocky Mountain districts, and it was slightly above from eastern North Dakota to the upper Lakes. Over the remaining districts the month was cooler than the average, and especially so in the Ohio Valley and surrounding districts and in the extreme Northwest.

The precipitation for the month as a whole was generally ample in the districts where rainfall usually occurs, although only small amounts were received in portions of Texas, Oklahoma, and surrounding districts, in portions of the Middle Atlantic States and parts of southern Wisconsin, northern Illinois, and central Michigan.

Very heavy rains occurred over much of Florida, and along the immediate Gulf coast the fall was also generally heavy, as well as in portions of the lower Missouri Valley, upper Lake region, central Montana, and in other smaller areas.

A severe storm of the West Indian type moved from western Cuba across the Gulf to Texas from the 18th to the 22d, resulting in considerable damage along the coast of Texas and the loss of more than 40 human lives.

Heavy floods occurred in the lower Missouri River and some of its tributaries in Kansas, Missouri, and Iowa, and the Mississippi was also high in the middle part of its course.

*August.*—Unusually high temperatures prevailed throughout most of the month in the Mississippi Valley and Great Plains region, the excess above the normal ranging from 2° to 4°, with periods of extreme heat near the 6th and 20th.

Over the Atlantic Coast States from southern Georgia to central New England the month was somewhat cooler than the average and it was generally cool over the Pacific Coast States and the western portion of the Plateau region.

Heavy rains occurred in Florida and along the Gulf and South Atlantic coasts, and very heavy rains for the locality occurred in portions of Arizona, New Mexico, and the adjoining portions of Colorado and Utah. Good rains occurred at many points from the Dakotas to the Great Lakes and in portions of the Ohio Valley and Middle Atlantic States. In portions of Pennsylvania, Maryland, and Virginia, however, the month was very dry, and there was little rain in much of the lower Ohio, middle Mississippi, and lower Missouri Valleys and the central Plains region.

A severe West Indian hurricane moved westward across the Gulf of Mexico from the vicinity of Cuba to the Mexican coast near the mouth of the Rio Grande from about the 25th to 28th. It was accompanied by high winds and excessive rains over southern Texas and northeastern Mexico, and enormous loss of life and much damage to property from flood occurred on the Mexican side of the lower Rio Grande.

*September.*—Unusually warm weather prevailed over the extreme Northwest during the first 10 days of the month, while over the districts from the upper Missouri Valley eastward to New England there was some unusually cold weather, frosts occurring over the more northern districts and freezing temperatures at exposed points in New England.

During the second week the temperature was much above the normal in Oklahoma and Arkansas and in other portions of the Great Plains also, but it was correspondingly low in portions of Utah and surrounding States.

During the third week it was decidedly warmer in California and portions of Oregon, and toward the end of the month heavy to killing frosts occurred over large portions of the Mountain and Plateau regions and generally along the entire northern border.

The precipitatoin was largely local; no extensive areas were entirely without rain; likewise heavy precipitation was confined to widely scattered and comparatively small individual areas.

A severe tropical storm moved from the Gulf of Mexico into Louisiana near the mouth of the Mississippi River on the 20th, and thence northerly through the Mississippi Valley and to the Lake region during the 21st and 22d. This storm caused unusually high winds and tides along the coast from Pensacola, Fla., to Galveston, Tex. More than 350 persons were drowned as a result of the high water, and millions of dollars worth of property was destroyed. The storm rapidly lost force after reaching the coast and its course northward was not marked by any unusual stress of weather.

*October.*—Cool weather for the season prevailed in the central and southern portions of the Plateau region during the latter part of the first decade; to the eastward of the Rocky Mountains during the second decade, and generally in the districts east of the Mississippi during the third decade of the month.

It was generally warm in the central valleys and New England during the opening days of the month; in the central Plateau region during the second decade, and generally to the westward of the Mississippi River during the last decade.

A period of unseasonably cold weather visited the Missouri and upper Mississippi Valleys about the 11th to 14th, when damaging frosts penetrated to a considerable extent into the cotton region. Heavier frosts occurred generally during the last week of the month, especially in the South Atlantic States.

For the month as a whole the temperature was above the normal from the west Gulf States northwestward through the Great Plains region to Montana and westward to the Pacific, except over a narrow strip, including the great valleys of California and adjacent portions of Oregon and Arizona.

The temperature was below the normal from the Dakotas southeastward to the Florida Peninsula and throughout all the eastern districts, save over extreme northeastern New England, where it was normal or slightly above.

The precipitation was very generally less than the normal, although there was more than the usual fall in Oregon and parts of adjoining States, along the Gulf coast and over east-central Texas, in central Kansas, portions of Missouri, and the Ohio Valley, extreme southern Florida, and over small areas in other portions of the country.

Drought conditions which had continued for many weeks in Oklahoma and surrounding districts were partially relieved.

A severe West Indian hurricane, moving from the vicinity of western Cuba, passed over the southern portion of Florida on October 11, accompanied by torrential rains, hurricane winds, and high seas. Immense damage was sustained in the city of Key West, many houses and much shipping being destroyed, and some loss of life occurring.

*November.*—Cold weather visited the Missouri and upper Mississippi Valleys about the 7th to 9th, and it was cold over nearly the entire country west of the Appalachian Mountains about the middle of the month. Unusually high temperatures for November occurred in the northeastern States on the first days and again about the 12th of the month, and in the interior valleys from about the 3d to 7th.

The month as a whole was unusually warm, the normal being exceeded in all portions of the country, save in California and small areas of Nevada, Utah, and Arizona, and along the immediate coast of Oregon and Washington. Over all interior portions of the country the average temperature for the month was far above the normal, the excess in portions of the middle Mississippi and lower Ohio Valleys exceeding 10°.

The precipitation for the month was generally in excess of the average in the districts west of the Mississippi, while to the eastward there was generally a considerable deficiency.

Precipitation was especially heavy for the season in a narrow strip reaching from northwestern Texas to the upper Mississippi Valley, and there was also a large amount of precipitation over the Pacific coast States from central California northward, and in western Montana and northern Idaho. Over much of the Gulf and Atlantic coast States there was a marked deficiency, and in portions of those districts much inconvenience was experienced from the scant water supply.

Floods of considerable proportions were in progress at the end of the month in the streams of the Pacific Northwest, due to the heavy rains in that locality, and moderate floods occurred in the rivers of eastern Kansas and surrounding districts, due to the heavy rains in that section from the 12th to 16th.

*December.*—Unlike the preceding month, December, 1909, was a remarkably cold month in practically all districts of the United States, the only portions where the mean temperature was above the normal being a small area in northern Michigan and over portions of northern New England. Over a vast area from the Ohio Valley westward and northwestward to the middle and northern plateau regions the average temperature for the month was from 8° to more than 12° below the normal.

In most districts the first days of the month were marked by mild weather, but by the 3d severe cold had set in over Montana, and by the 7th it had covered practically the whole country, the central and northern parts of the Great Plains experiencing remarkably cold weather for early December.

The second decade was decidedly cold in practically all interior districts, and the closing days of the month brought especially severe weather to the Atlantic coast States. However, a change to warmer weather occurred in most districts between the Rocky and Appalachian Mountains during the last few days of the month.

Frosts reached nearly all parts of Florida, California, and southern Texas.

Considerable precipitation occurred to the eastward of the Mississippi, save in eastern and southern Florida, where drought still continued. Over much of the lower Mississippi Valley and east Gulf States the precipitation was quite heavy, from 4 to 8 inches, and considerable rain or snow occurred in the more northern portions of the Middle Atlantic States, in the lake region, and in portions of the mountain and plateau regions of the west.

Precipitation was generally heavy along the entire Pacific coast, although in portions of Washington, Oregon, and California the amounts were less than normal. In southern California, however, especially along the coast between San Francisco and Los Angeles, the precipitation for the month was decidedly above the normal.

More snow than usually occurs was received in much of the central plateau and central and northern Rocky Mountain regions, in portions of the Great Plains, Missouri, and upper Mississippi Valleys, and in the northeastern States.

Floods continued from November in the streams of the Pacific Northwest, and much damage was done to railroads, bridges, farm lands, etc. Floods also occurred in the rivers of central California during the first week of the month, but aside from those mentioned no high waters were reported from the other main streams of the country.

Much additional information regarding the weather of the year is shown on the accompanying series of charts, which indicate the total annual precipitation; also the total precipitation during the crop-growing season, March 1 to September 30, with departures from the normal. The temperature conditions are also indicated by charts showing the departure of the mean temperature from the normal during the crop-growing season, together with charts showing the extremes of temperature recorded in all parts of the country during the entire year. The general distribution of the atmospheric pressure and the prevailing direction of the winds are also shown, as well as the distribution of the number of days with thunderstorms.

ANNUAL SUMMARY, CLIMATOLOGICAL DATA, CANADIAN STATIONS, 1909.

[From data furnished by the Canadian Meteorological Service.]

| Districts and stations. | Pressure in inches. | | | Temperature of the air in degrees Fahrenheit. | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Station, reduced to mean of 24 hours. | Sea level, reduced to mean of 24 hours. | Departure from normal. | Mean max.+mean min.÷2. | Departure from normal. | Mean maximum. | Mean minimum. | Total precipitation. | Departure from normal. | Total snowfall. | Absolute maximum. | Absolute minimum. |
| St. Johns, Newfoundland | 29.72 | 29.85 | −0.06 | 42.5 | +2.0 | 47.6 | 35.0 | 61.21 | + 7.78 | 72.8 | 89 | − 5 |
| Sydney, Cape Breton Island | 29.88 | 29.92 | − .02 | 43.6 | +2.3 | 51.7 | 34.9 | 55.62 | + 5.34 | 96.0 | 88 | −13 |
| Halifax, Nova Scotia | 29.83 | 29.94 | − .04 | 44.3 | +1.7 | 53.0 | 34.9 | 54.13 | − 2.90 | 81.8 | 94 | −10 |
| Grand Manan, New Brunswick | 29.88 | 29.93 | − .04 | 44.3 | +1.6 | 51.7 | 37.0 | 48.96 | + 1.71 | 77.3 | 87 | − 3 |
| Yarmouth, Nova Scotia | 29.88 | 29.95 | − .04 | 44.2 | +1.0 | 51.4 | 37.1 | 41.39 | − 7.79 | 54.2 | 79 | 4 |
| Charlottetown, Prince Edward Island | 29.87 | 29.91 | − .04 | 43.2 | +2.3 | 50.2 | 36.2 | 47.71 | + 6.05 | 116.5 | 88 | −16 |
| Chatham, New Brunswick | 29.89 | 29.91 | − .02 | 41.0 | +2.3 | 49.9 | 32.0 | 53.43 | +12.14 | 122.1 | 89 | −22 |
| Father Point, Quebec | 29.90 | 29.92 | − .01 | 36.1 | +1.4 | 43.6 | 28.6 | 39.89 | + 6.90 | 96.0 | 77 | −23 |
| Quebec, Quebec | 29.62 | 29.95 | − .03 | 39.3 | +1.1 | 47.2 | 31.4 | 47.00 | + 5.28 | 139.7 | 86 | −23 |
| Montreal, Quebec | 29.74 | 29.97 | − .03 | 42.8 | +1.3 | 49.4 | 35.9 | 40.37 | − 0.62 | 94.5 | 88 | −17 |
| Stonecliffe, Ontario [1] | 29.36 | 29.97 | − .02 | 38.5 | +0.3 | 49.5 | 27.5 | 27.93 | − 2.53 | 78.4 | 92 | −29 |
| Ottawa, Ontario | 29.71 | 30.04 | + .04 | 41.4 | +0.8 | 49.7 | 33.1 | 40.22 | + 7.62 | 90.3 | 87 | −17 |
| Kingston, Ontario | 29.69 | 30.01 | − .01 | 43.8 | +0.7 | 51.1 | 36.6 | 37.99 | + 4.04 | 51.3 | 84 | −10 |
| Toronto, Ontario | 29.62 | 30.00 | − .02 | 46.1 | +1.9 | 54.1 | 37.7 | 32.92 | − 0.80 | 67.7 | 96 | − 9 |
| White River, Ontario | 28.63 | 29.96 | − .02 | 34.1 | +2.2 | 47.7 | 23.3 | ..... | ..... | 71.8 | 88 | −48 |
| Port Stanley, Ontario | 29.37 | 30.02 | − .01 | 45.2 | +0.5 | 53.2 | 37.2 | 38.37 | + 6.45 | 68.6 | 84 | − 6 |
| Southampton, Ontario | 29.29 | ..... | ..... | 44.1 | +1.8 | 52.3 | 35.9 | 41.78 | + 7.99 | 144.3 | 90 | − 6 |
| Parry Sound, Ontario | 29.29 | 29.99 | .00 | 42.0 | +1.8 | 51.5 | 32.5 | 41.58 | + 3.31 | 141.5 | 90 | −15 |
| Port Arthur, Ontario | 29.28 | 30.00 | + .01 | 37.0 | +2.6 | 46.4 | 27.6 | 20.98 | + 2.12 | 48.0 | 85 | −37 |
| Winnipeg, Manitoba | 29.17 | 30.02 | + .02 | 35.3 | +2.2 | 45.1 | 24.6 | 23.12 | + 2.14 | 104.8 | 93 | −45 |
| Minnedosa, Manitoba | 28.15 | 30.01 | + .01 | 33.7 | +2.1 | 44.8 | 22.6 | 15.84 | − 0.61 | 65.6 | 92 | −40 |
| Qu'Appelle, Saskatchewan | 27.66 | 29.95 | − .03 | 32.8 | −0.3 | 42.8 | 23.0 | 25.75 | + 9.67 | 60.5 | 86 | −46 |
| Medicine Hat, Alberta | 25.36 | 29.97 | + .01 | 41.1 | +0.8 | 52.8 | 29.1 | 9.80 | − 4.00 | 25.1 | 95 | −40 |
| Swift Current, Saskatchewan | 27.38 | 29.99 | .00 | 36.0 | −1.2 | 46.0 | 26.0 | 19.26 | + 3.79 | 18.3 | 92 | −38 |
| Calgary, Alberta | 26.36 | 29.95 | + .02 | 36.0 | −1.2 | 47.2 | 24.7 | 15.76 | + 1.89 | (2) | 84 | −42 |
| Banff, Alberta | 25.31 | 29.98 | + .05 | 33.5 | −2.2 | 44.5 | 22.4 | 21.56 | − 0.35 | 122.4 | 85 | −47 |
| Edmonton, Alberta | 27.63 | 29.96 | + .04 | 33.8 | −1.8 | 46.0 | 21.7 | 12.88 | − 2.95 | 38.1 | 88 | −50 |
| Prince Albert, Saskatchewan | 28.38 | 29.97 | − .01 | 31.2 | +0.8 | 42.5 | 20.1 | 18.64 | + 3.73 | 50.5 | 88 | −48 |
| Battleford, Saskatchewan | 28.21 | 29.99 | + .02 | 32.6 | −0.7 | 43.2 | 21.7 | 9.62 | − 4.31 | 3.6 | 98 | −48 |
| Kamloops, British Columbia | 28.64 | 29.92 | − .02 | 46.3 | −0.9 | 56.6 | 36.0 | 9.63 | − 1.98 | 35.3 | 98 | −29 |
| Victoria, British Columbia | 29.73 | 30.00 | .00 | 48.5 | −0.1 | 55.3 | 41.8 | 27.97 | −10.17 | 7.9 | 81 | 8 |
| Barkerville, British Columbia | 25.60 | 29.92 | + .02 | 31.8 | −4.4 | 40.3 | 24.1 | 37.42 | + 4.32 | 14.0 | 76 | −36 |
| Dawson, Yukon | ..... | 30.10 | ..... | 18.6 | ..... | 51.9 | −10.1 | 14.21 | ..... | 77.7 | 84 | −64 |
| Hamilton, Bermuda | 29.95 | 30.09 | + .02 | 69.2 | −0.5 | 74.1 | 65.0 | 69.16 | + 6.37 | 0.0 | 87 | 45 |

[1] Name changed from "Rockliffe."

[2] Record incomplete.

# LIST OF OBSERVING STATIONS.

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

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

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

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

**P** = continuous records of pressure (on December 31, 1909);
**T** = continuous records of temperature (on December 31, 1909);
**W** = continuous records of wind (direction and velocity) (on December 31, 1909);
**V** = continuous records of wind (velocity only) (on December 31, 1909);
**R** = continuous records of rainfall (on December 31, 1909);
**S** = continuous records of sunshine (on December 31, 1909).

SUMMARY OF STATIONS IN OPERATION DURING THE YEAR.

| | |
|---|---|
| Taking two observations daily (all elements) | 168 |
| Taking one observation daily (all elements) | 50 |
| Taking one observation daily (temperature, rainfall, wind, and weather) | 42 |
| Taking one observation daily (temperature and rainfall only, *cotton, sugar, and rice regions*) | 126 |
| Taking one observation daily (temperature and rainfall only, *corn and wheat region*) | 132 |
| Taking one observation daily (river and rainfall only) | 312 |
| Taking one observation daily (rainfall only) | 83 |
| Snowfall stations | 300 |
| Total paid stations | 1,213 |
| Cooperative stations, about | [1] 3,800 |
| Grand total | 5,013 |

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

| Stations. | Latitude. | Longitude. | Local meridian time faster or slower than 75th meridian. | Elevation Dec. 31, 1909. Barometer above sea. | Thermometer above ground. | Rain gage above ground. | Anemometer above ground. | Observations began. | Date of changes in elevation. |
|---|---|---|---|---|---|---|---|---|---|
| | ° ′ | ° ′ | h m. | *Feet.* | *Feet.* | *Feet.* | *Feet.* | | |
| Abilene, **P T W R S** | 32 23 | 99 40 | 1 39 S. | 1,738 | 45 | 36 | 54 | Sept. 14, 1885 | |
| Albany, **P T W R S** | 42 39 | 73 45 | 05 F. | 97 | 102 | 100 | 115 | Dec. 22, 1873 | |
| Alpena, **P T W R S** | 45 05 | 83 30 | 34 S. | 609 | 13 | 4 | 92 | Sept. 10, 1872 | |
| Amarillo, **P T W R S** | 35 13 | 101 50 | 1 47 S. | 3,676 | 10 | 3 | 49 | Jan. 1, 1892 | |
| Anniston, **P T W R S** | 33 39 | 85 50 | 43 S. | 741 | 9 | 3 | 57 | Oct. 16, 1905 | |
| Asheville, **P T W R S** | 35 36 | 82 32 | 30 S. | 2,255 | 53 | 46 | 75 | Aug. 22, 1902 | |
| Atlanta, **P T W R S** | 33 45 | 84 23 | 38 S. | 1,174 | 190 | 182 | 216 | Sept. 25, 1878 | |

[1] Exclusive of the observers of the cotton, sugar and rice, and corn and wheat regions, who generally act as cooperative observers during the period when not employed as special observers.

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

| Stations. | Latitude. | | Longitude. | | Local meridian time faster or slower than 75th meridian. | | Elevation Dec. 31, 1909. | | | | Observations began. | Date of changes in elevation. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Barometer above sea. | Thermometer above ground. | Rain gage above ground. | Anemometer above ground. | | |
| | ° | ′ | ° | ′ | h | m | Feet. | Feet. | Feet. | Feet. | | |
| Atlantic City, P T W R S | 39 | 22 | 74 | 25 | | 02 F. | 52 | 37 | 33 | 48 | Dec. 10, 1873 | |
| Augusta, P T W R S | 33 | 28 | 81 | 54 | | 28 S. | 180 | 89 | 54 | 97 | Nov. 2, 1870 | |
| Baker City, P T W R S | 44 | 46 | 117 | 50 | 2 | 51 S. | 3,471 | 48 | 38 | 58 | July 9, 1889 | |
| Baltimore, P T W R S | 39 | 18 | 76 | 37 | | 06 S. | 123 | 100 | 90 | 113 | Jan. 1, 1871 | |
| Bentonville, P T W R S | 36 | 22 | 94 | 12 | 1 | 17 S. | 1,303 | 11 | 3 | 44 | Mar. 16, 1906 | |
| Binghamton, P T W R S | 42 | 08 | 75 | 55 | | 04 S. | 871 | 79 | 71 | 88 | Oct. 1, 1896 | |
| Birmingham, P T W R S | 33 | 32 | 86 | 50 | | 47 S. | 700 | 11 | 3 | 48 | Sept. 14, 1895 | |
| Bismarck, P T W R S | 46 | 47 | 100 | 38 | 1 | 43 S. | 1,674 | 8 | 3 | 57 | Sept. 15, 1874 | |
| Blaine | 48 | 59 | 122 | 45 | 3 | 11 S. | 58 | 4 | 3 | ..... | Jan. 14, 1908 | |
| Block Island, P T W R S | 41 | 10 | 71 | 36 | | 14 F. | 26 | 11 | 3 | 46 | Sept. 1, 1880 | |
| Boise, P T W R S | 43 | 37 | 116 | 08 | 2 | 45 S. | 2,739 | 78 | 72 | 86 | July 1, 1877 | |
| Boston, P T W R S | 42 | 21 | 71 | 04 | | 16 F. | 125 | 115 | 154 | 188 | Nov. 1, 1870 | |
| Brawley | 32 | 59 | 115 | 31 | 2 | 42 S. | [1]105 | 11 | 3 | 31 | Nov. 1, 1908 | |
| Brownsville | 26 | 00 | 97 | 26 | 1 | 30 S. | 57 | 4 | 2 | ..... | Nov. 18, 1875 | |
| Buffalo, P T W R S | 42 | 53 | 78 | 53 | | 16 S. | 767 | 178 | 168 | 206 | Nov. 1, 1870 | |
| Burlington, P T W R S | 44 | 29 | 73 | 12 | | 07 F. | 404 | 11 | 3 | 48 | Mar. 29, 1906 | |
| Cairo, P T W R S | 37 | 00 | 89 | 10 | | 57 S. | 356 | 87 | 80 | 93 | June 1, 1871 | |
| Canton, P T W R S | 44 | 36 | 75 | 10 | | 01 S. | 448 | 10 | 4 | 71 | July 1, 1906 | |
| Cape Henry, P T W R S | 36 | 56 | 76 | 00 | | 04 S. | 18 | 11 | 43 | 58 | Dec. 15, 1873 | |
| Cape May, T W | 38 | 56 | 74 | 51 | | 01 F. | 17 | 48 | 41 | 52 | July 16, 1897 | |
| Charles City, P T W R S | 43 | 04 | 92 | 38 | 1 | 11 S. | 1,015 | 10 | 4 | 49 | Nov. 1, 1904 | |
| Charleston, P T W R S | 32 | 47 | 79 | 56 | | 20 S. | 48 | 14 | 76 | 92 | Jan. 5, 1871 | |
| Charlotte, P T W R S | 35 | 13 | 80 | 51 | | 23 S. | 773 | 68 | 60 | 76 | Oct. 6, 1878 | |
| Chattanooga, P T W R S | 35 | 04 | 85 | 14 | | 41 S. | 762 | 189 | 167 | 213 | Sept. 12, 1875 | |
| Cheyenne, P T W R S | 41 | 08 | 104 | 48 | 1 | 59 S. | 6,088 | 56 | 49 | 64 | Nov. 1, 1870 | |
| Chicago, P T W R S | 41 | 53 | 87 | 37 | | 50 S. | 823 | 140 | 133 | 310 | .....do..... | |
| Cincinnati, P T W R S | 39 | 06 | 84 | 30 | | 38 S. | 628 | 152 | 145 | 160 | .....do..... | |
| Cleveland, P T W R S | 41 | 30 | 81 | 42 | | 27 S. | 762 | 190 | 163 | 201 | .....do..... | |
| Columbia, Mo., P T W R S | 38 | 57 | 92 | 20 | 1 | 09 S. | 784 | 11 | 3 | 84 | Aug. 21, 1889 | |
| Columbia, S. C., P T W R S | 34 | 00 | 81 | 03 | | 24 S. | 351 | 41 | 32 | 57 | June 5, 1887 | |
| Columbus, P T W R S | 39 | 58 | 83 | 00 | | 32 S. | 824 | 173 | 171 | 222 | July 1, 1878 | |
| Concord, P T W R S | 43 | 12 | 71 | 32 | | 14 F. | 288 | 70 | 62 | 79 | Nov. 1, 1902 | |
| Concordia, V | 39 | 35 | 97 | 41 | 1 | 31 S. | 1,398 | 42 | 35 | 50 | May 1, 1885 | |
| Corpus Christi, P T W R S | 27 | 49 | 97 | 25 | 1 | 30 S. | 20 | 69 | 61 | 77 | Feb. 1, 1887 | |
| Davenport, P T W R S | 41 | 30 | 90 | 38 | 1 | 03 S. | 606 | 71 | 65 | 79 | May 24, 1871 | |
| Del Rio, P T W R S | 29 | 20 | 100 | 53 | 1 | 44 S. | 944 | 8 | 3 | 57 | Nov. 9, 1905 | |
| Denver, P T W R S | 39 | 45 | 105 | 00 | 2 | 00 S. | 5,291 | 129 | 119 | 136 | Nov. 19, 1871 | |
| Des Moines, P T W R S | 41 | 35 | 93 | 37 | 1 | 14 S. | 861 | 84 | 76 | 101 | July 29, 1877 | |
| Detroit, P T W R S | 42 | 20 | 83 | 03 | | 32 S. | 730 | 218 | 214 | 258 | Nov. 1, 1870 | |
| Devils Lake, P T W R S | 48 | 07 | 98 | 52 | 1 | 35 S. | 1,482 | 11 | 4 | 44 | Dec. 7, 1904 | |
| Dodge, P T W R S | 37 | 45 | 100 | 00 | 1 | 40 S. | 2,509 | 11 | 3 | 51 | Sept. 15, 1874 | |
| Dubuque, P T W R S | 42 | 30 | 90 | 44 | 1 | 03 S. | 698 | 100 | 95 | 115 | July 2, 1873 | |
| Duluth, P T W R S | 46 | 47 | 92 | 06 | 1 | 08 S. | 1,133 | 11 | 3 | 47 | Nov. 1, 1870 | |
| Durango, P T W R S | 37 | 16 | 107 | 52 | 2 | 11 S. | 6,546 | 18 | 3 | 56 | Dec. 20, 1904 | |
| Eastport, P T W R S | 44 | 54 | 66 | 59 | | 32 F. | 76 | 67 | 62 | 85 | Apr. 1, 1873 | |
| Elkins, P T W R S | 38 | 53 | 79 | 49 | | 19 S. | 1,940 | 41 | 34 | 50 | Jan. 1, 1899 | |
| Ellendale | 45 | 59 | 98 | 33 | 1 | 34 S. | 1,448 | 5 | 4 | ..... | July 24, 1908 | |
| El Paso, P T W S | 31 | 47 | 106 | 30 | 2 | 06 S. | 3,762 | 110 | 102 | 133 | Apr. 1, 1878 | |
| Erie, P T W R S | 42 | 07 | 80 | 05 | | 20 S. | 714 | 92 | 82 | 102 | May 25, 1873 | |
| Escanaba, P T W R S | 45 | 48 | 87 | 05 | | 48 S. | 612 | 40 | 33 | 82 | May 24, 1871 | |
| Eureka, P T W R S | 40 | 48 | 124 | 11 | 3 | 17 S. | 62 | 62 | 55 | 80 | Jan. 1, 1887 | |
| Evansville, P T W R S | 37 | 58 | 87 | 33 | | 50 S. | 431 | 72 | 66 | 82 | Dec. 1, 1897 | |
| Flagstaff, T W | 35 | 12 | 111 | 37 | 2 | 26 S. | 6,907 | 8 | 3 | 57 | Sept. 9, 1898 | |
| Fort Smith, P T W R S | 35 | 22 | 94 | 24 | 1 | 18 S. | 457 | 79 | 72 | 94 | Apr. 13, 1879 | |
| Fort Worth, P T W R S | 32 | 43 | 97 | 15 | 1 | 29 S. | 670 | 106 | 51 | 114 | Sept. 1, 1898 | |
| Fresno, P T W R S | 36 | 43 | 119 | 49 | 2 | 59 S. | 330 | 67 | 54 | 70 | Aug. 18, 1887 | |
| Galveston, P T W R S | 29 | 18 | 94 | 50 | 1 | 19 S. | 54 | 106 | 98 | 112 | Apr. 19, 1871 | |
| Grand Haven, P T W R S | 43 | 05 | 86 | 13 | | 45 S. | 632 | 54 | 49 | 92 | May 24, 1871 | |
| Grand Junction, P T W R S | 39 | 09 | 108 | 33 | 2 | 14 S. | 4,608 | 43 | 37 | 51 | Jan. 1, 1899 | |
| Grand Rapids, P T W R S | 42 | 58 | 85 | 40 | | 43 S. | 707 | 127 | 121 | 162 | July 1, 1903 | |
| Green Bay, P T W R S | 44 | 31 | 88 | 00 | | 52 S. | 617 | 49 | 43 | 86 | Sept. 1, 1886 | |
| Greenville | 45 | 24 | 69 | 33 | | 22 F. | 1,070 | 6 | 3 | ..... | Oct. 1, 1907 | |
| Hannibal, P T W R S | 39 | 41 | 91 | 20 | 1 | 05 S. | 534 | 75 | 68 | 109 | Apr. 16, 1892 | |
| Harrisburg, P T W R S | 40 | 16 | 76 | 52 | | 07 S. | 374 | 94 | 88 | 104 | July 1, 1888 | |
| Hartford, P T W R S | 41 | 46 | 72 | 40 | | 09 F. | 159 | 122 | 116 | 140 | Oct. 7, 1904 | |
| Hatteras, P T W R S | 35 | 15 | 75 | 40 | | 03 S. | 11 | 12 | 34 | 47 | Dec. 1, 1880 | |
| Havre, P T W R S | 48 | 34 | 109 | 40 | 2 | 19 S. | 2,505 | 11 | 4 | 44 | May 16, 1892 | |

[1]Below sea level.

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

| Stations. | Latitude. | | Longitude. | | Local meridian time faster or slower than 75th meridian. | | Elevation Dec. 31, 1909. | | | | Observations began. | Date of changes in elevation. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Barometer above sea. | Thermometer above ground. | Rain gage above ground. | Anemometer above ground. | | |
| | ° | ′ | ° | ′ | h | m. | Feet. | Feet. | Feet. | Feet. | | |
| Helena, P T W R S | 46 | 34 | 112 | 04 | 2 | 28 S. | 4,110 | 8 | 3 | 56 | Apr. 1, 1880 | |
| Honolulu, P T W R S | 21 | 19 | 157 | 52 | 5 | 31 S. | 38 | 111 | 99 | 119 | Sept. 1, 1904 | |
| Houghton, P T W S | 47 | 07 | 88 | 34 | | 54 S. | 668 | 66 | 57 | 74 | Aug. 26, 1900 | |
| Houston, P T W R S | 29 | 47 | 95 | 24 | 1 | 22 S. | 138 | 111 | 104 | 121 | Sept. 16, 1909 | |
| Huron, P T W R S | 44 | 21 | 98 | 14 | 1 | 33 S. | 1,306 | 56 | 52 | 67 | July 1, 1881 | |
| Independence, P T W R S | 36 | 48 | 118 | 12 | 2 | 53 S. | 3,910 | 11 | 4 | 42 | Dec. 1, 1894 | |
| Indianapolis, P T W R S | 39 | 46 | 86 | 10 | | 45 S. | 822 | 154 | 146 | 164 | Feb. 10, 1871 | |
| Iola, P T W R S | 37 | 55 | 95 | 25 | 1 | 22 S. | 984 | 11 | 3 | 50 | Aug. 20, 1905 | |
| Ithaca, P T W R S | 42 | 27 | 76 | 29 | | 6 S. | 836 | 82 | 4 | 100 | ..... | |
| Jacksonville, P T W R S | 30 | 20 | 81 | 39 | | 27 S. | 43 | 96 | 88 | 129 | Sept. 11, 1871 | |
| Jupiter, P T W R S | 26 | 57 | 80 | 07 | | 20 S. | 28 | 10 | 3 | 46 | Jan. 1, 1888 | |
| Kalispell, P T W R S | 48 | 10 | 114 | 25 | 2 | 38 S. | 2,962 | 11 | 4 | 34 | May 3, 1899 | |
| Kansas City, P T W R S | 39 | 05 | 94 | 37 | 1 | 18 S. | 963 | 161 | 141 | 181 | Apr. 21, 1873 | |
| Keokuk, P W R S | 40 | 22 | 91 | 26 | 1 | 06 S. | 614 | 64 | 56 | 78 | July 16, 1871 | |
| Key West, P T W R S | 24 | 33 | 81 | 48 | | 27 S. | 22 | 10 | 3 | 53 | Nov. 1, 1870 | |
| Knoxville, P T W R S | 35 | 56 | 83 | 58 | | 36 S. | 996 | 93 | 84 | 100 | Jan. 20, 1871 | |
| La Crosse, P T W R S | 43 | 49 | 91 | 15 | 1 | 05 S. | 714 | 11 | 3 | 48 | Oct. 15, 1872 | |
| Lander, P T W R S | 42 | 50 | 108 | 45 | 2 | 15 S. | 5,372 | 26 | 18 | 36 | Aug. 1, 1891 | |
| La Salle, P T W R S | 41 | 20 | 89 | 05 | | 56 S. | 536 | 56 | 49 | 64 | Nov. 19, 1904 | |
| Leadville, T | 39 | 15 | 106 | 18 | 2 | 05 S. | 10,242 | 7 | 4 | ..... | Nov. 1, 1907 | |
| Lewiston, P T W R S | 46 | 25 | 117 | 02 | 2 | 48 S. | 757 | 10 | 4 | 51 | Oct. 1, 1900 | |
| Lexington, P T W R S | 38 | 02 | 84 | 33 | | 38 S. | 989 | 75 | 68 | 102 | Oct. 1, 1872 | |
| Lincoln, P T W R S | 40 | 49 | 96 | 45 | 1 | 27 S. | 1,189 | 11 | 4 | 84 | Aug. 8, 1894 | |
| Little Rock, P T W R S | 34 | 45 | 92 | 06 | 1 | 08 S. | 357 | 139 | 132 | 147 | Apr. 21, 1873 | |
| Los Angeles, P T W R S | 34 | 03 | 118 | 15 | 2 | 53 S. | 338 | 159 | 151 | 191 | July 1, 1877 | |
| Louisville, P T W R S | 38 | 15 | 85 | 45 | | 43 S. | 525 | 111 | 103 | 132 | Sept. 11, 1871 | |
| Lynchburg, P T W R S | 37 | 25 | 79 | 09 | | 17 S. | 681 | 83 | 77 | 88 | May 24, 1871 | |
| Macon, P T W R S | 32 | 50 | 83 | 38 | | 35 S. | 370 | 78 | 71 | 87 | Apr. 8, 1899 | |
| Madison, P T W R S | 43 | 05 | 89 | 23 | | 58 S. | 974 | 70 | 62 | 78 | Sept. 16, 1904 | |
| Manteo, V | 35 | 54 | 75 | 40 | | 03 S. | 12 | 12 | 4 | 46 | Nov. 10, 1904 | |
| Marquette, P T W R S | 46 | 34 | 87 | 24 | | 50 S. | 734 | 77 | 70 | 116 | May 11, 1871 | |
| Marshfield | 43 | 22 | 124 | 17 | 3 | 17 S. | 36 | 3 | 33 | ..... | May 1, 1908 | |
| Memphis, P T W R S | 35 | 09 | 90 | 03 | 1 | 00 S. | 399 | 76 | 69 | 97 | Feb. 28, 1871 | |
| Meridian, P T W R S | 32 | 21 | 88 | 40 | | 55 S. | 375 | 84 | 3 | 93 | Sept. 1, 1889 | |
| Miles City, P V | 46 | 25 | 105 | 49 | 2 | 03 S. | 2,371 | 26 | 32 | 48 | Oct. 1, 1891 | |
| Milwaukee, P T W R S | 43 | 02 | 87 | 54 | | 52 S. | 681 | 122 | 116 | 139 | Nov. 1, 1870 | |
| Minneapolis, P T W R S | 44 | 59 | 93 | 18 | 1 | 13 S. | ..... | 102 | 92 | 208 | Nov. 6, 1890 | |
| Missoula | 46 | 51 | 113 | 59 | 2 | 36 S. | 3,234 | 5 | 3 | ..... | Aug. 11, 1908 | |
| Mobile, P T W R S | 30 | 41 | 88 | 02 | | 52 S. | 57 | 98 | 91 | 106 | Nov. 7, 1870 | |
| Modena, P T W R S | 37 | 48 | 113 | 54 | 2 | 36 S. | 5,479 | 10 | 2 | 43 | Jan. 1, 1901 | |
| Montgomery, P T W R S | 32 | 23 | 86 | 18 | | 45 S. | 223 | 100 | 71 | 112 | Nov. 9, 1870 | |
| Moorhead, P T W | 46 | 52 | 96 | 44 | 1 | 27 S. | 940 | 8 | 3 | 57 | Jan. 31, 1881 | |
| Mount Tamalpais, P T W R S | 37 | 56 | 122 | 35 | 3 | 10 S. | 2,375 | 11 | 5 | 18 | Sept. 2, 1898 | |
| Mount Weather, P T W R S | 39 | 04 | 77 | 54 | | 12 S. | 1,725 | 10 | 3 | 54 | Nov. 1, 1904 | |
| Nantucket, P T W R S | 41 | 17 | 70 | 06 | | 20 F. | 12 | 14 | 4 | 90 | Oct. 18, 1886 | |
| Narragansett Pier | 41 | 19 | 71 | 17 | | 15 F. | ..... | 9 | 3 | ..... | Apr. 1, 1882 | |
| Nashville, P T W R S | 36 | 10 | 86 | 47 | | 47 S. | 546 | 168 | 161 | 191 | Nov. 1, 1870 | |
| New Haven, P T W R S | 41 | 18 | 72 | 56 | | 08 F. | 106 | 116 | 111 | 155 | Dec. 10, 1872 | |
| New Orleans, P T W R S | 29 | 58 | 90 | 04 | 1 | 00 S. | 51 | 90 | 78 | 121 | Nov. 1, 1870 | |
| New York, P T W R S | 40 | 43 | 74 | 00 | | 04 F. | 314 | 108 | 305 | 350 | .....do..... | |
| Nome | 64 | 30 | 165 | 24 | 6 | 02 S. | 22 | ..... | 34 | ..... | Dec. 1, 1906 | |
| Norfolk, P T W R S | 36 | 51 | 76 | 17 | | 05 S. | 91 | 102 | 96 | 111 | Jan. 1, 1871 | |
| Northfield, P T W R S | 44 | 10 | 72 | 41 | | 09 F. | 876 | 16 | 3 | 70 | Mar. 1, 1887 | |
| North Head, P T W R S | 46 | 16 | 124 | 04 | 3 | 16 S. | 211 | 11 | 3 | 56 | Aug. 1, 1902 | |
| North Platte, P T W R S | 41 | 08 | 100 | 45 | 1 | 43 S. | 2,821 | 11 | 3 | 51 | Sept. 18, 1874 | |
| Oklahoma City, P T W R S | 35 | 26 | 97 | 33 | 1 | 30 S. | 1,214 | 10 | 3 | 47 | Nov. 1, 1890 | |
| Omaha, P T W R S | 41 | 16 | 95 | 56 | 1 | 24 S. | 1,105 | 115 | 107 | 121 | Nov. 1, 1870 | |
| Oswego, P T W S | 43 | 29 | 76 | 35 | | 06 S. | 335 | 76 | 68 | 91 | .....do..... | |
| Palestine, P T W R S | 31 | 45 | 95 | 40 | 1 | 23 S. | 510 | 73 | 68 | 79 | Dec. 3, 1881 | |
| Parkersburg, P T W R S | 39 | 16 | 81 | 36 | | 26 S. | 638 | 77 | 70 | 84 | July 1, 1888 | |
| Pensacola, P T W R S | 30 | 25 | 87 | 13 | | 49 S. | 56 | 140 | 131 | 183 | Oct. 27, 1879 | |
| Peoria, P T W R S | 40 | 43 | 89 | 36 | | 58 S. | 609 | 11 | 4 | 45 | Feb. 1, 1905 | |
| Philadelphia, P T W R S | 39 | 57 | 75 | 09 | | 01 S. | 117 | 116 | 114 | 184 | Jan. 1, 1871 | |
| Phoenix, P T W R S | 33 | 28 | 112 | 00 | 2 | 28 S. | 1,108 | 50 | 41 | 56 | Aug. 6, 1895 | |
| Pierre, P T W | 44 | 22 | 100 | 21 | 1 | 41 S. | 1,572 | 70 | 63 | 75 | July 1, 1891 | |
| Pittsburg, P T W R S | 40 | 32 | 80 | 02 | | 20 S. | 842 | 336 | 329 | 352 | Nov. 1, 1870 | |

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

| Stations. | Latitude. | | Longitude. | | Local meridian time faster or slower than 75th meridian. | | Elevation Dec. 31, 1909. | | | | Observations began. | Date of changes in elevation. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Barometer above sea. | Thermometer above ground. | Rain gage above ground. | Anemometer above ground. | | |
| | ° | ′ | ° | ′ | h | m | Feet. | Feet. | Feet. | Feet. | | |
| Pocatello, P T W R S | 42 | 52 | 112 | 29 | 2 | 30 S. | 4,477 | 46 | 37 | 54 | July 1, 1899 | |
| Point Reyes Light, P W R S | 38 | 11 | 122 | 51 | 3 | 11 S. | 490 | 7 | 3 | 18 | Mar. 1, 1889 | |
| Port Crescent, P T V | 48 | 08 | 123 | 41 | 3 | 15 S. | 259 | 8 | 4 | 53 | Oct. 1, 1898 | |
| Port Huron, P T W R S | 43 | 00 | 82 | 26 | | 30 S. | 638 | 70 | 63 | 120 | July 25, 1874 | |
| Portland, Me., P T W R S | 43 | 39 | 70 | 15 | | 19 F. | 103 | 81 | 75 | 117 | Jan. 15, 1871 | |
| Portland, Oreg., P T W R S | 45 | 32 | 122 | 43 | 3 | 11 S. | 153 | 68 | 63 | 106 | Nov. 1, 1870 | |
| Providence, P T W R S | 41 | 50 | 71 | 25 | | 14 F. | 160 | 141 | 134 | 165 | Oct. 22, 1904 | |
| Pueblo, P T W R S | 38 | 18 | 104 | 36 | 1 | 58 S. | 4,685 | 80 | 72 | 86 | July 1, 1888 | |
| Raleigh, P T W R S | 35 | 45 | 78 | 37 | | 14 S. | 376 | 103 | 94 | 110 | Apr. 1, 1884 | |
| Rapid City, P T W R S | 44 | 04 | 103 | 12 | 1 | 53 S. | 3,234 | 46 | 35 | 50 | Jan. 24, 1881 | |
| Red Bluff, P T W R S | 40 | 10 | 122 | 15 | 3 | 09 S. | 332 | 50 | 40 | 56 | July 1, 1877 | |
| Reno, P T W R S | 39 | 32 | 119 | 49 | 2 | 59 S. | 4,532 | 56 | 47 | 63 | Nov. 11, 1905 | |
| Richmond, P T W R S | 37 | 32 | 77 | 27 | | 10 S. | 144 | 189 | 182 | 197 | Oct. 5, 1897 | |
| Rochester, P T W R S | 43 | 08 | 77 | 42 | | 11 S. | 523 | 86 | 77 | 102 | Nov. 1, 1870 | |
| Roseburg, P T W R S | 43 | 13 | 123 | 20 | 3 | 13 S. | 510 | 9 | 4 | 57 | July 15, 1877 | |
| Roswell, P T W R S | 33 | 24 | 104 | 27 | 1 | 58 S. | 3,578 | 9 | 4 | 57 | Dec. 20, 1904 | |
| Sacramento, P T W R S | 38 | 35 | 121 | 30 | 3 | 06 S. | 69 | 106 | 100 | 117 | July 1, 1877 | |
| St. Louis, P T W R S | 38 | 38 | 90 | 12 | 1 | 01 S. | 567 | 208 | 199 | 217 | Nov. 1, 1870 | |
| St. Paul, P T W R S | 44 | 58 | 93 | 03 | 1 | 12 S. | 837 | 171 | 163 | 179 | .....do..... | |
| Salt Lake City, P T W R S | 40 | 46 | 111 | 54 | 2 | 28 S. | 4,360 | 147 | 141 | 189 | Mar. 19, 1874 | |
| San Antonio, P T W R S | 29 | 27 | 98 | 28 | 1 | 34 S. | 701 | 80 | 72 | 91 | Jan. 2, 1876 | |
| San Diego, P T W R S | 32 | 43 | 117 | 10 | 2 | 49 S. | 87 | 94 | 86 | 102 | Nov. 1, 1871 | |
| Sand Key, P T W R S | 24 | 27 | 81 | 53 | | 28 S. | 25 | 41 | 40 | 71 | June 1, 1903 | |
| Sandusky, P T W R S | 41 | 25 | 82 | 40 | | 31 S. | 629 | 62 | 55 | 70 | Aug. 2, 1877 | |
| San Francisco, P T W R S | 37 | 48 | 122 | 26 | 3 | 10 S. | 155 | 200 | 191 | 204 | Feb. 2, 1871 | |
| San Jose, P T W R S | 37 | 20 | 121 | 54 | 3 | 08 S. | 141 | 12 | 3 | 110 | Sept. 28, 1905 | |
| San Juan, P T W R S | 18 | 29 | 66 | 07 | | 36 F. | 82 | 48 | 40 | 90 | Oct. 31, 1898 | |
| San Luis Obispo, P T W R S | 35 | 18 | 120 | 39 | 3 | 03 S. | 201 | 47 | 40 | 54 | June 1, 1885 | |
| Santa Fe, P T W S | 35 | 41 | 105 | 57 | 2 | 04 S. | 7,013 | 8 | 3 | 56 | Nov. 20, 1871 | |
| Sault Ste. Marie, P T W R S | 46 | 30 | 84 | 21 | | 37 S. | 614 | 11 | 3 | 61 | Aug. 5, 1877 | |
| Savannah, P T W R S | 32 | 05 | 81 | 05 | | 24 S. | 65 | 150 | 143 | 194 | Jan. 1, 1871 | |
| Scranton, P T W R S | 41 | 24 | 75 | 42 | | 03 S. | 805 | 111 | 102 | 119 | Aug. 17, 1900 | |
| Seattle, P T W R S | 47 | 38 | 122 | 20 | 3 | 09 S. | 123 | 185 | 179 | 224 | May 1, 1893 | |
| Sheridan, P T | 44 | 48 | 106 | 57 | 2 | 08 S. | 3,790 | 9 | 2 | 47 | Apr. 29, 1907 | |
| Shreveport, P T W R S | 32 | 30 | 93 | 40 | 1 | 15 S. | 249 | 77 | 77 | 84 | Sept. 3, 1871 | |
| Sioux City, P T W R S | 42 | 29 | 96 | 24 | 1 | 26 S. | 1,135 | 96 | 86 | 164 | Dec. 1, 1887 | |
| Siskiyou | 42 | 03 | 122 | 39 | 3 | 11 S. | 4,115 | 4 | 5 | ..... | Sept. 1, 1908 | |
| Sitka | 57 | 04 | 135 | 20 | 4 | 01 S. | 90 | 3 | 2 | ..... | Mar. 26, 1881 | |
| S. E. Farallon, P T W R S | 37 | 42 | 123 | 00 | 3 | 12 S. | 30 | 9 | 3 | 17 | June 4, 1903 | |
| Spokane, P T W R S | 47 | 40 | 117 | 25 | 2 | 50 S. | 1,929 | 101 | 94 | 110 | Feb. 1, 1881 | |
| Springfield, Ill., P T W R S | 39 | 48 | 89 | 39 | | 59 S. | 644 | 10 | 4 | 91 | July 1, 1879 | |
| Springfield, Mo., P T W R S | 37 | 12 | 93 | 18 | 1 | 13 S. | 1,324 | 98 | 6 | 104 | June 3, 1882 | |
| Syracuse, P T W R S | 43 | 02 | 76 | 10 | | 05 S. | 597 | 97 | 65 | 113 | Aug. 22, 1902 | |
| Tacoma, P T W R S | 47 | 16 | 122 | 23 | 3 | 10 S. | 213 | 113 | 104 | 120 | May 1, 1897 | |
| Tampa, P T W R S | 27 | 57 | 82 | 27 | | 30 S. | 35 | 79 | 71 | 96 | Mar. 13, 1890 | |
| Tatoosh Island, P T W R S | 48 | 23 | 124 | 44 | 3 | 19 S. | 86 | 7 | 4 | 57 | Nov. 22, 1902 | |
| Taylor, P T W R S | 30 | 35 | 97 | 20 | 1 | 29 S. | 583 | 55 | 48 | 63 | Nov. 13, 1901 | |
| Thomasville, P T W R S | 30 | 48 | 83 | 58 | | 36 S. | 273 | 8 | 4 | 57 | Aug. 20, 1905 | |
| Toledo, P T W R S | 41 | 40 | 83 | 34 | | 34 S. | 628 | 207 | 201 | 246 | Nov. 1, 1870 | |
| Tonopah, P T W R S | 38 | 04 | 117 | 14 | 2 | 49 S. | 6,090 | 12 | 9 | 20 | July 9, 1906 | |
| Topeka, P T W R S | 39 | 03 | 95 | 41 | 1 | 23 S. | ..... | 85 | 76 | 101 | June 1, 1887 | |
| Valentine, P T W R S | 42 | 50 | 100 | 32 | 1 | 42 S. | 2,598 | 47 | 36 | 54 | Sept. 1, 1885 | |
| Vicksburg, P T W R S | 32 | 22 | 90 | 53 | 1 | 04 S. | 247 | 62 | 53 | 74 | Sept. 10, 1871 | |
| Wallace | 47 | 28 | 115 | 51 | 2 | 43 S. | 2,923 | 5 | 3 | ..... | Oct. 22, 1907 | |
| Walla Walla, P T W R S | 46 | 02 | 118 | 20 | 2 | 53 S. | 1,000 | 71 | 63 | 79 | Dec. 1, 1885 | |
| Washington city, P T W R S | 38 | 54 | 77 | 03 | | 08 S. | 112 | 62 | 42 | 85 | Nov. 1, 1870 | |
| Wichita, P T W R S | 37 | 41 | 97 | 20 | 1 | 29 S. | 1,358 | 98 | 91 | 121 | July 1, 1888 | |
| Williston, P T W R S | 48 | 09 | 103 | 35 | 1 | 54 S. | 1,872 | 14 | 4 | 56 | Nov. 24, 1893 | |
| Wilmington, P T W R S | 34 | 14 | 77 | 57 | | 12 S. | 78 | 81 | 76 | 91 | Jan. 1, 1871 | |
| Winnemucca, P W R S | 40 | 58 | 117 | 43 | 2 | 51 S. | 4,344 | 18 | 3 | 56 | July 1, 1877 | |
| Wytheville, P T W R S | 36 | 56 | 81 | 05 | | 24 S. | 2,293 | 40 | 32 | 47 | Nov. 10, 1902 | |
| Yankton, P T W R S | 42 | 54 | 97 | 28 | 1 | 30 S. | 1,233 | 49 | 42 | 57 | Apr. 1, 1873 | |
| Yellowstone Park, P T W R S | 44 | 58 | 110 | 42 | 2 | 23 S. | 6,200 | 11 | 4 | 48 | Dec. 2, 1903 | |
| Yuma, P T W S | 32 | 45 | 114 | 36 | 2 | 38 S. | 141 | 9 | 2 | 58 | Oct. 4, 1875 | |

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

WEST INDIAN STATIONS.

| Stations. | Latitude. | Longitude. | Local meridian time faster or slower than 75th meridian. | Elevation Dec. 31, 1909. | | | | Observations began. | Date of changes in elevation |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Barometer above sea. | Thermometer above ground. | Rain gage above ground. | Anemometer above ground. | | |
| **St. Kitts.**[1] | | | | | | | | | |
| Basseterre, **P T V** | ° ′ 17 18 | ° ′ 62 43 | h m 49 F. | *Feet.* 29 | *Feet.* ..... | *Feet.* ..... | *Feet.* ..... | Aug. 25, 1898 | |
| **Barbados.**[1] | | | | | | | | | |
| Bridgetown | 13 04 | 59 37 | 1 02 F. | 30 | ..... | ..... | ..... | Aug. 15, 1898 | |
| **Curaçao.**[1] | | | | | | | | | |
| Curaçao, **P T W** | 12 06 | 68 56 | 24 F. | 75 | ..... | ..... | ..... | Aug. 9, 1898 | |
| **Jamaica.**[1] | | | | | | | | | |
| Kingston, **P V** | 17 58 | 76 48 | 07 S. | 286 | ..... | ..... | ..... | Aug. 16, 1898 | |
| **Trinidad.**[1] | | | | | | | | | |
| Port of Spain, **P V** | 10 35 | 61 30 | 54 F. | 40 | ..... | ..... | ..... | Aug. 7, 1898 | |
| **Dominica.**[1] | | | | | | | | | |
| Roseau, **P V** | 15 17 | 61 23 | 54 F. | 25 | ..... | ..... | ..... | Oct. 20, 1898 | |
| **Porto Rico.**[1] | | | | | | | | | |
| San Juan, **P T W R S** | 18 29 | 66 07 | 36 F. | 82 | 48 | 40 | 90 | Nov. 1, 1898 | |
| **Santo Domingo.**[1] | | | | | | | | | |
| Santo Domingo | 18 28 | 69 53 | 20 F. | 57 | ..... | ..... | ..... | .....do..... | |
| **Turks Island.**[1] | | | | | | | | | |
| Grand Turk, **P V** | 21 21 | 71 07 | 16 F. | 11 | 6 | 2 | 20 | July 1, 1900 | |

[1] Reports received during the hurricane season, June 15 to November 15.

TABLE II.—CHANGES IN WEATHER BUREAU STATIONS DURING 1909.

ESTABLISHED.

| Stations. | Latitude. | Longitude. | Date of establishment. |
|---|---|---|---|
| REGULAR. | ° ′ | ° ′ | |
| Houston, Tex | 29 47 | 95 24 | Sept. 16 |
| SPECIAL METEOROLOGICAL. | | | |
| Aberdeen, Miss | | | Aug. 1 |
| Albany, Ga | | | Do. |
| Alexandria, La | | | Do. |
| Arcadia, Fla | | | Nov. 13 |
| Bainbridge, Ga | | | Aug. 1 |
| Ballinger, Tex | | | Do. |
| Baton Rouge, La | | | Do. |
| Billings, Mont | | | May 1 |
| Cheraw, S. C | | | Aug. 6 |
| Columbus, Miss | | | Aug. 1 |
| Corinth, Miss | | | July 1 |
| Dallas, Tex | | | Aug. 1 |
| Dardanelle, Ark | | | Do. |
| Decatur, Ala | | | Do. |
| Donaldsonville, La | | | Do. |
| Eagle, Alaska | | | June 24 |
| Eufaula, Ala | | | Aug. 1 |
| Fraser, Colo | | | Dec. 1 |
| Greenville, Miss | | | Aug. 1 |
| Greenwood, Miss | | | Do. |
| Helena, Ark | | | Do. |
| Kingstree, S. C | | | Aug. 6 |
| Manhattan, Kans | | | Aug. 1 |
| Maysville, Ky | | | Do. |
| Melville, La | | | Do. |
| Middleburg, Va | | | Apr. 1 |
| Monroe, La | | | Aug. 1 |
| Natchez, Miss | | | Do. |
| Newport, Ark | | | Do. |
| North Yakima, Wash | | | Mar. 1 |
| Paso Robles, Cal | | | July 1 |
| Pine Bluff, Ark | | | Aug. 1 |
| Prairie du Chien, Wis | | | Oct. 16 |
| Rome, Ga | | | Aug. 1 |
| Salida, Colo | | | Dec. 1 |
| Selma, Ala | | | Aug. 1 |
| Staunton, Va | | | Aug. 12 |
| Tanana, Alaska | | | Sept. 9 |
| Tulsa, Okla | | | Aug. 1 |
| Valdez, Alaska | | | Sept. 14 |
| Waco, Tex | | | Aug. 1 |
| West Point, Ga | | | Aug. 10 |
| Williamsburg, Ky | | | Oct. 16 |
| Yazoo City, Miss | | | Aug. 1 |
| COTTON. | | | |
| Clarksdale, Miss | | | July 1 |
| Portland, Ark | | | Apr. 16 |
| Rosedale, Miss | | | July 1 |
| CORN AND WHEAT. | | | |
| Dickinson, N. Dak | | | July 1 |
| Hays, Kans | | | Aug. 1 |
| Russell, Kans | | | Apr. 1 |
| RIVER. | | | |
| Cochrane, Ala | | | Oct. 16 |
| Corning, N. Y | | | July 2 |
| Decatur, Ala | | | Apr. 9 |
| Elizabethton, Tenn | | | Dec. 1 |
| Ellwood City, Pa | | | Feb. 1 |
| Finley, Tex | | | Dec. 1 |
| Fulton, Miss | | | Jan. 1 |
| RIVER—continued. | | | |
| Gore, Colo | | | May 11 |
| Great Bend, Kans | | | Apr. 1 |
| Greene, N. Y | | | Feb. 1 |
| Henderson, Ky | | | Aug. 1 |
| Hot Springs, Colo | | | May 11 |
| Hutchinson, Kans | | | Apr. 1 |
| Ringo Crossing, Tex | | | Dec. 1 |
| Willowpoint, N. Y | | | Feb. 1 |
| Wilsonville, Oreg | | | July 1 |
| RAINFALL. | | | |
| McPherson, Kans | | | Apr. 1 |
| Medora, Kans | | | Do. |
| Rhinelander, Wis | | | Dec. 1 |
| SNOWFALL. | | | |
| Alma, Colo | | | Feb. 1 |
| Alta, Wyo | | | Mar. 1 |
| Arthur, Nev | | | July 1 |
| Aspen Grove Ranch, N. Mex | | | Do. |
| Auldhurst, Colo | | | Mar. 1 |
| Aurora, N. Mex | | | July 1 |
| Austin, Nev | | | Do. |
| Baker, Utah | | | May 1 |
| Bald Butte, Mont | | | Feb. 1 |
| Bartles, Cal | | | May 1 |
| Basin, Utah | | | Do. |
| Bassett Creek, Mont | | | Feb. 1 |
| Bateman Ranch, N. Mex | | | July 1 |
| Battle Creek, Mont | | | Feb. 1 |
| Bear Valley Dam, Cal | | | May 1 |
| Bear Valley, Oreg | | | July 1 |
| Beech Creek, Oreg | | | Do. |
| Bellfountain, Oreg | | | May 1 |
| Berthold Agency, N. Dak | | | Apr. 1 |
| Big Timber Creek, Mont | | | Feb. 1 |
| Bijou, Cal | | | Apr. 10 |
| Bishops Creek Gold Co.'s Camp, Cal | | | Mar. 1 |
| Bison Mountain, Mont | | | Feb. 1 |
| Black Lake, N. Mex | | | June 1 |
| Blewett, Wash | | | Feb. 1 |
| Blue Canyon, Cal | | | Feb. 15 |
| Bluff Creek Ranch, Cal | | | Mar. 1 |
| Bocks Ranch, Idaho | | | Nov. 1 |
| Bodie, Cal | | | July 1 |
| Boreas, Colo | | | Feb. 1 |
| Bottineau, N. Dak | | | Do. |
| Boulder Mine, Idaho | | | July 1 |
| Breckenridge, Colo | | | Feb. 1 |
| Bridgeport, Cal | | | July 1 |
| Brockway, Cal | | | Apr. 10 |
| Broncho, N. Dak | | | Feb. 15 |
| Brownell, Cal | | | Mar. 15 |
| Buena Vista, Oreg | | | Apr. 10 |
| Bunker Hill, Cal | | | Nov. 1 |
| Burney, Cal | | | Mar. 15 |
| Burns Mill, Oreg | | | Apr. 10 |
| Butte Falls, Oreg | | | May 1 |
| Butte Creek House, Cal | | | Nov. 1 |
| Cabin Creek, Mont | | | Feb. 1 |
| California Gulch, Oreg | | | Mar. 15 |
| Cassells, Colo | | | Feb. 1 |
| Cataract Creek, Mont | | | Do. |
| Chacon, N. Mex | | | July 1 |
| Chester, Cal | | | Nov. 1 |
| Chlarsons Mill, Ariz | | | May 1 |
| Cinnabar Basin, Mont | | | Feb. 1 |

TABLE II—CHANGES IN WEATHER BUREAU STATIONS DURING 1909—Continued.

ESTABLISHED.

| Stations. | Latitude. | Longitude. | Date of establishment. |
|---|---|---|---|
| SNOWFALL—continued. | | | |
| Clemons, Mont. | | | Feb. 1 |
| Cliffs, Ariz. | | | Do. |
| Cliffs Ranger Station, Ariz. | | | Mar. 1 |
| Clover Valley, Cal. | | | Do. |
| Cochetopa, Colo. | | | Do. |
| Columbine, Colo. | | | Do. |
| Columbine Ranch, Colo. | | | Do. |
| Como, Colo. | | | Feb. 1 |
| Condido, N. Mex. | | | Mar. 1 |
| Cooke, Mont. | | | Feb. 1 |
| Cornucopia, Oreg. | | | June 1 |
| Cottonwood Creek, Mont. | | | Feb. 1 |
| Cracker Creek, Oreg. | | | Mar. 1 |
| Crawford, Idaho | | | July 1 |
| Crazy Creek Station, Wyo. | | | Aug. 1 |
| Crested Butte, Colo. | | | Feb. 1 |
| Cuchara Camps, Colo. | | | Do. |
| Cumbres, Colo. | | | Do. |
| Daunt, Cal. | | | Mar. 1 |
| Dead Horse Canyon, Cal. | | | June 1 |
| Delpine, Mont. | | | Feb. 1 |
| Deerfield, S. Dak. | | | July 1 |
| Dickinson, N. Dak. | | | Feb. 15 |
| Dillon, Colo. | | | Mar. 1 |
| Dirty Creek, Mont. | | | Feb. 1 |
| Dixie, Wash. | | | Do. |
| Dome Lake, Wyo. | | | Aug. 1 |
| Donner Ice Camp, Cal. | | | July 1 |
| Dorris, Cal. | | | Mar. 15 |
| Dorsey Station, Cal. | | | Mar. 1 |
| Downington-Pearl Route, Wyo. | | | Do. |
| Dry Creek, Mont. | | | Feb. 1 |
| Dry Wolf Camp, Mont. | | | June 1 |
| Dubois, Wyo. | | | July 1 |
| Dumont, S. Dak. | | | May 1 |
| Ducan, Oreg. | | | Do. |
| Eagle Lake, Cal. | | | Do. |
| East Gallatin River, Mont. | | | Feb. 1 |
| Edison Mine, N. Mex. | | | July 1 |
| Eldridge, Mont. | | | Feb. 1 |
| Elizabethtown, N. Mex. | | | July 1 |
| Elkhorn, Mont. | | | Feb. 1 |
| Elkhorn Ranch, Oreg. | | | June 1 |
| Elk Mountain, S. Dak. | | | July 1 |
| Embody, Oreg. | | | Apr. 10 |
| Emigrant Creek, Mont. | | | Feb. 1 |
| Emigrant Gap, Cal. | | | Feb. 15 |
| Englewood, S. Dak. | | | Feb. 1 |
| Estes Park Fish Hatchery, Colo. | | | Do. |
| Fairview, Colo. | | | Jan. 15 |
| Fales Hot Springs, Cal. | | | Mar. 15 |
| Filmore, Wyo. | | | Dec. 1 |
| Fir Glen, Oreg. | | | June 1 |
| Fish Creek, Mont. | | | Feb. 1 |
| Fishtail Creek, Mont. | | | Do. |
| Flathead Creek, Mont. | | | Do. |
| Fordyce Dam, Cal. | | | Nov. 1 |
| Four Hills, Cal. | | | Do. |
| Fredalba, Cal. | | | May 1 |
| Fredonia Pass, Cal. | | | Apr. 10 |
| Friese Summit, Utah | | | Mar. 15 |
| Frys Ranch, Colo. | | | Feb. 1 |
| Galice, Oreg. | | | June 1 |
| Garden Valley, Idaho | | | July 1 |
| Garfield, Colo. | | | Feb. 1 |
| Gilta, Cal. | | | Mar. 1 |
| Glen Alpine Springs, Cal. | | | Apr. 10 |
| Glenbrook, Nev. | | | Do. |
| SNOWFALL—continued. | | | |
| Goat Lake, Wash. | | | Mar. 15 |
| Gold Creek, Mont. | | | Feb. 1 |
| Gold Creek, Wash. | | | Mar. 15 |
| Government Saw Mill, Ariz. | | | May 1 |
| Grand Canyon, Ariz. | | | Mar. 1 |
| Grand Lake, Colo. | | | Feb. 1 |
| Grand View, Ariz. | | | Mar. 1 |
| Greenhorn, Oreg. | | | July 1 |
| Greenmont, S. Dak. | | | Feb. 1 |
| Grimes Pass, Idaho. | | | July 1 |
| Guler, Wash. | | | Feb. 1 |
| Gumboot, Oreg. | | | June 1 |
| Gurdane, Oreg. | | | July 1 |
| Haley, N. Dak. | | | Apr. 1 |
| Half Moon Pass, Mont. | | | Feb. 1 |
| Halfway House, Mont. | | | Apr. 10 |
| Happy Home, Oreg. | | | June 1 |
| Hardy Ranger Station, S. Dak. | | | Feb. 1 |
| Hartsel, Colo. | | | Do. |
| Harveys Ranch, S. Dak. | | | July 1 |
| Harveys Upper Ranch, N. Mex. | | | May 1 |
| Hat Creek, Mont. | | | July 1 |
| Hay Creek, Oreg. | | | Do. |
| Hazeldell, Oreg. | | | Apr. 10 |
| Hermit, Colo. | | | Feb. 1 |
| Hermit Lake, Colo. | | | Mar. 1 |
| Hilgard, Oreg. | | | June 1 |
| Hill City, S. Dak. | | | Feb. 1 |
| Hobart Mills, Cal. | | | July 1 |
| Hodges, N. Mex. | | | Mar. 1 |
| Holcomb Valley, Cal. | | | Apr. 10 |
| Hoover, Oreg. | | | July 1 |
| Hopewell, N. Mex. | | | Do. |
| Horsefly, Colo. | | | Do. |
| Howland Flat, Cal. | | | Nov. 1 |
| Howardville Station, Oreg. | | | May 1 |
| Ibex Mine, Oreg. | | | Mar. 1 |
| Idaho City, Idaho. | | | Feb. 1 |
| Inskip, Cal. | | | May 1 |
| Irene Mountain, Wash. | | | Mar. 15 |
| Ironside, Oreg. | | | July 1 |
| Tronton, Colo. | | | Do. |
| Irwin, Idaho. | | | May 1 |
| Jardine, Mont. | | | Feb. 1 |
| Johnsville, Cal. | | | Mar. 1 |
| Jones Canyon, Mont. | | | Feb. 1 |
| Kamela, Oreg. | | | Mar. 15 |
| Kirkham, Idaho. | | | Aug. 1 |
| Kirwin, Wyo. | | | May 1 |
| Knowles, Wyo. | | | Do. |
| La Porte, Cal. | | | Feb. 15 |
| Las Truchas, N. Mex. | | | Mar. 1 |
| Laurel, Wash. | | | Feb. 1 |
| La Veta Pass, Colo. | | | Do. |
| Lead, S. Dak. | | | Do. |
| Letter Box, Cal. | | | Mar. 1 |
| Likelys Mill, Cal. | | | Do. |
| Lilyglen, Oreg. | | | July 1 |
| Little Camas, Idaho. | | | Feb. 1 |
| Lolabama Ranch, Wyo. | | | May 1 |
| Long Gulch, Idaho. | | | July 1 |
| Long Valley, Oreg. | | | May 1 |
| Loon Creek, Idaho. | | | Aug. 1 |
| Lost Creek, Mont. | | | Feb. 1 |
| Lost Creek, Wash. | | | Mar. 15 |
| Lost Horse Creek, Mont. | | | Feb. 1 |
| Lowell Observatory, Ariz. | | | July 1 |
| Lundy, Cal. | | | Do. |

TABLE II.—CHANGES IN WEATHER BUREAU STATIONS DURING 1909—Continued.

ESTABLISHED.

| Stations. | Latitude. | Longitude. | Date of establishment. |
|---|---|---|---|
| SNOWFALL—continued. | | | |
| McCloud, Cal. | | | May 1 |
| McCumbers Ranch, Wash. | | | Mar. 15 |
| McKinney, Cal. | | | Dec. 1 |
| Mammoth Hot Springs No. 2, Oreg. | | | Mar. 15 |
| Markleeville, Cal. | | | July 1 |
| Marmarth, N. Dak. | | | Apr. 1 |
| Marshall Pass, Colo. | | | Feb. 1 |
| Maury, Oreg. | | | May 1 |
| Meacham, Oreg. | | | Mar. 1 |
| Meadow Creek, Mont. | | | Feb. 1 |
| Medicine Bow Mountain, Wyo. | | | Mar. 1 |
| Medora, N. Dak. | | | Feb. 15 |
| Merchant Valley, Utah. | | | July 1 |
| Metolius, Oreg. | | | Apr. 10 |
| Miller Prairie, Oreg. | | | July 1 |
| Mineral, Cal. | | | Nov. 1 |
| Mott, N. Dak. | | | Apr. 1 |
| Mountain Home, Oreg. | | | May 1 |
| Mountain Ranch, Oreg. | | | Apr. 10 |
| Mount Rose Ranch, Nev. | | | Mar. 15 |
| Musick, Oreg. | | | Apr. 10 |
| Nast, Colo. | | | Feb. 1 |
| Natural Bridge, Ariz. | | | July 1 |
| Nighthawk, Wash. | | | Feb. 1 |
| North Folk, Nev. | | | July 1 |
| North Lake, Colo. | | | Do. |
| Nye, Mont. | | | Feb. 1 |
| Oak Glen, Cal. | | | Mar. 1 |
| Ochoco, Oreg. | | | May 1 |
| Olsen Creek, Mont. | | | Feb. 1 |
| Ophir, Mont. | | | June 1 |
| Panguitch Lake, Utah. | | | Mar. 15 |
| Payson, Ariz. | | | July 1 |
| Pearl, Colo. | | | Mar. 1 |
| Pebble, Idaho. | | | July 1 |
| Peola, Wash. | | | Feb. 1 |
| Persist, Oreg. | | | May 1 |
| Pine, Idaho. | | | Feb. 1 |
| Pipestone Pass, Mont. | | | Do. |
| Pitkin, Colo. | | | Do. |
| Placerville, Idaho. | | | Do. |
| Platoro, Colo. | | | Feb. 15 |
| Pocatello Nursery, Idaho. | | | July 1 |
| Polaris, Mont. | | | Feb. 1 |
| Powers Ranch, Idaho. | | | Do. |
| Pratville, Cal. | | | Mar. 1 |
| Pyle Creek, Idaho. | | | July 1 |
| Quincy, Cal. | | | Mar. 1 |
| Rambler, Wyo. | | | Do. |
| Rattlesnake, Idaho. | | | Feb. 1 |
| Rebers Ranch, Mont. | | | Do. |
| Red Cliff, Colo. | | | Do. |
| Red Lodge, Mont. | | | July 1 |
| Red River Canyon, N. Mex. | | | Do. |
| Reese Creek, Mont. | | | Feb. 1 |
| Reserve, Oreg. | | | July 1 |
| Reston, Oreg. | | | May 1 |
| Rico, Colo. | | | Mar. 1 |
| Rimini, Mont. | | | Jan. 1 |
| Rochford, S. Dak. | | | July 1 |
| Rociada, N. Mex. | | | Mar. 1 |
| Rock Creek, Oreg. | | | May 1 |
| Rose Creek, Nev. | | | July 1 |
| Rosland, Oreg. | | | June 1 |
| Ruby Creek, Idaho. | | | Feb. 1 |
| Russells Ranch, Wash. | | | Mar. 1 |
| St. Cloud, Colo. | | | Feb. 1 |
| St. Elmo, Colo. | | | Do. |
| Saltese, Mont. | | | Feb. 1 |
| San Benito, Cal. | | | Apr. 10 |
| SNOWFALL—continued. | | | |
| Santa Fe Canyon Station, N. Mex. | | | Mar. 1 |
| Sedona, Ariz. | | | May 1 |
| Seven Oaks, Cal. | | | Mar. 1 |
| Sevier Mine, Utah. | | | July 1 |
| Sheep Creek, Mont. | | | Feb. 1 |
| Sheep Hill, Idaho. | | | Do. |
| Shields Ranch, Cal. | | | July 1 |
| Sierra City, Cal. | | | Nov. 1 |
| Sierraville, Cal. | | | Mar. 1 |
| Sill Mine, Colo. | | | Feb. 1 |
| Silver City, Idaho. | | | July 1 |
| Silver Creek, Cal. | | | Do. |
| Sisson, Cal. | | | May 1 |
| Smith Prairie, Idaho. | | | July 1 |
| Snowshoe, Mont. | | | Do. |
| Snyders Ranch, Wash. | | | Mar. 15 |
| South Pass City, Wyo. | | | July 1 |
| Spicer, Colo. | | | Mar. 1 |
| Spooners Ranch, Nev. | | | Apr. 10 |
| Spruce Lodge, Colo. | | | Feb. 1 |
| Squirrel Inn, Cal. | | | Mar. 1 |
| Starkey, Oreg. | | | May 1 |
| Steamboat Springs, Colo. | | | Jan. 15 |
| Stearn, Mont. | | | Feb. 1 |
| Stokes Ranch, Wash. | | | Do. |
| Sugar Creek, Oreg. | | | July 1 |
| Summit, Cal. | | | Mar. 1 |
| Summit, Oreg. | | | May 1 |
| Susanville, Oreg. | | | Apr. 10 |
| Sweetwater, Nev. | | | July 1 |
| Tahoe, Cal. | | | Dec. 1 |
| Tallac, Cal. | | | Apr. 10 |
| Tamarack, Cal. | | | Nov. 1 |
| Tamarack, Oreg. | | | July 1 |
| Taos Canyon Station, N. Mex. | | | June 1 |
| Telocaset, Oreg. | | | May 1 |
| Thomas, Ariz. | | | Do. |
| Thompsons, Ariz. | | | Do |
| Three Rivers, Cal. | | | Mar. 1 |
| Touchet Ridge, Wash. | | | Feb. 1 |
| Trail Creek, Mont. | | | Do. |
| Tripod Mountain, Idaho. | | | July 1 |
| Tyee, Wash. | | | Feb. 1 |
| Uncompahgre Plateau, Colo. | | | Mar. 1 |
| Vega, Colo. | | | Do. |
| Wallace, Wash. | | | Feb. 1 |
| Walloupa, Oreg. | | | May 1 |
| Wall Rock Mountain, Mont. | | | Feb. 1 |
| Warm Springs Creek, Mont. (near Homepark). | | | Do. |
| Warm Springs Creek, Mont. (near Jackson). | | | Do. |
| Washburn, N. Dak. | | | Apr. 1 |
| Wason, Colo. | | | July 1 |
| Waters Ranch, S. Dak. | | | Apr. 1 |
| Watson, Mont. | | | Feb. 1 |
| Weaverville, Cal. | | | Mar. 1 |
| Wells Meadow Ranger Station, Cal. | | | Do. |
| Wenaha Springs, Oreg. | | | Mar. 15 |
| Williams, Ariz. | | | Mar. 1 |
| Winfield, Colo. | | | Feb. 1 |
| Winsors Ranch, N. Mex. | | | Mar. 1 |
| Woodfords, Cal. | | | July 1 |
| Woodville, Mont. | | | June 1 |
| Wortman, Colo. | | | Feb. 1 |
| Yampa, Colo. | | | Jan. 15 |
| Young, Ariz. | | | July 1 |
| Yucaipe, Cal. | | | Mar. 1 |

TABLE II.—CHANGES IN WEATHER BUREAU STATIONS DURING 1909—Continued.

DISCONTINUED.

| Stations. | Latitude. | Longitude. | Date discontinued. |
|---|---|---|---|
| COTTON. | | | |
| Aberdeen, Miss. | | | July 31 |
| Albany, Ga. | | | Do. |
| Alexandria, La. | | | Do. |
| Bainbridge, Ga. | | | Do. |
| Ballinger, Tex. | | | Do. |
| Cheraw, S. C. | | | Aug. 5 |
| Columbus, Miss. | | | July 31 |
| Corinth, Miss. | | | June 30 |
| Dallas, Tex. | | | July 31 |
| Decatur, Ala. | | | Do. |
| Eufaula, Ala. | | | Do. |
| Greenville, Miss. | | | Do. |
| Greenwood, Miss. | | | Do. |
| Helena, Ark. | | | Do. |
| Houston, Tex. | | | Sept. 15 |
| Kingstree, S. C. | | | Aug. 5 |
| Melville, La. | | | July 31 |
| Monroe, La. | | | Do. |
| Natchez, Miss. | | | Do. |
| Newport, Ark. | | | Do. |
| Pine Bluff, Ark. | | | Do. |
| Rome, Ga. | | | Do. |
| Russellville, Ark. | | | Do. |
| Selma, Ala. | | | Do. |
| Tulsa, Okla. | | | Do. |
| Waco, Tex. | | | Do. |
| West Point, Ga. | | | Aug. 10 |
| Yazoo City, Miss. | | | July 31 |
| SUGAR AND RICE. | | | |
| Baton Rouge, La. | | | July 31 |
| Donaldsonville, La. | | | Do. |
| CORN AND WHEAT. | | | |
| Dickinson, N. Dak. | | | Aug. 31 |
| Manhattan, Kans. | | | July 31 |
| Maysville, Ky. | | | Do. |
| Paducah, Ky. | | | June 30 |
| Pomeroy, Ohio. | | | Apr. 30 |
| Prairie du Chien, Wis. | | | Oct. 15 |
| Russell, Kans. | | | May 31 |
| Williamsburg, Ky. | | | Oct. 15 |
| RIVER. | | | |
| Aberdeen, Miss. | | | July 31 |
| Albany, Ga. | | | Do. |
| Alexandria, La. | | | Do. |
| Bainbridge, Ga. | | | Do. |
| Ballinger, Tex. | | | Do. |
| Baton Rouge, La. | | | Do. |
| Boonford, N. C. | | | Oct. 31 |
| Cheraw, S. C. | | | Aug. 5 |
| Cohoes, N. Y. | | | Oct. 31 |
| Columbus, Miss. | | | July 31 |
| Dallas, Tex. | | | Do. |
| Dardanelle, Ark. | | | Do. |
| Decatur, Ala. | | | Do. |
| Donaldsonville, La. | | | Do. |
| RIVER—continued. | | | |
| Eufaula, Ala. | | | July 31 |
| Florence, Colo. | | | May 10 |
| Fort Hunter, N. Y. | | | Oct. 31 |
| Greenville, Miss. | | | July 31 |
| Greenwood, Miss. | | | Do. |
| Helena, Ark. | | | Do. |
| Kilbourn, Wis. | | | Apr. 15 |
| Kingstree, S. C. | | | Aug. 5 |
| Manhattan, Kans. | | | July 31 |
| Maysville, Ky. | | | Do. |
| Melville, La. | | | Do. |
| Monroe, La. | | | Do. |
| Natchez, Miss. | | | Do. |
| New Martinsville, W. Va. | | | May 31 |
| Newport, Ark. | | | July 31 |
| Pine Bluff, Ark. | | | Do. |
| Prairie du Chien, Wis. | | | Oct. 15 |
| Rome, Ga. | | | July 31 |
| St. Joseph, Mo. | | | Dec. 31 |
| Salida, Colo. | | | Nov. 30 |
| Selma, Ala. | | | July 31 |
| Sistersville, W. Va. | | | May 31 |
| Tulsa, Okla. | | | July 31 |
| Vienna, Ala. | | | July 6 |
| Waco, Tex. | | | July 31 |
| Weston, W. Va. | | | Apr. 30 |
| West Point, Ga. | | | Aug. 10 |
| Williamsburg, Ky. | | | Oct. 15 |
| Yazoo City, Miss. | | | July 31 |
| RAINFALL. | | | |
| Alexandria, Minn. | | | July 31 |
| Buena Vista, Va. | | | Nov. 30 |
| Elizabethton, Tenn. | | | Do. |
| SNOWFALL. | | | |
| Bonanza, Idaho. | | | July 31 |
| Calls Ranch, Idaho. | | | Sept. 20 |
| Cerro Alto, Cal. | | | Sept. 30 |
| Deep Creek, Mont. | | | Nov. 30 |
| Dillon, Wyo. | | | Aug. 30 |
| Dunlap Ranch, Cal. | | | June 15 |
| Friis Camp, Cal. | | | Sept. 2 |
| Halfway House, Idaho. | | | July 7 |
| Ignacio, Colo. | | | Oct. 31 |
| Kaler Basin, Oreg. | | | Dec. 31 |
| Maine, Ariz. | | | Nov. 30 |
| Merrill, Oreg. | | | Sept. 2 |
| Mineral Hill Mine, Idaho. | | | Mar. 31 |
| Mount Eldron, Ariz. | | | Oct. 31 |
| Mountain View, Wash. | | | July 1 |
| Pine Creek, Mont. | | | Do. |
| Scott Bar, Cal. | | | Sept. 3 |
| Skyland Resort, Cal. | | | July 1 |
| Sullivan Lake, Wash. | | | Dec. 22 |
| Summit Station, Cal. | | | June 15 |
| Tarryall, Colo. | | | May 30 |
| Tumalo Creek, Oreg. | | | Aug. 10 |

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# SUNSHINE, 1909.

The following tables give for 125 stations the monthly amounts of sunshine and percentage of the possible, as derived from the automatic, records made by an instrument designated the thermometric recorder illustrated in the preceding volumes of this series.

This instrument does not record satisfactorily the duration of sunshine for about one hour after sunrise and about one hour before sunset, and on this account it has been considered necessary to apply to the record for these hours what has been designated a "twilight correction." The amount of this correction is found by noting the comparative clearness of the sky during the time that elapses between the hour of sunrise and the moment the instrument begins to record and between the time the instrument ceases to act and the hour of sunset.

The average cloudiness of the whole sky is determined by numerous personal observations at all stations during the daytime, and is given in the column "daylight" under "cloudiness" in the tables of Part III.

SUNSHINE, 1909.

| Stations. | January. | | February. | | March. | | April. | | May. | | June. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. |
| Albany, N. Y. | 86 | 30 | 113 | 38 | 188 | 51 | 196 | 49 | 223 | 49 | 235 | 51 |
| Amarillo, Tex. | 280 | 89 | 278 | 91 | 315 | 85 | 357 | 91 | 392 | 90 | 365 | 84 |
| Asheville, N. C. | 138 | 44 | 184 | 60 | 191 | 51 | 239 | 61 | 252 | 58 | 229 | 52 |
| Atlanta, Ga. | 141 | 45 | 173 | 56 | 235 | 63 | 271 | 69 | 312 | 72 | 286 | 66 |
| Atlantic City, N. J. | 135 | 45 | 169 | 56 | 215 | 58 | 224 | 56 | 271 | 61 | 256 | 57 |
| Augusta, Ga. | 162 | 51 | 212 | 69 | 225 | 60 | 223 | 57 | 280 | 65 | 254 | 59 |
| Baltimore, Md. | 137 | 45 | 168 | 56 | 218 | 59 | 229 | 58 | 291 | 65 | 265 | 60 |
| Bentonville, Ark. | 74 | 24 | 188 | 62 | 192 | 52 | 235 | 60 | 278 | 64 | 249 | 57 |
| Binghamton, N. Y. | 67 | 23 | 58 | 19 | 128 | 34 | 146 | 36 | 189 | 42 | 228 | 50 |
| Birmingham, Ala. | 140 | 44 | 179 | 58 | 205 | 55 | 236 | 60 | 237 | 55 | 250 | 58 |
| Bismarck, N. Dak. | 123 | 44 | 127 | 44 | 152 | 41 | 213 | 52 | 260 | 55 | 258 | 54 |
| Block Island, R. I. | 84 | 28 | 102 | 34 | 196 | 53 | 196 | 49 | 243 | 54 | 275 | 61 |
| Boise, Idaho | 97 | 34 | 100 | 34 | 236 | 64 | 316 | 78 | 341 | 75 | 401 | 87 |
| Boston, Mass. | 102 | 35 | 155 | 52 | 223 | 60 | 237 | 59 | 283 | 63 | 360 | 79 |
| Buffalo, N. Y. | 103 | 35 | 68 | 23 | 137 | 37 | 179 | 44 | 204 | 45 | 287 | 62 |
| Burlington, Vt. | 89 | 31 | 136 | 46 | 203 | 55 | 155 | 38 | 198 | 43 | 298 | 64 |
| Canton, N. Y. | 66 | 23 | 126 | 43 | 208 | 56 | 175 | 43 | 211 | 46 | 297 | 64 |
| Charles City, Iowa. | 134 | 46 | 163 | 55 | 255 | 69 | 234 | 58 | 318 | 70 | 340 | 52 |
| Charleston, S. C. | 160 | 50 | 205 | 66 | 226 | 61 | 234 | 60 | 312 | 73 | 308 | 72 |
| Chattanooga, Tenn. | 65 | 21 | 147 | 48 | 179 | 48 | 207 | 53 | 234 | 54 | 203 | 47 |
| Cheyenne, Wyo. | 190 | 64 | 222 | 74 | 280 | 76 | 262 | 65 | 276 | 61 | 311 | 69 |
| Chicago, Ill. | 99 | 33 | 90 | 30 | 147 | 40 | 183 | 46 | 306 | 68 | 248 | 55 |
| Cincinnati, Ohio. | 87 | 29 | 132 | 44 | 184 | 50 | 256 | 64 | 284 | 64 | 295 | 66 |
| Cleveland, Ohio. | 68 | 22 | 77 | 26 | 177 | 48 | 185 | 46 | 260 | 58 | 271 | 60 |
| Columbia, Mo. | 112 | 37 | 174 | 58 | 207 | 56 | 220 | 55 | 294 | 66 | 279 | 63 |
| Columbus, Ohio. | 72 | 24 | 100 | 33 | 105 | 28 | 165 | 41 | 273 | 61 | 275 | 61 |
| Concordia, Kans. | 197 | 66 | 244 | 82 | 327 | 88 | 364 | 91 | 381 | 85 | 334 | 74 |
| Denver, Colo. | 149 | 50 | 208 | 69 | 228 | 62 | 258 | 65 | 237 | 53 | 266 | 59 |
| Des Moines, Iowa. | 82 | 28 | 142 | 48 | 181 | 49 | 189 | 47 | 299 | 66 | 282 | 62 |
| Detroit, Mich. | 88 | 30 | 76 | 26 | 137 | 37 | 156 | 39 | 284 | 63 | 242 | 53 |
| Devils Lake, N. Dak. | 140 | 51 | 134 | 47 | 213 | 58 | 237 | 58 | 267 | 57 | 334 | 70 |
| Dodge, Kans. | 211 | 69 | 229 | 76 | 243 | 65 | 315 | 80 | 344 | 78 | 340 | 77 |
| Dubuque, Iowa. | 88 | 30 | 110 | 37 | 167 | 45 | 166 | 41 | 266 | 59 | 216 | 48 |
| Durango, Colo. | 170 | 55 | 213 | 70 | 263 | 71 | 288 | 73 | 332 | 76 | 405 | 92 |
| Eastport, Me. | 96 | 34 | 124 | 43 | 181 | 49 | 182 | 45 | 205 | 44 | 268 | 58 |
| Elkins, W. Va. | 97 | 32 | 120 | 40 | 148 | 40 | 227 | 57 | 287 | 65 | 262 | 59 |
| El Paso, Tex. | 215 | 67 | 255 | 82 | 280 | 75 | 361 | 93 | 403 | 94 | 385 | 90 |
| Erie, Pa. | 74 | 25 | 70 | 24 | 139 | 37 | 204 | 51 | 256 | 57 | 248 | 54 |
| Escanaba, Mich. | 112 | 40 | 112 | 39 | 202 | 55 | 175 | 43 | 246 | 53 | 321 | 68 |
| Eureka, Cal. | 125 | 42 | 102 | 34 | 187 | 50 | 323 | 81 | 305 | 68 | 263 | 58 |
| Flagstaff, Ariz. | 235 | 75 | 241 | 79 | 300 | 81 | 348 | 89 | 385 | 89 | 404 | 93 |
| Fort Smith, Ark. | 89 | 28 | 208 | 68 | 218 | 59 | 245 | 62 | 281 | 65 | 270 | 62 |
| Fresno, Cal. | 94 | 30 | 129 | 42 | 245 | 63 | 362 | 92 | 423 | 97 | 406 | 92 |
| Galveston, Tex. | 224 | 69 | 206 | 66 | 253 | 68 | 261 | 67 | 305 | 72 | 356 | 85 |
| Grand Haven, Mich. | 94 | 32 | 89 | 30 | 171 | 46 | 182 | 45 | 271 | 60 | 265 | 58 |
| Grand Junction, Colo. | 94 | 31 | 174 | 58 | 228 | 61 | 230 | 58 | 275 | 62 | 332 | 75 |
| Grand Rapids, Mich. | 84 | 29 | 73 | 25 | 148 | 40 | 165 | 41 | 253 | 56 | 254 | 55 |
| Green Bay, Wis. | 117 | 41 | 113 | 39 | 187 | 50 | 155 | 38 | 272 | 59 | 323 | 69 |
| Harrisburg, Pa. | 120 | 40 | 107 | 36 | 189 | 51 | 198 | 50 | 252 | 57 | 228 | 51 |
| Hartford, Conn. | 80 | 27 | 110 | 37 | 193 | 52 | 198 | 49 | 221 | 49 | 238 | 52 |
| Havre, Mont. | 134 | 49 | 160 | 56 | 295 | 80 | 275 | 67 | 331 | 70 | 354 | 73 |
| Helena, Mont. | 129 | 46 | 142 | 49 | 248 | 67 | 232 | 57 | 266 | 57 | 269 | 57 |
| Honolulu, Hawaii | 212 | 62 | 192 | 60 | 178 | 48 | 204 | 54 | 260 | 64 | 230 | 57 |
| Huron, S. Dak. | 166 | 57 | 169 | 58 | 210 | 57 | 225 | 56 | 318 | 69 | 326 | 70 |
| Indianapolis, Ind. | 80 | 26 | 159 | 53 | 203 | 55 | 220 | 55 | 244 | 55 | 318 | 71 |

SUNSHINE, 1909—Continued.

| Stations. | July. | | August. | | September. | | October. | | November. | | December. | | Annual. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hour. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. |
| Albany, N. Y. | 266 | 57 | 219 | 51 | 167 | 44 | 123 | 36 | 109 | 37 | 118 | 42 | 2,042 | 45 |
| Amarillo, Tex. | 370 | 84 | 324 | 78 | 298 | 80 | 271 | 77 | 216 | 70 | 212 | 69 | 3,680 | 82 |
| Asheville, N. C. | 247 | 56 | 285 | 68 | 190 | 51 | 252 | 72 | 219 | 71 | 156 | 52 | 2,580 | 58 |
| Atlanta, Ga. | 284 | 65 | 293 | 71 | 255 | 69 | 301 | 86 | 250 | 80 | 180 | 59 | 2,981 | 67 |
| Atlantic City, N. J. | 332 | 73 | 285 | 67 | 231 | 62 | 251 | 73 | 173 | 57 | 177 | 60 | 2,720 | 60 |
| Augusta, Ga. | 238 | 55 | 270 | 65 | 215 | 58 | 282 | 80 | 218 | 69 | 167 | 54 | 2,746 | 62 |
| Baltimore, Md. | 319 | 71 | 297 | 70 | 246 | 66 | 225 | 65 | 173 | 57 | 184 | 63 | 2,754 | 61 |
| Bentonville, Ark. | 351 | 79 | 293 | 70 | 270 | 72 | 249 | 71 | 143 | 47 | 191 | 63 | 2,712 | 60 |
| Binghamton, N. Y. | 281 | 61 | 243 | 57 | 169 | 45 | 97 | 28 | 86 | 29 | 34 | 12 | 1,726 | 36 |
| Birmingham, Ala. | 301 | 68 | 294 | 71 | 233 | 63 | 291 | 83 | 231 | 74 | 144 | 47 | 2,742 | 61 |
| Bismarck, N. Dak. | 285 | 59 | 299 | 68 | 180 | 48 | 219 | 65 | 129 | 46 | 117 | 44 | 2,362 | 52 |
| Block Island, R. I. | 360 | 79 | 295 | 69 | 215 | 58 | 222 | 64 | 121 | 41 | 137 | 48 | 2,445 | 53 |
| Boise, Idaho | 411 | 88 | 376 | 87 | 257 | 69 | 253 | 74 | 103 | 36 | 84 | 30 | 2,976 | 63 |
| Boston, Mass. | 374 | 81 | 314 | 73 | 213 | 57 | 225 | 66 | 119 | 40 | 157 | 55 | 2,763 | 60 |
| Buffalo, N. Y. | 326 | 70 | 296 | 69 | 214 | 57 | 96 | 28 | 111 | 38 | 44 | 16 | 2,063 | 44 |
| Burlington, Vt. | 265 | 57 | 258 | 60 | 175 | 47 | 124 | 36 | 83 | 29 | 41 | 15 | 2,025 | 43 |
| Canton, N. Y. | 240 | 51 | 295 | 68 | 211 | 56 | 128 | 38 | 99 | 34 | 35 | 13 | 2,092 | 45 |
| Charles City, Iowa. | 373 | 80 | 356 | 83 | 245 | 65 | 232 | 68 | 135 | 46 | 99 | 35 | 2,883 | 60 |
| Charleston, S. C. | 285 | 65 | 276 | 67 | 291 | 78 | 313 | 89 | 235 | 75 | 227 | 73 | 3,071 | 69 |
| Chattanooga, Tenn. | 259 | 59 | 269 | 65 | 215 | 58 | 278 | 79 | 208 | 67 | 151 | 50 | 2,416 | 54 |
| Cheyenne, Wyo. | 358 | 78 | 296 | 69 | 250 | 67 | 256 | 74 | 128 | 43 | 183 | 64 | 3,012 | 67 |
| Chicago, Ill. | 312 | 68 | 309 | 72 | 256 | 68 | 206 | 60 | 137 | 47 | 130 | 46 | 2,423 | 53 |
| Cincinnati, Ohio. | 295 | 65 | 346 | 82 | 271 | 73 | 233 | 67 | 187 | 62 | 120 | 41 | 2,689 | 59 |
| Cleveland, Ohio. | 313 | 68 | 294 | 69 | 220 | 59 | 183 | 53 | 134 | 45 | 80 | 28 | 2,262 | 48 |
| Columbia, Mo. | 271 | 60 | 340 | 80 | 215 | 58 | 240 | 69 | 139 | 46 | 133 | 45 | 2,624 | 58 |
| Columbus, Ohio. | 288 | 63 | 306 | 72 | 226 | 61 | 221 | 64 | 126 | 42 | 144 | 50 | 2,302 | 50 |
| Concordia, Kans. | 369 | 81 | 374 | 88 | 291 | 78 | 243 | 70 | ..... | .... | 152 | 52 | ..... | .... |
| Denver, Colo. | 374 | 82 | 278 | 65 | 246 | 66 | 275 | 80 | 134 | 45 | 161 | 55 | 2,812 | 63 |
| Des Moines, Iowa. | 290 | 63 | 361 | 84 | 238 | 64 | 202 | 59 | 99 | 34 | 110 | 38 | 2,474 | 54 |
| Detroit, Mich. | 298 | 65 | 290 | 68 | 210 | 56 | 171 | 50 | 111 | 38 | 62 | 22 | 2,124 | 46 |
| Devils Lake, N. Dak. | 339 | 70 | 325 | 74 | 288 | 76 | 181 | 54 | 141 | 51 | 97 | 37 | 2,697 | 59 |
| Dodge, Kans. | 366 | 81 | 330 | 78 | 309 | 83 | 244 | 70 | 195 | 64 | 191 | 64 | 3,317 | 74 |
| Dubuque, Iowa. | 301 | 65 | 277 | 65 | 202 | 54 | 199 | 58 | 134 | 45 | 102 | 36 | 2,229 | 49 |
| Durango, Colo. | 333 | 74 | 256 | 61 | 308 | 83 | 305 | 88 | 211 | 69 | 192 | 64 | 3,276 | 73 |
| Eastport, Me. | 234 | 50 | 210 | 48 | 122 | 32 | 158 | 47 | 105 | 37 | 95 | 35 | 1,981 | 44 |
| Elkins, W. Va. | 259 | 57 | 235 | 56 | 187 | 50 | 190 | 55 | 128 | 43 | 75 | 25 | 2,214 | 48 |
| El Paso, Tex. | 343 | 79 | 324 | 79 | 319 | 86 | 340 | 96 | 289 | 92 | 236 | 75 | 3,750 | 84 |
| Erie, Pa. | 362 | 79 | 361 | 84 | 262 | 70 | 161 | 47 | 152 | 52 | 80 | 28 | 2,368 | 51 |
| Escanaba, Mich. | 334 | 70 | 228 | 52 | 198 | 53 | 148 | 44 | 82 | 29 | 102 | 38 | 2,260 | 49 |
| Eureka, Cal. | 224 | 49 | 200 | 47 | 170 | 46 | 145 | 42 | 81 | 27 | 152 | 53 | 2,278 | 50 |
| Flagstaff, Ariz. | 302 | 69 | 181 | 44 | 299 | 80 | 344 | 98 | 256 | 83 | 196 | 64 | 3,493 | 79 |
| Fort Smith, Ark. | 352 | 80 | 284 | 68 | 266 | 72 | 266 | 76 | 165 | 53 | 163 | 53 | 2,806 | 62 |
| Fresno, Cal. | 444 | 99 | 397 | 95 | 323 | 75 | 282 | 81 | 216 | 71 | 117 | 39 | 3,438 | 73 |
| Galveston, Tex. | 354 | 83 | 316 | 78 | 314 | 85 | 306 | 86 | 246 | 76 | 180 | 56 | 3,321 | 74 |
| Grand Haven, Mich. | 326 | 70 | 278 | 64 | 232 | 62 | 184 | 54 | 126 | 43 | 20 | 7 | 2,237 | 48 |
| Grand Junction, Colo. | 315 | 70 | 231 | 55 | 241 | 65 | 247 | 71 | 151 | 50 | 158 | 54 | 2,676 | 59 |
| Grand Rapids, Mich. | 337 | 73 | 269 | 62 | 220 | 59 | 145 | 42 | 113 | 39 | 34 | 12 | 2,095 | 44 |
| Green Bay, Wis. | 378 | 80 | 311 | 72 | 252 | 67 | 201 | 59 | 123 | 43 | 89 | 32 | 2,520 | 54 |
| Harrisburg, Pa. | 302 | 66 | 275 | 65 | 250 | 67 | 215 | 62 | 148 | 49 | 150 | 52 | 2,433 | 54 |
| Hartford, Conn. | 296 | 64 | 218 | 51 | 148 | 39 | 159 | 46 | 102 | 34 | 160 | 56 | 2,122 | 46 |
| Havre, Mont. | 337 | 69 | 374 | 84 | 245 | 65 | 191 | 57 | 75 | 27 | 59 | 23 | 2,830 | 60 |
| Helena, Mont. | 344 | 72 | 351 | 80 | 177 | 47 | 198 | 59 | 98 | 35 | 104 | 39 | 2,558 | 55 |
| Honolulu, Hawaii. | 202 | 49 | 269 | 68 | 248 | 67 | 223 | 62 | 246 | 73 | 156 | 46 | 2,620 | 59 |
| Huron, S. Dak. | 334 | 71 | 360 | 83 | 243 | 65 | 196 | 57 | 117 | 40 | 92 | 33 | 2,754 | 60 |
| Indianapolis, Ind. | 306 | 67 | 363 | 85 | 280 | 75 | 226 | 66 | 164 | 55 | 112 | 39 | 2,675 | 58 |

SUNSHINE, 1909—Continued.

| Stations. | January. | | February. | | March. | | April. | | May. | | June. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. |
| Jacksonville, Fla | 182 | 56 | 221 | 71 | 264 | 71 | 254 | 66 | 286 | 68 | 301 | 71 |
| Jupiter, Fla | 173 | 52 | 192 | 61 | 258 | 69 | 217 | 57 | 270 | 65 | 256 | 62 |
| Kalispell, Mont | 82 | 30 | 75 | 26 | 199 | 54 | 190 | 46 | 207 | 44 | 249 | 52 |
| Kansas City, Mo | 109 | 36 | 180 | 60 | 230 | 62 | 234 | 59 | 299 | 67 | 285 | 64 |
| Knoxville, Tenn | 77 | 25 | 152 | 50 | 178 | 48 | 230 | 58 | 263 | 60 | 223 | 51 |
| La Crosse, Wis | 119 | 41 | 101 | 34 | 179 | 48 | 165 | 41 | 270 | 59 | 276 | 60 |
| Lander, Wyo | 210 | 72 | 215 | 73 | 252 | 68 | 295 | 73 | 300 | 66 | 334 | 73 |
| La Salle, Ill | 103 | 35 | 153 | 51 | 201 | 54 | 205 | 51 | 306 | 68 | 269 | 60 |
| Lexington, Ky | 46 | 15 | 103 | 34 | 104 | 28 | 202 | 51 | 246 | 56 | 263 | 59 |
| Little Rock, Ark | 84 | 27 | 181 | 59 | 226 | 61 | 261 | 66 | 257 | 59 | 284 | 65 |
| Los Angeles, Cal | 173 | 55 | 191 | 62 | 258 | 69 | 294 | 75 | 301 | 70 | 303 | 70 |
| Louisville, Ky | 49 | 16 | 101 | 34 | 125 | 34 | 194 | 49 | 212 | 48 | 243 | 55 |
| Lynchburg, Va | 122 | 40 | 152 | 50 | 206 | 56 | 216 | 55 | 267 | 61 | 238 | 54 |
| Macon, Ga | 146 | 46 | 177 | 57 | 208 | 56 | 230 | 59 | 254 | 59 | 255 | 60 |
| Madison, Wis | 92 | 32 | 125 | 42 | 169 | 46 | 146 | 36 | 270 | 59 | 270 | 59 |
| Marquette, Mich | 106 | 38 | 90 | 31 | 192 | 52 | 193 | 47 | 285 | 61 | 320 | 67 |
| Memphis, Tenn | 101 | 32 | 188 | 61 | 206 | 56 | 273 | 70 | 273 | 63 | 321 | 74 |
| Meridian, Miss | 153 | 48 | 188 | 61 | 212 | 57 | 219 | 56 | 210 | 49 | 181 | 42 |
| Milwaukee, Wis | 134 | 46 | 117 | 40 | 193 | 52 | 201 | 50 | 330 | 72 | 311 | 68 |
| Mobile, Ala | 154 | 48 | 194 | 62 | 199 | 54 | 212 | 55 | 254 | 60 | 250 | 59 |
| Modena, Utah | 132 | 43 | 175 | 58 | 224 | 60 | 304 | 77 | 365 | 83 | 409 | 92 |
| Mount Tamalpais, Cal | 58 | 19 | 150 | 50 | 241 | 65 | 371 | 94 | 421 | 95 | 408 | 92 |
| Mount Weather, Va | 133 | 44 | 138 | 46 | 213 | 57 | 247 | 62 | 285 | 64 | 245 | 55 |
| New Haven, Conn | 115 | 39 | 137 | 46 | 204 | 55 | 204 | 51 | 230 | 51 | 233 | 52 |
| New Orleans, La | 163 | 50 | 145 | 47 | 211 | 57 | 214 | 55 | 227 | 54 | 251 | 60 |
| New York, N. Y | 134 | 45 | 145 | 49 | 217 | 59 | 226 | 57 | 271 | 60 | 284 | 63 |
| Norfolk, Va | 155 | 50 | 182 | 60 | 218 | 59 | 235 | 60 | 287 | 65 | 246 | 56 |
| Northfield, Vt | 89 | 31 | 136 | 46 | 231 | 62 | 187 | 46 | 255 | 56 | 336 | 73 |
| North Head, Wash | 31 | 11 | 38 | 13 | 162 | 44 | 192 | 47 | 214 | 46 | 240 | 51 |
| North Platte, Nebr | 182 | 61 | 220 | 74 | 231 | 62 | 260 | 65 | 297 | 66 | 271 | 60 |
| Oklahoma, Okla | 122 | 39 | 203 | 66 | 225 | 61 | 262 | 67 | 312 | 72 | 300 | 69 |
| Omaha, Nebr | 98 | 33 | 164 | 55 | 196 | 53 | 201 | 50 | 282 | 63 | 278 | 62 |
| Parkersburg, W. Va | 56 | 19 | 92 | 31 | 139 | 37 | 204 | 51 | 275 | 62 | 254 | 57 |
| Peoria, Ill | 100 | 34 | 156 | 52 | 232 | 63 | 244 | 61 | 320 | 71 | 307 | 68 |
| Philadelphia, Pa | 131 | 44 | 123 | 41 | 209 | 56 | 215 | 54 | 258 | 58 | 236 | 53 |
| Phoenix, Ariz | 243 | 76 | 250 | 81 | 319 | 86 | 371 | 95 | 413 | 96 | 403 | 94 |
| Pittsburg, Pa | 89 | 30 | 87 | 29 | 148 | 40 | 201 | 50 | 256 | 57 | 250 | 55 |
| Pocatello, Idaho | 110 | 38 | 124 | 42 | 190 | 51 | 274 | 68 | 293 | 64 | 315 | 69 |
| Port Huron, Mich | 108 | 37 | 98 | 33 | 157 | 42 | 166 | 41 | 241 | 53 | 248 | 54 |
| Portland, Me | 134 | 46 | 167 | 57 | 221 | 60 | 208 | 51 | 240 | 53 | 327 | 71 |
| Portland, Oreg | 47 | 17 | 57 | 20 | 185 | 50 | 209 | 51 | 222 | 48 | 324 | 69 |
| Providence, R. I | 104 | 35 | 140 | 47 | 198 | 53 | 194 | 48 | 212 | 48 | 258 | 57 |
| Pueblo, Colo | 206 | 67 | 252 | 83 | 263 | 71 | 296 | 75 | 324 | 73 | 352 | 79 |
| Raleigh, N. C | 152 | 49 | 181 | 59 | 210 | 57 | 238 | 60 | 279 | 64 | 260 | 59 |
| Rapid City, S. Dak | 160 | 55 | 194 | 66 | 273 | 74 | 222 | 55 | 260 | 57 | 290 | 63 |
| Richmond, Va | 140 | 46 | 159 | 53 | 218 | 59 | 229 | 58 | 263 | 60 | 257 | 58 |
| Rochester, N. Y | 63 | 21 | 75 | 25 | 163 | 44 | 194 | 48 | 247 | 54 | 294 | 64 |
| Roswell, N. Mex | 208 | 66 | 228 | 74 | 244 | 66 | 326 | 83 | 329 | 76 | 272 | 63 |
| Sacramento, Cal | 60 | 20 | 123 | 41 | 208 | 56 | 353 | 89 | 397 | 89 | 392 | 88 |
| St. Louis, Mo | 69 | 23 | 150 | 50 | 153 | 41 | 225 | 57 | 266 | 60 | 209 | 47 |
| St. Paul, Minn | 151 | 53 | 175 | 60 | 228 | 62 | 243 | 60 | 308 | 67 | 309 | 66 |
| Salt Lake City, Utah | 129 | 43 | 109 | 37 | 195 | 53 | 244 | 61 | 298 | 66 | 347 | 77 |
| San Antonio, Tex | 150 | 46 | 171 | 55 | 214 | 57 | 221 | 57 | 230 | 55 | 282 | 67 |
| San Diego, Cal | 150 | 47 | 179 | 58 | 226 | 61 | 252 | 65 | 204 | 47 | 204 | 48 |
| San Francisco, Cal | 55 | 18 | 132 | 44 | 209 | 56 | 317 | 80 | 374 | 85 | 359 | 81 |

SUNSHINE, 1909—Continued.

| Stations. | July. | | August. | | September. | | October. | | November. | | December. | | Annual. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. |
| Jacksonville, Fla. | 262 | 61 | 264 | 64 | 251 | 68 | 270 | 76 | 236 | 74 | 185 | 58 | 2,976 | 67 |
| Jupiter, Fla. | 235 | 56 | 202 | 50 | 210 | 54 | 124 | 35 | 182 | 56 | 171 | 53 | 2,491 | 56 |
| Kalispell, Mont. | 308 | 64 | 376 | 85 | 206 | 55 | 179 | 53 | 55 | 20 | 77 | 29 | 2,203 | 46 |
| Kansas City, Mo. | 323 | 71 | 364 | 86 | 272 | 73 | 221 | 64 | 142 | 47 | 128 | 44 | 2,787 | 61 |
| Knoxville, Tenn. | 246 | 55 | 292 | 70 | 242 | 65 | 268 | 77 | 234 | 76 | 140 | 46 | 2,544 | 57 |
| La Crosse, Wis. | 279 | 60 | 269 | 62 | 182 | 49 | 163 | 48 | 114 | 40 | 89 | 32 | 2,207 | 48 |
| Lander, Wyo. | 392 | 84 | 349 | 81 | 284 | 76 | 269 | 79 | 164 | 56 | 143 | 51 | 3,208 | 71 |
| La Salle, Ill. | 311 | 68 | 320 | 75 | 253 | 68 | 218 | 63 | 150 | 50 | 118 | 41 | 2,607 | 57 |
| Lexington, Ky. | 286 | 64 | 336 | 80 | 239 | 64 | 214 | 62 | 150 | 49 | 110 | 37 | 2,300 | 50 |
| Little Rock, Ark. | 369 | 84 | 333 | 80 | 279 | 75 | 282 | 80 | 177 | 57 | 164 | 54 | 2,896 | 64 |
| Los Angeles, Cal. | 337 | 77 | 374 | 90 | 278 | 75 | 259 | 74 | 229 | 74 | 178 | 58 | 3,176 | 71 |
| Louisville, Ky. | 264 | 59 | 322 | 76 | 259 | 69 | 236 | 68 | 210 | 69 | 130 | 44 | 2,344 | 52 |
| Lynchburg, Va. | 316 | 71 | 263 | 63 | 282 | 49 | 236 | 68 | 212 | 69 | 177 | 59 | 2,688 | 58 |
| Macon, Ga. | 230 | 53 | 282 | 68 | 199 | 54 | 281 | 80 | 240 | 76 | 164 | 53 | 2,665 | 60 |
| Madison, Wis. | 289 | 62 | 284 | 66 | 215 | 57 | 173 | 51 | 122 | 42 | 97 | 34 | 2,252 | 49 |
| Marquette, Mich. | 323 | 67 | 233 | 53 | 165 | 44 | 104 | 31 | 51 | 18 | 40 | 15 | 2,102 | 44 |
| Memphis, Tenn. | 360 | 81 | 355 | 85 | 277 | 75 | 286 | 82 | 211 | 68 | 165 | 54 | 3,016 | 67 |
| Meridian, Miss. | 241 | 55 | 271 | 66 | 301 | 81 | 298 | 85 | 257 | 81 | 181 | 58 | 2,712 | 62 |
| Milwaukee, Wis. | 380 | 82 | 340 | 79 | 290 | 77 | 205 | 60 | 149 | 51 | 114 | 40 | 2,764 | 60 |
| Mobile, Ala. | 238 | 55 | 221 | 54 | 235 | 63 | 311 | 88 | 266 | 84 | 182 | 58 | 2,717 | 62 |
| Modena, Utah. | 378 | 84 | 260 | 62 | 260 | 70 | 269 | 78 | 187 | 61 | 167 | 56 | 3,128 | 69 |
| Mount Tamalpais, Cal. | 449 | 100 | 420 | 100 | 303 | 81 | 248 | 71 | 190 | 63 | 126 | 43 | 3,384 | 73 |
| Mount Weather, Va. | 334 | 74 | 290 | 68 | 257 | 69 | 240 | 69 | 198 | 66 | 175 | 60 | 2,756 | 61 |
| New Haven, Conn. | 307 | 67 | 272 | 64 | 214 | 57 | 229 | 66 | 146 | 49 | 177 | 62 | 2,467 | 55 |
| New Orleans, La. | 194 | 45 | 216 | 53 | 292 | 79 | 276 | 78 | 238 | 74 | 176 | 56 | 2,602 | 59 |
| New York, N. Y. | 345 | 75 | 279 | 65 | 244 | 65 | 226 | 66 | 180 | 61 | 176 | 61 | 2,729 | 60 |
| Norfolk, Va. | 310 | 69 | 271 | 65 | 187 | 50 | 291 | 84 | 212 | 69 | 204 | 68 | 2,798 | 63 |
| Northfield, Vt. | 323 | 69 | 301 | 70 | 219 | 58 | 141 | 41 | 99 | 34 | 72 | 26 | 2,390 | 51 |
| North Head, Wash. | 215 | 45 | 252 | 58 | 196 | 52 | 142 | 42 | 64 | 23 | 134 | 50 | 1,880 | 40 |
| North Platte, Nebr. | 336 | 73 | 322 | 76 | 270 | 72 | 242 | 70 | 180 | 60 | 138 | 48 | 2,948 | 66 |
| Oklahoma, Okla. | 375 | 85 | 334 | 80 | 330 | 89 | 281 | 80 | 183 | 59 | 211 | 69 | 3,139 | 70 |
| Omaha, Nebr. | 297 | 65 | 362 | 85 | 222 | 59 | 202 | 59 | 139 | 46 | 106 | 37 | 2,546 | 56 |
| Parkersburg, W. Va. | 309 | 68 | 228 | 54 | 190 | 51 | 207 | 60 | 124 | 41 | 76 | 26 | 2,154 | 46 |
| Peoria, Ill. | 308 | 67 | 353 | 83 | 246 | 66 | 205 | 60 | 149 | 50 | 104 | 36 | 2,725 | 59 |
| Philadelphia, Pa. | 331 | 73 | 240 | 57 | 240 | 64 | 240 | 69 | 170 | 57 | 155 | 53 | 2,548 | 57 |
| Phoenix, Ariz. | 380 | 87 | 306 | 74 | 322 | 87 | 340 | 97 | 266 | 85 | 199 | 64 | 3,813 | 85 |
| Pittsburg, Pa. | 300 | 66 | 265 | 62 | 256 | 68 | 192 | 56 | 144 | 48 | 79 | 28 | 2,266 | 49 |
| Pocatello, Idaho. | 378 | 81 | 304 | 71 | 206 | 55 | 236 | 69 | 84 | 29 | 84 | 30 | 2,599 | 56 |
| Port Huron, Mich. | 279 | 60 | 236 | 55 | 159 | 42 | 166 | 49 | 129 | 44 | 56 | 20 | 2,043 | 44 |
| Portland, Me. | 285 | 61 | 278 | 64 | 207 | 55 | 208 | 61 | 113 | 39 | 171 | 62 | 2,558 | 57 |
| Portland, Oreg. | 273 | 58 | 341 | 78 | 240 | 64 | 146 | 43 | 47 | 17 | 97 | 36 | 2,190 | 46 |
| Providence, R. I. | 307 | 66 | 262 | 61 | 166 | 44 | 214 | 63 | 128 | 43 | 168 | 59 | 2,350 | 52 |
| Pueblo, Colo. | 364 | 81 | 301 | 71 | 292 | 78 | 254 | 73 | 177 | 58 | 216 | 73 | 3,298 | 74 |
| Raleigh, N. C. | 268 | 60 | 266 | 64 | 189 | 51 | 255 | 73 | 170 | 55 | 199 | 66 | 2,667 | 60 |
| Rapid City, S. Dak. | 350 | 75 | 322 | 74 | 247 | 66 | 257 | 75 | 150 | 52 | 135 | 49 | 2,862 | 63 |
| Richmond, Va. | 334 | 74 | 275 | 65 | 207 | 56 | 260 | 75 | 203 | 67 | 176 | 59 | 2,720 | 61 |
| Rochester, N. Y. | 341 | 73 | 313 | 73 | 232 | 62 | 164 | 48 | 102 | 35 | 61 | 22 | 2,249 | 47 |
| Roswell, N. Mex. | 274 | 63 | 299 | 72 | 325 | 87 | 296 | 84 | 235 | 75 | 187 | 60 | 3,222 | 72 |
| Sacramento, Cal. | 448 | 99 | 413 | 98 | 332 | 89 | 235 | 68 | 126 | 42 | 106 | 36 | 3,193 | 68 |
| St. Louis, Mo. | 243 | 54 | 294 | 69 | 237 | 64 | 201 | 58 | 146 | 48 | 71 | 24 | 2,263 | 50 |
| St. Paul, Minn. | 352 | 75 | 318 | 73 | 219 | 58 | 169 | 50 | 100 | 35 | 89 | 32 | 2,661 | 58 |
| Salt Lake City, Utah. | 369 | 81 | 244 | 57 | 262 | 70 | 264 | 77 | 108 | 36 | 106 | 37 | 2,674 | 58 |
| San Antonio, Tex. | 304 | 71 | 280 | 68 | 280 | 76 | 265 | 75 | 187 | 58 | 158 | 49 | 2,740 | 61 |
| San Diego, Cal. | 252 | 58 | 328 | 79 | 280 | 75 | 268 | 76 | 227 | 72 | 175 | 56 | 2,744 | 62 |
| San Francisco, Cal. | 377 | 84 | 308 | 73 | 258 | 69 | 199 | 57 | 139 | 46 | 143 | 48 | 2,869 | 62 |

SUNSHINE, 1909—Continued.

| Stations. | January. | | February. | | March. | | April. | | May. | | June. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. |
| San Jose, Cal. | 184 | 60 | 223 | 73 | 292 | 79 | 350 | 89 | 382 | 87 | 352 | 80 |
| San Juan, P. R. | 230 | 66 | 201 | 62 | 260 | 70 | 234 | 62 | 250 | 62 | 206 | 52 |
| San Luis Obispo, Cal. | 69 | 22 | 136 | 45 | 213 | 57 | 270 | 69 | 264 | 61 | 299 | 69 |
| Santa Fe, N. Mex. | 213 | 69 | 219 | 72 | 258 | 69 | 316 | 80 | 353 | 81 | 380 | 87 |
| Sault Ste. Marie, Mich. | 73 | 26 | 68 | 23 | 174 | 47 | 138 | 34 | 229 | 49 | 302 | 64 |
| Savannah, Ga. | 161 | 50 | 242 | 78 | 244 | 66 | 237 | 61 | 300 | 70 | 314 | 74 |
| Seattle, Wash. | 64 | 23 | 104 | 36 | 153 | 41 | 163 | 40 | 237 | 50 | 305 | 64 |
| Sheridan, Wyo. | 196 | 68 | 199 | 68 | 283 | 76 | 263 | 65 | 321 | 70 | 335 | 72 |
| Sioux City, Iowa. | 104 | 35 | 131 | 44 | 204 | 55 | 188 | 47 | 241 | 53 | 230 | 51 |
| Southeast Farallon, Cal. | 93 | 30 | 152 | 50 | 234 | 63 | 307 | 78 | 287 | 65 | 264 | 60 |
| Spokane, Wash. | 70 | 25 | 105 | 37 | 251 | 68 | 282 | 69 | 294 | 63 | 334 | 70 |
| Springfield, Ill. | 88 | 29 | 155 | 52 | 203 | 55 | 235 | 59 | 307 | 69 | 296 | 66 |
| Tacoma, Wash. | 20 | 7 | 50 | 17 | 134 | 36 | 208 | 51 | 247 | 53 | 276 | 58 |
| Tampa, Fla. | 176 | 54 | 197 | 63 | 306 | 82 | 310 | 80 | 352 | 84 | 309 | 74 |
| Toledo, Ohio. | 109 | 37 | 108 | 36 | 180 | 49 | 208 | 52 | 301 | 67 | 274 | 60 |
| Tonopah, Nev. | 201 | 66 | 180 | 60 | 250 | 67 | 323 | 82 | 351 | 79 | 378 | 85 |
| Topeka, Kans. | 124 | 41 | 177 | 59 | 248 | 67 | 259 | 65 | 305 | 69 | 266 | 60 |
| Vicksburg, Miss. | 120 | 38 | 170 | 55 | 214 | 57 | 249 | 64 | 273 | 64 | 286 | 67 |
| Walla Walla, Wash. | 80 | 28 | 87 | 30 | 265 | 72 | 279 | 68 | 310 | 67 | 324 | 69 |
| Washington, D. C. | 121 | 40 | 151 | 50 | 188 | 51 | 223 | 56 | 279 | 63 | 244 | 55 |
| Williston, N. Dak. | 142 | 52 | 159 | 56 | 208 | 56 | 254 | 62 | 273 | 58 | 324 | 68 |
| Wilmington, N. C. | 181 | 57 | 211 | 69 | 238 | 63 | 273 | 70 | 305 | 71 | 274 | 63 |
| Winnemucca, Nev. | 110 | 37 | 142 | 48 | 223 | 60 | 332 | 83 | 343 | 76 | 388 | 86 |
| Wytheville, Va. | 134 | 43 | 163 | 54 | 210 | 57 | 260 | 66 | 313 | 71 | 283 | 64 |
| Yankton, S. Dak. | 117 | 40 | 147 | 50 | 216 | 58 | 190 | 47 | 241 | 53 | 279 | 61 |
| Yellowstone Park, Wyo. | 86 | 30 | 145 | 50 | 264 | 71 | 260 | 64 | 300 | 65 | 329 | 71 |
| Yuma, Ariz. | 252 | 79 | 251 | 81 | 328 | 88 | 384 | 98 | 415 | 96 | 425 | 99 |

SUNSHINE, 1909—Continued.

| Stations. | July. | | August. | | September. | | October. | | November. | | December. | | Annual. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. | Hours. | Percentage of possible. |
| San Jose, Cal | 408 | 91 | 340 | 81 | 287 | 77 | 231 | 66 | 227 | 74 | 151 | 51 | 3,428 | 76 |
| San Juan, P. R | 261 | 64 | 176 | 45 | 205 | 56 | 227 | 63 | 154 | 45 | 198 | 58 | 2,603 | 59 |
| San Luis Obispo, Cal | 349 | 79 | 327 | 79 | 244 | 66 | 218 | 62 | 197 | 64 | 132 | 43 | 2,721 | 60 |
| Santa Fe, New Mex | 318 | 72 | 261 | 62 | 313 | 84 | 287 | 82 | 218 | 71 | 236 | 78 | 3,371 | 76 |
| Sault Ste. Marie, Mich | 318 | 67 | 264 | 60 | 175 | 46 | 97 | 29 | 58 | 20 | 51 | 19 | 1,947 | 40 |
| Savannah, Ga | 308 | 71 | 287 | 70 | 236 | 64 | 281 | 80 | 226 | 71 | 192 | 61 | 3,028 | 68 |
| Seattle, Wash | 232 | 48 | 274 | 62 | 206 | 55 | 106 | 32 | 56 | 20 | 66 | 25 | 1,967 | 41 |
| Sheridan, Wyo | 367 | 78 | 343 | 79 | 259 | 69 | 234 | 69 | 132 | 46 | 181 | 66 | 3,114 | 69 |
| Sioux City, Iowa | 255 | 55 | 349 | 81 | 207 | 55 | 192 | 56 | 139 | 47 | 98 | 35 | 2,339 | 51 |
| Southeast Farallon, Cal | 288 | 64 | 240 | 57 | 205 | 55 | 169 | 49 | 178 | 59 | 140 | 47 | 2,557 | 56 |
| Spokane, Wash | 376 | 78 | 394 | 89 | 271 | 72 | 178 | 53 | 65 | 23 | 51 | 19 | 2,672 | 56 |
| Springfield, Ill | 314 | 69 | 382 | 90 | 262 | 70 | 231 | 67 | 173 | 58 | 136 | 47 | 2,782 | 61 |
| Tacoma, Wash | 262 | 55 | 306 | 70 | 231 | 61 | 108 | 32 | 38 | 14 | 62 | 23 | 1,943 | 40 |
| Tampa, Fla | 317 | 75 | 345 | 85 | 338 | 92 | 283 | 79 | 277 | 86 | 206 | 64 | 3,417 | 76 |
| Toledo, Ohio | 346 | 75 | 346 | 81 | 247 | 66 | 221 | 65 | 125 | 42 | 87 | 30 | 2,551 | 55 |
| Tonopah, Nev | 421 | 94 | 324 | 77 | 291 | 78 | 265 | 76 | 194 | 64 | 160 | 54 | 3,337 | 74 |
| Topeka, Kans | 308 | 68 | 342 | 81 | 260 | 70 | 221 | 64 | 147 | 49 | 156 | 53 | 2,813 | 62 |
| Vicksburg, Miss | 286 | 66 | 282 | 68 | 290 | 78 | 299 | 85 | 238 | 75 | 166 | 53 | 2,872 | 64 |
| Walla Walla, Wash | 382 | 80 | 401 | 92 | 256 | 68 | 210 | 62 | 68 | 24 | 48 | 18 | 2,709 | 56 |
| Washington, D. C | 298 | 66 | 264 | 62 | 178 | 48 | 214 | 62 | 201 | 67 | 201 | 68 | 2,561 | 57 |
| Williston, N. Dak | 317 | 66 | 375 | 85 | 286 | 76 | 183 | 55 | 93 | 33 | 55 | 21 | 2,669 | 57 |
| Wilmington, N. C | 316 | 72 | 266 | 64 | 218 | 59 | 290 | 83 | 242 | 78 | 217 | 71 | 3,026 | 68 |
| Winnemucca, Nev | 433 | 94 | 403 | 94 | 329 | 88 | 274 | 80 | 161 | 54 | 109 | 38 | 3,247 | 70 |
| Wytheville, Va | 303 | 68 | 303 | 72 | 228 | 61 | 261 | 62 | 194 | 64 | 156 | 52 | 2,808 | 61 |
| Yankton, S. Dak | 281 | 60 | 317 | 74 | 188 | 50 | 214 | 63 | 146 | 50 | 99 | 35 | 2,434 | 53 |
| Yellowstone Park, Wyo | 372 | 79 | 368 | 85 | 214 | 57 | 211 | 62 | 125 | 44 | 139 | 51 | 2,812 | 61 |
| Yuma, Ariz | 414 | 95 | 350 | 85 | 354 | 96 | 345 | 98 | 280 | 89 | 184 | 59 | 3,982 | 89 |

# EXCESSIVE RAINFALL, 1909.

The table following contains the record of excessive rainfall for the calendar year 1909. Similar records for the years 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, and 1908 were published in the Annual Reports of the Chief of the Weather Bureau, 1897–98, pages 275–280; 1899–1900, pages 300–309; 1900–1901, pages 281–287; 1901–2, pages 268–275; 1902–3; pages 269–278; 1903–4, pages 370–379; 1904–5, pages 376–384; 1905–6, pages 394–405; 1906–7, pages 393–402, 1907–8, pages 387–397; and 1908–9, pages 59–70, respectively. Previous to 1896 the published data consist of a record of maximum amounts of rainfall in 5 and 10 minute periods and also in 1 and 24 hours. The Annual Report for 1895–96 contains a summary of the records which up to that time had been made at the principal stations supplied with automatic gages.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1909, IN WHICH THE RATE OF FALL EQUALED 0.25 INCH IN ANY FIVE MINUTES OR 0.80 INCH IN ONE HOUR, AT STATIONS OF THE WEATHER BUREAU FURNISHED WITH SELF-REGISTERING GAGES.

| Station and date. | Total duration. | | Total amount of precipitation (inches). | Excessive rate. | | Amount before excessive rate began (inches). | Accumulated amounts of precipitation (in inches) during periods of time indicated. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | From— | To— | | Began— | Ended— | | 5 min. | 10 min. | 15 min. | 20 min. | 25 min. | 30 min. | 35 min. | 40 min. | 45 min. | 50 min. | 60 min. | 80 min. | 100 min. | 120 min. |
| NEW ENGLAND STATES. | | | | | | | | | | | | | | | | | | | | |
| Eastport, Me.: | | | | | | | | | | | | | | | | | | | | |
| July 16 | 8.40 p. m. | 11.10 p. m. | 0.81 | 8.42 p. m. | 9.11 p. m. | 0.01 | 0.05 | 0.17 | 0.20 | 0.26 | 0.50 | 0.67 | | | | | | | | |
| July 30 | 12.30 a. m. | 2.00 a. m. | .53 | 12.33 a. m. | 12.48 a. m. | .02 | .14 | .30 | .40 | | | | | | | | | | | |
| Sept. 28–29 | 11.15 p. m. | 5.00 a. m. | 2.00 | 3.41 a. m. | 4.26 a. m. | .61 | .09 | .32 | .64 | .82 | .96 | 1.08 | 1.16 | 1.25 | 1.34 | | | | | |
| Portland, Me.: | | | | | | | | | | | | | | | | | | | | |
| June 17–18 | 11.28 p. m. | 6.04 a. m. | 1.27 | 2.14 a. m. | 2.41 a. m. | .31 | .10 | .26 | .36 | .43 | .48 | .51 | | | | | | | | |
| Burlington, Vt.: | | | | | | | | | | | | | | | | | | | | |
| June 17–18 | 4.20 p. m. | D. N., a. m. | 1.96 | 4.29 p. m. | 5.02 p. m. | .01 | .25 | .34 | .47 | .64 | .73 | .86 | .91 | | | | | | | |
| Sept. 23 | 9.21 p. m. | 10.30 p. m. | 1.10 | 9.32 p. m. | 10.16 p. m. | .02 | .06 | .13 | .28 | .51 | .65 | .73 | .83 | .98 | 1.05 | | | | | |
| Nantucket, Mass.: | | | | | | | | | | | | | | | | | | | | |
| Nov. 2–3 | 6.50 p. m. | 7.20 a. m. | 1.57 | 1.07 a. m. | 1.36 a. m. | .29 | .12 | .27 | .40 | .53 | .56 | .63 | | | | | | | | |
| Nov. 23–24 | 5.40 p. m. | 5.40 p. m. | 2.70 | 4.10 p. m. | 4.25 p. m. | 1.81 | .10 | .33 | .42 | | | | | | | | | | | |
| Block Island, R. I.: | | | | | | | | | | | | | | | | | | | | |
| Sept. 23–24 | 11.35 p. m. | 6.45 a. m. | .94 | 3.56 a. m. | 4.18 a. m. | .17 | .22 | .42 | .51 | .63 | .67 | | | | | | | | | |
| Northfield, Vt.: | | | | | | | | | | | | | | | | | | | | |
| July 30 | 10.15 a. m. | 10.35 a. m. | .45 | 10.18 a. m. | 10.26 a. m. | T. | .35 | .44 | | | | | | | | | | | | |
| Hartford, Conn.: | | | | | | | | | | | | | | | | | | | | |
| July 30 | 2.02 p. m. | 2.35 p. m. | .36 | 2.11 p. m. | 2.17 p. m. | .02 | .29 | .33 | | | | | | | | | | | | |
| New Haven, Conn.: | | | | | | | | | | | | | | | | | | | | |
| June 28 | 1.27 p. m. | 2.30 p. m. | 1.57 | 1.34 p. m. | 2.19 p. m. | .01 | [1].25 | .48 | .57 | .68 | .92 | 1.31 | 1.36 | 1.47 | 1.56 | | | | | |
| Oct. 11–12 | 11.35 p. m. | 7.05 a. m. | 1.04 | 4.12 a. m. | 4.22 a. m. | .35 | .18 | .32 | | | | | | | | | | | | |
| MIDDLE ATLANTIC STATES. | | | | | | | | | | | | | | | | | | | | |
| Binghamton, N. Y.: | | | | | | | | | | | | | | | | | | | | |
| Aug. 20 | 2.45 p. m. | 3.30 p. m. | .47 | 3.04 p. m. | 3.23 p. m. | .01 | .13 | .27 | .38 | .44 | | | | | | | | | | |
| Harrisburg, Pa.: | | | | | | | | | | | | | | | | | | | | |
| May 27 | 7.16 p. m. | 7.40 p. m. | .35 | 7.25 p. m. | 7.35 p. m. | .03 | .15 | .30 | | | | | | | | | | | | |
| June 25 | 1.20 p. m. | 2.05 p. m. | .59 | 1.30 p. m. | 1.55 p. m. | .01 | .08 | .23 | .30 | .45 | .57 | | | | | | | | | |
| June 27 | 8.50 p. m. | 10.00 p. m. | .41 | 8.53 p. m. | 8.59 p. m. | .01 | .36 | .37 | | | | | | | | | | | | |
| Oct. 11 | 5.30 p. m. | 8.40 p. m. | 1.11 | 6.26 p. m. | 7.16 p. m. | .04 | .06 | .13 | .20 | .25 | .27 | .32 | .42 | .56 | .78 | .91 | | | | |
| Philadelphia, Pa.: | | | | | | | | | | | | | | | | | | | | |
| July 16 | 1.57 p. m. | 2.35 p. m. | .63 | 2.00 p. m. | 2.16 p. m. | .01 | .37 | .52 | .59 | .61 | | | | | | | | | | |
| Scranton, Pa.: | | | | | | | | | | | | | | | | | | | | |
| May 7 | 5.20 p. m. | 7.25 p. m. | .73 | 6.03 p. m. | 6.23 p. m. | .09 | .11 | .25 | .39 | .55 | | | | | | | | | | |
| June 25 | 11.00 a. m. | 11.45 a. m. | .91 | 11.20 a. m. | 11.35 a. m. | .04 | .34 | .58 | .86 | | | | | | | | | | | |
| June 28 | 1.45 p. m. | 2.15 p. m. | .53 | 1.58 p. m. | 2.07 p. m. | .04 | .32 | .48 | | | | | | | | | | | | |
| July 15 | 2.24 p. m. | 3.17 p. m. | 1.01 | 2.38 p. m. | 3.13 p. m. | .07 | .13 | .23 | .32 | .39 | .62 | .76 | .93 | | | | | | | |
| Oct. 11–12 | 6.10 p. m. | D. N., a. m. | 1.04 | 10.22 p. m. | 10.34 p. m. | .39 | .09 | .30 | .35 | | | | | | | | | | | |

[1] Estimated.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1909, ETC.—Continued.

| Station and date. | Total duration. | | Total amount of precipitation (inches). | Excessive rate. | | Amount before excessive rate began (inches). | Accumulated amounts of precipitation (in inches) during periods of time indicated. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | From— | To— | | Began— | Ended— | | 5 min. | 10 min. | 15 min. | 20 min. | 25 min. | 30 min. | 35 min. | 40 min. | 45 min. | 50 min. | 60 min. | 80 min. | 100 min. | 120 min. |
| **MIDDLE ATLANTIC STATES—cont'd.** | | | | | | | | | | | | | | | | | | | | |
| Atlantic City, N. J.: | | | | | | | | | | | | | | | | | | | | |
| Dec. 13 | D.N., a.m. | D.N., p.m. | 2.17 | 8.55 p. m. | 9.21 p. m. | 1.07 | 0.07 | 0.33 | 0.50 | 0.66 | 0.90 | 0.95 | | | | | | | | |
| Baltimore, Md.: | | | | | | | | | | | | | | | | | | | | |
| May 27 | 7.55 p. m. | 9.45 p. m. | 1.06 | 7.57 p. m. | 8.14 p. m. | .01 | .36 | .63 | .80 | .86 | | | | | | | | | | |
| June 5 | 1.50 p. m. | 9.00 p. m. | .58 | 5.21 p. m. | 5.30 p. m. | .11 | .32 | .40 | | | | | | | | | | | | |
| June 17 | 5.25 p. m. | 7.05 p. m. | .53 | 5.51 p. m. | 5.58 p. m. | .01 | .26 | .34 | | | | | | | | | | | | |
| July 15 | 2.35 p. m. | 3.30 p. m. | .91 | 3.09 p. m. | 3.24 p. m. | .27 | .10 | .42 | .62 | | | | | | | | | | | |
| Sept. 9–10 | 11.00 p. m. | 12.20 p. m. | 2.35 | 3.05 a. m. | 3.30 a. m. | .81 | .05 | .11 | .25 | .42 | .54 | | | | | | | | | |
| Washington, D. C.: | | | | | | | | | | | | | | | | | | | | |
| June 17 | 5.30 p. m. | 6.27 p. m. | .94 | 5.49 p. m. | 6.24 p. m. | .04 | .12 | .31 | .45 | .54 | .69 | .78 | 0.90 | | | | | | | |
| July 16 | 6.25 p. m. | 7.15 p. m. | .42 | 6.38 p. m. | 6.47 p. m. | .01 | .24 | .41 | | | | | | | | | | | | |
| Aug. 16–17 | 9.10 p. m. | 12.25 a. m. | .66 | 9.22 p. m. | 9.30 p. m. | .01 | .24 | .39 | | | | | | | | | | | | |
| Cape Henry, Va.: | | | | | | | | | | | | | | | | | | | | |
| May 27 | 1.30 a. m. | 6.00 a. m. | .69 | 1.50 a. m. | 2.03 a. m. | .02 | .33 | .56 | .62 | | | | | | | | | | | |
| July 30 | 5.12 p. m. | 6.05 p. m. | 1.17 | 5.19 p. m. | 5.43 p. m. | .01 | .16 | .45 | .84 | 1.08 | 1.12 | | | | | | | | | |
| Aug. 3 | 2.00 p. m. | 3.45 p. m. | .85 | 2.28 p. m. | 2.37 p. m. | .01 | .45 | .64 | | | | | | | | | | | | |
| Lynchburg, Va.: | | | | | | | | | | | | | | | | | | | | |
| June 10 | 6.20 p. m. | 7.50 p. m. | .45 | 6.48 p. m. | 7.00 p. m. | .01 | .25 | .34 | .37 | | | | | | | | | | | |
| June 11 | 5.05 p. m. | 5.45 p. m. | .53 | 5.08 p. m. | 5.30 p. m. | .01 | .19 | .31 | .40 | .49 | .52 | | | | | | | | | |
| Aug. 6 | 12.25 a. m. | 1.15 a. m. | .99 | 12.31 a. m. | 12.55 a. m. | .01 | .21 | .52 | .74 | .91 | .97 | | | | | | | | | |
| Mount Weather, Va: | | | | | | | | | | | | | | | | | | | | |
| June 5 | D.N., a.m. | 6.44 a. m. | .35 | 6.22 a. m. | 6.34 a. m. | .01 | .09 | .27 | .34 | | | | | | | | | | | |
| June 17 | 2.55 p. m. | 7.30 p. m. | 1.01 | 4.00 p. m. | 4.31 p. m. | .14 | .09 | .11 | .14 | .44 | .60 | .68 | .70 | | | | | | | |
| June 22 | 2.51 p. m. | 3.35 p. m. | .43 | 3.17 p. m. | 3.28 p. m. | .06 | .13 | .35 | .37 | | | | | | | | | | | |
| June 26–27 | 8.46 p. m. | D.N., a.m. | 1.06 | 10.16 p. m. | 10.36 p. m. | .04 | .34 | .60 | .79 | .88 | | | | | | | | | | |
| July 30 | 11.45 a. m. | 12.20 p. m. | .62 | 11.51 a. m. | 12.14 p. m. | .02 | .08 | .19 | .39 | .55 | .60 | | | | | | | | | |
| Oct. 11 | 10.05 a. m. | 7.10 p. m. | 1.31 | 4.57 p. m. | 5.12 p. m. | .63 | .15 | .27 | .46 | | | | | | | | | | | |
| Norfolk, Va.: | | | | | | | | | | | | | | | | | | | | |
| June 10–11 | 4.45 p. m. | 1.45 a. m. | 1.35 | 7.39 p. m. | 7.59 p. m. | .56 | .13 | .27 | .40 | .50 | | | | | | | | | | |
| July 14 | 4.20 p. m. | 6.30 p. m. | 1.42 | 5.27 p. m. | 6.11 p. m. | .44 | .06 | .14 | .33 | .36 | .57 | .64 | .73 | 0.79 | 0.94 | | | | | |
| July 31–Aug. 1 | 10.30 p. m. | D.N., a.m. | 1.24 | 2.34 a. m. | 3.11 a. m. | .38 | .17 | .21 | .21 | .22 | .29 | .60 | .72 | .77 | | | | | | |
| Aug. 1 | 12.35 p. m. | 2.00 p. m. | .97 | 12.38 p. m. | 12.52 p. m. | .01 | .46 | .71 | .92 | | | | | | | | | | | |
| Aug. 3 | 11.40 a. m. | 2.30 p. m. | 1.22 | 1.28 p. m. | 2.15 p. m. | .33 | .10 | .23 | .34 | .47 | .54 | .57 | .64 | .75 | .85 | 0.89 | | | | |
| Dec. 13 | 12.15 p. m. | 7.30 p. m. | 1.45 | 6.48 p. m. | 7.24 p. m. | .44 | .20 | .37 | .60 | .73 | .81 | .89 | .98 | 1.01 | | | | | | |
| Richmond, Va.: | | | | | | | | | | | | | | | | | | | | |
| June 17 | 6.24 p. m. | 7.06 p. m. | .38 | 6.39 p. m. | 6.46 p. m. | .04 | .27 | .33 | | | | | | | | | | | | |
| Aug. 1 | 6.12 a. m. | 7.50 a. m. | .77 | 6.30 a. m. | 6.50 a. m. | .10 | .10 | .26 | .46 | .58 | | | | | | | | | | |
| Aug. 16 | 12.15 a. m. | D.N., a.m. | .64 | 1.29 a. m. | 1.52 a. m. | .11 | .06 | .20 | .33 | .46 | .50 | | | | | | | | | |
| Sept. 9–10 | 4.25 p. m. | 2.30 a. m. | 1.29 | 1.00 a. m. | 1.32 a. m. | .04 | .09 | .20 | .31 | .39 | .49 | .58 | .65 | | | | | | | |
| Sept. 10 | 8.35 a. m. | 10.30 a. m. | .66 | 8.35 a. m. | 9.05 a. m. | .00 | .18 | .40 | .41 | .44 | .51 | .55 | | | | | | | | |
| Dec. 12–13 | 11.05 p. m. | 6.55 p. m. | 2.52 | 1.29 p. m.<br>2.17 p. m. | 1.42 p. m.<br>2.42 p. m. | .81<br>1.55 | .23<br>.05 | .40<br>.16 | .48<br>.32 | .41 | .47 | | | | | | | | | |
| Wytheville, Va.: | | | | | | | | | | | | | | | | | | | | |
| June 12 | 4.50 p. m. | 8.40 p. m. | 2.16 | 5.11 p. m. | 6.28 p. m. | .18 | .08 | .12 | .18 | .29 | .35 | .60 | .93 | 1.27 | 1.55 | 1.58 | 1.68 | 1.91 | | |
| June 16 | 12.35 p. m. | 1.05 p. m. | .50 | 12.41 p. m. | 12.56 p. m. | .03 | .13 | .30 | .45 | | | | | | | | | | | |
| June 26 | 2.00 p. m. | 2.40 p. m. | .53 | 2.07 p. m. | 2.27 p. m. | .01 | .13 | .28 | .45 | .50 | | | | | | | | | | |
| Aug. 16 | 9.20 p. m. | 10.35 p. m. | .93 | 9.36 p. m. | 9.56 p. m. | .10 | .30 | .49 | .66 | .75 | | | | | | | | | | |
| **SOUTH ATLANTIC STATES.** | | | | | | | | | | | | | | | | | | | | |
| Asheville, N. C.: | | | | | | | | | | | | | | | | | | | | |
| Apr. 30 | 9.53 a. m. | 1.08 p. m. | .97 | 10.00 a. m. | 10.18 a. m. | .01 | .22 | .58 | .64 | .69 | | | | | | | | | | |
| May 9–10 | 9.25 p. m. | 3.00 a. m. | 3.28 | 11.14 p. m. | 1.14 a. m. | .23 | .18 | .38 | .43 | .52 | .56 | .58 | .73 | 1.01 | 1.10 | 1.13 | 1.16 | 1.65 | 2.39 | 2.70 |
| June 23 | 12.28 p. m. | 1.00 p. m. | .68 | 12.35 p. m. | 12.50 p. m. | .01 | .21 | .46 | .65 | | | | | | | | | | | |
| July 3 | 4.30 p. m. | 5.15 p. m. | .74 | 4.36 p. m. | 4.58 p. m. | .01 | .26 | .57 | .64 | .68 | .73 | | | | | | | | | |
| Aug. 15 | 9.30 p. m. | 11.30 p. m. | 1.10 | 9.50 p. m. | 10.05 p. m. | .02 | .11 | .27 | .62 | | | | | | | | | | | |
| Oct. 10–11 | 9.50 p. m. | D.N., a.m. | 1.91 | 1.51 a. m. | 2.41 a. m. | .24 | .07 | .17 | .50 | .73 | .94 | 1.05 | 1.11 | 1.21 | 1.40 | 1.50 | | | | |
| Charlotte, N. C. | | | | | | | | | | | | | | | | | | | | |
| May 20 | 12.40 p. m. | 9.15 p. m. | 3.06 | 1.25 p. m. | 3.05 p. m. | .04 | .28 | .40 | .51 | .56 | .62 | .71 | .84 | .99 | 1.10 | 1.14 | 1.35 | 1.80 | 2.07 | |
| June 3–4 | D.N., a. m. | D.N., a. m. | 3.86 | 3.46 p. m. | 4.29 p. m. | 1.47 | .05 | .11 | .21 | .34 | .39 | .49 | .67 | .98 | 1.06 | | | | | |
| June 12–13 | 7.10 p. m. | D.N., a. m. | 1.43 | 7.14 p. m. | 7.39 p. m. | .02 | .17 | .39 | .58 | .66 | .77 | | | | | | | | | |
| Aug. 2–3 | D.N., a. m. | 7.00 a. m. | 2.22 | 4.26 a. m. | 5.04 a. m. | .34 | .09 | .19 | .28 | .45 | .57 | .64 | .70 | .75 | | | | | | |
| Aug. 15–16 | 9.55 p. m. | D.N., a. m. | 1.10 | 11.25 p. m. | 11.52 p. m. | .04 | .09 | .22 | .27 | .39 | .62 | .68 | | | | | | | | |
| Sept. 17 | 4.15 p. m. | 6.45 p. m. | .77 | 4.17 p. m. | 4.56 p. m. | .01 | .07 | .24 | .35 | .43 | .48 | .53 | .59 | .64 | | | | | | |
| Hatteras, N. C.: | | | | | | | | | | | | | | | | | | | | |
| Jan. 5 | 8.45 a. m. | 7.35 p. m. | 1.97 | 12.50 p. m | 1.45 p. m. | .17 | .16 | .19 | .32 | .41 | .52 | .63 | .67 | .69 | .78 | .91 | .99 | | | |
| Apr. 27–28 | 6.45 p. m. | 2.20 a. m. | 2.19 | 11.25 p. m. | 12.40 a. m. | .70 | .11 | .22 | .29 | .37 | .47 | .53 | .63 | .73 | .82 | .89 | .99 | 1.27 | | |
| June 5 | 9.40 p. m. | 10.55 p. m. | 1.88 | 9.41 p. m. | 10.33 p. m. | .01 | .21 | .40 | .62 | 1.00 | 1.16 | 1.20 | 1.25 | 1.39 | 1.58 | 1.83 | 1.86 | | | |
| July 28 | 1.15 a. m. | 5.15 a. m. | .78 | 1.21 a. m. | 1.34 a. m. | .02 | .25 | .48 | .51 | | | | | | | | | | | |
| Aug. 10–11 | 9.45 p. m. | 1.10 a. m. | .98 | 10.13 p. m. | 10.25 p. m. | .24 | .21 | .45 | .53 | | | | | | | | | | | |
| Aug. 29 | 9.25 p. m. | 11.50 p. m. | .80 | 9.31 p. m. | 9.47 p. m. | .01 | .14 | .31 | .47 | .50 | | | | | | | | | | |
| Dec. 13 | 2.45 p. m. | 7.45 p. m. | 1.46 | 6.59 p. m. | 7.39 p. m. | .57 | .17 | .40 | .46 | .49 | .55 | .61 | .72 | .89 | | | | | | |
| Raleigh, N. C.: | | | | | | | | | | | | | | | | | | | | |
| Mar. 3 | 11.41 a. m. | 1.25 p. m. | .73 | 12.22 p. m. | 1.02 p. m. | .03 | .10 | .22 | .30 | .36 | .43 | .51 | .57 | .63 | | | | | | |
| Apr. 30 | 1.50 p. m. | 5.20 p. m. | 1.05 | 1.53 p. m. | 2.13 p. m. | .01 | .07 | .23 | .55 | .67 | | | | | | | | | | |
| Apr. 30–May 1 | 8.30 p. m. | 6.20 a. m. | 2.25 | 8.35 p. m. | 9.02 p. m. | .01 | .18 | .56 | .80 | .94 | .99 | 1.04 | | | | | | | | |
| June 17 | 9.45 p. m. | 11.45 p. m. | 1.81 | 9.52 p. m. | 10.35 p. m. | .01 | .07 | .17 | .34 | .52 | .66 | 1.08 | 1.32 | 1.66 | 1.72 | | | | | |
| July 6 | 9.05 p. m. | 11.20 p. m. | 1.51 | 9.25 p. m. | 10.25 p. m. | .08 | .09 | .16 | .23 | .42 | .57 | .74 | .89 | 1.11 | 1.17 | 1.25 | 1.40 | | | |
| July 27 | 6.50 a. m. | 9.40 a. m. | 1.51 | 8.38 a. m. | 9.24 a. m. | .06 | .14 | .42 | .55 | .62 | .67 | .89 | 1.09 | 1.25 | 1.42 | 1.44 | | | | |
| Sept. 10 | 6.00 p. m. | 7.05 p. m. | .82 | 6.36 p. m. | 7.04 p. m. | .06 | .22 | .29 | .35 | .50 | .68 | .76 | | | | | | | | |
| Sept. 18 | 3.20 p. m. | 4.10 p. m. | .71 | 3.22 p. m. | 3.48 p. m. | .01 | .11 | .24 | .39 | .55 | .63 | .67 | | | | | | | | |

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1909, ETC.—Continued.

| Station and date. | Total duration. | | Total amount of precipitation (inches). | Excessive rate. | | Amount before excessive rate began (inches). | Accumulated amounts of precipitation (in inches) during periods of time indicated. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | From— | To— | | Began— | Ended— | | 5 min. | 10 min. | 15 min. | 20 min. | 25 min. | 30 min. | 35 min. | 40 min. | 45 min. | 50 min. | 60 min. | 80 min. | 100 min. | 120 min. |
| **SOUTH ATLANTIC STATES—continued.** | | | | | | | | | | | | | | | | | | | | |
| Wilmington, N. C.: | | | | | | | | | | | | | | | | | | | | |
| Apr. 13 | 7.28 p. m. | 9.20 p. m. | 0.65 | 7.44 p. m. | 7.56 p. m. | 0.05 | 0.16 | 0.37 | 0.41 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| May 21 | D.N.,a. m. | 7.10 a. m. | .91 | 6.12 a. m. | 6.46 a. m. | .31 | .08 | .20 | .30 | 0.40 | 0.46 | 0.53 | 0.58 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| June 14 | 10.40 p. m. | 11.30 p. m. | .68 | 10.51 p. m. | 11.15 p. m. | .01 | .14 | .34 | .36 | .39 | .62 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Aug. 16 | 1.35 p. m. | 7.25 p. m. | 2.25 | 3.20 p. m. | 3.47 p. m. | .35 | .50 | .86 | 1.06 | 1.26 | 1.47 | 1.55 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Dec. 13 | 9.15 a. m. | 4.55 p. m. | 1.50 | 1.40 p. m | 2.34 p. m. | .39 | .06 | .15 | .28 | .31 | .42 | .50 | .53 | 0.60 | 0.63 | 0.71 | 0.82 | ..... | ..... | ..... |
| Charleston, S. C.: | | | | | | | | | | | | | | | | | | | | |
| Mar. 28 | 1.23 p. m. | 3.10 p. m. | .78 | 1.46 p. m. | 2.06 p. m. | .08 | .11 | .35 | .48 | .53 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| May 28 | 12.20 a. m. | 3.15 a. m. | .59 | 1.11 a. m. | 1.27 a. m. | .01 | .19 | .42 | .50 | .53 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| July 7 | 1.25 p. m. | 4.10 p. m. | 1.12 | 1.48 p. m. | 2.13 p. m. | .02 | .15 | .26 | .62 | .98 | 1.08 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| July 17 | 5.20 p. m. | 7.05 p. m. | 1.20 | 5.22 p. m. | 6.12 p. m. | .01 | .10 | .20 | .26 | .29 | .32 | .40 | .59 | .79 | .88 | .94 | ..... | ..... | ..... | ..... |
| Aug. 16 | 3.52 p. m. | 6.57 p. m. | 1.25 | 3.57 p. m. | 4.22 p. m. | .01 | .11 | .37 | .59 | .75 | .92 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Aug. 19 | 12.11 p. m. | 2.15 p. m. | 2.22 | 12.31 p. m. | 1.30 p. m. | .01 | .16 | .40 | .73 | 1.08 | 1.39 | 1.56 | 1.80 | 1.87 | 1.90 | 1.94 | 2.11 | ..... | ..... | ..... |
| Sept. 11 | 12.02 a. m. | D.N.,a. m. | 1.20 | 12.38 a. m. | 1.08 a. m. | .11 | .10 | .15 | .17 | .25 | .50 | .68 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Sept. 12 | 7.50 a. m. | 10.45 a. m. | 1.70 | 7.56 a. m. | 8.56 a. m. | .01 | .12 | .22 | .40 | .63 | .67 | .87 | 1.01 | 1.06 | 1.24 | 1.44 | 1.66 | ..... | ..... | ..... |
| Oct. 6 | D.N.,a. m. | 9.15 a. m. | 1.22 | 2.21 a. m. | 2.43 a. m. | .13 | .07 | .22 | .40 | .53 | .59 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Nov. 6 | 6.40 p. m. | 7.28 p. m. | 1.31 | 6.44 p. m. | 7.07 p. m. | .01 | .14 | .59 | .96 | 1.21 | 1.26 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Columbia, S. C.: | | | | | | | | | | | | | | | | | | | | |
| May 26–27 | 11.45 p. m. | D.N.,a. m. | 1.06 | 12.13 a. m. | 12.58 a. m. | .03 | .12 | .31 | .53 | .60 | .64 | .65 | .81 | .92 | 1.00 | ..... | ..... | ..... | ..... | ..... |
| June 16 | 5.00 p. m. | 7.30 p. m. | .91 | 6.21 p. m. | 6.40 p. m. | .08 | .08 | .51 | .71 | .81 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| June 26–27 | 8.35 p. m. | D.N.,a. m. | 2.15 | 9.35 p. m. | 10.40 p. m. | .07 | .07 | .17 | .26 | .47 | .61 | .77 | .95 | 1.13 | 1.35 | 1.54 | 1.71 | 1.88 | ..... | ..... |
| July 6 | 4.35 p. m. | 5.42 p. m. | .61 | 5.12 p. m. | 5.26 p. m. | .05 | .12 | .36 | .54 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Aug. 6 | 5.20 p. m. | 8.50 p. m. | 1.27 | 5.29 p. m. | 5.59 p. m. | .01 | .32 | .57 | .62 | .75 | .93 | 1.02 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Aug. 29 | 12.30 a. m. | D.N.,a. m. | 1.33 | 1.00 a. m. | 1.53 a. m. | .06 | .06 | .15 | .24 | .30 | .40 | .49 | .55 | .65 | .77 | .84 | .93 | ..... | ..... | ..... |
| Oct. 5–6 | 9.20 p. m. | D.N.,a. m. | .97 | 9.22 p. m. | 9.42 p. m. | .01 | .15 | .37 | .50 | .64 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Augusta, Ga.: | | | | | | | | | | | | | | | | | | | | |
| Feb. 22–23 | 7.50 p. m. | D.N.,a. m. | 2.08 | 11.09 p. m. | 11.58 p. m. | .81 | .20 | .28 | .31 | .35 | .42 | .56 | .80 | .97 | 1.06 | 1.15 | ..... | ..... | ..... | ..... |
| May 20 | 8.30 a. m. | 10.30 a. m. | .54 | 8.35 a. m. | 8.48 a. m. | .02 | .11 | .31 | .45 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| June 17 | 4.40 p. m. | 6.15 p. m. | .60 | 5.37 p. m. | 5.52 p. m. | .04 | .15 | .40 | .51 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| June 22 | 12.57 p. m. | 5.25 p. m. | 1.37 | 1.20 p. m. | 2.10 p. m. | .15 | .09 | .18 | .48 | .57 | .60 | .69 | .80 | .92 | .98 | 1.05 | ..... | ..... | ..... | ..... |
| Aug. 2 | 12.42 p. m. | 2.45 p. m. | 1.21 | 12.43 p. m. | 1.16 p. m. | .01 | .10 | .23 | .68 | .93 | .99 | 1.06 | 1.11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Aug. 16 | 2.05 p. m. | 3.35 p. m. | .53 | 2.08 p. m. | 2.24 p. m. | .01 | .19 | .36 | .47 | .50 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Aug. 27 | 4.48 p. m. | 5.25 p. m. | .56 | 4.52 p. m. | 5.03 p. m. | .02 | .26 | .50 | .53 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Savannah, Ga.: | | | | | | | | | | | | | | | | | | | | |
| May 1 | 7.56 a. m. | 1.35 p. m. | 1.35 | 10.31 a. m. | 11.06 a. m. | .15 | .05 | .14 | .31 | .57 | .76 | .97 | 1.03 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| May 30 | 1.30 p. m. | 5.30 p. m. | 1.58 | 1.36 p. m. | 2.16 p. m. | .02 | .12 | .25 | .59 | .91 | 1.00 | 1.11 | 1.32 | 1.40 | ..... | ..... | ..... | ..... | ..... | ..... |
| July 8 | D.N.,a. m. | 2.42 p. m. | 3.85 | 6.18 a. m. | 8.04 a. m. | .33 | .10 | .34 | .56 | .80 | 1.05 | 1.39 | 1.77 | 1.95 | 2.13 | 2.26 | 2.39 | 2.55 | 2.88 | 3.04 |
| Aug. 6 | 11.14 a. m. | 12.03 p. m. | .89 | 11.20 a. m. | 11.39 a. m. | .01 | .20 | .44 | .77 | .87 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Aug. 8 | 7.25 a. m. | 9.00 a. m. | .84 | 8.17 a. m. | 8.38 a. m. | .17 | .30 | .45 | .56 | .63 | .66 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Aug. 23 | D.N.,a. m. | 7.45 a. m. | 2.32 | 5.16 a. m. | 6.09 a. m. | .75 | .08 | .11 | .17 | .35 | .51 | .70 | .74 | .88 | 1.12 | 1.25 | 1.33 | ..... | ..... | ..... |
| Sept. 13 | 8.45 a. m. | 2.55 p. m. | 1.18 | 1.07 p. m. | 1.47 p. m. | .09 | .18 | .38 | .58 | .64 | .69 | .77 | .82 | .87 | ..... | ..... | ..... | ..... | ..... | ..... |
| Sept. 18 | 9.47 p. m. | 10.41 p. m. | 1.05 | 10.13 p. m. | 10.38 p. m. | .03 | .18 | .52 | .78 | .92 | 1.00 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Jacksonville, Fla.: | | | | | | | | | | | | | | | | | | | | |
| Mar. 24–25 | 10.55 p. m. | D.N., a. m. | 2.29 | 1.28 a. m. | 3.06 a. m. | .39 | .06 | .17 | .23 | .28 | .35 | .42 | .49 | .56 | .60 | .65 | .77 | 1.47 | 1.81 | ..... |
| June 18 | 6.10 p. m. | D.N., p. m. | 2.48 | 6.16 p. m. | 7.36 p. m. | .01 | .16 | .22 | .23 | .35 | .50 | .62 | .79 | .97 | 1.09 | 1.23 | 1.68 | 2.24 | ..... | ..... |
| June 20 | 6.05 a. m. | 10.15 a. m. | .94 | 8.25 a. m. | 8.44 a. m. | .14 | .17 | .35 | .56 | .69 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| June 22 | 10.01 a. m. | 10.35 a. m. | 1.14 | 10.02 a. m. | 10.17 a. m. | .01 | .38 | .90 | 1.11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| July 7–8 | 9.45 p. m. | D.N., a. m. | 1.93 | 12.13 a. m. | 12.57 a. m. | .80 | .10 | .25 | .34 | .37 | .48 | .60 | .69 | .89 | 1.01 | ..... | ..... | ..... | ..... | ..... |
| July 8 | 5.05 p. m. | 6.39 p. m. | .86 | 6.02 p. m. | 6.24 p. m. | .08 | .12 | .33 | .53 | .72 | .77 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| July 29 | 1.25 p. m. | 2.20 p. m. | .57 | 1.40 p. m. | 1.58 p. m. | .01 | .05 | .28 | .48 | .53 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Aug. 9 | 8.41 a. m. | 9.50 a. m. | .69 | 8.56 a. m. | 9.17 a. m. | .01 | .06 | .21 | .39 | .58 | .64 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Aug. 25 | 12.30 p. m. | 12.58 p. m. | .58 | 12.41 p. m. | 12.56 p. m. | .03 | .23 | .43 | .54 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Sept. 13–14 | 7.40 p. m. | D.N., a. m. | 1.53 | 9.41 p. m. | 10.39 p. m. | .11 | .11 | .14 | .20 | .25 | .32 | .36 | .48 | .60 | .69 | .77 | .89 | ..... | ..... | ..... |
| Dec. 13 | 7.20 a. m. | 11.15 a. m. | 1.09 | 8.29 a. m. | 9.10 a. m. | .26 | .09 | .17 | .33 | .44 | .51 | .56 | .65 | .77 | .80 | ..... | ..... | ..... | ..... | ..... |
| **FLORIDA PENINSULA.** | | | | | | | | | | | | | | | | | | | | |
| Jupiter, Fla.: | | | | | | | | | | | | | | | | | | | | |
| Dec. 31–Jan. 1 | 9.30 p. m. | 3.40 a. m. | 1.32 | 12.04 a. m. | 12.49 a. m. | .11 | .09 | .13 | .16 | .27 | .34 | .47 | .57 | .63 | .72 | ..... | ..... | ..... | ..... | ..... |
| Mar. 2 | 11.50 a. m. | 1.35 p. m. | 1.09 | 12.30 p. m. | 1.31 p. m. | .10 | .07 | .16 | .37 | .42 | .47 | .48 | .55 | .59 | .66 | .80 | .94 | .99 | ..... | ..... |
| Apr. 11 | 6.38 a. m. | 3.30 p. m. | 2.50 | 7.15 a. m. | 9.10 a. m. | .03 | .14 | .25 | .29 | .32 | .36 | .47 | .51 | .52 | .55 | .64 | .81 | .93 | 1.46 | 1.62 |
| May 8–9 | 11.00 p. m. | 6.15 a. m. | 1.22 | 5.22 a. m. | 6.13 a. m. | .37 | .22 | .24 | .27 | .28 | .29 | .32 | .45 | .51 | .70 | .84 | ..... | ..... | ..... | ..... |
| May 18 | 2.14 p. m. | 3.00 p. m. | 1.10 | 2.17 p. m. | 2.47 p. m. | .01 | .11 | .33 | .52 | .68 | .85 | 1.08 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| May 20–21 | 6.32 p. m. | 1.10 a. m. | 2.16 | 8.39 p. m. | 9.35 p. m. | .48 | .05 | .29 | .46 | .56 | .57 | .61 | .79 | .98 | 1.22 | 1.37 | 1.58 | ..... | ..... | ..... |
| May 22 | 8.29 a. m. | 2.45 p. m. | .93 | 2.26 p. m. | 2.39 p. m. | .31 | .26 | .58 | .62 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| July 29 | 6.00 a. m. | 8.30 a. m. | .96 | 7.11 a. m. | 7.54 a. m. | .15 | .13 | .31 | .35 | .37 | .41 | .58 | .65 | .74 | .79 | ..... | ..... | ..... | ..... | ..... |
| Aug. 28 | 4.10 p. m. | 4.55 p. m. | .83 | 4.26 p. m. | 4.51 p. m. | .08 | .06 | .15 | .36 | .53 | .75 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Sept. 12 | 2.16 p. m. | 7.40 p. m. | 2.24 | 2.18 p. m. | 2.56 p. m. | .01 | .20 | .52 | .99 | 1.40 | 1.65 | 1.81 | 1.91 | 1.95 | ..... | ..... | ..... | ..... | ..... | ..... |
| Oct. 28 | 1.05 p. m. | 3.35 p. m. | 2.38 | 1.11 p. m. | 1.56 p. m. | .01 | .42 | .82 | 1.19 | 1.39 | 1.60 | 1.79 | 2.00 | 2.10 | 2.16 | ..... | ..... | ..... | ..... | ..... |
| Key West, Fla.: | | | | | | | | | | | | | | | | | | | | |
| May 8 | 10.00 a. m. | 6.25 p. m. | 3.92 | 11.03 a. m. | 12.58 p. m. | .04 | .09 | .20 | .31 | .47 | .62 | .86 | .89 | .92 | .98 | 1.00 | 1.06 | 1.33 | 2.13 | 2.63 |
| | | | | 4.25 p. m. | 4.50 p. m. | 2.84 | .12 | .34 | .54 | .74 | .86 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| May 22 | 5.30 p. m. | 9.00 p. m. | .75 | 5.39 p. m. | 5.53 p. m. | T. | .15 | .46 | .65 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| June 28–29 | 7.32 p. m. | 6.50 a. m. | 3.90 | 7.34 p. m. | 8.19 p. m. | .02 | .25 | .59 | .95 | 1.16 | 1.36 | 1.50 | 1.62 | 1.71 | 1.82 | ..... | ..... | ..... | ..... | ..... |
| | | | | 10.18 p. m. | 11.53 p. m. | 1.97 | .31 | .50 | .54 | .61 | .67 | .72 | .75 | .79 | .86 | .88 | .97 | 1.27 | 1.59 | ..... |
| Aug. 17 | 11.25 a. m. | 4.15 p. m. | 1.74 | 11.27 a. m. | 1.06 p. m. | .01 | .20 | .24 | .28 | .39 | .44 | .59 | .67 | .70 | .70 | .71 | .71 | 1.23 | 1.66 | ..... |
| Sept. 26 | 7.30 a. m. | 8.42 a. m. | 1.08 | 7.37 a. m. | 8.21 a. m. | .01 | .10 | .26 | .38 | .58 | .70 | .80 | .95 | 1.01 | 1.06 | ..... | ..... | ..... | ..... | ..... |
| | | | | 8.46 a. m. | 9.36 a. m. | 5.88 | .07 | .19 | .36 | .46 | .55 | .81 | 1.09 | 1.32 | 1.56 | 1.74 | ..... | ..... | ..... | ..... |
| | | | | 9.36 a. m. | 10.26 a. m. | ..... | 1.96 | 2.28 | 2.57 | 2.83 | 3.17 | 3.52 | 3.82 | 4.13 | 4.32 | 4.52 | ..... | ..... | ..... | ..... |
| Oct. 9–11 | 9.15 p. m. | 3.25 p. m. | 12.22 | 10.26 a. m. | 11.16 a. m. | ..... | 4.66 | 4.83 | 5.00 | 5.12 | 5.32 | 5.39 | 5.47 | 5.51 | 5.57 | 5.62 | ..... | ..... | ..... | ..... |
| | | | | 11.16 a. m. | 11.40 a. m. | ..... | 5.69 | 5.83 | 5.94 | 6.06 | 6.10 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |

[1] Estimated.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1909, ETC.—Continued.

| Station and date. | Total duration. | | Total amount of precipitation (inches). | Excessive rate | | Amount before excessive rate began (inches). | Accumulated amounts of precipitation (in inches) during periods of time indicated. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | From— | To— | | Began— | Ended— | | 5 min. | 10 min. | 15 min. | 20 min. | 25 min. | 30 min. | 35 min. | 40 min. | 45 min. | 50 min. | 60 min. | 80 min. | 100 min. | 120 min. |
| FLORIDA PENINSULA—continued. | | | | | | | | | | | | | | | | | | | | |
| Sand Key, Fla.: | | | | | | | | | | | | | | | | | | | | |
| May 8 | 8.55 a. m. | 7.20 p. m. | 2.25 | 10.30 a. m. | 11.20 a. m. | 0.11 | 0.07 | 0.17 | 0.29 | 0.38 | 0.50 | 0.59 | 0.64 | 0.68 | 0.71 | 0.76 | | | | |
| | | | | 11.54 a. m. | 12.19 p. m. | .99 | .10 | .30 | .41 | .59 | .67 | | | | | | | | | |
| June 28–29 | 9.40 p. m. | 1.00 a. m. | 1.67 | 10.04 p. m. | 11.09 p. m. | .01 | .06 | .12 | .31 | .49 | .61 | .65 | .76 | .83 | .97 | 1.25 | 1.49 | 1.63 | | |
| July 13 | 3.07 p. m. | 7.10 p. m. | 1.75 | 3.18 p. m. | 3.42 p. m. | .01 | .13 | .53 | .96 | 1.27 | 1.43 | | | | | | | | | |
| Aug. 26 | 12.10 p. m. | 3.00 p. m. | .64 | 12.22 p. m. | 12.48 p. m. | .01 | .07 | .10 | .22 | .41 | .49 | .51 | | | | | | | | |
| Sept. 3 | 6.25 a. m. | 7.10 a. m. | .61 | 6.53 a. m. | 7.03 a. m. | .09 | .29 | .52 | | | | | | | | | | | | |
| Sept. 27–28 | 8.51 p. m. | 7.50 a. m. | 1.93 | 1.49 a. m. | 2.19 a. m. | .32 | .10 | .13 | .44 | .89 | 1.24 | 1.40 | | | | | | | | |
| Tampa, Fla.: | | | | | | | | | | | | | | | | | | | | |
| Jan. 4–5 | 6.37 p. m. | 7.10 a. m. | 1.67 | 6.48 p. m. | 7.10 p. m. | .01 | .19 | .52 | .73 | .79 | .83 | | | | | | | | | |
| May 3 | 9.07 a. m. | 1.50 p. m. | 1.31 | 9.53 a. m. | 11.00 a. m. | .03 | .09 | .16 | .19 | .23 | .28 | .32 | .46 | .57 | .63 | .71 | .85 | 1.03 | | |
| June 5 | 7.15 a. m. | 10.50 a. m. | 1.22 | 8.55 a. m. | 10.00 a. m. | .01 | .14 | .26 | .29 | .29 | .38 | .64 | .68 | .79 | .81 | .85 | .99 | 1.18 | | |
| June 16 | 4.37 p. m. | 8.00 p. m. | 1.19 | 4.41 p. m. | 5.11 p. m. | T. | .32 | .61 | .82 | .94 | 1.05 | 1.11 | | | | | | | | |
| June 29–30 | 12.24 p. m. | 5.40 p. m. | 5.75 | 7.15 p. m. | 8.48 p. m. | 1.24 | .10 | .21 | .29 | .30 | .39 | .53 | .65 | .78 | .92 | 1.07 | 1.28 | 1.47 | 1.65 | |
| Aug. 16 | 11.05 a. m. | 2.25 p. m. | 1.73 | 11.27 a. m. | 11.54 a. m. | .01 | .35 | .65 | .96 | 1.20 | 1.32 | 1.36 | | | | | | | | |
| Aug. 19–20 | 9.20 p. m. | 1.00 a. m. | 1.92 | 9.50 p. m. | 10.57 p. m. | .10 | .06 | .19 | .27 | .37 | .54 | .67 | .86 | 1.03 | 1.16 | 1.26 | 1.46 | 1.69 | | |
| Aug. 30 | 11.20 a. m. | 4.30 p. m. | 2.51 | 1.31 p. m. | 2.36 p. m. | .32 | .25 | .33 | .36 | .41 | .46 | .47 | .53 | .62 | .72 | .88 | 1.23 | 1.50 | | |
| Sept. 3 | 3.58 p. m. | 4.44 p. m. | .78 | 4.00 p. m. | 4.25 p. m. | .01 | .22 | .40 | .53 | .71 | .76 | | | | | | | | | |
| EAST GULF STATES. | | | | | | | | | | | | | | | | | | | | |
| Atlanta, Ga.: | | | | | | | | | | | | | | | | | | | | |
| Feb. 5 | 4.50 p. m. | 9.05 p. m. | .74 | 6.00 p. m. | 6.20 p. m. | .05 | .34 | .42 | .49 | .56 | | | | | | | | | | |
| Mar. 9 | 3.38 p. m. | 10.05 p. m. | 2.29 | 5.14 p. m. | 5.54 p. m. | .05 | .21 | .54 | .84 | .96 | 1.02 | 1.14 | 1.27 | 1.34 | | | | | | |
| June 24 | 4.10 p. m. | 5.35 p. m. | .79 | 4.32 p. m. | 4.54 p. m. | .01 | .19 | .40 | .55 | .69 | .73 | | | | | | | | | |
| Aug. 2 | 9.50 a. m. | 4.00 p. m. | 1.77 | 10.28 a. m. | 11.05 a. m. | .01 | .17 | .30 | .46 | .64 | 1.15 | 1.41 | 1.50 | 1.54 | | | | | | |
| Aug. 11 | 12.12 p. m. | 1.35 p. m. | 1.01 | 12.14 p. m. | 1.08 p. m. | .01 | .22 | .30 | .31 | .32 | .53 | .66 | .70 | .73 | .73 | .83 | .95 | | | |
| Macon, Ga.: | | | | | | | | | | | | | | | | | | | | |
| Feb. 9–10 | 3.05 p. m. | D.N., a. m. | 3.88 | 5.07 p. m. | 6.15 p. m. | .27 | .09 | .20 | .31 | .41 | .45 | .48 | .59 | .70 | .78 | .82 | .99 | 1.17 | | |
| | | | | 7.10 p. m. | 7.52 p. m. | 1.65 | .06 | .13 | .23 | .27 | .32 | .41 | .60 | .67 | .72 | | | | | |
| Mar. 9–10 | 7.40 p. m. | D.N., a. m. | .96 | 10.03 p. m. | 10.12 p. m. | .16 | .37 | .45 | | | | | | | | | | | | |
| July 7 | 7.32 p. m. | D.N., p. m. | .85 | 7.35 p. m. | 7.48 p. m. | .01 | .42 | .69 | .80 | | | | | | | | | | | |
| Aug. 5 | 2.18 p. m. | 3.50 p. m. | .57 | 2.59 p. m. | 3.15 p. m. | .02 | .24 | .39 | .53 | .65 | | | | | | | | | | |
| Aug. 6 | 5.00 p. m. | 6.40 p. m. | 1.08 | 5.08 p. m. | 5.35 p. m. | .01 | .14 | .47 | .73 | .85 | .93 | .98 | | | | | | | | |
| Sept. 16 | 4.04 p. m. | D.N., p. m. | 1.56 | 6.31 p. m. | 7.00 p. m. | .26 | .18 | .51 | .91 | 1.09 | 1.13 | 1.19 | | | | | | | | |
| Thomasville, Ga.: | | | | | | | | | | | | | | | | | | | | |
| Apr. 23 | 1.45 p. m. | 2.30 p. m. | .81 | 2.03 p. m. | 2.14 p. m. | .03 | .35 | .68 | .70 | | | | | | | | | | | |
| June 18 | 12.20 p. m. | 1.20 p. m. | 1.56 | 12.26 p. m. | 12.59 p. m. | .02 | .22 | .48 | .91 | 1.20 | 1.32 | 1.43 | 1.49 | | | | | | | |
| June 19 | 12.55 p. m. | 5.40 p. m. | 1.81 | 1.00 p. m. | 1.25 p. m. | .02 | .15 | .49 | .83 | 1.05 | 1.14 | | | | | | | | | |
| June 27 | 2.02 p. m. | 5.18 p. m. | 4.49 | 2.17 p. m. | 3.18 p. m. | .01 | .21 | .52 | .64 | .78 | 1.11 | 1.68 | 2.23 | 2.94 | 3.38 | 3.77 | 4.14 | 4.26 | | |
| July 29 | 1.52 p. m. | 3.05 p. m. | 1.69 | 2.02 p. m. | 2.40 p. m. | .01 | .39 | .72 | 1.10 | 1.23 | 1.35 | 1.51 | 1.58 | 1.63 | | | | | | |
| Aug. 13 | 1.10 p. m. | 2.22 p. m. | 1.75 | 1.14 p. m. | 1.37 p. m. | .01 | .24 | .74 | 1.21 | 1.58 | 1.62 | | | | | | | | | |
| Aug. 20 | 1.10 p. m. | 3.45 p. m. | 1.29 | 2.07 p. m. | 2.29 p. m. | .09 | .44 | .76 | .86 | 1.02 | 1.08 | | | | | | | | | |
| Sept. 17 | 1.40 p. m. | 7.03 p. m. | 3.13 | 1.44 p. m. | 2.49 p. m. | .02 | .16 | .20 | .27 | .47 | .83 | 1.35 | 1.93 | 2.37 | 2.61 | 2.75 | 2.86 | 2.99 | | |
| Nov. 23 | 7.12 p. m. | 8.22 p. m. | 1.36 | 7.38 p. m. | 7.59 p. m. | .02 | .47 | .75 | .88 | 1.31 | 1.33 | | | | | | | | | |
| Pensacola, Fla.: | | | | | | | | | | | | | | | | | | | | |
| Feb. 9 | 8.05 p. m. | 10.30 p. m. | .94 | 8.37 p. m. | 9.32 p. m. | .08 | .11 | .21 | .26 | .32 | .37 | .53 | .58 | .67 | .69 | .77 | .85 | | | |
| Feb. 13 | 8.30 p. m. | 10.15 p. m. | 1.02 | 8.40 p. m. | 9.20 p. m. | .03 | .09 | .28 | .34 | .36 | .56 | .78 | .91 | .98 | | | | | | |
| Mar. 9 | 5.35 p. m. | 9.20 p. m. | 1.08 | 6.29 p. m. | 6.50 p. m. | .10 | .26 | .32 | .45 | .59 | .62 | | | | | | | | | |
| Apr. 24 | 5 40 p. m. | 11.00 p. m. | 1.56 | 8.24 p. m. | 9.44 p. m. | .02 | .07 | .14 | .27 | .45 | .50 | .54 | .59 | .64 | .66 | .68 | .98 | 1.37 | | |
| May 24 | 7.25 p. m. | 11.55 p. m. | 1.39 | 10.07 p. m. | 10.37 p. m. | .16 | .12 | .36 | .67 | .92 | 1.05 | 1.13 | | | | | | | | |
| July 2 | 2.40 p. m. | 8.15 p. m. | 1.50 | 2.47 p. m. | 3.08 p. m. | .01 | .23 | .62 | 1.00 | 1.06 | 1.10 | | | | | | | | | |
| July 3 | 2.30 a. m. | 3.50 a. m. | 1.22 | 2.54 a. m. | 3.19 a. m. | .02 | .18 | .52 | .72 | .91 | 1.19 | | | | | | | | | |
| Aug. 9 | 7.30 a. m. | 5.45 p. m. | 1.95 | 11.56 a. m. | 12.21 p. m. | .57 | .21 | .44 | .82 | .98 | 1.10 | | | | | | | | | |
| Aug. 15 | 7.20 p. m. | 9.10 p. m. | .92 | 7.32 p. m. | 7.56 p. m. | .03 | .20 | .36 | .58 | .70 | .80 | | | | | | | | | |
| Aug. 19 | 12.20 p. m. | 1.55 p. m. | 1.29 | 12.38 p. m. | 1.33 p. m. | .01 | .07 | .22 | .39 | .47 | .55 | .63 | .75 | .85 | .96 | 1.09 | 1.23 | | | |
| Aug. 21 | 4.30 p. m. | 5.45 p. m. | .83 | 5.12 p. m. | 5.35 p. m. | .01 | .17 | .50 | .66 | .76 | .81 | | | | | | | | | |
| Oct. 10 | 10.35 a. m. | 12.45 p. m. | 1.67 | 11.21 a. m. | 12.21 p. m. | .08 | .10 | .31 | .49 | .75 | .95 | 1.10 | 1.20 | 1.27 | 1.32 | 1.36 | 1.50 | | | |
| Oct. 20 | 11.45 a. m. | 9.50 p. m. | 5.46 | 6.42 p. m. | 8.25 p. m. | .57 | .05 | .12 | .26 | .33 | .92 | 1.72 | 2.45 | 3.21 | 3.70 | 3.98 | 4.27 | 4.49 | 4.73 | 4.82 |
| Dec. 6 | 5.15 p. m. | 6.45 p. m. | 1.36 | 5.39 p. m. | 6.15 p. m. | .05 | .06 | .32 | .42 | .58 | .72 | 1.03 | 1.22 | 1.23 | | | | | | |
| Dec. 12 | 9.15 a. m. | 8.30 p. m. | 1.08 | 10.29 a. m. | 10.44 a. m. | .05 | .23 | .62 | .78 | | | | | | | | | | | |
| Anniston, Ala.: | | | | | | | | | | | | | | | | | | | | |
| Mar. 9 | 12.38 p. m. | 8.00 p. m. | 2.68 | 1.32 p. m. | 2.11 p. m. | .08 | .11 | .24 | .75 | .98 | 1.04 | 1.05 | 1.15 | 1.21 | | | | | | |
| Mar. 12–13 | 9.15 a. m. | 3.00 p. m. | 3.24 | 9.04 a. m. | 10.05 a. m. | .70 | .13 | .23 | .40 | .52 | .61 | .66 | .73 | .82 | .88 | .95 | 1.21 | | | |
| Apr. 22 | 5.25 p. m. | 10.30 p. m. | 3.34 | 5.34 p. m. | 6.44 p. m. | .02 | .24 | .36 | .64 | 1.07 | 1.42 | 1.67 | 1.95 | 2.09 | 2.17 | 2.29 | 2.56 | 2.84 | | |
| Apr. 23 | D.N., a. m. | D.N., a. m. | 1.21 | 3.47 a. m. | 4.26 a. m. | .17 | .08 | .12 | .16 | .23 | .31 | .43 | .83 | .94 | | | | | | |
| Apr. 30 | 3.45 p. m. | 8.55 p. m. | 2.17 | 6.26 p. m. | 7.16 p. m. | .04 | .26 | .59 | .82 | .96 | 1.06 | 1.37 | 1.51 | 1.61 | 1.70 | 1.77 | | | | |
| July 13 | 7.55 p. m. | 9.50 p. m. | 1.44 | 8.00 p. m. | 8.26 p. m. | .01 | .24 | .74 | 1.12 | 1.27 | 1.36 | 1.39 | | | | | | | | |
| Dec. 6–7 | 3.43 p. m. | 7.10 a. m. | 2.26 | 8.21 p. m. | 9.12 p. m. | .66 | .11 | .31 | .41 | .48 | .58 | .66 | .71 | .83 | .94 | 1.02 | 1.07 | | | |
| Birmingham, Ala.: | | | | | | | | | | | | | | | | | | | | |
| Feb. 21–22 | D.N., p. m. | 4.15 a. m. | 1.15 | 1.55 a. m. | 2.20 a. m. | .21 | .18 | .39 | .52 | .64 | .76 | | | | | | | | | |
| Apr. 23 | 2.15 a. m. | 4.00 a. m. | .84 | 2.41 a. m. | 2.56 a. m. | .09 | .09 | .41 | .61 | | | | | | | | | | | |
| Apr. 30 | 4.15 p. m. | D.N., p. m. | 1.90 | 4.29 p. m. | 5.26 p. m. | .01 | .12 | .15 | .20 | .35 | .54 | .69 | .78 | .79 | .84 | 1.09 | 1.31 | | | |
| June 22 | 1.22 p. m. | 3.50 p. m. | .80 | 2.00 p. m. | 2.30 p. m. | .01 | .15 | .25 | .27 | .35 | .52 | .65 | | | | | | | | |
| July 13–14 | 7.37 p. m. | D.N., a. m. | 1.87 | 8.02 p. m. | 8.54 p. m. | .01 | .26 | .54 | .90 | .91 | .93 | .94 | .98 | 1.12 | 1.23 | 1.33 | 1.37 | | | |
| July 23 | 4.10 a. m. | 6.40 a. m. | 1.29 | 4.29 a. m. | 5.22 a. m. | .12 | .22 | .38 | .52 | .66 | .75 | .80 | .83 | .84 | .93 | 1.01 | 1.06 | | | |
| Sept. 1 | 12.15 p. m. | 3.10 p. m. | .94 | 12.46 p. m. | 1.25 p. m. | .01 | .23 | .46 | .46 | .55 | .69 | .72 | .78 | .89 | | | | | | |

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1909, ETC.—Continued.

| Station and date. | Total duration. | | Total amount of precipitation (inches). | Excessive rate. | | Amount before excessive rate began (inches). | Accumulated amounts of precipitation (in inches) during periods of time indicated. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | From— | To— | | Began— | Ended— | | 5 min. | 10 min. | 15 min. | 20 min. | 25 min. | 30 min. | 35 min. | 40 min. | 45 min. | 60 min. | 60 min. | 80 min. | 100 min. | 120 min. |
| EAST GULF STATES—continued. | | | | | | | | | | | | | | | | | | | | |
| Mobile, Ala.: | | | | | | | | | | | | | | | | | | | | |
| Feb. 5 | 4.55 p. m. | 5.45 p. m. | 0.56 | 5.08 p. m. | 5.19 p. m. | 0.03 | 0.40 | 0.48 | 0.52 | | | | | | | | | | | |
| Apr. 7–8 | 9.30 p. m. | 5.15 p. m. | 3.23 | 2.40 a. m. | 3.30 a. m. | .98 | .07 | .12 | .18 | 0.25 | 0.32 | 0.37 | 0.43 | 0.47 | 0.52 | 0.59 | | | | |
| | | | | 3.30 a. m. | 4.20 a. m. | ..... | .63 | .67 | .71 | .75 | .81 | .89 | .97 | 1.04 | 1.07 | 1.11 | | | | |
| | | | | 4.20 a. m. | 4.59 a. m. | ..... | 1.15 | 1.25 | 1.34 | 1.39 | 1.45 | 1.50 | 1.54 | 1.62 | | | | | | |
| Apr. 26–27 | D.N.,p. m. | D.N.,a. m. | 1.85 | 3.15 a. m. | 3.35 a. m. | .90 | .09 | .13 | .16 | .26 | .44 | .55 | .70 | .90 | | | | | | |
| May 19 | 8.44 a. m. | 1.25 p. m. | 2.91 | 9.02 a. m. | 10.40 a. m. | .01 | .12 | .20 | .33 | .48 | .55 | .78 | 1.05 | 1.21 | 1.37 | 1.55 | 1.63 | 1.87 | 2.42 | |
| May 24–25 | 6.20 p. m. | 11.00 a. m. | 2.73 | 8.37 p. m. | 9.05 p. m. | .10 | .11 | .35 | .73 | 1.22 | 1.33 | 1.41 | | | | | | | | |
| May 25 | 8.05 p. m. | D.N.,p. m. | 2.40 | 8.39 p. m. | 8.55 p. m. | .02 | .22 | .52 | .83 | .85 | | | | | | | | | | |
| June 20 | 7.35 a. m. | 3.05 p. m. | 2.76 | 7.50 a. m. | 9.20 a. m. | .01 | .07 | .09 | .12 | .19 | .32 | .51 | .67 | .90 | .93 | .95 | 1.02 | 1.38 | 1.78 | |
| July 3 | D.N.,a. m. | 5.20 a. m. | 1.69 | 3.18 a. m. | 4.32 a. m. | .05 | .24 | .41 | .45 | .46 | .46 | .50 | .61 | .64 | .65 | .67 | .90 | 1.30 | | |
| July 18 | 6.45 p. m. | 9.20 p. m. | 1.18 | 6.50 p. m. | 7.35 p. m. | .01 | .14 | .29 | .46 | .61 | .77 | .89 | .97 | 1.02 | 1.08 | | | | | |
| July 23 | 12.35 p. m. | 2.50 p. m. | 1.28 | 1.13 p. m. | 2.02 p. m. | .16 | .10 | .34 | .39 | .39 | .39 | .54 | .81 | .83 | .96 | 1.07 | | | | |
| Sept. 16 | 3.17 p. m. | 5.55 p. m. | 1.77 | 3.28 p. m. | 4.25 p. m. | .02 | .20 | .47 | .73 | .91 | 1.01 | 1.17 | 1.33 | 1.44 | 1.50 | 1.57 | 1.67 | | | |
| Montgomery, Ala.: | | | | | | | | | | | | | | | | | | | | |
| Jan. 15–16 | D.N.,p. m. | 8.25 a. m. | 1.39 | 7.03 a. m. | 8.00 a. m. | .34 | .12 | .33 | .47 | .56 | .59 | .62 | .63 | .64 | .66 | .82 | 1.03 | | | |
| Feb. 9 | 10.43 a. m. | 8.37 p. m. | 4.35 | 1.10 p. m. | 2.19 p. m. | .13 | .05 | .14 | .27 | .50 | .58 | .65 | .68 | .76 | .83 | .89 | .92 | 1.18 | | |
| | | | | 2.45 p. m. | 3.42 p. m. | 1.38 | .13 | .17 | .22 | .50 | .77 | .83 | .90 | 1.01 | 1.08 | 1.17 | 1.48 | | | |
| | | | | 2.05 p. m. | 2.55 p. m. | .05 | .06 | .15 | .40 | .62 | .87 | 1.01 | 1.02 | 1.04 | 1.15 | 1.27 | | | | |
| | | | | 2.55 p. m. | 3.45 p. m. | ..... | 1.38 | 1.62 | 1.64 | 1.67 | 1.79 | 1.84 | 1.91 | 1.96 | 2.00 | 2.08 | | | | |
| Mar. 9 | 11.58 a. m. | 8.45 p. m. | 5.53 | 3.45 p. m. | 4.35 p. m. | ..... | 2.17 | 2.26 | 2.31 | 2.35 | 2.41 | 2.45 | 2.54 | 2.83 | 2.98 | 3.08 | | | | |
| | | | | 4.35 p. m. | 5.25 p. m. | ..... | 3.36 | 3.63 | 3.74 | 3.82 | 3.98 | 4.16 | 4.35 | 4.54 | 4.60 | 4.65 | | | | |
| | | | | 5.25 p. m. | 6.04 p. m. | ..... | 4.66 | 4.67 | 4.73 | 4.88 | 4.96 | 5.01 | 5.06 | 5.09 | | | | | | |
| Mar. 11–12 | 2.34 p. m. | 10.22 a. m. | 5.42 | 8.15 p. m. | 9.37 p. m. | 2.55 | .10 | .22 | .27 | .33 | .42 | .45 | .46 | .58 | .76 | .91 | .99 | 1.59 | 1.61 | |
| Mar. 19–20 | 5.25 p. m. | 3.40 p. m. | 2.83 | 9.42 a. m. | 9.55 a. m. | 1.36 | .13 | .50 | .70 | | | | | | | | | | | |
| Apr. 23 | 5.55 a. m. | 8.18 a. m. | 1.56 | 6.51 a. m. | 7.38 a. m. | .09 | .24 | .57 | .77 | .89 | 1.08 | 1.23 | 1.33 | 1.35 | 1.41 | 1.44 | | | | |
| Apr. 30–May 1 | 8.05 p. m. | D.N.,a. m. | 1.57 | 8.29 p. m. | 9.02 p. m. | .03 | .16 | .40 | .53 | .76 | 1.00 | 1.16 | 1.23 | | | | | | | |
| July 16 | 2.20 p. m. | 4.00 p. m. | 1.58 | 2.43 p. m. | 3.27 p. m. | .01 | .36 | .71 | .95 | 1.13 | 1.28 | 1.33 | 1.43 | 1.47 | 1.51 | | | | | |
| July 30 | 12.09 p. m. | 2.20 p. m. | .78 | 12.16 p. m. | 12.31 p. m. | .03 | .23 | .42 | .65 | | | | | | | | | | | |
| Aug. 7 | 4.17 p. m. | 8.30 p. m. | 1.60 | 4.18 p. m. | 4.52 p. m. | .01 | .19 | .59 | .72 | .83 | .93 | 1.01 | 1.06 | | | | | | | |
| Meridian, Miss.: | | | | | | | | | | | | | | | | | | | | |
| Feb. 9 | 11.02 a. m. | 12.40 p. m. | .73 | 11.40 a. m. | 12.00 m. | .08 | .12 | .29 | .45 | .53 | | | | | | | | | | |
| Apr. 7 | 1.32 a. m. | 6.00 a. m. | 1.80 | 1.36 a. m. | 2.21 a. m. | .01 | .18 | .45 | .59 | .67 | .82 | .92 | 1.00 | 1.07 | 1.14 | | | | | |
| Apr. 12–13 | 10.30 p. m. | D.N.,a. m. | 1.44 | 10.35 p. m. | 10.55 p. m. | .01 | .30 | .48 | .58 | .66 | | | | | | | | | | |
| Apr. 25 | D.N.,a. m. | 5.40 p. m. | 3.30 | 7.30 a. m. | 7.40 a. m. | 1.49 | .26 | .53 | | | | | | | | | | | | |
| May 16 | 7.03 p. m. | 8.45 p. m. | 1.11 | 7.22 p. m. | 7.45 p. m. | .03 | .18 | .41 | .62 | .90 | 1.03 | | | | | | | | | |
| May 24–25 | 3.44 p. m. | 6.15 a. m. | 4.89 | 11.44 p. m. | 12.14 a. m. | 1.38 | .07 | .18 | .45 | .78 | 1.01 | 1.09 | | | | | | | | |
| | | | | 1.30 a. m. | 2.27 a. m. | 2.54 | .16 | .45 | .60 | .68 | .74 | .79 | .88 | .99 | 1.13 | 1.27 | 1.36 | | | |
| May 26 | D.N.,a. m. | 8.10 a. m. | 1.79 | 7.06 a. m. | 7.18 a. m. | .92 | .51 | .60 | | | | | | | | | | | | |
| May 26 | 1.55 p. m. | 3.50 p. m. | 1.41 | 1.57 p. m. | 2.45 p. m. | .01 | .19 | .35 | .37 | .41 | .46 | .53 | .85 | 1.11 | 1.21 | 1.25 | | | | |
| June 20–21 | 11.30 a. m. | D.N.,a. m. | 1.98 | 12.30 a. m. | 1.12 a. m. | .95 | .08 | .19 | .38 | .50 | .51 | .56 | .66 | .76 | .81 | | | | | |
| June 22 | 12.56 p. m. | 2.15 p. m. | 1.45 | 12.59 p. m. | 1.39 p. m. | .02 | .19 | .34 | .51 | .70 | .86 | .99 | 1.11 | 1.30 | | | | | | |
| Sept. 8 | 4.10 p. m. | 5.50 p. m. | 1.36 | 4.13 p. m. | 4.49 p. m. | .01 | .29 | .59 | .76 | 1.03 | 1.18 | 1.24 | 1.31 | 1.33 | | | | | | |
| Sept. 14 | 11.21 a. m. | 1.47 p. m. | 1.78 | 12.11 p. m. | 12.43 p. m. | .22 | .22 | .38 | .56 | .70 | .85 | 1.10 | 1.14 | | | | | | | |
| Oct. 20 | 7.15 p. m. | 8.27 p. m. | .79 | 7.27 p. m. | 8.20 p. m. | .02 | .07 | .13 | .28 | .41 | .45 | .48 | .51 | .58 | .61 | .71 | .77 | | | |
| Vicksburg, Miss.: | | | | | | | | | | | | | | | | | | | | |
| Feb. 9 | D.N.,a. m. | D.N.,a. m. | .99 | 2.28 a. m. | 2.52 a. m. | .25 | .10 | .14 | .40 | .67 | .74 | | | | | | | | | |
| Feb. 23 | 9.00 a. m. | 11.40 a. m. | .80 | 10.22 a. m. | 10.34 a. m. | .10 | .21 | .50 | .55 | | | | | | | | | | | |
| Mar. 19 | 4.00 p. m. | 6.40 p. m. | 1.62 | 5.43 p. m. | 6.03 p. m. | .27 | .18 | .80 | 1.20 | 1.33 | | | | | | | | | | |
| Apr. 12 | 5.45 p. m. | D.N.,p. m. | 2.24 | 7.00 p. m. | 7.40 p. m. | .03 | .74 | 1.10 | 1.25 | 1.36 | 1.46 | 1.57 | 1.66 | 1.73 | | | | | | |
| Apr. 25 | 12.40 a. m. | D.N.,a. m. | 1.22 | 2.56 a. m. | 3.32 a. m. | .33 | .09 | .17 | .36 | .63 | .72 | .77 | .83 | .89 | | | | | | |
| May 25–26 | 8.06 p. m. | 6.05 a. m. | 3.24 | 11.42 p. m. | 12.10 a. m. | .12 | .46 | .87 | 1.19 | 1.40 | 1.51 | 1.56 | | | | | | | | |
| May 31 | D.N.,a. m. | D.N.,a. m. | 1.07 | 3.09 a. m. | 3.25 a. m. | .07 | .24 | .64 | .82 | .86 | | | | | | | | | | |
| June 22 | 4.45 p. m. | 7.10 p. m. | .96 | 4.45 p. m. | 5.02 p. m. | .00 | .35 | .63 | .72 | .76 | | | | | | | | | | |
| July 9 | 5.57 p. m. | 7.10 p. m. | 1.13 | 5.57 p. m. | 6.21 p. m. | .00 | .19 | .47 | .72 | 1.00 | 1.09 | | | | | | | | | |
| Aug. 2 | 12.40 p. m. | 1.40 p. m. | 1.13 | 12.44 p. m. | 1.16 p. m. | .02 | .17 | .42 | .59 | .82 | .93 | 1.01 | 1.07 | | | | | | | |
| Sept. 20–21 | 11.20 a. m. | 10.15 a. m. | 3.71 | 12.01 a. m. | 1.42 a. m. | 1.65 | .05 | .10 | .15 | .20 | .26 | .31 | .36 | .44 | .54 | .64 | .89 | 1.51 | 1.91 | 1.97 |
| Oct. 9 | D.N.,a. m. | 9.40 a. m. | 1.82 | 4.30 a. m. | 5.28 a. m. | .22 | .06 | .19 | .34 | .46 | .52 | .56 | .60 | .64 | .70 | .84 | .99 | | | |
| New Orleans: | | | | | | | | | | | | | | | | | | | | |
| Jan. 14 | 3.55 p. m. | 8.50 p. m. | 1.35 | 6.22 p. m. | 7.10 p. m. | .18 | .09 | .17 | .27 | .41 | .55 | .67 | .73 | .82 | .90 | .95 | | | | |
| Feb. 9 | 10.30 a. m. | 5.25 p. m. | 2.55 | 11.13 a. m. | 11.37 a. m. | .03 | .12 | .14 | .28 | .45 | .58 | | | | | | | | | |
| | | | | 3.32 p. m. | 4.22 p. m. | 1.50 | .12 | .18 | .20 | .28 | .37 | .43 | .60 | .67 | .70 | .86 | | | | |
| Mar. 7–8 | 8.05 p. m. | 1.45 p. m. | 4.34 | 12.12 a. m. | 12.56 a. m. | .63 | .15 | .18 | .20 | .29 | .48 | .51 | .64 | .77 | .83 | | | | | |
| | | | | 5.05 a. m. | 5.31 a. m. | 2.84 | .11 | .19 | .33 | .53 | .61 | .60 | | | | | | | | |
| Mar. 13–14 | 8.20 p. m. | 9.05 a. m. | 2.08 | 3.18 a. m. | 3.47 a. m. | .78 | .05 | .17 | .40 | .56 | .61 | .69 | | | | | | | | |
| Mar. 24 | 12.25 p. m. | 7.15 p. m. | .82 | 1.00 p. m. | 1.14 p. m. | T. | .25 | .49 | .55 | | | | | | | | | | | |
| Apr. 12–13 | 9.20 p. m. | D.N.,a. m. | 1.35 | 11.25 p. m. | 12.10 a. m. | .09 | .15 | .55 | .69 | .76 | .80 | .84 | .88 | .93 | .98 | | | | | |
| Apr. 23 | 6.14 a. m. | 8.45 a. m. | 1.26 | 6.27 a. m. | 7.29 a. m. | .01 | .06 | .14 | .20 | .26 | .31 | .44 | .63 | .80 | .86 | .91 | 1.12 | 1.18 | | |
| Apr. 30 | 8.30 p. m. | 9.15 p. m. | .65 | 8.47 p. m. | 9.03 p. m. | T. | .20 | .48 | .62 | .64 | | | | | | | | | | |
| May 26 | 4.04 p. m. | 6.30 p. m. | 2.25 | 4.04 p. m. | 4.65 p. m. | .00 | .11 | .34 | .64 | .94 | 1.31 | 1.60 | 1.70 | 1.76 | 1.82 | 1.92 | 1.97 | | | |
| June 2 | D.N.,a. m. | 6.10 a. m. | 2.07 | 1.51 a. m. | 2.08 a. m. | .04 | .05 | .25 | .45 | .50 | | | | | | | | | | |
| | | | | 2.52 a. m. | 3.35 a. m. | .58 | .06 | .21 | .35 | .47 | .65 | .79 | .95 | 1.18 | 1.22 | | | | | |
| June 13 | 11.35 a. m. | 3.10 p. m. | .77 | 2.33 p. m. | 2.55 p. m. | .10 | .19 | .46 | .54 | .62 | .66 | | | | | | | | | |
| July 2 | 4.45 a. m. | 6.15 a. m. | .59 | 5.04 a. m. | 5.15 a. m. | .05 | .14 | .46 | .52 | | | | | | | | | | | |
| July 24 | D.N.,a. m. | D.N.,a. m. | .71 | 1.53 a. m. | 2.23 a. m. | .11 | .14 | .19 | .22 | .26 | .45 | .56 | | | | | | | | |
| Aug. 7 | D.N.,a. m. | 4.45 p. m. | 1.47 | 4.56 a. m. | 5.14 a. m. | .29 | .18 | .28 | .44 | .57 | | | | | | | | | | |
| Aug. 23 | 7.07 a. m. | 4.40 p. m. | 1.86 | 2.21 p. m. | 3.01 p. m. | .84 | .12 | .17 | .24 | .33 | .44 | .53 | .68 | .75 | | | | | | |
| Aug. 26 | 3.07 p. m. | 4.46 p. m. | .85 | 3.11 p. m. | 3.29 p. m. | .01 | .34 | .50 | .76 | .80 | | | | | | | | | | |
| Sept. 13 | 6.15 a. m. | 7.08 a. m. | 1.38 | 6.20 a. m. | 6.51 a. m. | .01 | .37 | .76 | .84 | 1.03 | 1.20 | 1.31 | 1.32 | | | | | | | |
| Sept. 14 | 2.56 p. m. | 4.00 p. m. | .74 | 3.12 p. m. | 3.46 p. m. | .05 | .08 | .20 | .30 | .45 | .50 | .56 | .64 | | | | | | | |
| Sept. 19–20 | 4.45 p. m. | 11.25 p. m. | 4.51 | 11.48 a. m. | 12.26 p. m. | 2.09 | .07 | .10 | .18 | .46 | .67 | .78 | .96 | 1.04 | | | | | | |
| Oct. 19 | 12.05 p. m. | 8.45 p. m. | 2.21 | 12.53 p. m. | 1.26 p. m. | .06 | .08 | .19 | .44 | .65 | .90 | 1.18 | 1.26 | | | | | | | |
| Dec. 1 | 2.15 p. m. | 7.30 p. m. | 1.07 | 4.58 p. m. | 5.22 p. m. | .15 | .05 | .19 | .50 | .70 | .78 | | | | | | | | | |
| Dec. 11–12 | 11.39 a. m. | 12.50 p. m. | 3.69 | 2.13 a. m. | 3.36 a. m. | .92 | .13 | .23 | .37 | .37 | .38 | .39 | .44 | .49 | .57 | .74 | .97 | 1.36 | 1.51 | |

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1909, ETC.—Continued.

| Station and date. | Total duration. | | Total amount of precipitation (inches). | Excessive rate. | | Amount before excessive rate began (inches). | Accumulated amounts of precipitation (in inches) during periods of time indicated. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | From— | To— | | Began— | Ended— | | 5 min. | 10 min. | 15 min. | 20 min. | 25 min. | 30 min. | 35 min. | 40 min. | 45 min. | 60 min. | 80 min. | 100 min. | 120 min. |
| WEST GULF STATES. | | | | | | | | | | | | | | | | | | | |
| Shreveport, La.: | | | | | | | | | | | | | | | | | | | |
| Feb. 14 | 2.15 a. m. | 12.40 p. m. | 1.75 | 2.15 a. m. | 2.45 a. m. | 0.00 | 0.14 | 0.18 | 0.33 | 0.40 | 0.47 | 0.53 | .... | .... | .... | .... | .... | .... | .... |
| Apr. 30 | 7.45 a. m. | 8.50 a. m. | .60 | 7.56 a. m. | 8.08 a. m. | .02 | 15 | .37 | .48 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| May 18 | 12.45 p. m. | 3.10 p. m. | .98 | 12.59 p. m. | 1.11 p. m. | .03 | 20 | .56 | .67 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| May 25 | 5.40 p. m. | 9.00 p. m. | 1.00 | 6.19 p. m. | 6.53 p. m. | .01 | .05 | .13 | .30 | .48 | .73 | .81 | 0.85 | .... | .... | .... | .... | .... | .... |
| June 11 | 6.35 p. m. | 9.00 p. m. | .81 | 6.46 p. m. | 7.23 p. m. | .02 | .07 | .25 | .37 | .46 | .52 | .59 | .65 | 0.70 | .... | .... | .... | .... | .... |
| Aug. 7 | 4.50 p. m. | 7.15 p. m. | 1.02 | 5.10 p. m. | 5.38 p. m. | .03 | .20 | .45 | .62 | .77 | .86 | .92 | .... | .... | .... | .... | .... | .... | .... |
| Aug. 24 | 2.20 p. m. | 4.40 p. m. | 1.23 | 2.36 p. m. | 3.09 p. m. | .03 | .13 | .41 | .79 | .90 | .98 | 1.07 | 1.13 | .... | .... | .... | .... | .... | .... |
| Dec. 11-12 | 1.50 p. m. | 5.45 a. m. | 2.36 | 2.34 p. m. | 3.04 p. m. | .02 | .20 | .43 | .66 | .76 | .82 | .90 | .... | .... | .... | .... | .... | .... | .... |
| Bentonville, Ark.: | | | | | | | | | | | | | | | | | | | |
| Feb. 13 | 6.05 p. m. | 8.20 p. m. | .74 | 6.54 p. m. | 7.06 p. m | .01 | .19 | .54 | .58 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| May 23-24 | 9.20 p. m. | 3.55 a. m. | 1.16 | 1.23 a. m. | 1.38 a. m. | .23 | .41 | .52 | .58 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| May 24 | 4.20 p. m. | 11.15 p. m. | 1.64 | 7.04 p. m. | 7.42 p. m. | .18 | .10 | .27 | .32 | .35 | .58 | 1.08 | 1.26 | 1.33 | .... | .... | .... | .... | .... |
| May 29 | 8.55 p. m. | 11.20 p. m. | 1.02 | 9.39 p. m. | 10.13 p. m. | .02 | .21 | .43 | .64 | .68 | .76 | .83 | .89 | .... | .... | .... | .... | .... | .... |
| June 2 | 1.10 p. m. | 2.05 p. m. | .75 | 1.16 p. m. | 1.33 p. m. | .02 | .28 | .50 | .66 | .69 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| June 30 | 12.35 p. m. | 3.40 p. m. | 1.22 | 1.13 p. m. | 1.38 p. m. | .02 | .16 | .46 | .78 | .94 | 1.04 | .... | .... | .... | .... | .... | .... | .... | .... |
| July 15 | 12.35 a. m. | 3.20 a. m. | 1.21 | 12.42 a. m. | 1.07 a. m. | .02 | .33 | .62 | .72 | .77 | .82 | .... | .... | .... | .... | .... | .... | .... | .... |
| Fort Smith, Ark.: | | | | | | | | | | | | | | | | | | | |
| Feb. 22-23 | 2.50 p. m. | D.N.,a. m. | 1.39 | 6.27 p. m. | 6.41 p. m. | .74 | .06 | .32 | .47 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Apr. 20-21 | 8.46 p. m. | D.N.,a. m. | 1.54 | 10.03 p. m. | 10.35 p. m. | .13 | .11 | .35 | .45 | .49 | .67 | .74 | .78 | .... | .... | .... | .... | .... | .... |
| May 18 | 8.23 a. m. | 12.49 p. m. | 1.19 | 8.32 a. m. | 9.10 a. m. | .01 | .09 | .20 | .35 | .40 | .42 | .49 | .54 | .60 | .... | .... | .... | .... | .... |
| May 29-30 | 9.58 p. m. | D.N.,a. m. | 1.26 | 10.30 p. m. | 11.00 p. m. | .03 | .05 | .11 | .21 | .36 | .77 | .99 | .... | .... | .... | .... | .... | .... | .... |
| June 11 | 1.46 p. m. | 2.14 p. m. | .75 | 1.54 p. m. | 2.14 p. m. | .01 | .08 | .20 | .44 | .66 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| July 14-15 | 5.40 p. m. | 7.14 a. m. | 2.37 | 1.34 a. m. | 2.18 a. m. | .40 | .18 | .42 | .63 | .83 | 1.04 | 1.15 | 1.22 | 1.27 | 1.36 | .... | .... | .... | .... |
| Oct. 8 | 3.11 p. m. | 11.30 p. m. | 1.80 | 5.40 p. m. | 6.21 p. m. | .10 | .14 | .22 | .40 | .67 | .79 | .89 | .93 | 1.02 | 1.05 | .... | .... | .... | .... |
| Nov. 7-8 | 10.33 p. m. | 6.19 a. m. | 1.42 | 12.36 a. m. | 1.01 a. m. | .19 | .22 | .47 | .61 | .73 | .81 | .... | .... | .... | .... | .... | .... | .... | .... |
| Little Rock, Ark.: | | | | | | | | | | | | | | | | | | | |
| Feb. 13-14 | 7.10 p. m. | 2.45 p. m. | 1.79 | 1.43 a. m. | 2.03 a. m. | .26 | .16 | .34 | .47 | .56 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Feb. 23 | D.N.,a. m. | 8.00 a. m. | 2.07 | 3.00 a. m. | 4.00 a. m. | .51 | .14 | .29 | .42 | .53 | .62 | .70 | .74 | .74 | .81 | 0.92 | 1.09 | .... | .... |
| Apr. 12 | 11.10 a. m. | 5.20 p. m. | 1.77 | 1.43 p. m. | 2.28 p. m. | .23 | .08 | .25 | .36 | .48 | .62 | .74 | .84 | .91 | .97 | .... | .... | .... | .... |
| Apr. 29 | 8.25 p. m. | 9.30 p. m. | .62 | 8.51 p. m. | 9.00 p. m. | .03 | .34 | .55 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Aug. 12 | 8.45 a. m. | 9.40 a. m. | .92 | 8.51 a. m. | 9.21 a. m. | .02 | .09 | .18 | .40 | .56 | .74 | .85 | .... | .... | .... | .... | .... | .... | .... |
| Nov. 22 | 9.40 a. m. | 10.45 a. m. | .58 | 10.12 a. m. | 10.26 a. m. | .05 | .17 | .44 | .51 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Corpus Christi, Tex.: | | | | | | | | | | | | | | | | | | | |
| May 21 | 5.30 a. m. | 10.00 a. m. | 1.02 | 6.55 a. m. | 7.12 a. m. | .13 | .06 | .22 | .53 | .56 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| May 26 | 7.36 a. m. | 10.20 a. m. | 1.20 | 7.54 a. m. | 8.35 a. m. | .09 | .17 | .38 | .46 | .50 | .54 | .77 | .93 | 1.07 | 1.10 | .... | .... | .... | .... |
| Aug. 9 | 8.48 a. m. | 9.32 a. m. | .74 | 8.58 a. m. | 9.18 a. m. | .02 | .11 | .42 | .65 | .71 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Aug. 22 | 11.26 a. m. | 12.21 p. m. | .54 | 11.43 a. m. | 12.13 p. m. | .02 | .06 | .16 | .18 | .25 | .40 | .51 | .... | .... | .... | .... | .... | .... | .... |
| Sept. 14 | 5.34 a. m. | 7.13 a. m. | .59 | 5.45 a. m. | 6.05 a. m. | .01 | .12 | .26 | .40 | .45 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Fort Worth, Tex.: | | | | | | | | | | | | | | | | | | | |
| Apr. 5 | 8.10 p. m. | 9.45 p. m. | .93 | 9.13 p. m. | 9.28 p. m. | .21 | .28 | .62 | .72 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| June 18 | 1.40 p. m. | 3.45 p. m. | 1.84 | 2.05 p. m. | 2.40 p. m. | .02 | .41 | .75 | 1.12 | 1.41 | 1.61 | 1.72 | 1.80 | .... | .... | .... | .... | .... | .... |
| Aug. 13 | 9.16 a. m. | 10.20 a. m. | .88 | 9.25 a. m. | 9.54 a. m. | .01 | .20 | .37 | .48 | .57 | .67 | .77 | .... | .... | .... | .... | .... | .... | .... |
| Sept. 5 | 9.05 p. m. | 11.50 p. m. | 1.43 | 9.20 p. m. | 10.09 p. m. | .06 | .10 | .18 | .36 | .55 | .61 | .72 | .99 | 1.16 | 1.23 | 1.30 | .... | .... | .... |
| Nov. 13 | 2.35 p. m. | 6.50 p. m. | 2.33 | 2.44 p. m. | 3.56 p. m. | .02 | .24 | .51 | .59 | .69 | .87 | .87 | .87 | .87 | .87 | .87 | 1.37 | 2.17 | .... |
| Galveston, Tex.: | | | | | | | | | | | | | | | | | | | |
| Mar. 12 | 6.20 a. m. | 8.50 a. m. | .95 | 6.39 a. m. | 7.22 a. m. | .07 | .10 | .12 | .17 | .25 | .30 | .39 | .46 | .68 | .74 | .... | .... | .... | .... |
| Apr. 7-8 | 4.45 p. m. | D.N.,a. m. | 2.55 | 6.39 p. m. | 7.15 p. m. | .01 | .07 | .21 | .29 | .52 | .75 | .91 | .99 | 1.00 | .... | .... | .... | .... | .... |
| May 15 | 7.05 p. m. | 11.55 p. m. | 1.74 | 10.52 p. m. | 11.27 p. m. | .39 | .17 | .37 | .67 | 1.07 | 1.19 | 1.24 | 1.29 | .... | .... | .... | .... | .... | .... |
| June 13 | 7.50 p. m. | 9.05 p. m. | 1.09 | 8.36 p. m. | 9.03 p. m. | .04 | .06 | .27 | .61 | .90 | 1.03 | 1.05 | .... | .... | .... | .... | .... | .... | .... |
| June 14 | 4.22 p. m. | 5.04 p. m. | .74 | 4.25 p. m. | 4.47 p. m. | T. | .29 | .39 | .42 | .72 | .74 | .... | .... | .... | .... | .... | .... | .... | .... |
| Sept. 15 | 9.06 a. m. | 11.40 a. m. | .92 | 9.12 a. m. | 9.38 a. m. | .01 | .15 | .33 | .44 | .55 | .64 | .69 | .... | .... | .... | .... | .... | .... | .... |
| Nov. 8 | 7.40 p. m. | 10.20 p. m. | .66 | 7.53 p. m. | 8.13 p. m. | .02 | .21 | .30 | .40 | .47 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Palestine, Tex.: | | | | | | | | | | | | | | | | | | | |
| Feb. 9 | 2.30 a. m. | 3.18 a. m. | .83 | 2.33 a. m. | 2.48 a. m. | T. | 1.30 | 1.60 | 1.76 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Apr. 12 | 9.54 a. m. | 11.40 a. m. | 1.23 | 10.19 a. m. | 11.15 a. m. | .04 | .24 | .39 | .47 | .54 | .62 | .67 | .78 | .89 | .98 | 1.04 | 1.14 | .... | .... |
| June 30 | 2.20 p. m. | 3.28 p. m. | 2.00 | 2.23 p. m. | 3.02 p. m. | .01 | .39 | .66 | 1.24 | 1.56 | 1.78 | 1.86 | 1.91 | 1.97 | .... | .... | .... | .... | .... |
| Sept. 15 | 8.52 p. m. | 11.09 p. m. | 1.06 | 9.10 p. m. | 9.40 p. m. | .10 | .19 | .48 | .68 | .78 | .86 | .92 | .... | .... | .... | .... | .... | .... | .... |
| San Antonio, Tex.: | | | | | | | | | | | | | | | | | | | |
| Mar. 12 | 7.15 a. m. | 11.00 a. m. | .53 | 9.14 a. m. | 9.30 a. m. | .08 | .14 | .28 | .42 | .43 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| June 22 | 1.05 p. m. | 2.40 p. m. | .91 | 1.27 p. m. | 1.47 p. m. | .14 | .22 | .48 | .64 | .73 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| July 22 | 12.45 a. m. | 11.05 a. m. | 2.82 | 3.00 a. m. | 3.55 a. m. | .62 | .05 | .10 | .15 | .22 | .33 | .52 | .75 | .83 | .90 | .94 | 1.04 | .... | .... |
| Aug. 25 | 12.25 p. m. | 1.40 p. m. | .50 | 12.57 p. m. | 1.18 p. m. | .02 | .10 | .17 | .32 | .44 | .47 | .... | .... | .... | .... | .... | .... | .... | .... |
| Taylor, Tex.: | | | | | | | | | | | | | | | | | | | |
| Mar. 19 | 2.44 p. m. | 4.23 p. m. | .57 | 2.55 p. m. | 3.06 p. m. | .01 | .29 | .41 | .44 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Apr. 26-27 | 9.25 p. m. | D.N.,a. m. | .94 | 10.33 p. m. | 10.58 p. m. | .13 | .20 | .40 | .52 | .58 | .67 | .... | .... | .... | .... | .... | .... | .... | .... |
| May 6 | 6.30 p. m. | 7.25 p. m. | .65 | 6.52 p. m. | 7.10 p. m. | .01 | .26 | .44 | .55 | .62 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| June 13 | 6.30 p. m. | 7.15 p. m. | .61 | 6.44 p. m. | 6.54 p. m. | .01 | .25 | .45 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Aug. 20 | 3.03 p. m. | 7.30 p. m. | 1.95 | 3.06 p. m. | 3.44 p. m. | .02 | .21 | .62 | 1.08 | 1.34 | 1.55 | 1.69 | 1.77 | 1.81 | .... | .... | .... | .... | .... |
| Oct. 18-19 | 5.30 p. m. | D.N.,a. m. | 2.38 | 8.50 p. m. | 10.00 p. m. | .41 | .05 | .13 | .31 | .41 | .48 | .56 | .66 | .77 | .89 | .96 | 1.05 | 1.24 | .... |
| OHIO VALLEY AND TENNESSEE. | | | | | | | | | | | | | | | | | | | |
| Chattanooga, Tenn.: | | | | | | | | | | | | | | | | | | | |
| Mar. 9 | 10.53 a. m. | 7.55 p. m. | 2.18 | 1.58 p. m. | 2.49 p. m. | .56 | .07 | .13 | .18 | .27 | .31 | .33 | .36 | .40 | .53 | .96 | 1.01 | .... | .... |
| Apr. 30 | 5.55 a. m. | 9.16 a. m. | 1.30 | 7.00 a. m. | 8.20 a. m. | .07 | .12 | .13 | .18 | .24 | .33 | .46 | .46 | .46 | .47 | .61 | .76 | 1.09 | .... |
| July 5 | 5.57 p. m. | 7.26 p. m. | .54 | 6.04 p. m. | 6.32 p. m. | .01 | .22 | .29 | .34 | .41 | .48 | .51 | .... | .... | .... | .... | .... | .... | .... |
| Sept. 22 | 11.30 a. m. | 3.55 p. m. | 3.90 | 12.23 p. m. | 1.33 p. m. | .04 | .13 | .26 | .28 | .31 | .52 | .84 | 1.00 | 1.15 | 1.53 | 1.74 | 2.40 | 2.83 | .... |
| Oct. 14 | 5.55 p. m. | 7.42 p. m. | .89 | 6.43 p. m. | 7.17 p. m. | .09 | .07 | .14 | .32 | .46 | .63 | .72 | .78 | .... | .... | .... | .... | .... | .... |
| Dec. 6-7 | 4.25 p. m. | 6.03 a. m. | 1.88 | 3.32 a. m. | 4.02 a. m. | 1.08 | .07 | .15 | .37 | .57 | .69 | .74 | .... | .... | .... | .... | .... | .... | .... |

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1909, ETC.—Continued.

| Station and date. | Total duration. | | Total amount of precipitation (inches). | Excessive rate. | | Amount before excessive rate began (inches). | Accumulated amounts of precipitation (in inches) during periods of time indicated. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | From— | To— | | Began— | Ended— | | 5 min. | 10 min. | 15 min. | 20 min. | 25 min. | 30 min. | 35 min. | 40 min. | 45 min. | 50 min. | 60 min. | 80 min. | 100 min. | 120 min. |
| OHIO VALLEY AND TENNESSEE—con. | | | | | | | | | | | | | | | | | | | | |
| Knoxville, Tenn.: | | | | | | | | | | | | | | | | | | | | |
| Apr. 6–7 | 10.20 p. m. | D.N.,a. m. | 1.29 | 1.32 a. m. | 1.50 a. m. | 0.40 | 0.08 | 0.36 | 0.50 | 0.57 | | | | | | | | | | |
| Apr. 30 | 2.30 p. m. | 4.20 p. m. | .53 | 3.54 p. m. | 4.05 p. m. | .02 | .30 | .48 | .50 | | | | | | | | | | | |
| May 20 | 1.50 p. m. | D.N.,p. m. | 1.12 | 1.59 p. m. | 2.39 p. m. | .02 | .05 | .16 | .29 | .39 | 0.58 | 0.67 | 0.73 | 0.79 | | | | | | |
| June 9 | D.N.,a. m. | 5.30 a. m. | .84 | 12.14 a. m. | 12.35 a. m. | .03 | .16 | .37 | .51 | .63 | .66 | | | | | | | | | |
| June 30 | 1.29 p. m. | 3.50 p. m. | .82 | 1.36 p. m. | 1.51 p. m. | .01 | .16 | .30 | .48 | .63 | .68 | | | | | | | | | |
| July 13 | 3.05 p. m. | 8.30 p. m. | 2.30 | 3.13 p. m. | 4.03 p. m. | .02 | .06 | .17 | .50 | .86 | 1.23 | 1.38 | 1.47 | 1.63 | 1.73 | 1.88 | | | | |
| Aug. 16 | 7.30 a. m. | 9.09 a. m. | 1.04 | 7.44 a. m. | 8.08 a. m. | .02 | .29 | .54 | .74 | .85 | .90 | | | | | | | | | |
| Sept. 22 | D.N.,a. m. | 6.45 a. m. | 1.79 | 4.20 a. m. | 5.14 a. m. | .53 | .16 | .37 | .52 | .56 | .59 | .67 | .74 | .92 | 1.03 | 1.06 | 1.16 | | | |
| Memphis, Tenn.: | | | | | | | | | | | | | | | | | | | | |
| Feb. 23 | 7.35 a. m. | 5.35 p. m. | 2.02 | 11.53 a. m. | 12.25 p. m. | .96 | .18 | .28 | .34 | .44 | .59 | .86 | .95 | | | | | | | |
| | | | | 2.57 p. m. | 3.26 p. m. | .11 | .32 | .48 | .57 | .61 | .66 | .82 | | | | | | | | |
| Apr. 6 | 1.30 p. m. | 7.15 p. m. | 2.72 | 4.12 p. m. | 4.33 p. m. | .95 | .17 | .33 | .53 | .71 | | | | | | | | | | |
| | | | | 5.52 p. m. | 6.33 p. m. | 1.76 | .15 | .30 | .42 | .46 | .51 | .66 | .75 | .89 | .92 | | | | | |
| May 25–26 | 10.10 p. m. | D.N.,a. m. | .83 | 10.19 p. m. | 10.39 p. m. | .01 | .13 | .36 | .52 | .61 | | | | | | | | | | |
| Aug. 6 | 7.50 a. m. | 9.20 a. m. | .70 | 8.24 a. m. | 9.00 a. m. | .07 | .09 | .18 | .27 | .40 | .49 | .52 | .59 | .63 | | | | | | |
| Sept. 4–5 | 3.33 p. m. | D.N.,a. m. | 1.38 | 4.00 p. m. | 4.29 p. m. | .04 | .11 | .16 | .44 | .51 | .61 | .72 | | | | | | | | |
| Nov. 8 | 8.25 a. m. | 11.50 a. m. | 1.10 | 9.18 a. m. | 9.35 a. m. | .12 | .23 | .48 | .59 | .61 | | | | | | | | | | |
| Nashville, Tenn.: | | | | | | | | | | | | | | | | | | | | |
| Feb. 23 | 9.20 a. m. | 11.55 p. m. | 3.69 | 1.03 p. m. | 1.45 p. m. | .59 | .31 | .35 | .43 | .55 | .66 | .72 | .80 | .87 | .90 | | | | | |
| May 9 | 4.05 p. m. | 8.17 p. m. | 1.08 | 4.15 p. m. | 4.33 p. m. | .02 | .12 | .49 | .76 | .83 | | | | | | | | | | |
| May 15 | 5.40 p. m. | 8.45 p. m. | 1.19 | 5.46 p. m. | 6.36 p. m. | .02 | .35 | .61 | .62 | .62 | .62 | .70 | .81 | .87 | .96 | 1.03 | | | | |
| June 9 | 5.05 p. m. | 6.00 p. m. | .80 | 5.23 p. m. | 5.42 p. m. | .04 | .41 | .63 | .68 | .73 | | | | | | | | | | |
| June 12 | 3.19 p. m. | 3.55 p. m. | 1.00 | 3.19 p. m. | 3.45 p. m. | .00 | .22 | .53 | .72 | .88 | .98 | .99 | | | | | | | | |
| June 12 | 6.50 p. m. | 8.18 p. m. | .98 | 7.31 p. m. | 8.10 p. m. | .04 | .23 | .45 | .55 | .59 | .63 | .66 | .80 | .93 | | | | | | |
| July 7 | 12.27 p. m. | 4.30 p. m. | 3.03 | 12.32 p. m. | 1.04 p. m. | .01 | .40 | .81 | 1.06 | 1.08 | 1.26 | 1.34 | 1.37 | | | | | | | |
| | | | | 1.51 p. m. | 2.21 p. m. | 1.41 | .12 | .57 | .96 | 1.16 | 1.29 | 1.36 | | | | | | | | |
| Sept. 9–10 | 11.00 p. m. | 4.00 a. m. | 1.32 | 12.02 a. m. | 12.17 a. m. | .19 | .40 | .68 | .75 | | | | | | | | | | | |
| Nov. 16 | 2.38 p. m. | 5.40 p. m. | 1.06 | 4.34 p. m. | 5.00 p. m. | .10 | .40 | .48 | .65 | .76 | .87 | .90 | | | | | | | | |
| Lexington, Ky.: | | | | | | | | | | | | | | | | | | | | |
| Apr. 29–30 | 10.45 p. m. | 9.40 a. m. | 2.47 | 2.53 a. m. | 3.15 a. m. | .39 | .09 | .17 | .46 | .63 | .68 | | | | | | | | | |
| June 14 | 2.45 p. m. | 3.28 p. m. | .61 | 2.51 p. m. | 3.09 p. m. | .01 | .15 | .34 | .48 | .54 | | | | | | | | | | |
| July 6 | 3.00 a. m. | 11.30 a. m. | 2.03 | 6.05 a. m. | 6.25 a. m. | .37 | .13 | .26 | .55 | .68 | | | | | | | | | | |
| | | | | 8.28 p. m. | 8.43 p. m. | .01 | .34 | .44 | .56 | | | | | | | | | | | |
| Sept. 9–10 | 8.26 p. m. | 12.30 a. m. | 2.14 | 9.08 p. m. | 10.22 p. m. | .62 | .05 | .18 | .30 | .46 | .60 | .62 | .63 | .63 | .66 | .70 | .85 | 1.15 | | |
| Sept. 15 | 3.05 p. m. | 5.30 p. m. | 1.35 | 3.16 p. m. | 4.01 p. m. | .01 | .07 | .19 | .36 | .51 | .62 | .62 | .62 | .91 | 1.00 | | | | | |
| Louisville, Ky.: | | | | | | | | | | | | | | | | | | | | |
| Feb. 23–24 | 10.20 p. m. | D.N.,a. m. | 5.02 | [1] 4.23 a. m. | [1] 4.58 a. m. | .24 | .08 | .28 | .47 | .63 | .75 | .91 | 1.00 | | | | | | | |
| July 6 | D.N.,a. m. | 10.30 a. m. | 1.33 | 8.32 a. m. | 8.57 a. m. | .47 | .12 | .27 | .53 | .64 | .71 | | | | | | | | | |
| July 7 | D.N.,a. m. | 11.40 a. m. | 2.34 | 2.55 a. m. | 3.55 a. m. | .06 | .08 | .11 | .25 | .28 | .28 | .29 | .34 | .40 | .60 | .87 | .97 | | | |
| July 30 | 6.40 p. m. | 8.15 p. m. | 1.25 | 6.51 p. m. | 7.37 p. m. | .01 | .19 | .46 | .69 | .73 | .74 | .82 | .87 | .94 | 1.09 | 1.11 | | | | |
| Sept. 9 | 8.15 p. m. | D.N.,p. m. | 1.52 | 8.37 p. m. | 8.58 p. m. | .09 | .26 | .51 | .67 | .78 | .84 | | | | | | | | | |
| Evansville, Ind.: | | | | | | | | | | | | | | | | | | | | |
| Apr. 29–30 | 10.45 p. m. | 3.00 a. m. | 1.07 | 11.00 p. m. | 11.30 p. m. | .01 | .13 | .39 | .50 | .67 | .79 | .89 | | | | | | | | |
| June 12 | 9.40 p. m. | D.N.,p. m. | .86 | 10.01 p. m. | 10.27 p. m. | .02 | .21 | .27 | .35 | .53 | .61 | .66 | | | | | | | | |
| Sept. 9 | 6.45 p. m. | 9.30 p. m. | .90 | 6.50 p. m. | 7.08 p. m. | .01 | .14 | .35 | .62 | .73 | | | | | | | | | | |
| Indianapolis, Ind.: | | | | | | | | | | | | | | | | | | | | |
| June 12–13 | 3.45 p. m. | D.N.,a. m. | 1.06 | 4.29 p. m. | 4.53 p. m. | .24 | .07 | .19 | .35 | .45 | .51 | | | | | | | | | |
| July 11 | 1.55 p. m. | 2.32 p. m. | .51 | 2.12 p. m. | 2.24 p. m. | .01 | .24 | .41 | .50 | | | | | | | | | | | |
| July 12 | 12.55 p. m. | 2.55 p. m. | 1.51 | 1.12 p. m. | 2.21 p. m. | .01 | .24 | .49 | .67 | .73 | .79 | .83 | .83 | .88 | 1.11 | 1.21 | 1.37 | 1.50 | | |
| Nov. 7 | 10.28 a. m. | 2.20 p. m. | .75 | 11.00 a. m. | 11.16 a. m. | .03 | .29 | .39 | .45 | | | | | | | | | | | |
| Cincinnati, Ohio: | | | | | | | | | | | | | | | | | | | | |
| June 10 | 5.10 p. m. | 6.18 p. m. | .72 | 5.23 p. m. | 5.35 p. m. | .04 | .30 | .62 | .63 | | | | | | | | | | | |
| June 17 | 3.05 p. m. | 4.12 p. m. | .48 | 3.07 p. m. | 3.18 p. m. | .01 | .26 | .41 | .45 | | | | | | | | | | | |
| Aug. 4 | 10.48 a. m. | 12.45 p. m. | .88 | 11.15 a. m. | 11.30 a. m. | .25 | .16 | .35 | .43 | | | | | | | | | | | |
| Columbus, Ohio: | | | | | | | | | | | | | | | | | | | | |
| June 8 | 8.14 p. m. | D.N.,p. m. | .67 | 8.18 p. m. | 8.38 p. m. | .01 | .12 | .20 | .43 | .51 | | | | | | | | | | |
| July 12 | 4.46 p. m. | 7.37 p. m. | .73 | 4.48 p. m. | 5.08 p. m. | .01 | .15 | .38 | .54 | .65 | | | | | | | | | | |
| Aug. 15 | 5.30 a. m. | 8.20 a. m. | .69 | 6.41 a. m. | 6.53 a. m. | .09 | .15 | .38 | .50 | | | | | | | | | | | |
| Aug. 15 | 10.33 a. m. | 11.25 a. m. | .83 | 10.34 a. m. | 11.15 a. m. | .01 | .14 | .21 | .46 | .57 | .59 | .62 | .65 | .78 | .82 | | | | | |
| Sept. 3–4 | 10.47 p. m. | D.N.,a. m. | .63 | 11.23 p. m. | 11.35 p. m. | .09 | .26 | .46 | .54 | | | | | | | | | | | |
| Pittsburg, Pa.: | | | | | | | | | | | | | | | | | | | | |
| June 4 | 5.30 p. m. | 6.45 p. m. | 1.25 | 6.00 p. m. | 6.24 p. m. | .07 | .15 | .31 | .55 | 1.10 | 1.17 | | | | | | | | | |
| June 17 | 5.00 p. m. | 6.20 p. m. | .49 | 5.03 p. m. | 5.15 p. m. | .01 | .20 | .37 | .42 | | | | | | | | | | | |
| Aug. 16 | 4.52 p. m. | 5.20 p. m. | .49 | 4.56 p. m. | 5.12 p. m. | .01 | .13 | .30 | .46 | .48 | | | | | | | | | | |
| Parkersburg, W. Va.: | | | | | | | | | | | | | | | | | | | | |
| July 12 | 12.25 a. m. | 7.07 a. m. | 1.17 | 6.35 a. m. | 6.52 a. m. | .37 | .15 | .45 | .74 | .79 | | | | | | | | | | |
| July 29 | 4.12 p. m. | 9.10 p. m. | 1.03 | 5.09 p. m. | 5.19 p. m. | .05 | .28 | .63 | | | | | | | | | | | | |
| Aug. 14–15 | 6.07 p. m. | 10.16 a. m. | 3.55 | 5.58 a. m. | 7.18 a. m. | 1.10 | .21 | .24 | .35 | .39 | .44 | .51 | .70 | .84 | .88 | .96 | 1.06 | 2.13 | | |
| Sept. 15 | 5.05 p. m. | 5.27 p. m. | .56 | 5.12 p. m. | 5.19 p. m. | .01 | .45 | .54 | | | | | | | | | | | | |
| Elkins, W. Va.: | | | | | | | | | | | | | | | | | | | | |
| May 8 | 4.25 p. m. | 5.20 p. m. | .63 | 4.38 p. m. | 4.54 p. m. | .10 | .11 | .33 | .50 | .52 | | | | | | | | | | |
| June 1 | 2.25 p. m. | 3.40 p. m. | 1.19 | 2.32 p. m. | 2.42 p. m. | .01 | .40 | .69 | | | | | | | | | | | | |
| June 27–28 | 7.40 p. m. | 12.45 a. m. | 1.18 | 8.58 p. m. | 9.18 p. m. | .36 | .16 | .36 | .47 | .55 | | | | | | | | | | |
| Sept. 10 | 3.15 a. m. | 6.05 a. m. | 1.24 | 4.15 a. m. | 4.46 a. m. | .50 | .05 | .12 | .21 | .42 | .59 | .69 | .71 | | | | | | | |

[1] Twenty-third.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1909, ETC.—Continued.

| Station and date. | Total duration. | | Total amount of precipitation (inches). | Excessive rate. | | Amount before excessive rate began (inches). | Accumulated amounts of precipitation (in inches) during periods of time indicated. | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | From— | To— | | Began— | Ended— | | 5 min. | 10 min. | 15 min. | 20 min. | 25 min. | 30 min. | 35 min. | 40 min. | 45 min. | 50 min. | 60 min. | 80 min. | 100 min. | 120 min. |
| **LOWER LAKE REGION.** | | | | | | | | | | | | | | | | | | | | |
| **Buffalo, N. Y.:** | | | | | | | | | | | | | | | | | | | | |
| May 15 | 7.28 p. m. | 11.58 p. m. | 0.72 | 9.08 p. m. | 9.22 p. m. | 0.17 | 0.19 | 0.29 | 0.36 | | | | | | | | | | | |
| Aug. 16 | 12.40 a. m. | 2.10 a. m. | .67 | 1.14 a. m. | 1.39 a. m. | .12 | .05 | .19 | .38 | 0.49 | 0.54 | | | | | | | | | |
| **Canton, N. Y.:** | | | | | | | | | | | | | | | | | | | | |
| Sept. 23 | 6.15 p. m. | 11.15 p. m. | .62 | 6.33 p. m. | 6.48 p. m. | .03 | .22 | .37 | .43 | | | | | | | | | | | |
| **Rochester, N. Y.:** | | | | | | | | | | | | | | | | | | | | |
| Sept. 23 | 2.25 p. m. | 8.05 p. m. | .75 | 2.59 p. m. | 3.14 p. m. | .02 | .17 | .32 | .37 | | | | | | | | | | | |
| Oct. 11 | 4.45 p. m. | 9.40 p. m. | 1.21 | 6.13 p. m. | 6.46 p. m. | .13 | .10 | .21 | .27 | .31 | .48 | 0.59 | 0.66 | | | | | | | |
| **Erie, Pa.:** | | | | | | | | | | | | | | | | | | | | |
| July 30 | 1.05 a. m. | D. N., a. m. | .37 | 1.31 a. m. | 1.43 a. m. | .02 | .13 | .31 | .35 | | | | | | | | | | | |
| Aug. 26 | D. N., a. m. | 6.15 a. m. | .90 | 4.07 a. m. | 4.44 a. m. | .18 | .08 | .13 | .25 | .28 | .31 | .39 | .53 | 0.62 | | | | | | |
| Sept. 23 | 11.55 a. m. | 1.45 p. m. | .75 | 12.12 p. m. | 12.29 p. m. | .04 | .34 | .40 | .46 | .51 | | | | | | | | | | |
| **Cleveland, Ohio:** | | | | | | | | | | | | | | | | | | | | |
| Apr. 29 | 3.48 p. m. | 8.00 p. m. | .75 | 5.24 p. m. | 5.38 p. m. | .20 | .05 | .30 | .49 | | | | | | | | | | | |
| July 12 | 4.21 p. m. | 8.02 p. m. | .37 | 4.31 p. m. | 4.41 p. m. | .03 | .31 | .70 | | | | | | | | | | | | |
| Sept. 15 | 2.09 p. m. | 2.50 p. m. | .48 | 2.09 p. m. | 2.22 p. m. | .00 | .27 | .36 | .46 | | | | | | | | | | | |
| **Sandusky, Ohio:** | | | | | | | | | | | | | | | | | | | | |
| May 26-27 | 7.20 p. m. | D. N., a. m. | 1.32 | 10.41 p. m. | 10.58 p. m. | .12 | .32 | .44 | .60 | .67 | | | | | | | | | | |
| June 1 | 12.21 p. m. | 12.51 p. m. | .69 | 12.23 p. m. | 12.42 p. m. | .02 | .07 | .17 | .51 | .66 | | | | | | | | | | |
| June 4 | 1.42 p. m. | 2.27 p. m. | .73 | 1.45 p. m. | 2.24 p. m. | .01 | .10 | .20 | .30 | .42 | .51 | .60 | .67 | .72 | | | | | | |
| July 15 | 3.43 p. m. | 6.38 p. m. | 1.75 | 4.30 p. m. | 5.05 p. m. | .25 | .07 | .20 | .39 | .78 | .97 | 1.13 | 1.34 | | | | | | | |
| July 29 | 1.00 a. m. | 6.30 a. m. | 3.35 | 3.11 a. m. | 3.41 a. m. | .08 | .09 | .11 | .23 | .44 | .94 | 1.05 | | | | | | | | |
| | | | | 4.21 a. m. | 5.30 a. m. | 1.30 | .08 | .18 | .20 | .34 | .61 | .83 | 1.03 | 1.10 | 1.26 | 1.44 | 1.58 | 1.80 | | |
| **Toledo, Ohio:** | | | | | | | | | | | | | | | | | | | | |
| May 6 | 5.44 p. m. | 10.15 p. m. | 1.26 | 6.21 p. m. | 7.00 p. m. | .21 | .07 | .14 | .23 | .39 | .55 | .66 | .69 | .76 | | | | | | |
| July 13 | 12.20 p. m. | 1.20 p. m. | 1.52 | 12.26 p. m. | 1.01 p. m. | .03 | .08 | .15 | .64 | 1.05 | 1.22 | 1.37 | 1.43 | | | | | | | |
| Aug. 14-15 | 11.10 p. m. | 12.45 a. m. | .98 | 12.14 a. m. | 12.27 a. m. | .17 | .29 | .65 | .75 | | | | | | | | | | | |
| Sept. 20 | 5.09 p. m. | 7.00 p. m. | 1.63 | 5.11 p. m. | 5.25 p. m. | .01 | .20 | .47 | .57 | | | | | | | | | | | |
| | | | | 6.30 p. m. | 6.42 p. m. | .95 | .30 | .59 | .68 | | | | | | | | | | | |
| **Detroit, Mich.:** | | | | | | | | | | | | | | | | | | | | |
| June 26 | D. N., a. m. | D. N., a. m. | 2.10 | 1.23 a. m. | 3.03 a. m. | .01 | .19 | .37 | .49 | .52 | .53 | .59 | .66 | .74 | .78 | .90 | 1.08 | 1.50 | 1.95 | |
| June 27 | 2.25 p. m. | 3.10 p. m. | .66 | 2.41 p. m. | 3.01 p. m. | .02 | .06 | .25 | .47 | .64 | | | | | | | | | | |
| July 28 | 9.50 p. m. | 11.45 p. m. | 1.03 | 10.52 p. m. | 11.09 p. m. | .13 | .14 | .44 | .79 | .84 | | | | | | | | | | |
| July 29 | D. N., a. m. | 5.55 a. m. | 3.53 | 2.14 a. m. | 3.27 a. m. | .10 | .23 | .24 | .36 | .56 | .70 | 1.03 | 1.31 | 1.45 | 1.57 | 1.73 | 2.11 | 2.63 | | |
| Aug. 16 | 9.28 a. m. | 10.11 a. m. | 1.12 | 9.30 a. m. | 9.59 a. m. | .01 | .13 | .44 | .85 | .87 | .93 | 1.10 | | | | | | | | |
| **UPPER LAKE REGION.** | | | | | | | | | | | | | | | | | | | | |
| **Alpena, Mich.:** | | | | | | | | | | | | | | | | | | | | |
| July 10 | 3.12 p. m. | 3.35 p. m. | .63 | 3.17 p. m. | 3.29 p. m. | .03 | .28 | .58 | .60 | | | | | | | | | | | |
| **Escanaba, Mich.:** | | | | | | | | | | | | | | | | | | | | |
| July 14 | 4.15 p. m. | 5.55 p. m. | 1.29 | 4.28 p. m. | 5.34 p. m. | .01 | .17 | .41 | .54 | .71 | .75 | .78 | .81 | .83 | .91 | .92 | 1.09 | 1.27 | | |
| July 22 | 4.25 p. m. | D. N., p. m. | 1.47 | 4.31 p. m. | 5.37 p. m. | .01 | .05 | .13 | .19 | .28 | .35 | .39 | .48 | .59 | .72 | .81 | .94 | 1.08 | | |
| **Grand Haven, Mich.:** | | | | | | | | | | | | | | | | | | | | |
| May 26 | 4.05 p. m. | 5.40 p. m. | .81 | 4.32 p. m. | 5.02 p. m. | .03 | .10 | .32 | .47 | .56 | .62 | .67 | | | | | | | | |
| Aug. 1 | 1.40 p. m. | 2.25 p. m. | .94 | 1.49 p. m. | 2.08 p. m. | .01 | .30 | .59 | .81 | .89 | | | | | | | | | | |
| Aug. 28 | D. N., a. m. | D. N., a. m. | .86 | 12.49 a. m. | 1.19 a. m. | .03 | .13 | .28 | .45 | .66 | .74 | .81 | | | | | | | | |
| **Grand Rapids, Mich.:** | | | | | | | | | | | | | | | | | | | | |
| May 31-June 1 | 8.12 p. m. | 3.15 a. m. | 1.33 | 8.48 p. m. | 9.38 p. m. | .15 | .08 | .13 | .20 | .38 | .47 | .55 | .68 | .74 | .77 | .84 | | | | |
| June 26 | 7.35 p. m. | 9.50 p. m. | 2.78 | 8.37 p. m. | 9.25 p. m. | .57 | .36 | .84 | 1.10 | 1.31 | 1.51 | 1.71 | 1.86 | 2.01 | 2.11 | 2.19 | | | | |
| Aug. 1 | 11.34 a. m. | 12.48 p. m. | 1.69 | 11.39 a. m. | 12.12 p. m. | .01 | .18 | .46 | .73 | .98 | 1.22 | 1.51 | 1.64 | | | | | | | |
| Aug. 28 | 1.40 a. m. | 2.10 a. m. | .76 | 1.43 a. m. | 2.00 a. m. | .01 | .32 | .57 | .71 | .74 | | | | | | | | | | |
| **Houghton, Mich.:** | | | | | | | | | | | | | | | | | | | | |
| July 22 | 5.30 a. m. | 1.50 p. m. | 1.30 | 8.17 a. m. | 8.50 a. m. | .20 | .07 | .12 | .22 | .45 | .65 | .73 | .78 | | | | | | | |
| July 29 | 12.25 a. m. | D. N., a. m. | .95 | 12.28 a. m. | 1.23 a. m. | T. | .07 | .15 | .23 | .29 | .35 | .40 | .56 | .61 | .66 | .71 | .81 | | | |
| **Marquette, Mich.:** | | | | | | | | | | | | | | | | | | | | |
| July 11-12 | 2.58 p. m. | 6.15 a. m. | 1.16 | 6.26 p. m. | 6.41 p. m. | .10 | .06 | .36 | .56 | | | | | | | | | | | |
| **Port Huron, Mich.:** | | | | | | | | | | | | | | | | | | | | |
| Aug. 9 | 5.20 a. m. | 6.45 a. m. | .45 | 5.58 a. m. | 6.12 a. m. | .07 | .12 | .30 | .38 | | | | | | | | | | | |
| Aug. 16 | 7.50 a. m. | 10.15 a. m. | .67 | 8.06 a. m. | 8.28 a. m. | .03 | .13 | .29 | .39 | .50 | .54 | | | | | | | | | |
| **Sault Ste. Marie, Mich.:** | | | | | | | | | | | | | | | | | | | | |
| July 11-12 | 7.01 p. m. | D. N., a. m. | .88 | 11.20 p. m. | 11.30 p. m. | .35 | .14 | .32 | | | | | | | | | | | | |
| Aug. 28 | 3.35 a. m. | 7.30 a. m. | 1.73 | 4.47 a. m. | 6.03 a. m. | .12 | .09 | .24 | .27 | .31 | .36 | .44 | .56 | .66 | .80 | .96 | 1.16 | 1.35 | | |
| **Chicago, Ill.:** | | | | | | | | | | | | | | | | | | | | |
| June 22 | 6.23 p. m. | 7.02 p. m. | .80 | 6.24 p. m. | 6.39 p. m. | .01 | .48 | .68 | .75 | | | | | | | | | | | |
| July 2 | 7.32 p. m. | 8.58 p. m. | .87 | 7.54 p. m. | 8.12 p. m. | .02 | .16 | .35 | .59 | .75 | | | | | | | | | | |
| Aug. 14 | 3.00 a. m. | 8.57 a. m. | 3.44 | 5.08 a. m. | 5.43 a. m. | .25 | .21 | .40 | .78 | .94 | 1.08 | 1.18 | 1.33 | | | | | | | |
| | | | | 6.58 a. m. | 8.00 a. m. | 1.79 | .09 | .21 | .50 | .92 | 1.11 | 1.20 | 1.26 | 1.29 | 1.38 | 1.41 | 1.53 | 1.64 | | |
| Aug. 27 | 12.57 p. m. | 2.50 p. m. | 1.22 | 1.08 p. m. | 1.48 p. m. | .19 | .11 | .28 | .51 | .61 | .64 | .78 | .92 | .99 | | | | | | |

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1909, ETC.—Continued.

| Station and date. | Total duration. | | Total amount of precipitation (inches). | Excessive rate. | | Amount before excessive rate began (inches). | Accumulated amounts of precipitation (in inches) during periods of time indicated. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | From— | To— | | Began— | Ended— | | 5 min. | 10 min. | 15 min. | 20 min. | 25 min. | 30 min. | 35 min. | 40 min. | 45 min. | 50 min. | 60 min. | 80 min. | 100 min. | 120 min. |
| **UPPER LAKE REGION—continued.** | | | | | | | | | | | | | | | | | | | | |
| Milwaukee, Wis.: | | | | | | | | | | | | | | | | | | | | |
| Apr. 6 | 5.25 p. m. | 6.40 p. m. | .44 | 5.37 p. m. | 5.47 p. m. | 0.01 | 0.14 | 0.31 | | | | | | | | | | | | |
| June 22 | 6.40 p. m. | 7.05 p. m. | .47 | 6.44 p. m. | 6.54 p. m. | .01 | .32 | .45 | | | | | | | | | | | | |
| July 2 | 5.24 p. m. | 6.35 p. m. | 1.50 | 5.30 p. m. | 6.08 p. m. | .01 | .24 | .52 | 0.90 | 1.12 | 1.26 | 1.35 | 1.43 | 1.47 | | | | | | |
| Aug. 15 | 5.40 p. m. | 7.05 p. m. | .43 | 5.50 p. m. | 6.00 p. m. | .05 | .18 | .32 | | | | | | | | | | | | |
| Green Bay, Wis.: | | | | | | | | | | | | | | | | | | | | |
| May 6 | 6.03 a. m. | 9.15 a. m. | .94 | 8.27 a. m. | 8.51 a. m. | .24 | .15 | .34 | .40 | .52 | .70 | | | | | | | | | |
| June 6 | 2.30 a. m. | 12.35 p. m. | 1.43 | 11.00 a. m. | 11.38 a. m. | .76 | .07 | .20 | .31 | .40 | .48 | .54 | .58 | .64 | | | | | | |
| June 13 | 9.15 a. m. | 9.55 a. m. | .82 | 9.17 a. m. | 9.37 a. m. | .01 | .33 | .64 | .69 | .79 | | | | | | | | | | |
| Sept. 13–14 | 7.30 p. m. | D.N., a. m. | .83 | 7.55 p. m. | 8.13 p. m. | .02 | .17 | .25 | .54 | .65 | | | | | | | | | | |
| Duluth, Minn.: | | | | | | | | | | | | | | | | | | | | |
| July 20–21 | 9.32 p. m. | 7.22 a. m. | 2.68 | 2.45 a. m. | 4.14 a. m. | .54 | .32 | .45 | .50 | .50 | .65 | .71 | .75 | .78 | 0.80 | 0.88 | 1.09 | 1.46 | 1.74 | |
| July 21–22 | 9.23 p. m. | 8.30 a. m. | 3.97 | 9.27 p. m. | 10.35 p. m. | .01 | .05 | .14 | .31 | .53 | .87 | 1.28 | 1.59 | 1.74 | 1.85 | 1.94 | 2.26 | 2.51 | | |
| July 31 | 8.46 p. m. | 11.58 p. m. | 1.00 | 9.49 p. m. | 10.11 p. m. | .03 | .12 | .29 | .40 | .46 | .51 | | | | | | | | | |
| Aug. 10–11 | 3.15 p. m. | 5.00 p. m. | 2.27 | 6.11 p. m. | 6.39 p. m. | .26 | .12 | .17 | .21 | .41 | .57 | .61 | | | | | | | | |
| Aug. 14 | 4.30 p. m. | 6.20 p. m. | .65 | 4.53 p. m. | 5.07 p. m. | .09 | .14 | .41 | .52 | | | | | | | | | | | |
| Sept. 20–21 | 9.05 p. m. | 9.00 a. m. | 1.71 | 9.54 p. m. | 11.05 p. m. | .06 | .07 | .17 | .21 | .28 | .35 | .37 | .39 | .43 | .53 | .56 | .88 | 1.10 | | |
| **NORTH DAKOTA.** | | | | | | | | | | | | | | | | | | | | |
| Moorhead, Minn.: | | | | | | | | | | | | | | | | | | | | |
| May 29 | 4.15 a. m. | 6.40 a. m. | .82 | 4.25 a. m. | 5.05 a. m. | .03 | .05 | .10 | .15 | .24 | .36 | .49 | .54 | .63 | | | | | | |
| May 29 | 4.50 p. m. | 6.35 p. m. | 1.68 | 5.35 p. m. | 6.20 p. m. | .05 | .05 | .16 | .44 | .75 | 1.00 | 1.27 | 1.38 | 1.44 | 1.62 | | | | | |
| June 15–16 | 10.50 p. m. | 6.35 a. m. | 1.50 | 2.05 a. m. | 2.30 a. m. | .43 | .12 | .28 | .38 | .48 | .54 | | | | | | | | | |
| June 22 | 1.15 p. m. | 2.05 p. m. | .50 | 1.17 p. m. | 1.34 p. m. | .01 | .11 | .33 | .44 | .46 | | | | | | | | | | |
| July 20–21 | 9.15 p. m. | 7.10 a. m. | 1.11 | 9.17 p. m. | 9.42 p. m. | .01 | .13 | .26 | .35 | .61 | .81 | | | | | | | | | |
| Aug. 10 | 5.25 a. m. | 7.25 a. m. | .77 | 5.30 a. m. | 5.57 a. m. | .01 | .09 | .19 | .29 | .43 | .52 | .59 | | | | | | | | |
| Aug. 23 | 8.55 p. m. | 9.35 p. m. | .84 | 9.01 p. m. | 9.19 p. m. | .02 | .30 | .46 | .73 | .83 | | | | | | | | | | |
| Bismarck, N. Dak.: | | | | | | | | | | | | | | | | | | | | |
| July 27 | 10.15 p. m. | D.N., p. m. | .58 | 10.21 p. m. | 10.37 p. m. | .01 | .27 | .45 | .53 | .56 | | | | | | | | | | |
| Aug. 9–10 | 8.15 p. m. | D.N., a. m. | 3.60 | 10.53 p. m. | 11.41 p. m. | .04 | .14 | .47 | .92 | 1.20 | 1.47 | 1.89 | 2.40 | 2.73 | 2.94 | 2.99 | | | | |
| Devils Lake, N. Dak.: | | | | | | | | | | | | | | | | | | | | |
| May 29 | 3.35 a. m. | 9.05 a. m. | 2.41 | 4.29 a. m. | 5.24 a. m. | .48 | .17 | .24 | .31 | .37 | .47 | .53 | .60 | .64 | .66 | .84 | .94 | | | |
| Aug. 6 | 6.50 a. m. | 7.45 a. m. | 1.10 | 6.58 a. m. | 7.40 a. m. | .01 | .28 | .42 | .54 | 1.03 | 1.77 | 1.87 | 1.97 | 1.06 | 1.07 | | | | | |
| Aug. 23 | 8.20 p. m. | 9.35 p. m. | .84 | 8.53 p. m. | 9.09 p. m. | .10 | .16 | .53 | .69 | .72 | | | | | | | | | | |
| Sept. 12 | 6.10 p. m. | 8.05 p. m. | .75 | 6.45 p. m. | 7.11 p. m. | .09 | .07 | .20 | .36 | .47 | .58 | .61 | | | | | | | | |
| Williston, N. Dak.: | | | | | | | | | | | | | | | | | | | | |
| June 5 | 8.05 p. m. | 9.05 p. m. | .70 | 8.12 p. m. | 8.22 p. m. | .02 | .32 | .59 | | | | | | | | | | | | |
| June 12 | 3.25 p. m. | 4.20 p. m. | .88 | 3.40 p. m. | 3.55 p. m. | .09 | .31 | .60 | .77 | | | | | | | | | | | |
| June 20 | 4.00 a. m. | 6.10 a. m. | .82 | 4.14 a. m. | 4.35 a. m. | .01 | .10 | .33 | .59 | .71 | .74 | | | | | | | | | |
| **UPPER MISSISSIPPI VALLEY.** | | | | | | | | | | | | | | | | | | | | |
| Minneapolis, Minn.: | | | | | | | | | | | | | | | | | | | | |
| July 11 | 6.40 a. m. | 11.00 a. m. | 3.01 | 7.14 a. m. | 8.04 a. m. | .06 | .07 | .13 | .23 | .41 | .52 | .60 | .72 | .78 | .81 | .89 | | | | |
| | | | | 8.04 a. m. | 8.54 a. m. | | .91 | .93 | .93 | .93 | .94 | 1.02 | 1.04 | 1.04 | 1.04 | 1.08 | | | | |
| | | | | 8.54 a. m. | 9.44 a. m. | | 1.23 | 1.43 | 1.51 | 1.54 | 1.55 | 1.56 | 1.68 | 1.73 | 1.82 | 2.00 | | | | |
| | | | | 9.44 a. m. | 10.09 a. m. | | 2.11 | 2.22 | 2.27 | 2.52 | 2.63 | | | | | | | | | |
| July 21 | 5.00 a. m. | 8.55 a. m. | 1.17 | 7.53 a. m. | 8.18 a. m. | .64 | .08 | .11 | .36 | .39 | .49 | | | | | | | | | |
| St. Paul, Minn.: | | | | | | | | | | | | | | | | | | | | |
| June 22 | 12.40 p. m. | 1.46 p. m. | .98 | 12.55 p. m. | 1.35 p. m. | .08 | .08 | .20 | .27 | .35 | .50 | .61 | .80 | .87 | | | | | | |
| July 11 | 6.12 p. m. | 8.40 p. m. | 1.04 | 7.12 p. m. | 7.29 p. m. | .13 | .15 | .27 | .34 | .40 | | | | | | | | | | |
| Aug. 13 | 4.33 p. m. | 6.45 p. m. | .96 | 5.53 p. m. | 6.28 p. m. | .08 | .05 | .10 | .21 | .35 | .54 | .71 | .84 | | | | | | | |
| Sept. 21–22 | 4.10 p. m. | 12.45 a. m. | 1.24 | 4.12 p. m. | 4.40 p. m. | .01 | .18 | .36 | .49 | .57 | .66 | .71 | | | | | | | | |
| La Crosse, Wis.: | | | | | | | | | | | | | | | | | | | | |
| Aug. 11 | 6.24 a. m. | 12.08 p. m. | 2.99 | 8.01 a. m. | 9.41 a. m. | .20 | .12 | .37 | .60 | .88 | 1.07 | 1.22 | 1.28 | 1.32 | 1.38 | 1.43 | 1.59 | 1.80 | 2.49 | |
| Aug. 13–14 | 5.58 p. m. | 4.10 a. m. | 3.87 | 1.52 a. m. | 3.00 a. m. | 1.49 | .24 | .45 | .49 | .68 | .94 | 1.15 | 1.39 | 1.59 | 1.76 | 1.82 | 1.92 | 2.20 | [2] | |
| Sept. 12 | 8.26 a. m. | 10.17 a. m. | .62 | 8.27 a. m. | 8.56 a. m. | T. | .15 | .34 | .38 | .43 | .50 | .56 | | | | | | | | |
| Madison, Wis.: | | | | | | | | | | | | | | | | | | | | |
| May 14–15 | 9.00 p. m. | D. N., a. m. | 1.44 | 11.36 p. m. | 11.48 p. m. | .12 | .19 | .30 | .34 | | | | | | | | | | | |
| Aug. 9 | 2.20 a. m. | 6.00 a. m. | .78 | 2.29 a. m. | 2.51 a. m. | .01 | .08 | .17 | .31 | .42 | .45 | | | | | | | | | |
| Charles City, Iowa: | | | | | | | | | | | | | | | | | | | | |
| June 26 | 3.30 p. m. | 5.05 p. m. | 1.06 | 3.38 p. m. | 4.05 p. m. | .01 | .08 | .31 | .66 | .86 | .94 | .98 | | | | | | | | |
| Aug. 9 | 7.18 a. m. | 11.30 a. m. | 1.90 | 8.47 a. m. | 9.57 a. m. | .62 | .09 | .27 | .32 | .35 | .39 | .40 | .41 | .47 | .51 | .56 | .83 | 1.17 | | |
| Aug. 12–13 | 11.20 p. m. | 3.00 a. m. | 1.39 | 11.24 p. m. | 11.54 p. m. | .01 | .16 | .36 | .51 | .80 | .99 | 1.07 | | | | | | | | |
| Aug. 15 | 3.43 p. m. | 4.31 p. m. | 1.02 | 3.52 p. m. | 4.28 p. m. | .01 | .15 | .51 | .70 | .70 | .70 | .71 | .98 | 1.01 | | | | | | |
| Oct. 31 | 6.10 p. m. | 7.10 p. m. | .60 | 6.17 p. m. | 6.33 p. m. | .02 | .20 | .42 | .53 | .56 | | | | | | | | | | |
| Davenport, Iowa: | | | | | | | | | | | | | | | | | | | | |
| Apr. 18 | 2.20 p. m. | 7.40 p. m. | 1.91 | 4.12 p. m. | 5.12 p. m. | .20 | .11 | .16 | .19 | .28 | .46 | .68 | .69 | .74 | .80 | .98 | 1.38 | | | |
| June 24 | D.N., a.m. | 6.57 a. m. | .92 | 5.04 a. m. | 5.24 a. m. | .02 | .24 | .54 | .73 | .85 | | | | | | | | | | |
| July 10 | 4.10 p. m. | 6.10 p. m. | 1.27 | 5.03 p. m. | 5.42 p. m. | .40 | .13 | .34 | .47 | .48 | .53 | .63 | .76 | .85 | | | | | | |
| July 10 | 8.25 p. m. | D. N., p.m. | .71 | 9.01 p. m. | 9.30 p. m. | .03 | .14 | .31 | .45 | .55 | .61 | | | | | | | | | |
| Aug. 27 | 6.20 a. m. | 9.45 a. m. | .99 | 8.53 a. m. | 9.28 a. m. | .23 | .09 | .24 | .30 | .41 | .48 | .57 | .75 | | | | | | | |
| Nov. 7 | 5.35 p. m. | 9.00 p. m. | .92 | 5.43 p. m. | 6.13 p. m. | .01 | .09 | .16 | .23 | .41 | .56 | .64 | | | | | | | | |

[1] Estimated.

[2] Partly estimated.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1909, ETC.—Continued.

| Station and date. | Total duration. | | Total amount of precipitation (inches). | Excessive rate. | | Amount before excessive rate began (inches). | Accumulated amounts of precipitation (in inches) during periods of time indicated. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | From— | To— | | Began— | Ended— | | 5 min. | 10 min. | 15 min. | 20 min. | 25 min. | 30 min. | 35 min. | 40 min. | 45 min. | 50 min. | 60 min. | 80 min. | 100 min. | 120 min. |
| **UPPER MISSISSIPPI VALLEY—con.** | | | | | | | | | | | | | | | | | | | | |
| **Des Moines, Iowa:** | | | | | | | | | | | | | | | | | | | | |
| June 23 | 5.10 p. m. | 5.38 p. m. | 0.69 | 5.15 p. m. | 5.31 p. m. | 0.01 | 0.15 | 0.48 | 0.63 | 0.66 | | | | | | | | | | |
| June 26–27 | 7.57 p. m. | D. N., a. m. | 1.26 | 8.29 p. m. | 9.04 p. m. | .04 | .13 | .31 | .38 | .40 | 0.43 | 0.57 | 0.66 | | | | | | | |
| June 29 | 4.02 p. m. | 5.10 p. m. | .72 | 4.33 p. m. | 4.47 p. m. | .12 | .28 | .54 | .60 | | | | | | | | | | | |
| July 5–6 | 10.30 p. m. | 12.50 p. m. | 1.67 | 1.34 a. m. | 2.09 a. m. | .25 | .09 | .19 | .29 | .42 | .55 | .69 | .77 | | | | | | | |
| July 30–31 | 10.25 p. m. | D. N., a. m. | .67 | 10.43 p. m. | 11.04 p. m. | .06 | .13 | .32 | .41 | .47 | .50 | | | | | | | | | |
| **Dubuque, Iowa:** | | | | | | | | | | | | | | | | | | | | |
| Apr. 17–18 | 8.45 p. m. | D. N., a. m. | 1.38 | 9.37 p. m. | 10.14 p. m. | .02 | .23 | .31 | .34 | .38 | .43 | .52 | .58 | 0.60 | | | | | | |
| May 14–15 | 8.40 p. m. | 6.35 a. m. | 1.24 | 10.19 p. m. | 10.41 p. m. | .19 | .12 | .16 | .45 | .73 | .78 | | | | | | | | | |
| June 22 | 1.28 p. m. | 2.02 p. m. | .90 | 1.39 p. m. | 2.00 p. m. | .05 | .08 | .21 | .50 | .84 | .85 | | | | | | | | | |
| June 24 | 12.30 a. m. | D. N., a. m. | 1.54 | 12.44 a. m. | 1.44 a. m. | .05 | .26 | .42 | .56 | .72 | .90 | 1.04 | 1.13 | 1.20 | 1.28 | 1.35 | 1.46 | | | |
| June 24–25 | D. N., p.m. | D. N., a. m. | 1.07 | 11.55 p. m. | 12.25 a. m. | .09 | .15 | .25 | .33 | .39 | .59 | .71 | | | | | | | | |
| Sept. 13–14 | 7.17 p. m. | D. N., a. m. | 2.91 | 7.39 p. m. | 8.45 p. m. | .01 | .05 | .22 | .60 | .75 | .81 | .95 | 1.19 | 1.45 | 1.71 | 1.87 | 1.99 | 2.16 | | |
| **Keokuk, Iowa:** | | | | | | | | | | | | | | | | | | | | |
| Apr. 18 | 5.40 p. m. | 9.10 p. m. | .63 | 5.54 p. m. | 6.11 p. m. | T. | .15 | .42 | .51 | .55 | | | | | | | | | | |
| June 7 | 9.10 p. m. | 11.55 p. m. | 2.50 | 9.14 p. m. | 11.20 p. m. | .01 | 1.06 | 1.16 | 1.36 | 1.55 | 1.74 | 1.85 | 1.92 | 1.07 | 1.16 | ? | 1.35 | ? | ? | 2.26 |
| June 9 | 4.30 a. m. | 8.30 a. m. | 1.20 | 6.09 a. m. | 6.52 a. m. | .13 | .08 | .12 | .23 | .47 | .52 | .56 | .75 | .88 | .93 | | | | | |
| July 5–6 | 3.45 a. m. | 8.30 a. m. | 3.08 | 12.42 a. m. | 1.45 a. m. | 1.57 | .08 | .14 | .23 | .39 | .43 | .48 | .53 | .54 | .59 | .79 | 1.19 | 1.25 | | |
| Sept. 13–14 | 9.45 p. m. | 3.30 a. m. | 1.62 | 10.27 p. m. | 11.01 p. m. | .01 | .16 | .26 | .39 | .52 | .63 | .76 | .81 | | | | | | | |
| **Cairo, Ill.:** | | | | | | | | | | | | | | | | | | | | |
| Feb. 22–23 | 7.59 p. m. | 9.40 a. m. | 2.94 | 12.48 a. m. | 1.18 a. m. | .05 | .09 | .28 | .41 | .44 | .50 | .57 | | | | | | | | |
| Mar. 5–6 | 8.26 p. m. | D. N., a. m. | 2.31 | 8.37 p. m. | 10.17 p. m. | .01 | .08 | .35 | .63 | .84 | 1.05 | 1.23 | 1.34 | 1.40 | 1.41 | 1.43 | 1.54 | 1.92 | 2.07 | |
| Apr. 19 | 3.25 a. m. | D. N., a. m. | .67 | 3.43 a. m. | 4.03 a. m. | .02 | .08 | .21 | .34 | .49 | | | | | | | | | | |
| Sept. 22 | 7.50 p. m. | 10.00 p. m. | .81 | 8.07 p. m. | 8.40 p. m. | .03 | .11 | .17 | .23 | .27 | .45 | .63 | .72 | | | | | | | |
| **La Salle, Ill.:** | | | | | | | | | | | | | | | | | | | | |
| Apr. 18 | 5.10 p. m. | 10.00 p. m. | 1.25 | 6.47 p. m. | 7.00 p. m. | .09 | .42 | .67 | .73 | | | | | | | | | | | |
| July 29 | 12.28 p. m. | 1.17 p. m. | .33 | 12.36 p. m. | 1.01 p. m. | T. | .17 | .19 | .20 | .40 | .51 | | | | | | | | | |
| Aug. 1 | 5.15 p. m. | 5.48 p. m. | .70 | 5.19 p. m. | 5.40 p. m. | T. | .20 | .42 | .53 | .66 | .68 | | | | | | | | | |
| Aug. 12–13 | 8.44 p. m. | 3.30 a. m. | 1.48 | 10.04 p. m. | 10.22 p. m. | .47 | .21 | .23 | .35 | .50 | | | | | | | | | | |
| Sept. 14 | 1.47 p. m. | D. N., p.m. | 1.35 | 3.12 p. m. | 3.32 p. m. | .02 | .15 | .29 | .53 | .59 | | | | | | | | | | |
| **Peoria, Ill.:** | | | | | | | | | | | | | | | | | | | | |
| Apr. 5–6 | 9.05 p. m. | D. N., a. m. | 1.29 | 10.06 p. m. | 10.40 p. m. | .26 | .08 | .17 | .53 | .70 | .75 | .80 | .85 | | | | | | | |
| May 25 | 6.05 a. m. | 5.15 p. m. | 1.46 | 10.37 a. m. | 11.22 a. m. | .59 | .10 | .21 | .27 | .32 | .41 | .50 | .56 | .66 | .72 | | | | | |
| June 24 | 6.04 p. m. | 7.40 p. m. | 1.23 | 6.16 p. m. | 7.03 p. m. | .06 | .16 | .30 | .34 | .40 | .60 | .74 | .85 | .94 | 1.06 | 1.14 | | | | |
| Nov. 7–8 | 6.15 p. m. | 1.15 a. m. | 1.46 | 6.42 p. m. | 7.09 p. m. | .01 | .21 | .41 | .48 | .57 | .65 | .68 | | | | | | | | |
| **Springfield, Ill.:** | | | | | | | | | | | | | | | | | | | | |
| Apr. 6 | 3.19 p. m. | 4.48 p. m. | .71 | 3.29 p. m. | 3.51 p. m. | .02 | .06 | .35 | .45 | .59 | .64 | | | | | | | | | |
| May 30 | 2.50 a. m. | 7.25 a. m. | .81 | 2.51 a. m. | 3.08 a. m. | .01 | .12 | .22 | .54 | .58 | | | | | | | | | | |
| June 29 | 3.16 p. m. | 5.25 p. m. | 1.21 | 3.39 p. m. | 3.54 p. m. | .01 | .43 | .70 | .83 | | | | | | | | | | | |
| July 6 | 10.55 p. m. | D. N., p. m. | .87 | 11.02 p. m. | 11.26 p. m. | .03 | .13 | .24 | .35 | .60 | .81 | | | | | | | | | |
| July 11 | D. N., a. m. | 11.24 a. m. | 1.00 | 10.20 a. m. | 10.45 a. m. | .01 | .15 | .45 | .73 | .86 | .95 | | | | | | | | | |
| Aug. 25 | 5.10 p. m. | 6.50 p. m. | .80 | 5.18 p. m. | 5.55 p. m. | .04 | .08 | .21 | .50 | .52 | .53 | .61 | .71 | .75 | | | | | | |
| Sept. 14 | 4.00 p. m | 9.50 p. m. | 1.51 | 4.29 p. m. | 5.30 p. m. | .01 | .17 | .27 | .31 | .31 | .31 | .31 | .31 | .48 | .72 | .84 | 1.11 | 1.19 | | |
| **Hannibal, Mo.:** | | | | | | | | | | | | | | | | | | | | |
| Apr. 18 | 5.15 p. m. | 9.40 p. m. | 2.17 | 6.30 p. m. | 7.48 p. m. | .05 | .14 | .26 | .40 | .56 | .79 | .98 | 1.21 | 1.29 | 1.33 | 1.44 | 1.69 | 2.02 | | |
| May 29–30 | 11.55 p. m. | D. N., a. m. | 2.04 | 12.12 a. m. | 12.59 a. m. | .01 | .28 | .52 | .81 | 1.10 | 1.15 | 1.21 | 1.31 | 1.47 | 1.60 | 1.65 | | | | |
| June 26 | 4.56 p. m. | 5.35 p. m. | .57 | 4.59 p. m. | 5.16 p. m. | .01 | .12 | .31 | .46 | .51 | | | | | | | | | | |
| July 6–7 | 8.31 p. m. | 3.55 p. m. | 1.89 | 8.35 p. m. | 8.43 p. m. | .01 | .41 | .55 | | | | | | | | | | | | |
| **St. Louis, Mo.:** | | | | | | | | | | | | | | | | | | | | |
| Apr. 6 | 3.00 p. m. | 4.40 p. m. | .73 | 3.24 p. m. | 3.53 p. m. | .01 | .25 | .33 | .38 | .53 | .57 | .63 | | | | | | | | |
| June 4 | 2.10 p. m. | 3.00 p. m. | .49 | 2.13 p. m. | 2.24 p. m. | .01 | .35 | .47 | .49 | | | | | | | | | | | |
| July 10–11 | 6.15 p. m. | 4.15 a. m. | 2.20 | 8.32 p. m. | 9.52 p. m. | .14 | .08 | .15 | .22 | .36 | .49 | .61 | .65 | .69 | .83 | .94 | 1.28 | 1.66 | | |
| Sept. 9 | 3.47 p. m. | 4.50 p. m. | .69 | 4.00 p. m. | 4.16 p. m. | .01 | .14 | .29 | .51 | .53 | | | | | | | | | | |
| **MISSOURI VALLEY.** | | | | | | | | | | | | | | | | | | | | |
| **Columbia, Mo.:** | | | | | | | | | | | | | | | | | | | | |
| Apr. 6 | 12.02 p. m. | 1.13 p. m. | .60 | 12.16 p. m. | 12.36 p. m. | .01 | .26 | .35 | .40 | .54 | | | | | | | | | | |
| June 16–17 | 8.11 p. m. | D. N., a. m. | 1.11 | 10.50 p. m. | 11.35 p. m. | .10 | .11 | .16 | .37 | .69 | .74 | .77 | .89 | .94 | 1.01 | | | | | |
| June 27 | 5.38 p. m. | 9.51 p. m. | 2.58 | 6.07 p. m. | 6.36 p. m. | .20 | .21 | .34 | .50 | .53 | .71 | .81 | | | | | | | | |
| | | | | 7.05 p. m. | 8.28 p. m. | 1.02 | .23 | .44 | .44 | .44 | .38 | .67 | .67 | .67 | .67 | .68 | .89 | 1.45 | 1.51 | |
| June 29 | 3.39 p. m. | 5.34 p. m. | 2.86 | 3.43 p. m. | 4.48 p. m. | .01 | .14 | .43 | .79 | 1.01 | 1.24 | 1.44 | 1.77 | 1.88 | 2.02 | 2.30 | 2.73 | 2.84 | | |
| July 6 | 9.06 p. m. | 10.18 p. m. | .59 | 9.17 p. m. | 9.37 p. m. | .01 | .23 | .43 | .47 | .57 | | | | | | | | | | |
| **Kansas City, Mo.:** | | | | | | | | | | | | | | | | | | | | |
| Apr. 16 | 10.30 p. m. | D. N., p. m. | .63 | 10.39 p. m. | 10.52 p. m. | .01 | .16 | .45 | .62 | | | | | | | | | | | |
| May 14 | 4.33 p. m. | 6.50 p. m. | 1.38 | 5.14 p. m. | 6.03 p. m. | .09 | .07 | .15 | .24 | .46 | .76 | .85 | .96 | 1.08 | 1.17 | 1.25 | | | | |
| June 9 | 1.30 a. m. | 7.25 a. m. | 1.07 | 4.25 a. m. | 5.10 a. m. | .56 | .21 | .24 | .25 | .34 | .35 | .45 | .60 | .77 | .95 | | | | | |
| June 27 | 5.40 p. m. | 6.50 p. m. | 1.18 | 5.43 p. m. | 6.15 p. m. | .01 | .13 | .19 | .26 | .52 | .74 | .95 | 1.00 | | | | | | | |
| July 29–30 | 11.05 p. m. | 5.45 a. m. | 1.79 | 2.36 a. m. | 3.40 a. m. | .46 | .12 | .27 | .32 | .36 | .49 | .60 | .69 | .72 | .72 | .78 | 1.02 | 1.17 | | |
| Nov. 7 | 11.58 a. m. | 2.10 p. m. | 1.30 | 12.54 p. m. | 1.22 p. m. | .06 | .26 | .50 | .76 | .95 | 1.07 | 1.22 | | | | | | | | |
| **Springfield, Mo.:** | | | | | | | | | | | | | | | | | | | | |
| May 8–9 | 4.45 p. m. | D. N., a. m. | 2.78 | 6.12 p. m. | 6.50 p. m. | .69 | .07 | .17 | .20 | .23 | .33 | .51 | .62 | .70 | | | | | | |
| June 16 | 9.50 p. m. | 11.25 p. m. | 1.10 | 10.26 p. m. | 11.01 p. m. | .13 | .15 | .20 | .23 | .32 | .53 | .74 | .95 | | | | | | | |
| June 22 | 3.25 p. m. | 4.50 p. m. | .88 | 3.31 p. m. | 3.48 p. m. | T. | .23 | .50 | .66 | .70 | | | | | | | | | | |
| June 25 | 11.30 a. m. | 1.05 p. m. | .77 | 12.12 p. m. | 12.47 p. m. | .03 | .22 | .27 | .31 | .53 | .60 | .65 | .71 | | | | | | | |
| | | | | 7.13 p. m. | 7.33 p. m. | .14 | .16 | .28 | .49 | .71 | | | | | | | | | | |
| July 7–8 | 6.23 p. m. | D. N., a. m. | 5.90 | 8.20 p. m. | 10.00 p. m. | .94 | .26 | .34 | .38 | .44 | .51 | .60 | .71 | 1.11 | 1.22 | 1.32 | 1.75 | 2.16 | 2.66 | |
| | | | | 10.30 p. m. | 11.20 p. m. | 3.68 | .12 | .28 | .46 | .74 | 1.01 | 1.06 | 1.08 | 1.20 | 1.43 | 1.58 | | | | |
| July 10 | D. N., a. m. | 10.05 a. m. | 1.37 | 6.04 a. m. | 6.35 a. m. | .04 | .19 | .32 | .42 | .60 | .74 | .87 | .92 | | | | | | | |
| Aug. 28 | 4.45 p. m. | 8.00 p. m. | 1.01 | 6.16 p. m. | 6.49 p. m. | .06 | .23 | .50 | .68 | .73 | .76 | .85 | .91 | | | | | | | |
| Nov. 8 | D. N., a. m. | D. N., a. m. | 1.56 | 1.28 a. m. | 2.52 a. m. | .18 | .08 | .15 | .28 | .35 | .38 | .39 | .43 | .46 | .50 | .55 | .65 | .96 | 1.14 | |
| Nov. 11–12 | D. N., p. m. | 8.50 a. m. | 2.82 | 2.32 a. m. | 4.04 a. m. | .47 | .12 | .26 | .34 | .42 | .49 | .53 | .59 | .61 | .66 | .74 | .89 | 1.17 | 1.32 | |

[1] Estimated.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1909, ETC.—Continued.

| Station and date. | Total duration. | | Total amount of precipitation (inches). | Excessive rate. | | Amount before excessive rate began (inches). | Accumulated amounts of precipitation (in inches) during periods of time indicated. | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | From— | To— | | Began— | Ended— | | 5 min. | 10 min. | 15 min. | 20 min. | 25 min. | 30 min. | 35 min. | 40 min. | 45 min. | 50 min. | 60 min. | 80 min. | 100 min. | 120 min. |
| MISSOURI VALLEY—continued. | | | | | | | | | | | | | | | | | | | | |
| Iola, Kans.: | | | | | | | | | | | | | | | | | | | | |
| Apr. 5 | 4.50 p. m. | 7.55 p. m. | 1.58 | 5.11 p. m. | 5.23 p. m. | 0.03 | 0.33 | 0.59 | 0.68 | | | | | | | | | | | |
| May 14 | 9.12 p. m. | 10.30 p. m. | 1.28 | 9.13 p. m. | 10.05 p. m. | .01 | .13 | .18 | .28 | .47 | .56 | .64 | .83 | .99 | 1.15 | 1.22 | 1.27 | | | |
| May 29 | 6.03 p. m. | 7.10 p. m. | 1.14 | 6.05 p. m. | 7.01 p. m. | .01 | .10 | .14 | .42 | .57 | .75 | .81 | .89 | .94 | 1.00 | 1.04 | 1.12 | | | |
| June 1 | 6.14 p. m. | 8.45 p. m. | 1.93 | 7.35 p. m. | 8.16 p. m. | .32 | .10 | .19 | .58 | .81 | 1.06 | 1.33 | 1.36 | 1.51 | 1.56 | | | | | |
| July 9–10 | 10.40 p. m. | 6.00 a. m. | 1.73 | 1.45 a. m. | 2.05 a. m. | .14 | .26 | .58 | .83 | .93 | | | | | | | | | | |
| Aug. 26 | 7.15 p. m. | 7.55 p. m. | .68 | 7.18 p. m. | 7.43 p. m. | .01 | .11 | .20 | .36 | .49 | .67 | | | | | | | | | |
| Sept. 6 | 6.24 p. m. | 6.50 p. m. | .85 | 6.24 p. m. | 6.33 p. m. | .00 | .50 | .85 | | | | | | | | | | | | |
| Topeka, Kans.: | | | | | | | | | | | | | | | | | | | | |
| May 14 | 2.45 p. m. | 5.30 p. m. | 1.72 | 3.18 p. m. | 4.17 p. m. | .03 | .08 | .17 | .25 | .30 | .33 | .45 | .56 | .99 | 1.21 | 1.41 | 1.61 | | | |
| July 6 | 4.10 p. m. | 6.30 p. m. | 1.47 | 4.35 p. m. | 5.12 p. m. | .02 | .17 | .42 | .71 | .96 | 1.17 | 1.25 | 1.31 | 1.36 | | | | | | |
| July 6–7 | 8.30 p. m. | 11.55 a. m. | 3.64 | 9.17 p. m. | 9.45 p. m. | .45 | .21 | .65 | .96 | 1.19 | 1.40 | 1.45 | | | | | | | | |
| July 11 | 4.55 a. m. | 6.20 a. m. | 1.16 | 5.29 a. m. | 5.46 a. m. | .07 | .41 | .85 | 1.03 | 1.06 | | | | | | | | | | |
| July 31 | 12.18 a. m. | 3.50 a. m. | 1.50 | 1.25 a. m. | 1.53 a. m. | .27 | .26 | .50 | .75 | .94 | 1.08 | 1.14 | | | | | | | | |
| Sept. 6–7 | 8.46 p. m. | 12.10 a. m. | 3.92 | 8.49 p. m. | 10.24 p. m. | .01 | .09 | .36 | .62 | .73 | .92 | 1.10 | 1.36 | 1.48 | 1.67 | 1.85 | 2.14 | 2.71 | 3.20 | |
| Sept. 7 | 2.50 a. m. | 1.40 p. m. | 3.80 | 3.16 a. m. | 4.15 a. m. | .06 | .07 | .14 | .25 | .29 | .32 | .46 | .60 | .65 | .78 | .89 | 1.17 | | | |
| Sept. 7 | 2.50 a. m. | 1.40 p. m. | 3.80 | 5.02 a. m. | 5.52 a. m. | 1.48 | .06 | .16 | .21 | .31 | .36 | .43 | .49 | .51 | .55 | .59 | | | | |
| | | | | 5.52 a. m. | 6.42 a. m. | | .68 | .73 | .83 | .91 | 1.01 | 1.14 | 1.30 | 1.46 | 1.60 | 1.67 | | | | |
| | | | | 6.42 a. m. | 7.15 a. m. | | 1.74 | 1.82 | 1.93 | 2.00 | 2.10 | 2.17 | 2.23 | | | | | | | |
| Sept. 10 | 6.21 p. m. | 6.35 p. m. | .61 | 6.22 p. m. | 6.31 p. m. | .01 | .36 | .60 | | | | | | | | | | | | |
| Lincoln, Nebr.: | | | | | | | | | | | | | | | | | | | | |
| May 14 | 4.15 p. m. | 8.55 p. m. | 2.50 | 6.02 p. m. | 7.02 p. m. | .14 | .08 | .20 | .36 | .46 | .70 | .93 | 1.16 | 1.38 | 1.54 | 1.66 | 1.84 | | | |
| June 8–9 | 11.22 p. m. | 2.15 a. m. | .80 | 12.22 a. m. | 12.32 a. m. | .07 | .29 | .49 | | | | | | | | | | | | |
| July 4–5 | 4.30 p. m. | 7.50 a. m. | 2.89 | 7.57 p. m. | 9.15 p. m. | .63 | .05 | .18 | .35 | .42 | .45 | .57 | .61 | .63 | .66 | .76 | .97 | 1.23 | | |
| Aug. 3 | 1.30 a. m. | 6.30 a. m. | 1.10 | 4.16 a. m. | 4.37 a. m. | .42 | .14 | .22 | .37 | .52 | .56 | | | | | | | | | |
| Omaha, Nebr.: | | | | | | | | | | | | | | | | | | | | |
| June 21–22 | 11.25 p. m. | 5.30 a. m. | 1.79 | 11.40 p. m. | 11.56 p. m. | .01 | .10 | .43 | .59 | .62 | | | | | | | | | | |
| | | | | 12.53 a. m. | 1.12 a. m. | .73 | .09 | .31 | .56 | .62 | | | | | | | | | | |
| June 28 | 3.10 a. m. | 6.20 a. m. | .82 | 4.17 a. m. | 4.41 a. m. | .03 | .09 | .35 | .63 | .69 | .74 | | | | | | | | | |
| July 5–6 | 7.48 p. m. | 5.45 a. m. | 1.66 | 9.29 p. m. | 10.20 p. m. | .22 | .11 | .33 | .53 | .58 | .66 | .77 | .90 | .99 | 1.02 | 1.14 | 1.17 | | | |
| Sept. 12–13 | 7.08 p. m. | D.N., a. m. | 1.43 | 7.13 p. m. | 7.25 p. m. | .01 | .32 | .56 | .61 | | | | | | | | | | | |
| Valentine, Nebr.: | | | | | | | | | | | | | | | | | | | | |
| July 27 | 4.25 p. m. | 5.34 p. m. | .80 | 4.41 p. m. | 5.02 p. m. | .02 | .25 | .55 | .69 | .75 | .77 | | | | | | | | | |
| Aug. 12 | 3.14 p. m. | 4.40 p. m. | 3.21 | 3.14 p. m. | 4.22 p. m. | .00 | .17 | .34 | .47 | .65 | .79 | 1.19 | 1.58 | 2.02 | 2.39 | 2.64 | 3.01 | 3.21 | | |
| Aug. 22–23 | 10.02 p. m. | 1.01 a. m. | .81 | 11.49 p. m. | 12.14 a. m. | .14 | .14 | .35 | .46 | .54 | .61 | | | | | | | | | |
| Sept. 1 | 4.56 a. m. | 8.29 a. m. | 2.03 | 5.04 a. m. | 6.00 a. m. | .03 | .08 | .27 | .43 | .54 | .63 | .73 | .83 | .93 | 1.11 | 1.23 | 1.36 | | | |
| Sioux City, Iowa: | | | | | | | | | | | | | | | | | | | | |
| May 19 | 4.37 p. m. | 6.20 p. m. | .97 | 4.48 p. m. | 5.16 p. m. | .02 | .14 | .41 | .63 | .77 | .87 | .89 | | | | | | | | |
| July 9 | 8.45 a. m. | 10.30 a. m. | .80 | 8.54 a. m. | 9.06 a. m. | .05 | .23 | .45 | .50 | | | | | | | | | | | |
| July 11 | 12.45 a. m. | 2.50 a. m. | .86 | 1.08 a. m. | 1.36 a. m. | .08 | .12 | .22 | .37 | .52 | .60 | .64 | | | | | | | | |
| Aug. 2–3 | 10.05 p. m. | 3.30 a. m. | 1.30 | 10.13 p. m. | 10.58 p. m. | .02 | .08 | .20 | .41 | .55 | .65 | .71 | .76 | .81 | .95 | | | | | |
| Pierre, S. Dak.: | | | | | | | | | | | | | | | | | | | | |
| Aug. 4 | 6.35 p. m. | 9.20 p. m. | 1.39 | 6.38 p. m. | 6.53 p. m. | .01 | .20 | .50 | .66 | | | | | | | | | | | |
| | | | | 8.45 p. m. | 9.17 p. m. | .76 | .07 | .10 | .18 | .28 | .49 | .61 | .63 | | | | | | | |
| Huron, S. Dak.: | | | | | | | | | | | | | | | | | | | | |
| July 4 | 7.32 a. m. | 9.45 a. m. | .54 | 7.34 a. m. | 7.42 a. m. | .01 | .25 | .31 | | | | | | | | | | | | |
| July 30 | 1.30 p. m. | 3.55 p. m. | .83 | 1.33 p. m. | 1.58 p. m. | .01 | .19 | .33 | .47 | .63 | .79 | | | | | | | | | |
| Aug. 9 | D.N., a. m. | 7.20 a. m. | .82 | 2.58 a. m. | 3.11 a. m. | .01 | .21 | .41 | .47 | | | | | | | | | | | |
| Yankton, S. Dak.: | | | | | | | | | | | | | | | | | | | | |
| June 12 | 4.30 p. m. | 6.40 p. m. | .77 | 5.02 p. m. | 5.10 p. m. | .07 | .25 | .46 | | | | | | | | | | | | |
| June 20 | 3.20 p. m. | 10.50 p. m. | 2.66 | 9.19 p. m. | 9.59 p. m. | .85 | .16 | .35 | .60 | 1.10 | 1.48 | 1.63 | 1.68 | 1.73 | | | | | | |
| July 9 | 6.40 a. m. | 8.10 a. m. | .70 | 6.59 a. m. | 7.13 a. m. | .03 | .26 | .50 | .59 | | | | | | | | | | | |
| July 9 | 6.10 p. m. | 9.35 p. m. | 1.10 | 6.17 p. m. | 6.52 p. m. | .01 | .12 | .13 | .15 | .37 | .56 | .69 | .82 | | | | | | | |
| July 10–11 | 10.55 p. m. | 1.15 a. m. | 1.22 | 11.01 p. m. | 11.21 p. m. | .01 | .14 | .50 | .79 | .93 | | | | | | | | | | |
| Aug. 12 | 12.50 a. m. | 3.10 a. m. | 1.14 | 2.13 a. m. | 2.48 a. m. | .33 | .12 | .27 | .32 | .47 | .56 | .71 | .81 | | | | | | | |
| Sept. 11–12 | 5.15 p. m. | 3.45 a. m. | 1.43 | 9.21 p. m. | 9.30 p. m. | .72 | .23 | .56 | | | | | | | | | | | | |
| NORTHERN SLOPE. | | | | | | | | | | | | | | | | | | | | |
| Havre, Mont.: | | | | | | | | | | | | | | | | | | | | |
| July 9 | 8.31 p. m. | 9.20 p. m. | .81 | 8.56 p. m. | 9.12 p. m. | .02 | .10 | .40 | .77 | .79 | | | | | | | | | | |
| Helena, Mont.: | | | | | | | | | | | | | | | | | | | | |
| June 29 | 4.06 p. m. | 7.45 p. m. | .94 | 4.50 p. m. | 5.12 p. m. | .08 | .08 | .18 | .65 | .76 | .81 | | | | | | | | | |
| Rapid City, S. Dak.: | | | | | | | | | | | | | | | | | | | | |
| May 31 | 1.41 p. m. | 5.38 p. m. | .48 | 2.05 p. m. | 2.16 p. m. | .04 | .22 | .30 | .33 | | | | | | | | | | | |
| Cheyenne, Wyo.: | | | | | | | | | | | | | | | | | | | | |
| June 7 | 7.18 p. m. | D.N., p. m. | .77 | 9.01 p. m. | 9.11 p. m. | .05 | .30 | .60 | | | | | | | | | | | | |
| June 13 | 4.58 p. m. | 6.15 p. m. | .45 | 5.42 p. m. | 5.57 p. m. | .01 | .09 | .20 | .43 | | | | | | | | | | | |
| Sept. 3 | 4.07 p. m. | 5.12 p. m. | .52 | 4.36 p. m. | 4.50 p. m. | .17 | .12 | .23 | .35 | | | | | | | | | | | |
| Sheridan, Wyo.: | | | | | | | | | | | | | | | | | | | | |
| June 1 | 3.16 p. m. | 3.46 p. m. | .45 | 3.18 p. m. | 3.28 p. m. | .01 | .25 | .40 | | | | | | | | | | | | |
| July 10 | 3.44 p. m. | 4.04 p. m. | .38 | 3.46 p. m. | 3.58 p. m. | .01 | .19 | .31 | .36 | | | | | | | | | | | |
| North Platte, Nebr.: | | | | | | | | | | | | | | | | | | | | |
| May 23 | 12.25 a. m. | 7.10 a. m. | 1.00 | 3.29 a. m. | 3.42 a. m. | .09 | .13 | .37 | .42 | | | | | | | | | | | |
| June 9 | 8.50 p. m. | 11.50 p. m. | 2.12 | 9.14 p. m. | 10.39 p. m. | .04 | .16 | .31 | .48 | .58 | .73 | .92 | 1.01 | 1.03 | 1.06 | 1.10 | 1.15 | 1.77 | 2.00 | |
| June 10 | 8.45 p. m. | 11.45 p. m. | .83 | 10.19 p. m. | 10.44 p. m. | .20 | .05 | .10 | .19 | .37 | .49 | | | | | | | | | |
| July 9 | 12.40 p. m. | 4.15 p. m. | 1.42 | 1.03 p. m. | 1.28 p. m. | .09 | .11 | .19 | .32 | .52 | .68 | | | | | | | | | |
| July 9 | 4.40 p. m. | 6.40 p. m. | .93 | 5.01 p. m. | 5.37 p. m. | .09 | .15 | .17 | .19 | .27 | .28 | .40 | .55 | .61 | | | | | | |
| July 10–11 | 9.50 p. m. | 1.05 a. m. | .77 | 10.04 p. m. | 10.25 p. m. | .01 | .18 | .38 | .45 | .51 | .55 | | | | | | | | | |
| July 29–30 | 9.05 p. m. | 3.30 a. m. | 1.28 | 10.40 p. m. | 11.24 p. m. | .22 | .06 | .14 | .21 | .33 | .40 | .51 | .59 | .79 | .93 | | | | | |

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1909, ETC.—Continued.

| Station and date. | Total duration. | | Total amount of precipitation (inches). | Excessive rate. | | Amount before excessive rate began (inches). | Accumulated amounts of precipitation (in inches) during periods of time indicated. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | From— | To— | | Began— | Ended— | | 5 min. | 10 min. | 15 min. | 20 min. | 25 min. | 30 min. | 35 min. | 40 min. | 45 min. | 50 min. | 60 min. | 80 min. | 100 min. | 120 min. |
| **MIDDLE SLOPE.** | | | | | | | | | | | | | | | | | | | | |
| **Denver, Colo.:** | | | | | | | | | | | | | | | | | | | | |
| July 3 | 2.45 p. m. | 6.05 p. m. | 1.12 | 3.24 p. m. | 4.01 p. m. | 0.06 | 0.07 | 0.11 | 0.15 | 0.37 | 0.66 | 0.80 | 0.91 | 0.96 | | | | | | |
| July 4 | 5.30 p. m. | 8.20 p. m. | 1.44 | 5.40 p. m. | 6.09 p. m. | .01 | .15 | .67 | 1.04 | 1.19 | 1.30 | 1.35 | | | | | | | | |
| July 8 | 10.10 p. m. | 11.40 p. m. | .93 | 10.22 p. m. | 10.38 p. m. | .01 | .41 | .51 | .62 | .70 | | | | | | | | | | |
| Aug. 10 | 5.50 p. m. | 7.35 p. m. | .60 | 5.58 p. m. | 6.16 p. m. | .01 | .15 | .32 | .42 | .50 | | | | | | | | | | |
| Sept. 4–5 | 6.52 a. m. | D. N., a. m. | 1.94 | 9.38 a. m. | 10.21 a. m. | .18 | .07 | .11 | .15 | .22 | .29 | .41 | .60 | .76 | 0.81 | | | | | |
| **Pueblo, Colo.:** | | | | | | | | | | | | | | | | | | | | |
| June 6 | 3.43 p. m. | 4.45 p. m. | .36 | 3.43 p. m. | 3.52 p. m. | .00 | .24 | .33 | | | | | | | | | | | | |
| June 7 | 4.26 p. m. | 5.50 p. m. | .48 | 5.17 p. m. | 5.34 p. m. | .02 | .15 | .29 | .39 | .45 | | | | | | | | | | |
| Sept. 7 | 7.55 p. m. | 9.45 p. m. | .63 | 8.09 p. m. | 8.32 p. m. | .04 | .16 | .29 | .37 | .45 | .49 | | | | | | | | | |
| **Concordia, Kans.:** | | | | | | | | | | | | | | | | | | | | |
| May 14 | 3.30 a. m. | 7.35 a. m. | .49 | 3.56 a. m. | 4.08 a. m. | .05 | .07 | .39 | .42 | | | | | | | | | | | |
| July 29–30 | 9.12 p. m. | 5.53 a. m. | 2.14 | 9.36 p. m. | 10.19 p. m. | .01 | .23 | .55 | .89 | 1.18 | 1.49 | 1.65 | 1.73 | 1.80 | 1.85 | | | | | |
| July 30–31 | 11.17 p. m. | 2.52 a. m. | 1.35 | 11.59 p. m. | 12.43 a. m. | .10 | .16 | .43 | .59 | .77 | .88 | .94 | 1.01 | 1.11 | 1.16 | | | | | |
| Sept. 6 | 4.55 a. m. | 11.43 a. m. | 1.87 | 10.13 a. m. | 11.24 a. m. | .41 | .10 | .28 | .36 | .45 | .54 | .67 | .73 | .79 | .88 | 1.02 | 1.12 | 1.46 | | |
| Sept. 9 | 12.18 a. m. | 3.05 a. m. | .83 | 12.24 a. m. | 12.51 a. m. | .01 | .08 | .19 | .31 | .52 | .59 | .62 | | | | | | | | |
| Sept. 12–13 | 6.23 p. m. | 6.27 a. m. | 1.57 | 8.26 p. m. | 8.38 p. m. | .29 | .13 | .25 | .41 | | | | | | | | | | | |
| Oct. 8 | 8.50 a. m. | 1.42 p. m. | .99 | 9.20 a. m. | 9.45 a. m. | .20 | .05 | .20 | .34 | .40 | .47 | | | | | | | | | |
| **Dodge, Kans:** | | | | | | | | | | | | | | | | | | | | |
| May 24 | 3.30 p. m. | 4.45 p. m. | 1.21 | 3.43 p. m. | 4.22 p. m. | .10 | .37 | .63 | .75 | .85 | .86 | .87 | .96 | 1.05 | | | | | | |
| June 11 | D. N. a. m. | 7.10 a. m. | 1.41 | 4.22 a. m. | 4.50 a. m. | T. | .08 | .26 | .46 | .64 | .78 | .82 | | | | | | | | |
| July 6 | 6.58 p. m. | 7.35 p. m. | .63 | 6.59 p. m. | 7.29 p. m. | T. | 1.33 | 1.33 | 1.40 | 1.49 | 1.58 | 1.62 | | | | | | | | |
| July 13–14 | 11.20 p. m. | D. N., a. m. | .92 | 11.25 p. m. | 11.59 p. m. | .01 | .08 | .20 | .31 | .42 | .48 | .57 | .61 | | | | | | | |
| Aug. 1 | 4.25 p. m. | 6.05 p. m. | .90 | 4.40 p. m. | 5.04 p. m. | .06 | .11 | .28 | .37 | .57 | .67 | | | | | | | | | |
| **Wichita, Kans.:** | | | | | | | | | | | | | | | | | | | | |
| Apr. 26 | 6.00 p. m. | 7.10 p. m. | .78 | 6.14 p. m. | 6.28 p. m. | .02 | .26 | .57 | .65 | | | | | | | | | | | |
| June 7 | 8.32 p. m. | 10.20 p. m. | .48 | 8.35 p. m. | 8.47 p. m. | .01 | .17 | .43 | .47 | | | | | | | | | | | |
| June 13 | 2.26 p. m. | 3.37 p. m. | .80 | 2.44 p. m. | 3.04 p. m. | .01 | .26 | .50 | .67 | .75 | | | | | | | | | | |
| June 16 | D. N., a. m. | 5.15 a. m. | 1.18 | 4.26 a. m. | 5.02 a. m. | .11 | .10 | .20 | .32 | .46 | .58 | .83 | 1.04 | 1.06 | | | | | | |
| June 22 | 6.25 p. m. | 9.10 p. m. | 1.60 | 7.15 p. m. | 7.53 p. m. | .41 | .22 | .40 | .43 | .64 | .84 | 1.05 | 1.13 | 1.17 | | | | | | |
| Oct. 17–18 | 7.20 p. m. | D. N., a. m. | .87 | 7.39 p. m. | 7.56 p. m. | .02 | .14 | .36 | .66 | .71 | | | | | | | | | | |
| Nov. 12–13 | 8.33 p. m. | 8.28 p. m. | 4.74 | 9.04 p. m. | 10.46 p. m. | .25 | .20 | .38 | .70 | .74 | .81 | .88 | 1.00 | 1.11 | 1.21 | 1.24 | 1.52 | 1.80 | 2.00 | 2.03 |
| **Oklahoma, Okla.:** | | | | | | | | | | | | | | | | | | | | |
| Mar. 8 | D. N., a. m. | 6.25 a. m. | .87 | 5.38 a. m. | 6.03 a. m. | .19 | .08 | .22 | .48 | .55 | .66 | | | | | | | | | |
| Apr. 25 | 8.10 p. m. | 9.05 p. m. | 1.13 | 8.27 p. m. | 8.42 p. m. | .01 | .45 | .81 | 1.09 | | | | | | | | | | | |
| May 8–9 | 4.40 p. m. | D. N., a. m. | 3.14 | 5.06 p. m. | 6.31 p. m. | .13 | .44 | .69 | .74 | .74 | .87 | 1.18 | 1.46 | 1.60 | 1.70 | 1.76 | 1.88 | 2.24 | 2.42 | |
| May 23 | 10.12 p. m. | 11.40 p. m. | 1.65 | 10.14 p. m. | 10.54 p. m. | .01 | .38 | .71 | 1.00 | 1.18 | 1.31 | 1.38 | 1.46 | 1.51 | | | | | | |
| May 24 | 3.55 p. m. | 5.50 p. m. | 1.40 | 4.00 p. m. | 4.40 p. m. | .01 | .14 | .26 | .53 | .76 | .91 | 1.07 | 1.18 | 1.24 | | | | | | |
| Aug. 31 | 12.08 p. m. | 2.10 p. m. | .68 | 12.10 p. m. | 12.32 p. m. | .01 | .12 | .24 | .38 | .52 | .57 | | | | | | | | | |
| Nov. 11–12 | 11.15 p. m. | D. N., a. m. | .72 | 11.17 p. m. | 11.31 p. m. | .02 | .07 | .36 | .54 | | | | | | | | | | | |
| **SOUTHERN SLOPE.** | | | | | | | | | | | | | | | | | | | | |
| **Abilene, Tex.:** | | | | | | | | | | | | | | | | | | | | |
| May 20 | D. N., a. m. | 7.10 a. m. | 1.44 | 5.10 a. m. | 5.30 a. m. | .83 | .06 | .13 | .34 | .53 | | | | | | | | | | |
| May 24 | 5.20 a. m. | 6.30 a. m. | .80 | 5.47 a. m. | 6.12 a. m. | .06 | .46 | .53 | .57 | .66 | .74 | | | | | | | | | |
| June 11 | 12.10 a. m. | 1.05 a. m. | .82 | 12.17 a. m. | 12.35 a. m. | .02 | .10 | .35 | .68 | .77 | | | | | | | | | | |
| June 11–12 | 10.55 p. m. | 2.50 a. m. | .97 | 11.00 p. m. | 11.25 p. m. | T. | .05 | .23 | .32 | .54 | .70 | | | | | | | | | |
| June 26 | D. N., a. m. | D. N., a. m. | .38 | 4.30 a. m. | 4.42 a. m. | .01 | .13 | .30 | .35 | | | | | | | | | | | |
| Sept. 5 | 2.55 p. m. | 3.35 p. m. | .59 | 3.07 p. m. | 3.25 p. m. | .03 | .15 | .38 | .51 | .55 | | | | | | | | | | |
| **Amarillo, Tex.:** | | | | | | | | | | | | | | | | | | | | |
| June 13–14 | 11.16 p. m. | 12.10 a. m. | .84 | 11.21 p. m. | 11.43 p. m. | .02 | .14 | .52 | .67 | .79 | .81 | | | | | | | | | |
| June 20 | 6.30 p. m. | 7.28 p. m. | .75 | 6.50 p. m. | 7.07 p. m. | .03 | .07 | .23 | .40 | .45 | | | | | | | | | | |
| June 25–26 | 9.47 p. m. | 2.50 a. m. | .90 | 9.58 p. m. | 10.24 p. m. | .02 | .06 | .18 | .34 | .44 | .51 | .55 | | | | | | | | |
| July 1 | 4.00 a. m. | 5.20 a. m. | .56 | 4.24 a. m. | 4.40 a. m. | .01 | .22 | .41 | .51 | .54 | | | | | | | | | | |
| July 6 | 8.35 p. m. | 9.17 p. m. | .65 | 8.42 p. m. | 8.58 p. m. | .01 | .16 | .42 | .60 | .63 | | | | | | | | | | |
| Sept. 7 | 4.10 p. m. | 8.00 p. m. | 1.48 | 6.31 p. m. | 7.30 p. m. | .44 | .14 | .18 | .19 | .22 | .46 | .65 | .75 | .78 | .79 | .81 | 1.02 | | | |
| **Del Rio, Tex.:** | | | | | | | | | | | | | | | | | | | | |
| Mar. 11 | 10.50 p. m. | 11.40 p. m. | 1.45 | 11.00 p. m. | 11.33 p. m. | .01 | .21 | .47 | .66 | .81 | 1.15 | 1.39 | 1.44 | | | | | | | |
| Apr. 26 | 4.35 p. m. | 6.55 p. m. | .74 | 5.18 p. m. | 5.30 p. m. | .24 | .10 | .31 | .36 | | | | | | | | | | | |
| July 22–23 | 6.15 p. m. | 7.50 a. m. | 3.35 | 11.28 p. m. | 11.50 p. m. | 1.51 | .20 | .52 | .64 | .92 | .98 | | | | | | | | | |
| Sept. 14 | 2.50 a. m. | 11.40 a. m. | 3.07 | 5.04 a. m. | 5.59 a. m. | .70 | .11 | .26 | .36 | .48 | .61 | .71 | .80 | .91 | 1.06 | 1.18 | 1.27 | | | |
| **Roswell, N. Mex.:** | | | | | | | | | | | | | | | | | | | | |
| Aug. 20 | 9.05 p. m. | 11.55 p. m. | 1.23 | 9.07 p. m. | 9.32 p. m. | .01 | .19 | .35 | .58 | .84 | .92 | | | | | | | | | |
| Sept. 12 | 3.50 p. m. | 5.45 p. m. | .40 | 4.17 p. m. | 4.23 p. m. | .04 | .20 | .33 | | | | | | | | | | | | |
| **SOUTHERN PLATEAU.** | | | | | | | | | | | | | | | | | | | | |
| **El Paso, Tex.:** | | | | | | | | | | | | | | | | | | | | |
| July 5 | 5.35 p. m. | 9.30 p. m. | .96 | 7.20 p. m. | 7.46 p. m. | .37 | .07 | .18 | .33 | .40 | .50 | .53 | | | | | | | | |
| **Santa Fe, N. Mex.:** | | | | | | | | | | | | | | | | | | | | |
| July 20 | 4.58 p. m. | 6.05 p. m. | .44 | 5.11 p. m. | 5.23 p. m. | .04 | .18 | .33 | .36 | | | | | | | | | | | |
| Sept. 3 | 1.07 p. m. | 2.55 p. m. | 1.21 | 1.33 p. m. | 2.12 p. m. | .03 | .16 | .33 | .55 | .71 | .79 | .92 | 1.02 | 1.10 | | | | | | |
| **Flagstaff, Ariz.:** | | | | | | | | | | | | | | | | | | | | |
| July 19 | D. N., a. m. | 6.10 a. m. | .50 | 3.00 a. m. | 3.16 a. m. | .03 | .10 | .33 | .41 | .43 | | | | | | | | | | |
| Aug. 11 | 4.50 p. m. | D. N., p. m. | .65 | 5.25 p. m. | 5.43 p. m. | .04 | .11 | .29 | .35 | .37 | | | | | | | | | | |
| Aug. 14 | 1.57 p. m. | 4.00 p. m. | 1.00 | 2.21 p. m. | 3.01 p. m. | .09 | .15 | .28 | .46 | .52 | .56 | .69 | .80 | .87 | | | | | | |
| **Brawley, Cal.:** | | | | | | | | | | | | | | | | | | | | |
| Aug. 16 | 9.17 a. m. | 4.45 p. m. | .91 | 10.37 a. m. | 10.58 a. m. | .06 | .12 | .22 | .42 | .64 | .68 | | | | | | | | | |

[1] Estimated.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1909, ETC.—Continued.

| Station and date. | Total duration. | | Total amount of precipitation (inches). | Excessive rate. | | Amount before excessive rate began (inches). | Accumulated amount of precipitation (in inches) during periods of time indicated. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | From— | To— | | Began— | Ended— | | 5 min. | 10 min. | 15 min. | 20 min. | 25 min. | 30 min. | 35 min. | 40 min. | 45 min. | 50 min. | 60 min. | 80 min. | 100 min. | 120 min. |
| NORTHERN PLATEAU. | | | | | | | | | | | | | | | | | | | | |
| Baker City, Oreg.: | | | | | | | | | | | | | | | | | | | | |
| June 18 | 2.05 p. m. | 2.55 p. m. | 0.46 | 2.19 p. m. | 2.37 p. m. | 0.01 | 0.15 | 0.25 | 0.37 | 0.42 | | | | | | | | | | |
| Sept. 3 | 1.25 p. m. | 3.20 p. m. | .80 | 1.57 p. m. | 2.16 p. m. | .05 | .17 | .38 | .50 | .58 | | | | | | | | | | |
| NORTH PACIFIC COAST REGION. | | | | | | | | | | | | | | | | | | | | |
| Tacoma, Wash.: | | | | | | | | | | | | | | | | | | | | |
| Nov. 1-2 | 6.35 a. m. | 4.10 a. m. | 2.12 | 10.59 p. m. | 11.40 p. m. | 1.01 | .07 | .14 | .24 | .33 | 0.42 | 0.49 | 0.62 | 0.70 | 0.73 | | | | | |
| Portland, Oreg.: | | | | | | | | | | | | | | | | | | | | |
| July 25 | 9.08 p. m. | 10.15 p. m. | .57 | 9.10 p. m. | 9.38 p. m. | .01 | .15 | .20 | .20 | .21 | .46 | .52 | | | | | | | | |
| MIDDLE PACIFIC COAST REGION. | | | | | | | | | | | | | | | | | | | | |
| Mount Tamalpais, Cal.: | | | | | | | | | | | | | | | | | | | | |
| Nov. 10 | 2.50 p. m. | D.N., p.m. | .96 | 6.38 p. m. | 7.03 p. m. | .27 | .08 | .17 | .29 | .39 | .50 | | | | | | | | | |
| Red Bluff, Cal.: | | | | | | | | | | | | | | | | | | | | |
| Mar. 6 | 2.30 p. m. | 9.00 p. m. | 1.85 | 4.24 p. m. | 5.00 p. m. | .23 | .06 | .22 | .33 | .40 | .48 | .63 | .75 | .79 | | | | | | |
| Mar. 19 | 3.31 p. m. | 4.45 p. m. | .50 | 3.51 p. m. | 4.06 p. m. | .04 | .12 | .33 | .37 | | | | | | | | | | | |
| SOUTH PACIFIC COAST REGION. | | | | | | | | | | | | | | | | | | | | |
| San Luis Obispo, Cal.: | | | | | | | | | | | | | | | | | | | | |
| Jan. 25-26 | 6.00 p. m. | 11.00 a. m. | 4.46 | 9.59 p. m. | 10.59 p. m. | .63 | .05 | .10 | .15 | .19 | .37 | .46 | .55 | .62 | .71 | 0.86 | 0.95 | | | |
| ISLAND POSSESSIONS. | | | | | | | | | | | | | | | | | | | | |
| Honolulu, Hawaii: | | | | | | | | | | | | | | | | | | | | |
| Jan. 11-12 | 12.10 p. m. | 9.55 a. m. | 1.74 | 3.29 a. m. | 4.14 a. m. | .97 | .12 | .27 | .37 | .44 | .46 | .50 | .53 | .60 | .72 | | | | | |
| Feb. 6 | 1.10 p. m. | 6.15 p. m. | .84 | 2.42 p. m. | 3.02 p. m. | .12 | .08 | .20 | .50 | .63 | | | | | | | | | | |
| Dec. 25 | 10.40 a. m. | 9.00 p. m. | 1.12 | 2.21 p. m. | 2.31 p. m. | .49 | .20 | .35 | | | | | | | | | | | | |
| San Juan, P. R.: | | | | | | | | | | | | | | | | | | | | |
| Jan. 7 | 4.24 p. m. | 8.35 p. m. | 1.01 | 6.35 p. m. | 6.55 p. m. | .14 | .24 | .60 | .68 | .76 | | | | | | | | | | |
| Jan. 24 | 9.25 a. m. | 3.10 p. m. | 2.68 | 9.53 a. m. | 10.48 a. m. | .04 | .07 | .13 | .23 | .35 | .43 | .49 | .50 | .61 | .77 | .88 | .96 | | | |
| | | | | 12.02 p. m. | 12.59 p. m. | 1.29 | .09 | .17 | .23 | .31 | .46 | .56 | .74 | .87 | .97 | 1.04 | 1.14 | | | |
| June 18 | 12.28 p. m. | 1.20 p. m. | .84 | 12.40 p. m. | 12.57 p. m. | .05 | [1].35 | [1].65 | [1].75 | [1].78 | | | | | | | | | | |
| June 21 | 11.51 a. m. | 3.50 p. m. | 1.58 | 11.55 a. m. | 12.18 p. m. | .01 | .26 | .54 | .71 | .88 | .92 | | | | | | | | | |
| June 28 | 6.30 p. m. | 7.30 p. m. | .71 | 6.48 p. m. | 6.56 p. m. | .03 | [1].30 | [1].45 | | | | | | | | | | | | |
| July 15-16 | 10.15 p. m. | 6.05 a. m. | 1.90 | 10.32 p. m. | 10.59 p. m. | .03 | .08 | .24 | .48 | .64 | .90 | .96 | | | | | | | | |
| | | | | 1.36 a. m. | 1.59 a. m. | 1.21 | .15 | .19 | .25 | .38 | .45 | | | | | | | | | |
| Sept. 11 | 6.10 p. m. | 10.25 p. m. | 1.50 | 8.15 p. m. | 8.29 p. m. | .24 | .21 | .46 | .67 | | | | | | | | | | | |
| | | | | 9.16 p. m. | 9.29 p. m. | .93 | .05 | .26 | .49 | | | | | | | | | | | |
| Sept. 12 | 10.44 a. m. | 12.10 p. m. | .71 | 10.44 a. m. | 10.56 a. m. | .00 | .35 | .60 | .65 | | | | | | | | | | | |
| Oct. 17 | 8.30 a. m. | 10.55 a. m. | 1.30 | 9.24 a. m. | 10.11 a. m. | .26 | .19 | .37 | .43 | .53 | .71 | .72 | .75 | .81 | .94 | 1.01 | | | | |
| Nov. 7-8 | 9.20 p. m. | 3.30 a. m. | 1.86 | 11.39 p. m. | 12.05 a. m. | .14 | .22 | .58 | .79 | .88 | .97 | 1.02 | | | | | | | | |
| Nov. 12 | 1.30 p. m. | 10.00 p. m. | 1.89 | 6.13 p. m. | 6.54 p. m. | .58 | .17 | .29 | .37 | .46 | .50 | .57 | .64 | .72 | .76 | | | | | |
| Nov. 23 | 2.40 a. m. | 6.20 a. m. | 1.92 | 4.13 a. m. | 4.42 a. m. | .64 | .13 | .40 | .63 | .76 | .88 | .95 | | | | | | | | |

[1] Estimated.

# PART III.

## MONTHLY AND ANNUAL METEOROLOGICAL SUMMARIES FOR ONE HUNDRED AND EIGHTY-EIGHT STATIONS DURING 1909.

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## EXPLANATION OF THE TABLES.

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

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

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

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

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

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

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

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

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

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

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

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

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

(6) C. $\Delta\theta$. H. The correction of the free-air reduction for the Plateau effect.

(7) $e_1$. The correction for the moisture mixed with the dry air.

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

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

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

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

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

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

The monthly mean pressures recorded in the annual summary tables have the corrections to the mean of 24-hourly observations applied to them.

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

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

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

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

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

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

The sum total of the depth of rain and melted snow is measured to within 0.01 inch at 8 a. m. and 8 p. m., seventy-fifth meridian time, daily. The total precipitation is determined from the amounts recorded daily, midnight to midnight, standard of time in local use.

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

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

The number of days with precipitation amounting to 0.01 and 0.04 inch, respectively, relates to the rainfall from midnight to midnight, standard of time in local use.

The cloudiness recorded in the summaries is derived from personal observations. The proportion of sky covered with clouds is estimated by the observer at 8 a. m. and 8 p. m., seventy-fifth meridian time, on a scale of 0–10. The two observations can not be combined into a daily mean in the present state of our knowledge of the diurnal variations 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" cloudiness.

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

*Wind.*—The direction and velocity of the wind are recorded at nearly all the stations on what is known as the "triple register." On these instruments the direction of the wind is recorded every minute.

The maximum velocities given are for five-minute periods.

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

*Number of days.*—The number of days with snow includes all of those on which at least 0.01 inch of melted snow, corresponding to about one-tenth of an inch of unmelted snow, fell in the twenty-four hours, midnight to midnight, standard of time in local use.

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

No record is made of deposits of dew.

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

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909.

ABILENE, TEX.

[$\phi$=32° 23′ N.; $\lambda$=99° 40′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 28.281 | 28.757 | 27.920 | 41.4 | 52.0 | 61.1 | 36.8 | 48.9 | 82 | 7 | 35 | 33 | 46 | 53 | 0.232 | 0.210 | 0.06 | 0.06 | 5.6 | 6.1 | 6.0 |
| February | 28.170 | 28.665 | 27.771 | 43.5 | 58.2 | 65.9 | 39.5 | 52.7 | 80 | 13 | 24 | 24 | 49 | 29 | .149 | .138 | .00 | .00 | 4.5 | 4.4 | 4.8 |
| March | 28.102 | 28.561 | 27.721 | 47.6 | 64.6 | 70.8 | 44.3 | 57.6 | 87 | 29 | 32 | 26 | 57 | 30 | .190 | .158 | .39 | .33 | 5.5 | 4.8 | 5.2 |
| April | 28.127 | 28.653 | 27.717 | 53.3 | 71.6 | 76.9 | 50.7 | 63.8 | 94 | 30 | 41 | 35 | 66 | 32 | .288 | .238 | .38 | .35 | 4.3 | 4.1 | 4.4 |
| May | 28.039 | 28.430 | 27.722 | 62.4 | 79.2 | 84.3 | 58.6 | 71.4 | 97 | 36 | 51 | 44 | 68 | 31 | .406 | .319 | 2.71 | 1.58 | 4.3 | 3.9 | 4.6 |
| June | 28.138 | 28.321 | 28.013 | 71.7 | 85.6 | 90.7 | 68.3 | 79.5 | 96 | 60 | 64 | 59 | 76 | 44 | .594 | .515 | 4.04 | 1.75 | 3.8 | 4.9 | 4.5 |
| July | 28.136 | 28.323 | 27.942 | 76.4 | 90.4 | 95.4 | 74.2 | 84.8 | 103 | 68 | 66 | 60 | 72 | 39 | .651 | .533 | 1.09 | .34 | 4.2 | 4.8 | 4.9 |
| August | 28.177 | 28.354 | 27.994 | 73.9 | 87.6 | 93.8 | 72.1 | 83.0 | 104 | 65 | 63 | 60 | 70 | 42 | .584 | .525 | .62 | .35 | 4.5 | 5.2 | 5.7 |
| September | 28.232 | 28.489 | 27.760 | 64.5 | 81.6 | 87.0 | 63.6 | 75.3 | 96 | 45 | 54 | 50 | 70 | 36 | .446 | .389 | 1.05 | .59 | 2.4 | 2.6 | 2.8 |
| October | 28.244 | 28.607 | 27.904 | 56.3 | 71.0 | 78.9 | 53.4 | 66.1 | 91 | 39 | 45 | 44 | 68 | 41 | .317 | .303 | 1.94 | 1.36 | 1.9 | 1.6 | 2.5 |
| November | 28.243 | 28.638 | 27.916 | 53.1 | 63.0 | 71.6 | 50.1 | 60.8 | 84 | 32 | 47 | 46 | 80 | 57 | .343 | .334 | 1.96 | .88 | 5.0 | 3.1 | 4.9 |
| December | 28.264 | 28.602 | 27.829 | 32.3 | 42.6 | 49.1 | 28.2 | 38.6 | 75 | 3 | 26 | 30 | 78 | 64 | .149 | .176 | .73 | .48 | 4.5 | 4.1 | 5.2 |
| Year | 28.179 | 28.757 | 27.717 | 56.4 | 70.6 | 77.1 | 53.3 | 65.2 | 104 | 3 | 46 | 43 | 67 | 42 | .362 | .320 | 14.97 | 1.75 | 4.2 | 4.1 | 4.6 |

ALBANY, N. Y.

[$\phi$=42° 39′ N.; $\lambda$=73° 45′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 30.048 | 30.683 | 29.119 | 23.2 | 26.5 | 33.8 | 17.5 | 25.6 | 53 | −12 | 18 | 20 | 81 | 75 | 0.114 | 0.121 | 3.00 | 0.81 | 6.3 | 6.5 | 7.1 |
| February | 29.849 | 30.389 | 28.974 | 24.9 | 29.5 | 36.6 | 20.3 | 28.4 | 51 | − 6 | 20 | 22 | 80 | 75 | .117 | .126 | 4.00 | 1.63 | 6.6 | 6.5 | 6.5 |
| March | 29.731 | 30.309 | 28.852 | 29.7 | 33.6 | 39.8 | 26.0 | 32.9 | 51 | 14 | 23 | 25 | 74 | 70 | .122 | .134 | 2.11 | .89 | 5.5 | 6.5 | 5.3 |
| April | 29.951 | 30.505 | 29.585 | 41.3 | 46.2 | 54.7 | 36.1 | 45.4 | 86 | 24 | 32 | 35 | 70 | 65 | .190 | .212 | 2.12 | .88 | 6.2 | 5.2 | 5.3 |
| May | 29.823 | 30.211 | 29.523 | 54.7 | 59.7 | 66.8 | 48.7 | 57.8 | 81 | 36 | 43 | 46 | 67 | 63 | .292 | .327 | 2.72 | .63 | 6.0 | 6.0 | 5.1 |
| June | 29.863 | 30.174 | 29.644 | 65.2 | 70.4 | 78.9 | 58.5 | 68.7 | 94 | 46 | 54 | 56 | 69 | 64 | .439 | .475 | 2.74 | 1.02 | 5.4 | 5.4 | 5.0 |
| July | 29.807 | 30.192 | 29.411 | 67.6 | 72.4 | 81.3 | 60.4 | 70.8 | 91 | 50 | 56 | 55 | 68 | 57 | .462 | .450 | 1.74 | .54 | 5.0 | 4.1 | 4.6 |
| August | 29.914 | 30.289 | 29.410 | 64.6 | 70.7 | 78.8 | 59.4 | 69.1 | 95 | 45 | 56 | 57 | 74 | 63 | .453 | .474 | 2.42 | .92 | 4.4 | 3.4 | 5.0 |
| September | 30.008 | 30.436 | 29.647 | 57.4 | 63.5 | 71.4 | 53.0 | 62.2 | 85 | 40 | 51 | 53 | 80 | 69 | .388 | .413 | 2.88 | 1.39 | 5.5 | 5.3 | 5.6 |
| October | 29.940 | 30.459 | 29.543 | 44.3 | 49.8 | 58.5 | 40.5 | 49.5 | 79 | 28 | 38 | 40 | 79 | 71 | .237 | .263 | .83 | .28 | 5.6 | 5.0 | 6.0 |
| November | 30.069 | 30.647 | 29.506 | 38.7 | 42.9 | 50.3 | 34.9 | 42.6 | 68 | 22 | 32 | 34 | 78 | 70 | .191 | .205 | 1.04 | .66 | 6.2 | 5.6 | 5.9 |
| December | 29.812 | 30.447 | 29.149 | 23.7 | 26.0 | 31.8 | 20.8 | 26.3 | 45 | − 2 | 18 | 20 | 77 | 76 | .100 | .107 | 2.36 | 1.49 | 5.5 | 5.2 | 5.7 |
| Year | 29.901 | 30.683 | 28.852 | 44.6 | 49.3 | 56.9 | 39.7 | 48.3 | 95 | −12 | 37 | 39 | 75 | 68 | .259 | .276 | 27.96 | 1.63 | 5.7 | 5.4 | 5.6 |

ALPENA, MICH.

[$\phi$=45° 05′ N.; $\lambda$=83° 30′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.416 | 30.004 | 28.730 | 20.5 | 23.2 | 28.9 | 15.5 | 22.2 | 49 | − 5 | 18 | 19 | 88 | 83 | 0.106 | 0.111 | 1.18 | 0.49 | 7.6 | 5.7 | 7.5 |
| February | 29.229 | 29.796 | 28.463 | 19.9 | 23.4 | 29.9 | 15.4 | 22.6 | 44 | − 6 | 17 | 20 | 87 | 87 | .098 | .113 | 2.54 | .82 | 9.0 | 6.4 | 7.2 |
| March | 29.223 | 29.758 | 28.600 | 23.8 | 29.6 | 35.7 | 20.5 | 28.1 | 48 | 6 | 20 | 24 | 85 | 77 | .110 | .126 | 1.78 | .94 | 6.5 | 5.3 | 5.5 |
| April | 29.294 | 29.773 | 28.675 | 34.2 | 36.3 | 44.2 | 29.1 | 36.6 | 62 | 11 | 29 | 30 | 82 | 78 | .106 | .173 | 4.05 | .75 | 7.0 | 6.8 | 7.0 |
| May | 29.253 | 29.594 | 28.733 | 47.9 | 50.6 | 59.2 | 41.2 | 50.2 | 83 | 27 | 38 | 41 | 70 | 72 | .235 | .264 | 1.83 | .45 | 5.5 | 6.4 | 5.6 |
| June | 29.338 | 29.658 | 29.058 | 58.9 | 63.4 | 73.3 | 51.0 | 62.2 | 91 | 38 | 49 | 51 | 71 | 67 | .359 | .393 | .91 | .64 | 4.7 | 4.0 | 4.9 |
| July | 29.283 | 29.668 | 28.856 | 63.4 | 67.7 | 78.2 | 55.4 | 66.8 | 93 | 43 | 54 | 56 | 72 | 68 | .429 | .457 | 2.37 | .70 | 3.5 | 4.5 | 4.9 |
| August | 29.377 | 29.690 | 29.035 | 63.9 | 68.2 | 77.4 | 57.5 | 67.4 | 93 | 42 | 57 | 57 | 78 | 68 | .473 | .476 | 1.23 | .34 | 4.4 | 4.9 | 5.2 |
| September | 29.436 | 29.916 | 28.870 | 52.0 | 57.2 | 66.1 | 46.3 | 56.2 | 89 | 36 | 47 | 48 | 82 | 74 | .332 | .356 | 1.86 | .94 | 5.3 | 4.9 | 6.1 |
| October | 29.363 | 29.955 | 28.716 | 38.9 | 43.8 | 52.1 | 35.2 | 43.6 | 73 | 22 | 34 | 38 | 83 | 81 | .204 | .245 | .79 | .33 | 5.7 | 4.5 | 6.2 |
| November | 29.452 | 29.974 | 28.806 | 37.2 | 39.0 | 46.7 | 32.9 | 39.8 | 67 | 10 | 33 | 35 | 84 | 86 | .196 | .213 | 2.21 | .91 | 7.5 | 5.0 | 7.3 |
| December | 29.224 | 29.824 | 28.606 | 22.4 | 24.4 | 29.0 | 19.2 | 24.1 | 46 | 2 | 19 | 21 | 87 | 85 | .108 | .116 | 3.00 | .90 | 8.9 | 7.8 | 8.4 |
| Year | 29.324 | 30.004 | 28.463 | 40.2 | 43.9 | 51.7 | 34.9 | 43.3 | 93 | − 6 | 35 | 37 | 81 | 77 | .235 | .254 | 23.75 | .94 | 6.3 | 5.5 | 6.3 |

AMARILLO, TEX.

[$\phi$=35° 13′ N.; $\lambda$=101° 50′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 26.278 | 26.701 | 25.910 | 31.9 | 43.8 | 56.1 | 25.6 | 40.8 | 80 | 3 | 23 | 26 | 70 | 52 | 0.129 | 0.144 | 0.07 | 0.06 | 3.5 | 4.4 | 3.0 |
| February | 26.173 | 26.635 | 25.751 | 30.4 | 49.4 | 56.5 | 26.9 | 41.7 | 72 | 3 | 21 | 22 | 67 | 37 | .117 | .119 | .28 | .24 | 4.1 | 4.4 | 2.9 |
| March | 26.163 | 26.565 | 25.769 | 33.7 | 52.7 | 58.5 | 31.3 | 44.9 | 80 | 14 | 27 | 30 | 77 | 48 | .148 | .175 | 1.28 | .57 | 4.1 | 3.9 | 3.6 |
| April | 26.186 | 26.742 | 25.800 | 40.7 | 63.4 | 69.7 | 38.3 | 54.0 | 89 | 26 | 32 | 31 | 73 | 34 | .189 | .179 | .50 | .18 | 3.1 | 3.6 | 3.2 |
| May | 26.146 | 26.408 | 25.879 | 51.4 | 72.0 | 77.3 | 47.9 | 62.6 | 93 | 27 | 41 | 36 | 70 | 33 | .276 | .227 | 1.08 | .87 | 2.7 | 3.6 | 3.1 |
| June | 26.256 | 26.430 | 26.124 | 63.5 | 80.4 | 86.9 | 60.1 | 73.5 | 99 | 52 | 57 | 55 | 80 | 46 | .469 | .445 | 4.72 | 1.41 | 3.9 | 5.1 | 4.2 |
| July | 26.272 | 26.507 | 26.009 | 68.6 | 84.9 | 89.8 | 66.0 | 77.9 | 96 | 62 | 62 | 60 | 81 | 46 | .567 | .536 | 3.63 | 1.18 | 3.2 | 4.9 | 4.0 |
| August | 26.323 | 26.572 | 26.166 | 67.5 | 84.3 | 90.4 | 65.7 | 78.0 | 102 | 57 | 61 | 57 | 80 | 42 | .541 | .474 | .87 | .34 | 4.3 | 4.8 | 4.3 |
| September | 26.352 | 26.645 | 25.888 | 56.9 | 75.2 | 82.9 | 55.7 | 69.3 | 95 | 45 | 50 | 50 | 80 | 44 | .384 | .380 | 2.19 | 1.49 | 4.4 | 2.7 | 4.0 |
| October | 26.320 | 26.726 | 26.025 | 46.9 | 61.7 | 71.5 | 44.2 | 57.8 | 88 | 29 | 39 | 38 | 75 | 45 | .241 | .234 | 1.18 | 1.12 | 4.1 | 2.8 | 4.0 |
| November | 26.286 | 26.728 | 25.961 | 40.3 | 52.7 | 63.3 | 37.5 | 50.4 | 83 | 26 | 36 | 38 | 84 | 60 | .217 | .235 | 3.25 | 1.55 | 4.0 | 3.7 | 4.5 |
| December | 26.248 | 26.557 | 25.853 | 24.7 | 31.8 | 41.6 | 20.2 | 30.9 | 75 | 3 | 21 | 25 | 85 | 78 | .114 | .139 | .54 | .39 | 4.5 | 4.3 | 5.0 |
| Year | 26.250 | 26.742 | 25.751 | 46.4 | 62.7 | 70.4 | 43.3 | 56.8 | 102 | 3 | 39 | 39 | 77 | 47 | .283 | .274 | 19.59 | 1.55 | 3.8 | 4.0 | 3.8 |

## ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909.

### ABILENE, TEX.

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

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 9.1 | S. | 38 | W. | 0 | 13 | 1 | 3 | 4 | 23 | 8 | 5 | 5 | 0 | 5 | 20 | 6 | 1 | 1 | 1 | 0 | 1 | 2 | 0 | 11 | 0 | 0 |
| February | 11.4 | S. | 37 | NW. | 0 | 5 | 3 | 0 | 2 | 22 | 9 | 6 | 9 | 0 | 9 | 15 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 |
| March | 10.3 | NW. | 48 | W. | 1 | 8 | 5 | 2 | 8 | 12 | 5 | 10 | 12 | 0 | 10 | 13 | 8 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 4 | 1 | 0 |
| April | 11.6 | S. | 44 | W. | 1 | 10 | 3 | 3 | 9 | 24 | 5 | 4 | 2 | 0 | 13 | 10 | 7 | 3 | 1 | 0 | 2 | 0 | 0 | 0 | 5 | 1 | 2 |
| May | 9.5 | SE. | 46 | W. | 3 | 7 | 5 | 1 | 19 | 15 | 7 | 3 | 5 | 0 | 8 | 20 | 3 | 8 | 6 | 0 | 1 | 0 | 0 | 7 | 0 | 9 | 0 |
| June | 7.1 | SE. | 33 | NW. | 0 | 2 | 4 | 5 | 27 | 17 | 1 | 1 | 3 | 0 | 14 | 12 | 4 | 10 | 10 | 0 | 0 | 0 | 0 | 18 | 0 | 7 | 0 |
| July | 7.1 | S. | 27 | S. | 0 | 1 | 3 | 6 | 10 | 37 | 1 | 0 | 2 | 2 | 9 | 19 | 3 | 6 | 5 | 0 | 0 | 0 | 0 | 29 | 0 | 3 | 0 |
| August | 5.8 | S. | 27 | SE. | 0 | 3 | 7 | 6 | 15 | 20 | 6 | 0 | 1 | 4 | 6 | 17 | 8 | 7 | 4 | 0 | 0 | 0 | 0 | 24 | 0 | 3 | 0 |
| September | 6.2 | S. | 32 | W. | 0 | 6 | 7 | 3 | 13 | 23 | 2 | 0 | 6 | 0 | 18 | 11 | 1 | 5 | 5 | 0 | 0 | 0 | 0 | 14 | 0 | 1 | 0 |
| October | 8.4 | S. | 32 | SE. | 0 | 7 | 1 | 1 | 11 | 27 | 3 | 7 | 5 | 0 | 23 | 5 | 3 | 4 | 4 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 |
| November | 8.9 | S. | 35 | S. | 0 | 6 | 2 | 1 | 12 | 30 | 2 | 3 | 3 | 1 | 9 | 15 | 6 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 |
| December | 7.9 | S. | 27 | SW. | 0 | 15 | 2 | 1 | 5 | 15 | 7 | 5 | 8 | 2 | 11 | 11 | 9 | 4 | 2 | 2 | 0 | 0 | 3 | 0 | 22 | 0 | 0 |
| Year | 8.6 | S. | 48 | W. | 5 | 83 | 43 | 32 | 135 | 265 | 56 | 44 | 61 | 9 | 135 | 168 | 62 | 55 | 45 | 3 | 4 | 1 | 5 | 98 | 45 | 31 | 0 |

### ALBANY, N. Y

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 9.3 | S. | 31 | S. | 0 | 7 | 6 | 2 | 1 | 14 | 13 | 1 | 18 | 0 | 6 | 7 | 18 | 16 | 11 | 8 | 0 | 6 | 13 | 0 | 25 | 0 | 0 |
| February | 8.6 | NW. | 33 | SE. | 0 | 2 | 9 | 2 | 7 | 12 | 2 | 2 | 20 | 0 | 5 | 13 | 10 | 13 | 10 | 8 | 0 | 0 | 7 | 0 | 25 | 0 | 0 |
| March | 9.2 | NW. | 48 | E. | 1 | 3 | 5 | 0 | 6 | 8 | 5 | 8 | 27 | 0 | 9 | 13 | 9 | 11 | 8 | 7 | 0 | 1 | 1 | 0 | 26 | 0 | 0 |
| April | 10.4 | NW. | 42 | SW. | 1 | 5 | 7 | 1 | 8 | 15 | 7 | 2 | 15 | 0 | 8 | 16 | 6 | 13 | 12 | 2 | 0 | 2 | 0 | 0 | 7 | 2 | 0 |
| May | 8.3 | S. | 32 | S. | 0 | 8 | 4 | 1 | 8 | 16 | 6 | 3 | 16 | 0 | 11 | 11 | 9 | 16 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| June | 6.5 | S. | 29 | S. | 0 | 10 | 4 | 1 | 6 | 16 | 15 | 2 | 6 | 0 | 11 | 13 | 6 | 11 | 10 | 0 | 0 | 0 | 0 | 3 | 0 | 5 | 0 |
| July | 8.0 | S. | 29 | NE. | 0 | 4 | 5 | 2 | 7 | 19 | 9 | 6 | 10 | 0 | 9 | 19 | 3 | 7 | 6 | 0 | 0 | 0 | 0 | 3 | 0 | 6 | 0 |
| August | 6.7 | S. | 30 | SE. | 0 | 5 | 6 | 2 | 9 | 20 | 5 | 1 | 14 | 0 | 8 | 17 | 6 | 12 | 9 | 0 | 0 | 1 | 0 | 2 | 0 | 2 | 0 |
| September | 7.4 | S. | 32 | SW. | 0 | 6 | 4 | 0 | 9 | 18 | 7 | 2 | 14 | 0 | 9 | 11 | 10 | 9 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| October | 6.7 | NW. | 28 | S. | 0 | 6 | 7 | 3 | 2 | 13 | 8 | 8 | 15 | 0 | 9 | 9 | 13 | 10 | 6 | 0 | 0 | 8 | 0 | 0 | 4 | 0 | 0 |
| November | 9.6 | S. | 30 | S. | 0 | 10 | 8 | 0 | 3 | 20 | 5 | 1 | 13 | 0 | 9 | 10 | 11 | 7 | 6 | 2 | 0 | 3 | 2 | 0 | 13 | 0 | 0 |
| December | 7.2 | NW. | 30 | N. | 0 | 13 | 3 | 1 | 2 | 8 | 8 | 7 | 20 | 0 | 9 | 13 | 9 | 6 | 5 | 4 | 0 | 1 | 15 | 0 | 30 | 0 | 0 |
| Year | 8.2 | NW. | 48 | E. | 2 | 79 | 68 | 15 | 68 | 179 | 90 | 43 | 188 | 0 | 103 | 152 | 110 | 131 | 103 | 31 | 0 | 23 | 38 | 8 | 130 | 21 | 0 |

### ALPENA, MICH.

[H=609 ft.; $h_t$=13 ft.; $h_r$=4 ft.; $h_a$=92 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 13.3 | SW. | 44 | W. | 1 | 4 | 2 | 4 | 4 | 10 | 13 | 8 | 16 | 1 | 3 | 10 | 18 | 11 | 6 | 8 | 0 | 5 | 19 | 0 | 26 | 0 | 1 |
| February | 12.2 | NW. | 48 | E. | 1 | 8 | 2 | 5 | 3 | 7 | 10 | 6 | 15 | 0 | 5 | 7 | 16 | 17 | 11 | 15 | 0 | 2 | 14 | 0 | 28 | 0 | 0 |
| March | 11.7 | NW. | 37 | E. | 0 | 2 | 3 | 6 | 7 | 4 | 3 | 12 | 25 | 0 | 9 | 11 | 11 | 14 | 9 | 13 | 0 | 0 | 7 | 0 | 30 | 0 | 1 |
| April | 13.7 | SE. | 52 | W. | 5 | 7 | 2 | 6 | 13 | 5 | 9 | 6 | 12 | 0 | 5 | 9 | 16 | 16 | 12 | 9 | 0 | 1 | 2 | 0 | 21 | 3 | 1 |
| May | 10.5 | SE. | 40 | E. | 1 | 4 | 8 | 9 | 10 | 6 | 6 | 6 | 13 | 0 | 10 | 11 | 10 | 8 | 6 | 2 | 0 | 1 | 0 | 0 | 5 | 3 | 4 |
| June | 8.7 | SE. | 30 | NW. | 0 | 7 | 5 | 10 | 14 | 4 | 6 | 7 | 7 | 0 | 11 | 11 | 8 | 5 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 2 |
| July | 10.3 | NW. | 38 | W. | 0 | 10 | 1 | 2 | 8 | 6 | 5 | 9 | 21 | 0 | 10 | 14 | 7 | 11 | 8 | 0 | 1 | 0 | 0 | 1 | 0 | 7 | 0 |
| August | 9.6 | NW. | 30 | NW. | 0 | 4 | 2 | 4 | 10 | 6 | 10 | 4 | 22 | 0 | 8 | 18 | 5 | 12 | 7 | 0 | 0 | 1 | 0 | 2 | 0 | 4 | 0 |
| September | 10.5 | NW. | 34 | S. | 0 | 6 | 4 | 5 | 4 | 8 | 8 | 5 | 20 | 0 | 7 | 11 | 12 | 12 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| October | 11.1 | NW. | 40 | SW. | 1 | 5 | 1 | 3 | 7 | 9 | 12 | 12 | 13 | 0 | 10 | 7 | 14 | 10 | 5 | 2 | 0 | 2 | 0 | 0 | 13 | 1 | 2 |
| November | 12.3 | SE. | 36 | SE. | 0 | 6 | 2 | 1 | 10 | 14 | 6 | 8 | 13 | 0 | 6 | 4 | 20 | 9 | 9 | 4 | 0 | 4 | 3 | 0 | 16 | 0 | 0 |
| December | 11.5 | W. | 42 | S. | 1 | 1 | 2 | 5 | 3 | 5 | 13 | 19 | 14 | 0 | 3 | 5 | 23 | 18 | 10 | 15 | 0 | 6 | 23 | 0 | 30 | 0 | 0 |
| Year | 11.3 | NW. | 52 | W. | 10 | 64 | 34 | 60 | 93 | 84 | 101 | 102 | 191 | 1 | 87 | 118 | 160 | 143 | 95 | 68 | 1 | 22 | 68 | 5 | 169 | 21 | 11 |

### AMARILLO, TEX.

[H=3,676 ft.; $h_t$=10 ft.; $h_r$=3 ft.; $h_a$=49 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 13.7 | S. | 64 | W. | 2 | 12 | 0 | 3 | 5 | 16 | 15 | 5 | 6 | 0 | 26 | 4 | 1 | 2 | 1 | 1 | 0 | 2 | 3 | 0 | 19 | 0 | 0 |
| February | 15.3 | S. | 48 | W. | 4 | 2 | 6 | 1 | 0 | 17 | 10 | 6 | 14 | 0 | 22 | 6 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 20 | 0 | 0 |
| March | 12.8 | NW. | 60 | NW. | 2 | 6 | 5 | 4 | 6 | 6 | 11 | 10 | 14 | 0 | 21 | 8 | 2 | 5 | 4 | 4 | 0 | 0 | 2 | 0 | 16 | 1 | 0 |
| April | 15.0 | S. | 46 | W. | 4 | 8 | 4 | 3 | 4 | 12 | 15 | 5 | 9 | 0 | 24 | 5 | 1 | 5 | 5 | 3 | 1 | 0 | 0 | 0 | 8 | 1 | 0 |
| May | 13.0 | S. | 52 | NW. | 4 | 5 | 7 | 5 | 7 | 16 | 7 | 6 | 9 | 0 | 21 | 9 | 1 | 8 | 5 | 0 | 0 | 0 | 0 | 2 | 1 | 7 | 0 |
| June | 12.5 | S. | 48 | E. | 2 | 2 | 4 | 5 | 21 | 18 | 5 | 2 | 3 | 0 | 13 | 15 | 2 | 14 | 13 | 0 | 1 | 0 | 0 | 11 | 0 | 14 | 0 |
| July | 11.1 | S. | 36 | S. | 0 | 2 | 2 | 7 | 18 | 28 | 5 | 0 | 0 | 0 | 15 | 16 | 0 | 8 | 6 | 0 | 0 | 0 | 0 | 18 | 0 | 2 | 0 |
| August | 10.2 | S. | 29 | N. | 0 | 3 | 5 | 4 | 19 | 22 | 7 | 1 | 1 | 0 | 12 | 17 | 2 | 6 | 5 | 0 | 0 | 0 | 0 | 21 | 0 | 4 | 0 |
| September | 14.0 | S. | 34 | N. | 0 | 6 | 2 | 7 | 10 | 25 | 7 | 1 | 2 | 0 | 18 | 11 | 1 | 4 | 3 | 0 | 0 | 0 | 0 | 5 | 0 | 1 | 0 |
| October | 12.9 | S. | 58 | W. | 2 | 14 | 0 | 1 | 2 | 20 | 8 | 7 | 10 | 0 | 20 | 7 | 4 | 4 | 3 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |
| November | 11.7 | S. | 34 | S. | 0 | 8 | 1 | 3 | 4 | 19 | 12 | 7 | 6 | 0 | 16 | 7 | 7 | 6 | 6 | 3 | 1 | 2 | 0 | 0 | 10 | 1 | 0 |
| December | 10.2 | N. | 35 | N. | 0 | 15 | 4 | 0 | 3 | 11 | 12 | 8 | 9 | 0 | 15 | 10 | 6 | 4 | 3 | 3 | 0 | 0 | 9 | 0 | 30 | 0 | 0 |
| Year | 12.4 | S. | 64 | W. | 20 | 83 | 40 | 43 | 99 | 210 | 114 | 58 | 83 | 0 | 223 | 115 | 27 | 69 | 55 | 14 | 3 | 4 | 15 | 57 | 105 | 32 | 0 |

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

ANNISTON, ALA.

[$\phi$=33° 39′ N.; $\lambda$=85° 50′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.397 | 29.628 | 28.807 | 43.5 | 48.3 | 57.7 | 39.0 | 48.4 | 75 | 10 | 39 | .... | 85 | .... | 0.260 | ..... | 2.27 | 0.76 | 8.1 | 5.8 | 6.9 |
| February | 29.302 | 29.793 | 28.873 | 43.0 | 50.7 | 60.3 | 38.5 | 49.4 | 75 | 15 | 36 | .... | 76 | .... | .241 | ..... | 8.25 | 1.89 | 5.4 | 4.4 | 5.4 |
| March | 29.176 | 29.494 | 28.825 | 47.7 | 56.4 | 63.7 | 43.4 | 53.6 | 76 | 29 | 41 | .... | 78 | .... | .272 | ..... | 11.68 | 3.01 | 6.6 | 5.9 | 6.3 |
| April | 29.300 | 29.613 | 29.014 | 56.3 | 63.7 | 72.7 | 50.2 | 61.4 | 85 | 35 | 48 | .... | 75 | .... | .361 | ..... | 12.15 | 5.46 | 6.1 | 5.4 | 6.2 |
| May | 29.199 | 29.516 | 28.914 | 63.2 | 68.7 | 77.7 | 56.4 | 67.0 | 85 | 36 | 55 | .... | 77 | .... | .457 | ..... | 4.06 | 1.12 | 5.8 | 6.8 | 6.4 |
| June | 29.248 | 29.430 | 29.056 | 73.7 | 75.7 | 85.9 | 67.2 | 76.6 | 92 | 60 | 67 | .... | 81 | .... | .672 | ..... | 7.69 | 1.27 | 5.4 | 7.7 | 7.1 |
| July | 29.241 | 29.460 | 29.060 | 73.9 | 78.1 | 87.4 | 67.8 | 77.6 | 95 | 55 | 68 | .... | 82 | .... | .688 | ..... | 4.65 | 1.50 | 6.9 | 6.9 | 6.9 |
| August | 29.248 | 29.465 | 28.962 | 73.8 | 78.3 | 89.0 | 68.6 | 78.8 | 97 | 59 | 68 | .... | 82 | .... | .689 | ..... | 3.57 | .88 | 4.7 | 5.4 | 5.1 |
| September | 29.289 | 29.406 | 29.127 | 66.5 | 72.5 | 83.4 | 63.3 | 73.4 | 90 | 40 | 61 | .... | 83 | .... | .559 | ..... | 1.19 | .58 | 5.2 | 4.5 | 5.7 |
| October | 29.374 | 29.596 | 29.078 | 52.3 | 60.2 | 75.8 | 47.0 | 61.4 | 89 | 28 | 46 | .... | 80 | .... | .327 | ..... | 1.48 | .67 | 2.2 | 2.0 | 2.5 |
| November | 29.457 | 29.730 | 29.091 | 48.8 | 56.8 | 71.3 | 46.7 | 59.0 | 82 | 27 | 43 | .... | 82 | .... | .298 | ..... | 1.69 | 1.00 | 3.5 | 1.9 | 3.5 |
| December | 29.309 | 29.651 | 29.037 | 33.5 | 39.7 | 49.0 | 29.0 | 39.0 | 73 | 9 | 27 | .... | 76 | .... | .161 | ..... | 5.56 | 2.26 | 6.0 | 4.8 | 5.5 |
| Year | 29.295 | 29.793 | 28.807 | 56.4 | 62.4 | 72.8 | 51.4 | 62.1 | 97 | 9 | 50 | .... | 80 | .... | .415 | ..... | 64.24 | 5.46 | 5.5 | 5.1 | 5.6 |

ASHEVILLE, N. C.

[$\phi$=35° 36′ N.; $\lambda$=82° 32′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 27.765 | 28.001 | 27.063 | 36.7 | 43.1 | 52.2 | 32.7 | 42.4 | 71 | 2 | 33 | 36 | 87 | 77 | 0.202 | 0.233 | 1.58 | 0.78 | 6.4 | 5.2 | 6.2 |
| February | 27.652 | 28.083 | 27.261 | 37.2 | 45.2 | 54.4 | 31.6 | 43.0 | 68 | 4 | 32 | 36 | 83 | 72 | .203 | .227 | 3.60 | .76 | 5.2 | 4.2 | 4.7 |
| March | 27.553 | 27.909 | 27.093 | 38.7 | 46.4 | 54.7 | 34.7 | 44.7 | 67 | 25 | 34 | 36 | 82 | 68 | .201 | .219 | 5.05 | 1.03 | 5.8 | 5.3 | 5.5 |
| April | 27.711 | 28.106 | 27.371 | 50.2 | 58.2 | 66.9 | 45.5 | 56.2 | 86 | 30 | 44 | 48 | 80 | 70 | .306 | .355 | 3.75 | 2.20 | 5.6 | 4.5 | 5.2 |
| May | 27.638 | 27.891 | 27.386 | 56.1 | 62.7 | 72.3 | 50.0 | 61.2 | 83 | 31 | 51 | 55 | 85 | 77 | .390 | .437 | 7.75 | 3.28 | 5.0 | 5.0 | 5.4 |
| June | 27.723 | 27.970 | 27.433 | 66.1 | 70.3 | 80.7 | 61.8 | 71.2 | 88 | 53 | 63 | 67 | 92 | 90 | .586 | .670 | 7.74 | 2.69 | 5.9 | 7.3 | 7.0 |
| July | 27.715 | 27.979 | 27.465 | 65.5 | 71.0 | 79.4 | 60.5 | 70.0 | 87 | 52 | 63 | 67 | 91 | 88 | .572 | .669 | 5.54 | 1.28 | 5.9 | 6.2 | 5.9 |
| August | 27.747 | 27.970 | 27.389 | 65.1 | 72.1 | 81.7 | 61.4 | 71.6 | 90 | 47 | 62 | 65 | 92 | 79 | .572 | .623 | 4.58 | 2.93 | 4.1 | 4.3 | 4.3 |
| September | 27.785 | 27.951 | 27.652 | 58.3 | 65.0 | 73.5 | 55.3 | 64.4 | 83 | 35 | 55 | 57 | 90 | 76 | .456 | .480 | 2.59 | 1.27 | 5.6 | 3.4 | 4.8 |
| October | 27.796 | 28.070 | 27.445 | 43.6 | 54.7 | 65.8 | 39.8 | 52.8 | 77 | 25 | 40 | 42 | 87 | 63 | .255 | .275 | 3.28 | 2.04 | 3.1 | 2.2 | 2.6 |
| November | 27.874 | 28.187 | 27.369 | 42.3 | 53.3 | 63.8 | 38.3 | 51.0 | 75 | 21 | 37 | 39 | 83 | 60 | .237 | .253 | .07 | .04 | 4.5 | 2.1 | 3.2 |
| December | 27.633 | 27.931 | 27.239 | 25.7 | 33.4 | 42.9 | 22.5 | 32.7 | 66 | 3 | 23 | 26 | 90 | 75 | .131 | .151 | 3.19 | 1.41 | 4.5 | 2.7 | 4.0 |
| Year | 27.716 | 28.187 | 27.063 | 48.8 | 56.3 | 65.7 | 44.5 | 55.1 | 90 | 2 | 45 | 48 | 87 | 75 | .343 | .383 | 48.72 | 3.28 | 5.1 | 4.4 | 4.9 |

ATLANTA, GA.

[$\phi$=33° 45′ N.; $\lambda$=84° 23′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 28.925 | 29.156 | 28.276 | 42.6 | 48.0 | 53.9 | 38.3 | 46.1 | 72 | 8 | 38 | 40 | 85 | 75 | 0.252 | 0.263 | 1.82 | 0.96 | 5.5 | 3.9 | 5.9 |
| February | 28.829 | 29.229 | 28.417 | 42.6 | 51.3 | 58.7 | 39.6 | 49.2 | 76 | 14 | 34 | 37 | 72 | 62 | .223 | .246 | 8.07 | 2.11 | 5.0 | 3.7 | 4.8 |
| March | 28.703 | 29.035 | 28.316 | 46.4 | 55.6 | 61.2 | 43.2 | 52.2 | 71 | 30 | 39 | 43 | 76 | 64 | .251 | .293 | 9.09 | 2.29 | 5.4 | 5.5 | 5.4 |
| April | 28.836 | 29.221 | 28.432 | 55.3 | 65.2 | 70.7 | 51.8 | 61.2 | 82 | 38 | 47 | 47 | 75 | 54 | .345 | .338 | 5.77 | 2.36 | 5.5 | 3.9 | 5.0 |
| May | 28.745 | 29.027 | 28.454 | 62.8 | 69.6 | 76.1 | 58.2 | 67.2 | 86 | 39 | 54 | 55 | 74 | 62 | .431 | .450 | 2.11 | .69 | 5.5 | 5.5 | 5.3 |
| June | 28.808 | 29.030 | 28.520 | 72.6 | 76.7 | 85.2 | 68.2 | 76.7 | 92 | 64 | 66 | 66 | 80 | 72 | .642 | .651 | 4.43 | 1.27 | 5.7 | 6.9 | 6.2 |
| July | 28.802 | 29.040 | 28.540 | 72.1 | 78.5 | 85.4 | 68.9 | 77.2 | 92 | 62 | 67 | 67 | 86 | 69 | .676 | .664 | 2.52 | .82 | 7.1 | 5.9 | 5.2 |
| August | 28.811 | 29.036 | 28.469 | 72.6 | 79.9 | 86.1 | 69.6 | 77.8 | 95 | 64 | '66 | 68 | 80 | 68 | .646 | .682 | 6.75 | 2.49 | 4.1 | 4.4 | 4.7 |
| September | 28.847 | 28.987 | 28.728 | 65.7 | 73.0 | 79.7 | 63.7 | 71.7 | 88 | 46 | 59 | 61 | 81 | 68 | .533 | .557 | 1.65 | .62 | 6.1 | 5.1 | 4.7 |
| October | 28.911 | 29.153 | 28.526 | 54.2 | 64.1 | 71.0 | 51.6 | 61.3 | 85 | 35 | 45 | 47 | 72 | 56 | .309 | .341 | 1.63 | .76 | 2.7 | 1.1 | 2.5 |
| November | 28.989 | 29.308 | 28.539 | 51.5 | 60.3 | 67.3 | 49.1 | 58.2 | 78 | 30 | 43 | 45 | 74 | 60 | .295 | .318 | 1.48 | 1.10 | 3.6 | 1.6 | 3.1 |
| December | 28.817 | 29.097 | 28.478 | 33.8 | 39.8 | 46.7 | 29.7 | 38.2 | 71 | 10 | 28 | 31 | 77 | 72 | .169 | .186 | 3.51 | 1.12 | 5.5 | 4.5 | 5.4 |
| Year | 28.835 | 29.308 | 28.276 | 56.0 | 63.5 | 70.2 | 52.7 | 61.4 | 95 | 8 | 49 | 51 | 78 | 65 | .398 | .416 | 48.83 | 2.49 | 5.1 | 4.3 | 4.8 |

ATLANTIC CITY, N. J.

[$\phi$=39° 22′ N.; $\lambda$=74° 25′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 30.085 | 30.564 | 29.138 | 34.9 | 37.6 | 44.6 | 29.6 | 37.1 | 64 | 11 | 30 | 30 | 83 | 75 | 0.178 | 0.181 | 3.29 | 1.12 | 7.2 | 5.3 | 6.9 |
| February | 29.922 | 30.389 | 29.352 | 36.9 | 40.8 | 46.2 | 33.2 | 39.7 | 61 | 11 | 30 | 33 | 76 | 75 | .180 | .203 | 3.75 | 1.33 | 6.2 | 5.7 | 6.4 |
| March | 29.803 | 30.436 | 28.918 | 37.0 | 40.9 | 46.3 | 32.3 | 39.3 | 57 | 23 | 30 | 31 | 75 | 68 | .174 | .177 | 3.58 | 1.09 | 4.5 | 3.9 | 5.6 |
| April | 30.011 | 30.605 | 29.637 | 47.7 | 49.6 | 55.2 | 43.0 | 49.1 | 71 | 26 | 40 | 41 | 77 | 76 | .264 | .271 | 4.54 | 2.26 | 5.9 | 6.1 | 6.1 |
| May | 29.884 | 30.198 | 29.555 | 57.9 | 58.3 | 65.3 | 52.0 | 58.6 | 85 | 42 | 50 | 50 | 77 | 77 | .369 | .373 | 4.13 | 2.05 | 6.7 | 6.0 | 6.2 |
| June | 29.931 | 30.217 | 29.635 | 67.7 | 66.6 | 74.2 | 62.1 | 68.2 | 91 | 51 | 60 | 61 | 79 | 83 | .544 | .548 | 2.49 | 1.14 | 7.7 | 7.4 | 7.1 |
| July | 29.899 | 30.195 | 29.511 | 70.8 | 71.1 | 78.8 | 64.7 | 71.8 | 92 | 52 | 61 | 63 | 74 | 76 | .557 | .582 | 1.37 | .78 | 4.6 | 4.5 | 4.9 |
| August | 29.966 | 30.264 | 29.438 | 69.7 | 70.9 | 76.6 | 65.2 | 70.9 | 86 | 55 | 61 | 62 | 74 | 75 | .542 | .569 | 2.95 | 2.40 | 4.2 | 5.6 | 5.1 |
| September | 30.055 | 30.373 | 29.800 | 65.1 | 65.7 | 71.9 | 60.0 | 66.0 | 83 | 46 | 58 | 57 | 78 | 76 | .496 | .490 | 3.61 | 1.51 | 6.9 | 3.6 | 5.8 |
| October | 30.035 | 30.510 | 29.598 | 50.4 | 54.2 | 61.3 | 45.2 | 53.2 | 76 | 30 | 42 | 44 | 72 | 69 | .280 | .310 | 1.82 | .60 | 3.4 | 4.3 | 3.8 |
| November | 30.132 | 30.622 | 29.516 | 46.7 | 47.8 | 54.4 | 42.0 | 48.2 | 73 | 29 | 39 | 38 | 76 | 71 | .257 | .251 | 1.93 | 1.04 | 4.9 | 2.6 | 5.0 |
| December | 29.899 | 30.429 | 28.909 | 28.3 | 32.2 | 38.5 | 24.8 | 31.6 | 57 | 7 | 22 | 23 | 76 | 67 | .121 | .133 | 3.88 | 2.21 | 6.0 | 3.9 | 5.0 |
| Year | 29.968 | 30.622 | 28.909 | 51.1 | 53.0 | 59.4 | 46.2 | 52.8 | 92 | 7 | 44 | 44 | 76 | 74 | .330 | .341 | 37.34 | 2.40 | 5.7 | 4.9 | 5.7 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

## ANNISTON, ALA.

[H=741 ft.; $h_t$=9 ft.; $h_r$=3 ft.; $h_a$=57 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | Precipitation. 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | Maximum temp. 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Aurora. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 7.3 | SE. | 35 | W. | 0 | 8 | 1 | 3 | 17 | 9 | 6 | 1 | 15 | 2 | 7 | 5 | 19 | 9 | 7 | 0 | 0 | 0 | 2 | 0 | 9 | 0 | 0 |
| February | 8.2 | SE. | 31 | W. | 0 | 9 | 1 | 3 | 15 | 11 | 5 | 6 | 5 | 1 | 11 | 4 | 13 | 12 | 12 | 0 | 1 | 0 | 0 | 0 | 11 | 8 | 0 |
| March | 7.6 | N. | 36 | SW. | 0 | 18 | 0 | 2 | 11 | 13 | 3 | 3 | 12 | 0 | 9 | 6 | 16 | 14 | 13 | 0 | 0 | 0 | 0 | 0 | 3 | 7 | 0 |
| April | 6.9 | SE. | 31 | SW. | 0 | 15 | 1 | 3 | 16 | 15 | 3 | 1 | 6 | 0 | 9 | 4 | 17 | 10 | 8 | 0 | 1 | 0 | 0 | 0 | 0 | 6 | 0 |
| May | 5.2 | SE. | 33 | NW. | 0 | 5 | 5 | 1 | 19 | 13 | 5 | 4 | 9 | 1 | 7 | 12 | 12 | 15 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 |
| June | 4.4 | SE. | 30 | W. | 0 | 3 | 5 | 4 | 17 | 11 | 4 | 6 | 7 | 3 | 2 | 15 | 13 | 18 | 16 | 0 | 0 | 0 | 0 | 6 | 0 | 20 | 0 |
| July | 4.5 | SE. | 35 | NW. | 0 | 10 | 8 | 5 | 17 | 10 | 5 | 2 | 5 | 0 | 8 | 6 | 17 | 11 | 9 | 0 | 0 | 0 | 0 | 9 | 0 | 10 | 0 |
| August | 4.4 | SE. | 21 | E. | 0 | 5 | 6 | 14 | 13 | 9 | 3 | 4 | 4 | 4 | 12 | 8 | 11 | 12 | 12 | 0 | 0 | 0 | 1 | 13 | 0 | 12 | 0 |
| September | 5.9 | SE. | 25 | SE. | 0 | 12 | 4 | 11 | 15 | 7 | 1 | 0 | 6 | 4 | 10 | 6 | 14 | 10 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 9 | 0 |
| October | 5.5 | SE. | 27 | W. | 0 | 9 | 8 | 1 | 16 | 9 | 5 | 0 | 5 | 9 | 24 | 2 | 5 | 4 | 3 | 0 | 0 | 2 | 0 | 0 | 1 | 3 | 0 |
| November | 5.9 | SE. | 30 | W. | 0 | 12 | 0 | 0 | 18 | 18 | 2 | 0 | 3 | 7 | 18 | 6 | 6 | 4 | 2 | 0 | 0 | 1 | 0 | 0 | 4 | 1 | 0 |
| December | 7.1 | N. | 28 | W. | 0 | 22 | 0 | 0 | 16 | 6 | 1 | 4 | 11 | 2 | 11 | 7 | 13 | 12 | 11 | 1 | 0 | 1 | 2 | 0 | 23 | 1 | 0 |
| Year | 6.1 | SE. | 36 | SW. | 0 | 128 | 39 | 47 | 190 | 131 | 43 | 31 | 88 | 33 | 128 | 81 | 156 | 131 | 112 | 1 | 2 | 6 | 4 | 28 | 51 | 88 | 0 |

## ASHEVILLE, N. C.

[H=2,255 ft.; $h_t$=53 ft.; $h_r$=46 ft.; $h_a$=75 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 9.2 | SE. | 38 | NW. | 0 | 7 | 3 | 1 | 29 | 6 | 0 | 0 | 16 | 0 | 10 | 9 | 12 | 11 | 5 | 2 | 0 | 3 | 2 | 0 | 15 | 0 | 0 |
| February | 10.9 | SE. | 36 | NW. | 0 | 10 | 0 | 1 | 19 | 2 | 1 | 5 | 18 | 0 | 15 | 3 | 10 | 12 | 10 | 2 | 0 | 0 | 0 | 0 | 18 | 3 | 0 |
| March | 10.3 | NW. | 37 | NW. | 0 | 15 | 3 | 2 | 13 | 3 | 3 | 1 | 21 | 1 | 12 | 5 | 14 | 15 | 14 | 2 | 0 | 1 | 0 | 0 | 13 | 5 | 0 |
| April | 9.4 | SE. | 35 | SE. | 0 | 10 | 0 | 0 | 21 | 6 | 2 | 5 | 15 | 1 | 12 | 8 | 10 | 10 | 8 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 0 |
| May | 7.0 | SE. | 30 | NW. | 0 | 11 | 1 | 5 | 22 | 5 | 1 | 3 | 13 | 1 | 10 | 14 | 7 | 14 | 13 | 0 | 0 | 2 | 0 | 0 | 1 | 7 | 0 |
| June | 5.5 | SE. | 28 | E. | 0 | 12 | 0 | 5 | 22 | 4 | 0 | 3 | 13 | 1 | 2 | 12 | 16 | 21 | 17 | 0 | 0 | 4 | 0 | 0 | 0 | 16 | 0 |
| July | 5.5 | NW. | 27 | N. | 0 | 11 | 1 | 2 | 17 | 7 | 2 | 3 | 17 | 2 | 9 | 10 | 12 | 15 | 12 | 0 | 0 | 1 | 0 | 0 | 0 | 7 | 0 |
| August | 5.0 | SE. | 30 | NW. | 0 | 11 | 0 | 6 | 25 | 5 | 2 | 2 | 10 | 1 | 12 | 12 | 7 | 12 | 9 | 0 | 0 | 5 | 0 | 1 | 0 | 6 | 0 |
| September | 6.5 | SE. | 26 | E. | 0 | 9 | 2 | 6 | 26 | 2 | 0 | 0 | 15 | 0 | 11 | 12 | 7 | 9 | 7 | 0 | 0 | 4 | 0 | 0 | 0 | 3 | 0 |
| October | 6.6 | NW. | 33 | NW. | 0 | 8 | 0 | 1 | 13 | 11 | 5 | 0 | 19 | 5 | 22 | 5 | 4 | 5 | 4 | 0 | 0 | 3 | 0 | 0 | 4 | 3 | 0 |
| November | 7.9 | SE. | 30 | NW. | 0 | 7 | 0 | 1 | 22 | 11 | 0 | 2 | 13 | 4 | 20 | 7 | 3 | 4 | 1 | 0 | 0 | 2 | 0 | 0 | 11 | 1 | 0 |
| December | 9.4 | NW. | 42 | NW. | 1 | 14 | 0 | 1 | 6 | 7 | 2 | 0 | 31 | 1 | 16 | 9 | 6 | 10 | 7 | 3 | 0 | 2 | 7 | 0 | 26 | 0 | 0 |
| Year | 7.8 | SE. | 42 | NW. | 1 | 125 | 10 | 31 | 235 | 69 | 18 | 24 | 201 | 17 | 151 | 106 | 108 | 138 | 107 | 9 | 0 | 27 | 9 | 1 | 92 | 53 | 0 |

## ATLANTA, GA.

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 13.1 | E. | 60 | NW. | 3 | 0 | 4 | 18 | 10 | 4 | 2 | 6 | 18 | 0 | 11 | 6 | 14 | 7 | 6 | 0 | 0 | 11 | 2 | 0 | 7 | 0 | 0 |
| February | 15.4 | W. | 52 | NW. | 3 | 0 | 2 | 2 | 15 | 6 | 5 | 14 | 12 | 0 | 13 | 4 | 11 | 10 | 9 | 0 | 2 | 0 | 0 | 0 | 6 | 6 | 0 |
| March | 11.8 | NW. | 66 | NW. | 5 | 0 | 1 | 5 | 9 | 5 | 4 | 10 | 26 | 2 | 10 | 11 | 10 | 14 | 12 | 0 | 0 | 2 | 0 | 0 | 1 | 6 | 0 |
| April | 10.5 | S. | 40 | W. | 1 | 0 | 3 | 12 | 12 | 7 | 5 | 8 | 11 | 2 | 13 | 6 | 11 | 10 | 9 | 0 | 0 | 2 | 0 | 0 | 0 | 4 | 0 |
| May | 9.7 | SE. | 38 | W. | 0 | 2 | 1 | 9 | 13 | 5 | 8 | 15 | 9 | 0 | 12 | 7 | 12 | 13 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 |
| June | 9.3 | E. | 30 | W. | 0 | 1 | 3 | 15 | 10 | 7 | 6 | 10 | 8 | 0 | 8 | 10 | 12 | 13 | 12 | 0 | 0 | 0 | 0 | 2 | 0 | 14 | 0 |
| July | 9.3 | E. | 48 | W. | 1 | 2 | 2 | 11 | 4 | 6 | 10 | 11 | 9 | 1 | 11 | 12 | 8 | 9 | 8 | 0 | 0 | 0 | 0 | 6 | 0 | 9 | 0 |
| August | 8.1 | NE. | 28 | SW. | 0 | 2 | 16 | 14 | 5 | 4 | 6 | 9 | 6 | 0 | 14 | 7 | 10 | 13 | 11 | 0 | 1 | 0 | 0 | 0 | 0 | 11 | 0 |
| September | 9.8 | NE. | 29 | E. | 0 | 2 | 15 | 17 | 6 | 3 | 2 | 4 | 10 | 1 | 13 | 9 | 8 | 8 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| October | 9.9 | W. | 56 | W. | 2 | 1 | 15 | 9 | 6 | 6 | 1 | 15 | 7 | 2 | 24 | 3 | 4 | 6 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | 2 | 0 |
| November | 11.5 | E. | 52 | SW. | 1 | 1 | 12 | 13 | 13 | 1 | 2 | 9 | 9 | 0 | 19 | 6 | 5 | 5 | 5 | 0 | 1 | 3 | 0 | 0 | 2 | 2 | 0 |
| December | 14.6 | W. | 50 | NW. | 3 | 0 | 2 | 7 | 5 | 5 | 7 | 20 | 16 | 0 | 13 | 5 | 13 | 9 | 9 | 0 | 0 | 1 | 2 | 0 | 22 | 0 | 0 |
| Year | 11.1 | NW. | 66 | NW. | 19 | 11 | 82 | 132 | 108 | 59 | 58 | 131 | 141 | 8 | 161 | 86 | 118 | 117 | 101 | 0 | 5 | 20 | 4 | 14 | 38 | 66 | 0 |

## ATLANTIC CITY, N. J.

[H=52 ft.; $h_t$=37 ft.; $h_r$=33 ft.; $h_a$=48 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 9.0 | NW. | 30 | SE. | 0 | 12 | 6 | 1 | 3 | 4 | 14 | 6 | 16 | 0 | 7 | 6 | 18 | 13 | 9 | 4 | 0 | 4 | 2 | 0 | 21 | 0 | 0 |
| February | 10.2 | NW. | 37 | SE. | 0 | 1 | 6 | 1 | 4 | 7 | 12 | 10 | 15 | 0 | 7 | 10 | 11 | 13 | 10 | 2 | 0 | 2 | 1 | 0 | 12 | 1 | 0 |
| March | 9.9 | NW. | 43 | NE. | 1 | 5 | 4 | 1 | 3 | 10 | 4 | 6 | 29 | 0 | 11 | 9 | 11 | 14 | 10 | 2 | 0 | 1 | 0 | 0 | 15 | 0 | 0 |
| April | 9.8 | S. | 32 | S. | 0 | 6 | 8 | 1 | 7 | 15 | 10 | 4 | 9 | 0 | 8 | 9 | 13 | 13 | 12 | 0 | 0 | 1 | 0 | 0 | 2 | 5 | 0 |
| May | 9.8 | SW. | 38 | NE. | 0 | 3 | 11 | 5 | 4 | 7 | 14 | 10 | 8 | 0 | 6 | 11 | 14 | 6 | 5 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 |
| June | 7.0 | SW. | 25 | NE. | 0 | 3 | 6 | 3 | 8 | 11 | 20 | 4 | 5 | 0 | 5 | 10 | 15 | 17 | 12 | 0 | 0 | 1 | 0 | 2 | 0 | 4 | 0 |
| July | 7.0 | SW. | 25 | SE. | 0 | 6 | 5 | 4 | 5 | 11 | 22 | 3 | 6 | 0 | 12 | 10 | 9 | 9 | 7 | 0 | 0 | 4 | 0 | 1 | 0 | 5 | 0 |
| August | 8.0 | SW. | 36 | SE. | 0 | 11 | 8 | 5 | 9 | 5 | 12 | 6 | 6 | 0 | 14 | 5 | 12 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| September | 8.5 | S. | 26 | S. | 0 | 12 | 4 | 9 | 5 | 11 | 7 | 5 | 7 | 0 | 8 | 7 | 15 | 5 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| October | 7.6 | NW. | 29 | SW. | 0 | 11 | 2 | 2 | 2 | 3 | 6 | 13 | 23 | 0 | 17 | 8 | 6 | 10 | 7 | 0 | 0 | 3 | 0 | 0 | 2 | 2 | 0 |
| November | 9.4 | NW. | 36 | NE. | 0 | 9 | 7 | 4 | 2 | 2 | 12 | 11 | 13 | 0 | 13 | 6 | 11 | 9 | 7 | 0 | 0 | 1 | 0 | 0 | 5 | 1 | 0 |
| December | 8.9 | NW. | 38 | SE. | 0 | 6 | 4 | 0 | 3 | 2 | 1 | 17 | 29 | 0 | 12 | 8 | 11 | 6 | 5 | 4 | 0 | 0 | 9 | 0 | 25 | 0 | 0 |
| Year | 8.8 | NW. | 43 | NE. | 1 | 85 | 71 | 36 | 55 | 88 | 134 | 95 | 166 | 0 | 120 | 99 | 146 | 120 | 91 | 12 | 0 | 20 | 12 | 3 | 82 | 22 | 0 |

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

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

AUGUSTA, GA.

[$\phi$=33° 28′ N.; $\lambda$=81° 54′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | Extremes. | | | Dew point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.982 | 30.252 | 29.308 | 43.9 | 52.6 | 59.8 | 40.6 | 50.2 | 77 | 16 | 40 | 42 | 87 | 71 | 0.266 | 0.298 | 0.99 | 0.46 | 4.4 | 3.5 | 6.0 |
| February | 29.896 | 30.348 | 29.416 | 45.2 | 56.8 | 64.4 | 41.6 | 53.0 | 81 | 18 | 38 | 39 | 78 | 53 | .261 | .262 | 6.49 | 2.10 | 4.2 | 2.9 | 4.1 |
| March | 29.747 | 30.109 | 29.258 | 48.9 | 59.0 | 65.9 | 45.8 | 55.8 | 84 | 33 | 43 | 41 | 82 | 55 | .296 | .279 | 5.64 | 2.43 | 6.3 | 3.5 | 5.1 |
| April | 29.888 | 30.320 | 29.500 | 57.9 | 68.9 | 75.2 | 54.1 | 64.6 | 86 | 36 | 50 | 50 | 77 | 54 | .386 | .379 | 1.40 | .48 | 5.2 | 5.5 | 5.0 |
| May | 29.770 | 30.052 | 29.469 | 66.1 | 73.6 | 80.8 | 60.3 | 70.6 | 93 | 45 | 58 | 56 | 75 | 56 | .497 | .463 | 3.43 | 1.73 | 4.9 | 6.0 | 5.7 |
| June | 29.820 | 30.051 | 29.552 | 75.4 | 79.9 | 88.3 | 70.6 | 79.4 | 93 | 66 | 70 | 69 | 83 | 70 | .724 | .707 | 5.19 | 1.71 | 4.5 | 7.4 | 6.2 |
| July | 29.802 | 30.070 | 29.468 | 74.9 | 80.5 | 88.3 | 70.7 | 79.5 | 96 | 64 | 69 | 68 | 82 | 68 | .711 | .694 | 2.63 | 1.28 | 5.4 | 6.5 | 5.8 |
| August | 29.808 | 30.052 | 29.387 | 74.3 | 79.9 | 88.9 | 70.6 | 79.8 | 95 | 65 | 69 | 70 | 84 | 72 | .713 | .733 | 4.90 | 1.62 | 4.4 | 4.8 | 4.5 |
| September | 29.860 | 30.053 | 29.699 | 67.7 | 74.2 | 83.0 | 65.4 | 74.2 | 92 | 44 | 61 | 62 | 81 | 68 | .573 | .590 | 1.30 | .53 | 5.2 | 6.2 | 5.7 |
| October | 29.938 | 30.217 | 29.547 | 53.2 | 64.0 | 73.5 | 50.0 | 61.8 | 87 | 36 | 48 | 50 | 84 | 63 | .351 | .384 | 2.73 | 1.32 | 1.5 | 2.0 | 2.4 |
| November | 30.036 | 30.367 | 29.524 | 49.2 | 60.4 | 71.0 | 46.2 | 58.6 | 83 | 29 | 46 | 47 | 88 | 63 | .325 | .340 | .62 | .61 | 3.1 | 1.5 | 3.3 |
| December | 29.877 | 30.192 | 29.566 | 37.1 | 45.7 | 53.1 | 33.0 | 43.0 | 71 | 13 | 33 | 36 | 84 | 71 | .202 | .230 | 1.98 | .72 | 4.3 | 4.0 | 4.7 |
| Year | 29.869 | 30.367 | 29.258 | 57.8 | 66.3 | 74.4 | 54.1 | 64.2 | 96 | 13 | 52 | 52 | 82 | 64 | .442 | .447 | 37.30 | 2.43 | 4.4 | 4.5 | 4.9 |

BAKER CITY, OREG.

[$\phi$=44° 46′ N.; $\lambda$=117° 50′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 26.273 | 26.708 | 25.565 | 27.6 | 32.0 | 37.5 | 23.1 | 30.3 | 50 | − 3 | 22 | 25 | 80 | 74 | 0.130 | 0.139 | 1.61 | 0.34 | 5.4 | 7.4 | 7.3 |
| February | 26.339 | 26.646 | 25.974 | 31.6 | 36.8 | 40.6 | 28.3 | 34.4 | 50 | 19 | 26 | 29 | 79 | 73 | .140 | .159 | 1.35 | .43 | 7.0 | 7.8 | 7.1 |
| March | 26.378 | 26.619 | 26.053 | 32.9 | 47.4 | 50.8 | 30.5 | 40.6 | 62 | 21 | 27 | 34 | 78 | 59 | .147 | .193 | .86 | .31 | 4.0 | 6.5 | 5.7 |
| April | 26.473 | 26.921 | 26.189 | 31.9 | 51.1 | 53.2 | 29.5 | 41.4 | 64 | 21 | 25 | 32 | 74 | 49 | .134 | .183 | .25 | .07 | 3.4 | 4.2 | 4.6 |
| May | 26.400 | 26.712 | 26.153 | 38.6 | 57.2 | 60.5 | 36.4 | 48.4 | 81 | 27 | 31 | 41 | 74 | 56 | .174 | .270 | 1.47 | .77 | 5.2 | 4.5 | 5.1 |
| June | 26.427 | 26.577 | 26.164 | 49.0 | 60.5 | 72.0 | 47.5 | 59.8 | 92 | 38 | 41 | 52 | 74 | 55 | .259 | .392 | 1.66 | 1.24 | 4.4 | 4.2 | 4.4 |
| July | 26.426 | 26.657 | 26.062 | 50.7 | 74.7 | 77.4 | 49.3 | 63.4 | 94 | 38 | 41 | 53 | 70 | 49 | .257 | .411 | .64 | .33 | 2.2 | 3.0 | 3.0 |
| August | 26.437 | 26.616 | 26.236 | 51.0 | 79.2 | 82.5 | 48.7 | 65.6 | 97 | 38 | 38 | 51 | 61 | 40 | .227 | .378 | .01 | .01 | .8 | 1.7 | 1.5 |
| September | 26.488 | 26.743 | 26.191 | 48.1 | 66.5 | 70.4 | 45.6 | 58.0 | 86 | 31 | 40 | 44 | 74 | 48 | .254 | .301 | 1.59 | 1.01 | 4.8 | 5.2 | 4.8 |
| October | 26.498 | 26.811 | 26.090 | 39.3 | 56.5 | 60.9 | 36.3 | 48.6 | 76 | 27 | 32 | 38 | 74 | 52 | .179 | .238 | .57 | .16 | 3.2 | 5.0 | 4.6 |
| November | 26.423 | 26.829 | 26.082 | 35.5 | 41.0 | 45.4 | 31.3 | 38.4 | 66 | 7 | 30 | 31 | 80 | 68 | .171 | .177 | 1.90 | .86 | 6.0 | 7.3 | 7.2 |
| December | 26.496 | 26.955 | 25.814 | 17.0 | 21.9 | 26.9 | 11.2 | 19.0 | 39 | − 6 | 14 | 18 | 86 | 83 | .082 | .096 | 1.64 | .41 | 5.6 | 6.1 | 6.6 |
| Year | 26.421 | 26.955 | 25.565 | 37.8 | 52.8 | 56.5 | 34.8 | 45.7 | 97 | − 6 | 31 | 37 | 75 | 59 | .180 | .245 | 13.55 | 1.24 | 4.3 | 5.2 | 5.2 |

BALTIMORE, MD.

[$\phi$=39° 17′ N.; $\lambda$=76° 37′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 30.035 | 30.529 | 29.093 | 32.8 | 36.9 | 42.2 | 29.1 | 35.6 | 61 | 12 | 27 | 28 | 78 | 71 | 0.156 | 0.163 | 2.78 | 1.25 | 6.7 | 5.1 | 7.3 |
| February | 29.848 | 30.355 | 29.156 | 38.9 | 43.6 | 50.8 | 34.3 | 42.6 | 70 | 17 | 32 | 32 | 75 | 66 | .196 | .196 | 3.25 | .94 | 6.5 | 5.8 | 6.6 |
| March | 29.758 | 30.372 | 28.812 | 38.5 | 43.6 | 49.3 | 34.2 | 41.8 | 74 | 24 | 30 | 31 | 72 | 63 | .178 | .178 | 4.58 | 2.33 | 6.2 | 4.3 | 6.3 |
| April | 29.939 | 30.566 | 29.530 | 49.6 | 56.2 | 62.8 | 45.0 | 53.9 | 89 | 28 | 40 | 43 | 72 | 63 | .261 | .293 | 2.18 | 1.13 | 6.1 | 5.6 | 6.0 |
| May | 29.810 | 30.145 | 29.382 | 61.2 | 66.5 | 73.8 | 55.2 | 64.5 | 90 | 41 | 51 | 51 | 71 | 60 | .384 | .391 | 4.59 | 2.17 | 6.1 | 4.3 | 5.4 |
| June | 29.858 | 30.139 | 29.551 | 72.1 | 75.1 | 81.5 | 66.7 | 74.1 | 94 | 56 | 62 | 63 | 73 | 68 | .579 | .585 | 4.38 | .84 | 6.2 | 6.2 | 6.8 |
| July | 29.827 | 30.122 | 29.539 | 72.9 | 77.9 | 84.7 | 67.4 | 76.0 | 94 | 58 | 60 | 59 | 65 | 54 | .526 | .521 | 1.31 | .96 | 4.2 | 3.8 | 4.5 |
| August | 29.893 | 30.206 | 29.429 | 70.7 | 75.8 | 82.9 | 65.8 | 74.4 | 98 | 58 | 61 | 60 | 72 | 59 | .539 | .527 | .86 | .61 | 4.2 | 4.0 | 4.9 |
| September | 29.979 | 30.295 | 29.745 | 64.0 | 68.9 | 75.8 | 59.6 | 67.7 | 82 | 47 | 56 | 55 | 76 | 62 | .465 | .452 | 3.97 | 2.35 | 5.2 | 4.0 | 4.9 |
| October | 29.974 | 30.463 | 29.503 | 50.1 | 55.8 | 63.5 | 46.0 | 54.8 | 80 | 35 | 39 | 42 | 65 | 60 | .248 | .281 | 1.03 | .70 | 4.0 | 2.8 | 4.1 |
| November | 30.070 | 30.562 | 29.485 | 47.2 | 51.9 | 60.2 | 42.8 | 51.5 | 78 | 32 | 39 | 38 | 72 | 60 | .249 | .244 | 1.15 | .43 | 4.8 | 3.7 | 5.0 |
| December | 29.862 | 30.348 | 29.107 | 30.2 | 34.3 | 39.4 | 27.1 | 33.2 | 62 | 9 | 21 | 23 | 69 | 62 | .118 | .131 | 4.62 | 3.16 | 5.3 | 3.1 | 4.6 |
| Year | 29.904 | 30.566 | 28.812 | 52.4 | 57.2 | 63.9 | 47.8 | 55.8 | 8 | 9 | 43 | 44 | 72 | 62 | .325 | .330 | 34.70 | 3.16 | 5.5 | 4.4 | 5.5 |

BENTONVILLE, ARK.

[$\phi$=36° 22′ N.; $\lambda$=94° 12′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 28.730 | 29.130 | 28.334 | 35.4 | ..... | 45.8 | 29.5 | 37.6 | 73 | − 6 | 30 | ..... | 83 | ..... | 0.205 | ..... | 1.57 | 0.95 | 8.3 | ..... | 8.2 |
| February | 28.577 | 29.128 | 27.952 | 34.8 | ..... | 54.5 | 30.4 | 42.4 | 70 | 11 | 27 | ..... | 73 | ..... | .153 | ..... | 1.99 | 1.07 | 6.1 | ..... | 4.5 |
| March | 28.550 | 28.964 | 28.171 | 40.3 | ..... | 58.4 | 37.4 | 47.9 | 74 | 22 | 33 | ..... | 76 | ..... | .197 | ..... | 3.13 | 1.22 | 5.7 | ..... | 5.3 |
| April | 28.605 | 29.085 | 28.184 | 49.3 | ..... | 68.0 | 44.5 | 56.2 | 82 | 30 | 39 | ..... | 69 | ..... | .254 | ..... | 3.49 | 1.46 | 3.9 | ..... | 4.5 |
| May | 28.521 | 28.789 | 28.295 | 58.0 | ..... | 74.5 | 51.7 | 63.1 | 87 | 31 | 50 | ..... | 77 | ..... | .383 | ..... | 7.96 | 3.22 | 4.5 | ..... | 4.3 |
| June | 28.613 | 28.813 | 28.444 | 68.8 | ..... | 84.0 | 63.2 | 73.6 | 91 | 55 | 64 | ..... | 85 | ..... | .599 | ..... | 4.05 | 1.28 | 4.6 | ..... | 5.0 |
| July | 28.625 | 28.882 | 28.444 | 75.5 | ..... | 90.2 | 68.5 | 79.4 | 98 | 55 | 67 | ..... | 80 | ..... | .663 | ..... | 2.22 | 1.34 | 4.0 | ..... | 2.7 |
| August | 28.666 | 28.882 | 28.413 | 71.6 | ..... | 93.5 | 66.9 | 80.2 | 106 | 54 | 63 | ..... | 74 | ..... | .582 | ..... | .47 | .40 | 2.7 | ..... | 3.6 |
| September | 28.704 | 29.017 | 28.298 | 62.6 | ..... | 86.0 | 59.3 | 72.6 | 101 | 37 | 54 | ..... | 75 | ..... | .453 | ..... | 1.39 | .84 | 2.3 | ..... | 3.0 |
| October | 28.712 | 28.950 | 28.464 | 50.5 | ..... | 73.3 | 47.0 | 60.2 | 91 | 28 | 44 | ..... | 78 | ..... | .297 | ..... | 3.12 | 1.13 | 3.2 | ..... | 3.1 |
| November | 28.722 | 29.089 | 28.411 | 40.7 | ..... | 68.1 | 47.4 | 57.8 | 83 | 24 | 44 | ..... | 82 | ..... | .310 | ..... | 2.43 | .80 | 5.4 | ..... | 5.8 |
| December | 28.690 | 28.986 | 28.334 | 24.7 | ..... | 38.3 | 20.4 | 29.4 | 69 | 4 | 20 | ..... | 82 | ..... | .122 | ..... | 2.76 | 1.50 | 5.5 | ..... | 4.2 |
| Year | 28.643 | 29.130 | 27.952 | 51.6 | ..... | 69.6 | 47.2 | 58.4 | 106 | − 6 | 45 | ..... | 78 | ..... | .352 | ..... | 34.58 | 3.22 | 4.7 | ..... | 4.5 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

AUGUSTA, GA.

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

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Aurora. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 6.3 | NE. | 36 | W. | 0 | 5 | 17 | 5 | 3 | 5 | 3 | 9 | 12 | 3 | 9 | 8 | 14 | 6 | 5 | 0 | 0 | 9 | 0 | 0 | 3 | 1 | 0 |
| February | 8.1 | W. | 36 | W. | 0 | 1 | 0 | 0 | 12 | 9 | 6 | 19 | 8 | 1 | 16 | 5 | 7 | 11 | 10 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 0 |
| March | 7.5 | NW. | 46 | NW. | 1 | 6 | 8 | 3 | 9 | 6 | 5 | 15 | 10 | 0 | 11 | 9 | 11 | 10 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| April | 6.8 | SE. | 34 | NW. | 0 | 5 | 6 | 4 | 19 | 11 | 2 | 6 | 6 | 1 | 12 | 5 | 13 | 8 | 8 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 |
| May | 5.7 | SE. | 30 | W. | 0 | 0 | 10 | 4 | 15 | 9 | 8 | 9 | 7 | 0 | 8 | 14 | 9 | 9 | 6 | 0 | 0 | 0 | 0 | 1 | 0 | 8 | 0 |
| June | 5.4 | SE. | 38 | S. | 0 | 2 | 3 | 5 | 25 | 11 | 7 | 1 | 6 | 0 | 4 | 15 | 11 | 11 | 8 | 0 | 0 | 0 | 0 | 12 | 0 | 9 | 0 |
| July | 5.6 | S. | 31 | SW. | 0 | 1 | 7 | 8 | 13 | 15 | 7 | 6 | 4 | 1 | 6 | 16 | 9 | 13 | 9 | 0 | 0 | 0 | 0 | 13 | 0 | 9 | 0 |
| August | 4.9 | NE. | 36 | NE. | 0 | 4 | 11 | 14 | 7 | 10 | 5 | 2 | 6 | 3 | 13 | 13 | 5 | 10 | 10 | 0 | 0 | 0 | 0 | 15 | 0 | 9 | 0 |
| September | 6.0 | NE. | 28 | NE. | 0 | 9 | 24 | 13 | 10 | 0 | 0 | 2 | 2 | 0 | 8 | 10 | 12 | 7 | 5 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 |
| October | 5.0 | NW. | 30 | NW. | 0 | 5 | 11 | 7 | 5 | 6 | 2 | 10 | 15 | 1 | 23 | 3 | 5 | 4 | 4 | 0 | 0 | 3 | 0 | 0 | 0 | 3 | 0 |
| November | 5.1 | NW. | 24 | W. | 0 | 4 | 15 | 3 | 5 | 6 | 4 | 5 | 15 | 3 | 16 | 11 | 3 | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 2 | 2 | 0 |
| December | 6.6 | W. | 36 | W. | 0 | 4 | 4 | 7 | 2 | 4 | 11 | 15 | 13 | 2 | 13 | 9 | 9 | 10 | 7 | 0 | 0 | 3 | 1 | 0 | 15 | 0 | 0 |
| Year | 6.1 | SE. | 46 | NW. | 1 | 46 | 116 | 73 | 125 | 92 | 60 | 99 | 104 | 15 | 139 | 118 | 108 | 101 | 82 | 0 | 0 | 19 | 1 | 44 | 25 | 55 | 0 |

BAKER CITY, OREG.

[H=3,471 ft.; $h_t$= 48 ft.; $h_r$=38 ft.; $h_a$=58 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 7.3 | SE. | 32 | S. | 0 | 3 | 0 | 0 | 27 | 19 | 6 | 1 | 6 | 0 | 4 | 7 | 20 | 15 | 12 | 9 | 0 | 0 | 8 | 0 | 23 | 0 | 0 |
| February | 6.5 | S. | 23 | NW. | 0 | 3 | 2 | 3 | 18 | 15 | 6 | 3 | 6 | 0 | 1 | 13 | 14 | 15 | 8 | 13 | 0 | 0 | 0 | 0 | 20 | 0 | 0 |
| March | 6.4 | S. | 28 | NW. | 0 | 6 | 5 | 0 | 13 | 19 | 5 | 4 | 10 | 0 | 8 | 10 | 13 | 5 | 4 | 5 | 0 | 1 | 0 | 0 | 22 | 0 | 0 |
| April | 7.4 | NW. | 27 | NW. | 0 | 17 | 2 | 1 | 8 | 12 | 2 | 3 | 15 | 0 | 9 | 14 | 7 | 6 | 4 | 4 | 0 | 0 | 0 | 0 | 22 | 0 | 0 |
| May | 7.0 | NW. | 29 | NW. | 0 | 13 | 0 | 4 | 7 | 13 | 3 | 2 | 20 | 0 | 9 | 15 | 7 | 10 | 5 | 2 | 0 | 0 | 0 | 0 | 6 | 1 | 0 |
| June | 5.8 | NW. | 24 | S. | 0 | 11 | 1 | 0 | 4 | 14 | 3 | 5 | 22 | 0 | 8 | 19 | 3 | 6 | 6 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 |
| July | 5.8 | NW. | 21 | NW. | 0 | 7 | 2 | 2 | 4 | 18 | 4 | 2 | 23 | 0 | 19 | 8 | 4 | 6 | 4 | 0 | 1 | 0 | 0 | 2 | 0 | 5 | 0 |
| August | 6.4 | NW. | 26 | NW. | 0 | 8 | 0 | 1 | 10 | 18 | 1 | 1 | 23 | 0 | 22 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 |
| September | 5.7 | S. | 25 | N. | 0 | 3 | 1 | 1 | 15 | 19 | 1 | 3 | 16 | 1 | 12 | 9 | 9 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 |
| October | 6.2 | S. | 19 | S. | 0 | 4 | 3 | 1 | 22 | 18 | 2 | 2 | 9 | 1 | 13 | 10 | 8 | 7 | 5 | 2 | 1 | 0 | 0 | 0 | 7 | 1 | 0 |
| November | 6.3 | SE. | 27 | SW. | 0 | 4 | 1 | 1 | 23 | 14 | 6 | 4 | 6 | 1 | 5 | 6 | 19 | 19 | 12 | 5 | 0 | 0 | 2 | 0 | 16 | 0 | 0 |
| December | 5.8 | SE. | 22 | NW. | 0 | 1 | 2 | 1 | 31 | 14 | 2 | 2 | 9 | 0 | 8 | 7 | 16 | 12 | 8 | 12 | 0 | 1 | 25 | 0 | 31 | 0 | 0 |
| Year | 6.4 | S. | 32 | S. | 0 | 80 | 19 | 15 | 182 | 193 | 41 | 32 | 165 | 3 | 118 | 127 | 120 | 109 | 74 | 52 | 2 | 2 | 35 | 7 | 148 | 15 | 0 |

BALTIMORE, MD.

[H=123 ft.; $h_t$=100 ft.; $h_r$=90 ft.; $h_a$=113 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 6.8 | NW. | 30 | NW. | 0 | 11 | 7 | 4 | 7 | 8 | 7 | 6 | 11 | 1 | 5 | 6 | 20 | 12 | 8 | 3 | 0 | 7 | 5 | 0 | 19 | 0 | 0 |
| February | 8.1 | SW. | 36 | SW. | 0 | 8 | 5 | 3 | 8 | 5 | 11 | 5 | 10 | 1 | 6 | 7 | 15 | 10 | 9 | 1 | 0 | 2 | 1 | 0 | 13 | 0 | 0 |
| March | 8.3 | NW. | 30 | SW. | 0 | 6 | 7 | 3 | 3 | 9 | 11 | 7 | 14 | 2 | 10 | 8 | 13 | 13 | 9 | 3 | 0 | 1 | 0 | 0 | 10 | 0 | 0 |
| April | 8.9 | SW. | 33 | SE. | 0 | 11 | 8 | 6 | 7 | 6 | 9 | 2 | 10 | 1 | 10 | 6 | 14 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| May | 7.8 | SW. | 31 | SE. | 0 | 11 | 7 | 6 | 8 | 9 | 16 | 0 | 5 | 0 | 11 | 8 | 12 | 7 | 7 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 |
| June | 6.0 | SW. | 25 | SW. | 0 | 10 | 8 | 5 | 2 | 13 | 14 | 3 | 4 | 1 | 4 | 12 | 14 | 13 | 13 | 0 | 0 | 0 | 0 | 9 | 0 | 7 | 0 |
| July | 6.9 | SW. | 27 | SW. | 0 | 8 | 5 | 3 | 7 | 14 | 12 | 4 | 9 | 0 | 12 | 14 | 5 | 5 | 2 | 0 | 0 | 0 | 0 | 7 | 0 | 2 | 0 |
| August | 6.8 | N. | 21 | N. | 0 | 14 | 10 | 9 | 0 | 11 | 13 | 2 | 3 | 0 | 12 | 9 | 10 | 5 | 3 | 0 | 0 | 0 | 0 | 5 | 0 | 2 | 0 |
| September | 7.1 | N. | 32 | N. | 0 | 14 | 7 | 6 | 3 | 17 | 4 | 0 | 9 | 0 | 12 | 8 | 10 | 5 | 5 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| October | 6.6 | SW. | 30 | SE. | 0 | 13 | 4 | 1 | 3 | 6 | 17 | 3 | 14 | 1 | 18 | 5 | 8 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| November | 7.5 | S. | 33 | N. | 0 | 11 | 6 | 5 | 0 | 10 | 13 | 3 | 11 | 1 | 10 | 11 | 9 | 7 | 6 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| December | 7.3 | NW. | 27 | NW. | 0 | 5 | 4 | 1 | 5 | 1 | 19 | 7 | 19 | 1 | 10 | 17 | 4 | 7 | 6 | 4 | 0 | 1 | 8 | 0 | 23 | 0 | 0 |
| Year | 7.3 | SW. | 36 | SW. | 0 | 122 | 78 | 52 | 53 | 109 | 146 | 42 | 119 | 9 | 120 | 111 | 134 | 96 | 78 | 13 | 0 | 13 | 14 | 22 | 68 | 13 | 0 |

BENTONVILLE, ARK.

[H=1,303 ft.; $h_t$=11 ft.; $h_r$=3 ft.; $h_a$=44 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 8.5 | S. | 38 | SW. | 0 | 6 | 3 | 3 | 1 | 12 | 4 | 0 | 2 | 0 | 4 | 4 | 23 | 9 | 5 | 4 | 0 | 0 | 7 | 0 | 15 | 2 | 0 |
| February | 8.6 | S. | 34 | W. | 0 | 4 | 1 | 3 | 2 | 10 | 2 | 4 | 2 | 0 | 16 | 2 | 10 | 6 | 9 | 2 | 1 | 0 | 1 | 0 | 15 | 4 | 0 |
| March | 7.2 | N. | 32 | S. | 0 | 6 | 4 | 3 | 3 | 6 | 1 | 1 | 6 | 1 | 10 | 9 | 12 | 9 | 7 | 1 | 1 | 0 | 0 | 0 | 9 | 7 | 0 |
| April | 9.4 | S. | 44 | S. | 1 | 5 | 1 | 2 | 4 | 9 | 2 | 2 | 5 | 0 | 15 | 7 | 8 | 10 | 9 | 0 | 1 | 0 | 0 | 0 | 2 | 7 | 0 |
| May | 6.1 | S. | 30 | S. | 0 | 4 | 2 | 4 | 7 | 4 | 3 | 6 | 1 | 0 | 16 | 8 | 7 | 11 | 10 | 0 | 0 | 0 | 0 | 0 | 1 | 12 | 0 |
| June | 4.0 | S. | 22 | NE. | 0 | 0 | 1 | 4 | 7 | 12 | 2 | 2 | 2 | 0 | 10 | 12 | 8 | 15 | 10 | 0 | 1 | 0 | 0 | 3 | 0 | 16 | 0 |
| July | 4.8 | S. | 22 | W. | 0 | 3 | 4 | 3 | 5 | 8 | 6 | 0 | 2 | 0 | 21 | 9 | 1 | 7 | 7 | 0 | 0 | 0 | 0 | 18 | 0 | 8 | 0 |
| August | 4.1 | SE. | 17 | SW. | 0 | 1 | 4 | 4 | 10 | 7 | 4 | 0 | 1 | 0 | 19 | 9 | 3 | 4 | 3 | 0 | 0 | 0 | 0 | 26 | 0 | 3 | 0 |
| September | 4.5 | SW. | 17 | W. | 0 | 4 | 4 | 5 | 5 | 5 | 6 | 0 | 1 | 0 | 21 | 5 | 4 | 5 | 3 | 0 | 0 | 0 | 0 | 10 | 0 | 5 | 0 |
| October | 5.7 | S. | 22 | S. | 0 | 1 | 2 | 5 | 3 | 10 | 6 | 1 | 3 | 0 | 19 | 8 | 4 | 7 | 5 | 0 | 0 | 0 | 0 | 3 | 1 | 3 | 0 |
| November | 7.5 | S. | 30 | S. | 0 | 0 | 1 | 2 | 8 | 10 | 4 | 2 | 3 | 0 | 9 | 7 | 14 | 10 | 7 | 0 | 0 | 0 | 0 | 0 | 3 | 7 | 0 |
| December | 6.1 | NW. | 24 | S. | 0 | 5 | 0 | 3 | 3 | 3 | 5 | 6 | 6 | 0 | 18 | 6 | 7 | 10 | 7 | 5 | 0 | 0 | 9 | 0 | 27 | 3 | 0 |
| Year | 6.4 | S. | 44 | S. | 1 | 39 | 29 | 41 | 58 | 96 | 45 | 24 | 34 | 1 | 178 | 86 | 101 | 106 | 82 | 12 | 4 | 0 | 17 | 60 | 73 | 77 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

BINGHAMTON, N. Y.

[$\phi$=42° 8′ N.; $\lambda$=75° 55′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.167 | 29.696 | 28.250 | 24.9 | ..... | 34.9 | 18.8 | 26.8 | 56 | −11 | 21 | ..... | 84 | ..... | 0.125 | ..... | 2.92 | 0.87 | 8.5 | ..... | 8.6 |
| February | 28.975 | 29.498 | 28.302 | 28.8 | ..... | 39.0 | 23.4 | 31.2 | 55 | − 1 | 24 | ..... | 82 | ..... | .138 | ..... | 2.96 | .80 | 8.4 | ..... | 8.5 |
| March | 28.882 | 29.490 | 27.931 | 28.7 | ..... | 38.6 | 23.5 | 31.0 | 60 | 4 | 23 | ..... | 78 | ..... | .128 | ..... | 2.45 | .93 | 6.8 | ..... | 7.4 |
| April | 29.108 | 29.677 | 28.787 | 39.8 | ..... | 53.4 | 33.9 | 43.6 | 80 | 16 | 33 | ..... | 76 | ..... | .194 | ..... | 3.51 | 1.20 | 7.3 | ..... | 7.5 |
| May | 28.996 | 29.321 | 28.566 | 53.9 | ..... | 65.8 | 46.6 | 56.2 | 81 | 35 | 44 | ..... | 69 | ..... | .295 | ..... | 2.47 | .63 | 7.1 | ..... | 7.1 |
| June | 29.072 | 29.324 | 28.808 | 62.5 | ..... | 76.0 | 55.5 | 65.8 | 87 | 43 | 56 | ..... | 79 | ..... | .454 | ..... | 3.52 | 1.39 | 6.5 | ..... | 7.3 |
| July | 29.027 | 29.379 | 28.734 | 64.1 | ..... | 79.0 | 55.8 | 67.4 | 89 | 43 | 55 | ..... | 72 | ..... | .437 | ..... | 1.07 | .40 | 5.4 | ..... | 5.8 |
| August | 29.117 | 29.459 | 28.653 | 61.2 | ..... | 77.5 | 53.7 | 65.6 | 94 | 38 | 54 | ..... | 78 | ..... | .424 | ..... | 2.52 | 1.20 | 4.5 | ..... | 5.6 |
| September | 29.186 | 29.553 | 28.903 | 54.4 | ..... | 70.4 | 48.8 | 59.6 | 86 | 34 | 50 | ..... | 85 | ..... | .369 | ..... | 1.81 | .79 | 6.5 | ..... | 6.0 |
| October | 29.122 | 29.601 | 28.741 | 42.1 | ..... | 54.9 | 37.9 | 46.4 | 80 | 25 | 36 | ..... | 80 | ..... | .220 | ..... | 1.53 | .86 | 7.0 | ..... | 6.5 |
| November | 29.235 | 29.736 | 28.682 | 38.2 | ..... | 52.3 | 33.7 | 43.0 | 76 | 19 | 33 | ..... | 81 | ..... | .197 | ..... | .58 | .27 | 6.7 | ..... | 6.5 |
| December | 28.969 | 29.514 | 28.413 | 22.8 | ..... | 30.5 | 20.1 | 25.3 | 43 | 0 | 19 | ..... | 86 | ..... | .106 | ..... | 1.48 | .72 | 8.8 | ..... | 8.4 |
| Year | 29.071 | 29.736 | 27.931 | 43.4 | ..... | 56.0 | 37.6 | 46.8 | 94 | −11 | 37 | ..... | 79 | ..... | .257 | ..... | 26.82 | 1.39 | 7.0 | ..... | 7.1 |

BIRMINGHAM, ALA.

[$\phi$=33° 32′ N.; $\lambda$=86° 50′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.424 | 29.735 | 28.850 | 44.7 | 50.8 | 57.5 | 41.4 | 49.4 | 76 | 11 | 40 | 41 | 83 | 70 | 0.270 | 0.286 | 2.65 | 0.95 | 6.5 | 5.4 | 6.3 |
| February | 29.313 | 29.827 | 28.866 | 44.4 | 54.4 | 59.9 | 41.8 | 50.8 | 77 | 15 | 36 | 42 | 73 | 66 | .249 | .305 | 7.10 | 1.55 | 4.7 | 4.7 | 4.9 |
| March | 29.203 | 29.519 | 28.766 | 48.8 | 58.1 | 64.2 | 45.9 | 55.0 | 75 | 31 | 42 | 46 | 78 | 66 | .281 | .331 | 9.34 | 2.22 | 6.6 | 5.4 | 5.3 |
| April | 29.311 | 29.623 | 28.869 | 56.0 | 66.2 | 72.7 | 53.5 | 63.1 | 85 | 37 | 50 | 51 | 80 | 61 | .380 | .396 | 10.31 | 2.40 | 5.9 | 4.4 | 4.5 |
| May | 29.215 | 29.545 | 28.927 | 63.4 | 70.0 | 76.9 | 59.2 | 68.0 | 85 | 40 | 57 | 60 | 81 | 72 | .485 | .529 | 4.11 | .96 | 5.9 | 5.8 | 5.8 |
| June | 29.262 | 29.429 | 28.963 | 73.9 | 77.2 | 85.2 | 69.1 | 77.2 | 93 | 62 | 68 | 70 | 83 | 78 | .692 | .723 | 8.04 | 2.68 | 5.0 | 6.4 | 5.4 |
| July | 29.258 | 29.475 | 29.026 | 74.6 | 80.9 | 88.3 | 70.1 | 79.2 | 94 | 61 | 69 | 71 | 83 | 74 | .715 | .768 | 4.92 | 1.98 | 5.0 | 5.7 | 5.2 |
| August | 29.262 | 29.469 | 28.923 | 74.6 | 82.0 | 90.2 | 71.3 | 80.8 | 99 | 66 | 68 | 69 | 81 | 65 | .698 | .704 | 1.15 | .76 | 4.3 | 4.6 | 5.0 |
| September | 29.298 | 29.413 | 29.046 | 67.7 | 74.8 | 84.4 | 64.7 | 74.6 | 92 | 44 | 62 | 63 | 83 | 69 | .586 | .610 | 1.61 | .94 | 3.5 | 4.2 | 5.2 |
| October | 29.384 | 29.605 | 29.000 | 56.3 | 66.7 | 76.4 | 53.4 | 64.9 | 91 | 36 | 49 | 49 | 77 | 55 | .361 | .361 | 1.47 | 1.11 | 1.5 | 1.8 | 3.1 |
| November | 29.466 | 29.753 | 28.995 | 52.8 | 62.9 | 71.9 | 50.9 | 61.4 | 82 | 31 | 44 | 45 | 73 | 54 | .310 | .320 | 1.05 | .54 | 3.0 | 1.0 | 4.4 |
| December | 29.345 | 29.672 | 29.006 | 33.6 | 41.2 | 49.0 | 31.3 | 40.2 | 71 | 12 | 26 | 31 | 75 | 66 | .161 | .195 | 4.41 | 1.47 | 5.8 | 4.2 | 6.0 |
| Year | 29.312 | 29.827 | 28.766 | 57.6 | 65.4 | 73.0 | 54.4 | 63.7 | 99 | 11 | 51 | 53 | 79 | 66 | .432 | .461 | 56.16 | 2.68 | 4.8 | 4.5 | 5.1 |

BISMARCK, N. DAK.

[$\phi$=46° 47′ N.; $\lambda$=100° 38′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 28.282 | 28.908 | 27.700 | 1.7 | 8.9 | 16.2 | −3.6 | 6.3 | 48 | −30 | 0 | 3 | 92 | 75 | 0.055 | 0.065 | 0.21 | 0.11 | 5.0 | 4.0 | 5.4 |
| February | 28.196 | 28.905 | 27.646 | 8.2 | 15.0 | 21.5 | 2.8 | 12.2 | 54 | −22 | 7 | 10 | 93 | 79 | .065 | .079 | .36 | .24 | 7.1 | 5.7 | 6.8 |
| March | 28.232 | 28.749 | 27.769 | 21.9 | 30.2 | 36.0 | 19.3 | 27.7 | 60 | 6 | 19 | 24 | 90 | 77 | .105 | .131 | .27 | .11 | 6.1 | 5.6 | 6.6 |
| April | 28.181 | 28.649 | 27.742 | 27.3 | 41.1 | 47.1 | 23.3 | 35.2 | 65 | 11 | 23 | 25 | 82 | 54 | .122 | .134 | .84 | .47 | 6.8 | 5.3 | 6.1 |
| May | 28.115 | 28.451 | 27.587 | 44.0 | 59.8 | 65.5 | 39.9 | 52.7 | 86 | 18 | 39 | 40 | 82 | 54 | .251 | .266 | 4.43 | 1.36 | 4.4 | 5.5 | 5.5 |
| June | 28.218 | 28.512 | 27.928 | 57.8 | 71.5 | 75.8 | 53.7 | 64.8 | 98 | 40 | 53 | 56 | 86 | 60 | .418 | .466 | 2.19 | .71 | 4.8 | 5.2 | 5.5 |
| July | 28.184 | 28.494 | 27.831 | 61.4 | 76.6 | 81.0 | 58.0 | 69.5 | 94 | 48 | 58 | 60 | 88 | 59 | .480 | .535 | 2.41 | .64 | 4.3 | 5.1 | 4.6 |
| August | 28.209 | 28.562 | 27.848 | 61.2 | 79.3 | 85.2 | 57.5 | 71.4 | 99 | 38 | 57 | 61 | 86 | 55 | .478 | .552 | 4.77 | 3.60 | 3.5 | 3.9 | 3.3 |
| September | 28.262 | 28.600 | 27.887 | 47.5 | 67.1 | 75.6 | 45.8 | 60.7 | 90 | 30 | 44 | 49 | 90 | 54 | .307 | .360 | .83 | .52 | 3.9 | 4.7 | 4.6 |
| October | 28.268 | 28.799 | 27.821 | 34.8 | 47.2 | 56.4 | 31.5 | 44.0 | 88 | 8 | 31 | 34 | 85 | 62 | .181 | .205 | .78 | .60 | 4.9 | 4.6 | 5.1 |
| November | 28.246 | 28.746 | 27.488 | 23.6 | 33.0 | 41.3 | 18.8 | 30.0 | 68 | − 4 | 21 | 24 | 88 | 71 | .117 | .135 | .41 | .17 | 5.7 | 5.1 | 6.1 |
| December | 28.289 | 28.612 | 27.727 | 5.3 | 8.1 | 14.8 | −0.7 | 7.0 | 41 | −21 | 4 | 5 | 92 | 88 | .055 | .058 | 1.05 | .29 | 5.9 | 5.8 | 6.6 |
| Year | 28.224 | 28.908 | 27.488 | 32.9 | 44.8 | 51.4 | 28.9 | 40.1 | 99 | −30 | 30 | 33 | 88 | 66 | .220 | .249 | 18.55 | 3.60 | 5.2 | 5.0 | 5.5 |

BLOCK ISLAND, R. I.

[$\phi$=41° 10′ N.; $\lambda$=71° 36′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 30.077 | 30.629 | 28.962 | 32.3 | 33.5 | 38.9 | 27.5 | 33.2 | 56 | 11 | 27 | 27 | 79 | 75 | 0.156 | 0.153 | 3.95 | 1.50 | 6.2 | 5.2 | 7.1 |
| February | 29.905 | 30.405 | 29.068 | 33.2 | 35.4 | 40.0 | 30.0 | 35.0 | 54 | 8 | 28 | 29 | 78 | 78 | .161 | .169 | 5.70 | 2.64 | 6.8 | 5.4 | 6.6 |
| March | 29.760 | 30.364 | 28.953 | 34.5 | 37.0 | 41.0 | 32.0 | 36.5 | 51 | 23 | 28 | 29 | 74 | 72 | .155 | .162 | 2.00 | 1.16 | 4.9 | 4.5 | 4.8 |
| April | 30.025 | 30.639 | 29.582 | 43.4 | 43.9 | 48.8 | 39.3 | 44.0 | 56 | 26 | 38 | 38 | 81 | 80 | .236 | .233 | 7.97 | 3.25 | 5.4 | 3.9 | 4.9 |
| May | 29.898 | 30.209 | 29.493 | 51.7 | 52.0 | 57.8 | 47.6 | 52.7 | 72 | 40 | 47 | 47 | 85 | 84 | .327 | .325 | 3.26 | .79 | 5.6 | 4.5 | 4.7 |
| June | 29.938 | 30.240 | 29.643 | 61.8 | 61.1 | 68.7 | 57.3 | 63.0 | 85 | 48 | 56 | 56 | 83 | 85 | .463 | .463 | 1.43 | .78 | 4.6 | 4.1 | 3.9 |
| July | 29.898 | 30.214 | 29.431 | 66.5 | 66.0 | 73.7 | 62.0 | 67.8 | 84 | 54 | 60 | 61 | 79 | 84 | .522 | .536 | .93 | .44 | 2.6 | 2.5 | 2.5 |
| August | 29.975 | 30.347 | 29.386 | 66.5 | 66.5 | 73.1 | 62.8 | 68.0 | 87 | 58 | 60 | 61 | 79 | 84 | .518 | .546 | 1.71 | 1.26 | 4.2 | 4.8 | 4.2 |
| September | 30.078 | 30.441 | 29.767 | 62.3 | 62.0 | 68.1 | 58.1 | 63.1 | 76 | 54 | 58 | 57 | 85 | 85 | .488 | .475 | 3.68 | 1.36 | 5.9 | 3.4 | 5.2 |
| October | 29.995 | 30.503 | 29.587 | 51.7 | 53.5 | 58.4 | 49.0 | 53.7 | 75 | 34 | 43 | 44 | 73 | 72 | .296 | .307 | 1.74 | .51 | 3.0 | 3.5 | 4.8 |
| November | 30.105 | 30.690 | 29.508 | 46.4 | 46.8 | 51.7 | 42.4 | 47.0 | 64 | 29 | 40 | 39 | 78 | 74 | .257 | .252 | 3.15 | 1.12 | 6.2 | 3.0 | 6.0 |
| December | 29.821 | 30.405 | 28.742 | 30.1 | 33.4 | 36.9 | 28.5 | 32.7 | 53 | 9 | 21 | 23 | 66 | 63 | .113 | .126 | 3.10 | 1.34 | 3.8 | 3.8 | 5.7 |
| Year | 29.956 | 30.690 | 28.742 | 48.4 | 49.3 | 54.8 | 44.7 | 49.7 | 87 | 8 | 42 | 43 | 78 | 78 | .308 | .312 | 39.22 | 3.25 | 4.9 | 4.1 | 5.0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

BINGHAMTON, N. Y.

[H=871 ft.; $h_t$=78 ft.; $h_r$=71 ft.; $h_a$=88 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 6.8 | W. | 24 | NW. | 0 | 6 | 6 | 3 | 2 | 2 | 5 | 3 | 4 | 0 | 2 | 2 | 27 | 17 | 12 | 8 | 0 | 1 | 13 | 0 | 24 | 1 | 0 |
| February | 8.2 | W. | 35 | SW. | 0 | 4 | 2 | 2 | 3 | 1 | 5 | 10 | 1 | 0 | 1 | 7 | 20 | 15 | 12 | 5 | 0 | 0 | 7 | 0 | 23 | 2 | 0 |
| March | 8.4 | W. | 30 | W. | 0 | 1 | 6 | 1 | 1 | 2 | 4 | 8 | 8 | 0 | 5 | 7 | 19 | 11 | 7 | 8 | 0 | 0 | 4 | 0 | 28 | 0 | 1 |
| April | 8.4 | W. | 46 | W. | 1 | 3 | 3 | 1 | 5 | 4 | 2 | 8 | 4 | 0 | 3 | 5 | 22 | 17 | 11 | 3 | 0 | 1 | 1 | 0 | 13 | 3 | 0 |
| May | 6.6 | NW. | 33 | SW. | 0 | 2 | 4 | 2 | 4 | 2 | 5 | 7 | 4 | 1 | 6 | 6 | 19 | 14 | 11 | 0 | 0 | 1 | 0 | 0 | 0 | 6 | 0 |
| June | 4.5 | NW. | 24 | NW. | 0 | 4 | 5 | 4 | 1 | 0 | 5 | 6 | 5 | 0 | 4 | 8 | 18 | 10 | 8 | 0 | 0 | 1 | 0 | 0 | 0 | 5 | 0 |
| July | 5.7 | NW. | 21 | NW. | 0 | 2 | 5 | 2 | 5 | 0 | 1 | 6 | 9 | 1 | 8 | 9 | 14 | 6 | 6 | 0 | 0 | 2 | 0 | 0 | 0 | 4 | 0 |
| August | 5.0 | N. | 26 | NW. | 0 | 2 | 11 | 5 | 3 | 0 | 0 | 3 | 6 | 1 | 10 | 8 | 13 | 7 | 7 | 0 | 1 | 6 | 0 | 2 | 0 | 2 | 0 |
| September | 5.1 | S. | 24 | SW. | 0 | 1 | 5 | 4 | 5 | 1 | 1 | 9 | 3 | 1 | 9 | 7 | 14 | 7 | 6 | 0 | 0 | 8 | 0 | 0 | 0 | 1 | 0 |
| October | 5.5 | W. | 26 | SE. | 0 | 1 | 3 | 5 | 1 | 0 | 2 | 14 | 4 | 1 | 9 | 5 | 17 | 13 | 6 | 0 | 0 | 5 | 0 | 0 | 7 | 1 | 0 |
| November | 6.5 | NW. | 27 | S. | 0 | 3 | 4 | 2 | 2 | 4 | 4 | 4 | 7 | 0 | 11 | 3 | 16 | 9 | 6 | 4 | 0 | 0 | 2 | 0 | 14 | 0 | 0 |
| December | 7.7 | W. | 34 | SE. | 0 | 2 | 5 | 2 | 2 | 0 | 4 | 13 | 3 | 0 | 4 | 2 | 25 | 6 | 5 | 3 | 0 | 0 | 19 | 0 | 31 | 0 | 0 |
| Year | 6.5 | W. | 46 | W. | 1 | 31 | 59 | 33 | 34 | 16 | 38 | 91 | 58 | 5 | 72 | 69 | 224 | 132 | 97 | 31 | 1 | 25 | 46 | 2 | 140 | 25 | 1 |

BIRMINGHAM, ALA.

[H=700 ft.; $h_t$=11 ft.; $h_r$=3 ft.; $h_a$=48 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 8.3 | SE. | 36 | NW. | 0 | 13 | 1 | 5 | 21 | 5 | 5 | 1 | 11 | 0 | 8 | 11 | 12 | 10 | 9 | 0 | 0 | 2 | 2 | 0 | 9 | 0 | 0 |
| February | 10.5 | S. | 40 | S. | 1 | 4 | 0 | 1 | 11 | 13 | 8 | 5 | 11 | 3 | 11 | 7 | 10 | 11 | 11 | 0 | 2 | 0 | 0 | 0 | 6 | 6 | 0 |
| March | 8.8 | S. | 36 | S. | 0 | 12 | 7 | 2 | 8 | 11 | 4 | 3 | 15 | 0 | 9 | 11 | 11 | 13 | 12 | 0 | 0 | 0 | 0 | 0 | 1 | 7 | 0 |
| April | 8.7 | S. | 37 | SE. | 0 | 9 | 5 | 1 | 9 | 21 | 5 | 1 | 8 | 1 | 11 | 14 | 5 | 9 | 9 | 0 | 0 | 1 | 0 | 0 | 0 | 8 | 0 |
| May | 6.9 | S. | 44 | SE. | 1 | 7 | 7 | 2 | 9 | 21 | 6 | 2 | 8 | 0 | 6 | 13 | 12 | 13 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 |
| June | 5.0 | S. | 30 | NW. | 0 | 7 | 9 | 11 | 9 | 11 | 4 | 2 | 7 | 0 | 2 | 23 | 5 | 16 | 16 | 0 | 0 | 0 | 0 | 5 | 0 | 20 | 0 |
| July | 5.2 | S. | 20 | N. | 0 | 11 | 6 | 6 | 8 | 12 | 10 | 2 | 6 | 1 | 3 | 26 | 2 | 8 | 8 | 0 | 0 | 0 | 0 | 12 | 0 | 6 | 0 |
| August | 5.4 | E. | 24 | SE. | 0 | 12 | 4 | 15 | 9 | 9 | 7 | 2 | 4 | 0 | 8 | 21 | 2 | 7 | 4 | 0 | 0 | 0 | 0 | 15 | 0 | 14 | 0 |
| September | 6.7 | N. | 38 | SE. | 0 | 20 | 6 | 16 | 12 | 1 | 0 | 1 | 3 | 1 | 8 | 12 | 10 | 6 | 5 | 0 | 1 | 0 | 0 | 3 | 0 | 7 | 0 |
| October | 6.6 | N. | 29 | NW. | 0 | 14 | 4 | 9 | 6 | 12 | 1 | 2 | 13 | 1 | 18 | 9 | 4 | 3 | 3 | 0 | 1 | 1 | 0 | 2 | 0 | 1 | 0 |
| November | 7.3 | S. | 30 | S. | 0 | 16 | 3 | 5 | 6 | 24 | 1 | 2 | 9 | 3 | 11 | 15 | 4 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 |
| December | 7.9 | N. | 35 | SE. | 0 | 24 | 1 | 4 | 10 | 11 | 2 | 2 | 8 | 0 | 9 | 8 | 14 | 15 | 11 | 3 | 0 | 1 | 1 | 0 | 20 | 1 | 0 |
| Year | 7.3 | S. | 44 | SE. | 2 | 149 | 53 | 77 | 118 | 151 | 53 | 25 | 94 | 10 | 104 | 170 | 91 | 114 | 102 | 3 | 5 | 4 | 3 | 37 | 39 | 81 | 0 |

BISMARCK, N. DAK.

[H=1,674 ft.; $h_t$=8 ft.; $h_r$=3 ft.; $h_a$=57 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 10.8 | NW. | 52 | NW. | 2 | 1 | 4 | 4 | 9 | 8 | 8 | 2 | 26 | 0 | 10 | 12 | 9 | 5 | 2 | 5 | 0 | 0 | 21 | 0 | 31 | 0 | 1 |
| February | 8.8 | NW. | 33 | NW. | 0 | 7 | 5 | 11 | 5 | 2 | 2 | 4 | 20 | 0 | 4 | 13 | 11 | 8 | 3 | 6 | 0 | 2 | 20 | 0 | 28 | 0 | 0 |
| March | 12.1 | NW. | 42 | NW. | 2 | 10 | 3 | 6 | 9 | 6 | 2 | 3 | 23 | 0 | 7 | 9 | 15 | 8 | 3 | 8 | 0 | 0 | 9 | 0 | 31 | 0 | 0 |
| April | 13.8 | NW. | 52 | NW. | 3 | 8 | 5 | 9 | 7 | 4 | 4 | 5 | 18 | 0 | 6 | 12 | 12 | 9 | 3 | 6 | 2 | 0 | 3 | 0 | 29 | 0 | 0 |
| May | 12.4 | NW. | 46 | NW. | 3 | 13 | 7 | 17 | 8 | 1 | 2 | 0 | 14 | 0 | 11 | 8 | 12 | 16 | 14 | 1 | 1 | 1 | 0 | 0 | 7 | 8 | 1 |
| June | 10.0 | E. | 38 | W. | 0 | 7 | 8 | 17 | 6 | 7 | 5 | 3 | 6 | 1 | 11 | 7 | 12 | 12 | 9 | 0 | 0 | 0 | 0 | 3 | 0 | 9 | 0 |
| July | 10.2 | NW. | 50 | NW. | 1 | 4 | 2 | 7 | 17 | 5 | 3 | 5 | 19 | 0 | 14 | 10 | 7 | 11 | 8 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 0 |
| August | 9.6 | E. | 44 | E. | 1 | 4 | 11 | 13 | 13 | 7 | 2 | 2 | 10 | 0 | 18 | 10 | 3 | 13 | 10 | 0 | 0 | 0 | 0 | 9 | 0 | 11 | 0 |
| September | 10.0 | NW. | 40 | S. | 1 | 5 | 2 | 8 | 12 | 7 | 3 | 5 | 17 | 1 | 14 | 10 | 6 | 5 | 3 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 |
| October | 10.8 | NW. | 35 | N. | 0 | 13 | 3 | 10 | 7 | 7 | 0 | 3 | 19 | 0 | 12 | 11 | 8 | 3 | 2 | 2 | 0 | 1 | 1 | 0 | 18 | 2 | 1 |
| November | 9.4 | NW. | 38 | NW. | 0 | 8 | 5 | 11 | 9 | 6 | 2 | 3 | 15 | 1 | 7 | 11 | 12 | 7 | 5 | 7 | 0 | 0 | 11 | 0 | 23 | 0 | 1 |
| December | 11.3 | NW. | 40 | NW. | 2 | 7 | 3 | 6 | 2 | 3 | 3 | 3 | 35 | 0 | 6 | 11 | 14 | 12 | 7 | 12 | 0 | 0 | 27 | 0 | 31 | 0 | 0 |
| Year | 10.8 | NW. | 52 | NW. | 15 | 87 | 58 | 119 | 104 | 63 | 36 | 38 | 222 | 3 | 120 | 124 | 121 | 109 | 69 | 47 | 3 | 4 | 92 | 21 | 199 | 37 | 4 |

BLOCK ISLAND, R. I.

[H=26 ft.; $h_t$=11 ft.; $h_r$=3 ft.; $h_a$=46 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 20.2 | NW. | 55 | NW. | 10 | 6 | 11 | 4 | 2 | 4 | 14 | 5 | 16 | 0 | 7 | 4 | 20 | 14 | 9 | 6 | 0 | 6 | 6 | 0 | 22 | 0 | 0 |
| February | 22.6 | W. | 70 | NW. | 13 | 5 | 6 | 2 | 4 | 3 | 11 | 14 | 11 | 0 | 8 | 5 | 15 | 11 | 10 | 0 | 0 | 2 | 3 | 0 | 14 | 0 | 0 |
| March | 21.6 | W. | 62 | NE. | 9 | 4 | 6 | 1 | 2 | 3 | 11 | 14 | 21 | 0 | 16 | 3 | 12 | 11 | 8 | 0 | 0 | 1 | 1 | 0 | 14 | 0 | 0 |
| April | 19.0 | SW. | 60 | W. | 7 | 2 | 10 | 5 | 6 | 8 | 13 | 8 | 8 | 0 | 11 | 8 | 11 | 13 | 12 | 1 | 0 | 4 | 0 | 0 | 2 | 3 | 0 |
| May | 17.1 | SW. | 53 | NE. | 3 | 4 | 10 | 8 | 4 | 7 | 18 | 8 | 3 | 0 | 15 | 4 | 12 | 12 | 11 | 0 | 0 | 4 | 0 | 0 | 0 | 6 | 0 |
| June | 15.3 | SW. | 42 | N. | 1 | 5 | 7 | 6 | 6 | 4 | 20 | 10 | 2 | 0 | 21 | 3 | 6 | 11 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 2 | 0 |
| July | 14.0 | SW. | 36 | NW. | 0 | 2 | 3 | 2 | 4 | 10 | 22 | 13 | 6 | 0 | 26 | 2 | 3 | 5 | 4 | 0 | 0 | 6 | 0 | 0 | 0 | 5 | 0 |
| August | 14.7 | SW. | 54 | E. | 1 | 2 | 6 | 10 | 7 | 3 | 17 | 8 | 9 | 0 | 19 | 4 | 8 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| September | 14.4 | SW. | 48 | NW. | 1 | 6 | 11 | 10 | 5 | 7 | 12 | 1 | 8 | 0 | 10 | 9 | 11 | 10 | 7 | 0 | 0 | 4 | 0 | 0 | 0 | 1 | 0 |
| October | 17.8 | SW. | 50 | NW. | 6 | 5 | 3 | 2 | 3 | 2 | 16 | 10 | 21 | 0 | 15 | 3 | 13 | 11 | 8 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| November | 20.7 | SW. | 72 | NE. | 8 | 7 | 9 | 2 | 5 | 8 | 10 | 9 | 10 | 0 | 9 | 7 | 14 | 10 | 8 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| December | 21.8 | NW. | 72 | NE. | 11 | 7 | 2 | 3 | 1 | 0 | 2 | 21 | 26 | 0 | 9 | 12 | 10 | 6 | 5 | 1 | 0 | 0 | 7 | 0 | 21 | 0 | 0 |
| Year | 18.3 | SW. | 72 | NE. | 70 | 55 | 84 | 55 | 49 | 59 | 166 | 121 | 141 | 0 | 166 | 64 | 135 | 121 | 93 | 8 | 0 | 36 | 17 | 0 | 74 | 18 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

## BOISE, IDAHO.

[$\phi$=43° 37′ N.; $\lambda$=116° 8′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | Extremes. | | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 27.071 | 27.565 | 26.394 | 33.8 | 39.8 | 43.6 | 29.3 | 36.4 | 56 | 10 | 27 | 27 | 76 | 61 | 0.150 | 0.153 | 4.33 | 0.98 | 7.5 | 8.5 | 7.9 |
| February | 27.113 | 27.447 | 26.718 | 37.5 | 42.4 | 45.6 | 33.7 | 39.6 | 58 | 23 | 26 | 27 | 65 | 54 | .141 | .145 | 1.92 | .53 | 9.2 | 8.1 | 8.4 |
| March | 27.115 | 27.397 | 26.736 | 37.3 | 50.9 | 53.4 | 34.3 | 43.8 | 65 | 24 | 28 | 26 | 70 | 40 | .155 | .145 | .64 | .27 | 6.3 | 6.4 | 6.2 |
| April | 27.187 | 27.674 | 26.904 | 36.9 | 56.2 | 57.7 | 34.6 | 46.2 | 69 | 23 | 26 | 21 | 63 | 25 | .139 | .114 | .15 | .15 | 5.0 | 5.4 | 5.0 |
| May | 27.110 | 27.419 | 26.849 | 44.1 | 64.2 | 65.7 | 41.4 | 53.6 | 84 | 30 | 32 | 30 | 66 | 30 | .188 | .175 | 1.00 | .44 | 4.5 | 4.1 | 4.3 |
| June | 27.104 | 27.295 | 26.842 | 54.4 | 78.1 | 80.1 | 52.6 | 66.4 | 97 | 41 | 43 | 39 | 66 | 27 | .279 | .249 | .78 | .42 | 3.4 | 3.9 | 3.7 |
| July | 27.098 | 27.361 | 26.745 | 58.6 | 84.8 | 86.4 | 56.6 | 71.5 | 101 | 47 | 41 | 37 | 54 | 19 | .264 | .229 | .03 | .02 | 2.2 | 2.6 | 2.5 |
| August | 27.109 | 27.280 | 26.889 | 59.0 | 86.4 | 88.8 | 56.8 | 72.8 | 99 | 45 | 37 | 36 | 45 | 19 | .225 | .226 | .01 | .01 | 2.2 | 2.2 | 2.0 |
| September | 27.199 | 27.455 | 26.886 | 54.8 | 71.6 | 75.8 | 50.4 | 63.1 | 91 | 36 | 42 | 40 | 64 | 35 | .282 | .263 | .51 | .18 | 4.8 | 4.2 | 4.5 |
| October | 27.233 | 27.557 | 26.893 | 44.8 | 61.4 | 65.2 | 41.3 | 53.2 | 75 | 29 | 34 | 36 | 66 | 40 | .195 | .214 | .73 | .24 | 3.7 | 5.9 | 5.1 |
| November | 27.199 | 27.668 | 26.838 | 40.7 | 46.0 | 50.9 | 37.1 | 44.0 | 69 | 21 | 34 | 35 | 78 | 65 | .201 | .207 | 3.41 | .80 | 7.4 | 7.5 | 7.7 |
| December | 27.271 | 27.718 | 26.623 | 25.2 | 28.9 | 33.1 | 21.8 | 27.4 | 49 | 12 | 21 | 23 | 84 | 78 | .115 | .123 | 1.55 | .65 | 7.7 | 7.2 | 8.3 |
| Year | 27.151 | 27.718 | 26.394 | 43.9 | 59.2 | 62.2 | 40.8 | 51.5 | 101 | 10 | 33 | 31 | 66 | 41 | .194 | .186 | 15.06 | .98 | 5.3 | 5.5 | 5.5 |

## BOSTON, MASS.

[$\phi$=42° 21′ N.; $\lambda$=71° 04′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.978 | 30.628 | 28.888 | 28.8 | 31.0 | 38.1 | 22.5 | 30.3 | 60 | 3 | 23 | 23 | 76 | 71 | 0.139 | 0.137 | 3.94 | 1.26 | 7.6 | 6.3 | 7.6 |
| February | 29.791 | 30.406 | 28.763 | 29.5 | 33.9 | 40.6 | 24.7 | 32.6 | 59 | 3 | 21 | 24 | 69 | 65 | .126 | .136 | 4.71 | 1.45 | 6.4 | 5.0 | 6.1 |
| March | 29.643 | 30.198 | 28.882 | 33.3 | 37.5 | 43.8 | 29.9 | 36.8 | 55 | 17 | 24 | 26 | 69 | 63 | .138 | .144 | 3.28 | 1.50 | 5.7 | 3.8 | 5.7 |
| April | 29.915 | 30.505 | 29.354 | 44.7 | 48.0 | 56.1 | 39.4 | 47.8 | 83 | 25 | 36 | 39 | 74 | 72 | .225 | .247 | 3.92 | 1.68 | 6.2 | 5.6 | 6.4 |
| May | 29.803 | 30.170 | 29.394 | 54.4 | 54.6 | 63.4 | 48.3 | 55.8 | 83 | 38 | 46 | 46 | 75 | 76 | .321 | .321 | 2.33 | 1.05 | 6.8 | 5.4 | 6.5 |
| June | 29.827 | 30.139 | 29.558 | 66.9 | 70.0 | 77.7 | 61.0 | 69.4 | 94 | 49 | 56 | 57 | 68 | 66 | .454 | .483 | 4.45 | 2.49 | 5.6 | 4.8 | 5.6 |
| July | 29.775 | 30.126 | 29.271 | 69.5 | 70.6 | 80.2 | 62.8 | 71.5 | 95 | 53 | 58 | 58 | 67 | 66 | .488 | .494 | .97 | .43 | 4.3 | 4.3 | 5.1 |
| August | 29.879 | 30.264 | 29.289 | 67.6 | 69.8 | 76.9 | 61.9 | 69.4 | 94 | 50 | 58 | 58 | 72 | 69 | .484 | .500 | 3.55 | 2.26 | 5.2 | 3.4 | 5.1 |
| September | 29.977 | 30.384 | 29.629 | 60.5 | 62.7 | 69.9 | 55.4 | 62.6 | 82 | 46 | 55 | 56 | 83 | 81 | .449 | .464 | 5.15 | 1.06 | 6.2 | 4.7 | 5.9 |
| October | 29.871 | 30.371 | 29.502 | 49.1 | 53.0 | 60.4 | 45.3 | 52.8 | 77 | 33 | 39 | 41 | 69 | 64 | .255 | .268 | 1.07 | .44 | 4.1 | 3.3 | 4.4 |
| November | 30.001 | 30.604 | 29.425 | 43.9 | 46.2 | 53.6 | 39.2 | 46.4 | 76 | 27 | 37 | 38 | 78 | 73 | .234 | .237 | 4.11 | 2.83 | 6.9 | 4.2 | 6.4 |
| December | 29.707 | 30.414 | 28.839 | 27.9 | 30.9 | 36.4 | 25.1 | 30.8 | 56 | 4 | 21 | 21 | 74 | 66 | .119 | .118 | 3.19 | 1.71 | 4.9 | 2.9 | 4.3 |
| Year | 29.847 | 30.628 | 28.763 | 48.0 | 50.7 | 58.1 | 43.0 | 50.5 | 95 | 3 | 40 | 41 | 73 | 69 | .286 | .296 | 40.67 | 2.83 | 5.8 | 4.5 | 5.8 |

## BRAWLEY, CAL.

[$\phi$=32° 59′ N.; $\lambda$=115° 31′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 30.142 | 30.342 | 29.866 | 46.6 | 65.4 | 70.8 | 43.0 | 56.9 | 80 | 33 | 39 | 44 | 76 | 47 | 0.244 | 0.296 | 0.02 | 0.02 | 2.4 | 5.4 | 4.4 |
| February | 30.147 | 30.444 | 29.782 | 46.9 | 67.3 | 71.2 | 42.9 | 57.0 | 84 | 32 | 36 | 40 | 67 | 40 | .213 | .259 | .23 | .12 | 2.5 | 4.3 | 3.7 |
| March | 30.049 | 30.298 | 29.810 | 49.9 | 70.1 | 73.6 | 46.5 | 60.0 | 82 | 35 | 36 | 36 | 60 | 32 | .216 | .218 | .56 | .46 | 2.9 | 3.3 | 3.1 |
| April | 30.013 | 30.386 | 29.725 | 56.1 | 83.0 | 86.2 | 52.9 | 69.6 | 99 | 46 | 39 | 34 | 55 | 18 | .243 | .201 | .00 | .00 | 1.3 | 1.2 | 1.2 |
| May | 29.892 | 30.059 | 29.729 | ..... | 89.0 | 91.5 | 57.2 | 74.4 | 105 | 50 | ..... | 33 | ..... | 15 | ..... | .190 | .00 | .00 | ..... | 1.6 | 1.6 |
| June | 29.844 | 29.961 | 29.618 | ..... | 101.0 | 103.1 | 66.2 | 84.6 | 112 | 60 | ..... | 40 | ..... | 14 | ..... | .265 | .00 | .00 | ..... | 1.0 | 1.0 |
| July | 29.837 | 29.900 | 29.557 | ..... | 104.2 | 106.4 | 72.3 | 89.4 | 115 | 61 | ..... | 51 | ..... | 19 | ..... | .400 | .34 | .34 | ..... | 1.4 | 2.2 |
| August | 29.874 | 29.979 | 29.701 | ..... | 98.9 | 102.3 | 76.9 | 89.6 | 111 | 72 | ..... | 64 | ..... | 37 | ..... | .614 | 1.43 | 1.22 | ..... | 3.8 | 3.9 |
| September | 29.928 | 30.033 | 29.713 | ..... | 95.1 | 98.8 | 67.5 | 83.2 | 105 | 56 | ..... | 49 | ..... | 24 | ..... | .381 | .31 | .31 | ..... | .8 | 1.3 |
| October | 30.024 | 30.162 | 29.804 | ..... | 84.2 | 90.0 | 53.3 | 71.6 | 98 | 46 | ..... | 41 | ..... | 23 | ..... | .265 | .00 | .00 | ..... | 1.0 | 1.2 |
| November | 30.117 | 30.362 | 29.813 | ..... | 68.3 | 76.6 | 43.5 | 60.0 | 93 | 34 | ..... | 38 | ..... | 35 | ..... | .233 | .21 | .21 | ..... | 3.2 | 2.6 |
| December | 30.172 | 30.476 | 29.786 | ..... | 55.5 | 61.4 | 37.5 | 49.4 | 74 | 24 | ..... | 32 | ..... | 44 | ..... | .193 | .59 | .34 | ..... | 6.4 | 5.7 |
| Year | 30.003 | 30.476 | 29.557 | ..... | 81.8 | 86.0 | 55.0 | 70.5 | 115 | 24 | ..... | 42 | ..... | 29 | ..... | .293 | 3.69 | 1.22 | ..... | 2.8 | 2.7 |

## BUFFALO, N. Y.

[$\phi$=42° 53′ N.; $\lambda$=78° 53′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.258 | 29.802 | 28.428 | 28.4 | 29.0 | 35.3 | 22.1 | 28.7 | 57 | 3 | 23 | 25 | 79 | 83 | 0.139 | 0.146 | 3.12 | 0.76 | 8.5 | 6.4 | 7.6 |
| February | 29.061 | 29.698 | 28.336 | 27.5 | 29.9 | 36.8 | 22.4 | 29.6 | 55 | −1 | 23 | 25 | 82 | 83 | .130 | .140 | 3.70 | .84 | 8.4 | 7.1 | 8.0 |
| March | 29.018 | 29.606 | 28.309 | 28.2 | 30.8 | 35.8 | 24.8 | 30.3 | 50 | 11 | 24 | 26 | 82 | 82 | .128 | .143 | 3.03 | .85 | 6.9 | 5.2 | 6.8 |
| April | 29.103 | 29.750 | 28.630 | 40.3 | 41.8 | 50.0 | 33.7 | 41.8 | 68 | 16 | 35 | 34 | 80 | 77 | .212 | .211 | 4.59 | 1.15 | 8.0 | 7.2 | 6.7 |
| May | 29.003 | 29.457 | 28.739 | 51.6 | 54.7 | 61.2 | 46.4 | 53.8 | 78 | 31 | 46 | 48 | 83 | 79 | .321 | .344 | 4.33 | 1.43 | 6.5 | 7.1 | 6.2 |
| June | 29.165 | 29.386 | 28.873 | 62.6 | 65.8 | 71.0 | 58.2 | 64.6 | 88 | 45 | 56 | 56 | 79 | 73 | .453 | .470 | 1.05 | .49 | 6.2 | 7.3 | 6.1 |
| July | 29.119 | 29.486 | 28.774 | 66.7 | 70.4 | 74.8 | 62.3 | 68.6 | 83 | 52 | 59 | 59 | 76 | 68 | .506 | .506 | 2.49 | .67 | 5.0 | 5.3 | 4.7 |
| August | 29.205 | 29.546 | 28.820 | 66.4 | 71.2 | 76.6 | 62.3 | 69.4 | 88 | 50 | 57 | 56 | 72 | 60 | .472 | .461 | 1.69 | .72 | 5.3 | 5.2 | 5.1 |
| September | 29.272 | 29.546 | 28.903 | 58.5 | 62.8 | 69.2 | 54.1 | 61.6 | 86 | 44 | 51 | 51 | 77 | 68 | .387 | .392 | 2.61 | .99 | 5.8 | 4.5 | 5.6 |
| October | 29.223 | 29.701 | 28.706 | 45.2 | 49.0 | 54.2 | 41.6 | 47.9 | 81 | 29 | 39 | 39 | 80 | 69 | .249 | .248 | 2.54 | 1.12 | 6.0 | 5.8 | 7.1 |
| November | 29.318 | 29.805 | 28.549 | 42.5 | 45.5 | 52.2 | 37.3 | 44.8 | 70 | 22 | 37 | 36 | 82 | 70 | .233 | .220 | 3.62 | 1.76 | 8.1 | 6.5 | 7.0 |
| December | 29.075 | 29.605 | 28.545 | 24.7 | 26.6 | 31.4 | 21.9 | 26.6 | 55 | 4 | 20 | 22 | 83 | 80 | .112 | .119 | 4.20 | 1.17 | 9.0 | 8.6 | 8.8 |
| Year | 29.164 | 29.805 | 28.309 | 45.2 | 48.1 | 54.0 | 40.6 | 47.3 | 88 | −1 | 39 | 40 | 80 | 74 | .278 | .283 | 36.97 | 1.76 | 7.0 | 6.3 | 6.6 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

## BOISE, IDAHO.

[H=2,739 ft.; $h_t$=78 ft.; $h_r$=72 ft.; $h_a$=86 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.01 inch and over. | Snow. | Hail. | Dense fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorm. | Aurora. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 7.0 | SE. | 31 | SE. | 0 | 4 | 9 | 6 | 23 | 5 | 3 | 4 | 8 | 0 | 4 | 6 | 21 | 19 | 14 | 9 | 1 | 1 | 4 | 0 | 18 | 1 | 0 |
| February | 7.9 | SE. | 30 | SE. | 0 | 5 | 1 | 10 | 22 | 7 | 3 | 3 | 5 | 0 | 2 | 2 | 24 | 15 | 13 | 10 | 0 | 0 | 0 | 0 | 10 | 0 | 0 |
| March | 6.1 | NW. | 29 | NW. | 0 | 12 | 5 | 4 | 10 | 5 | 2 | 12 | 12 | 0 | 10 | 6 | 15 | 10 | 4 | 1 | 0 | 1 | 0 | 0 | 9 | 0 | 0 |
| April | 7.4 | NW. | 29 | NW. | 0 | 13 | 5 | 0 | 10 | 3 | 3 | 3 | 23 | 0 | 8 | 16 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 |
| May | 6.2 | NW. | 27 | NW. | 0 | 9 | 3 | 5 | 9 | 3 | 1 | 12 | 19 | 1 | 13 | 11 | 7 | 7 | 4 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 0 |
| June | 5.4 | NW. | 27 | NW. | 0 | 9 | 3 | 3 | 9 | 5 | 1 | 11 | 18 | 1 | 14 | 13 | 3 | 4 | 2 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 |
| July | 5.1 | NW. | 27 | W. | 0 | 4 | 0 | 2 | 15 | 3 | 2 | 8 | 28 | 0 | 20 | 9 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 2 | 0 |
| August | 4.9 | NW. | 22 | SE. | 0 | 3 | 4 | 5 | 19 | 1 | 0 | 10 | 20 | 0 | 25 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 2 | 0 |
| September | 5.4 | NW. | 32 | W. | 0 | 6 | 3 | 3 | 14 | 7 | 0 | 13 | 14 | 0 | 12 | 12 | 6 | 8 | 5 | 0 | 0 | 0 | 0 | 2 | 0 | 7 | 0 |
| October | 4.3 | SE. | 28 | SE. | 0 | 11 | 3 | 3 | 16 | 4 | 1 | 10 | 14 | 0 | 10 | 11 | 10 | 5 | 5 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| November | 4.5 | NW. | 26 | NW. | 0 | 7 | 5 | 8 | 13 | 4 | 4 | 5 | 14 | 0 | 4 | 8 | 18 | 16 | 15 | 2 | 0 | 2 | 0 | 0 | 9 | 0 | 0 |
| December | 5.1 | NW. | 28 | SE. | 0 | 7 | 3 | 4 | 12 | 6 | 1 | 9 | 20 | 0 | 2 | 8 | 21 | 11 | 9 | 11 | 0 | 2 | 17 | 0 | 31 | 0 | 0 |
| Year | 5.8 | NW. | 32 | W. | 0 | 90 | 44 | 53 | 172 | 53 | 21 | 100 | 195 | 2 | 124 | 106 | 135 | 99 | 72 | 34 | 2 | 6 | 21 | 34 | 88 | 18 | 0 |

## BOSTON, MASS.

[H=125 ft.; $h_t$=115 ft.; $h_r$=154 ft.; $h_a$=188 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 11.8 | W. | 39 | NW. | 0 | 13 | 4 | 3 | 0 | 5 | 11 | 10 | 16 | 0 | 2 | 10 | 19 | 14 | 9 | 7 | 0 | 1 | 10 | 0 | 25 | 1 | 0 |
| February | 12.8 | W. | 43 | SW. | 3 | 8 | 3 | 5 | 4 | 2 | 10 | 16 | 8 | 0 | 8 | 9 | 11 | 10 | 9 | 2 | 0 | 0 | 3 | 0 | 21 | 0 | 0 |
| March | 12.7 | NW. | 40 | SE. | 2 | 1 | 3 | 4 | 5 | 1 | 7 | 20 | 21 | 0 | 13 | 5 | 13 | 12 | 9 | 7 | 0 | 1 | 2 | 0 | 19 | 1 | 0 |
| April | 12.1 | SW. | 43 | NW. | 1 | 7 | 7 | 3 | 8 | 6 | 13 | 8 | 8 | 0 | 8 | 10 | 12 | 12 | 10 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 |
| May | 10.9 | E. | 32 | NE. | 0 | 7 | 7 | 12 | 5 | 0 | 13 | 8 | 10 | 0 | 6 | 10 | 15 | 14 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |
| June | 9.9 | W. | 30 | NW. | 0 | 5 | 4 | 9 | 1 | 4 | 14 | 20 | 3 | 0 | 10 | 9 | 11 | 8 | 7 | 0 | 0 | 0 | 0 | 4 | 0 | 2 | 0 |
| July | 9.6 | W. | 32 | N. | 0 | 6 | 2 | 3 | 3 | 7 | 14 | 18 | 9 | 0 | 8 | 18 | 5 | 5 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 3 | 0 |
| August | 9.2 | W. | 35 | NE. | 0 | 8 | 5 | 10 | 5 | 5 | 5 | 12 | 12 | 0 | 12 | 12 | 7 | 8 | 7 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 1 |
| September | 8.5 | E. | 28 | W. | 0 | 6 | 5 | 12 | 4 | 4 | 15 | 7 | 7 | 0 | 8 | 9 | 13 | 12 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| October | 10.0 | W. | 30 | W. | 0 | 7 | 0 | 4 | 2 | 3 | 10 | 25 | 11 | 0 | 12 | 12 | 7 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| November | 10.4 | SW. | 38 | NE. | 0 | 6 | 7 | 2 | 2 | 8 | 10 | 13 | 12 | 0 | 6 | 8 | 16 | 9 | 8 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 |
| December | 12.6 | W. | 45 | NE. | 1 | 6 | 1 | 1 | 2 | 1 | 0 | 34 | 16 | 1 | 17 | 7 | 7 | 6 | 6 | 2 | 0 | 0 | 7 | 0 | 22 | 0 | 0 |
| Year | 10.9 | W. | 45 | NE. | 7 | 80 | 48 | 68 | 41 | 46 | 122 | 191 | 133 | 1 | 110 | 119 | 136 | 117 | 96 | 18 | 0 | 2 | 22 | 11 | 96 | 13 | 3 |

## BRAWLEY, CAL.

[H=−105 ft.; $h_t$=11 ft.; $h_r$=3 ft.; $h_a$=31 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 5.3 | NW. | 34 | SW. | 0 | 5 | 1 | 2 | 11 | 13 | 11 | 7 | 12 | 0 | 14 | 12 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 7.0 | NW. | 35 | W. | 0 | 3 | 3 | 2 | 7 | 9 | 7 | 13 | 12 | 0 | 14 | 11 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| March | 7.9 | NW. | 34 | NW. | 0 | 6 | 0 | 3 | 8 | 2 | 11 | 17 | 15 | 0 | 18 | 9 | 4 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| April | 9.0 | W. | 36 | W. | 0 | 1 | 0 | 1 | 7 | 7 | 13 | 15 | 16 | 0 | 26 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 |
| May | 8.7 | SW. | 38 | W. | 0 | 1 | 0 | 0 | 4 | 4 | 12 | 4 | 6 | 0 | 26 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 |
| June | 6.8 | SE. | 27 | SW. | 0 | 1 | 0 | 0 | 12 | 5 | 8 | 0 | 4 | 0 | 26 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 |
| July | 6.4 | SE. | 28 | SW. | 0 | 0 | 0 | 0 | 11 | 12 | 6 | 2 | 0 | 0 | 21 | 9 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 3 | 0 |
| August | 5.9 | SE. | 44 | NE. | 1 | 3 | 1 | 4 | 8 | 9 | 2 | 1 | 3 | 0 | 18 | 7 | 6 | 4 | 3 | 0 | 0 | 0 | 0 | 30 | 0 | 6 | 0 |
| September | 5.4 | SE. | 28 | SE. | 0 | 1 | 2 | 0 | 6 | 8 | 3 | 3 | 7 | 0 | 27 | 3 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 30 | 0 | 2 | 0 |
| October | 4.9 | NW. | 24 | W. | 0 | 9 | 0 | 1 | 5 | 3 | 7 | 1 | 5 | 0 | 27 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 |
| November | 5.4 | W. | 36 | SW. | 0 | 3 | 0 | 0 | 2 | 4 | 5 | 4 | 12 | 0 | 20 | 7 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| December | 4.7 | NW. | 27 | NW. | 0 | 8 | 2 | 1 | 5 | 0 | 0 | 8 | 7 | 0 | 10 | 8 | 13 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 |
| Year | 6.4 | NW. | 44 | NE. | 1 | 41 | 9 | 14 | 86 | 76 | 85 | 75 | 99 | 0 | 247 | 81 | 37 | 21 | 15 | 0 | 0 | 0 | 0 | 170 | 0 | 13 | 0 |

## BUFFALO, N. Y.

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 18.1 | SW. | 60 | SW. | 8 | 4 | 7 | 9 | 2 | 9 | 15 | 12 | 4 | 0 | 4 | 6 | 21 | 18 | 11 | 10 | 0 | 2 | 12 | 0 | 22 | 0 | 0 |
| February | 19.1 | W. | 66 | SW. | 9 | 4 | 5 | 6 | 4 | 6 | 15 | 13 | 3 | 0 | 2 | 7 | 19 | 21 | 15 | 14 | 0 | 1 | 11 | 0 | 26 | 0 | 0 |
| March | 15.7 | W. | 68 | SW. | 7 | 5 | 10 | 2 | 1 | 6 | 12 | 16 | 10 | 0 | 5 | 11 | 15 | 17 | 12 | 15 | 0 | 0 | 7 | 0 | 30 | 0 | 0 |
| April | 16.4 | SW. | 75 | SW. | 11 | 2 | 8 | 4 | 5 | 10 | 18 | 6 | 7 | 0 | 4 | 12 | 14 | 16 | 13 | 5 | 0 | 2 | 1 | 0 | 9 | 3 | 0 |
| May | 13.4 | SW. | 60 | SW. | 4 | 4 | 10 | 6 | 6 | 6 | 19 | 7 | 4 | 0 | 7 | 9 | 15 | 14 | 12 | 2 | 0 | 1 | 0 | 0 | 2 | 6 | 0 |
| June | 11.8 | SW. | 40 | SW. | 1 | 6 | 11 | 5 | 2 | 8 | 24 | 2 | 2 | 0 | 5 | 13 | 12 | 5 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 |
| July | 13.0 | SW. | 48 | SW. | 2 | 5 | 2 | 2 | 5 | 10 | 21 | 11 | 6 | 0 | 12 | 12 | 7 | 10 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 |
| August | 10.8 | SW. | 41 | W. | 1 | 10 | 12 | 5 | 1 | 13 | 10 | 7 | 4 | 0 | 11 | 8 | 12 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| September | 12.6 | S. | 50 | SW. | 2 | 9 | 8 | 5 | 6 | 8 | 7 | 10 | 7 | 0 | 9 | 11 | 10 | 11 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| October | 13.7 | W. | 56 | SW. | 3 | 4 | 6 | 3 | 3 | 10 | 10 | 19 | 7 | 0 | 7 | 5 | 19 | 12 | 8 | 1 | 0 | 0 | 0 | 0 | 4 | 1 | 1 |
| November | 15.3 | S. | 54 | W. | 4 | 6 | 9 | 8 | 1 | 13 | 11 | 7 | 5 | 0 | 6 | 7 | 17 | 11 | 11 | 2 | 0 | 2 | 2 | 0 | 10 | 0 | 0 |
| December | 20.0 | W. | 72 | W. | 11 | 1 | 6 | 7 | 4 | 3 | 7 | 28 | 6 | 0 | 2 | 2 | 27 | 21 | 17 | 20 | 0 | 1 | 20 | 0 | 29 | 0 | 0 |
| Year | 15.0 | SW. | 75 | SW. | 63 | 60 | 94 | 62 | 40 | 102 | 169 | 138 | 65 | 0 | 74 | 103 | 188 | 164 | 130 | 69 | 0 | 10 | 53 | 0 | 132 | 24 | 1 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

BURLINGTON, VT.

[$\phi$=44° 29′ N.; $\lambda$=73° 12′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | Extremes. | | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.666 | 30.364 | 28.941 | 17.9 | ..... | 27.9 | 9.3 | 18.6 | 46 | −18 | 13 | .... | 81 | .... | 0.100 | ..... | 2.38 | 0.61 | 7.8 | ..... | 7.2 |
| February | 29.472 | 30.110 | 28.539 | 17.2 | ..... | 29.5 | 10.4 | 20.0 | 48 | −14 | 12 | .... | 81 | .... | .087 | ..... | 4.18 | 1.17 | 6.4 | ..... | 6.2 |
| March | 29.352 | 29.900 | 28.629 | 22.8 | ..... | 34.7 | 18.9 | 26.8 | 48 | 1 | 17 | .... | 78 | .... | .098 | ..... | 1.81 | .46 | 5.8 | ..... | 6.1 |
| April | 29.586 | 30.114 | 29.101 | 36.9 | ..... | 47.8 | 31.5 | 39.6 | 70 | 21 | 31 | .... | 80 | .... | .181 | ..... | 2.67 | .68 | 6.4 | ..... | 7.2 |
| May | 29.482 | 29.823 | 29.183 | 51.0 | ..... | 61.2 | 44.0 | 52.6 | 77 | 34 | 44 | .... | 77 | .... | .291 | ..... | 5.58 | 1.92 | 7.3 | ..... | 6.9 |
| June | 29.523 | 29.868 | 29.319 | 62.5 | ..... | 74.5 | 54.4 | 64.4 | 88 | 40 | 52 | .... | 70 | .... | .404 | ..... | 3.57 | 1.96 | 5.7 | ..... | 5.6 |
| July | 29.447 | 29.848 | 29.010 | 64.9 | ..... | 75.5 | 57.2 | 66.4 | 88 | 45 | 55 | .... | 72 | .... | .441 | ..... | 4.06 | 2.48 | 5.5 | ..... | 6.0 |
| August | 29.584 | 29.948 | 29.079 | 63.1 | ..... | 75.5 | 55.0 | 65.2 | 92 | 38 | 54 | .... | 74 | .... | .429 | ..... | 2.83 | 1.18 | 5.8 | ..... | 6.1 |
| September | 29.656 | 30.086 | 29.256 | 55.7 | ..... | 67.6 | 48.6 | 58.1 | 81 | 36 | 50 | .... | 82 | .... | .367 | ..... | 4.36 | 1.52 | 6.4 | ..... | 6.3 |
| October | 29.556 | 30.059 | 29.159 | 43.4 | ..... | 54.1 | 38.2 | 46.2 | 81 | 24 | 37 | .... | 78 | .... | .231 | ..... | 1.13 | .64 | 6.5 | ..... | 6.3 |
| November | 29.710 | 30.305 | 29.119 | 35.8 | ..... | 45.9 | 30.8 | 38.4 | 65 | 11 | 30 | .... | 78 | .... | .173 | ..... | 1.66 | .55 | 6.9 | ..... | 7.5 |
| December | 29.428 | 30.104 | 28.937 | 20.9 | ..... | 26.2 | 16.3 | 21.2 | 42 | − 8 | 16 | .... | 81 | .... | .093 | ..... | 1.53 | .56 | 8.4 | ..... | 8.3 |
| Year | 29.538 | 30.364 | 28.539 | 41.0 | ..... | 51.7 | 34.6 | 43.1 | 92 | −18 | 34 | .... | 78 | .... | .241 | ..... | 35.76 | 2.48 | 6.6 | ..... | 6.6 |

CAIRO, ILL.

[$\phi$=37° 0′ N.; $\lambda$=89° 10′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.803 | 30.254 | 29.040 | 34.9 | 39.0 | 44.6 | 30.2 | 37.4 | 72 | 5 | 28 | 30 | 76 | 73 | 0.184 | 0.195 | 2.54 | 1.32 | 8.0 | 7.5 | 8.2 |
| February | 29.602 | 30.287 | 28.894 | 38.3 | 46.8 | 52.7 | 34.9 | 43.8 | 68 | 13 | 32 | 34 | 77 | 64 | .198 | .213 | 6.76 | 3.20 | 5.1 | 5.7 | 6.2 |
| March | 29.577 | 30.020 | 28.990 | 43.1 | 51.1 | 55.0 | 40.2 | 47.6 | 67 | 28 | 35 | 37 | 73 | 59 | .211 | .226 | 7.10 | 3.06 | 6.1 | 6.3 | 6.5 |
| April | 29.634 | 30.014 | 29.078 | 52.8 | 60.8 | 67.0 | 48.2 | 57.6 | 81 | 34 | 42 | 43 | 68 | 54 | .291 | .206 | 4.85 | 2.13 | 4.3 | 5.6 | 5.5 |
| May | 29.541 | 29.833 | 29.326 | 60.5 | 68.5 | 73.8 | 57.1 | 65.4 | 84 | 40 | 52 | 54 | 75 | 62 | .407 | .440 | 3.96 | .97 | 5.9 | 5.2 | 5.8 |
| June | 29.608 | 29.841 | 29.324 | 70.9 | 78.9 | 85.4 | 68.3 | 76.8 | 92 | 61 | 65 | 66 | 82 | 67 | .623 | .655 | 1.88 | .44 | 4.6 | 7.4 | 5.6 |
| July | 29.593 | 29.920 | 29.389 | 73.8 | 81.6 | 86.7 | 71.2 | 79.0 | 94 | 63 | 66 | 68 | 78 | 66 | .657 | .708 | 3.13 | 2.03 | 4.0 | 4.4 | 4.4 |
| August | 29.632 | 29.854 | 29.343 | 74.1 | 84.7 | 90.1 | 71.9 | 81.0 | 99 | 61 | 67 | 68 | 80 | 58 | .675 | .701 | .01 | .01 | 2.0 | 1.8 | 1.9 |
| September | 29.702 | 30.000 | 29.079 | 62.9 | 72.6 | 78.5 | 60.7 | 69.6 | 90 | 45 | 57 | 60 | 83 | 65 | .493 | .540 | 5.66 | 1.55 | 4.1 | 3.2 | 3.6 |
| October | 29.732 | 30.062 | 29.412 | 50.8 | 61.7 | 70.2 | 48.8 | 59.5 | 88 | 33 | 43 | 46 | 77 | 58 | .295 | .336 | .74 | .46 | 2.5 | 3.5 | 3.1 |
| November | 29.783 | 30.137 | 29.380 | 51.6 | 59.3 | 66.4 | 48.2 | 57.3 | 82 | 28 | 43 | 46 | 73 | 64 | .303 | .329 | 2.58 | .80 | 4.7 | 4.1 | 5.6 |
| December | 29.720 | 30.157 | 29.348 | 27.9 | 33.4 | 38.0 | 24.1 | 31.0 | 72 | 4 | 23 | 25 | 80 | 70 | .142 | .152 | 3.84 | 1.49 | 6.0 | 5.3 | 6.5 |
| Year | 29.661 | 30.287 | 28.894 | 53.5 | 61.5 | 67.4 | 50.3 | 58.8 | 99 | 4 | 46 | 48 | 77 | 63 | .373 | .399 | 43.05 | 3.20 | 4.8 | 5.0 | 5.2 |

CANTON, N. Y.

[$\phi$=44° 36′ N.; $\lambda$=75° 10′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.626 | 30.295 | 28.868 | 16.6 | ..... | 27.9 | 8.7 | 18.3 | 48 | −23 | 12 | .... | 80 | .... | 0.093 | ..... | 3.00 | 0.85 | 7.6 | ..... | 8.0 |
| February | 29.425 | 30.032 | 28.573 | 18.1 | ..... | 30.6 | 10.1 | 20.4 | 54 | −15 | 13 | .... | 80 | .... | .092 | ..... | 3.82 | .95 | 7.0 | ..... | 7.1 |
| March | 29.336 | 29.903 | 28.567 | 21.8 | ..... | 32.7 | 17.2 | 25.0 | 45 | 1 | 16 | .... | 77 | .... | .093 | ..... | 3.25 | 1.26 | 6.1 | ..... | 6.1 |
| April | 29.544 | 30.126 | 29.027 | 37.1 | ..... | 48.5 | 31.1 | 39.8 | 72 | 17 | 28 | .... | 71 | .... | .105 | ..... | 3.39 | .74 | 7.7 | ..... | 7.1 |
| May | 29.438 | 29.795 | 28.991 | 50.5 | ..... | 62.2 | 44.4 | 53.3 | 76 | 34 | 43 | .... | 76 | .... | .283 | ..... | 5.27 | 1.38 | 7.1 | ..... | 6.5 |
| June | 29.494 | 29.834 | 29.258 | 62.6 | ..... | 74.4 | 53.9 | 64.2 | 85 | 40 | 52 | .... | 68 | .... | .390 | ..... | 1.51 | .92 | 4.0 | ..... | 4.0 |
| July | 29.416 | 29.701 | 29.069 | 65.1 | ..... | 75.9 | 56.0 | 66.0 | 88 | 42 | 55 | .... | 71 | .... | .444 | ..... | 3.35 | .84 | 5.9 | ..... | 5.0 |
| August | 29.546 | 29.879 | 29.109 | 64.1 | ..... | 77.6 | 54.5 | 66.0 | 90 | 41 | 55 | .... | 73 | .... | .438 | ..... | 2.59 | 1.10 | 4.5 | ..... | 3.9 |
| September | 29.612 | 30.015 | 29.245 | 55.6 | ..... | 67.8 | 46.8 | 57.3 | 86 | 36 | 50 | .... | 81 | .... | .367 | ..... | 3.25 | .76 | 5.5 | ..... | 5.7 |
| October | 29.538 | 30.062 | 29.130 | 42.1 | ..... | 53.4 | 37.3 | 45.4 | 81 | 21 | 37 | .... | 83 | .... | .232 | ..... | 1.33 | .39 | 6.9 | ..... | 6.8 |
| November | 29.678 | 30.254 | 29.077 | 35.8 | ..... | 45.5 | 28.9 | 37.2 | 69 | 12 | 30 | .... | 81 | .... | .180 | ..... | 3.35 | 1.33 | 7.6 | ..... | 6.6 |
| December | 29.413 | 30.061 | 29.018 | 19.2 | ..... | 25.7 | 13.9 | 19.8 | 42 | −13 | 18 | .... | 93 | .... | .099 | ..... | 1.29 | .34 | 9.3 | ..... | 8.8 |
| Year | 29.506 | 30.295 | 28.567 | 40.7 | ..... | 51.8 | 33.6 | 42.7 | 90 | −23 | 34 | .... | 78 | .... | .240 | ..... | 35.40 | 1.38 | 6.6 | ..... | 6.3 |

CHARLES CITY, IOWA.

[$\phi$=43° 04′ N.; $\lambda$=92° 38′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.031 | 29.486 | 28.190 | 14.8 | 18.8 | 25.6 | 8.7 | 17.2 | 53 | −23 | 14 | 17 | 96 | 91 | 0.098 | 0.110 | 1.99 | 1.29 | 5.5 | 5.0 | 7.7 |
| February | 28.834 | 29.410 | 28.063 | 16.2 | 23.8 | 29.6 | 12.5 | 21.0 | 45 | − 6 | 15 | 21 | 94 | 88 | .099 | .119 | 1.54 | .76 | 7.1 | 5.7 | 7.2 |
| March | 28.888 | 29.412 | 28.452 | 24.4 | 31.3 | 35.7 | 20.3 | 28.0 | 49 | −12 | 22 | 26 | 89 | 80 | .118 | .143 | 2.11 | 1.42 | 6.5 | 6.6 | 7.1 |
| April | 28.852 | 29.265 | 28.315 | 34.6 | 44.1 | 48.9 | 31.5 | 40.2 | 68 | 20 | 31 | 34 | 88 | 68 | .180 | .203 | 5.42 | 2.18 | 6.5 | 7.5 | 7.4 |
| May | 28.805 | 29.075 | 28.342 | 49.8 | 61.9 | 66.7 | 45.4 | 56.0 | 91 | 26 | 44 | 46 | 79 | 58 | .294 | .326 | 3.46 | 1.29 | 6.6 | 6.7 | 7.2 |
| June | 28.922 | 29.225 | 28.668 | 61.4 | 72.2 | 77.7 | 56.5 | 67.1 | 90 | 45 | 58 | 61 | 88 | 70 | .490 | .543 | 5.42 | 1.31 | 6.6 | 5.9 | 6.4 |
| July | 28.912 | 29.219 | 28.523 | 64.8 | 76.7 | 80.5 | 60.6 | 70.6 | 93 | 53 | 61 | 65 | 86 | 68 | .540 | .625 | 1.68 | .76 | 6.1 | 5.3 | 6.3 |
| August | 28.951 | 29.299 | 28.728 | 65.8 | 78.5 | 85.1 | 62.3 | 73.7 | 93 | 44 | 62 | 67 | 88 | 68 | .574 | .674 | 6.88 | 2.74 | 4.6 | 3.6 | 4.2 |
| September | 29.022 | 29.527 | 28.523 | 52.2 | 62.4 | 70.4 | 49.1 | 59.8 | 84 | 36 | 50 | 56 | 93 | 80 | .379 | .462 | 3.12 | 1.66 | 5.2 | 4.8 | 5.8 |
| October | 28.967 | 29.494 | 28.538 | 39.4 | 49.2 | 57.4 | 36.6 | 47.0 | 82 | 17 | 36 | 40 | 86 | 70 | .219 | .271 | 2.48 | 1.55 | 4.2 | 5.7 | 5.3 |
| November | 28.976 | 29.490 | 28.462 | 35.2 | 40.9 | 48.8 | 29.0 | 38.9 | 69 | 4 | 33 | 36 | 92 | 83 | .211 | .229 | 6.09 | 1.79 | 6.1 | 6.4 | 7.4 |
| December | 28.917 | 29.328 | 28.543 | 11.6 | 14.3 | 20.2 | 6.5 | 13.4 | 48 | −16 | 11 | 13 | 96 | 93 | .081 | .087 | 1.87 | .44 | 7.5 | 6.4 | 8.2 |
| Year | 28.923 | 29.527 | 28.063 | 39.2 | 47.8 | 53.9 | 34.9 | 44.4 | 93 | −23 | 36 | 40 | 90 | 76 | .273 | .316 | 42.06 | 2.74 | 6.0 | 5.8 | 6.7 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

## BURLINGTON, VT.

[H=404 ft.; $h_t$=11 ft.; $h_r$=3 ft.; $h_a$=48 ft.]

| Month. | Wind. | | | | | | | | | | | | | | | Number of days. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | By self-register. | | | | | Number of winds, 8 a. m. and 8 p. m. | | | | | | | | | | | | | Precipitation. | | | | | Maximum temp. | | | Electricity. | |
| | Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Clear. | Partly cloudy. | Cloudy. | 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Dense fog. | 32° or below. | 90° or above. | Minimum temperature below. | Thunderstorm. | Aurora. |
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 14.8 | S. | 54 | S. | 4 | 3 | 1 | 1 | 8 | 13 | 0 | 1 | 9 | 0 | 6 | 8 | 17 | 14 | 12 | 8 | 0 | 3 | 17 | 0 | 28 | 1 | 0 |
| February | 13.1 | S. | 48 | W. | 3 | 4 | 3 | 1 | 3 | 10 | 1 | 1 | 5 | 0 | 9 | 5 | 14 | 13 | 9 | 8 | 0 | 0 | 16 | 0 | 28 | 0 | 0 |
| March | 10.6 | NW. | 48 | SE. | 1 | 1 | 4 | 3 | 6 | 8 | 0 | 2 | 7 | 0 | 6 | 14 | 11 | 12 | 11 | 10 | 0 | 0 | 11 | 0 | 31 | 0 | 0 |
| April | 14.4 | S. | 55 | S. | 8 | 3 | 1 | 2 | 4 | 10 | 1 | 2 | 7 | 0 | 3 | 14 | 13 | 16 | 10 | 3 | 0 | 2 | 1 | 0 | 19 | 1 | 0 |
| May | 10.5 | S. | 40 | S. | 1 | 6 | 1 | 1 | 3 | 14 | 2 | 0 | 4 | 0 | 6 | 7 | 18 | 15 | 11 | 6 | 0 | 1 | 0 | 0 | 0 | 3 | 0 |
| June | 9.7 | S. | 38 | S. | 0 | 3 | 0 | 1 | 1 | 16 | 1 | 3 | 5 | 0 | 7 | 13 | 10 | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 |
| July | 10.7 | S. | 39 | S. | 0 | 2 | 1 | 2 | 1 | 13 | 5 | 1 | 6 | 0 | 6 | 14 | 11 | 14 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| August | 8.9 | S. | 38 | S. | 0 | 4 | 2 | 1 | 3 | 16 | 2 | 0 | 3 | 0 | 6 | 14 | 11 | 13 | 9 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 |
| September | 10.7 | S. | 38 | S. | 0 | 5 | 0 | 2 | 3 | 16 | 0 | 0 | 4 | 0 | 6 | 11 | 13 | 12 | 9 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 |
| October | 10.3 | S. | 38 | S. | 0 | 3 | 0 | 4 | 2 | 14 | 0 | 3 | 5 | 0 | 9 | 6 | 16 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 |
| November | 14.5 | S. | 50 | S. | 4 | 6 | 1 | 3 | 2 | 12 | 0 | 0 | 6 | 0 | 5 | 8 | 17 | 13 | 10 | 4 | 0 | 1 | 3 | 0 | 15 | 0 | 0 |
| December | 10.5 | NW. | 50 | SE. | 2 | 5 | 4 | 3 | 2 | 6 | 1 | 2 | 8 | 0 | 4 | 4 | 23 | 17 | 10 | 17 | 0 | 0 | 23 | 0 | 30 | 0 | 1 |
| Year | 11.6 | S. | 55 | S. | 23 | 45 | 18 | 24 | 33 | 148 | 13 | 15 | 69 | 0 | 73 | 118 | 174 | 155 | 111 | 50 | 0 | 9 | 71 | 1 | 158 | 19 | 2 |

## CAIRO, ILL.

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 11.6 | S. | 56 | W. | 2 | 13 | 11 | 4 | 6 | 16 | 5 | 2 | 4 | 1 | 4 | 2 | 25 | 12 | 10 | 4 | 1 | 2 | 9 | 0 | 18 | 1 | 0 |
| February | 12.0 | S. | 38 | SW. | 0 | 5 | 5 | 3 | 6 | 16 | 8 | 8 | 5 | 0 | 6 | 11 | 11 | 14 | 10 | 2 | 0 | 1 | 1 | 0 | 9 | 5 | 0 |
| March | 10.9 | N. | 40 | SW. | 1 | 11 | 11 | 6 | 4 | 10 | 6 | 7 | 7 | 0 | 7 | 8 | 16 | 10 | 8 | 0 | 1 | 1 | 0 | 0 | 3 | 6 | 0 |
| April | 12.4 | S. | 42 | S. | 2 | 7 | 7 | 8 | 5 | 20 | 5 | 1 | 7 | 0 | 9 | 12 | 9 | 9 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| May | 9.8 | S. | 38 | N. | 0 | 7 | 9 | 6 | 8 | 14 | 13 | 4 | 1 | 0 | 9 | 9 | 13 | 12 | 10 | 0 | 1 | 0 | 0 | 0 | 0 | 8 | 0 |
| June | 6.7 | SW. | 35 | SW. | 0 | 8 | 8 | 2 | 4 | 9 | 20 | 4 | 5 | 0 | 5 | 17 | 8 | 10 | 8 | 0 | 0 | 0 | 0 | 0 | 7 | 13 | 0 |
| July | 7.2 | S. | 30 | NW. | 0 | 6 | 9 | 12 | 4 | 13 | 11 | 6 | 1 | 0 | 15 | 7 | 9 | 7 | 7 | 0 | 0 | 0 | 0 | 8 | 0 | 11 | 0 |
| August | 5.5 | NE. | 24 | NE. | 0 | 7 | 21 | 4 | 5 | 11 | 10 | 2 | 1 | 1 | 24 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 2 | 0 |
| September | 8.3 | NE. | 38 | N. | 0 | 13 | 19 | 8 | 6 | 7 | 5 | 1 | 1 | 0 | 17 | 4 | 9 | 11 | 8 | 0 | 0 | 0 | 0 | 1 | 0 | 5 | 0 |
| October | 8.3 | S. | 32 | NW. | 0 | 4 | 10 | 1 | 11 | 15 | 11 | 5 | 4 | 1 | 17 | 10 | 4 | 6 | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 |
| November | 10.0 | S. | 40 | SW. | 1 | 4 | 8 | 5 | 10 | 23 | 5 | 1 | 3 | 1 | 11 | 7 | 12 | 7 | 5 | 0 | 0 | 1 | 0 | 0 | 2 | 3 | 0 |
| December | 9.3 | NW. | 41 | W. | 1 | 6 | 9 | 2 | 9 | 9 | 8 | 6 | 13 | 0 | 7 | 9 | 15 | 12 | 11 | 4 | 0 | 2 | 10 | 0 | 26 | 2 | 0 |
| Year | 9.3 | S. | 56 | W. | 7 | 91 | 127 | 61 | 78 | 163 | 107 | 47 | 52 | 4 | 131 | 102 | 132 | 111 | 88 | 10 | 3 | 9 | 20 | 33 | 58 | 62 | 0 |

## CANTON, N. Y.

[H=448 ft.; $h_t$=10 ft.; $h_r$=4 ft.; $h_a$=71 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 12.6 | SW. | 46 | W. | 3 | 0 | 8 | 1 | 3 | 1 | 7 | 5 | 6 | 0 | 3 | 8 | 20 | 15 | 13 | 8 | 0 | 2 | 15 | 0 | 28 | 1 | 1 |
| February | 14.6 | SW. | 72 | W. | 5 | 1 | 9 | 1 | 2 | 0 | 7 | 6 | 2 | 0 | 3 | 11 | 14 | 16 | 13 | 11 | 0 | 0 | 16 | 0 | 27 | 0 | 0 |
| March | 12.2 | W. | 47 | SW. | 3 | 2 | 3 | 2 | 3 | 6 | 5 | 7 | 3 | 0 | 9 | 10 | 12 | 17 | 14 | 14 | 0 | 0 | 14 | 0 | 31 | 0 | 2 |
| April | 13.7 | W. | 65 | W. | 7 | 3 | 5 | 2 | 3 | 2 | 8 | 6 | 1 | 0 | 3 | 10 | 17 | 18 | 15 | 6 | 0 | 0 | 1 | 0 | 20 | 1 | 2 |
| May | 10.8 | SW. | 50 | SW. | 3 | 3 | 3 | 6 | 0 | 3 | 7 | 5 | 4 | 0 | 6 | 12 | 13 | 17 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | 2 |
| June | 11.1 | SW. | 45 | SW. | 1 | 1 | 4 | 3 | 0 | 3 | 10 | 8 | 1 | 0 | 14 | 12 | 4 | 9 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| July | 9.8 | SW. | 44 | SW. | 1 | 3 | 1 | 1 | 1 | 4 | 12 | 7 | 2 | 0 | 12 | 11 | 8 | 16 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| August | 8.4 | SW. | 40 | SW. | 1 | 3 | 1 | 2 | 2 | 5 | 12 | 2 | 4 | 0 | 15 | 11 | 5 | 10 | 6 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 |
| September | 9.5 | SW. | 34 | SW. | 0 | 3 | 2 | 2 | 5 | 6 | 6 | 5 | 1 | 0 | 7 | 14 | 9 | 12 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |
| October | 10.3 | W. | 40 | W. | 1 | 3 | 1 | 1 | 1 | 4 | 11 | 8 | 2 | 0 | 9 | 3 | 19 | 13 | 10 | 0 | 2 | 0 | 0 | 0 | 9 | 1 | 1 |
| November | 11.7 | SW. | 54 | SW. | 3 | 3 | 5 | 2 | 1 | 3 | 11 | 4 | 1 | 0 | 9 | 5 | 16 | 16 | 12 | 6 | 0 | 2 | 4 | 0 | 18 | 0 | 1 |
| December | 11.4 | W. | 48 | W. | 2 | 0 | 5 | 3 | 0 | 1 | 10 | 11 | 1 | 0 | 1 | 4 | 26 | 18 | 8 | 17 | 0 | 0 | 24 | 0 | 31 | 0 | 1 |
| Year | 11.3 | SW. | 72 | W. | 30 | 25 | 47 | 26 | 21 | 38 | 106 | 74 | 28 | 0 | 91 | 111 | 163 | 177 | 134 | 63 | 2 | 4 | 74 | 1 | 164 | 21 | 12 |

## CHARLES CITY, IOWA.

[H=1,015 ft.; $h_t$=10 ft.; $h_r$=4 ft.; $h_a$=49 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 8.6 | S. | 36 | N. | 0 | 7 | 2 | 1 | 14 | 16 | 6 | 1 | 15 | 0 | 5 | 5 | 21 | 10 | 4 | 10 | 0 | 6 | 18 | 0 | 28 | 0 | 0 |
| February | 8.2 | S. | 30 | E. | 0 | 8 | 8 | 3 | 8 | 8 | 7 | 1 | 13 | 0 | 4 | 9 | 15 | 8 | 7 | 12 | 0 | 1 | 15 | 0 | 28 | 0 | 0 |
| March | 7.5 | NW. | 26 | NW. | 0 | 9 | 10 | 2 | 8 | 4 | 3 | 3 | 23 | 0 | 3 | 14 | 14 | 6 | 5 | 11 | 0 | 0 | 8 | 0 | 30 | 0 | 0 |
| April | 10.0 | NW. | 36 | S. | 0 | 9 | 14 | 1 | 13 | 2 | 5 | 2 | 14 | 0 | 3 | 12 | 15 | 16 | 14 | 7 | 0 | 1 | 1 | 0 | 14 | 6 | 0 |
| May | 8.2 | SE. | 30 | NW. | 0 | 9 | 1 | 10 | 17 | 7 | 6 | 1 | 10 | 1 | 3 | 13 | 15 | 13 | 11 | 2 | 0 | 0 | 0 | 1 | 5 | 7 | 0 |
| June | 5.4 | S. | 29 | NW. | 0 | 11 | 8 | 6 | 11 | 11 | 8 | 0 | 4 | 1 | 6 | 10 | 14 | 16 | 13 | 0 | 2 | 0 | 0 | 0 | 0 | 11 | 0 |
| July | 5.9 | SW. | 24 | SW. | 0 | 7 | 2 | 2 | 15 | 7 | 13 | 3 | 12 | 1 | 6 | 13 | 12 | 9 | 8 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 0 |
| August | 5.2 | S. | 25 | NW. | 0 | 8 | 3 | 1 | 18 | 10 | 8 | 3 | 9 | 2 | 15 | 9 | 7 | 10 | 10 | 0 | 1 | 0 | 0 | 6 | 0 | 11 | 0 |
| September | 4.9 | SE. | 26 | SW. | 0 | 6 | 2 | 3 | 16 | 10 | 4 | 4 | 13 | 2 | 7 | 11 | 12 | 9 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 |
| October | 7.5 | NW. | 26 | NW. | 0 | 6 | 3 | 1 | 17 | 12 | 3 | 3 | 16 | 1 | 13 | 8 | 10 | 8 | 3 | 2 | 0 | 1 | 1 | 0 | 14 | 2 | 1 |
| November | 8.1 | SE. | 30 | SW. | 0 | 3 | 9 | 3 | 15 | 7 | 9 | 2 | 12 | 0 | 5 | 7 | 18 | 14 | 14 | 5 | 0 | 2 | 4 | 0 | 17 | 2 | 0 |
| December | 7.7 | NW. | 26 | NW. | 0 | 1 | 4 | 1 | 11 | 4 | 3 | 11 | 27 | 0 | 3 | 7 | 21 | 16 | 13 | 19 | 0 | 0 | 26 | 0 | 28 | 0 | 0 |
| Year | 7.3 | S. | 36 | NW. | 0 | 84 | 66 | 34 | 163 | 98 | 75 | 34 | 168 | 8 | 73 | 118 | 174 | 135 | 109 | 68 | 3 | 12 | 73 | 9 | 164 | 40 | 1 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

CHARLESTON, S. C.

[$\phi$=32° 47′ N.; $\lambda$=79° 56′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 30.114 | 30.368 | 29.412 | 48.3 | 53.0 | 61.0 | 46.2 | 53.6 | 78 | 19 | 44 | 46 | 86 | 78 | 0.308 | 0.326 | 0.61 | 0.45 | 4.5 | 3.7 | 5.5 |
| February | 30.057 | 30.464 | 29.649 | 49.2 | 55.5 | 64.0 | 46.0 | 55.0 | 75 | 24 | 42 | 44 | 75 | 69 | .295 | .319 | 1.86 | .47 | 4.2 | 2.1 | 4.1 |
| March | 29.894 | 30.260 | 29.374 | 53.7 | 57.6 | 65.7 | 50.5 | 58.1 | 77 | 41 | 46 | 47 | 77 | 72 | .334 | .349 | 5.89 | 1.97 | 5.1 | 3.3 | 5.0 |
| April | 30.042 | 30.448 | 29.763 | 62.2 | 65.3 | 71.9 | 58.9 | 65.4 | 84 | 43 | 55 | 57 | 78 | 76 | .455 | .485 | 3.58 | 1.48 | 5.4 | 4.5 | 5.1 |
| May | 29.922 | 30.190 | 29.630 | 69.2 | 71.4 | 78.3 | 64.9 | 71.6 | 90 | 52 | 61 | 63 | 76 | 76 | .556 | .586 | 1.54 | .59 | 4.2 | 5.1 | 4.7 |
| June | 29.977 | 30.192 | 29.712 | 79.1 | 79.2 | 85.8 | 74.9 | 80.4 | 92 | 68 | 72 | 72 | 78 | 79 | .777 | .788 | 1.64 | .64 | 4.6 | 5.0 | 5.0 |
| July | 29.959 | 30.207 | 29.584 | 78.5 | 78.8 | 86.1 | 74.4 | 80.2 | 94 | 69 | 70 | 70 | 76 | 76 | .737 | .749 | 4.17 | 1.60 | 4.2 | 5.1 | 5.1 |
| August | 29.949 | 30.188 | 29.524 | 77.9 | 79.6 | 86.2 | 74.1 | 80.2 | 94 | 71 | 73 | 73 | 85 | 80 | .815 | .805 | 7.85 | 2.22 | 3.3 | 4.7 | 5.0 |
| September | 29.992 | 30.143 | 29.786 | 71.2 | 74.7 | 79.9 | 68.7 | 74.3 | 90 | 54 | 68 | 68 | 89 | 79 | .688 | .692 | 5.35 | 1.72 | 4.8 | 4.8 | 4.8 |
| October | 30.078 | 30.354 | 29.613 | 60.6 | 66.2 | 73.3 | 57.5 | 65.4 | 81 | 43 | 56 | 58 | 86 | 76 | .470 | .499 | 2.00 | 1.28 | 2.0 | 1.8 | 2.5 |
| November | 30.169 | 30.489 | 29.587 | 55.9 | 62.0 | 69.4 | 53.4 | 61.4 | 83 | 38 | 50 | 54 | 81 | 76 | .384 | .436 | 2.44 | 1.65 | 3.6 | 1.1 | 3.8 |
| December | 30.011 | 30.347 | 29.552 | 42.0 | 48.6 | 55.4 | 39.0 | 47.2 | 68 | 18 | 35 | 37 | 76 | 65 | .225 | .243 | 1.75 | 1.03 | 2.9 | 3.2 | 3.5 |
| Year | 30.014 | 30.489 | 29.374 | 62.3 | 66.0 | 73.1 | 59.0 | 66.1 | 94 | 18 | 56 | 57 | 80 | 75 | .504 | .523 | 38.68 | 2.22 | 4.1 | 3.7 | 4.5 |

CHARLOTTE, N. C.

[$\phi$=35° 13′ N.; $\lambda$=80° 51′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.329 | 29.618 | 28.459 | 39.8 | 47.5 | 54.0 | 36.4 | 45.2 | 75 | 14 | 36 | 37 | 85 | 67 | 0.227 | 0.242 | 1.64 | 0.85 | 5.8 | 4.8 | 5.9 |
| February | 29.209 | 29.675 | 28.681 | 42.7 | 52.2 | 58.8 | 39.0 | 48.9 | 72 | 16 | 36 | 35 | 77 | 55 | .239 | .233 | 3.64 | 1.42 | 5.0 | 4.9 | 5.2 |
| March | 29.093 | 29.513 | 28.470 | 44.6 | 52.8 | 58.8 | 40.7 | 49.8 | 78 | 32 | 38 | 36 | 79 | 55 | .243 | .223 | 2.86 | .69 | 6.3 | 5.1 | 5.6 |
| April | 29.250 | 29.748 | 28.937 | 55.9 | 64.5 | 71.2 | 52.1 | 61.6 | 83 | 33 | 47 | 45 | 73 | 52 | .346 | .314 | 3.99 | 2.22 | 5.9 | 4.5 | 5.5 |
| May | 29.143 | 29.426 | 28.825 | 62.1 | 69.6 | 76.5 | 57.0 | 66.8 | 89 | 42 | 54 | 53 | 75 | 58 | .425 | .416 | 5.65 | 3.89 | 5.9 | 5.7 | 5.4 |
| June | 29.205 | 29.474 | 28.894 | 72.4 | 76.5 | 85.4 | 67.8 | 76.6 | 94 | 63 | 67 | 67 | 84 | 74 | .670 | .671 | 7.04 | 3.86 | 6.6 | 7.3 | 6.1 |
| July | 29.190 | 29.474 | 28.871 | 72.3 | 77.6 | 85.0 | 67.5 | 76.2 | 92 | 61 | 64 | 64 | 76 | 66 | .605 | .614 | 2.70 | .90 | 6.4 | 6.4 | 5.6 |
| August | 29.210 | 29.471 | 28.805 | 70.8 | 77.4 | 84.7 | 67.4 | 76.0 | 95 | 59 | 65 | 66 | 83 | 70 | .624 | .648 | 5.16 | 1.88 | 5.3 | 4.8 | 4.8 |
| September | 29.273 | 29.486 | 29.115 | 64.1 | 70.4 | 77.6 | 60.5 | 69.0 | 87 | 47 | 57 | 59 | 80 | 69 | .495 | .523 | 2.06 | 1.02 | 6.7 | 4.8 | 5.4 |
| October | 29.310 | 29.607 | 28.888 | 51.6 | 60.9 | 69.2 | 48.4 | 58.8 | 80 | 33 | 44 | 44 | 76 | 55 | .303 | .303 | 1.37 | .92 | 2.9 | 2.2 | 2.4 |
| November | 29.397 | 29.756 | 28.828 | 49.1 | 57.6 | 66.7 | 45.7 | 56.2 | 77 | 30 | 42 | 42 | 77 | 60 | .285 | .292 | .44 | .35 | 4.2 | 2.5 | 3.6 |
| December | 29.195 | 29.552 | 28.693 | 33.7 | 41.1 | 47.5 | 30.9 | 39.2 | 69 | 12 | 26 | 26 | 74 | 55 | .157 | .152 | 2.51 | 1.59 | 5.3 | 3.3 | 4.7 |
| Year | 29.234 | 29.756 | 28.459 | 54.9 | 62.3 | 69.6 | 51.1 | 60.4 | 95 | 12 | 48 | 48 | 78 | 61 | .385 | .386 | 39.06 | 3.89 | 5.5 | 4.7 | 5.0 |

CHATTANOOGA, TENN.

[$\phi$=35° 4′ N.; $\lambda$=85° 14′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.378 | 29.710 | 28.659 | 41.5 | 47.9 | 54.1 | 38.1 | 46.1 | 74 | 6 | 37 | 38 | 82 | 70 | 0.235 | 0.256 | 3.44 | 1.29 | 7.7 | 6.5 | 7.5 |
| February | 29.254 | 29.813 | 28.713 | 41.5 | 51.9 | 58.4 | 38.6 | 48.5 | 74 | 15 | 34 | 37 | 73 | 58 | .220 | .242 | 7.06 | 1.60 | 5.5 | 5.0 | 5.3 |
| March | 29.154 | 29.536 | 28.703 | 44.8 | 55.5 | 60.5 | 42.7 | 51.6 | 71 | 32 | 36 | 40 | 73 | 57 | .227 | .261 | 6.74 | 2.18 | 5.8 | 6.3 | 5.7 |
| April | 29.263 | 29.645 | 28.753 | 54.3 | 65.5 | 70.6 | 50.7 | 60.6 | 85 | 35 | 45 | 46 | 72 | 53 | .319 | .339 | 6.22 | 2.30 | 5.7 | 5.8 | 5.5 |
| May | 29.170 | 29.471 | 28.884 | 60.1 | 71.0 | 76.6 | 56.9 | 66.8 | 89 | 38 | 54 | 55 | 80 | 58 | .427 | .451 | 3.62 | .93 | 5.2 | 6.0 | 5.5 |
| June | 29.226 | 29.434 | 28.916 | 70.6 | 77.7 | 84.3 | 67.3 | 75.8 | 92 | 64 | 66 | 68 | 84 | 72 | .635 | .679 | 7.01 | 3.08 | 5.6 | 7.3 | 6.4 |
| July | 29.216 | 29.486 | 28.968 | 71.5 | 79.1 | 86.0 | 67.6 | 76.8 | 93 | 60 | 65 | 68 | 81 | 70 | .625 | .690 | 4.61 | 1.81 | 5.0 | 6.2 | 5.4 |
| August | 29.233 | 29.484 | 28.916 | 72.2 | 80.9 | 88.8 | 69.2 | 79.0 | 95 | 63 | 66 | 68 | 83 | 65 | .654 | .677 | 1.19 | .53 | 3.9 | 5.7 | 4.6 |
| September | 29.287 | 29.428 | 29.064 | 64.9 | 73.5 | 79.9 | 62.4 | 71.2 | 90 | 45 | 58 | 61 | 80 | 65 | .510 | .554 | 4.44 | 3.10 | 5.4 | 4.8 | 5.2 |
| October | 29.349 | 29.592 | 28.958 | 50.3 | 63.0 | 71.5 | 47.7 | 59.6 | 86 | 33 | 45 | 46 | 84 | 56 | .316 | .331 | 3.28 | 2.51 | 2.7 | 1.8 | 2.5 |
| November | 29.434 | 29.737 | 28.915 | 47.5 | 60.6 | 67.6 | 46.3 | 57.0 | 81 | 30 | 42 | 45 | 81 | 58 | .281 | .317 | 1.05 | .60 | 3.8 | 2.1 | 3.6 |
| December | 29.292 | 29.660 | 28.873 | 31.3 | 38.2 | 44.7 | 28.3 | 36.5 | 62 | 9 | 24 | 27 | 71 | 64 | .139 | .161 | 5.39 | 1.88 | 5.7 | 5.2 | 5.7 |
| Year | 29.271 | 29.813 | 28.659 | 54.2 | 63.7 | 70.2 | 51.3 | 60.8 | 95 | 6 | 48 | 50 | 79 | 62 | .382 | .413 | 54.05 | 3.10 | 5.2 | 5.2 | 5.2 |

CHEYENNE, WYO.

[$\phi$=41° 8′ N.; $\lambda$=104° 48′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 23.898 | 24.276 | 23.513 | 27.3 | 31.1 | 42.1 | 18.7 | 30.4 | 59 | − 9 | 14 | 18 | 59 | 58 | 0.089 | 0.100 | 0.33 | 0.18 | 4.0 | 4.6 | 5.0 |
| February | 23.838 | 24.255 | 23.435 | 25.2 | 29.8 | 38.9 | 16.4 | 27.6 | 61 | −11 | 13 | 15 | 59 | 55 | .076 | .083 | 1.42 | 1.02 | 4.5 | 3.9 | 4.1 |
| March | 23.884 | 24.166 | 23.554 | 25.6 | 34.7 | 40.0 | 21.0 | 30.5 | 53 | − 8 | 20 | 24 | 79 | 67 | .107 | .128 | 3.22 | .97 | 4.5 | 5.6 | 4.8 |
| April | 23.904 | 24.332 | 23.533 | 29.4 | 41.2 | 47.6 | 24.3 | 36.0 | 70 | 10 | 22 | 25 | 75 | 58 | .118 | .137 | .97 | .45 | 5.0 | 5.8 | 5.1 |
| May | 23.905 | 24.118 | 23.587 | 38.7 | 52.3 | 59.2 | 34.4 | 46.8 | 75 | 18 | 30 | 30 | 71 | 48 | .168 | .173 | 2.15 | .91 | 5.4 | 6.3 | 5.7 |
| June | 24.066 | 24.230 | 23.903 | 52.6 | 66.6 | 74.3 | 48.3 | 61.3 | 89 | 41 | 45 | 44 | 77 | 51 | .301 | .304 | 4.01 | 1.15 | 2.8 | 6.4 | 4.8 |
| July | 24.094 | 24.364 | 23.898 | 57.6 | 76.0 | 82.0 | 53.9 | 68.0 | 93 | 44 | 48 | 47 | 73 | 39 | .350 | .335 | 1.08 | .39 | 2.7 | 4.6 | 3.3 |
| August | 24.138 | 24.336 | 23.990 | 57.1 | 73.5 | 82.0 | 54.4 | 68.2 | 88 | 47 | 48 | 49 | 74 | 45 | .344 | .354 | 1.40 | .48 | 3.8 | 5.7 | 4.5 |
| September | 24.122 | 24.361 | 23.773 | 46.7 | 63.4 | 70.4 | 43.6 | 57.0 | 81 | 29 | 38 | 39 | 73 | 45 | .242 | .250 | 1.37 | .85 | 3.8 | 4.3 | 4.1 |
| October | 24.058 | 24.368 | 23.700 | 37.1 | 50.7 | 61.0 | 31.9 | 46.4 | 77 | 19 | 25 | 29 | 62 | 46 | .135 | .161 | .28 | .19 | 4.7 | 4.8 | 4.2 |
| November | 23.983 | 24.358 | 23.623 | 34.3 | 39.8 | 48.4 | 28.7 | 38.6 | 70 | 10 | 22 | 21 | 63 | 53 | .117 | .122 | .73 | .37 | 5.0 | 4.4 | 6.8 |
| December | 23.881 | 24.126 | 23.540 | 16.9 | 20.3 | 28.9 | 9.6 | 19.2 | 56 | −13 | 10 | 12 | 76 | 70 | .073 | .077 | .66 | .27 | 4.7 | 3.7 | 4.8 |
| Year | 23.981 | 24.368 | 23.435 | 37.4 | 48.3 | 56.2 | 32.1 | 44.2 | 93 | −13 | 28 | 29 | 70 | 53 | .177 | .185 | 17.62 | 1.15 | 4.2 | 5.0 | 4.8 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

CHARLESTON, S. C.

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

| Month. | Wind. By self-register. Average hourly velocity. | Wind. By self-register. Prevailing direction. | Wind. By self-register. Maximum velocity. | Wind. By self-register. Direction at time of maximum velocity. | Wind. By self-register. Number of days with gales. | Wind. Number of winds, 8 p. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | Precipitation. 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | Maximum temp. 90° or above. | 32° or Minimum temperature below. | Electricity. Thunderstorms. | Electricity. Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 10.2 | N. | 37 | W. | 0 | 19 | 10 | 9 | 3 | 2 | 6 | 7 | 6 | 0 | 9 | 10 | 12 | 5 | 4 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 0 |
| February | 11.1 | SW. | 37 | S. | 0 | 4 | 2 | 0 | 6 | 8 | 16 | 10 | 10 | 0 | 12 | 10 | 6 | 8 | 8 | 0 | 0 | 1 | 0 | 0 | 1 | 3 | 0 |
| March | 11.4 | SW. | 39 | S. | 0 | 5 | 8 | 8 | 2 | 12 | 13 | 7 | 7 | 0 | 12 | 8 | 11 | 13 | 10 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 |
| April | 12.0 | SW. | 38 | E. | 0 | 5 | 12 | 4 | 6 | 14 | 12 | 2 | 5 | 0 | 9 | 12 | 9 | 8 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| May | 9.8 | S. | 39 | S. | 0 | 5 | 5 | 5 | 9 | 14 | 14 | 4 | 6 | 0 | 11 | 14 | 6 | 5 | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 8 | 0 |
| June | 10.3 | S. | 34 | SW. | 0 | 1 | 4 | 7 | 8 | 21 | 14 | 5 | 0 | 0 | 9 | 15 | 6 | 9 | 7 | 0 | 0 | 1 | 0 | 3 | 0 | 9 | 0 |
| July | 11.1 | S. | 33 | NE. | 0 | 2 | 10 | 7 | 5 | 13 | 19 | 5 | 1 | 0 | 9 | 18 | 4 | 13 | 10 | 0 | 0 | 0 | 0 | 4 | 0 | 10 | 0 |
| August | 9.1 | NE. | 50 | NW. | 1 | 6 | 20 | 5 | 2 | 7 | 10 | 6 | 5 | 1 | 10 | 15 | 6 | 14 | 14 | 0 | 0 | 2 | 0 | 6 | 0 | 9 | 0 |
| September | 11.5 | NE. | 34 | N. | 0 | 11 | 23 | 13 | 5 | 4 | 1 | 1 | 2 | 0 | 7 | 17 | 6 | 11 | 10 | 0 | 0 | 1 | 0 | 0 | 0 | 6 | 0 |
| October | 9.0 | E. | 28 | E. | 0 | 9 | 13 | 11 | 7 | 3 | 6 | 6 | 7 | 0 | 21 | 9 | 1 | 7 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 |
| November | 9.0 | N. | 34 | NE. | 0 | 19 | 9 | 10 | 3 | 3 | 6 | 3 | 7 | 0 | 14 | 11 | 5 | 7 | 6 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 |
| December | 10.2 | W. | 37 | SW. | 0 | 7 | 7 | 5 | 2 | 4 | 6 | 18 | 13 | 0 | 17 | 6 | 8 | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 |
| Year | 10.4 | SW. | 50 | NW. | 1 | 93 | 123 | 84 | 58 | 105 | 123 | 74 | 69 | 1 | 140 | 145 | 80 | 108 | 93 | 0 | 0 | 14 | 0 | 14 | 10 | 56 | 0 |

CHARLOTTE, N. C.

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 7.0 | NE. | 40 | SW. | 1 | 4 | 16 | 4 | 2 | 15 | 10 | 7 | 2 | 2 | 7 | 15 | 9 | 9 | 6 | 0 | 0 | 7 | 2 | 0 | 11 | 0 | 0 |
| February | 10.2 | SW. | 36 | SW. | 0 | 0 | 3 | 2 | 4 | 17 | 19 | 9 | 2 | 0 | 8 | 10 | 10 | 15 | 11 | 0 | 0 | 2 | 0 | 0 | 7 | 4 | 0 |
| March | 8.5 | S. | 38 | W. | 0 | 5 | 11 | 7 | 2 | 16 | 11 | 3 | 7 | 0 | 11 | 7 | 13 | 13 | 7 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 |
| April | 8.4 | S. | 33 | W. | 0 | 2 | 8 | 6 | 6 | 16 | 16 | 3 | 3 | 0 | 10 | 8 | 12 | 8 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| May | 6.4 | SW. | 30 | SW. | 0 | 2 | 8 | 6 | 9 | 8 | 21 | 6 | 1 | 1 | 10 | 14 | 7 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| June | 5.6 | SW. | 23 | NW. | 0 | 3 | 5 | 4 | 4 | 16 | 20 | 5 | 1 | 2 | 3 | 22 | 5 | 14 | 11 | 0 | 0 | 0 | 0 | 3 | 0 | 13 | 0 |
| July | 5.6 | SW. | 24 | W. | 0 | 3 | 9 | 7 | 3 | 13 | 16 | 6 | 5 | 0 | 5 | 21 | 5 | 14 | 9 | 0 | 0 | 0 | 0 | 4 | 0 | 12 | 0 |
| August | 4.9 | NE. | 36 | S. | 0 | 6 | 10 | 9 | 6 | 8 | 7 | 6 | 1 | 0 | 13 | 11 | 7 | 11 | 9 | 0 | 0 | 2 | 0 | 5 | 0 | 7 | 0 |
| September | 6.0 | NE. | 23 | NE. | 0 | 3 | 24 | 15 | 3 | 8 | 3 | 0 | 0 | 4 | 9 | 10 | 11 | 8 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| October | 6.4 | SW. | 28 | SW. | 0 | 4 | 12 | 10 | 2 | 8 | 14 | 6 | 6 | 0 | 22 | 5 | 4 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| November | 7.0 | NE. | 23 | W. | 0 | 6 | 18 | 5 | 0 | 9 | 15 | 2 | 4 | 1 | 15 | 10 | 5 | 3 | 2 | 0 | 0 | 3 | 0 | 0 | 2 | 1 | 0 |
| December | 6.6 | SW. | 33 | SW. | 0 | 8 | 6 | 2 | 1 | 7 | 25 | 6 | 6 | 1 | 12 | 9 | 10 | 7 | 6 | 4 | 0 | 2 | 2 | 0 | 19 | 0 | 0 |
| Year | 6.9 | SW. | 40 | SW. | 1 | 46 | 46 | 77 | 42 | 141 | 177 | 59 | 38 | 11 | 125 | 142 | 98 | 115 | 86 | 4 | 0 | 18 | 4 | 12 | 39 | 53 | 0 |

CHATTANOOGA, TENN.

[H=762 ft.; $h_t$=189 ft.; $h_r$=167 ft.; $h_a$=213 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 6.9 | S. | 36 | SW. | 0 | 3 | 9 | 1 | 9 | 15 | 11 | 3 | 11 | 0 | 4 | 4 | 23 | 10 | 7 | 2 | 0 | 4 | 2 | 0 | 10 | 1 | 0 |
| February | 8.1 | S. | 41 | SW. | 1 | 3 | 4 | 1 | 7 | 15 | 14 | 3 | 9 | 0 | 12 | 3 | 13 | 12 | 12 | 1 | 1 | 3 | 0 | 0 | 10 | 5 | 0 |
| March | 7.5 | NW. | 32 | NW. | 0 | 8 | 5 | 1 | 7 | 11 | 5 | 4 | 21 | 0 | 10 | 8 | 13 | 14 | 11 | 0 | 0 | 1 | 0 | 0 | 1 | 7 | 0 |
| April | 7.3 | S. | 42 | SW. | 1 | 7 | 7 | 2 | 8 | 16 | 9 | 2 | 9 | 0 | 11 | 4 | 15 | 10 | 10 | 0 | 1 | 1 | 0 | 0 | 0 | 9 | 0 |
| May | 6.0 | SW. | 33 | SE. | 0 | 5 | 4 | 2 | 9 | 11 | 21 | 5 | 5 | 0 | 8 | 12 | 11 | 18 | 12 | 0 | 0 | 2 | 0 | 0 | 0 | 7 | 0 |
| June | 5.0 | SW. | 28 | NW. | 0 | 5 | 9 | 6 | 5 | 5 | 16 | 7 | 7 | 0 | 3 | 16 | 11 | 18 | 15 | 0 | 0 | 4 | 0 | 4 | 0 | 17 | 0 |
| July | 5.5 | SW. | 32 | SW. | 0 | 8 | 7 | 1 | 5 | 9 | 13 | 10 | 9 | 0 | 8 | 15 | 8 | 10 | 10 | 0 | 0 | 2 | 0 | 6 | 0 | 10 | 0 |
| August | 4.8 | NE. | 22 | SE. | 0 | 8 | 13 | 4 | 7 | 7 | 12 | 6 | 5 | 0 | 12 | 14 | 5 | 9 | 5 | 0 | 0 | 1 | 0 | 12 | 0 | 12 | 0 |
| September | 5.9 | NE. | 33 | SE. | 0 | 12 | 13 | 1 | 10 | 11 | 4 | 3 | 6 | 0 | 10 | 11 | 9 | 8 | 7 | 0 | 0 | 2 | 0 | 0 | 0 | 5 | 0 |
| October | 7.1 | W. | 36 | NW. | 0 | 10 | 8 | 6 | 5 | 6 | 6 | 16 | 5 | 0 | 24 | 3 | 4 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| November | 7.5 | SE. | 41 | NW. | 1 | 9 | 8 | 4 | 13 | 12 | 5 | 5 | 4 | 0 | 17 | 9 | 4 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 |
| December | 8.8 | NW. | 38 | W. | 0 | 9 | 11 | 2 | 4 | 3 | 10 | 10 | 13 | 0 | 12 | 6 | 13 | 12 | 10 | 5 | 0 | 3 | 4 | 0 | 22 | 1 | 0 |
| Year | 6.7 | SW. | 42 | SW. | 3 | 87 | 98 | 31 | 89 | 121 | 126 | 74 | 104 | 0 | 131 | 105 | 129 | 129 | 104 | 8 | 2 | 41 | 6 | 22 | 45 | 78 | 0 |

CHEYENNE, WYO.

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 12.1 | W. | 46 | W. | 2 | 5 | 0 | 2 | 1 | 3 | 18 | 19 | 14 | 0 | 10 | 16 | 5 | 4 | 3 | 4 | 0 | 1 | 5 | 0 | 26 | 0 | 0 |
| February | 14.5 | NW. | 46 | NW. | 1 | 5 | 2 | 1 | 1 | 1 | 8 | 20 | 18 | 0 | 15 | 9 | 4 | 7 | 5 | 7 | 0 | 1 | 5 | 0 | 28 | 0 | 0 |
| March | 10.2 | NW. | 50 | W. | 3 | 10 | 4 | 2 | 5 | 7 | 9 | 7 | 17 | 1 | 10 | 14 | 7 | 14 | 12 | 14 | 0 | 2 | 8 | 0 | 29 | 0 | 0 |
| April | 11.6 | NW. | 42 | NW. | 4 | 14 | 2 | 1 | 1 | 6 | 5 | 17 | 14 | 0 | 8 | 15 | 7 | 10 | 7 | 10 | 0 | 1 | 4 | 0 | 25 | 1 | 0 |
| May | 12.5 | NW. | 50 | NW. | 1 | 11 | 4 | 2 | 3 | 9 | 5 | 5 | 23 | 0 | 9 | 15 | 7 | 12 | 8 | 1 | 2 | 0 | 0 | 0 | 10 | 6 | 0 |
| June | 8.2 | S. | 43 | W. | 1 | 8 | 2 | 5 | 5 | 9 | 10 | 8 | 13 | 0 | 10 | 14 | 6 | 15 | 11 | 0 | 10 | 1 | 0 | 0 | 0 | 16 | 0 |
| July | 8.2 | S. | 36 | SW. | 0 | 6 | 4 | 4 | 7 | 8 | 10 | 8 | 15 | 0 | 17 | 14 | 0 | 6 | 5 | 0 | 0 | 0 | 0 | 2 | 0 | 11 | 0 |
| August | 8.0 | S. | 31 | NW. | 0 | 3 | 6 | 1 | 4 | 11 | 7 | 8 | 21 | 1 | 8 | 19 | 4 | 12 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 12 | 0 |
| September | 8.1 | NW. | 41 | NW. | 1 | 8 | 2 | 1 | 6 | 11 | 9 | 6 | 17 | 0 | 13 | 11 | 6 | 9 | 7 | 0 | 1 | 1 | 0 | 0 | 2 | 5 | 0 |
| October | 10.6 | NW. | 40 | NW. | 1 | 6 | 6 | 0 | 2 | 8 | 8 | 9 | 21 | 2 | 13 | 14 | 4 | 5 | 2 | 2 | 0 | 0 | 0 | 0 | 20 | 2 | 0 |
| November | 10.4 | W. | 45 | W. | 2 | 8 | 3 | 0 | 6 | 4 | 10 | 16 | 13 | 0 | 6 | 9 | 15 | 7 | 7 | 5 | 0 | 5 | 5 | 0 | 18 | 0 | 0 |
| December | 10.9 | NW. | 40 | NW. | 1 | 8 | 4 | 2 | 1 | 1 | 9 | 9 | 28 | 0 | 11 | 13 | 7 | 11 | 5 | 11 | 0 | 1 | 17 | 0 | 29 | 0 | 0 |
| Year | 10.4 | NW. | 50 | W. | 17 | 92 | 39 | 21 | 42 | 78 | 108 | 132 | 214 | 4 | 130 | 163 | 72 | 112 | 81 | 54 | 14 | 13 | 44 | 2 | 187 | 53 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

CHICAGO, ILL.

[$\phi$=41° 53′ N.; $\lambda$=87° 37′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.231 | 29.648 | 28.160 | 27.2 | 30.4 | 35.3 | 22.2 | 28.8 | 65 | −10 | 23 | 26 | 82 | 81 | 0.140 | 0.158 | 1.96 | 0.86 | 7.9 | 6.1 | 7.7 |
| February | 29.016 | 29.611 | 28.285 | 29.4 | 34.5 | 39.2 | 25.6 | 32.4 | 57 | 12 | 25 | 28 | 82 | 78 | .140 | .160 | 3.84 | .96 | 6.8 | 5.8 | 7.8 |
| March | 29.034 | 29.559 | 28.524 | 33.0 | 37.9 | 41.4 | 30.5 | 36.0 | 55 | 14 | 27 | 29 | 77 | 70 | .148 | .159 | 1.63 | .43 | 5.7 | 6.7 | 6.7 |
| April | 29.059 | 29.498 | 28.518 | 42.2 | 45.5 | 52.1 | 38.0 | 45.0 | 74 | 25 | 35 | 36 | 77 | 71 | .213 | .221 | 7.73 | 2.75 | 6.8 | 5.8 | 6.6 |
| May | 29.059 | 29.348 | 28.684 | 53.6 | 56.7 | 62.9 | 48.9 | 55.9 | 86 | 32 | 46 | 47 | 77 | 71 | .331 | .339 | 2.18 | .91 | 4.5 | 4.7 | 4.8 |
| June | 29.122 | 29.449 | 28.877 | 63.7 | 67.7 | 73.2 | 59.9 | 66.6 | 87 | 48 | 58 | 57 | 82 | 71 | .497 | .488 | 5.09 | 1.69 | 5.7 | 6.2 | 6.2 |
| July | 29.108 | 29.451 | 28.790 | 69.3 | 74.9 | 79.1 | 65.5 | 72.3 | 92 | 55 | 60 | 58 | 72 | 57 | .523 | .498 | 1.77 | .87 | 4.9 | 4.5 | 5.5 |
| August | 29.168 | 29.436 | 28.868 | 71.8 | 75.2 | 80.7 | 69.0 | 74.8 | 93 | 59 | 64 | 66 | 77 | 74 | .606 | .643 | 6.20 | 3.52 | 3.5 | 3.6 | 4.0 |
| September | 29.230 | 29.652 | 28.779 | 60.4 | 66.1 | 69.8 | 58.3 | 64.0 | 89 | 47 | 54 | 58 | 81 | 75 | .437 | .491 | 3.60 | 1.41 | 4.3 | 3.7 | 4.9 |
| October | 29.187 | 29.716 | 28.631 | 46.7 | 52.7 | 56.9 | 44.2 | 50.6 | 76 | 29 | 40 | 41 | 76 | 65 | .255 | .273 | 1.20 | .52 | 4.9 | 4.2 | 5.2 |
| November | 29.218 | 29.669 | 28.734 | 45.6 | 49.8 | 55.4 | 41.5 | 48.4 | 71 | 28 | 41 | 41 | 83 | 73 | .264 | .273 | 3.84 | 1.31 | 6.2 | 5.5 | 6.8 |
| December | 29.069 | 29.556 | 28.619 | 30.5 | 33.4 | 38.1 | 15.2 | 21.6 | 55 | − 7 | 17 | 19 | 86 | 83 | .114 | .119 | 4.18 | .95 | 5.1 | 7.3 | 6.8 |
| Year | 29.124 | 29.716 | 28.160 | 47.0 | 51.2 | 56.2 | 43.2 | 49.7 | 93 | −10 | 41 | 42 | 79 | 72 | .306 | .318 | 43.22 | 3.52 | 5.5 | 5.3 | 6.1 |

CINCINNATI, OHIO.

[$\phi$=39° 6′ N.; $\lambda$=84° 30′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.477 | 29.852 | 28.483 | 33.7 | 38.0 | 42.8 | 28.6 | 35.7 | 69 | 7 | 28 | 30 | 80 | 74 | 0.174 | 0.188 | 2.57 | 0.64 | 7.7 | 7.4 | 8.0 |
| February | 29.282 | 29.969 | 28.593 | 36.2 | 43.2 | 48.6 | 31.6 | 40.1 | 64 | 9 | 29 | 32 | 74 | 65 | .171 | .197 | 5.65 | 2.69 | 6.5 | 6.1 | 6.9 |
| March | 29.261 | 29.727 | 28.699 | 37.0 | 45.4 | 50.2 | 34.3 | 42.2 | 62 | 19 | 28 | 30 | 70 | 55 | .161 | .176 | 2.44 | 1.74 | 6.0 | 6.8 | 6.5 |
| April | 29.341 | 29.796 | 28.831 | 48.7 | 57.4 | 64.1 | 42.7 | 53.4 | 84 | 25 | 37 | 38 | 66 | 51 | .241 | .247 | 3.62 | .85 | 6.1 | 6.3 | 6.3 |
| May | 29.265 | 29.570 | 29.047 | 58.1 | 66.4 | 71.2 | 53.3 | 62.2 | 85 | 37 | 48 | 51 | 70 | 60 | .353 | .397 | 4.21 | 1.00 | 5.9 | 6.2 | 5.8 |
| June | 29.327 | 29.569 | 29.038 | 69.4 | 77.6 | 83.2 | 65.2 | 74.2 | 91 | 55 | 63 | 63 | 80 | 63 | .584 | .597 | 5.06 | 1.17 | 7.1 | 5.8 | 6.3 |
| July | 29.323 | 29.669 | 29.121 | 70.0 | 77.1 | 83.0 | 65.1 | 74.0 | 94 | 56 | 62 | 62 | 77 | 62 | .570 | .569 | 3.83 | 1.17 | 5.2 | 6.0 | 5.7 |
| August | 29.363 | 29.647 | 29.002 | 70.1 | 80.1 | 85.8 | 66.4 | 76.1 | 95 | 57 | 63 | 63 | 78 | 57 | .587 | .587 | 1.82 | .88 | 3.2 | 3.8 | 3.8 |
| September | 29.436 | 29.717 | 29.083 | 60.7 | 71.2 | 76.9 | 57.4 | 67.2 | 90 | 42 | 53 | 54 | 76 | 55 | .421 | .437 | 1.39 | .98 | 3.6 | 2.6 | 4.1 |
| October | 29.446 | 29.892 | 28.989 | 45.6 | 56.5 | 62.9 | 42.5 | 52.7 | 81 | 29 | 38 | 40 | 75 | 55 | .238 | .254 | 3.02 | 1.24 | 3.7 | 3.2 | 4.0 |
| November | 29.505 | 29.777 | 28.852 | 46.9 | 56.3 | 63.1 | 43.1 | 53.1 | 77 | 27 | 40 | 42 | 76 | 62 | .260 | .293 | 1.42 | .54 | 5.8 | 3.9 | 5.6 |
| December | 29.369 | 29.814 | 28.827 | 25.2 | 30.1 | 35.4 | 20.5 | 28.0 | 65 | − 3 | 19 | 23 | 76 | 74 | .117 | .135 | 2.40 | .90 | 6.9 | 7.2 | 7.1 |
| Year | 29.366 | 29.969 | 28.483 | 50.1 | 58.3 | 63.9 | 45.9 | 54.9 | 95 | − 3 | 42 | 44 | 75 | 61 | .323 | .340 | 37.43 | 2.69 | 5.6 | 5.4 | 5.8 |

CLEVELAND, OHIO.

[$\phi$=41° 30′ N.; $\lambda$=81° 42′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.283 | 29.708 | 28.398 | 30.3 | 32.8 | 37.5 | 24.9 | 31.2 | 65 | 1 | 25 | 26 | 79 | 76 | 0.149 | 0.154 | 2.96 | 0.80 | 8.0 | 7.4 | 8.0 |
| February | 29.090 | 29.748 | 28.431 | 29.2 | 33.1 | 39.6 | 25.1 | 32.4 | 61 | 6 | 24 | 27 | 80 | 77 | .135 | .154 | 3.22 | 1.07 | 8.0 | 6.9 | 7.8 |
| March | 29.066 | 29.614 | 28.446 | 30.8 | 34.8 | 39.6 | 27.7 | 33.6 | 64 | 18 | 26 | 27 | 82 | 72 | .144 | .150 | 2.92 | .92 | 6.9 | 5.7 | 6.3 |
| April | 29.173 | 29.706 | 28.601 | 43.1 | 47.3 | 54.8 | 37.0 | 45.9 | 79 | 22 | 34 | 35 | 71 | 64 | .208 | .214 | 3.41 | 1.99 | 6.4 | 6.4 | 6.1 |
| May | 29.113 | 29.472 | 28.809 | 53.5 | 57.5 | 63.8 | 47.7 | 55.8 | 82 | 33 | 46 | 46 | 76 | 66 | .319 | .322 | 2.50 | 1.07 | 5.4 | 5.5 | 5.4 |
| June | 29.183 | 29.427 | 28.837 | 65.1 | 69.3 | 73.2 | 60.4 | 66.8 | 86 | 50 | 57 | 57 | 76 | 67 | .483 | .485 | 3.72 | 1.08 | 5.9 | 5.7 | 5.1 |
| July | 29.160 | 29.545 | 28.804 | 67.6 | 72.0 | 76.8 | 62.7 | 69.8 | 91 | 52 | 58 | 59 | 73 | 65 | .495 | .516 | 3.12 | .92 | 4.5 | 5.2 | 4.4 |
| August | 29.219 | 29.533 | 28.850 | 67.7 | 73.5 | 76.7 | 63.4 | 70.0 | 89 | 49 | 59 | 60 | 74 | 64 | .506 | .534 | 2.31 | .83 | 3.6 | 3.7 | 4.0 |
| September | 29.287 | 29.526 | 28.973 | 58.8 | 64.9 | 69.3 | 54.9 | 62.1 | 86 | 42 | 52 | 53 | 77 | 66 | .395 | .420 | 3.40 | 1.37 | 4.4 | 5.2 | 5.3 |
| October | 29.264 | 29.756 | 28.765 | 45.1 | 51.2 | 55.7 | 41.7 | 48.7 | 80 | 32 | 36 | 37 | 72 | 58 | .222 | .233 | 1.40 | .45 | 5.6 | 5.2 | 5.3 |
| November | 29.328 | 29.728 | 28.567 | 44.4 | 49.0 | 51.1 | 40.2 | 47.6 | 72 | 30 | 38 | 42 | 79 | 77 | .242 | .275 | 3.28 | .87 | 5.9 | 4.0 | 6.1 |
| December | 29.136 | 29.546 | 28.610 | 23.4 | 26.5 | 30.8 | 18.5 | 24.6 | 63 | 1 | 18 | 21 | 77 | 79 | .103 | .123 | 2.05 | .62 | 8.4 | 7.4 | 7.9 |
| Year | 29.192 | 29.756 | 28.398 | 46.6 | 51.0 | 55.7 | 42.0 | 49.0 | 91 | 1 | 39 | 41 | 76 | 69 | .283 | .298 | 34.29 | 1.99 | 6.1 | 5.7 | 6.0 |

COLUMBIA, MO.

[$\phi$=38° 57′ N.; $\lambda$=92° 20′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.299 | 29.673 | 28.328 | ..... | 32.8 | 39.1 | 22.1 | 30.6 | 77 | −11 | .... | 26 | .... | 75 | ..... | 0.167 | 2.48 | 1.17 | ..... | 6.5 | 6.5 |
| February | 29.096 | 29.619 | 28.664 | ..... | 40.3 | 48.5 | 25.7 | 37.1 | 65 | 9 | .... | 32 | .... | 72 | ..... | .198 | 2.87 | .89 | ..... | 6.3 | 4.6 |
| March | 29.119 | 29.523 | 28.774 | ..... | 45.3 | 52.8 | 31.3 | 42.0 | 72 | 17 | .... | 35 | .... | 68 | ..... | .217 | 1.67 | .79 | ..... | 4.9 | 4.9 |
| April | 29.102 | 29.515 | 28.457 | ..... | 56.7 | 65.5 | 40.6 | 53.0 | 88 | 27 | .... | 49 | .... | 77 | ..... | .388 | 3.35 | .91 | ..... | 6.4 | 4.9 |
| May | 29.047 | 29.245 | 28.695 | ..... | 67.5 | 72.6 | 50.5 | 61.6 | 93 | 31 | .... | 57 | .... | 70 | ..... | .483 | 6.44 | 2.23 | ..... | 3.5 | 3.5 |
| June | 29.147 | 29.319 | 28.947 | ..... | 75.4 | 82.4 | 62.6 | 72.5 | 91 | 53 | .... | 68 | .... | 78 | ..... | .688 | 9.22 | 2.87 | ..... | 3.9 | 4.1 |
| July | 29.146 | 29.374 | 28.854 | ..... | 79.2 | 85.4 | 65.1 | 75.2 | 93 | 56 | .... | 72 | .... | 79 | ..... | .794 | 4.78 | 1.28 | ..... | 3.4 | 4.3 |
| August | 29.186 | 29.376 | 28.863 | ..... | 82.4 | 91.5 | 66.9 | 79.2 | 98 | 52 | .... | 69 | .... | 65 | ..... | .724 | .06 | .06 | ..... | 3.5 | 2.3 |
| September | 29.232 | 29.544 | 28.732 | ..... | 68.4 | 78.5 | 55.6 | 67.0 | 94 | 37 | .... | 57 | .... | 69 | ..... | .494 | 3.09 | 2.22 | ..... | 3.8 | 4.0 |
| October | 29.227 | 29.657 | 28.909 | ..... | 57.1 | 67.9 | 43.3 | 55.6 | 90 | 25 | .... | 43 | .... | 62 | ..... | .294 | 4.70 | 1.53 | ..... | 3.1 | 3.2 |
| November | 29.252 | 29.622 | 28.859 | ..... | 53.0 | 62.6 | 42.6 | 52.6 | 80 | 18 | .... | 45 | .... | 76 | ..... | .318 | 5.36 | 2.30 | ..... | 4.8 | 5.5 |
| December | 29.219 | 29.587 | 28.836 | ..... | 25.1 | 30.5 | 15.2 | 22.8 | 57 | − 8 | .... | 21 | .... | 84 | ..... | .130 | 3.60 | 1.63 | ..... | 4.7 | 5.6 |
| Year | 29.173 | 29.673 | 28.328 | ..... | 56.9 | 64.8 | 43.5 | 54.1 | 98 | −11 | .... | 48 | .... | 73 | ..... | .408 | 47.62 | 2.87 | ..... | 4.6 | 4.4 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

CHICAGO, ILL.

[H=823 ft.; $h_1$=140 ft.; $h_r$=133 ft.; $h_a$=310 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 13.4 | SW. | 48 | NW. | 3 | 2 | 2 | 5 | 5 | 7 | 16 | 12 | 13 | 0 | 4 | 5 | 22 | 8 | 6 | 6 | 0 | 0 | 11 | 0 | 22 | 2 | 0 |
| February | 17.3 | SW. | 48 | NE. | 4 | 0 | 9 | 4 | 3 | 6 | 14 | 9 | 11 | 0 | 4 | 3 | 21 | 11 | 10 | 7 | 0 | 2 | 6 | 0 | 20 | 1 | 0 |
| March | 14.6 | NW. | 38 | W. | 0 | 1 | 11 | 4 | 5 | 6 | 3 | 13 | 19 | 0 | 6 | 8 | 17 | 8 | 5 | 5 | 0 | 0 | 2 | 0 | 19 | 0 | 0 |
| April | 17.4 | SE. | 60 | W. | 9 | 5 | 4 | 6 | 13 | 6 | 7 | 10 | 9 | 0 | 3 | 14 | 13 | 16 | 12 | 2 | 1 | 1 | 0 | 0 | 3 | 5 | 0 |
| May | 15.7 | NE. | 50 | SW. | 6 | 8 | 12 | 7 | 5 | 8 | 7 | 13 | 2 | 0 | 13 | 11 | 7 | 11 | 8 | 1 | 0 | 0 | 0 | 0 | 1 | 4 | 0 |
| June | 11.1 | NE. | 48 | SW. | 1 | 10 | 14 | 6 | 6 | 4 | 12 | 3 | 5 | 0 | 7 | 11 | 12 | 13 | 11 | 0 | 0 | 3 | 0 | 0 | 0 | 8 | 0 |
| July | 11.8 | NE. | 42 | NW. | 1 | 5 | 13 | 6 | 5 | 8 | 13 | 6 | 6 | 0 | 9 | 13 | 9 | 8 | 5 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 |
| August | 10.7 | NE. | 32 | NE. | 0 | 4 | 16 | 9 | 7 | 3 | 12 | 3 | 8 | 0 | 14 | 12 | 5 | 10 | 7 | 0 | 1 | 0 | 0 | 2 | 0 | 7 | 0 |
| September | 12.1 | NE. | 36 | W. | 0 | 7 | 8 | 8 | 8 | 7 | 7 | 5 | 10 | 0 | 10 | 12 | 8 | 8 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| October | 14.7 | W. | 46 | W. | 2 | 3 | 7 | 4 | 9 | 9 | 10 | 11 | 9 | 0 | 9 | 12 | 10 | 5 | 5 | 0 | 0 | 1 | 0 | 0 | 4 | 0 | 0 |
| November | 17.3 | S. | 48 | W. | 6 | 4 | 7 | 4 | 8 | 13 | 13 | 7 | 4 | 0 | 4 | 11 | 15 | 12 | 10 | 0 | 0 | 1 | 0 | 0 | 6 | 2 | 0 |
| December | 16.5 | W. | 52 | SW. | 2 | 0 | 1 | 4 | 7 | 5 | 6 | 33 | 6 | 0 | 6 | 9 | 16 | 18 | 14 | 14 | 0 | 3 | 20 | 0 | 27 | 0 | 0 |
| Year | 14.4 | W. | 60 | W. | 34 | 49 | 104 | 67 | 81 | 82 | 120 | 125 | 102 | 0 | 89 | 121 | 155 | 128 | 100 | 35 | 2 | 11 | 39 | 5 | 102 | 34 | 0 |

CINCINNATI, OHIO.

[H=628 ft.; $h_1$=152 ft.; $h_r$=145 ft.; $h_a$=160 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 7.5 | SE. | 36 | W. | 0 | 3 | 8 | 6 | 14 | 3 | 13 | 7 | 8 | 0 | 3 | 6 | 22 | 15 | 10 | 5 | 0 | 0 | 9 | 0 | 20 | 1 | 0 |
| February | 8.5 | SE. | 33 | W. | 0 | 2 | 4 | 4 | 16 | 2 | 15 | 8 | 5 | 0 | 6 | 6 | 16 | 12 | 8 | 2 | 0 | 0 | 3 | 0 | 13 | 2 | 0 |
| March | 9.1 | NW. | 34 | W. | 0 | 1 | 7 | 4 | 14 | 0 | 11 | 9 | 16 | 0 | 7 | 7 | 17 | 12 | 7 | 3 | 0 | 0 | 0 | 0 | 11 | 0 | 0 |
| April | 8.5 | SE. | 33 | W. | 0 | 2 | 4 | 4 | 18 | 1 | 12 | 10 | 9 | 0 | 5 | 12 | 13 | 12 | 9 | 1 | 0 | 0 | 0 | 0 | 3 | 7 | 0 |
| May | 7.2 | NE. | 34 | W. | 0 | 7 | 11 | 8 | 10 | 6 | 11 | 5 | 4 | 0 | 9 | 9 | 13 | 14 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| June | 5.3 | SE. | 26 | NW. | 0 | 4 | 8 | 5 | 15 | 2 | 14 | 6 | 5 | 1 | 3 | 16 | 11 | 13 | 11 | 0 | 1 | 0 | 0 | 2 | 0 | 10 | 0 |
| July | 5.7 | SE. | 33 | NW. | 0 | 7 | 4 | 11 | 16 | 1 | 13 | 6 | 3 | 1 | 8 | 14 | 9 | 12 | 12 | 0 | 0 | 0 | 0 | 5 | 0 | 6 | 0 |
| August | 5.2 | NE. | 21 | NW. | 0 | 5 | 15 | 8 | 13 | 3 | 9 | 1 | 8 | 0 | 16 | 11 | 4 | 8 | 7 | 0 | 0 | 0 | 0 | 6 | 0 | 10 | 0 |
| September | 6.1 | N. | 29 | SE. | 0 | 15 | 10 | 5 | 13 | 0 | 6 | 3 | 7 | 1 | 14 | 10 | 6 | 6 | 4 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 |
| October | 6.6 | SE. | 26 | W. | 0 | 5 | 10 | 10 | 14 | 0 | 13 | 5 | 5 | 0 | 17 | 5 | 9 | 9 | 7 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 |
| November | 6.5 | SE. | 36 | SW. | 0 | 3 | 6 | 10 | 15 | 4 | 14 | 6 | 2 | 0 | 10 | 10 | 10 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 0 |
| December | 8.8 | SW. | 30 | SW. | 0 | 0 | 3 | 6 | 11 | 1 | 17 | 15 | 9 | 0 | 6 | 5 | 20 | 11 | 10 | 5 | 0 | 0 | 12 | 0 | 26 | 0 | 0 |
| Year | 7.1 | SE. | 36 | W. | 0 | 54 | 90 | 81 | 169 | 23 | 148 | 81 | 81 | 3 | 104 | 111 | 150 | 130 | 100 | 16 | 1 | 0 | 24 | 15 | 81 | 46 | 0 |

CLEVELAND, OHIO.

[H=762 ft.; $h_1$=190 ft.; $h_r$=163 ft.; $h_a$=201 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 17.3 | S. | 44 | NW. | 3 | 6 | 2 | 3 | 17 | 13 | 8 | 8 | 5 | 0 | 1 | 9 | 21 | 18 | 12 | 11 | 0 | 2 | 11 | 0 | 22 | 1 | 0 |
| February | 17.6 | S. | 58 | SW. | 8 | 5 | 4 | 0 | 14 | 6 | 14 | 10 | 2 | 1 | 2 | 9 | 17 | 16 | 12 | 11 | 0 | 3 | 9 | 0 | 25 | 0 | 0 |
| March | 16.3 | W. | 54 | S. | 7 | 8 | 4 | 2 | 12 | 7 | 4 | 16 | 9 | 0 | 4 | 15 | 12 | 14 | 11 | 7 | 0 | 1 | 5 | 0 | 24 | 0 | 0 |
| April | 15.7 | SE. | 66 | W. | 7 | 7 | 9 | 0 | 17 | 5 | 11 | 6 | 5 | 0 | 7 | 11 | 12 | 13 | 9 | 4 | 2 | 0 | 1 | 0 | 7 | 5 | 0 |
| May | 13.3 | N. | 44 | SW. | 5 | 10 | 10 | 3 | 11 | 8 | 7 | 10 | 3 | 0 | 9 | 12 | 10 | 16 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 7 | 0 |
| June | 9.9 | SE. | 42 | N. | 1 | 11 | 12 | 0 | 13 | 5 | 8 | 7 | 4 | 0 | 10 | 12 | 8 | 13 | 11 | 0 | 1 | 0 | 0 | 0 | 0 | 10 | 0 |
| July | 13.1 | SE. | 57 | W. | 6 | 8 | 9 | 3 | 16 | 10 | 4 | 5 | 7 | 0 | 12 | 14 | 5 | 9 | 7 | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 0 |
| August | 11.8 | N. | 43 | N. | 1 | 11 | 12 | 4 | 12 | 7 | 4 | 4 | 8 | 0 | 14 | 13 | 4 | 10 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 |
| September | 14.0 | SE. | 42 | NW. | 2 | 9 | 8 | 2 | 18 | 8 | 5 | 5 | 5 | 0 | 11 | 9 | 10 | 10 | 8 | 0 | 1 | 0 | 0 | 0 | 0 | 4 | 0 |
| October | 16.0 | SE. | 45 | N. | 3 | 1 | 7 | 3 | 14 | 10 | 12 | 6 | 9 | 0 | 9 | 11 | 11 | 11 | 6 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| November | 17.5 | SE. | 51 | SW. | 6 | 4 | 9 | 2 | 25 | 7 | 7 | 3 | 3 | 0 | 8 | 9 | 13 | 15 | 10 | 3 | 0 | 1 | 0 | 0 | 5 | 1 | 0 |
| December | 17.2 | SW. | 51 | S. | 6 | 2 | 1 | 6 | 10 | 9 | 28 | 4 | 2 | 0 | 3 | 5 | 23 | 20 | 14 | 19 | 0 | 0 | 20 | 0 | 28 | 0 | 0 |
| Year | 15.1 | SE. | 66 | W. | 55 | 82 | 87 | 28 | 179 | 95 | 112 | 84 | 62 | 1 | 90 | 129 | 146 | 165 | 117 | 59 | 5 | 8 | 46 | 1 | 111 | 40 | 1 |

COLUMBIA, MO.

[H=784 ft.; $h_1$=11 ft.; $h_r$=3 ft.; $h_a$=84 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 9.7 | S. | 60 | NW. | 3 | 3 | 3 | 3 | 8 | 7 | 1 | 1 | 5 | 0 | 8 | 6 | 17 | 7 | 5 | 4 | 1 | 1 | 9 | 0 | 22 | 1 | 0 |
| February | 11.2 | SW. | 46 | SW. | 1 | 4 | 0 | 2 | 5 | 5 | 9 | 3 | 0 | 0 | 13 | 5 | 10 | 11 | 10 | 4 | 0 | 0 | 2 | 0 | 19 | 2 | 0 |
| March | 10.2 | NW. | 44 | NW. | 1 | 4 | 7 | 4 | 0 | 1 | 2 | 3 | 10 | 0 | 7 | 17 | 7 | 7 | 6 | 1 | 0 | 0 | 0 | 0 | 14 | 4 | 0 |
| April | 11.7 | S. | 52 | SW. | 3 | 2 | 5 | 1 | 3 | 7 | 5 | 3 | 4 | 0 | 10 | 12 | 8 | 13 | 7 | 0 | 4 | 2 | 0 | 0 | 6 | 6 | 0 |
| May | 8.7 | SE. | 48 | E. | 1 | 2 | 3 | 6 | 7 | 4 | 3 | 2 | 3 | 1 | 16 | 10 | 5 | 10 | 9 | 0 | 0 | 0 | 0 | 1 | 1 | 7 | 0 |
| June | 6.1 | S. | 25 | NW. | 0 | 4 | 3 | 1 | 7 | 6 | 2 | 3 | 3 | 1 | 9 | 19 | 2 | 12 | 10 | 0 | 0 | 0 | 0 | 3 | 0 | 11 | 0 |
| July | 5.7 | E. | 54 | N. | 1 | 8 | 5 | 3 | 3 | 6 | 1 | 1 | 3 | 1 | 13 | 9 | 9 | 14 | 10 | 0 | 0 | 0 | 0 | 5 | 0 | 8 | 0 |
| August | 5.2 | SW. | 19 | NW. | 0 | 3 | 4 | 9 | 2 | 1 | 5 | 2 | 4 | 1 | 20 | 10 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 20 | 0 | 2 | 0 |
| September | 6.5 | SE. | 21 | SE. | 0 | 7 | 5 | 7 | 4 | 0 | 3 | 0 | 4 | 0 | 14 | 9 | 7 | 10 | 9 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 0 |
| October | 8.4 | SE. | 30 | W. | 0 | 3 | 2 | 5 | 4 | 3 | 4 | 2 | 8 | 0 | 19 | 5 | 7 | 13 | 7 | 0 | 1 | 0 | 0 | 1 | 4 | 7 | 0 |
| November | 10.0 | S. | 32 | SW. | 0 | 2 | 2 | 5 | 5 | 10 | 0 | 5 | 0 | 1 | 11 | 7 | 12 | 12 | 10 | 0 | 0 | 1 | 0 | 0 | 6 | 7 | 0 |
| December | 9.3 | W. | 26 | SW. | 0 | 2 | 1 | 1 | 3 | 2 | 5 | 13 | 4 | 0 | 10 | 9 | 12 | 12 | 10 | 8 | 0 | 2 | 20 | 0 | 27 | 2 | 0 |
| Year | 8.6 | S. | 60 | NW. | 10 | 44 | 40 | 47 | 51 | 52 | 40 | 38 | 48 | 5 | 150 | 118 | 97 | 122 | 94 | 17 | 6 | 6 | 31 | 32 | 99 | 61 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

COLUMBIA, S. C.

[$\phi$=34° 00′ N.; $\lambda$=81° 3′ W.]

| Month | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | Cloudiness. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | | | | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | | | | | |
| | In. | In. | In. | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | In. | In. | In. | In. | | | | | |
| January | 29.786 | 30.076 | 29.059 | 43.0 | 51.2 | 58.8 | 39.6 | 49.2 | 79 | 15 | 38 | 38 | 82 | 64 | 0.251 | 0.262 | 1.54 | 0.64 | 5.2 | 4.3 | 5.7 | | |
| February | 29.692 | 30.151 | 29.269 | 45.0 | 56.1 | 64.0 | 41.6 | 52.8 | 78 | 17 | 37 | 34 | 73 | 46 | .247 | .227 | 4.42 | 1.39 | 4.5 | 3.4 | 4.9 | | |
| March | 29.547 | 29.913 | 28.996 | 47.8 | 57.2 | 64.5 | 44.2 | 54.4 | 83 | 32 | 40 | 37 | 77 | 51 | .270 | .243 | 3.47 | .96 | 5.8 | 4.5 | 5.8 | | |
| April | 29.696 | 30.159 | 29.335 | 57.6 | 67.7 | 74.7 | 53.7 | 64.2 | 87 | 37 | 48 | 47 | 73 | 52 | .369 | .349 | 1.72 | .66 | 5.6 | 4.5 | 5.4 | | |
| May | 29.583 | 29.864 | 29.279 | 64.8 | 71.9 | 80.0 | 59.1 | 69.6 | 92 | 43 | 57 | 55 | 76 | 58 | .479 | .451 | 4.26 | 1.35 | 5.2 | 5.5 | 5.2 | | |
| June | 29.637 | 29.900 | 29.352 | 74.9 | 79.1 | 88.4 | 69.7 | 79.0 | 94 | 65 | 69 | 68 | 82 | 69 | .707 | .677 | 6.67 | 2.15 | 5.3 | 7.5 | 6.6 | | |
| July | 29.622 | 29.902 | 29.268 | 74.2 | 79.1 | 87.5 | 69.3 | 78.4 | 96 | 63 | 67 | 66 | 79 | 66 | .672 | .652 | 3.08 | 1.19 | 5.0 | 6.0 | 5.6 | | |
| August | 29.632 | 29.886 | 29.211 | 73.7 | 79.5 | 88.9 | 69.3 | 79.1 | 98 | 60 | 68 | 68 | 82 | 69 | .686 | .681 | 4.18 | 1.43 | 5.0 | 4.2 | 5.0 | | |
| September | 29.688 | 29.886 | 29.519 | 67.1 | 73.2 | 82.1 | 63.8 | 73.0 | 90 | 46 | 60 | 60 | 79 | 65 | .544 | .547 | 1.04 | .47 | 6.2 | 5.6 | 5.6 | | |
| October | 29.754 | 30.082 | 29.345 | 53.8 | 63.6 | 72.6 | 50.0 | 61.3 | 84 | 35 | 46 | 46 | 75 | 54 | .323 | .326 | 3.43 | 1.58 | 2.4 | 1.9 | 2.8 | | |
| November | 29.847 | 30.191 | 29.304 | 49.8 | 60.8 | 69.5 | 46.5 | 58.0 | 83 | 29 | 44 | 44 | 81 | 58 | .310 | .317 | .42 | .27 | 3.1 | 1.3 | 4.4 | | |
| December | 29.670 | 30.014 | 29.298 | 35.9 | 44.8 | 52.6 | 32.5 | 42.6 | 72 | 13 | 29 | 30 | 75 | 57 | .175 | .185 | 2.06 | 1.05 | 4.3 | 3.0 | 5.0 | | |
| Year | 29.680 | 30.191 | 28.996 | 57.3 | 65.4 | 73.6 | 53.3 | 63.5 | 98 | 13 | 50 | 49 | 78 | 59 | .419 | .410 | 36.31 | 2.15 | 4.8 | 4.3 | 5.2 | | |

COLUMBUS, OHIO.

[$\phi$=39° 58′ N.; $\lambda$=83° 0′ W.]

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.250 | 29.625 | 28.339 | 30.7 | 34.6 | 39.8 | 25.8 | 32.8 | 66 | 4 | 27 | 28 | 85 | 76 | 0.162 | 0.165 | 2.52 | 0.41 | 7.8 | 7.0 | 7.6 | | |
| February | 29.065 | 29.726 | 28.436 | 31.7 | 37.6 | 44.7 | 27.7 | 36.2 | 61 | 0 | 27 | 31 | 84 | 76 | .158 | .182 | 4.97 | 2.19 | 6.0 | 4.8 | 6.8 | | |
| March | 29.043 | 29.515 | 28.466 | 33.3 | 40.5 | 46.0 | 30.2 | 38.1 | 68 | 16 | 28 | 30 | 78 | 65 | .153 | .171 | 2.68 | 1.01 | 6.7 | 6.4 | 6.8 | | |
| April | 29.134 | 29.619 | 28.653 | 45.7 | 53.1 | 60.8 | 39.4 | 50.1 | 82 | 22 | 36 | 38 | 70 | 60 | .225 | .247 | 3.20 | 1.00 | 6.8 | 6.1 | 6.5 | | |
| May | 29.074 | 29.395 | 28.845 | 55.3 | 62.7 | 69.1 | 50.4 | 59.8 | 84 | 33 | 47 | 49 | 74 | 63 | .334 | .363 | 4.65 | 1.21 | 5.5 | 5.8 | 5.7 | | |
| June | 29.137 | 29.390 | 28.831 | 67.5 | 74.4 | 81.2 | 62.3 | 71.8 | 91 | 51 | 61 | 62 | 80 | 66 | .551 | .563 | 3.88 | 1.01 | 6.7 | 6.6 | 6.5 | | |
| July | 29.128 | 29.489 | 28.854 | 67.6 | 74.1 | 81.7 | 62.3 | 72.0 | 91 | 54 | 59 | 59 | 75 | 62 | .510 | .519 | 3.34 | 1.14 | 5.0 | 5.7 | 5.4 | | |
| August | 29.175 | 29.470 | 28.809 | 67.0 | 76.7 | 83.3 | 63.6 | 73.4 | 93 | 52 | 60 | 60 | 78 | 58 | .523 | .536 | 2.53 | 1.91 | 4.2 | 4.1 | 3.9 | | |
| September | 29.247 | 29.494 | 29.000 | 57.9 | 66.7 | 74.2 | 54.0 | 64.1 | 88 | 40 | 51 | 53 | 80 | 63 | .399 | .430 | 1.81 | 1.49 | 3.8 | 4.0 | 4.3 | | |
| October | 29.242 | 29.710 | 28.806 | 42.6 | 52.7 | 59.5 | 40.3 | 49.9 | 79 | 29 | 36 | 37 | 77 | 56 | .217 | .229 | 2.77 | 1.17 | 3.8 | 4.1 | 4.5 | | |
| November | 29.300 | 29.605 | 28.628 | 44.2 | 51.9 | 58.4 | 40.8 | 49.6 | 74 | 24 | 38 | 41 | 79 | 69 | .240 | .274 | 1.66 | .71 | 6.1 | 4.1 | 6.2 | | |
| December | 29.129 | 29.527 | 28.610 | 22.7 | 27.5 | 33.0 | 18.7 | 25.8 | 67 | − 4 | 19 | 20 | 84 | 76 | .112 | .119 | 2.58 | .91 | 6.7 | 6.2 | 6.3 | | |
| Year | 29.160 | 29.726 | 28.339 | 47.2 | 54.4 | 61.0 | 43.0 | 52.0 | 93 | − 4 | 41 | 42 | 79 | 66 | .299 | .316 | 36.59 | 2.19 | 5.8 | 5.4 | 5.9 | | |

CONCORD, N. H.

[$\phi$=43° 12′ N.; $\lambda$=71° 32′ W.]

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.803 | 30.416 | 28.923 | 19.5 | ..... | 31.9 | 15.1 | 23.5 | 55 | −11 | 14 | .... | 80 | .... | 0.098 | ..... | 2.98 | 0.96 | 6.3 | ..... | 6.3 | | |
| February | 29.608 | 30.188 | 28.511 | 20.2 | ..... | 34.8 | 16.0 | 25.4 | 53 | −14 | 14 | .... | 75 | .... | .094 | ..... | 3.25 | 1.04 | 6.2 | ..... | 4.9 | | |
| March | 29.454 | 29.969 | 28.817 | 28.0 | ..... | 39.5 | 24.1 | 31.8 | 52 | 10 | 20 | .... | 71 | .... | .111 | ..... | 2.56 | 1.46 | 4.9 | ..... | 4.0 | | |
| April | 29.730 | 30.293 | 29.173 | 40.1 | ..... | 54.3 | 33.3 | 43.8 | 83 | 21 | 33 | .... | 75 | .... | .192 | ..... | 3.04 | 1.21 | 6.2 | ..... | 6.1 | | |
| May | 29.629 | 30.008 | 29.318 | 51.5 | ..... | 64.0 | 42.5 | 53.2 | 78 | 32 | 43 | .... | 74 | .... | .285 | ..... | 1.35 | .42 | 5.7 | ..... | 4.8 | | |
| June | 29.652 | 29.928 | 29.399 | 64.9 | ..... | 78.2 | 53.3 | 65.8 | 92 | 41 | 54 | .... | 68 | .... | .428 | ..... | 3.12 | 1.36 | 3.8 | ..... | 2.6 | | |
| July | 29.579 | 29.968 | 29.106 | 65.9 | ..... | 79.0 | 55.1 | 67.0 | 91 | 43 | 57 | .... | 73 | .... | .471 | ..... | 2.14 | 1.04 | 4.3 | ..... | 5.5 | | |
| August | 29.703 | 30.081 | 29.157 | 62.8 | ..... | 77.6 | 53.5 | 65.6 | 94 | 36 | 54 | .... | 75 | .... | .429 | ..... | 2.85 | 1.33 | 5.1 | ..... | 4.7 | | |
| September | 29.798 | 30.239 | 29.437 | 54.8 | ..... | 70.1 | 47.8 | 59.0 | 82 | 33 | 51 | .... | 87 | .... | .383 | ..... | 4.15 | 1.19 | 6.6 | ..... | 5.8 | | |
| October | 29.678 | 30.169 | 29.317 | 43.4 | ..... | 58.0 | 37.0 | 47.5 | 83 | 22 | 37 | .... | 78 | .... | .228 | ..... | .82 | .25 | 4.5 | ..... | 5.7 | | |
| November | 29.830 | 30.429 | 29.210 | 37.1 | ..... | 50.2 | 31.4 | 40.8 | 74 | 17 | 30 | .... | 76 | .... | .180 | ..... | 2.12 | 1.26 | 6.2 | ..... | 6.4 | | |
| December | 29.518 | 30.216 | 28.875 | 21.8 | ..... | 31.9 | 17.4 | 24.6 | 50 | − 7 | 13 | .... | 67 | .... | .086 | ..... | 2.56 | 1.56 | 4.9 | ..... | 5.0 | | |
| Year | 29.665 | 30.429 | 28.511 | 42.5 | ..... | 55.8 | 35.5 | 45.7 | 94 | −14 | 35 | .... | 75 | | .249 | ..... | 30.94 | 1.56 | 5.4 | ..... | 5.2 | | |

CONCORDIA, KANS.

[$\phi$=39° 35′ N.; $\lambda$=97° 41′ W.]

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 28.642 | 29.124 | 27.943 | 20.8 | 27.0 | 34.5 | 15.5 | 25.0 | 64 | − 7 | 17 | 21 | 86 | 77 | 0.106 | 0.120 | 0.21 | 0.08 | 5.0 | 4.5 | 6.4 | | |
| February | 28.446 | 28.966 | 27.684 | 23.9 | 38.6 | 47.6 | 20.0 | 33.8 | 69 | − 2 | 18 | 26 | 77 | 62 | .104 | .143 | .49 | .39 | 4.4 | 3.9 | 4.6 | | |
| March | 28.506 | 28.986 | 28.019 | 31.0 | 44.9 | 50.8 | 29.0 | 39.9 | 76 | 14 | 26 | 32 | 80 | 63 | .140 | .188 | 1.24 | .59 | 5.6 | 5.5 | 5.5 | | |
| April | 28.446 | 29.034 | 27.821 | 40.8 | 56.0 | 62.5 | 36.7 | 49.6 | 92 | 25 | 34 | 36 | 76 | 51 | .202 | .219 | 1.58 | .55 | 4.3 | 5.8 | 4.9 | | |
| May | 28.379 | 28.678 | 27.955 | 53.5 | 68.5 | 73.5 | 49.2 | 61.4 | 97 | 24 | 44 | 45 | 72 | 48 | .308 | .325 | 3.06 | 1.61 | 5.5 | 5.4 | 5.3 | | |
| June | 28.487 | 28.735 | 28.328 | 65.4 | 78.7 | 82.7 | 62.8 | 72.8 | 94 | 53 | 61 | 65 | 87 | 64 | .553 | .620 | 3.18 | .85 | 6.4 | 5.4 | 6.0 | | |
| July | 28.488 | 28.760 | 28.202 | 70.5 | 83.0 | 88.1 | 67.7 | 77.9 | 99 | 58 | 66 | 69 | 86 | 64 | .650 | .713 | 7.86 | 2.14 | 5.8 | 4.2 | 4.6 | | |
| August | 28.532 | 28.931 | 28.328 | 70.1 | 86.2 | 92.0 | 67.7 | 79.8 | 103 | 49 | 64 | 65 | 80 | 50 | .597 | .629 | .37 | .26 | 4.3 | 4.2 | 4.5 | | |
| September | 28.594 | 28.952 | 28.164 | 58.1 | 70.6 | 79.4 | 56.0 | 67.7 | 96 | 40 | 53 | 57 | 85 | 63 | .427 | .478 | 6.30 | 2.06 | 4.8 | 3.7 | 3.9 | | |
| October | 28.565 | 29.007 | 28.058 | 46.4 | 57.6 | 68.1 | 43.4 | 55.8 | 90 | 25 | 40 | 42 | 79 | 60 | .256 | .275 | 2.80 | 2.12 | 4.8 | 3.8 | 4.1 | | |
| November[2] | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | | |
| December | 28.602 | 28.912 | 28.152 | 15.7 | 20.0 | 26.9 | 9.7 | 18.3 | 50 | − 6 | 13 | 16 | 89 | 84 | .067 | .097 | 1.15 | 0.48 | 5.5 | 5.0 | 5.8 | | |
| Year | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | | |

[2] Data incomplete.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

COLUMBIA, S. C.

[H=351 ft.; $h_t$=41 ft.; $h_r$=32 ft.; $h_a$=57 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 7.0 | NE. | 36 | W. | 0 | 10 | 17 | 6 | 3 | 5 | 8 | 6 | 7 | 0 | 9 | 10 | 12 | 5 | 5 | 0 | 0 | 8 | 0 | 0 | 6 | 0 | 0 |
| February | 9.7 | W. | 40 | W. | 1 | 6 | 1 | 0 | 5 | 12 | 12 | 13 | 7 | 0 | 11 | 9 | 8 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 0 |
| March | 8.3 | SW. | 40 | SW. | 1 | 11 | 10 | 5 | 2 | 5 | 13 | 7 | 9 | 0 | 8 | 11 | 12 | 12 | 10 | 0 | 2 | 2 | 0 | 0 | 1 | 2 | 0 |
| April | 8.3 | SW. | 32 | SW. | 0 | 6 | 7 | 6 | 6 | 12 | 14 | 4 | 4 | 1 | 10 | 10 | 10 | 11 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| May | 6.4 | SW. | 30 | W. | 0 | 4 | 10 | 4 | 8 | 9 | 15 | 5 | 7 | 0 | 8 | 18 | 5 | 10 | 8 | 0 | 0 | 0 | 0 | 2 | 0 | 7 | 0 |
| June | 6.1 | SW. | 27 | SW. | 0 | 3 | 3 | 6 | 10 | 12 | 15 | 8 | 2 | 1 | 3 | 15 | 12 | 13 | 11 | 0 | 0 | 0 | 0 | 12 | 0 | 11 | 0 |
| July | 6.3 | SW. | 24 | SW. | 0 | 3 | 8 | 10 | 4 | 13 | 16 | 2 | 5 | 1 | 7 | 15 | 9 | 12 | 8 | 0 | 0 | 0 | 0 | 8 | 0 | 7 | 0 |
| August | 5.4 | NE. | 29 | NE. | 0 | 5 | 16 | 8 | 10 | 8 | 10 | 2 | 3 | 0 | 10 | 15 | 6 | 9 | 7 | 0 | 0 | 0 | 0 | 14 | 0 | 5 | 0 |
| September | 6.8 | NE. | 28 | NE. | 0 | 6 | 20 | 12 | 8 | 7 | 5 | 2 | 0 | 0 | 10 | 7 | 13 | 7 | 4 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| October | 6.1 | NE. | 30 | SW. | 0 | 8 | 11 | 8 | 3 | 8 | 6 | 9 | 9 | 0 | 21 | 5 | 5 | 7 | 6 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 |
| November | 6.3 | NE. | 26 | SW. | 0 | 11 | 19 | 4 | 3 | 7 | 7 | 3 | 4 | 2 | 13 | 11 | 6 | 4 | 2 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 0 |
| December | 6.8 | W. | 43 | SW. | 1 | 10 | 4 | 8 | 3 | 3 | 11 | 16 | 6 | 1 | 10 | 11 | 10 | 9 | 7 | 0 | 0 | 6 | 1 | 0 | 14 | 0 | 0 |
| Year | 7.0 | SW. | 43 | SW. | 3 | 83 | 126 | 77 | 65 | 101 | 132 | 77 | 63 | 6 | 120 | 137 | 108 | 109 | 85 | 0 | 2 | 23 | 1 | 38 | 28 | 43 | 0 |

COLUMBUS, OHIO.

[H=824 ft.; $h_t$=173 ft.; $h_r$=171 ft.; $h_a$=222 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 13.3 | S. | 44 | NW. | 2 | 5 | 3 | 3 | 10 | 14 | 9 | 9 | 9 | 0 | 3 | 10 | 18 | 15 | 12 | 7 | 0 | 1 | 10 | 0 | 22 | 1 | 0 |
| February | 14.8 | SW. | 58 | W. | 4 | 5 | 1 | 3 | 9 | 6 | 10 | 14 | 8 | 0 | 5 | 8 | 15 | 12 | 10 | 2 | 0 | 5 | 3 | 0 | 21 | 2 | 0 |
| March | 15.2 | NW. | 50 | NW. | 7 | 5 | 4 | 6 | 8 | 3 | 5 | 8 | 23 | 0 | 7 | 7 | 17 | 12 | 7 | 3 | 1 | 0 | 1 | 0 | 20 | 0 | 0 |
| April | 15.0 | SE. | 60 | NW. | 7 | 5 | 1 | 6 | 13 | 9 | 9 | 8 | 9 | 0 | 7 | 10 | 13 | 11 | 9 | 1 | 1 | 0 | 0 | 0 | 5 | 4 | 0 |
| May | 12.5 | SW. | 50 | NW. | 5 | 4 | 6 | 5 | 13 | 9 | 6 | 10 | 9 | 0 | 10 | 9 | 12 | 14 | 12 | 0 | 1 | 0 | 0 | 0 | 0 | 7 | 0 |
| June | 8.6 | SW. | 42 | NW. | 1 | 12 | 6 | 4 | 14 | 10 | 9 | 3 | 2 | 0 | 7 | 8 | 15 | 14 | 12 | 0 | 0 | 0 | 0 | 1 | 0 | 10 | 0 |
| July | 9.3 | SW. | 64 | W. | 3 | 6 | 6 | 7 | 10 | 10 | 10 | 8 | 5 | 0 | 11 | 10 | 10 | 14 | 9 | 0 | 0 | 1 | 0 | 2 | 0 | 6 | 0 |
| August | 8.4 | E. | 37 | NW. | 0 | 8 | 11 | 11 | 8 | 6 | 5 | 6 | 7 | 0 | 16 | 9 | 6 | 11 | 8 | 0 | 0 | 1 | 0 | 5 | 0 | 8 | 0 |
| September | 9.8 | N. | 40 | SW. | 1 | 18 | 8 | 4 | 12 | 7 | 3 | 5 | 3 | 0 | 15 | 8 | 7 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| October | 10.4 | SW. | 39 | SW. | 0 | 4 | 7 | 11 | 9 | 5 | 10 | 9 | 7 | 0 | 15 | 9 | 7 | 10 | 7 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 2 |
| November | 11.7 | SE. | 54 | W. | 2 | 6 | 2 | 10 | 12 | 10 | 9 | 6 | 5 | 0 | 7 | 9 | 14 | 10 | 6 | 1 | 0 | 3 | 0 | 0 | 9 | 3 | 0 |
| December | 12.4 | W. | 45 | NW. | 2 | 1 | 0 | 4 | 13 | 4 | 16 | 18 | 6 | 0 | 6 | 12 | 13 | 13 | 11 | 10 | 0 | 1 | 16 | 0 | 27 | 0 | 0 |
| Year | 11.8 | SE. | 64 | W. | 34 | 79 | 55 | 74 | 131 | 93 | 101 | 104 | 93 | 0 | 109 | 109 | 147 | 143 | 106 | 24 | 3 | 13 | 30 | 8 | 109 | 44 | 2 |

CONCORD, N. H.

[H=288 ft.; $h_t$=70 ft.; $h_r$=62 ft.; $h_a$=79 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 5.5 | NW. | 30 | NW. | 0 | 9 | 3 | 1 | 2 | 3 | 1 | 1 | 10 | 1 | 10 | 5 | 16 | 11 | 9 | 7 | 0 | 3 | 19 | 0 | 29 | 1 | 0 |
| February | 6.3 | NW. | 35 | W. | 0 | 5 | 4 | 2 | 1 | 1 | 4 | 3 | 7 | 1 | 13 | 6 | 9 | 10 | 7 | 6 | 0 | 0 | 12 | 0 | 26 | 0 | 0 |
| March | 7.2 | NW. | 41 | E. | 1 | 8 | 3 | 1 | 0 | 0 | 4 | 8 | 7 | 0 | 16 | 9 | 6 | 11 | 10 | 7 | 0 | 0 | 3 | 0 | 26 | 0 | 0 |
| April | 7.1 | SE. | 31 | W. | 0 | 3 | 4 | 2 | 7 | 3 | 1 | 2 | 8 | 0 | 7 | 14 | 9 | 14 | 11 | 3 | 0 | 0 | 0 | 0 | 15 | 1 | 0 |
| May | 6.1 | SE. | 25 | NW. | 0 | 4 | 7 | 4 | 5 | 1 | 2 | 1 | 7 | 0 | 16 | 4 | 11 | 12 | 8 | 0 | 0 | 2 | 0 | 0 | 1 | 1. | 0 |
| June | 5.4 | NW. | 23 | W. | 0 | 7 | 5 | 1 | 1 | 2 | 5 | 3 | 6 | 0 | 24 | 4 | 2 | 8 | 7 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 |
| July | 5.2 | NW. | 30 | N. | 0 | 5 | 3 | 3 | 6 | 5 | 3 | 2 | 4 | 0 | 7 | 20 | 4 | 8 | 7 | 0 | 0 | 0 | 0 | 2 | 0 | 5 | 0 |
| August | 4.4 | W. | 23 | NW. | 0 | 4 | 3 | 2 | 3 | 3 | 0 | 5 | 10 | 1 | 13 | 12 | 6 | 8 | 6 | 0 | 0 | 1 | 0 | 2 | 0 | 1 | 0 |
| September | 4.4 | SE. | 25 | NW. | 0 | 7 | 2 | 1 | 5 | 2 | 3 | 2 | 8 | 0 | 9 | 7 | 14 | 12 | 11 | 0 | 0 | 5 | 0 | 0 | 0 | 1 | 0 |
| October | 5.3 | W. | 25 | NW. | 0 | 3 | 0 | 1 | 1 | 6 | 6 | 6 | 8 | 0 | 9 | 7 | 15 | 8 | 7 | 0 | 0 | 4 | 0 | 0 | 6 | 0 | 0 |
| November | 5.3 | NW. | 23 | NW. | 0 | 3 | 3 | 2 | 7 | 1 | 2 | 3 | 7 | 2 | 8 | 5 | 17 | 8 | 7 | 1 | 0 | 3 | 0 | 0 | 16 | 0 | 0 |
| December | 6.8 | NW. | 27 | E. | 0 | 1 | 4 | 0 | 4 | 2 | 3 | 5 | 12 | 0 | 11 | 13 | 7 | 7 | 6 | 4 | 0 | 2 | 17 | 0 | 30 | 0 | 0 |
| Year | 5.8 | NW. | 41 | E. | 1 | 59 | 41 | 20 | 42 | 29 | 34 | 41 | 94 | 5 | 143 | 106 | 116 | 117 | 96 | 28 | 0 | 20 | 51 | 6 | 149 | 11 | 0 |

CONCORDIA, KANS.

[H=1,398 ft.; $h_t$=42 ft.; $h_r$=35 ft.; $h_a$=50 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 7.4 | S. | 45 | NW. | 2 | 15 | 3 | 4 | 6 | 16 | 7 | 3 | 7 | 1 | 1 | 20 | 10 | 3 | 3 | 3 | 0 | 5 | 16 | 0 | 31 | 0 | 0 |
| February | 8.2 | NW. | 36 | NW. | 0 | 9 | 2 | 4 | 3 | 7 | 11 | 7 | 10 | 3 | 12 | 10 | 6 | 3 | 2 | 2 | 0 | 0 | 4 | 0 | 25 | 1 | 0 |
| March | 7.1 | NW. | 36 | N. | 0 | 14 | 9 | 6 | 5 | 4 | 0 | 8 | 11 | 5 | 9 | 14 | 8 | 6 | 5 | 3 | 0 | 0 | 4 | 0 | 23 | 1 | 0 |
| April | 10.2 | N. | 36 | S. | 0 | 15 | 6 | 3 | 9 | 9 | 5 | 2 | 10 | 1 | 7 | 20 | 3 | 9 | 6 | 1 | 2 | 1 | 0 | 1 | 8 | 3 | 0 |
| May | 8.8 | NW. | 38 | NW. | 0 | 5 | 2 | 7 | 10 | 9 | 7 | 4 | 16 | 2 | 8 | 18 | 5 | 9 | 6 | 0 | 1 | 1 | 0 | 1 | 1 | 7 | 0 |
| June | 6.4 | S. | 34 | SW. | 0 | 7 | 12 | 8 | 5 | 19 | 4 | 3 | 2 | 0 | 2 | 24 | 4 | 16 | 13 | 0 | 0 | 2 | 0 | 5 | 0 | 14 | 0 |
| July | 5.6 | SE. | 34 | SW. | 0 | 4 | 8 | 11 | 16 | 14 | 3 | 1 | 2 | 3 | 8 | 23 | 0 | 14 | 13 | 0 | 2 | 0 | 0 | 12 | 0 | 12 | 0 |
| August | 6.4 | S. | 22 | SW. | 0 | 6 | 3 | 5 | 21 | 22 | 2 | 1 | 0 | 2 | 7 | 24 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 20 | 0 | 4 | 0 |
| September | 5.7 | SE. | 28 | S. | 0 | 7 | 11 | 6 | 11 | 9 | 5 | 2 | 3 | 6 | 13 | 13 | 4 | 11 | 9 | 0 | 0 | 0 | 0 | 2 | 0 | 8 | 0 |
| October | 7.8 | S. | 30 | NW. | 0 | 8 | 4 | 5 | 3 | 17 | 5 | 3 | 11 | 6 | 15 | 11 | 5 | 5 | 4 | 0 | 1 | 0 | 0 | 1 | 2 | 3 | 0 |
| November[2] | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| December | 6.8 | NW. | 26 | NW. | 0 | 9 | 2 | 3 | 5 | 2 | 9 | 14 | 17 | 1 | 10 | 10 | 11 | 8 | 5 | 7 | 0 | 1 | 19 | 0 | 29 | 0 | 0 |
| Year | | | | | | | | | | | | | | | | | | | | | | | | | | | |

[2] Data incomplete.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

CORPUS CHRISTI, TEX.

[$\phi$=27° 49′ N.; $\lambda$=97° 25′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | Extremes. | | | Dew point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 30.118 | 30.614 | 29.773 | 56.0 | 59.8 | 65.8 | 53.1 | 59.4 | 79 | 24 | 50 | 52 | 84 | 79 | 0.414 | 0.445 | T. | T. | 5.5 | 3.6 | 5.4 |
| February | 30.022 | 30.502 | 29.478 | 56.7 | 63.7 | 69.3 | 53.8 | 61.6 | 85 | 27 | 48 | 50 | 75 | 65 | .380 | .404 | 0.47 | 0.20 | 4.8 | 4.0 | 4.4 |
| March | 29.881 | 30.323 | 29.477 | 62.1 | 67.6 | 73.3 | 60.3 | 66.8 | 89 | 41 | 57 | 57 | 84 | 73 | .494 | .500 | .66 | .34 | 6.4 | 5.7 | 5.7 |
| April | 29.938 | 30.382 | 29.560 | 66.3 | 71.4 | 76.4 | 64.7 | 70.6 | 95 | 48 | 61 | 63 | 85 | 76 | .579 | .603 | .86 | .83 | 6.9 | 5.2 | 5.1 |
| May | 29.824 | 30.211 | 29.547 | 73.3 | 76.2 | 78.7 | 70.7 | 74.7 | 86 | 56 | 69 | 70 | 86 | 82 | .724 | .746 | 3.68 | 1.52 | 6.5 | 6.7 | 5.7 |
| June | 29.895 | 30.063 | 29.654 | 78.5 | 82.9 | 87.1 | 76.5 | 81.8 | 94 | 69 | 74 | 74 | 86 | 75 | .831 | .837 | 1.50 | .86 | 3.5 | 3.3 | 3.5 |
| July | 29.914 | 30.105 | 29.730 | 79.9 | 84.4 | 88.1 | 78.9 | 83.5 | 92 | 75 | 76 | 76 | 87 | 75 | .890 | .883 | .37 | .29 | 3.6 | 2.4 | 3.3 |
| August | 29.906 | 30.045 | 29.742 | 78.2 | 84.3 | 88.4 | 77.0 | 82.7 | 95 | 73 | 75 | 75 | 89 | 74 | .866 | .862 | 3.71 | 1.25 | 3.7 | 3.4 | 4.2 |
| September | 29.965 | 30.189 | 29.614 | 73.0 | 81.8 | 85.7 | 72.1 | 78.9 | 99 | 54 | 67 | 68 | 81 | 65 | .684 | .713 | 1.11 | .91 | 2.3 | 1.3 | 2.1 |
| October | 30.032 | 30.284 | 29.763 | 68.3 | 76.4 | 80.6 | 67.3 | 74.0 | 86 | 53 | 63 | 64 | 84 | 68 | .600 | .622 | .31 | .26 | 2.9 | 1.5 | 2.5 |
| November | 30.057 | 30.465 | 29.771 | 68.4 | 72.9 | 76.7 | 65.8 | 71.2 | 89 | 46 | 64 | 65 | 85 | 78 | .610 | .640 | .53 | .31 | 4.2 | 2.7 | 4.5 |
| December | 30.080 | 30.425 | 29.714 | 48.5 | 56.0 | 61.3 | 46.0 | 53.6 | 80 | 30 | 41 | 47 | 75 | 73 | .283 | .358 | .90 | .46 | 6.0 | 4.9 | 5.7 |
| Year | 29.969 | 30.614 | 29.477 | 67.4 | 73.1 | 77.6 | 65.5 | 71.6 | 99 | 24 | 62 | 63 | 83 | 74 | .613 | .634 | 14.10 | 1.52 | 4.7 | 3.7 | 4.3 |

DAVENPORT, IOWA.

[$\phi$=41° 30′ N.; $\lambda$=90° 38′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.472 | 29.920 | 28.395 | 22.0 | 26.6 | 33.1 | 16.7 | 24.9 | 66 | −15 | 19 | 23 | 89 | 85 | 0.123 | 0.143 | 1.72 | 1.04 | 6.7 | 6.7 | 7.8 |
| February | 29.247 | 29.789 | 28.581 | 26.8 | 32.6 | 39.7 | 22.3 | 31.0 | 59 | 6 | 24 | 27 | 88 | 79 | .137 | .151 | 2.34 | .84 | 6.5 | 5.8 | 6.3 |
| March | 29.289 | 29.829 | 28.697 | 30.0 | 37.6 | 43.5 | 28.0 | 35.8 | 57 | 9 | 26 | 28 | 84 | 67 | .142 | .153 | 1.60 | 1.00 | 6.0 | 5.4 | 5.6 |
| April | 29.267 | 29.736 | 28.515 | 41.4 | 50.5 | 56.7 | 36.9 | 46.8 | 81 | 22 | 35 | 37 | 77 | 62 | .211 | .236 | 6.02 | 1.97 | 6.2 | 5.8 | 6.0 |
| May | 29.224 | 29.502 | 28.834 | 53.6 | 64.3 | 68.9 | 49.4 | 59.2 | 88 | 30 | 44 | 47 | 70 | 55 | .302 | .343 | 3.23 | 1.17 | 4.6 | 5.1 | 5.4 |
| June | 29.318 | 29.661 | 29.108 | 64.6 | 74.9 | 79.5 | 61.2 | 70.4 | 90 | 49 | 59 | 63 | 84 | 67 | .518 | .579 | 2.80 | 1.10 | 6.8 | 6.1 | 5.9 |
| July | 29.312 | 29.665 | 28.987 | 67.4 | 77.5 | 81.3 | 63.8 | 72.6 | 96 | 52 | 60 | 63 | 78 | 63 | .529 | .587 | 4.68 | 1.98 | 5.1 | 4.1 | 4.5 |
| August | 29.362 | 29.660 | 29.091 | 69.6 | 82.0 | 87.6 | 67.0 | 77.3 | 96 | 51 | 63 | 64 | 80 | 57 | .587 | .624 | 2.34 | 1.19 | 3.1 | 3.6 | 3.4 |
| September | 29.434 | 29.906 | 28.912 | 56.5 | 67.0 | 73.3 | 53.9 | 63.6 | 91 | 40 | 53 | 56 | 89 | 68 | .428 | .461 | 1.50 | .76 | 3.5 | 4.4 | 4.0 |
| October | 29.406 | 29.931 | 28.957 | 42.8 | 52.8 | 60.3 | 41.0 | 50.6 | 82 | 23 | 36 | 40 | 79 | 64 | .228 | .271 | 2.37 | .90 | 4.0 | 3.4 | 3.8 |
| November | 29.420 | 29.903 | 28.950 | 42.7 | 48.6 | 56.2 | 37.4 | 46.8 | 72 | 17 | 38 | 39 | 83 | 71 | .241 | .255 | 3.92 | 1.26 | 6.1 | 4.8 | 5.5 |
| December | 29.355 | 29.811 | 28.891 | 15.6 | 19.3 | 25.1 | 10.6 | 17.8 | 55 | −10 | 14 | 17 | 92 | 89 | .097 | .104 | 3.12 | 1.36 | 6.5 | 5.2 | 6.8 |
| Year | 29.342 | 29.931 | 28.395 | 44.4 | 52.8 | 58.8 | 40.7 | 49.7 | 96 | −15 | 39 | 42 | 83 | 69 | .295 | .326 | 35.64 | 1.98 | 5.4 | 5.0 | 5.4 |

DEL RIO, TEX.

[$\phi$=29° 20′ N.; $\lambda$=100° 53′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.104 | 29.603 | 28.830 | 46.8 | ..... | 69.0 | 44.2 | 56.6 | 87 | 21 | 40 | ..... | 79 | ..... | 0.287 | ..... | 0.01 | 0.01 | 6.3 | ..... | 5.3 |
| February | 29.027 | 29.502 | 28.564 | 46.8 | ..... | 72.9 | 43.5 | 58.2 | 91 | 23 | 32 | ..... | 59 | ..... | .212 | ..... | .32 | .30 | 4.1 | ..... | 3.7 |
| March | 28.910 | 29.338 | 28.508 | 53.9 | ..... | 80.1 | 51.8 | 66.0 | 94 | 33 | 42 | ..... | 68 | ..... | .299 | ..... | 2.18 | 2.11 | 5.2 | ..... | 4.1 |
| April | 28.947 | 29.462 | 28.697 | 58.8 | ..... | 84.0 | 57.5 | 70.8 | 103 | 38 | 49 | ..... | 70 | ..... | .385 | ..... | .75 | .74 | 5.2 | ..... | 3.7 |
| May | 28.852 | 29.226 | 28.596 | 67.0 | ..... | 90.1 | 65.6 | 77.8 | 102 | 48 | 57 | ..... | 73 | ..... | .504 | ..... | .74 | .41 | 6.1 | ..... | 3.7 |
| June | 28.901 | 29.104 | 28.764 | 74.2 | ..... | 95.2 | 72.8 | 84.0 | 102 | 60 | 66 | ..... | 76 | ..... | .644 | ..... | .81 | .56 | 4.5 | ..... | 4.1 |
| July | 28.912 | 29.103 | 28.776 | 75.9 | ..... | 96.6 | 74.5 | 85.0 | 105 | 70 | 70 | ..... | 81 | ..... | .728 | ..... | 5.70 | 3.35 | 3.8 | ..... | 3.5 |
| August | 28.936 | 29.035 | 28.805 | 75.9 | ..... | 97.6 | 73.3 | 85.4 | 108 | 68 | 66 | ..... | 76 | ..... | .639 | ..... | .31 | .26 | 1.7 | ..... | 2.8 |
| September | 29.010 | 29.254 | 28.704 | 65.5 | ..... | 90.5 | 65.3 | 77.9 | 98 | 45 | 59 | ..... | 80 | ..... | .534 | ..... | 3.16 | 3.07 | 1.9 | ..... | 2.0 |
| October | 29.046 | 29.354 | 28.761 | 58.0 | ..... | 85.0 | 56.3 | 70.6 | 95 | 38 | 52 | ..... | 81 | ..... | .413 | ..... | .06 | .06 | 3.2 | ..... | 2.0 |
| November | 29.054 | 29.472 | 28.664 | 56.9 | ..... | 77.2 | 53.4 | 65.3 | 88 | 36 | 51 | ..... | 81 | ..... | .401 | ..... | .40 | .12 | 6.3 | ..... | 4.7 |
| December | 29.099 | 29.451 | 28.703 | 37.5 | ..... | 58.8 | 35.3 | 47.0 | 82 | 26 | 34 | ..... | 84 | ..... | .201 | ..... | 1.14 | .58 | 5.1 | ..... | 4.1 |
| Year | 28.983 | 29.603 | 28.508 | 59.6 | ..... | 83.0 | 57.8 | 70.4 | 108 | 21 | 52 | ..... | 76 | ..... | .437 | ..... | 15.58 | 3.35 | 4.4 | ..... | 3.6 |

DENVER, COLO.

[$\phi$=39° 45′ N.; $\lambda$=105° 0′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 24.639 | 25.052 | 24.232 | 30.5 | 36.1 | 49.7 | 23.6 | 36.6 | 69 | − 1 | 18 | 22 | 61 | 55 | 0.098 | 0.121 | 0.21 | 0.16 | 4.0 | 5.5 | 4.9 |
| February | 24.584 | 24.996 | 24.114 | 27.3 | 36.8 | 45.9 | 20.6 | 33.2 | 64 | − 1 | 16 | 20 | 62 | 51 | .086 | .104 | 1.35 | .88 | 4.2 | ..4 | 4.0 |
| March | 24.616 | 24.920 | 24.316 | 30.7 | 41.2 | 47.5 | 26.6 | 37.0 | 65 | 5 | 22 | 24 | 72 | 55 | .115 | .133 | 3.03 | 2.43 | 4.8 | 6.4 | 5.0 |
| April | 24.635 | 25.129 | 24.212 | 34.5 | 49.0 | 55.7 | 30.7 | 43.2 | 76 | 14 | 26 | 26 | 72 | 47 | .137 | .134 | 2.59 | 1.26 | 5.3 | 6.1 | 4.9 |
| May | 24.619 | 24.856 | 24.322 | 42.9 | 60.5 | 66.1 | 40.5 | 53.3 | 82 | 23 | 31 | 30 | 65 | 36 | .179 | .174 | 1.74 | .64 | 4.9 | 6.4 | 5.5 |
| June | 24.764 | 24.936 | 24.560 | 55.6 | 72.4 | 78.2 | 53.2 | 65.7 | 92 | 46 | 47 | 47 | 74 | 44 | .326 | .332 | 1.70 | .49 | 3.5 | 5.6 | 4.4 |
| July | 24.782 | 25.079 | 24.559 | 61.8 | 79.4 | 86.0 | 59.9 | 73.0 | 95 | 56 | 51 | 52 | 69 | 43 | .381 | .402 | 4.17 | 1.53 | 2.5 | 5.0 | 3.6 |
| August | 24.824 | 25.026 | 24.674 | 61.6 | 78.5 | 85.2 | 59.9 | 72.6 | 93 | 54 | 52 | 51 | 72 | 42 | .394 | .384 | 2.13 | .60 | 4.1 | 6.9 | 4.9 |
| September | 24.831 | 25.110 | 24.477 | 51.4 | 68.0 | 73.8 | 48.7 | 61.2 | 88 | 34 | 42 | 44 | 72 | 47 | .277 | .296 | 3.78 | 1.94 | 3.6 | 5.4 | 4.0 |
| October | 24.775 | 25.130 | 24.373 | 42.8 | 58.7 | 67.1 | 37.8 | 52.4 | 79 | 26 | 28 | 31 | 60 | 38 | .160 | .175 | .28 | .16 | 4.4 | 4.6 | 3.8 |
| November | 24.720 | 25.109 | 24.382 | 36.6 | 46.2 | 54.8 | 30.6 | 42.7 | 75 | 9 | 24 | 26 | 63 | 51 | .126 | .139 | 1.10 | .47 | 5.1 | 5.6 | 5.3 |
| December | 24.642 | 24.907 | 24.285 | 16.2 | 25.3 | 32.8 | 9.6 | 21.2 | 63 | −13 | 11 | 15 | 80 | 66 | .073 | .080 | .88 | .41 | 4.7 | 3.0 | 3.8 |
| Year | 24.703 | 25.130 | 24.114 | 41.0 | 54.5 | 61.9 | 36.8 | 49.3 | 95 | −13 | 31 | 32 | 68 | 48 | .196 | .207 | 22.96 | 2.43 | 4.3 | 5.4 | 4.5 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

CORPUS CHRISTI, TEX.

[H=20 ft.; $h_t$=69 ft.; $h_r$=61 ft.; $h_a$=77 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Dense fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 12.8 | SE. | 39 | S. | 0 | 11 | 9 | 10 | 18 | 10 | 0 | 1 | 3 | 0 | 10 | 12 | 9 | 0 | 0 | 0 | 0 | 5 | 1 | 0 | 3 | 0 | 0 |
| February | 15.8 | S. | 42 | S. | 3 | 8 | 7 | 6 | 11 | 16 | 2 | 1 | 5 | 0 | 13 | 9 | 6 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| March | 15.9 | E. | 40 | E. | 1 | 10 | 5 | 17 | 16 | 8 | 3 | 0 | 3 | 0 | 5 | 16 | 10 | 6 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 |
| April | 18.4 | SE. | 55 | NE. | 7 | 6 | 6 | 9 | 25 | 9 | 3 | 1 | 1 | 0 | 10 | 12 | 8 | 3 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 0 |
| May | 18.3 | SE. | 49 | E. | 4 | 2 | 4 | 17 | 29 | 9 | 0 | 0 | 1 | 0 | 5 | 16 | 10 | 9 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 |
| June | 15.6 | SE. | 48 | NE. | 2 | 2 | 2 | 4 | 30 | 17 | 3 | 0 | 2 | 0 | 14 | 15 | 1 | 5 | 4 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 0 |
| July | 14.3 | SE. | 44 | E. | 1 | 1 | 0 | 2 | 32 | 22 | 3 | 0 | 2 | 0 | 18 | 11 | 2 | 4 | 3 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 |
| August | 14.1 | SE. | 56 | E. | 5 | 5 | 7 | 11 | 15 | 10 | 11 | 0 | 3 | 0 | 15 | 9 | 7 | 10 | 9 | 0 | 0 | 0 | 0 | 8 | 0 | 7 | 0 |
| September | 11.1 | SE. | 30 | NE. | 0 | 11 | 4 | 5 | 19 | 8 | 2 | 5 | 6 | 0 | 24 | 5 | 1 | 4 | 4 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 0 |
| October | 12.5 | SE. | 36 | SE. | 0 | 8 | 3 | 14 | 20 | 7 | 2 | 3 | 5 | 0 | 18 | 13 | 0 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 |
| November | 15.9 | SE. | 45 | SE. | 1 | 7 | 5 | 10 | 28 | 7 | 0 | 1 | 2 | 0 | 7 | 21 | 2 | 9 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| December | 12.6 | N. | 41 | N. | 2 | 24 | 10 | 5 | 7 | 7 | 1 | 0 | 8 | 0 | 10 | 7 | 14 | 7 | 5 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| Year | 14.8 | SE. | 56 | E. | 26 | 95 | 62 | 110 | 250 | 130 | 30 | 12 | 41 | 0 | 149 | 146 | 70 | 64 | 46 | 0 | 0 | 10 | 1 | 19 | 6 | 29 | 0 |

DAVENPORT, IOWA.

[H=606 ft.; $h_t$=71 ft.; $h_r$=65 ft.; $h_a$=79 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 7.9 | NW. | 36 | NW. | 0 | 5 | 8 | 7 | 5 | 10 | 5 | 9 | 13 | 0 | 4 | 7 | 20 | 10 | 7 | 7 | 0 | 3 | 12 | 0 | 25 | 1 | 0 |
| February | 9.3 | SW. | 32 | NE. | 0 | 5 | 8 | 4 | 5 | 5 | 11 | 8 | 10 | 0 | 6 | 9 | 13 | 13 | 12 | 7 | 0 | 0 | 6 | 0 | 26 | 0 | 0 |
| March | 9.0 | NW. | 29 | NE. | 0 | 4 | 4 | 13 | 6 | 0 | 1 | 9 | 25 | 0 | 6 | 17 | 8 | 11 | 6 | 9 | 0 | 0 | 2 | 0 | 23 | 0 | 0 |
| April | 10.8 | NW. | 46 | NW. | 2 | 4 | 8 | 8 | 5 | 7 | 5 | 9 | 13 | 1 | 10 | 6 | 14 | 17 | 13 | 1 | 3 | 2 | 0 | 0 | 6 | 6 | 0 |
| May | 8.9 | E. | 38 | NE. | 0 | 2 | 7 | 14 | 8 | 9 | 4 | 11 | 7 | 0 | 10 | 11 | 10 | 11 | 9 | 0 | 1 | 0 | 0 | 0 | 2 | 7 | 0 |
| June | 5.9 | E. | 26 | W. | 0 | 4 | 12 | 14 | 5 | 9 | 6 | 4 | 5 | 1 | 8 | 11 | 11 | 12 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 |
| July | 6.8 | E. | 26 | S. | 0 | 5 | 2 | 18 | 4 | 7 | 7 | 9 | 9 | 1 | 15 | 8 | 8 | 14 | 10 | 0 | 0 | 0 | 0 | 3 | 0 | 8 | 0 |
| August | 5.2 | SW. | 32 | E. | 0 | 8 | 4 | 16 | 4 | 8 | 8 | 9 | 4 | 1 | 17 | 11 | 3 | 5 | 4 | 0 | 0 | 0 | 0 | 15 | 0 | 8 | 0 |
| September | 5.7 | E. | 21 | SW. | 0 | 5 | 6 | 11 | 11 | 4 | 6 | 4 | 11 | 2 | 17 | 4 | 9 | 7 | 6 | 0 | 0 | 0 | 1 | 0 | 1 | 4 | 0 |
| October | 8.0 | W. | 34 | NW. | 0 | 4 | 7 | 10 | 7 | 6 | 4 | 14 | 9 | 1 | 18 | 6 | 7 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 1 |
| November | 9.3 | E. | 31 | S. | 0 | 4 | 9 | 12 | 6 | 8 | 6 | 9 | 6 | 0 | 10 | 9 | 11 | 12 | 11 | 1 | 0 | 0 | 1 | 0 | 7 | 4 | 0 |
| December | 8.9 | W. | 28 | W. | 0 | 3 | 3 | 6 | 3 | 3 | 4 | 30 | 10 | 0 | 6 | 5 | 16 | 13 | 9 | 10 | 0 | 0 | 22 | 0 | 27 | 1 | 0 |
| Year | 8.0 | E. | 46 | NW. | 2 | 53 | 78 | 133 | 69 | 76 | 67 | 125 | 122 | 7 | 127 | 108 | 130 | 132 | 102 | 35 | 5 | 6 | 43 | 19 | 121 | 52 | 1 |

DEL RIO, TEX.

[H=944 ft.; $h_t$=8 ft.; $h_r$=3 ft.; $h_a$= 57ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 7.8 | E. | 33 | NW. | 0 | 1 | 2 | 15 | 3 | 0 | 0 | 6 | 4 | 0 | 9 | 16 | 6 | 1 | 0 | 0 | 0 | 4 | 1 | 0 | 5 | 0 | 0 |
| February | 9.8 | E. | 42 | NW. | 1 | 1 | 3 | 12 | 4 | 0 | 0 | 1 | 7 | 0 | 17 | 7 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 0 |
| March | 9.4 | SE. | 36 | NW. | 0 | 2 | 2 | 7 | 6 | 0 | 0 | 2 | 12 | 0 | 12 | 16 | 3 | 4 | 3 | 0 | 1 | 0 | 0 | 6 | 0 | 3 | 0 |
| April | 10.2 | SE. | 42 | NW. | 1 | 1 | 1 | 10 | 9 | 0 | 1 | 1 | 7 | 0 | 17 | 11 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 |
| May | 9.1 | E. | 31 | SE. | 0 | 0 | 8 | 9 | 7 | 1 | 0 | 3 | 3 | 0 | 15 | 14 | 2 | 7 | 4 | 0 | 0 | 0 | 0 | 20 | 0 | 3 | 0 |
| June | 9.9 | SE. | 37 | SE. | 0 | 0 | 2 | 20 | 7 | 0 | 1 | 0 | 0 | 0 | 15 | 11 | 4 | 5 | 2 | 0 | 0 | 0 | 0 | 25 | 0 | 3 | 0 |
| July | 8.7 | SE. | 24 | E. | 0 | 0 | 2 | 21 | 6 | 0 | 0 | 0 | 2 | 0 | 18 | 9 | 4 | 5 | 5 | 0 | 0 | 0 | 0 | 26 | 0 | 4 | 0 |
| August | 7.3 | E. | 38 | SE. | 0 | 0 | 11 | 18 | 2 | 0 | 0 | 0 | 0 | 0 | 21 | 9 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 31 | 0 | 2 | 0 |
| September | 6.9 | SE. | 31 | NW. | 0 | 1 | 2 | 16 | 4 | 0 | 0 | 0 | 7 | 0 | 24 | 5 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 18 | 0 | 1 | 0 |
| October | 8.2 | SE. | 29 | NW. | 0 | 3 | 1 | 13 | 9 | 0 | 1 | 1 | 3 | 0 | 21 | 9 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| November | 9.0 | SE. | 56 | NW. | 1 | 2 | 3 | 8 | 11 | 0 | 0 | 0 | 6 | 0 | 11 | 15 | 4 | 6 | 5 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| December | 6.7 | SE. | 36 | N. | 0 | 3 | 1 | 6 | 6 | 0 | 1 | 0 | 14 | 0 | 17 | 6 | 8 | 7 | 6 | 0 | 0 | 0 | 2 | 0 | 9 | 0 | 0 |
| Year | 8.6 | E. | 56 | NW. | 3 | 14 | 38 | 155 | 74 | 1 | 4 | 14 | 65 | 0 | 197 | 128 | 40 | 45 | 33 | 0 | 1 | 5 | 3 | 139 | 17 | 17 | 0 |

DENVER, COLO.

[H=5,291 ft.; $h_t$=129 ft.; $h_r$=119 ft.; $h_a$=136 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 7.2 | SW. | 45 | N. | 1 | 8 | 6 | 2 | 4 | 10 | 19 | 6 | 7 | 0 | 8 | 18 | 5 | 3 | 2 | 3 | 0 | 0 | 4 | 0 | 21 | 0 | 0 |
| February | 8.5 | SW. | 39 | W. | 0 | 7 | 7 | 4 | 3 | 5 | 10 | 9 | 11 | 0 | 15 | 8 | 5 | 5 | 4 | 5 | 0 | 1 | 4 | 0 | 23 | 0 | 0 |
| March | 7.4 | SW. | 36 | W. | 0 | 15 | 12 | 5 | 6 | 4 | 12 | 3 | 5 | 0 | 12 | 11 | 8 | 10 | 6 | 9 | 0 | 1 | 2 | 0 | 24 | 1 | 0 |
| April | 8.2 | SW. | 44 | N. | 1 | 10 | 11 | 3 | 3 | 7 | 15 | 5 | 6 | 0 | 10 | 13 | 7 | 11 | 9 | 9 | 0 | 0 | 2 | 0 | 16 | 0 | 0 |
| May | 7.8 | SW. | 37 | SW. | 0 | 10 | 8 | 2 | 7 | 8 | 12 | 5 | 10 | 0 | 9 | 14 | 8 | 9 | 7 | 0 | 1 | 0 | 0 | 0 | 2 | 8 | 0 |
| June | 6.5 | SW. | 31 | SE. | 0 | 9 | 7 | 5 | 7 | 7 | 17 | 7 | 1 | 0 | 14 | 12 | 4 | 13 | 11 | 0 | 4 | 0 | 0 | 3 | 0 | 13 | 0 |
| July | 6.2 | SW. | 33 | SW. | 0 | 12 | 3 | 6 | 5 | 11 | 17 | 1 | 7 | 0 | 15 | 16 | 0 | 12 | 9 | 0 | 1 | 0 | 0 | 5 | 0 | 16 | 0 |
| August | 6.1 | S. | 28 | N. | 0 | 2 | 7 | 3 | 3 | 19 | 14 | 4 | 10 | 0 | 8 | 20 | 3 | 10 | 9 | 0 | 0 | 0 | 0 | 6 | 0 | 10 | 0 |
| September | 6.2 | S. | 30 | E. | 0 | 5 | 2 | 12 | 5 | 15 | 14 | 2 | 5 | 0 | 15 | 10 | 5 | 10 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| October | 7.1 | S. | 34 | SW. | 0 | 6 | 8 | 7 | 1 | 13 | 14 | 2 | 10 | 1 | 17 | 9 | 5 | 4 | 4 | 2 | 0 | 0 | 0 | 0 | 9 | 0 | 0 |
| November | 7.1 | S. | 35 | SW. | 0 | 11 | 6 | 5 | 8 | 8 | 18 | 3 | 1 | 0 | 9 | 12 | 9 | 7 | 6 | 7 | 0 | 2 | 3 | 0 | 15 | 0 | 0 |
| December | 5.9 | SW. | 32 | W. | 0 | 7 | 11 | 6 | 3 | 9 | 15 | 9 | 2 | 0 | 17 | 10 | 4 | 6 | 4 | 5 | 0 | 2 | 16 | 0 | 30 | 0 | 0 |
| Year | 7.0 | SW. | 45 | N. | 2 | 102 | 88 | 60 | 55 | 116 | 177 | 56 | 75 | 1 | 149 | 153 | 63 | 100 | 79 | 40 | 6 | 6 | 31 | 14 | 190 | 52 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

DES MOINES, IOWA.

[$\phi$=41° 35′ N.; $\lambda$=93° 37′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.198 | 29.649 | 28.177 | 19.7 | 25.4 | 31.0 | 14.6 | 22.8 | 59 | −15 | 17 | 20 | 88 | 82 | 0.111 | 0.124 | 1.61 | 0.90 | 6.2 | 4.8 | 7.7 |
| February | 28.993 | 29.529 | 28.182 | 23.7 | 31.6 | 39.4 | 19.9 | 29.6 | 60 | 1 | 20 | 24 | 85 | 76 | .114 | .135 | .90 | .42 | 5.4 | 6.5 | 5.8 |
| March | 29.055 | 29.558 | 28.532 | 28.2 | 37.6 | 41.8 | 25.5 | 33.6 | 65 | 0 | 24 | 28 | 84 | 67 | .131 | .151 | 1.56 | 1.05 | 6.6 | 4.8 | 8.0 |
| April | 29.007 | 29.499 | 28.428 | 39.7 | 49.2 | 54.6 | 35.6 | 45.1 | 76 | 24 | 32 | 36 | 75 | 62 | .190 | .222 | 5.14 | 1.34 | 5.5 | 6.4 | 7.1 |
| May | 28.949 | 29.250 | 28.483 | 52.4 | 65.2 | 69.2 | 49.1 | 59.2 | 92 | 27 | 44 | 48 | 75 | 55 | .310 | .349 | 4.24 | 1.67 | 6.0 | 5.9 | 6.3 |
| June | 29.056 | 29.357 | 28.863 | 64.4 | 74.4 | 79.0 | 61.1 | 70.0 | 88 | 54 | 60 | 65 | 85 | 74 | .521 | .627 | 7.03 | 1.67 | 6.3 | 5.1 | 7.0 |
| July | 29.054 | 29.348 | 28.680 | 67.5 | 78.5 | 81.6 | 64.2 | 72.9 | 96 | 54 | 62 | 66 | 84 | 68 | .572 | .660 | 4.41 | 1.68 | 6.0 | 4.5 | 5.9 |
| August | 29.092 | 29.464 | 28.857 | 70.1 | 83.1 | 88.5 | 67.7 | 78.1 | 96 | 50 | 63 | 65 | 78 | 55 | .592 | .631 | .14 | .11 | 3.3 | 2.6 | 3.9 |
| September | 29.165 | 29.635 | 28.665 | 56.2 | 68.4 | 73.9 | 53.7 | 63.8 | 89 | 41 | 53 | 57 | 88 | 68 | .414 | .477 | 2.06 | .56 | 4.9 | 4.2 | 5.4 |
| October | 29.127 | 29.623 | 28.760 | 43.8 | 55.5 | 61.7 | 41.2 | 51.4 | 89 | 20 | 38 | 42 | 79 | 61 | .243 | .287 | 2.89 | 1.06 | 3.9 | 5.1 | 5.3 |
| November | 29.132 | 29.614 | 28.643 | 40.2 | 47.9 | 54.5 | 35.1 | 44.8 | 76 | 14 | 36 | 38 | 86 | 71 | .233 | .247 | 3.71 | 1.67 | 6.8 | 5.4 | 7.7 |
| December | 29.110 | 29.500 | 28.674 | 14.5 | 18.5 | 23.7 | 10.1 | 16.9 | 48 | −12 | 12 | 15 | 89 | 86 | .087 | .096 | 2.32 | .73 | 7.0 | 5.3 | 6.5 |
| Year | 29.078 | 29.649 | 28.177 | 43.4 | 52.9 | 58.2 | 39.8 | 49.0 | 96 | −15 | 38 | 42 | 83 | 69 | .293 | .334 | 36.01 | 1.68 | 5.7 | 5.0 | 6.4 |

DETROIT, MICH.

[$\phi$=42° 20′ N.; $\lambda$=83° 03′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.311 | 29.781 | 28.341 | 26.6 | 29.4 | 35.0 | 22.2 | 28.6 | 61 | 4 | 23 | 24 | 84 | 78 | 0.135 | 0.143 | 2.51 | 0.79 | 6.1 | 6.3 | 7.1 |
| February | 29.112 | 29.751 | 28.392 | 25.6 | 30.9 | 36.2 | 22.2 | 29.2 | 52 | 0 | 23 | 25 | 87 | 78 | .127 | .142 | 4.26 | 1.16 | 7.9 | 6.6 | 7.7 |
| March | 29.102 | 29.635 | 28.554 | 29.5 | 33.7 | 39.5 | 26.3 | 32.9 | 53 | 15 | 24 | 26 | 78 | 71 | .129 | .139 | 1.71 | .74 | 6.4 | 5.7 | 6.5 |
| April | 29.190 | 29.695 | 28.593 | 39.9 | 44.6 | 52.8 | 34.0 | 43.4 | 74 | 21 | 34 | 35 | 78 | 68 | .202 | .212 | 4.25 | 2.13 | 6.6 | 6.4 | 6.6 |
| May | 29.139 | 29.486 | 28.782 | 51.9 | 57.9 | 64.1 | 47.3 | 55.7 | 81 | 30 | 46 | 47 | 80 | 69 | .319 | .341 | 3.78 | 1.41 | 5.7 | 6.1 | 4.9 |
| June | 29.222 | 29.462 | 28.900 | 63.6 | 69.3 | 75.3 | 58.9 | 67.1 | 87 | 48 | 56 | 59 | 78 | 70 | .472 | .507 | 4.95 | 2.18 | 5.8 | 5.8 | 5.2 |
| July | 29.190 | 29.573 | 28.783 | 67.2 | 73.9 | 79.8 | 62.5 | 71.2 | 90 | 54 | 58 | 57 | 74 | 57 | .497 | .484 | 5.94 | 4.57 | 4.3 | 4.8 | 4.5 |
| August | 29.263 | 29.561 | 28.904 | 67.0 | 72.8 | 80.5 | 62.5 | 71.5 | 92 | 50 | 59 | 58 | 75 | 61 | .502 | .492 | 3.75 | 1.89 | 4.7 | 3.3 | 4.1 |
| September | 29.325 | 29.644 | 28.903 | 56.9 | 62.8 | 69.5 | 53.3 | 61.4 | 87 | 39 | 51 | 52 | 80 | 68 | .386 | .401 | .75 | .43 | 4.3 | 4.4 | 5.2 |
| October | 29.292 | 29.818 | 28.757 | 42.8 | 48.9 | 55.0 | 39.5 | 47.2 | 75 | 26 | 37 | 37 | 80 | 65 | .229 | .234 | 1.46 | .62 | 5.1 | 5.1 | 5.5 |
| November | 29.353 | 29.790 | 28.769 | 42.3 | 45.0 | 52.4 | 37.4 | 44.9 | 70 | 24 | 37 | 38 | 83 | 77 | .236 | .242 | 4.70 | 2.61 | 7.2 | 4.9 | 7.1 |
| December | 29.159 | 29.601 | 28.561 | 21.5 | 23.9 | 28.8 | 17.1 | 23.0 | 59 | − 1 | 18 | 20 | 84 | 83 | .104 | .114 | 2.59 | 1.00 | 9.0 | 6.8 | 8.7 |
| Year | 29.222 | 29.818 | 28.341 | 44.6 | 49.4 | 55.7 | 40.3 | 48.0 | 92 | − 1 | 39 | 40 | 80 | 70 | .278 | .288 | 40.65 | 4.57 | 6.1 | 5.5 | 6.1 |

DEVILS LAKE, N. DAK.

[$\phi$=48° 7′ N.; $\lambda$=98° 52′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 28.443 | 29.048 | 27.792 | −2.5 | 4.1 | 10.4 | −7.9 | 1.2 | 41 | −37 | −5 | 2 | 89 | 90 | 0.047 | 0.063 | 0.26 | 0.18 | 4.1 | 5.2 | 5.3 |
| February | 28.364 | 29.061 | 27.812 | .4 | 8.2 | 14.2 | −4.0 | 5.1 | 34 | −25 | −1 | 6 | 92 | 91 | .046 | .064 | .43 | .16 | 6.2 | 6.4 | 6.5 |
| March | 28.391 | 28.937 | 27.876 | 13.8 | 22.4 | 27.0 | 9.8 | 18.4 | 40 | −10 | 12 | 20 | 93 | 88 | .082 | .109 | .39 | .14 | 6.1 | 6.4 | 5.5 |
| April | 28.348 | 28.801 | 27.906 | 26.1 | 36.1 | 42.0 | 23.3 | 32.6 | 62 | 13 | 22 | 22 | 84 | 59 | .120 | .124 | .64 | .17 | 7.3 | 5.7 | 5.7 |
| May | 28.306 | 28.606 | 27.786 | 44.0 | 56.6 | 61.5 | 39.8 | 50.6 | 83 | 18 | 39 | 38 | 83 | 55 | .254 | .249 | 5.18 | 2.86 | 6.2 | 5.4 | 5.5 |
| June | 28.397 | 28.732 | 28.082 | 57.4 | 67.8 | 72.7 | 52.6 | 62.6 | 89 | 41 | 52 | 53 | 81 | 61 | .394 | .421 | 3.05 | .71 | 5.1 | 5.0 | 4.4 |
| July | 28.348 | 28.657 | 27.988 | 60.7 | 71.5 | 77.0 | 56.8 | 66.9 | 89 | 47 | 57 | 60 | 88 | 69 | .473 | .531 | 2.56 | .96 | 4.8 | 4.0 | 4.5 |
| August | 28.389 | 28.766 | 27.945 | 59.6 | 72.8 | 79.5 | 55.2 | 67.4 | 90 | 39 | 56 | 58 | 87 | 60 | .453 | .490 | 3.60 | 1.30 | 4.4 | 3.3 | 3.9 |
| September | 28.426 | 28.725 | 27.949 | 48.9 | 62.2 | 71.5 | 46.0 | 58.6 | 87 | 31 | 45 | 48 | 87 | 61 | .306 | .346 | 1.15 | 1.02 | 3.7 | 3.1 | 3.9 |
| October | 28.420 | 28.962 | 27.959 | 33.4 | 44.0 | 51.6 | 31.4 | 41.5 | 87 | 9 | 29 | 30 | 84 | 60 | .172 | .178 | .21 | .14 | 5.8 | 5.6 | 5.9 |
| November | 28.412 | 28.972 | 27.695 | 22.1 | 28.6 | 37.2 | 16.8 | 27.0 | 62 | −11 | 19 | 21 | 87 | 75 | .109 | .120 | .26 | .10 | 5.9 | 5.6 | 5.9 |
| December | 28.434 | 28.818 | 27.836 | 2.3 | 4.7 | 11.3 | −4.0 | 3.6 | 35 | −31 | 1 | 3 | 94 | 91 | .049 | .052 | 1.05 | .50 | 6.4 | 6.0 | 6.9 |
| Year | 28.390 | 29.061 | 27.695 | 30.5 | 39.9 | 46.3 | 26.3 | 36.3 | 90 | −37 | 27 | 30 | 87 | 72 | .209 | .230 | 18.78 | 2.86 | 5.5 | 5.1 | 5.3 |

DODGE CITY, KANS.

[$\phi$=37° 45′ N.; $\lambda$=100° 00′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 27.448 | 27.953 | 26.864 | 23.3 | 32.4 | 42.5 | 17.6 | 30.0 | 74 | − 8 | 18 | 20 | 81 | 59 | 0.110 | 0.116 | 0.29 | 0.16 | 3.4 | 3.5 | 4.2 |
| February | 27.294 | 27.786 | 26.725 | 24.5 | 42.3 | 52.8 | 19.5 | 36.2 | 71 | − 3 | 16 | 19 | 68 | 40 | .091 | .101 | .16 | .08 | 3.4 | 3.2 | 3.1 |
| March | 27.338 | 27.786 | 26.812 | 30.0 | 46.7 | 53.8 | 27.6 | 40.7 | 73 | 7 | 24 | 29 | 77 | 53 | .133 | .168 | 1.15 | .44 | 4.0 | 4.5 | 4.8 |
| April | 27.304 | 27.876 | 26.746 | 40.1 | 59.0 | 65.6 | 37.2 | 51.4 | 93 | 27 | 33 | 32 | 76 | 40 | .194 | .188 | .02 | .02 | 3.0 | 4.6 | 3.5 |
| May | 27.252 | 27.550 | 26.848 | 51.9 | 69.2 | 75.5 | 47.4 | 61.4 | 92 | 19 | 43 | 41 | 73 | 42 | .299 | .274 | 2.53 | 1.21 | 4.5 | 4.1 | 4.1 |
| June | 27.344 | 27.557 | 27.128 | 64.8 | 80.0 | 85.3 | 62.1 | 73.7 | 99 | 51 | 60 | 60 | 84 | 52 | .516 | .524 | 3.20 | 1.43 | 4.1 | 5.0 | 4.2 |
| July | 27.345 | 27.653 | 27.050 | 70.0 | 86.3 | 91.4 | 67.6 | 79.5 | 100 | 60 | 64 | 62 | 83 | 46 | .611 | .569 | 2.93 | .92 | 4.2 | 2.8 | 4.1 |
| August | 27.413 | 27.749 | 27.205 | 69.8 | 85.2 | 93.3 | 68.1 | 80.7 | 103 | 56 | 61 | 59 | 74 | 44 | .539 | .506 | 1.25 | .90 | 3.1 | 3.6 | 3.9 |
| September | 27.442 | 27.777 | 26.982 | 58.6 | 74.7 | 83.3 | 57.0 | 70.2 | 100 | 45 | 52 | 51 | 79 | 46 | .406 | .394 | 1.50 | .88 | 3.2 | 2.8 | 2.8 |
| October | 27.445 | 27.849 | 27.034 | 46.0 | 59.2 | 69.5 | 43.0 | 56.2 | 88 | 26 | 38 | 40 | 76 | 52 | .237 | .247 | .92 | .32 | 3.2 | 3.5 | 3.8 |
| November | 27.439 | 27.933 | 27.089 | 38.3 | 48.7 | 59.5 | 34.6 | 47.0 | 82 | 19 | 34 | 38 | 84 | 65 | .204 | .224 | 5.81 | 2.14 | 4.7 | 3.7 | 4.8 |
| December | 27.416 | 27.706 | 27.069 | 18.1 | 24.2 | 31.9 | 12.6 | 22.2 | 63 | − 4 | 14 | 16 | 84 | 70 | .088 | .097 | .79 | .41 | 3.5 | 3.3 | 4.7 |
| Year | 27.373 | 27.953 | 26.725 | 44.6 | 59.0 | 67.0 | 41.2 | 54.1 | 103 | − 8 | 38 | 39 | 78 | 51 | .286 | .284 | 20.55 | 2.14 | 3.7 | 3.7 | 4.0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

DES MOINES, IOWA.

[H=861 ft.; $h_t$=84 ft.; $h_r$=76 ft.; $h_a$=101 ft.]

| Month. | Wind. | | | | | | | | | | | | | | Number of days. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | By self-register. | | | | | Number of winds, 8 a. m. and 8 p. m. | | | | | | | | | | | | Precipitation. | | | | | Maximum temp. | | | Electricity. | |
| | Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | North | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Clear. | Partly cloudy. | Cloudy. | 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | 32° or below. | 90° or above. | Minimum temperature 32° or below. | Thunderstorms. | Auroras. |
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 9.3 | SW. | 44 | NW. | 1 | 8 | 5 | 5 | 9 | 10 | 11 | 3 | 11 | 0 | 4 | 6 | 21 | 7 | 4 | 5 | 0 | 4 | 17 | 0 | 25 | 0 | 0 |
| February | 10.1 | SW. | 43 | SW. | 1 | 7 | 4 | 6 | 3 | 5 | 11 | 6 | 13 | 1 | 10 | 6 | 12 | 7 | 6 | 6 | 0 | 0 | 7 | 0 | 26 | 0 | 0 |
| March | 8.8 | NW. | 31 | NW. | 0 | 7 | 13 | 4 | 5 | 4 | 3 | 10 | 16 | 0 | 3 | 3 | 25 | 8 | 6 | 6 | 0 | 2 | 5 | 0 | 26 | 3 | 0 |
| April | 11.3 | NW. | 53 | SW. | 2 | 9 | 2 | 8 | 13 | 3 | 5 | 6 | 14 | 0 | 3 | 10 | 17 | 15 | 12 | 4 | 0 | 2 | 0 | 0 | 6 | 9 | 0 |
| May | 9.2 | SE. | 35 | SW. | 0 | 5 | 3 | 12 | 13 | 8 | 6 | 5 | 10 | 0 | 7 | 8 | 16 | 12 | 7 | 0 | 0 | 0 | 0 | 1 | 3 | 7 | 0 |
| June | 6.5 | S. | 32 | NE. | 0 | 8 | 10 | 4 | 7 | 15 | 10 | 4 | 2 | 0 | 6 | 6 | 18 | 18 | 14 | 0 | 2 | 1 | 0 | 0 | 0 | 13 | 0 |
| July | 6.6 | NW. | 26 | N. | 0 | 6 | 1 | 16 | 7 | 7 | 12 | 3 | 9 | 1 | 8 | 12 | 11 | 14 | 11 | 0 | 0 | 0 | 0 | 4 | 0 | 8 | 0 |
| August | 6.3 | SW. | 29 | SW. | 0 | 9 | 4 | 2 | 11 | 16 | 15 | 1 | 4 | 0 | 14 | 14 | 3 | 3 | 1 | 0 | 0 | 1 | 0 | 16 | 0 | 4 | 0 |
| September | 5.9 | SE. | 29 | W. | 0 | 6 | 5 | 8 | 15 | 5 | 4 | 5 | 9 | 3 | 10 | 9 | 11 | 9 | 6 | 0 | 0 | 2 | 0 | 0 | 0 | 6 | 0 |
| October | 8.3 | SE. | 33 | NW. | 0 | 2 | 4 | 8 | 13 | 4 | 9 | 10 | 11 | 1 | 13 | 5 | 13 | 7 | 5 | 0 | 1 | 1 | 0 | 0 | 7 | 4 | 0 |
| November | 9.2 | S. | 40 | SW. | 1 | 7 | 5 | 2 | 10 | 12 | 10 | 6 | 8 | 0 | 5 | 4 | 21 | 11 | 8 | 2 | 0 | 1 | 1 | 0 | 10 | 2 | 0 |
| December | 8.6 | W. | 29 | W. | 0 | 6 | 1 | 4 | 2 | 4 | 9 | 19 | 17 | 0 | 10 | 2 | 19 | 14 | 9 | 11 | 0 | 0 | 25 | 0 | 28 | 0 | 0 |
| Year | 8.3 | NW. | 53 | SW. | 5 | 80 | 57 | 79 | 108 | 93 | 105 | 78 | 124 | 6 | 93 | 85 | 187 | 125 | 89 | 34 | 3 | 14 | 55 | 21 | 131 | 56 | 0 |

DETROIT, MICH.

[H=730 ft.; $h_t$=218 ft.; $h_r$=214 ft.; $h_a$=258 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 16.0 | SW. | 50 | E. | 3 | 11 | 3 | 6 | 1 | 14 | 11 | 8 | 8 | 0 | 5 | 7 | 19 | 11 | 10 | 6 | 0 | 4 | 11 | 0 | 24 | 3 | 0 |
| February | 17.6 | SW. | 56 | W. | 4 | 4 | 6 | 5 | 4 | 10 | 9 | 12 | 6 | 0 | 4 | 7 | 17 | 12 | 8 | 7 | 0 | 2 | 9 | 0 | 26 | 0 | 0 |
| March | 15.2 | NW. | 50 | W. | 4 | 6 | 6 | 13 | 3 | 5 | 3 | 10 | 16 | 0 | 6 | 11 | 14 | 11 | 8 | 7 | 0 | 1 | 4 | 0 | 29 | 0 | 0 |
| April | 17.1 | E. | 70 | SW. | 6 | 7 | 6 | 8 | 6 | 13 | 5 | 8 | 7 | 0 | 6 | 11 | 13 | 13 | 9 | 3 | 2 | 0 | 0 | 0 | 14 | 7 | 0 |
| May | 15.0 | E. | 54 | W. | 6 | 6 | 6 | 14 | 1 | 11 | 8 | 11 | 5 | 0 | 11 | 12 | 8 | 15 | 10 | 2 | 2 | 0 | 0 | 0 | 2 | 3 | 0 |
| June | 11.0 | SW. | 34 | E. | 0 | 8 | 9 | 12 | 1 | 8 | 11 | 8 | 3 | 0 | 9 | 12 | 9 | 13 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| July | 12.1 | S. | 60 | SW. | 3 | 6 | 6 | 8 | 2 | 15 | 11 | 4 | 10 | 0 | 13 | 12 | 6 | 9 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| August | 11.5 | E. | 60 | NW. | 1 | 9 | 8 | 13 | 8 | 5 | 8 | 7 | 4 | 0 | 15 | 12 | 4 | 9 | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 9 | 0 |
| September | 12.7 | N. | 39 | SW. | 0 | 12 | 8 | 7 | 3 | 10 | 8 | 7 | 5 | 0 | 10 | 11 | 9 | 8 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 |
| October | 15.0 | SW. | 50 | SW. | 2 | 7 | 4 | 12 | 1 | 8 | 11 | 12 | 7 | 0 | 7 | 10 | 14 | 9 | 4 | 2 | 0 | 3 | 0 | 0 | 6 | 0 | 2 |
| November | 16.2 | S. | 57 | W. | 3 | 6 | 8 | 10 | 4 | 9 | 11 | 8 | 4 | 0 | 5 | 6 | 19 | 8 | 5 | 1 | 1 | 1 | 0 | 0 | 7 | 2 | 0 |
| December | 17.9 | W. | 56 | SW. | 5 | 2 | 2 | 7 | 5 | 4 | 10 | 26 | 6 | 0 | 2 | 5 | 24 | 17 | 9 | 15 | 0 | 2 | 22 | 0 | 29 | 0 | 0 |
| Year | 14.8 | W. | 70 | SW. | 37 | 84 | 72 | 115 | 39 | 112 | 106 | 121 | 81 | 0 | 93 | 116 | 156 | 135 | 88 | 43 | 5 | 14 | 46 | 1 | 137 | 39 | 2 |

DEVILS LAKE, N. DAK.

[H=1,482 ft.; $h_t$=11 ft.; $h_r$=4 ft.; $h_a$=44 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 14.0 | W. | 48 | N. | 2 | 4 | 6 | 2 | 13 | 5 | 8 | 15 | 9 | 0 | 11 | 10 | 10 | 5 | 2 | 4 | 0 | 0 | 26 | 0 | 31 | 0 | 2 |
| February | 10.5 | NW. | 28 | N. | 0 | 4 | 7 | 6 | 9 | 1 | 4 | 13 | 12 | 0 | 5 | 8 | 15 | 9 | 3 | 9 | 0 | 0 | 27 | 0 | 28 | 0 | 0 |
| March | 12.5 | NW. | 44 | N. | 1 | 10 | 0 | 5 | 12 | 3 | 4 | 12 | 15 | 1 | 10 | 6 | 15 | 10 | 3 | 10 | 0 | 0 | 23 | 0 | 31 | 0 | 0 |
| April | 14.7 | NW. | 48 | NW. | 2 | 8 | 6 | 7 | 8 | 6 | 4 | 6 | 15 | 0 | 9 | 12 | 9 | 12 | 8 | 10 | 0 | 0 | 4 | 0 | 29 | 0 | 0 |
| May | 12.8 | E. | 42 | E. | 2 | 4 | 13 | 12 | 11 | 4 | 3 | 5 | 10 | 0 | 9 | 11 | 11 | 15 | 11 | 1 | 1 | 0 | 0 | 0 | 6 | 4 | 1 |
| June | 10.9 | NE. | 36 | NE. | 0 | 4 | 14 | 12 | 6 | 4 | 10 | 6 | 4 | 0 | 13 | 13 | 4 | 13 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 |
| July | 9.7 | SE. | 38 | W. | 0 | 4 | 7 | 4 | 20 | 4 | 4 | 7 | 12 | 0 | 12 | 13 | 6 | 11 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 9 | 0 |
| August | 9.7 | SE. | 46 | NE. | 1 | 6 | 8 | 7 | 21 | 4 | 3 | 7 | 6 | 0 | 14 | 13 | 4 | 10 | 7 | 0 | 0 | 0 | 0 | 2 | 0 | 7 | 2 |
| September | 10.6 | SE. | 30 | N. | 0 | 4 | 4 | 2 | 18 | 12 | 7 | 6 | 7 | 0 | 13 | 13 | 4 | 5 | 4 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 |
| October | 11.3 | NW. | 36 | NW. | 0 | 8 | 5 | 3 | 9 | 8 | 2 | 8 | 19 | 0 | 9 | 8 | 14 | 7 | 1 | 4 | 0 | 0 | 1 | 0 | 20 | 2 | 2 |
| November | 11.1 | NW. | 36 | N. | 0 | 6 | 5 | 6 | 10 | 10 | 5 | 7 | 11 | 0 | 11 | 7 | 12 | 7 | 3 | 7 | 0 | 0 | 14 | 0 | 26 | 0 | 1 |
| December | 12.5 | NW. | 38 | N. | 0 | 10 | 4 | 3 | 3 | 5 | 4 | 12 | 21 | 0 | 7 | 7 | 17 | 12 | 7 | 12 | 0 | 0 | 29 | 0 | 31 | 0 | 1 |
| Year | 11.7 | NW. | 48 | NW. | 8 | 72 | 79 | 69 | 140 | 66 | 58 | 104 | 141 | 1 | 123 | 121 | 121 | 116 | 68 | 57 | 2 | 1 | 124 | 2 | 203 | 33 | 9 |

DODGE CITY, KANS.

[H=2,509 ft.; $h_t$=11 ft.; $h_r$=3 ft.; $h_a$=51 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 9.8 | SE. | 43 | NW. | 1 | 13 | 2 | 7 | 16 | 5 | 2 | 8 | 9 | 0 | 14 | 14 | 3 | 4 | 3 | 3 | 0 | 3 | 9 | 0 | 28 | 0 | 0 |
| February | 10.7 | NW. | 39 | S. | 0 | 6 | 2 | 2 | 10 | 5 | 3 | 12 | 16 | 0 | 18 | 7 | 3 | 3 | 2 | 2 | 0 | 0 | 4 | 0 | 28 | 0 | 0 |
| March | 9.3 | NW. | 37 | N. | 0 | 6 | 9 | 6 | 10 | 4 | 2 | 7 | 18 | 0 | 12 | 12 | 7 | 6 | 5 | 4 | 2 | 0 | 2 | 0 | 22 | 2 | 0 |
| April | 12.1 | NW. | 41 | SE. | 2 | 8 | 5 | 2 | 12 | 10 | 3 | 6 | 14 | 0 | 17 | 10 | 3 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 9 | 1 | 0 |
| May | 11.7 | SE. | 46 | NW. | 4 | 4 | 5 | 6 | 13 | 4 | 4 | 11 | 15 | 0 | 13 | 14 | 4 | 8 | 5 | 0 | 1 | 0 | 2 | 2 | 2 | 5 | 0 |
| June | 9.9 | SE. | 42 | NW. | 1 | 7 | 3 | 7 | 24 | 6 | 4 | 4 | 5 | 0 | 14 | 13 | 3 | 12 | 11 | 0 | 1 | 2 | 0 | 11 | 0 | 11 | 0 |
| July | 8.8 | S. | 42 | NW. | 1 | 7 | 4 | 11 | 15 | 18 | 2 | 1 | 3 | 1 | 14 | 15 | 2 | 10 | 9 | 0 | 0 | 1 | 0 | 19 | 0 | 11 | 0 |
| August | 9.4 | S. | 40 | SE. | 1 | 4 | 4 | 5 | 7 | 38 | 1 | 2 | 1 | 0 | 17 | 11 | 3 | 6 | 4 | 0 | 1 | 0 | 0 | 26 | 0 | 9 | 0 |
| September | 9.1 | SE. | 40 | SE. | 1 | 10 | 3 | 3 | 20 | 12 | 4 | 2 | 4 | 2 | 19 | 9 | 2 | 8 | 5 | 0 | 0 | 0 | 0 | 8 | 0 | 4 | 0 |
| October | 10.6 | S. | 36 | S. | 0 | 4 | 6 | 5 | 18 | 9 | 4 | 5 | 11 | 0 | 19 | 5 | 7 | 8 | 6 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 |
| November | 9.9 | S. | 39 | N. | 0 | 8 | 3 | 3 | 9 | 15 | 1 | 13 | 8 | 0 | 13 | 7 | 10 | 8 | 7 | 1 | 1 | 1 | 1 | 0 | 15 | 1 | 0 |
| December | 10.7 | NW. | 38 | N. | 0 | 9 | 4 | 4 | 8 | 5 | 3 | 10 | 19 | 0 | 14 | 11 | 6 | 8 | 4 | 7 | 0 | 3 | 17 | 0 | 31 | 0 | 0 |
| Year | 10.2 | SE. | 46 | NW. | 11 | 86 | 50 | 61 | 162 | 131 | 33 | 81 | 123 | 3 | 184 | 128 | 53 | 80 | 61 | 17 | 6 | 15 | 33 | 67 | 138 | 45 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

## DUBUQUE IOWA.

[$\phi$=42° 30′ N.; $\lambda$=90° 44′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.396 | 29.866 | 28.457 | 18.5 | 23.9 | 29.7 | 13.0 | 21.4 | 55 | −19 | 16 | 19 | 90 | 82 | 0.111 | 0.127 | 1.98 | 1.40 | 6.2 | 5.8 | 7.3 |
| February | 29.195 | 29.694 | 28.484 | 23.1 | 29.5 | 34.9 | 18.9 | 26.9 | 54 | 3 | 20 | 24 | 88 | 78 | .116 | .130 | 1.32 | .50 | 6.6 | 6.7 | 6.8 |
| March | 29.217 | 29.769 | 28.619 | 28.8 | 34.9 | 39.4 | 26.1 | 32.8 | 54 | 6 | 24 | 25 | 81 | 68 | .130 | .137 | 1.25 | .48 | 5.8 | 5.5 | 6.1 |
| April | 29.193 | 29.666 | 28.580 | 38.8 | 46.9 | 51.8 | 35.1 | 43.4 | 66 | 21 | 32 | 33 | 78 | 60 | .189 | .200 | 7.40 | 2.45 | 6.8 | 7.1 | 6.3 |
| May | 29.155 | 29.472 | 28.742 | 52.7 | 63.5 | 68.1 | 48.3 | 58.2 | 90 | 30 | 43 | 44 | 71 | 50 | .297 | .301 | 2.32 | 1.48 | 4.8 | 5.8 | 4.9 |
| June | 29.260 | 29.618 | 29.023 | 63.1 | 73.7 | 77.8 | 59.6 | 68.7 | 90 | 46 | 57 | 59 | 80 | 62 | .472 | .519 | 6.61 | 2.41 | 6.2 | 6.1 | 5.8 |
| July | 29.246 | 29.618 | 28.895 | 66.4 | 77.6 | 80.9 | 62.6 | 71.8 | 96 | 53 | 59 | 60 | 78 | 58 | .511 | .542 | 1.30 | .40 | 4.3 | 4.7 | 5.1 |
| August | 29.290 | 29.607 | 29.031 | 68.8 | 78.9 | 84.8 | 65.3 | 75.0 | 93 | 51 | 62 | 62 | 80 | 59 | .574 | .585 | 1.50 | .60 | 4.2 | 4.6 | 4.5 |
| September | 29.367 | 29.876 | 28.882 | 54.9 | 64.8 | 72.0 | 52.4 | 62.2 | 87 | 36 | 52 | 55 | 89 | 70 | .398 | .454 | 4.28 | 3.25 | 3.9 | 5.2 | 5.0 |
| October | 29.321 | 29.880 | 28.842 | 41.4 | 50.7 | 57.6 | 39.2 | 48.4 | 79 | 23 | 36 | 38 | 81 | 62 | .221 | .249 | 2.03 | .95 | 4.7 | 4.3 | 4.7 |
| November | 29.346 | 29.848 | 28.838 | 30.6 | 46.2 | 53.7 | 34.8 | 44.2 | 71 | 13 | 35 | 37 | 84 | 72 | .224 | .237 | 2.94 | 1.19 | 6.2 | 5.1 | 6.0 |
| December | 29.270 | 29.711 | 28.837 | 15.4 | 18.1 | 24.0 | 9.3 | 16.6 | 54 | −11 | 13 | 15 | 88 | 88 | .095 | .097 | 2.08 | .66 | 7.2 | 6.9 | 6.8 |
| Year | 29.271 | 29.880 | 28.457 | 42.6 | 50.7 | 56.2 | 38.7 | 47.5 | 96 | −19 | 37 | 39 | 82 | 67 | .278 | .298 | 35.01 | 3.25 | 5.6 | 5.6 | 5.8 |

## DULUTH, MINN.

[$\phi$=46° 47′ N.; $\lambda$=92° 6′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 28.831 | 29.346 | 28.360 | 7.8 | 12.3 | 18.9 | 1.2 | 10.0 | 40 | −34 | 5 | 9 | 87 | 84 | 0.073 | 0.079 | 1.02 | 0.53 | 6.0 | 5.7 | 5.9 |
| February | 28.697 | 29.341 | 28.089 | 8.5 | 15.5 | 20.4 | 5.2 | 12.8 | 33 | −18 | 6 | 12 | 89 | 84 | .062 | .079 | 1.34 | .66 | 6.9 | 6.0 | 5.9 |
| March | 28.714 | 29.223 | 28.041 | 20.1 | 27.6 | 31.6 | 18.1 | 24.8 | 43 | − 5 | 18 | 21 | 89 | 76 | .099 | .115 | .78 | .24 | 5.8 | 4.8 | 5.3 |
| April | 28.714 | 29.109 | 28.234 | 28.8 | 33.8 | 39.5 | 24.5 | 32.0 | 58 | 8 | 24 | 26 | 82 | 75 | .132 | .146 | 2.15 | .63 | 6.6 | 5.3 | 6.5 |
| May | 28.686 | 28.967 | 28.155 | 42.2 | 46.9 | 53.2 | 36.5 | 44.8 | 68 | 19 | 38 | 41 | 85 | 81 | .237 | .265 | 1.87 | .92 | 5.6 | 5.6 | 5.9 |
| June | 28.785 | 29.080 | 28.538 | 55.7 | 62.6 | 69.9 | 48.3 | 59.1 | 87 | 38 | 52 | 56 | 89 | 82 | .405 | .474 | 1.33 | .75 | 4.9 | 6.2 | 5.3 |
| July | 28.749 | 29.054 | 28.333 | 61.8 | 67.7 | 73.1 | 54.9 | 64.0 | 84 | 46 | 58 | 61 | 88 | 80 | .486 | .544 | 10.83 | 5.35 | 3.7 | 4.1 | 4.5 |
| August | 28.800 | 29.134 | 28.453 | 60.8 | 66.3 | 72.4 | 56.7 | 64.6 | 84 | 41 | 58 | 60 | 90 | 82 | .484 | .533 | 4.91 | 2.82 | 5.8 | 4.0 | 5.7 |
| September | 28.857 | 29.391 | 28.244 | 50.3 | 55.1 | 63.8 | 46.0 | 54.9 | 75 | 37 | 47 | 47 | 89 | 76 | .331 | .335 | 3.28 | 2.64 | 5.0 | 3.5 | 4.5 |
| October | 28.776 | 29.334 | 28.197 | 38.6 | 42.6 | 48.9 | 36.1 | 42.5 | 73 | 18 | 35 | 35 | 87 | 75 | .212 | .216 | 2.15 | 1.56 | 6.2 | 6.2 | 6.6 |
| November | 28.816 | 29.374 | 28.177 | 30.8 | 34.0 | 40.3 | 27.0 | 33.6 | 63 | 11 | 28 | 29 | 90 | 82 | .164 | .163 | 2.16 | 1.10 | 7.0 | 6.7 | 7.4 |
| December | 28.720 | 29.177 | 28.176 | 10.5 | 13.3 | 18.4 | 6.3 | 12.4 | 42 | −17 | 9 | 11 | 93 | 90 | .078 | .080 | 1.83 | 1.18 | 7.1 | 6.3 | 7.0 |
| Year | 28.762 | 29.391 | 28.041 | 34.7 | 39.8 | 45.9 | 30.1 | 38.0 | 87 | −34 | 32 | 34 | 88 | 81 | .230 | .252 | 33.65 | 5.35 | 5.9 | 5.4 | 5.9 |

## DURANGO, COLO.

[$\phi$=37° 16′ N.; $\lambda$=107° 52′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 23.659 | 23.877 | 23.333 | 21.8 | 34.0 | 40.4 | 19.0 | 29.7 | 51 | − 2 | 17 | 25 | 82 | 70 | 0.097 | 0.137 | 2.59 | 0.58 | 5.0 | 5.8 | 6.0 |
| February | 23.564 | 24.007 | 23.123 | 17.4 | 34.2 | 40.0 | 14.5 | 27.2 | 51 | 0 | 13 | 20 | 81 | 56 | .081 | .108 | 2.97 | .82 | 3.4 | 5.8 | 4.6 |
| March | 23.528 | 23.808 | 23.279 | 24.9 | 43.4 | 47.4 | 23.0 | 35.2 | 57 | 6 | 20 | 23 | 78 | 44 | .106 | .119 | 1.27 | .56 | 5.2 | 5.4 | 4.7 |
| April | 23.558 | 23.967 | 23.165 | 30.4 | 52.5 | 57.1 | 28.6 | 42.8 | 72 | 14 | 22 | 20 | 70 | 29 | .119 | .107 | .79 | .36 | 2.7 | 5.0 | 4.4 |
| May | 23.552 | 23.771 | 23.333 | 35.8 | 62.0 | 65.4 | 34.4 | 49.9 | 75 | 22 | 26 | 22 | 66 | 24 | .140 | .121 | .62 | .24 | 4.1 | 4.9 | 4.9 |
| June | 23.686 | 23.840 | 23.491 | 46.1 | 78.7 | 81.9 | 44.8 | 63.4 | 94 | 38 | 32 | 29 | 58 | 18 | .183 | .165 | .27 | .22 | 1.7 | 3.5 | 3.1 |
| July | 23.741 | 23.915 | 23.515 | 53.7 | 79.7 | 84.7 | 53.1 | 68.9 | 91 | 46 | 44 | 42 | 72 | 32 | .301 | .280 | 2.20 | .58 | 4.5 | 4.7 | 4.4 |
| August | 23.785 | 23.964 | 23.625 | 54.3 | 71.8 | 79.7 | 53.9 | 66.8 | 86 | 48 | 50 | 52 | 86 | 53 | .364 | .396 | 3.54 | .98 | 5.1 | 7.4 | 6.0 |
| September | 23.778 | 24.039 | 23.460 | 43.8 | 66.6 | 71.9 | 42.9 | 57.4 | 80 | 31 | 39 | 40 | 84 | 40 | .252 | .260 | 3.63 | 2.01 | 3.3 | 2.8 | 3.5 |
| October | 23.728 | 24.037 | 23.404 | 34.1 | 57.5 | 66.9 | 32.9 | 49.9 | 74 | 22 | 25 | 25 | 68 | 30 | .137 | .140 | .44 | .21 | 2.2 | 3.7 | 3.1 |
| November | 23.682 | 24.006 | 23.413 | 26.3 | 41.6 | 49.9 | 23.8 | 36.8 | 68 | 5 | 20 | 26 | 79 | 57 | .110 | .140 | 1.81 | .70 | 3.4 | 4.1 | 4.5 |
| December | 23.588 | 23.951 | 23.200 | 8.8 | 21.3 | 28.6 | 4.7 | 16.6 | 43 | −12 | 7 | 17 | 90 | 82 | .066 | .095 | 3.81 | 1.05 | 4.8 | 4.7 | 4.3 |
| Year | 23.654 | 24.039 | 23.123 | 33.1 | 53.6 | 59.5 | 31.3 | 45.4 | 94 | −12 | 26 | 28 | 76 | 45 | .163 | .172 | 23.94 | 2.01 | 3.8 | 4.8 | 4.5 |

## EASTPORT, ME.

[$\phi$=44° 54′ N.; $\lambda$=66° 59′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.997 | 30.786 | 28.919 | 19.6 | 22.6 | 29.9 | 13.2 | 21.6 | 52 | − 6 | 14 | 18 | 79 | 80 | 0.097 | 0.109 | 7.09 | 2.78 | 7.0 | 6.0 | 7.3 |
| February | 29.785 | 30.523 | 28.867 | 18.5 | 24.6 | 30.6 | 13.9 | 22.2 | 47 | − 4 | 13 | 19 | 78 | 80 | .090 | .116 | 4.76 | 1.37 | 7.0 | 5.1 | 6.8 |
| March | 29.612 | 30.100 | 29.001 | 27.2 | 32.0 | 36.2 | 24.4 | 30.3 | 45 | 8 | 21 | 26 | 77 | 78 | .118 | .143 | 5.10 | 2.28 | 6.0 | 4.5 | 6.4 |
| April | 29.932 | 30.529 | 29.273 | 35.5 | 37.3 | 43.8 | 31.9 | 37.8 | 56 | 18 | 30 | 32 | 77 | 81 | .165 | .182 | 3.86 | .96 | 6.1 | 5.3 | 6.7 |
| May | 29.833 | 30.281 | 29.422 | 46.3 | 48.0 | 55.7 | 41.7 | 48.7 | 69 | 34 | 40 | 42 | 79 | 79 | .249 | .264 | 1.56 | .50 | 6.5 | 5.8 | 7.0 |
| June | 29.823 | 30.130 | 29.455 | 55.9 | 55.5 | 67.6 | 47.3 | 57.4 | 86 | 36 | 48 | 48 | 77 | 77 | .347 | .343 | 1.59 | .80 | 5.3 | 4.7 | 6.3 |
| July | 29.775 | 30.170 | 29.257 | 57.9 | 59.0 | 68.9 | 51.2 | 60.0 | 85 | 45 | 52 | 52 | 81 | 81 | .392 | .400 | 3.37 | 1.33 | 5.6 | 2.9 | 6.6 |
| August | 29.892 | 30.273 | 29.380 | 58.1 | 59.1 | 68.3 | 52.1 | 60.2 | 78 | 44 | 52 | 53 | 81 | 81 | .392 | .407 | 1.61 | .66 | 5.0 | 3.3 | 6.4 |
| September | 30.033 | 30.429 | 29.528 | 54.4 | 55.1 | 61.8 | 50.1 | 56.0 | 71 | 44 | 50 | 51 | 86 | 87 | .366 | .378 | 6.40 | 2.18 | 5.8 | 3.4 | 7.4 |
| October | 29.822 | 30.285 | 29.262 | 46.7 | 48.3 | 54.8 | 43.0 | 48.9 | 78 | 28 | 41 | 42 | 81 | 81 | .271 | .283 | 2.54 | .78 | 5.5 | 5.0 | 6.5 |
| November | 30.025 | 30.621 | 29.274 | 38.8 | 40.5 | 45.7 | 34.3 | 40.0 | 57 | 20 | 34 | 35 | 81 | 82 | .207 | .217 | 3.62 | 1.27 | 6.9 | 7.0 | 7.4 |
| December | 29.647 | 30.480 | 28.900 | 24.1 | 26.7 | 30.2 | 21.4 | 25.8 | 44 | 2 | 19 | 21 | 81 | 78 | .112 | .121 | 1.69 | .42 | 8.1 | 5.4 | 7.5 |
| Year | 29.848 | 30.786 | 28.867 | 40.2 | 42.4 | 49.5 | 35.4 | 42.4 | 86 | − 6 | 34 | 37 | 80 | 80 | .234 | .247 | 43.19 | 2.78 | 6.2 | 4.9 | 6.9 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

DUBUQUE, IOWA.

[H=698 ft.; $h_t$=100 ft.; $h_r$=95 ft.; $h_a$=115 ft.]

| Month. | Wind. | | | | | Number of winds, 8 a. m. and 8 p. m. | | | | | | | | | Number of days. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | By self register. | | | | | | | | | | | | | | | | | Precipitation. | | | | | Maximum temp. | | | Electricity. | |
| | Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Clear. | Partly cloudy. | Cloudy. | 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | 32° or below. | 90° or above. | Minimum temperature 32° or below. | Thunderstorms. | Auroras. |
| | *Miles* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 7.1 | S. | 31 | NW. | 0 | 2 | 4 | 1 | 13 | 15 | 3 | 7 | 14 | 3 | 5 | 5 | 21 | 11 | 6 | 7 | 0 | 4 | 17 | 0 | 27 | 1 | 0 |
| February | 7.3 | S. | 28 | NW. | 0 | 9 | 3 | 3 | 6 | 10 | 6 | 8 | 10 | 1 | 5 | 10 | 13 | 11 | 8 | 10 | 0 | 2 | 10 | 0 | 28 | 0 | 0 |
| March | 7.1 | NW. | 27 | NW. | 0 | 3 | 11 | 3 | 6 | 2 | 1 | 14 | 21 | 1 | 7 | 14 | 10 | 7 | 4 | 5 | 0 | 0 | 6 | 0 | 30 | 1 | 0 |
| April | 9.3 | NW. | 39 | NW. | 0 | 7 | 5 | 4 | 10 | 9 | 3 | 3 | 18 | 1 | 7 | 10 | 13 | 18 | 12 | 3 | 5 | 1 | 0 | 0 | 7 | 6 | 0 |
| May | 7.6 | S. | 30 | NW. | 0 | 6 | 7 | 7 | 11 | 11 | 3 | 6 | 11 | 0 | 12 | 12 | 7 | 10 | 6 | 1 | 0 | 0 | 0 | 0 | 3 | 6 | 0 |
| June | 5.1 | S. | 25 | NW. | 0 | 5 | 13 | 4 | 11 | 10 | 4 | 3 | 8 | 2 | 9 | 9 | 12 | 13 | 11 | 0 | 1 | 1 | 0 | 0 | 0 | 8 | 0 |
| July | 5.9 | NW. | 24 | NW. | 0 | 4 | 6 | 8 | 8 | 14 | 6 | 4 | 12 | 0 | 14 | 9 | 8 | 8 | 7 | 0 | 0 | 0 | 0 | 2 | 0 | 5 | 0 |
| August | 5.1 | S. | 22 | SW. | 0 | 4 | 5 | 5 | 11 | 16 | 6 | 6 | 5 | 4 | 15 | 8 | 8 | 8 | 6 | 0 | 0 | 1 | 0 | 7 | 0 | 8 | 0 |
| September | 5.1 | S. | 20 | N. | 0 | 4 | 4 | 0 | 10 | 15 | 5 | 1 | 18 | 3 | 15 | 6 | 9 | 9 | 6 | 0 | 0 | 3 | 0 | 0 | 0 | 4 | 0 |
| October | 6.4 | S. | 24 | NW. | 0 | 7 | 4 | 0 | 11 | 13 | 9 | 4 | 13 | 1 | 14 | 7 | 10 | 8 | 6 | 0 | 0 | 2 | 0 | 0 | 8 | 1 | 2 |
| November | 7.5 | S. | 22 | S. | 0 | 5 | 4 | 1 | 18 | 12 | 4 | 4 | 11 | 1 | 9 | 10 | 11 | 12 | 11 | 1 | 1 | 0 | 2 | 0 | 12 | 2 | 0 |
| December | 6.4 | W. | 22 | SW. | 0 | 5 | 4 | 3 | 8 | 5 | 5 | 19 | 12 | 1 | 8 | 7 | 16 | 17 | 11 | 14 | 0 | 0 | 25 | 0 | 27 | 0 | 0 |
| Year | 6.7 | NW. | 39 | NW. | 0 | 61 | 70 | 39 | 123 | 132 | 55 | 79 | 153 | 18 | 120 | 107 | 138 | 132 | 94 | 41 | 7 | 14 | 60 | 9 | 142 | 42 | 2 |

DULUTH, MINN.

[H=1,133 ft.; $h_t$=11 ft.; $h_r$=3 ft.; $h_a$=47 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 16.6 | W. | 71 | NW. | 10 | 1 | 8 | 4 | 1 | 4 | 9 | 19 | 16 | 0 | 7 | 12 | 12 | 11 | 7 | 9 | 0 | 3 | 23 | 0 | 31 | 1 | 1 |
| February | 13.2 | NW. | 60 | NE. | 5 | 3 | 12 | 6 | 2 | 0 | 5 | 10 | 18 | 0 | 4 | 16 | 8 | 11 | 5 | 11 | 0 | 1 | 26 | 0 | 28 | 0 | 0 |
| March | 12.3 | NW. | 49 | NW. | 2 | 6 | 15 | 0 | 5 | 3 | 2 | 16 | 14 | 1 | 11 | 9 | 11 | 9 | 7 | 9 | 0 | 1 | 17 | 0 | 31 | 0 | 0 |
| April | 14.8 | NE. | 60 | NE. | 5 | 4 | 25 | 1 | 1 | 1 | 4 | 14 | 10 | 0 | 6 | 11 | 13 | 13 | 10 | 11 | 0 | 5 | 6 | 0 | 27 | 1 | 0 |
| May | 15.7 | NE. | 51 | NE. | 4 | 1 | 38 | 2 | 0 | 0 | 5 | 8 | 8 | 0 | 9 | 11 | 11 | 9 | 6 | 1 | 0 | 7 | 1 | 0 | 6 | 0 | 1 |
| June | 12.3 | NE. | 37 | NE. | 0 | 3 | 26 | 1 | 2 | 1 | 11 | 8 | 7 | 1 | 11 | 9 | 10 | 7 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 2 | 0 |
| July | 10.2 | NE. | 41 | SW. | 3 | 4 | 22 | 4 | 0 | 2 | 12 | 11 | 7 | 0 | 15 | 7 | 9 | 11 | 10 | 0 | 0 | 4 | 0 | 0 | 0 | 9 | 2 |
| August | 10.7 | NE. | 43 | NW. | 3 | 1 | 29 | 0 | 1 | 2 | 8 | 10 | 11 | 0 | 10 | 9 | 12 | 10 | 8 | 0 | 0 | 7 | 0 | 0 | 0 | 5 | 1 |
| September | 11.7 | NE. | 54 | SW. | 2 | 6 | 18 | 1 | 1 | 1 | 11 | 11 | 9 | 2 | 14 | 6 | 10 | 8 | 4 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 |
| October | 12.7 | NE. | 58 | NW. | 5 | 11 | 12 | 3 | 5 | 4 | 5 | 11 | 11 | 0 | 7 | 9 | 15 | 9 | 5 | 4 | 0 | 3 | 1 | 0 | 11 | 0 | 1 |
| November | 13.4 | SW. | 52 | NE. | 4 | 6 | 13 | 0 | 4 | 3 | 14 | 7 | 13 | 0 | 5 | 6 | 19 | 10 | 5 | 6 | 0 | 5 | 8 | 0 | 19 | 0 | 0 |
| December | 14.8 | NW. | 45 | NE. | 4 | 2 | 11 | 1 | 0 | 1 | 11 | 13 | 23 | 0 | 5 | 11 | 15 | 11 | 7 | 8 | 0 | 4 | 26 | 0 | 28 | 0 | 0 |
| Year | 13.2 | NE. | 71 | NW. | 47 | 48 | 229 | 23 | 22 | 22 | 97 | 138 | 147 | 4 | 104 | 116 | 145 | 119 | 79 | 59 | 0 | 48 | 108 | 0 | 181 | 21 | 6 |

DURANGO, COLO.

[H=6,546 ft.; $h_t$=18 ft.; $h_r$=3 ft.; $h_a$=56 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 5.0 | NW. | 30 | W. | 0 | 8 | 1 | 2 | 3 | 10 | 4 | 8 | 26 | 0 | 9 | 11 | 11 | 11 | 9 | 11 | 0 | 1 | 6 | 0 | 30 | 0 | 0 |
| February | 5.3 | NW. | 28 | W. | 0 | 6 | 3 | 3 | 2 | 8 | 4 | 12 | 18 | 0 | 10 | 11 | 7 | 10 | 9 | 10 | 0 | 0 | 1 | 0 | 28 | 0 | 0 |
| March | 5.7 | NW. | 34 | W. | 0 | 5 | 7 | 1 | 3 | 9 | 4 | 12 | 21 | 0 | 10 | 16 | 5 | 7 | 6 | 7 | 0 | 0 | 2 | 0 | 30 | 0 | 0 |
| April | 7.3 | NW. | 36 | W. | 0 | 2 | 5 | 0 | 1 | 4 | 5 | 16 | 27 | 0 | 10 | 17 | 3 | 7 | 6 | 5 | 0 | 0 | 0 | 0 | 21 | 0 | 0 |
| May | 7.1 | NW. | 28 | S. | 0 | 4 | 4 | 1 | 2 | 2 | 2 | 7 | 40 | 0 | 7 | 20 | 4 | 6 | 4 | 0 | 1 | 0 | 0 | 0 | 10 | 3 | 0 |
| June | 6.3 | NW. | 29 | SW. | 0 | 6 | 1 | 0 | 0 | 2 | 2 | 16 | 33 | 0 | 17 | 13 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 |
| July | 5.6 | NW. | 28 | E. | 0 | 7 | 6 | 0 | 1 | 2 | 2 | 7 | 37 | 0 | 10 | 20 | 1 | 12 | 9 | 0 | 0 | 0 | 0 | 4 | 0 | 11 | 0 |
| August | 4.9 | NW. | 26 | SE. | 0 | 9 | 13 | 1 | 3 | 3 | 2 | 6 | 25 | 0 | 2 | 25 | 4 | 15 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 |
| September | 5.2 | NW. | 22 | N. | 0 | 3 | 4 | 1 | 1 | 3 | 5 | 13 | 30 | 0 | 13 | 13 | 4 | 8 | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 |
| October | 6.1 | NW. | 33 | S. | 0 | 6 | 3 | 1 | 1 | 5 | 4 | 7 | 35 | 0 | 18 | 10 | 3 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 15 | 5 | 0 |
| November | 5.3 | NW. | 27 | S. | 0 | 7 | 0 | 1 | 4 | 8 | 4 | 8 | 28 | 0 | 13 | 11 | 6 | 7 | 6 | 5 | 0 | 0 | 1 | 0 | 28 | 0 | 0 |
| December | 4.5 | NW. | 23 | W. | 0 | 12 | 4 | 1 | 4 | 13 | 2 | 7 | 17 | 2 | 15 | 7 | 9 | 13 | 12 | 12 | 0 | 0 | 23 | 0 | 31 | 0 | 0 |
| Year | 5.7 | NW. | 36 | W. | 0 | 75 | 51 | 12 | 25 | 69 | 40 | 119 | 337 | 2 | 134 | 174 | 57 | 104 | 86 | 50 | 1 | 1 | 33 | 7 | 194 | 38 | 0 |

EASTPORT, ME.

[H=76 ft.; $h_t$=67 ft.; $h_r$=62 ft.; $h_a$=85 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 15.5 | W. | 60 | S. | 3 | 7 | 8 | 4 | 3 | 6 | 11 | 13 | 10 | 0 | 7 | 6 | 18 | 16 | 14 | 9 | 2 | 0 | 19 | 0 | 28 | 1 | 0 |
| February | 16.1 | W. | 50 | NE. | 6 | 5 | 6 | 2 | 5 | 5 | 6 | 22 | 5 | 0 | 7 | 5 | 16 | 9 | 7 | 6 | 0 | 0 | 14 | 0 | 26 | 0 | 3 |
| March | 12.9 | W. | 43 | E. | 2 | 6 | 6 | 4 | 3 | 3 | 10 | 18 | 12 | 0 | 7 | 10 | 14 | 15 | 13 | 11 | 0 | 2 | 6 | 0 | 26 | 0 | 1 |
| April | 12.9 | S. | 42 | E. | 1 | 7 | 7 | 3 | 3 | 15 | 6 | 9 | 10 | 0 | 7 | 8 | 15 | 17 | 14 | 8 | 0 | 2 | 0 | 0 | 13 | 1 | 1 |
| May | 11.3 | S. | 42 | NE. | 2 | 3 | 14 | 8 | 0 | 9 | 9 | 7 | 10 | 2 | 3 | 13 | 15 | 13 | 5 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 1 |
| June | 8.4 | S. | 32 | SE. | 0 | 4 | 1 | 1 | 3 | 19 | 15 | 8 | 6 | 3 | 4 | 16 | 10 | 9 | 7 | 0 | 0 | 3 | 0 | 0 | 0 | 4 | 1 |
| July | 8.2 | S. | 30 | E. | 0 | 3 | 1 | 2 | 1 | 22 | 18 | 8 | 7 | 0 | 4 | 15 | 12 | 12 | 9 | 0 | 0 | 12 | 0 | 0 | 0 | 5 | 2 |
| August | 7.5 | S. | 38 | NE. | 0 | 3 | 5 | 1 | 0 | 19 | 14 | 4 | 14 | 2 | 7 | 13 | 11 | 10 | 7 | 0 | 0 | 9 | 0 | 0 | 0 | 3 | 1 |
| September | 10.0 | S. | 54 | NE. | 1 | 5 | 5 | 7 | 1 | 16 | 14 | 4 | 6 | 2 | 5 | 7 | 18 | 11 | 10 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 3 |
| October | 10.2 | W. | 36 | SE. | 0 | 5 | 3 | 1 | 5 | 3 | 16 | 17 | 12 | 0 | 7 | 10 | 14 | 9 | 6 | 1 | 1 | 1 | 0 | 0 | 4 | 0 | 1 |
| November | 14.2 | NW. | 70 | NE. | 3 | 13 | 4 | 1 | 4 | 9 | 13 | 7 | 9 | 0 | 6 | 7 | 17 | 13 | 8 | 1 | 0 | 0 | 2 | 0 | 9 | 1 | 0 |
| December | 14.8 | W. | 66 | E. | 3 | 8 | 3 | 3 | 1 | 0 | 4 | 26 | 17 | 0 | 5 | 7 | 19 | 10 | 8 | 6 | 0 | 0 | 20 | 0 | 24 | 0 | 0 |
| Year | 11.8 | W. | 70 | NE. | 21 | 69 | 63 | 37 | 29 | 126 | 136 | 143 | 118 | 9 | 69 | 117 | 179 | 144 | 108 | 42 | 3 | 41 | 61 | 0 | 130 | 15 | 14 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

ELKINS, W. VA.

[$\phi$=38° 53′ N.; $\lambda$=79° 49′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 28.057 | 28.346 | 27.140 | 31.4 | 35.5 | 45.6 | 26.1 | 35.8 | 70 | 6 | 28 | 31 | 88 | 83 | 0.168 | 0.183 | 2.98 | 1.03 | 7.7 | 6.5 | 7.1 |
| February | 27.906 | 28.437 | 27.391 | 33.7 | 39.4 | 49.4 | 28.3 | 38.8 | 71 | 9 | 29 | 32 | 84 | 74 | .175 | .188 | 3.20 | .61 | 6.7 | 6.1 | 6.4 |
| March | 27.834 | 28.279 | 27.241 | 32.1 | 38.7 | 46.8 | 27.9 | 37.4 | 75 | 15 | 29 | 30 | 87 | 71 | .163 | .166 | 3.28 | .62 | 7.1 | 5.6 | 6.5 |
| April | 27.994 | 28.475 | 27.609 | 45.5 | 52.2 | 61.5 | 38.2 | 49.8 | 83 | 14 | 37 | 39 | 75 | 63 | .235 | .254 | 5.39 | 1.25 | 5.6 | 5.5 | 5.4 |
| May | 27.933 | 28.239 | 27.618 | 53.2 | 60.6 | 71.5 | 45.4 | 58.4 | 85 | 29 | 46 | 47 | 77 | 63 | .317 | .332 | 2.96 | .65 | 4.4 | 5.2 | 4.8 |
| June | 28.013 | 28.245 | 27.705 | 63.9 | 69.6 | 79.8 | 58.4 | 69.1 | 91 | 40 | 60 | 62 | 87 | 78 | .524 | .564 | 7.78 | 1.27 | 6.0 | 6.7 | 6.1 |
| July | 28.008 | 28.301 | 27.756 | 61.6 | 70.0 | 79.6 | 55.9 | 67.8 | 86 | 44 | 58 | 60 | 87 | 71 | .487 | .521 | 4.85 | 1.79 | 5.2 | 5.2 | 5.2 |
| August | 28.048 | 28.331 | 27.658 | 61.1 | 68.1 | 80.6 | 56.9 | 68.8 | 88 | 47 | 58 | 62 | 90 | 80 | .487 | .557 | 3.20 | 1.40 | 4.2 | 4.5 | 4.9 |
| September | 28.101 | 28.293 | 27.883 | 58.5 | 66.0 | 74.0 | 48.9 | 61.4 | 85 | 32 | 51 | 54 | 91 | 82 | .386 | .437 | 4.30 | 1.71 | 4.2 | 4.5 | 5.5 |
| October | 28.073 | 28.442 | 27.641 | 38.4 | 45.7 | 60.5 | 34.6 | 47.6 | 81 | 22 | 35 | 38 | 87 | 76 | .208 | .241 | 4.58 | 1.86 | 4.7 | 2.4 | 4.9 |
| November | 28.155 | 28.479 | 27.612 | 38.4 | 46.1 | 59.6 | 35.1 | 47.4 | 72 | 20 | 34 | 37 | 86 | 72 | .207 | .236 | 2.31 | .96 | 4.6 | 3.9 | 5.5 |
| December | 27.915 | 28.253 | 27.335 | 22.8 | 25.4 | 35.3 | 17.9 | 26.6 | 71 | −2 | 21 | 23 | 91 | 90 | .117 | .129 | 2.02 | .64 | 8.9 | 4.9 | 7.9 |
| Year | 28.003 | 28.479 | 27.140 | 44.6 | 50.9 | 62.0 | 39.5 | 50.7 | 91 | −2 | 40 | 43 | 86 | 75 | .290 | .317 | 46.85 | 1.86 | 5.8 | 5.1 | 5.8 |

EL PASO, TEX.

[$\phi$=31° 47′ N.; $\lambda$=106° 30′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 26.239 | 26.522 | 26.035 | 41.4 | 59.6 | 63.9 | 37.4 | 50.6 | 76 | 26 | 25 | 24 | 52 | 26 | 0.134 | 0.129 | 0.04 | 0.04 | 2.9 | 3.5 | 3.9 |
| February | 26.179 | 26.543 | 25.716 | 37.8 | 57.4 | 61.4 | 34.2 | 47.8 | 70 | 22 | 21 | 16 | 52 | 22 | .116 | .094 | .16 | .12 | 1.7 | 3.5 | 3.1 |
| March | 26.104 | 26.449 | 25.768 | 43.0 | 60.9 | 64.9 | 39.9 | 52.4 | 76 | 23 | 24 | 18 | 48 | 22 | .127 | .101 | .77 | .52 | 2.9 | 3.9 | 3.7 |
| April | 26.119 | 26.544 | 25.862 | 51.2 | 74.1 | 76.1 | 49.7 | 62.9 | 86 | 35 | 20 | 10 | 30 | 9 | .107 | .067 | .00 | .00 | 0.6 | 1.4 | 1.4 |
| May | 26.060 | 26.227 | 25.872 | 57.2 | 79.7 | 81.8 | 56.2 | 69.0 | 90 | 45 | 22 | 14 | 26 | 9 | .120 | .081 | T. | T. | 1.4 | 2.2 | 1.7 |
| June | 26.106 | 26.237 | 25.924 | 69.3 | 91.1 | 94.1 | 67.9 | 81.0 | 98 | 55 | 44 | 31 | 44 | 14 | .322 | .201 | .05 | .04 | 1.5 | 3.1 | 2.2 |
| July | 26.145 | 26.293 | 25.974 | 71.8 | 88.3 | 92.8 | 70.8 | 81.8 | 105 | 66 | 58 | 51 | 63 | 32 | .479 | .391 | 1.62 | .95 | 2.6 | 5.4 | 4.0 |
| August | 26.183 | 26.309 | 26.058 | 70.2 | 86.7 | 90.6 | 69.1 | 79.8 | 95 | 62 | 56 | 50 | 63 | 31 | .460 | .374 | .51 | .16 | 1.9 | 4.3 | 3.9 |
| September | 26.223 | 26.477 | 25.931 | 62.7 | 80.4 | 84.5 | 61.4 | 73.0 | 94 | 50 | 44 | 41 | 54 | 28 | .317 | .282 | .60 | .35 | 1.6 | 2.8 | 2.2 |
| October | 26.232 | 26.519 | 25.976 | 51.9 | 75.0 | 79.0 | 49.7 | 64.4 | 89 | 38 | 32 | 26 | 48 | 18 | .186 | .149 | .02 | .02 | 0.1 | 0.7 | 0.7 |
| November | 26.223 | 26.511 | 25.954 | 45.1 | 65.1 | 69.6 | 42.7 | 56.2 | 81 | 25 | 25 | 24 | 47 | 22 | .138 | .133 | T. | T. | 1.2 | 1.7 | 2.0 |
| December | 26.199 | 26.539 | 25.866 | 33.0 | 47.0 | 50.9 | 23.9 | 40.4 | 69 | 10 | 20 | 19 | 59 | 39 | .109 | .114 | .56 | .41 | 2.8 | 4.2 | 4.3 |
| Year | 26.168 | 26.544 | 25.716 | 52.9 | 72.1 | 75.8 | 50.7 | 63.3 | 105 | 10 | 33 | 27 | 49 | 23 | .218 | .176 | 4.33 | .95 | 1.8 | 3.1 | 2. |

ERIE, PA.

[$\phi$=42° 7′ N.; $\lambda$=80° 5′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.325 | 29.810 | 28.442 | 30.9 | 32.0 | 37.9 | 25.6 | 31.8 | 65 | 6 | 25 | 25 | 78 | 75 | 0.150 | 0.148 | 2.44 | 0.96 | 9.8 | 7.9 | 8.3 |
| February | 29.128 | 29.773 | 28.541 | 28.8 | 31.6 | 38.0 | 24.3 | 31.2 | 61 | 8 | 25 | 26 | 84 | 78 | .135 | .145 | 4.85 | 1.57 | 8.9 | 7.5 | 8.1 |
| March | 29.101 | 29.669 | 28.440 | 30.0 | 32.3 | 37.5 | 26.4 | 32.0 | 63 | 17 | 25 | 25 | 81 | 74 | .136 | .139 | 2.54 | .92 | 7.6 | 6.4 | 6.8 |
| April | 29.224 | 29.803 | 28.642 | 42.6 | 44.9 | 53.8 | 36.0 | 44.9 | 77 | 17 | 33 | 34 | 70 | 66 | .201 | .205 | 5.15 | 2.40 | 7.2 | 7.3 | 6.5 |
| May | 29.156 | 29.516 | 28.807 | 54.2 | 56.0 | 62.1 | 47.3 | 54.7 | 83 | 30 | 44 | 45 | 70 | 69 | .303 | .314 | 2.36 | .91 | 5.3 | 6.1 | 5.4 |
| June | 29.230 | 29.456 | 28.896 | 65.0 | 67.0 | 72.6 | 59.9 | 66.2 | 85 | 47 | 56 | 57 | 74 | 72 | .469 | .486 | 2.58 | .79 | 6.7 | 6.2 | 6.3 |
| July | 29.200 | 29.566 | 28.840 | 68.5 | 70.7 | 76.4 | 62.0 | 69.2 | 89 | 52 | 56 | 58 | 66 | 66 | .467 | .497 | 2.46 | .76 | 4.8 | 4.9 | 5.3 |
| August | 29.264 | 29.600 | 28.877 | 68.4 | 71.5 | 75.8 | 62.6 | 69.2 | 85 | 49 | 57 | 59 | 67 | 66 | .472 | .513 | 1.76 | .90 | 4.8 | 3.9 | 4.5 |
| September | 29.332 | 29.556 | 29.026 | 59.9 | 62.9 | 69.2 | 55.6 | 62.4 | 83 | 46 | 51 | 54 | 72 | 74 | .384 | .434 | 3.70 | 1.58 | 5.5 | 4.9 | 5.5 |
| October | 29.300 | 29.787 | 28.775 | 46.4 | 49.8 | 54.8 | 42.6 | 48.7 | 79 | 32 | 37 | 38 | 70 | 64 | .226 | .236 | 1.59 | .44 | 7.0 | 6.1 | 6.8 |
| November | 29.385 | 29.821 | 28.612 | 44.1 | 47.2 | 54.4 | 39.3 | 46.8 | 72 | 24 | 36 | 38 | 75 | 72 | .230 | .241 | 2.60 | .67 | 6.7 | 5.9 | 6.3 |
| December | 29.162 | 29.619 | 28.577 | 24.6 | 26.7 | 30.7 | 21.6 | 26.2 | 61 | 9 | 19 | 22 | 79 | 80 | .105 | .119 | 1.85 | .40 | 8.9 | 8.1 | 8.6 |
| Year | 29.234 | 29.821 | 28.440 | 47.0 | 49.4 | 55.3 | 41.9 | 48.6 | 89 | 6 | 39 | 40 | 74 | 71 | .273 | .290 | 33.88 | 2.40 | 6.9 | 6.3 | 6.5 |

ESCANABA, MICH.

[$\phi$=45° 48′ N.; $\lambda$=87° 05′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.425 | 30.009 | 28.836 | 15.7 | 20.7 | 25.8 | 11.5 | 18.6 | 43 | −17 | 11 | 14 | 80 | 76 | 0.084 | 0.095 | 0.74 | 0.27 | 6.5 | 6.1 | 6.7 |
| February | 29.250 | 29.815 | 28.409 | 17.1 | 21.1 | 26.7 | 12.5 | 19.6 | 38 | 0 | 12 | 15 | 80 | 74 | .081 | .088 | 3.01 | 1.51 | 8.1 | 7.4 | 7.4 |
| March | 29.262 | 29.767 | 28.592 | 22.1 | 28.8 | 34.8 | 18.9 | 26.8 | 45 | 3 | 19 | 23 | 86 | 77 | .104 | .122 | 1.70 | .88 | 6.8 | 5.5 | 6.8 |
| April | 29.295 | 29.713 | 28.523 | 31.6 | 34.9 | 40.1 | 27.5 | 33.8 | 50 | 12 | 26 | 27 | 80 | 74 | .141 | .150 | 4.81 | 1.85 | 5.8 | 6.4 | 6.9 |
| May | 29.253 | 29.565 | 28.704 | 45.1 | 51.4 | 57.5 | 40.1 | 48.8 | 77 | 23 | 37 | 37 | 75 | 60 | .230 | .229 | 1.34 | 1.03 | 5.7 | 5.1 | 6.3 |
| June | 29.347 | 29.685 | 29.075 | 58.5 | 64.3 | 70.2 | 52.1 | 61.2 | 86 | 38 | 50 | 51 | 75 | 65 | .376 | .391 | 2.44 | .79 | 4.3 | 4.6 | 4.0 |
| July | 29.302 | 29.689 | 28.786 | 63.4 | 68.3 | 73.7 | 56.5 | 65.1 | 87 | 46 | 55 | 56 | 76 | 68 | .444 | .467 | 6.19 | 1.58 | 3.2 | 4.1 | 4.1 |
| August | 29.377 | 29.680 | 29.068 | 63.8 | 69.1 | 74.4 | 59.0 | 66.7 | 85 | 40 | 58 | 59 | 83 | 71 | .498 | .515 | 1.48 | .59 | 6.0 | 5.2 | 6.2 |
| September | 29.441 | 30.004 | 28.883 | 51.2 | 57.2 | 63.6 | 46.5 | 55.0 | 75 | 34 | 47 | 49 | 87 | 74 | .342 | .356 | 1.48 | .68 | 5.3 | 4.5 | 5.6 |
| October | 29.347 | 29.964 | 28.470 | 39.7 | 45.1 | 50.5 | 36.6 | 43.6 | 66 | 29 | 36 | 38 | 84 | 74 | .217 | .240 | 1.40 | .88 | 6.1 | 4.5 | 6.5 |
| November | 29.422 | 30.017 | 28.748 | 35.4 | 39.7 | 44.4 | 32.2 | 38.3 | 58 | 16 | 32 | 33 | 86 | 78 | .187 | .200 | 3.49 | 1.46 | 7.5 | 6.6 | 7.8 |
| December | 29.255 | 29.828 | 28.691 | 18.4 | 22.2 | 26.2 | 14.9 | 20.6 | 47 | 2 | 15 | 18 | 84 | 80 | .094 | .102 | 3.57 | 1.47 | 7.0 | 6.8 | 7.5 |
| Year | 29.331 | 30.017 | 28.469 | 38.5 | 43.6 | 49.0 | 34.0 | 41.5 | 87 | −17 | 33 | 35 | 81 | 73 | .233 | .246 | 31.65 | 1.85 | 6.0 | 5.6 | 6.3 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

ELKINS, W. VA.

[H=1,940 ft.; $h_t$=41 ft.; $h_r$=34 ft.; $h_a$=50 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.01 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | 32° or Minimum temperature below. | Electricity Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 4.2 | W. | 34 | W. | 0 | 10 | 2 | 1 | 4 | 9 | 5 | 19 | 7 | 5 | 7 | 6 | 18 | 16 | 15 | 7 | 0 | 2 | 5 | 0 | 22 | 0 | 0 |
| February | 6.5 | W. | 30 | NW. | 0 | 2 | 1 | 0 | 3 | 9 | 13 | 20 | 6 | 2 | 8 | 7 | 13 | 20 | 15 | 11 | 1 | 3 | 3 | 0 | 20 | 2 | 0 |
| March | 5.4 | W. | 37 | W. | 0 | 6 | 1 | 0 | 4 | 6 | 7 | 26 | 10 | 2 | 8 | 6 | 17 | 20 | 18 | 11 | 0 | 2 | 2 | 0 | 23 | 0 | 0 |
| April | 4.8 | W. | 30 | W. | 0 | 12 | 2 | 1 | 2 | 10 | 6 | 14 | 8 | 5 | 9 | 12 | 9 | 18 | 16 | 5 | 1 | 1 | 1 | 0 | 8 | 5 | 0 |
| May | 4.4 | W. | 29 | W. | 0 | 19 | 2 | 2 | 5 | 6 | 4 | 16 | 6 | 2 | 13 | 9 | 9 | 12 | 9 | 1 | 1 | 8 | 0 | 0 | 3 | 2 | 0 |
| June | 2.6 | N. | 23 | W. | 0 | 12 | 4 | 1 | 4 | 9 | 5 | 9 | 12 | 4 | 5 | 12 | 13 | 20 | 15 | 0 | 0 | 6 | 0 | 1 | 0 | 14 | 0 |
| July | 2.8 | W. | 17 | W. | 0 | 10 | 4 | 0 | 4 | 10 | 7 | 10 | 13 | 4 | 10 | 13 | 8 | 14 | 12 | 0 | 0 | 11 | 0 | 0 | 0 | 8 | 0 |
| August | 2.3 | N. | 14 | N. | 0 | 17 | 3 | 6 | 9 | 2 | 4 | 9 | 4 | 8 | 14 | 8 | 9 | 13 | 9 | 0 | 0 | 18 | 0 | 0 | 0 | 8 | 0 |
| September | 2.7 | N. | 15 | SE. | 0 | 17 | 0 | 5 | 5 | 8 | 4 | 7 | 5 | 9 | 8 | 13 | 9 | 8 | 7 | 0 | 0 | 14 | 0 | 0 | 1 | 1 | 0 |
| October | 3.3 | W. | 17 | W. | 0 | 8 | 2 | 0 | 3 | 7 | 7 | 18 | 2 | 15 | 15 | 6 | 10 | 9 | 7 | 3 | 0 | 9 | 0 | 0 | 9 | 3 | 0 |
| November | 3.8 | W. | 24 | W. | 0 | 10 | 1 | 0 | 2 | 14 | 5 | 10 | 6 | 12 | 11 | 8 | 11 | 12 | 9 | 2 | 1 | 9 | 2 | 0 | 13 | 1 | 0 |
| December | 4.9 | W. | 28 | W. | 0 | 5 | 0 | 0 | 2 | 6 | 9 | 30 | 5 | 5 | 3 | 8 | 20 | 16 | 9 | 11 | 0 | 1 | 15 | 0 | 29 | 0 | 0 |
| Year | 4.0 | W. | 37 | W. | 0 | 128 | 22 | 16 | 47 | 96 | 76 | 188 | 84 | 73 | 111 | 108 | 146 | 178 | 141 | 51 | 4 | 84 | 28 | 1 | 128 | 44 | 0 |

EL PASO, TEX.

[H=3,762 ft.; $h_t$=110 ft.; $h_r$=102 ft.; $h_a$=133 ft.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 10.2 | W. | 43 | W. | 2 | 0 | 4 | 6 | 8 | 1 | 3 | 20 | 19 | 1 | 13 | 14 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 |
| Feburary | 13.2 | W. | 58 | W. | 6 | 1 | 4 | 2 | 6 | 1 | 3 | 24 | 15 | 0 | 15 | 11 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 11 | 2 | 0 |
| March | 14.2 | W. | 60 | W. | 8 | 0 | 9 | 3 | 4 | 0 | 7 | 20 | 18 | 1 | 16 | 12 | 3 | 4 | 4 | 2 | 0 | 0 | 0 | 0 | 4 | 0 | 0 |
| April | 15.0 | W. | 60 | W. | 9 | 0 | 2 | 7 | 2 | 1 | 11 | 22 | 14 | 1 | 24 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 14.6 | W. | 50 | W. | 7 | 3 | 1 | 7 | 4 | 2 | 5 | 28 | 12 | 0 | 25 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| June | 10.4 | SE. | 54 | NE. | 3 | 1 | 11 | 13 | 13 | 0 | 7 | 4 | 11 | 0 | 22 | 8 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 29 | 0 | 6 | 0 |
| July | 10.8 | E. | 67 | NW. | 6 | 0 | 11 | 15 | 15 | 2 | 1 | 7 | 11 | 0 | 12 | 17 | 2 | 9 | 7 | 0 | 0 | 0 | 0 | 24 | 0 | 9 | 0 |
| August | 10.5 | E. | 40 | NE. | 1 | 0 | 15 | 20 | 14 | 1 | 1 | 5 | 6 | 0 | 12 | 16 | 3 | 7 | 5 | 0 | 0 | 0 | 0 | 20 | 0 | 8 | 0 |
| September | 10.6 | E. | 38 | W. | 0 | 1 | 18 | 16 | 15 | 0 | 2 | 6 | 2 | 0 | 20 | 9 | 1 | 4 | 4 | 0 | 0 | 0 | 0 | 5 | 0 | 3 | 0 |
| October | 9.2 | E. | 54 | NE. | 3 | 0 | 10 | 10 | 14 | 0 | 5 | 13 | 10 | 0 | 29 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| November | 10.4 | NW. | 43 | SW. | 1 | 3 | 9 | 5 | 5 | 2 | 4 | 14 | 18 | 0 | 21 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 |
| December | 11.8 | NW. | 49 | NW. | 3 | 1 | 14 | 5 | 3 | 0 | 1 | 17 | 21 | 0 | 13 | 13 | 5 | 3 | 3 | 2 | 0 | 0 | 3 | 0 | 20 | 0 | 0 |
| Year | 11.7 | W. | 67 | NW. | 49 | 10 | 108 | 109 | 103 | 10 | 50 | 180 | 157 | 3 | 222 | 122 | 21 | 33 | 27 | 5 | 0 | 0 | 3 | 79 | 46 | 30 | 0 |

ERIE, PA.

[H=714 ft.; $h_t$=92 ft.; $h_r$=82 ft.; $h_a$=102 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 13.2 | S. | 36 | NW. | 0 | 6 | 3 | 4 | 4 | 16 | 14 | 9 | 6 | 0 | 3 | 4 | 24 | 16 | 10 | 10 | 0 | 1 | 11 | 0 | 22 | 1 | 0 |
| February | 14.3 | SW. | 44 | S. | 3 | 1 | 6 | 6 | 2 | 13 | 14 | 11 | 3 | 0 | 3 | 5 | 20 | 19 | 15 | 13 | 0 | 1 | 10 | 0 | 25 | 0 | 0 |
| March | 12.0 | W. | 36 | SW. | 0 | 2 | 7 | 6 | 2 | 10 | 8 | 20 | 7 | 0 | 7 | 8 | 16 | 15 | 9 | 9 | 0 | 0 | 8 | 0 | 28 | 0 | 0 |
| April | 13.6 | S. | 45 | SE. | 4 | 5 | 6 | 7 | 0 | 19 | 9 | 10 | 4 | 0 | 8 | 5 | 17 | 13 | 12 | 4 | 2 | 0 | 1 | 0 | 6 | 6 | 0 |
| May | 10.1 | W. | 33 | SW. | 0 | 1 | 9 | 9 | 3 | 9 | 11 | 17 | 3 | 0 | 10 | 11 | 10 | 15 | 11 | 2 | 0 | 1 | 0 | 0 | 2 | 6 | 0 |
| June | 7.6 | W. | 24 | W. | 0 | 3 | 13 | 6 | 0 | 10 | 17 | 10 | 0 | 1 | 7 | 8 | 15 | 14 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| July | 9.3 | W. | 31 | W. | 0 | 6 | 3 | 6 | 1 | 14 | 7 | 19 | 5 | 1 | 11 | 14 | 6 | 9 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| August | 8.3 | S. | 30 | NW. | 0 | 5 | 13 | 5 | 5 | 14 | 10 | 5 | 5 | 0 | 12 | 13 | 6 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| September | 10.3 | S. | 35 | S. | 0 | 6 | 5 | 7 | 4 | 19 | 5 | 7 | 7 | 0 | 10 | 10 | 10 | 9 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 |
| October | 11.5 | SW. | 30 | SW. | 0 | 5 | 0 | 7 | 5 | 17 | 10 | 7 | 11 | 0 | 6 | 7 | 18 | 14 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| November | 13.8 | S. | 41 | NW. | 1 | 5 | 6 | 8 | 3 | 17 | 13 | 2 | 6 | 0 | 7 | 11 | 12 | 14 | 8 | 2 | 0 | 0 | 0 | 0 | 7 | 0 | 0 |
| December | 14.5 | SW. | 55 | SE. | 2 | 2 | 1 | 6 | 7 | 10 | 24 | 9 | 3 | 0 | 3 | 2 | 26 | 21 | 15 | 20 | 0 | 0 | 21 | 0 | 28 | 0 | 1 |
| Year | 11.5 | S. | 55 | SE. | 10 | 47 | 72 | 77 | 36 | 168 | 142 | 126 | 60 | 2 | 87 | 98 | 180 | 167 | 124 | 60 | 4 | 3 | 51 | 0 | 118 | 31 | 2 |

ESCANABA, MICH.

[H=612 ft.; $h_t$=40 ft.; $h_r$=33 ft.; $h_a$=82 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 11.1 | SW. | 40 | N. | 1 | 6 | 9 | 3 | 2 | 7 | 15 | 8 | 12 | 0 | 8 | 5 | 18 | 12 | 7 | 8 | 0 | 4 | 19 | 0 | 28 | 0 | 0 |
| February | 9.9 | N. | 36 | E. | 0 | 13 | 10 | 5 | 0 | 4 | 11 | 5 | 8 | 0 | 3 | 7 | 18 | 11 | 6 | 11 | 0 | 2 | 19 | 0 | 28 | 0 | 0 |
| March | 9.3 | NW. | 34 | NW. | 0 | 12 | 8 | 3 | 1 | 8 | 5 | 7 | 18 | 0 | 6 | 10 | 15 | 14 | 9 | 14 | 0 | 0 | 7 | 0 | 31 | 0 | 0 |
| April | 10.9 | S. | 45 | E. | 2 | 11 | 12 | 5 | 2 | 16 | 4 | 3 | 7 | 0 | 5 | 9 | 16 | 19 | 14 | 11 | 0 | 2 | 2 | 0 | 25 | 2 | 1 |
| May | 10.2 | NE. | 34 | E. | 0 | 10 | 15 | 11 | 0 | 12 | 2 | 6 | 6 | 0 | 7 | 9 | 15 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 1 |
| June | 8.8 | S. | 25 | SW. | 0 | 5 | 21 | 1 | 1 | 14 | 5 | 8 | 5 | 0 | 15 | 10 | 5 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 |
| July | 8.8 | S. | 34 | W. | 0 | 11 | 11 | 3 | 2 | 11 | 7 | 9 | 8 | 0 | 14 | 10 | 7 | 12 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 |
| August | 8.8 | S. | 32 | N. | 0 | 10 | 11 | 3 | 7 | 12 | 8 | 5 | 6 | 0 | 6 | 11 | 14 | 12 | 9 | 0 | 0 | 1 | 0 | 0 | 0 | 5 | 0 |
| September | 8.8 | S. | 28 | NW. | 0 | 6 | 11 | 3 | 1 | 14 | 7 | 7 | 11 | 0 | 10 | 6 | 14 | 10 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| October | 10.1 | S. | 36 | NW. | 0 | 7 | 2 | 3 | 2 | 13 | 13 | 11 | 11 | 0 | 5 | 10 | 16 | 11 | 5 | 1 | 0 | 4 | 0 | 0 | 12 | 1 | 3 |
| November | 11.2 | S. | 35 | NE. | 0 | 6 | 9 | 2 | 1 | 18 | 6 | 9 | 9 | 0 | 3 | 7 | 20 | 11 | 10 | 4 | 0 | 2 | 4 | 0 | 15 | 3 | 1 |
| December | 10.3 | W. | 36 | SW. | 0 | 5 | 7 | 4 | 1 | 2 | 7 | 18 | 18 | 0 | 4 | 7 | 20 | 14 | 10 | 13 | 0 | 1 | 26 | 0 | 27 | 0 | 0 |
| Year | 9.8 | S. | 45 | E. | 3 | 102 | 126 | 46 | 20 | 131 | 90 | 96 | 119 | 0 | 86 | 101 | 178 | 138 | 98 | 62 | 0 | 16 | 77 | 0 | 172 | 27 | 8 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

EUREKA, CAL.

[$\phi$=40° 48′ N.; $\lambda$=124° 11′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.808 | 30.286 | 29.270 | 48.1 | 51.3 | 54.5 | 44.0 | 49.2 | 62 | 29 | 43 | 44 | 84 | 78 | 0.290 | 0.300 | 14.41 | 1.71 | 7.1 | 8.7 | 7.3 |
| February | 29.963 | 30.251 | 29.408 | 46.1 | 49.7 | 52.6 | 43.1 | 47.8 | 62 | 34 | 42 | 44 | 85 | 82 | .267 | .293 | 11.54 | 1.65 | 8.4 | 9.0 | 7.7 |
| March | 29.996 | 30.332 | 29.449 | 43.9 | 50.2 | 53.1 | 41.6 | 47.4 | 61 | 36 | 39 | 42 | 82 | 75 | .238 | .270 | 2.72 | .63 | 6.8 | 6.1 | 5.8 |
| April | 30.122 | 30.340 | 29.856 | 44.7 | 51.0 | 53.1 | 43.5 | 48.3 | 68 | 38 | 40 | 43 | 85 | 74 | .251 | .275 | .24 | .24 | 6.3 | 1.8 | 3.2 |
| May | 30.035 | 30.246 | 29.847 | 46.2 | 51.6 | 53.9 | 45.2 | 49.6 | 63 | 39 | 43 | 45 | 90 | 78 | .281 | .299 | .76 | .40 | 6.5 | 2.6 | 4.5 |
| June | 30.014 | 30.145 | 29.808 | 49.4 | 55.1 | 57.3 | 48.6 | 53.0 | 66 | 44 | 47 | 50 | 92 | 83 | .320 | .359 | .14 | .12 | 6.4 | 3.4 | 5.3 |
| July | 30.030 | 30.147 | 29.855 | 53.1 | 57.3 | 59.0 | 52.3 | 55.6 | 63 | 49 | 50 | 52 | 92 | 83 | .367 | .392 | .35 | .45 | 7.7 | 3.8 | 6.0 |
| August | 29.961 | 30.091 | 29.727 | 51.7 | 56.6 | 59.0 | 50.6 | 54.8 | 69 | 46 | 49 | 52 | 92 | 85 | .351 | .389 | T. | T. | 6.5 | 5.0 | 5.8 |
| September | 29.973 | 30.138 | 29.748 | 50.1 | 55.1 | 58.6 | 48.6 | 53.6 | 74 | 44 | 48 | 51 | 94 | 86 | .339 | .370 | .61 | .31 | 2.1 | 4.1 | 5.3 |
| October | 30.006 | 30.198 | 29.700 | 50.1 | 56.2 | 59.5 | 48.0 | 53.8 | 77 | 39 | 46 | 50 | 88 | 80 | .318 | .356 | 3.78 | 1.19 | 4.3 | 6.4 | 6.4 |
| November | 30.032 | 30.383 | 29.774 | 49.2 | 54.6 | 57.5 | 46.5 | 52.0 | 66 | 34 | 45 | 48 | 87 | 81 | .312 | .347 | 12.60 | 4.02 | 5.9 | 7.5 | 7.7 |
| December | 29.959 | 30.240 | 29.338 | 43.6 | 49.7 | 53.1 | 39.5 | 46.3 | 66 | 32 | 38 | 42 | 81 | 77 | .231 | .274 | 4.29 | 1.20 | 6.2 | 5.1 | 5.4 |
| Year | 29.992 | 30.383 | 29.270 | 48.0 | 53.2 | 55.9 | 46.0 | 51.0 | 77 | 29 | 44 | 47 | 88 | 80 | .297 | .327 | 51.64 | 4.02 | 6.2 | 5.3 | 5.9 |

EVANSVILLE, IND.

[$\phi$=37° 58′ N.; $\lambda$=87° 33′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.694 | 30.047 | 28.806 | 33.6 | ..... | 42.6 | 28.9 | 35.8 | 70 | 2 | 29 | .... | 81 | .... | 0.182 | ..... | 2.84 | 0.69 | 8.5 | ..... | 8.2 |
| February | 29.494 | 30.191 | 28.913 | 36.7 | ..... | 49.8 | 33.0 | 41.4 | 64 | 12 | 31 | .... | 80 | .... | .189 | ..... | 7.04 | 1.95 | 6.2 | ..... | 6.0 |
| March | 29.477 | 29.940 | 29.049 | 39.9 | ..... | 52.8 | 37.1 | 45.0 | 65 | 23 | 32 | .... | 74 | .... | .192 | ..... | 3.58 | 2.46 | 6.2 | ..... | 6.0 |
| April | 29.537 | 29.931 | 29.078 | 50.5 | ..... | 64.8 | 46.0 | 55.4 | 80 | 29 | 40 | .... | 69 | .... | .276 | ..... | 5.21 | 2.24 | 5.0 | ..... | 5.2 |
| May | 29.436 | 29.732 | 29.244 | 59.6 | ..... | 72.7 | 55.6 | 64.2 | 87 | 37 | 51 | .... | 75 | .... | .397 | ..... | 2.47 | .86 | 6.5 | ..... | 5.6 |
| June | 29.509 | 29.762 | 29.273 | 70.9 | ..... | 85.0 | 67.4 | 76.2 | 94 | 58 | 65 | .... | 83 | .... | .632 | ..... | 3.21 | 1.29 | 6.0 | ..... | 5.5 |
| July | 29.496 | 29.852 | 29.323 | 72.7 | ..... | 84.8 | 68.0 | 76.4 | 95 | 59 | 65 | .... | 78 | .... | .640 | ..... | 5.73 | 2.10 | 4.7 | ..... | 5.1 |
| August | 29.544 | 29.799 | 29.299 | 73.1 | ..... | 90.2 | 70.3 | 80.2 | 99 | 58 | 66 | .... | 78 | .... | .644 | ..... | .41 | .23 | 2.5 | ..... | 3.2 |
| September | 29.623 | 29.928 | 29.042 | 61.7 | ..... | 78.9 | 59.4 | 69.2 | 90 | 42 | 55 | .... | 78 | .... | .451 | ..... | 2.30 | 1.43 | 4.5 | ..... | 3.8 |
| October | 29.632 | 30.008 | 29.236 | 48.2 | ..... | 66.8 | 46.7 | 56.8 | 89 | 32 | 41 | .... | 76 | .... | .266 | ..... | 2.04 | .83 | 3.4 | ..... | 3.8 |
| November | 29.685 | 30.011 | 29.200 | 49.6 | ..... | 64.2 | 46.8 | 55.5 | 77 | 26 | 42 | .... | 77 | .... | .292 | ..... | 2.86 | .70 | 5.9 | ..... | 5.5 |
| December | 29.596 | 30.075 | 29.135 | 26.0 | ..... | 36.1 | 22.3 | 29.2 | 69 | 1 | 22 | .... | 86 | .... | .136 | ..... | 3.48 | 1.14 | 7.0 | ..... | 6.6 |
| Year | 29.560 | 30.191 | 28.806 | 51.9 | ..... | 65.7 | 48.5 | 57.1 | 99 | 1 | 45 | .... | 78 | .... | .358 | ..... | 41.17 | 2.46 | 5.5 | ..... | 5.4 |

FLAGSTAFF, ARIZ.

[$\phi$=35° 12′ N.; $\lambda$=111° 37′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 23.333 | 23.504 | 22.984 | 26.8 | 35.7 | 43.8 | 22.2 | 33.0 | 56 | 6 | 22 | 26 | 82 | 69 | 0.119 | 0.144 | 3.10 | 1.81 | 5.3 | 6.3 | 6.5 |
| February | 23.277 | 23.611 | 22.805 | 19.7 | 34.9 | 40.7 | 14.2 | 27.4 | 51 | − 4 | 16 | 22 | 85 | 58 | .092 | .115 | 2.88 | 1.01 | 3.6 | 6.3 | 5.6 |
| March | 23.220 | 23.458 | 22.929 | 25.5 | 39.5 | 43.8 | 20.8 | 32.3 | 54 | 2 | 20 | 22 | 80 | 52 | .106 | .119 | 1.46 | .50 | 4.9 | 4.1 | 5.0 |
| April | 23.293 | 23.598 | 22.915 | 30.2 | 52.3 | 57.6 | 27.2 | 42.4 | 69 | 19 | 20 | 16 | 66 | 24 | .107 | .088 | .26 | .14 | 1.9 | 2.2 | 2.3 |
| May | 23.271 | 23.450 | 23.116 | 32.3 | 59.2 | 64.3 | 29.9 | 47.1 | 75 | 20 | 22 | 18 | 65 | 21 | .117 | .100 | .13 | .08 | 2.1 | 2.8 | 2.6 |
| June | 23.390 | 23.510 | 23.268 | 42.8 | 73.5 | 78.2 | 39.3 | 58.8 | 89 | 31 | 28 | 25 | 56 | 17 | .156 | .142 | .22 | .17 | 0.5 | 1.7 | 1.3 |
| July | 23.454 | 23.556 | 23.274 | 52.7 | 74.1 | 79.5 | 49.6 | 64.6 | 91 | 40 | 44 | 46 | 74 | 41 | .298 | .320 | 1.74 | .51 | 3.6 | 4.5 | 3.9 |
| August | 23.472 | 23.561 | 23.333 | 53.2 | 66.4 | 74.2 | 51.5 | 62.8 | 82 | 47 | 51 | 54 | 94 | 68 | .379 | .426 | 6.73 | 1.22 | 5.7 | 7.8 | 7.0 |
| September | 23.464 | 23.628 | 23.263 | 44.7 | 64.0 | 69.6 | 41.7 | 55.6 | 76 | 32 | 40 | 43 | 86 | 48 | .257 | .283 | 1.74 | 1.39 | 2.8 | 2.3 | 3.2 |
| October | 23.432 | 23.654 | 23.252 | 31.4 | 55.3 | 65.4 | 28.0 | 46.7 | 75 | 12 | 22 | 32 | 68 | 42 | .119 | .182 | T. | T. | 0.7 | 2.3 | 1.6 |
| November | 23.367 | 23.610 | 23.081 | 24.5 | 40.0 | 51.3 | 18.9 | 35.1 | 67 | 4 | 18 | 25 | 76 | 57 | .101 | .134 | 1.51 | .87 | 3.2 | 3.5 | 4.0 |
| December | 23.266 | 23.562 | 22.937 | 16.1 | 25.0 | 35.5 | 8.7 | 22.1 | 52 | −12 | 10 | 17 | 79 | 71 | .061 | .068 | 2.98 | 1.21 | 4.3 | 5.8 | 5.3 |
| Year | 23.353 | 23.654 | 22.805 | 33.3 | 51.7 | 58.7 | 29.3 | 44.0 | 91 | −12 | 26 | 29 | 76 | 47 | .161 | .179 | 22.75 | 1.81 | 3.2 | 4.1 | 4.0 |

FORT SMITH, ARK.

[$\phi$=35° 22′ N.; $\lambda$=94° 24′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.650 | 30.106 | 28.972 | 38.6 | 44.7 | 50.3 | 34.5 | 42.4 | 77 | 6 | 34 | 33 | 84 | 67 | 0.225 | 0.221 | 0.62 | 0.42 | 8.7 | 6.6 | 7.8 |
| February | 29.484 | 30.080 | 28.889 | 37.9 | 51.6 | 58.2 | 35.0 | 46.6 | 77 | 16 | 31 | 31 | 76 | 48 | .187 | .194 | 2.84 | 1.43 | 5.3 | 4.3 | 3.8 |
| March | 29.446 | 29.898 | 28.940 | 45.1 | 56.5 | 61.4 | 42.1 | 51.8 | 76 | 30 | 36 | 37 | 71 | 52 | .224 | .234 | 2.03 | .86 | 6.5 | 5.9 | 4.9 |
| April | 29.489 | 29.931 | 28.890 | 53.5 | 66.3 | 71.5 | 49.6 | 60.6 | 85 | 37 | 43 | 43 | 70 | 47 | .296 | .306 | 2.53 | 1.59 | 5.1 | 4.4 | 4.4 |
| May | 29.394 | 29.720 | 29.063 | 60.9 | 73.5 | 77.5 | 57.9 | 67.7 | 89 | 37 | 54 | 54 | 78 | 52 | .423 | .434 | 7.23 | 2.90 | 5.4 | 4.2 | 4.2 |
| June | 29.490 | 29.676 | 29.274 | 70.7 | 80.1 | 86.3 | 67.6 | 77.0 | 94 | 62 | 66 | 67 | 86 | 65 | .647 | .661 | 3.02 | .80 | 5.8 | 4.8 | 4.9 |
| July | 29.464 | 29.741 | 29.246 | 76.9 | 88.6 | 93.3 | 73.2 | 83.2 | 100 | 65 | 69 | 69 | 77 | 53 | .714 | .719 | 2.74 | 2.37 | 3.3 | 2.8 | 2.6 |
| August | 29.496 | 29.691 | 29.205 | 75.2 | 89.9 | 95.9 | 72.6 | 84.2 | 108 | 65 | 65 | 63 | 72 | 43 | .628 | .590 | .82 | .76 | 4.0 | 4.9 | 3.5 |
| September | 29.551 | 29.868 | 29.087 | 66.0 | 82.0 | 89.2 | 63.6 | 76.4 | 104 | 42 | 56 | 58 | 72 | 39 | .495 | .438 | .38 | .31 | 3.2 | 4.3 | 3.3 |
| October | 29.598 | 29.875 | 29.274 | 53.5 | 69.1 | 76.5 | 51.3 | 63.9 | 92 | 36 | 46 | 45 | 76 | 46 | .318 | .311 | 3.83 | 1.81 | 2.5 | 2.9 | 2.6 |
| November | 29.624 | 30.038 | 29.248 | 52.1 | 62.3 | 70.1 | 49.3 | 59.7 | 85 | 29 | 46 | 48 | 81 | 62 | .334 | .355 | 3.15 | 1.43 | 5.4 | 4.0 | 5.1 |
| December | 29.633 | 29.955 | 29.244 | 28.6 | 36.5 | 42.5 | 25.6 | 34.0 | 72 | 13 | 22 | 25 | 74 | 61 | .129 | .146 | 2.18 | 1.26 | 4.6 | 4.0 | 5.0 |
| Year | 29.526 | 30.106 | 28.889 | 54.9 | 66.8 | 72.7 | 51.9 | 62.3 | 108 | 6 | 47 | 47 | 76 | 53 | .385 | .384 | 31.37 | 2.90 | 5.0 | 4.4 | 4.3 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

EUREKA, CAL.

[H=62 ft.; $h_t$=62 ft.; $h_r$=55 ft.; $h_a$=80 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 9.3 | SE. | 48 | SW. | 1 | 4 | 2 | 3 | 28 | 13 | 8 | 2 | 2 | 0 | 1 | 13 | 17 | 25 | 24 | 0 | 2 | 2 | 0 | 0 | 3 | 1 | 0 |
| February | 8.9 | SE. | 43 | N. | 3 | 5 | 3 | 3 | 20 | 12 | 5 | 3 | 3 | 2 | 1 | 8 | 19 | 24 | 19 | 0 | 2 | 2 | 0 | 0 | 0 | 2 | 0 |
| March | 7.8 | SE. | 44 | N. | 1 | 13 | 3 | 5 | 13 | 9 | 8 | 6 | 5 | 0 | 7 | 12 | 12 | 12 | 10 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| April | 10.3 | N. | 37 | N. | 0 | 25 | 2 | 2 | 4 | 8 | 2 | 0 | 16 | 1 | 21 | 6 | 3 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| May | 8.6 | N. | 41 | N. | 1 | 17 | 2 | 3 | 4 | 8 | 6 | 5 | 16 | 1 | 13 | 13 | 5 | 6 | 5 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| June | 8.1 | NW. | 40 | NW. | 1 | 13 | 0 | 0 | 2 | 6 | 4 | 11 | 24 | 0 | 7 | 16 | 7 | 2 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| July | 9.4 | NW. | 38 | NW. | 0 | 22 | 1 | 1 | 1 | 8 | 3 | 2 | 24 | 0 | 1 | 23 | 7 | 6 | 3 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| August | 6.3 | N. | 39 | N. | 0 | 19 | 0 | 2 | 2 | 10 | 5 | 7 | 17 | 0 | 7 | 14 | 10 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| September | 6.4 | N. | 43 | N. | 3 | 17 | 2 | 4 | 4 | 7 | 8 | 9 | 9 | 0 | 12 | 4 | 14 | 5 | 4 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 |
| October | 5.7 | SE. | 30 | SE. | 0 | 9 | 1 | 2 | 15 | 10 | 8 | 6 | 11 | 0 | 7 | 8 | 16 | 12 | 11 | 0 | 0 | 10 | 0 | 0 | 0 | 1 | 0 |
| November | 7.3 | SE. | 28 | SE. | 0 | 12 | 3 | 2 | 17 | 17 | 5 | 3 | 1 | 0 | 6 | 3 | 21 | 21 | 21 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| December | 7.5 | SE. | 43 | SE. | 1 | 17 | 4 | 10 | 20 | 1 | 2 | 4 | 4 | 0 | 13 | 5 | 13 | 15 | 11 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 0 |
| Year | 8.0 | N. | 48 | SW. | 11 | 173 | 23 | 37 | 130 | 109 | 64 | 58 | 132 | 4 | 96 | 125 | 144 | 129 | 110 | 0 | 6 | 65 | 0 | 0 | 3 | 4 | 0 |

EVANSVILLE, IND.

[H=431 ft.; $h_t$=72 ft.; $h_r$=66 ft.; $h_a$=82 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 9.0 | S. | 38 | W. | 0 | 5 | 6 | 1 | 4 | 8 | 1 | 2 | 4 | 0 | 2 | 7 | 22 | 14 | 11 | 5 | 0 | 0 | 9 | 0 | 19 | 0 | 0 |
| February | 10.1 | S. | 36 | SW. | 0 | 2 | 2 | 1 | 3 | 10 | 1 | 6 | 3 | 0 | 4 | 15 | 9 | 12 | 12 | 3 | 2 | 0 | 2 | 0 | 10 | 5 | 0 |
| March | 8.5 | NW. | 41 | S. | 1 | 5 | 5 | 1 | 2 | 5 | 4 | 4 | 5 | 0 | 6 | 15 | 10 | 10 | 6 | 0 | 2 | 2 | 0 | 0 | 5 | 5 | 0 |
| April | 10.6 | S. | 50 | S. | 1 | 4 | 5 | 1 | 5 | 8 | 2 | 4 | 1 | 0 | 9 | 16 | 5 | 10 | 9 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 0 |
| May | 8.3 | S. | 34 | S. | 0 | 2 | 9 | 4 | 2 | 6 | 3 | 3 | 2 | 0 | 7 | 18 | 6 | 14 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| June | 5.8 | S. | 26 | S. | 0 | 1 | 5 | 4 | 2 | 12 | 3 | 1 | 2 | 0 | 5 | 23 | 2 | 15 | 9 | 0 | 0 | 0 | 0 | 7 | 0 | 12 | 0 |
| July | 6.1 | NE. | 32 | W. | 0 | 3 | 7 | 3 | 4 | 7 | 1 | 1 | 5 | 0 | 11 | 15 | 5 | 8 | 8 | 0 | 0 | 0 | 0 | 7 | 0 | 9 | 0 |
| August | 5.0 | NE. | 28 | N. | 0 | 2 | 14 | 0 | 3 | 9 | 1 | 0 | 2 | 0 | 19 | 12 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 16 | 0 | 7 | 0 |
| September | 7.0 | NE. | 32 | S. | 0 | 6 | 12 | 2 | 3 | 2 | 2 | 1 | 2 | 0 | 13 | 16 | 1 | 9 | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 |
| October | 7.2 | NE. | 32 | W. | 0 | 2 | 8 | 3 | 3 | 5 | 3 | 5 | 2 | 0 | 14 | 12 | 5 | 9 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 |
| November | 8.8 | S. | 42 | S. | 2 | 3 | 4 | 1 | 7 | 9 | 3 | 2 | 1 | 0 | 7 | 13 | 10 | 8 | 7 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 |
| December | 8.0 | W. | 38 | W. | 0 | 3 | 3 | 3 | 3 | 4 | 4 | 9 | 2 | 0 | 6 | 14 | 11 | 11 | 10 | 5 | 0 | 1 | 12 | 0 | 25 | 0 | 0 |
| Year | 7.9 | S. | 50 | S. | 4 | 38 | 80 | 24 | 41 | 85 | 28 | 38 | 31 | 0 | 103 | 176 | 86 | 125 | 96 | 13 | 4 | 3 | 23 | 31 | 65 | 56 | 0 |

FLAGSTAFF, ARIZ.

[H=6,907 ft.; $h_t$=8 ft.; $h_r$=3 ft.; $h_a$=57 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 6.9 | SW. | 37 | SW. | 0 | 1 | 4 | 7 | 5 | 1 | 10 | 18 | 16 | 0 | 6 | 10 | 15 | 8 | 8 | 6 | 0 | 0 | 3 | 0 | 29 | 0 | 0 |
| February | 7.9 | SW. | 48 | SW. | 2 | 5 | 3 | 4 | 1 | 0 | 18 | 15 | 10 | 0 | 9 | 9 | 10 | 9 | 8 | 9 | 0 | 0 | 4 | 0 | 28 | 0 | 0 |
| March | 8.3 | SW. | 34 | SW. | 0 | 3 | 4 | 3 | 3 | 2 | 19 | 17 | 11 | 0 | 11 | 11 | 9 | 10 | 8 | 10 | 0 | 0 | 3 | 0 | 31 | 0 | 0 |
| April | 10.9 | SW. | 47 | SW. | 3 | 1 | 5 | 7 | 0 | 2 | 21 | 10 | 14 | 0 | 21 | 5 | 4 | 4 | 2 | 3 | 0 | 0 | 0 | 0 | 27 | 1 | 0 |
| May | 9.7 | SW. | 43 | SW. | 1 | 2 | 5 | 4 | 0 | 3 | 19 | 9 | 20 | 0 | 22 | 6 | 3 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 22 | 3 | 0 |
| June | 8.6 | SW. | 36 | SW. | 0 | 7 | 2 | 2 | 0 | 4 | 21 | 7 | 16 | 1 | 26 | 4 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 |
| July | 7.2 | SW. | 36 | SW. | 0 | 3 | 7 | 0 | 3 | 1 | 16 | 9 | 22 | 1 | 14 | 10 | 7 | 12 | 10 | 0 | 0 | 0 | 0 | 2 | 0 | 13 | 0 |
| August | 4.8 | N. | 31 | NW. | 0 | 12 | 8 | 2 | 2 | 6 | 8 | 7 | 17 | 0 | 3 | 13 | 15 | 21 | 19 | 0 | 1 | 0 | 0 | 0 | 0 | 22 | 0 |
| September | 6.1 | SW. | 27 | SW. | 0 | 2 | 12 | 10 | 2 | 4 | 13 | 6 | 11 | 0 | 18 | 7 | 5 | 8 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 7 | 0 |
| October | 7.6 | NW. | 36 | SW. | 0 | 8 | 8 | 7 | 1 | 0 | 17 | 9 | 12 | 0 | 27 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 6 | 0 |
| November | 7.4 | SW. | 40 | SW. | 1 | 3 | 11 | 7 | 2 | 1 | 16 | 10 | 10 | 0 | 16 | 8 | 6 | 5 | 4 | 5 | 0 | 0 | 1 | 0 | 28 | 1 | 0 |
| December | 6.7 | SW. | 28 | SW. | 0 | 5 | 5 | 11 | 0 | 0 | 12 | 18 | 11 | 0 | 13 | 5 | 13 | 12 | 10 | 11 | 0 | 0 | 13 | 0 | 30 | 0 | 0 |
| Year | 7.7 | SW. | 48 | SW. | 7 | 52 | 74 | 64 | 19 | 24 | 190 | 135 | 170 | 2 | 186 | 92 | 87 | 95 | 77 | 44 | 2 | 0 | 24 | 2 | 223 | 49 | 0 |

FORT SMITH, ARK.

[H=457 ft.; $h_t$=79 ft.; $h_r$=72 ft.; $h_a$=94 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 9.7 | E. | 64 | W. | 1 | 5 | 1 | 34 | 1 | 3 | 2 | 5 | 11 | 0 | 4 | 5 | 22 | 7 | 4 | 2 | 1 | 1 | 4 | 0 | 11 | 2 | 0 |
| February | 8.7 | E. | 52 | NW. | 2 | 1 | 2 | 21 | 3 | 8 | 8 | 8 | 5 | 0 | 16 | 7 | 5 | 8 | 7 | 2 | 2 | 0 | 1 | 0 | 10 | 3 | 0 |
| March | 9.9 | E. | 42 | SW. | 1 | 10 | 8 | 18 | 3 | 5 | 5 | 4 | 9 | 0 | 13 | 8 | 10 | 11 | 8 | 0 | 0 | 2 | 0 | 0 | 1 | 2 | 0 |
| April | 10.5 | E. | 47 | SW. | 2 | 9 | 1 | 14 | 14 | 7 | 1 | 6 | 8 | 0 | 14 | 10 | 6 | 10 | 10 | 0 | 1 | 0 | 0 | 0 | 0 | 8 | 0 |
| May | 8.4 | E. | 42 | N. | 3 | 4 | 2 | 27 | 7 | 7 | 2 | 4 | 9 | 0 | 16 | 7 | 8 | 12 | 8 | 0 | 1 | 0 | 0 | 0 | 0 | 7 | 0 |
| June | 6.1 | E. | 46 | NW. | 1 | 1 | 4 | 29 | 11 | 5 | 2 | 2 | 6 | 0 | 11 | 14 | 5 | 14 | 11 | 0 | 0 | 0 | 0 | 4 | 0 | 12 | 0 |
| July | 6.6 | E. | 36 | E. | 0 | 5 | 6 | 23 | 10 | 13 | 5 | 0 | 0 | 0 | 21 | 8 | 2 | 4 | 3 | 0 | 0 | 0 | 0 | 23 | 0 | 3 | 0 |
| August | 6.6 | E. | 31 | E. | 0 | 7 | 4 | 39 | 1 | 5 | 6 | 0 | 0 | 0 | 17 | 9 | 5 | 3 | 2 | 0 | 0 | 0 | 0 | 28 | 0 | 2 | 0 |
| September | 6.5 | E. | 25 | SW. | 0 | 7 | 12 | 24 | 7 | 5 | 4 | 0 | 1 | 0 | 18 | 5 | 7 | 5 | 1 | 0 | 0 | 0 | 0 | 13 | 0 | 4 | 0 |
| October | 7.9 | E. | 35 | S. | 0 | 2 | 3 | 30 | 7 | 3 | 7 | 4 | 6 | 0 | 22 | 5 | 4 | 6 | 4 | 0 | 0 | 0 | 0 | 6 | 0 | 3 | 0 |
| November | 9.1 | E. | 32 | W. | 0 | 0 | 1 | 27 | 11 | 6 | 4 | 4 | 7 | 0 | 10 | 11 | 9 | 8 | 6 | 0 | 0 | 1 | 0 | 0 | 2 | 1 | 0 |
| December | 9.2 | E. | 37 | NW. | 0 | 5 | 2 | 17 | 1 | 3 | 12 | 8 | 14 | 0 | 13 | 6 | 12 | 8 | 7 | 2 | 0 | 0 | 5 | 0 | 27 | 1 | 0 |
| Year | 8.3 | E. | 64 | W. | 10 | 56 | 46 | 303 | 76 | 70 | 58 | 45 | 76 | 0 | 175 | 95 | 95 | 96 | 71 | 6 | 5 | 4 | 10 | 74 | 51 | 48 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

FORT WORTH, TEX.

[$\phi$=32° 43′ N.; $\lambda$=97° 15′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.427 | 29.867 | 29.035 | 43.5 | ..... | 58.7 | 39.4 | 49.0 | 85 | 8 | 40 | .... | 86 | .... | 0.286 | ..... | 0.09 | 0.06 | 6.1 | 4.4 | 5.4 |
| February | 29.294 | 29.826 | 28.751 | 43.6 | ..... | 66.8 | 40.8 | 53.8 | 83 | 15 | 35 | .... | 73 | .... | .231 | ..... | .11 | .09 | 4.0 | 2.5 | 3.2 |
| March | 29.219 | 29.645 | 28.828 | 49.5 | ..... | 71.1 | 47.0 | 59.0 | 91 | 34 | 39 | .... | 70 | .... | .257 | ..... | .41 | .24 | 5.0 | 3.9 | 3.5 |
| April | 29.269 | 29.750 | 28.938 | 54.9 | ..... | 76.0 | 52.5 | 64.2 | 97 | 33 | 48 | .... | 77 | .... | .358 | ..... | 1.66 | .93 | 4.4 | 3.2 | 3.4 |
| May | 29.170 | 29.540 | 28.930 | 63.4 | ..... | 83.9 | 61.4 | 72.6 | 94 | 40 | 56 | .... | 77 | .... | .475 | ..... | 1.09 | .45 | 4.4 | 3.6 | 2.8 |
| June | 29.244 | 29.388 | 29.113 | 72.2 | ..... | 91.6 | 71.2 | 81.4 | 98 | 62 | 66 | .... | 82 | .... | .647 | ..... | 2.97 | 1.84 | 3.9 | 3.5 | 3.4 |
| July | 29.239 | 29.431 | 29.112 | 76.1 | ..... | 97.2 | 77.5 | 87.4 | 104 | 72 | 70 | .... | 77 | .... | .741 | ..... | .02 | .02 | 3.7 | 2.2 | 2.6 |
| August | 29.259 | 29.402 | 29.062 | 76.3 | ..... | 95.7 | 75.4 | 85.6 | 112 | 70 | 66 | .... | 73 | .... | .654 | ..... | 2.38 | 1.00 | 3.4 | 3.8 | 3.8 |
| September | 29.330 | 29.594 | 28.955 | 67.8 | ..... | 89.4 | 66.9 | 78.2 | 100 | 49 | 56 | .... | 66 | .... | .488 | ..... | 2.08 | 1.43 | 2.1 | 2.0 | 1.9 |
| October | 29.362 | 29.647 | 29.158 | 58.6 | ..... | 80.7 | 57.1 | 68.9 | 95 | 43 | 49 | .... | 73 | .... | .373 | ..... | 2.20 | 1.33 | 2.2 | 1.6 | 1.9 |
| November | 29.383 | 29.814 | 28.986 | 55.6 | ..... | 73.0 | 53.4 | 63.2 | 85 | 33 | 51 | .... | 85 | .... | .405 | ..... | 5.11 | 2.33 | 5.0 | 3.2 | 4.3 |
| December | 29.415 | 29.683 | 28.990 | 34.1 | ..... | 49.1 | 29.7 | 39.4 | 77 | 9 | 28 | .... | 76 | .... | .168 | ..... | 2.81 | 1.26 | 4.2 | 2.9 | 4.0 |
| Year | 29.301 | 29.867 | 28.751 | 58.1 | ..... | 77.8 | 56.0 | 66.9 | 112 | 8 | 50 | .... | 76 | .... | .424 | ..... | 20.93 | 2.33 | 4.0 | 3.1 | 3.4 |

FRESNO, CAL.

[$\phi$=36° 43′ N.; $\lambda$=119° 49′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.687 | 29.915 | 29.285 | 47.2 | 55.3 | 59.1 | 44.5 | 51.8 | 71 | 33 | 45 | 48 | 93 | 79 | 0.306 | 0.345 | 4.44 | 1.31 | 6.2 | 7.5 | 8.7 |
| February | 29.753 | 30.011 | 29.419 | 43.9 | 55.5 | 58.4 | 40.9 | 49.6 | 70 | 33 | 41 | 44 | 90 | 67 | .259 | .288 | 2.76 | .68 | 4.4 | 6.1 | 6.7 |
| March | 29.663 | 29.959 | 29.272 | 42.9 | 60.2 | 63.0 | 41.2 | 52.1 | 72 | 35 | 38 | 42 | 85 | 53 | .234 | .274 | 1.18 | .35 | 3.6 | 4.6 | 4.2 |
| April | 29.662 | 29.925 | 29.387 | 49.6 | 75.3 | 77.3 | 48.0 | 62.6 | 89 | 40 | 43 | 43 | 79 | 33 | .275 | .284 | T. | T. | 1.6 | 1.6 | 1.5 |
| May | 29.578 | 29.851 | 29.402 | 50.2 | 79.9 | 82.1 | 49.2 | 65.6 | 105 | 40 | 39 | 35 | 68 | 22 | .240 | .213 | 0 | 0 | .5 | 2.8 | .9 |
| June | 29.529 | 29.692 | 29.247 | 58.7 | 89.6 | 91.6 | 58.2 | 74.9 | 106 | 50 | 40 | 42 | 51 | 22 | .245 | .275 | .08 | .08 | .8 | 1.5 | 1.4 |
| July | 29.519 | 29.671 | 29.338 | 62.5 | 95.5 | 97.0 | 61.6 | 79.3 | 107 | 54 | 43 | 41 | 50 | 16 | .276 | .262 | 0 | 0 | .4 | .1 | .4 |
| August | 29.495 | 29.605 | 29.291 | 63.8 | 97.2 | 98.7 | 62.7 | 80.7 | 106 | 52 | 46 | 43 | 53 | 16 | .306 | .275 | 0 | 0 | .9 | 1.0 | .8 |
| September | 29.556 | 29.771 | 29.368 | 59.3 | 89.3 | 90.9 | 57.7 | 74.3 | 101 | 51 | 46 | 44 | 63 | 22 | .318 | .293 | 0 | 0 | 1.2 | 1.5 | 2.1 |
| October | 29.684 | 29.866 | 29.395 | 52.5 | 73.4 | 77.9 | 50.0 | 64.0 | 91 | 40 | 46 | 47 | 79 | 42 | .313 | .323 | .72 | .53 | 2.3 | 3.2 | 2.7 |
| November | 29.763 | 30.054 | 29.432 | 46.2 | 60.0 | 64.3 | 43.3 | 53.8 | 79 | 34 | 42 | 45 | 87 | 60 | .278 | .308 | 2.79 | 1.23 | 2.9 | 3.3 | 4.2 |
| December | 29.699 | 30.015 | 29.234 | 41.2 | 49.4 | 52.5 | 37.8 | 45.2 | 62 | 30 | 38 | 40 | 88 | 73 | .235 | .257 | 4.50 | 1.72 | 4.5 | 5.5 | 7.0 |
| Year | 29.632 | 30.054 | 29.234 | 51.5 | 73.4 | 76.1 | 49.6 | 62.8 | 107 | 30 | 42 | 43 | 74 | 42 | .274 | .283 | 16.47 | 1.72 | 2.4 | 3.2 | 3.4 |

GALVESTON, TEX.

[$\phi$=29° 18′ N.; $\lambda$=94° 50′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 30.115 | 30.522 | 29.762 | 55.9 | 58.0 | 63.2 | 52.3 | 57.8 | 74 | 28 | 54 | 55 | 92 | 90 | 0.436 | 0.455 | 0.02 | 0.02 | 4.6 | 4.5 | 4.9 |
| February | 30.025 | 30.533 | 29.570 | 54.9 | 58.2 | 62.9 | 51.3 | 57.1 | 74 | 24 | 51 | 52 | 86 | 80 | .402 | .407 | 1.46 | .90 | 5.0 | 3.9 | 4.7 |
| March | 29.885 | 30.295 | 29.503 | 59.8 | 63.6 | 67.6 | 57.9 | 62.8 | 82 | 43 | 56 | 56 | 88 | 79 | .462 | .469 | 1.97 | .96 | 5.6 | 5.2 | 4.9 |
| April | 29.956 | 30.335 | 29.622 | 65.8 | 68.4 | 72.1 | 63.6 | 67.8 | 82 | 51 | 61 | 62 | 86 | 82 | .571 | .582 | 3.39 | 2.55 | 5.3 | 5.2 | 4.5 |
| May | 29.846 | 30.190 | 29.551 | 71.7 | 74.7 | 77.5 | 69.2 | 73.4 | 85 | 54 | 66 | 66 | 84 | 77 | .667 | .673 | 5.85 | 2.70 | 4.3 | 4.9 | 4.4 |
| June | 29.904 | 30.072 | 29.736 | 79.9 | 82.1 | 85.8 | 76.9 | 81.4 | 91 | 69 | 73 | 73 | 81 | 74 | .821 | .810 | 3.08 | 1.83 | 3.9 | 4.1 | 3.7 |
| July | 29.922 | 30.114 | 29.527 | 81.9 | 83.8 | 87.5 | 80.5 | 84.0 | 91 | 72 | 75 | 75 | 80 | 75 | .871 | .860 | .61 | .50 | 3.7 | 4.8 | 3.8 |
| August | 29.898 | 30.046 | 29.681 | 80.1 | 83.4 | 88.2 | 78.5 | 83.4 | 95 | 71 | 75 | 74 | 84 | 74 | .858 | .844 | 4.06 | 2.14 | 4.3 | 4.1 | 3.9 |
| September | 29.950 | 30.151 | 29.544 | 76.1 | 80.9 | 84.7 | 74.7 | 79.7 | 91 | 58 | 68 | 67 | 76 | 65 | .713 | .697 | 2.30 | 1.16 | 3.1 | 2.7 | 3.0 |
| October | 30.033 | 30.240 | 29.778 | 70.3 | 74.3 | 78.4 | 68.8 | 73.6 | 86 | 56 | 65 | 64 | 83 | 72 | .625 | .613 | 7.61 | 5.75 | 2.3 | 1.8 | 2.5 |
| November | 30.085 | 30.432 | 29.845 | 68.7 | 70.5 | 74.3 | 66.3 | 70.3 | 79 | 48 | 62 | 63 | 79 | 77 | .579 | .590 | 1.89 | 1.26 | 4.7 | 2.8 | 3.6 |
| December | 30.061 | 30.366 | 29.746 | 49.3 | 53.9 | 58.9 | 46.0 | 52.4 | 76 | 31 | 43 | 44 | 79 | 71 | .307 | .326 | 2.51 | .83 | 6.0 | 4.5 | 5.2 |
| Year | 29.973 | 30.533 | 29.503 | 67.9 | 71.0 | 75.1 | 65.5 | 70.3 | 95 | 24 | 62 | 63 | 83 | 76 | .609 | .610 | 34.95 | 5.75 | 4.4 | 4.0 | 4.1 |

GRAND HAVEN, MICH.

[$\phi$=43° 5′ N.; $\lambda$=86° 13′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.413 | 29.925 | 28.480 | 25.1 | 28.0 | 32.8 | 20.6 | 26.7 | 57 | 1 | 22 | 23 | 88 | 81 | 0.131 | 0.138 | 2.44 | 1.04 | 7.7 | 5.9 | 7.3 |
| February | 29.200 | 29.762 | 28.367 | 25.8 | 29.1 | 35.2 | 21.0 | 27.1 | 46 | 3 | 22 | 25 | 84 | 84 | .121 | .141 | 3.12 | 1.16 | 8.2 | 6.6 | 7.7 |
| March | 29.214 | 29.771 | 28.688 | 29.2 | 33.1 | 36.9 | 26.2 | 31.6 | 46 | 16 | 25 | 28 | 84 | 78 | .136 | .150 | 1.29 | .41 | 6.7 | 6.3 | 6.6 |
| April | 29.253 | 29.728 | 28.606 | 38.2 | 42.2 | 48.1 | 33.4 | 40.8 | 70 | 18 | 34 | 37 | 87 | 82 | .205 | .230 | 8.43 | 2.01 | 7.2 | 6.4 | 6.3 |
| May | 29.220 | 29.541 | 28.800 | 50.7 | 54.9 | 61.8 | 44.1 | 53.0 | 80 | 30 | 44 | 46 | 80 | 73 | .308 | .329 | 3.17 | 1.23 | 5.6 | 5.5 | 5.4 |
| June | 29.314 | 29.626 | 29.029 | 61.4 | 66.5 | 71.2 | 56.4 | 63.8 | 86 | 43 | 57 | 58 | 86 | 76 | .475 | .499 | 5.03 | 1.43 | 6.7 | 4.6 | 5.3 |
| July | 29.287 | 29.645 | 28.911 | 65.0 | 70.1 | 75.8 | 58.3 | 67.0 | 84 | 48 | 58 | 57 | 78 | 64 | .486 | .471 | .76 | .54 | 3.9 | 3.7 | 3.8 |
| August | 29.355 | 29.635 | 29.036 | 66.3 | 70.5 | 76.9 | 60.9 | 68.9 | 85 | 45 | 61 | 60 | 83 | 70 | .545 | .528 | 3.24 | 1.37 | 3.7 | 4.5 | 4.0 |
| September | 29.422 | 29.882 | 28.943 | 54.9 | 61.3 | 67.9 | 50.3 | 59.1 | 83 | 35 | 51 | 52 | 88 | 72 | .392 | .398 | 2.20 | 1.31 | 5.2 | 4.4 | 4.2 |
| October | 29.367 | 29.948 | 28.782 | 42.5 | 48.1 | 54.6 | 38.7 | 46.6 | 78 | 26 | 37 | 40 | 82 | 72 | .230 | .254 | 1.57 | .85 | 6.1 | 5.9 | 5.7 |
| November | 29.421 | 29.898 | 28.900 | 39.8 | 44.1 | 51.1 | 35.7 | 43.4 | 67 | 16 | 36 | 37 | 85 | 77 | .218 | .235 | 2.47 | .79 | 7.0 | 4.3 | 6.3 |
| December | 29.245 | 29.693 | 28.637 | 24.9 | 25.4 | 29.9 | 20.0 | 25.0 | 56 | 2 | 22 | 22 | 86 | 86 | .119 | .120 | 4.29 | .68 | 9.8 | 9.2 | 9.3 |
| Year | 29.309 | 29.948 | 28.367 | 43.6 | 47.8 | 53.4 | 38.8 | 46.1 | 86 | 1 | 39 | 40 | 84 | 76 | .280 | .291 | 38.01 | 2.01 | 6.5 | 5.6 | 6.0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

FORT WORTH, TEX.

[H=670 ft.; $h_t$=106 ft.; $h_r$=51 ft.; $h_a$=114 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | 32° or below. Minimum temperature | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 12.7 | S. | 48 | NW. | 1 | 4 | 5 | 3 | 13 | 19 | 1 | 3 | 14 | 0 | 8 | 15 | 8 | 2 | 1 | 0 | 0 | 1 | 2 | 0 | 10 | 0 | 0 |
| February | 14.1 | S. | 44 | W. | 2 | 3 | 0 | 0 | 9 | 18 | 8 | 3 | 15 | 0 | 16 | 10 | 2 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 8 | 3 | 0 |
| March | 12.4 | S. | 52 | W. | 2 | 10 | 7 | 6 | 9 | 7 | 6 | 4 | 13 | 0 | 21 | 5 | 5 | 7 | 4 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| April | 14.3 | S. | 48 | NW. | 3 | 5 | 2 | 4 | 10 | 23 | 5 | 1 | 10 | 0 | 18 | 7 | 5 | 4 | 4 | 0 | 2 | 0 | 0 | 2 | 0 | 3 | 0 |
| May | 12.6 | S. | 44 | SW. | 2 | 5 | 4 | 7 | 8 | 25 | 3 | 3 | 7 | 0 | 19 | 11 | 1 | 5 | 4 | 0 | 1 | 1 | 0 | 4 | 0 | 10 | 0 |
| June | 9.7 | S. | 40 | NW. | 1 | 4 | 7 | 8 | 14 | 17 | 5 | 1 | 4 | 0 | 15 | 15 | 0 | 10 | 7 | 0 | 1 | 0 | 0 | 22 | 0 | 16 | 0 |
| July | 11.1 | S. | 31 | SE. | 0 | 3 | 6 | 5 | 17 | 24 | 5 | 1 | 1 | 0 | 22 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 5 | 0 |
| August | 8.2 | S. | 32 | E. | 0 | 4 | 5 | 19 | 7 | 11 | 11 | 1 | 4 | 0 | 13 | 15 | 3 | 8 | 7 | 0 | 0 | 0 | 0 | 27 | 0 | 5 | 0 |
| September | 8.5 | S. | 25 | N. | 0 | 8 | 7 | 7 | 5 | 20 | 6 | 0 | 7 | 0 | 24 | 6 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 17 | 0 | 3 | 0 |
| October | 10.2 | S. | 34 | S. | 0 | 2 | 3 | 4 | 16 | 16 | 9 | 5 | 7 | 0 | 25 | 4 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 4 | 0 | 2 | 0 |
| November | 12.6 | S. | 42 | SE. | 1 | 1 | 1 | 6 | 19 | 15 | 5 | 5 | 8 | 0 | 12 | 12 | 6 | 10 | 8 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 |
| December | 10.1 | NW. | 32 | NW. | 0 | 9 | 5 | 4 | 6 | 9 | 4 | 8 | 17 | 0 | 17 | 5 | 9 | 5 | 5 | 2 | 0 | 0 | 3 | 0 | 19 | 1 | 0 |
| Year | 11.4 | S. | 52 | W. | 12 | 58 | 52 | 73 | 133 | 204 | 68 | 35 | 107 | 0 | 210 | 114 | 41 | 59 | 46 | 2 | 4 | 3 | 6 | 109 | 37 | 53 | 0 |

FRESNO, CAL.

[H=330 ft.; $h_t$=67 ft.; $h_r$=54 ft.; $h_a$=70 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 5.7 | SE. | 30 | S. | 0 | 4 | 3 | 14 | 26 | 0 | 2 | 6 | 7 | 0 | 2 | 0 | 29 | 17 | 13 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| February | 5.3 | NW. | 27 | NW. | 0 | 1 | 4 | 16 | 6 | 2 | 4 | 8 | 15 | 0 | 8 | 5 | 15 | 11 | 11 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| March | 5.8 | NW. | 24 | E. | 0 | 1 | 4 | 9 | 9 | 2 | 4 | 18 | 15 | 0 | 16 | 7 | 8 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| April | 5.4 | NW. | 24 | W. | 0 | 2 | 7 | 4 | 1 | 0 | 3 | 14 | 27 | 2 | 27 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 7.4 | W. | 26 | W. | 0 | 3 | 1 | 1 | 1 | 0 | 25 | 30 | 0 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| June | 6.3 | NW. | 20 | NW. | 0 | 0 | 0 | 0 | 1 | 0 | 7 | 21 | 30 | 1 | 27 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 |
| July | 7.1 | NW. | 22 | NW. | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 28 | 32 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 0 |
| August | 5.7 | W. | 17 | W. | 0 | 1 | 0 | 0 | 1 | 0 | 6 | 24 | 30 | 0 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 |
| September | 4.9 | NW. | 16 | NW. | 0 | 2 | 0 | 2 | 3 | 1 | 13 | 16 | 23 | 0 | 24 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 |
| October | 4.0 | W | 22 | NW. | 0 | 1 | 7 | 3 | 0 | 0 | 6 | 25 | 19 | 1 | 20 | 8 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| November | 3.6 | NW. | 20 | NW. | 0 | 1 | 10 | 11 | 6 | 1 | 1 | 11 | 17 | 2 | 12 | 12 | 6 | 10 | 8 | 0 | 0 | 4 | 0 | 0 | 0 | 1 | 0 |
| December | 4.5 | E. | 24 | SE. | 0 | 1 | 4 | 20 | 7 | 4 | 3 | 9 | 12 | 2 | 6 | 6 | 19 | 11 | 10 | 0 | 0 | 5 | 0 | 0 | 5 | 1 | 0 |
| Year | 5.5 | NW. | 30 | S. | 0 | 17 | 40 | 80 | 61 | 11 | 51 | 205 | 257 | 8 | 233 | 47 | 85 | 60 | 52 | 0 | 0 | 17 | 0 | 101 | 5 | 3 | 0 |

GALVESTON, TEX.

[H=54 ft.; $h_t$=106 ft.; $h_r$=98 ft.; $h_a$=112 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 11.0 | SE. | 50 | NW. | 1 | 9 | 7 | 9 | 22 | 4 | 1 | 0 | 8 | 2 | 14 | 8 | 9 | 2 | 0 | 0 | 0 | 10 | 0 | 0 | 2 | 0 | 0 |
| February | 13.3 | SE. | 44 | NW. | 3 | 2 | 7 | 10 | 22 | 4 | 1 | 4 | 6 | 0 | 12 | 7 | 9 | 6 | 5 | 0 | 0 | 4 | 0 | 0 | 3 | 3 | 0 |
| March | 11.0 | SE. | 53 | SE. | 2 | 7 | 7 | 7 | 17 | 11 | 2 | 3 | 8 | 0 | 11 | 15 | 5 | 9 | 5 | 0 | 1 | 7 | 0 | 0 | 0 | 3 | 0 |
| April | 12.9 | SE. | 46 | N. | 3 | 6 | 4 | 8 | 29 | 6 | 0 | 1 | 6 | 0 | 12 | 12 | 6 | 7 | 6 | 0 | 0 | 3 | 0 | 0 | 0 | 6 | 0 |
| May | 12.5 | SE. | 60 | SW. | 3 | 7 | 3 | 10 | 34 | 3 | 1 | 1 | 3 | 0 | 15 | 8 | 8 | 8 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 6 | 0 |
| June | 10.5 | SE. | 40 | NE. | 1 | 3 | 7 | 3 | 34 | 8 | 2 | 2 | 1 | 0 | 12 | 17 | 1 | 7 | 6 | 0 | 0 | 0 | 0 | 3 | 0 | 9 | 0 |
| July | 11.0 | SE. | 68 | E. | 1 | 5 | 0 | 0 | 24 | 23 | 7 | 2 | 0 | 1 | 15 | 13 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 |
| August | 10.2 | SE. | 33 | W. | 0 | 6 | 9 | 8 | 14 | 11 | 10 | 2 | 1 | 1 | 15 | 13 | 3 | 9 | 7 | 0 | 0 | 0 | 0 | 8 | 0 | 6 | 0 |
| September | 10.1 | SE. | 34 | NW. | 0 | 15 | 5 | 1 | 26 | 2 | 0 | 3 | 8 | 0 | 21 | 7 | 2 | 6 | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 0 |
| October | 10.4 | SE. | 54 | NW. | 1 | 11 | 4 | 11 | 24 | 5 | 0 | 2 | 5 | 0 | 23 | 6 | 2 | 5 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 0 |
| November | 12.3 | SE. | 30 | SE. | 0 | 11 | 3 | 10 | 32 | 3 | 0 | 0 | 1 | 0 | 12 | 17 | 1 | 5 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 |
| December | 13.7 | SE. | 46 | NW. | 3 | 18 | 3 | 5 | 15 | 3 | 0 | 7 | 11 | 0 | 11 | 10 | 10 | 9 | 7 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 |
| Year | 11.6 | SE. | 68 | E. | 18 | 100 | 59 | 82 | 293 | 83 | 24 | 27 | 58 | 4 | 173 | 133 | 59 | 76 | 60 | 0 | 1 | 27 | 0 | 13 | 7 | 48 | 0 |

GRAND HAVEN, MICH.

[H=632 ft.; $h_t$=54 ft.; $h_r$=49 ft.; $h_a$=92 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 14.2 | SE. | 40 | N. | 1 | 10 | 6 | 6 | 11 | 9 | 8 | 5 | 7 | 0 | 5 | 7 | 19 | 12 | 9 | 9 | 0 | 2 | 15 | 0 | 23 | 2 | 0 |
| February | 14.2 | SW. | 45 | SW. | 2 | 4 | 9 | 6 | 6 | 8 | 10 | 5 | 8 | 0 | 2 | 9 | 17 | 13 | 11 | 10 | 0 | 2 | 12 | 0 | 27 | 0 | 0 |
| March | 11.7 | NW. | 40 | NW. | 1 | 7 | 3 | 10 | 8 | 2 | 6 | 9 | 17 | 0 | 7 | 8 | 16 | 14 | 8 | 10 | 0 | 0 | 4 | 0 | 30 | 0 | 0 |
| April | 13.7 | E. | 48 | SW. | 3 | 4 | 4 | 11 | 9 | 9 | 7 | 9 | 7 | 0 | 7 | 10 | 13 | 19 | 16 | 7 | 1 | 0 | 2 | 0 | 11 | 5 | 0 |
| May | 12.0 | W. | 43 | SW. | 1 | 3 | 8 | 7 | 3 | 11 | 10 | 10 | 10 | 0 | 10 | 11 | 10 | 11 | 10 | 1 | 1 | 1 | 0 | 0 | 3 | 8 | 0 |
| June | 8.8 | SW. | 28 | SW. | 0 | 4 | 8 | 8 | 6 | 11 | 9 | 6 | 8 | 0 | 8 | 14 | 8 | 16 | 13 | 0 | 0 | 1 | 0 | 0 | 0 | 8 | 0 |
| July | 10.0 | NW. | 35 | W. | 0 | 9 | 2 | 6 | 5 | 12 | 7 | 8 | 13 | 0 | 15 | 14 | 2 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| August | 9.5 | E. | 29 | N. | 0 | 8 | 2 | 11 | 9 | 12 | 2 | 6 | 12 | 0 | 16 | 9 | 6 | 9 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 7 | 0 |
| September | 9.5 | NW. | 30 | S. | 0 | 10 | 2 | 9 | 11 | 8 | 2 | 4 | 14 | 0 | 12 | 11 | 7 | 11 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 |
| October | 13.6 | W. | 46 | SW. | 1 | 7 | 3 | 9 | 12 | 7 | 2 | 14 | 8 | 0 | 8 | 13 | 10 | 6 | 5 | 1 | 0 | 1 | 0 | 0 | 6 | 1 | 2 |
| November | 14.6 | SE. | 50 | W. | 2 | 6 | 7 | 9 | 14 | 8 | 7 | 4 | 5 | 0 | 6 | 11 | 13 | 17 | 12 | 4 | 1 | 0 | 2 | 0 | 12 | 3 | 0 |
| December | 13.7 | W. | 52 | SW. | 2 | 4 | 1 | 12 | 8 | 0 | 7 | 26 | 4 | 0 | 0 | 1 | 30 | 25 | 20 | 22 | 0 | 0 | 22 | 0 | 27 | 0 | 0 |
| Year | 12.1 | NW. | 52 | SW. | 13 | 76 | 55 | 104 | 102 | 97 | 77 | 106 | 113 | 0 | 96 | 118 | 151 | 159 | 121 | 64 | 3 | 9 | 57 | 0 | 139 | 42 | 2 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

GRAND JUNCTION, COLO.

[$\phi$=39° 9′ N.; $\lambda$=108° 33′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | Cloudiness. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 25.410 | 25.841 | 24.949 | 25.0 | 32.4 | 38.1 | 22.3 | 30.2 | 53 | 7 | 21 | 26 | 84 | 76 | 0.116 | 0.139 | 0.66 | 0.55 | 4.2 | 6.1 | 6.8 |
| February | 25.345 | 25.847 | 24.776 | 27.9 | 38.3 | 43.3 | 25.8 | 34.6 | 52 | 16 | 20 | 22 | 72 | 51 | .109 | .117 | .34 | .20 | 4.1 | 4.8 | 5.3 |
| March | 25.269 | 25.617 | 24.925 | 33.8 | 50.9 | 55.1 | 31.6 | 43.4 | 64 | 21 | 23 | 22 | 63 | 32 | .120 | .114 | .02 | .02 | 3.6 | 4.4 | 4.4 |
| April | 25.297 | 25.882 | 24.891 | 38.5 | 56.1 | 61.5 | 35.2 | 48.4 | 78 | 19 | 28 | 24 | 66 | 34 | .152 | .129 | 1.14 | .73 | 3.7 | 5.2 | 5.4 |
| May | 25.248 | 25.543 | 24.936 | 47.3 | 68.0 | 71.8 | 44.6 | 58.2 | 83 | 29 | 30 | 24 | 52 | 21 | .169 | .133 | .45 | .24 | 3.4 | 4.7 | 4.9 |
| June | 25.337 | 25.498 | 25.053 | 60.1 | 84.1 | 88.0 | 57.4 | 72.7 | 98 | 47 | 36 | 34 | 42 | 18 | .215 | .196 | .10 | .07 | 1.8 | 2.7 | 3.2 |
| July | 25.309 | 25.570 | 25.103 | 66.3 | 88.2 | 92.3 | 64.4 | 78.4 | 100 | 57 | 46 | 43 | 50 | 25 | .320 | .294 | .50 | .23 | 2.7 | 3.1 | 3.1 |
| August | 25.424 | 25.586 | 25.248 | 65.4 | 81.7 | 87.8 | 64.5 | 76.2 | 99 | 61 | 53 | 52 | 66 | 39 | .410 | .395 | .86 | .22 | 3.7 | 5.2 | 5.3 |
| September | 25.451 | 25.751 | 25.170 | 54.0 | 71.7 | 77.2 | 52.0 | 64.6 | 87 | 39 | 42 | 42 | 67 | 38 | .287 | .284 | 1.13 | .52 | 3.3 | 3.9 | 3.7 |
| October | 25.434 | 25.799 | 25.163 | 43.4 | 63.2 | 70.5 | 40.0 | 55.2 | 84 | 28 | 27 | 27 | 54 | 27 | .150 | .150 | .04 | .02 | 1.9 | 1.9 | 2.6 |
| November | 25.425 | 25.795 | 25.008 | 32.7 | 45.4 | 52.0 | 29.6 | 40.8 | 68 | 20 | 24 | 28 | 71 | 53 | .128 | .151 | 1.05 | .46 | 3.4 | 4.8 | 5.4 |
| December | 25.439 | 25.870 | 24.976 | 12.5 | 20.6 | 26.3 | 7.9 | 17.1 | 43 | −15 | 9 | 14 | 83 | 75 | .070 | .081 | .67 | .24 | 4.6 | 4.9 | 5.5 |
| Year | 25.370 | 25.882 | 24.776 | 42.2 | 58.4 | 63.7 | 39.6 | 51.6 | 100 | −15 | 30 | 30 | 64 | 41 | .187 | .182 | 6.96 | .73 | 3.4 | 4.3 | 4.6 |

GRAND RAPIDS, MICH.

[$\phi$=42° 58′ N.; $\lambda$=85° 40′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.330 | 29.830 | 28.401 | 25.8 | 28.0 | 33.7 | 21.0 | 27.4 | 59 | 1 | 22 | 23 | 87 | 80 | 0.137 | 0.136 | 2.20 | 1.17 | 8.2 | 6.3 | 7.7 |
| February | 29.121 | 29.727 | 28.255 | 24.9 | 29.5 | 34.5 | 20.5 | 27.5 | 49 | 2 | 22 | 25 | 90 | 81 | .124 | .149 | 3.06 | 1.17 | 8.0 | 6.8 | 8.1 |
| March | 29.137 | 29.682 | 28.631 | 28.9 | 33.3 | 38.2 | 26.0 | 32.1 | 50 | 16 | 25 | 25 | 83 | 71 | .132 | .133 | 1.37 | .36 | 6.1 | 6.3 | 7.2 |
| April | 29.182 | 29.642 | 28.559 | 38.2 | 44.1 | 51.5 | 34.0 | 42.8 | 72 | 19 | 33 | 34 | 83 | 69 | .196 | .208 | 8.29 | 2.53 | 7.0 | 6.5 | 7.3 |
| May | 29.145 | 29.472 | 28.729 | 51.1 | 59.1 | 66.1 | 45.3 | 55.7 | 82 | 28 | 44 | 44 | 77 | 59 | .302 | .308 | 2.36 | 1.48 | 6.6 | 6.5 | 6.8 |
| June | 29.240 | 29.542 | 28.949 | 62.5 | 70.1 | 76.4 | 57.8 | 67.1 | 91 | 44 | 56 | 56 | 81 | 64 | .475 | .477 | 7.50 | 2.78 | 7.0 | 6.2 | 6.4 |
| July | 29.212 | 29.576 | 28.862 | 66.0 | 74.6 | 81.7 | 60.5 | 71.1 | 91 | 47 | 57 | 54 | 73 | 52 | .479 | .441 | .96 | .59 | 4.8 | 4.3 | 4.8 |
| August | 29.284 | 29.568 | 28.956 | 65.8 | 73.5 | 82.0 | 61.4 | 71.7 | 92 | 46 | 60 | 60 | 81 | 64 | .523 | .527 | 4.39 | 2.34 | 4.2 | 5.1 | 5.1 |
| September | 29.349 | 29.785 | 28.855 | 54.9 | 63.2 | 70.2 | 50.9 | 60.6 | 89 | 37 | 51 | 50 | 87 | 63 | .388 | .373 | 2.11 | 1.04 | 5.3 | 4.9 | 5.6 |
| October | 29.301 | 29.873 | 28.726 | 42.2 | 49.3 | 55.5 | 38.8 | 47.2 | 79 | 29 | 37 | 37 | 81 | 64 | .226 | .232 | 1.14 | .64 | 6.8 | 5.6 | 6.2 |
| November | 29.354 | 29.817 | 28.832 | 40.0 | 44.9 | 52.8 | 35.9 | 44.4 | 73 | 16 | 35 | 37 | 83 | 75 | .214 | .235 | 3.23 | 1.34 | 7.2 | 5.4 | 6.8 |
| December | 29.172 | 29.609 | 28.590 | 22.9 | 24.6 | 29.5 | 18.5 | 24.0 | 57 | − 4 | 21 | 21 | 91 | 88 | .116 | .119 | 3.10 | .76 | 9.7 | 8.9 | 9.1 |
| Year | 29.236 | 29.873 | 28.255 | 43.6 | 49.5 | 56.0 | 39.2 | 47.6 | 92 | − 4 | 39 | 39 | 83 | 69 | .276 | .277 | 39.71 | 2.78 | 6.7 | 6.1 | 6.8 |

GREEN BAY, WIS.

[$\phi$=44° 31′ N.; $\lambda$=88° 0′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.424 | 29.954 | 28.693 | 16.3 | 21.5 | 26.7 | 11.9 | 19.3 | 41 | −20 | 12 | 15 | 80 | 75 | 0.089 | 0.099 | 0.66 | 0.24 | 6.2 | 5.7 | 7.4 |
| February | 29.226 | 29.803 | 28.455 | 19.3 | 24.1 | 28.9 | 15.4 | 22.2 | 44 | − 1 | 15 | 19 | 81 | 80 | .093 | .106 | 1.49 | .44 | 8.2 | 7.9 | 8.2 |
| March | 29.243 | 29.781 | 28.632 | 24.5 | 31.7 | 36.3 | 22.6 | 29.4 | 47 | 5 | 19 | 24 | 79 | 72 | .106 | .128 | 1.63 | .79 | 6.5 | 6.1 | 6.9 |
| April | 29.256 | 29.682 | 28.586 | 34.2 | 39.5 | 45.6 | 31.0 | 38.3 | 59 | 18 | 29 | 30 | 79 | 69 | .159 | .168 | 4.00 | 1.50 | 7.4 | 7.9 | 7.8 |
| May | 29.214 | 29.500 | 28.672 | 48.0 | 57.1 | 62.5 | 44.1 | 53.3 | 80 | 28 | 41 | 44 | 76 | 63 | .265 | .302 | 4.28 | 1.44 | 6.9 | 7.0 | 6.9 |
| June | 29.318 | 29.654 | 29.016 | 61.4 | 70.3 | 76.0 | 56.6 | 66.3 | 93 | 45 | 54 | 57 | 78 | 64 | .439 | .483 | 4.16 | 1.43 | 6.4 | 6.8 | 6.2 |
| July | 29.284 | 29.675 | 28.841 | 65.1 | 74.9 | 81.3 | 59.4 | 70.4 | 95 | 50 | 58 | 58 | 77 | 58 | .487 | .499 | 1.04 | .47 | 5.5 | 5.6 | 5.7 |
| August | 29.352 | 29.646 | 29.041 | 65.7 | 74.0 | 80.8 | 61.9 | 71.4 | 94 | 46 | 59 | 60 | 80 | 64 | .511 | .542 | 1.24 | .40 | 5.5 | 6.7 | 6.3 |
| September | 29.423 | 29.962 | 28.922 | 53.8 | 62.0 | 68.9 | 50.8 | 59.8 | 84 | 37 | 49 | 52 | 84 | 70 | .368 | .403 | 2.68 | 1.04 | 6.2 | 6.3 | 6.1 |
| October | 29.353 | 29.968 | 28.613 | 40.3 | 46.9 | 54.1 | 37.5 | 45.8 | 80 | 26 | 35 | 37 | 82 | 69 | .214 | .235 | .95 | .38 | 6.3 | 5.6 | 6.8 |
| November | 29.407 | 29.940 | 28.801 | 37.6 | 42.1 | 48.7 | 34.1 | 41.4 | 65 | 15 | 33 | 36 | 84 | 78 | .200 | .221 | 2.55 | .62 | 7.7 | 6.0 | 7.8 |
| December | 29.265 | 29.708 | 28.713 | 15.3 | 18.5 | 23.6 | 10.5 | 17.0 | 50 | − 9 | 12 | 13 | 83 | 78 | .086 | .087 | 2.10 | .54 | 7.8 | 7.8 | 8.2 |
| Year | 29.314 | 29.968 | 28.455 | 40.1 | 46.9 | 52.8 | 36.3 | 44.6 | 95 | −20 | 35 | 37 | 80 | 70 | .251 | .273 | 26.78 | 1.50 | 6.7 | 6.6 | 7.0 |

HANNIBAL, MO.

[$\phi$=39° 41′ N.; $\lambda$=91° 20′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.574 | 30.024 | 28.625 | 25.8 | ..... | 37.5 | 21.4 | 29.4 | 77 | − 7 | 22 | ..... | 85 | ..... | 0.141 | ..... | 1.95 | 1.19 | 7.3 | ..... | 7.5 |
| February | 29.360 | 29.952 | 28.671 | 29.8 | ..... | 45.1 | 24.6 | 34.8 | 64 | 9 | 26 | ..... | 84 | ..... | .147 | ..... | 3.95 | 1.36 | 5.6 | ..... | 5.5 |
| March | 29.375 | 29.890 | 28.734 | 33.9 | ..... | 49.3 | 30.6 | 40.0 | 67 | 14 | 28 | ..... | 79 | ..... | .157 | ..... | 1.65 | .69 | 6.7 | ..... | 6.5 |
| April | 29.385 | 29.856 | 28.830 | 45.7 | ..... | 62.8 | 40.6 | 51.7 | 88 | 26 | 36 | ..... | 71 | ..... | .230 | ..... | 4.78 | 2.28 | 6.1 | ..... | 5.9 |
| May | 29.298 | 29.635 | 29.012 | 56.1 | ..... | 71.7 | 51.0 | 61.4 | 90 | 32 | 48 | ..... | 74 | ..... | .348 | ..... | 7.63 | 2.17 | 5.3 | ..... | 4.6 |
| June | 29.397 | 29.723 | 29.241 | 67.7 | ..... | 81.8 | 63.7 | 72.8 | 91 | 50 | 62 | ..... | 83 | ..... | .567 | ..... | 2.15 | .57 | 6.1 | ..... | 5.2 |
| July | 29.387 | 29.726 | 29.146 | 69.9 | ..... | 83.6 | 65.0 | 74.3 | 93 | 57 | 64 | ..... | 82 | ..... | .607 | ..... | 4.73 | 1.91 | 6.1 | ..... | 4.9 |
| August | 29.446 | 29.747 | 29.234 | 71.3 | ..... | 90.7 | 67.3 | 79.0 | 98 | 52 | 64 | ..... | 78 | ..... | .612 | ..... | .09 | .08 | 2.1 | ..... | 2.5 |
| September | 29.519 | 29.947 | 29.204 | 58.2 | ..... | 75.5 | 55.6 | 65.6 | 92 | 36 | 54 | ..... | 87 | ..... | .439 | ..... | 3.52 | 1.28 | 4.2 | ..... | 4.3 |
| October | 29.510 | 29.960 | 29.168 | 44.7 | ..... | 64.2 | 42.6 | 53.4 | 89 | 24 | 39 | ..... | 80 | ..... | .250 | ..... | 4.48 | 2.55 | 4.5 | ..... | 4.3 |
| November | 29.505 | 29.943 | 29.041 | 46.6 | ..... | 61.1 | 41.6 | 51.4 | 80 | 19 | 40 | ..... | 78 | ..... | .264 | ..... | 2.72 | 1.04 | 7.1 | ..... | 6.3 |
| December | 29.481 | 29.919 | 29.066 | 18.7 | ..... | 29.8 | 14.6 | 22.2 | 57 | − 7 | 16 | ..... | 87 | ..... | .104 | ..... | 2.72 | 1.42 | 6.5 | ..... | 6.4 |
| Year | 29.436 | 30.024 | 28.625 | 47.4 | ..... | 62.8 | 43.2 | 53.0 | 98 | − 7 | 42 | ..... | 81 | ..... | .322 | ..... | 40.37 | 2.55 | 5.6 | ..... | 5.3 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

GRAND JUNCTION, COLO.

[H=4,608 ft.; $h_t$=43 ft.; $h_r$=37 ft.; $h_a$=51 ft.]

| Month. | Wind. | | | | | | | | | | | | | | Number of days. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | By self-register. | | | | | Number of winds, 8 a. m. and 8 p. m. | | | | | | | | | | | | Precipitation. | | | | Maximum temp. | | 32° or | Electricity. | |
| | Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction of 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. | 32° or below. | 90° or above. | Minimum temperature below. | Thunderstorms. | Auroras. |
| | *Miles* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | |
| January | 4.0 | NW. | 28 | NW. | 0 | 2 | 4 | 1 | 11 | 2 | 2 | 11 | 29 | 0 | 7 | 6 | 18 | 7 | 2 | 6 | 0 | 7 | 9 | 0 | 30 | 0 | 0 |
| February | 5.3 | NW. | 34 | SW. | 0 | 3 | 1 | 6 | 6 | 0 | 7 | 11 | 21 | 1 | 9 | 11 | 8 | 6 | 2 | 4 | 0 | 0 | 0 | 0 | 26 | 0 | 0 |
| March | 5.1 | SE. | 27 | W. | 0 | 7 | 7 | 4 | 18 | 4 | 3 | 6 | 13 | 0 | 14 | 9 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 0 |
| April | 6.2 | NW. | 30 | NW. | 0 | 6 | 4 | 11 | 6 | 4 | 6 | 8 | 15 | 0 | 11 | 7 | 12 | 9 | 6 | 5 | 1 | 1 | 0 | 0 | 8 | 1 | 0 |
| May | 6.4 | NW. | 36 | S. | 0 | 7 | 1 | 14 | 8 | 2 | 6 | 12 | 12 | 0 | 11 | 14 | 6 | 5 | 3 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 0 |
| June | 5.9 | E. | 28 | SE. | 0 | 4 | 3 | 12 | 13 | 1 | 4 | 14 | 9 | 0 | 20 | 10 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 13 | 0 | 5 | 0 |
| July | 5.4 | E. | 28 | S. | 0 | 2 | 8 | 13 | 17 | 2 | 2 | 7 | 11 | 0 | 18 | 8 | 5 | 4 | 4 | 0 | 0 | 0 | 0 | 21 | 0 | 11 | 0 |
| August | 4.8 | E. | 30 | W. | 0 | 4 | 3 | 20 | 13 | 2 | 2 | 5 | 13 | 0 | 10 | 15 | 6 | 12 | 6 | 0 | 0 | 0 | 0 | 11 | 0 | 14 | 0 |
| September | 4.5 | E. | 24 | W. | 0 | 3 | 5 | 17 | 9 | 1 | 2 | 9 | 12 | 2 | 17 | 10 | 3 | 6 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 7 | 0 |
| October | 4.7 | E. | 33 | SW. | 0 | 8 | 3 | 6 | 12 | 3 | 4 | 9 | 16 | 1 | 23 | 6 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 |
| November | 4.2 | E. | 37 | SW. | 0 | 2 | 2 | 9 | 11 | 5 | 4 | 15 | 12 | 0 | 11 | 5 | 14 | 5 | 5 | 3 | 1 | 1 | 0 | 0 | 23 | 1 | 0 |
| December | 3.7 | NW. | 29 | E. | 0 | 8 | 3 | 8 | 6 | 2 | 0 | 7 | 28 | 0 | 12 | 6 | 13 | 10 | 7 | 9 | 0 | 0 | 24 | 0 | 30 | 0 | 0 |
| Year | 5.0 | NW. | 37 | SW. | 0 | 56 | 44 | 121 | 130 | 28 | 42 | 114 | 191 | 4 | 163 | 107 | 95 | 71 | 41 | 27 | 4 | 9 | 33 | 45 | 138 | 44 | 0 |

GRAND RAPIDS, MICH.

[H=707 ft.; $h_t$=127 ft.; $h_r$=121 ft.; $h_a$=162 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 12.8 | S. | 42 | W. | 1 | 6 | 4 | 5 | 2 | 20 | 7 | 8 | 10 | 0 | 4 | 9 | 18 | 8 | 4 | 4 | 0 | 2 | 14 | 0 | 25 | 1 | 0 |
| February | 13.0 | S. | 38 | SW. | 0 | 4 | 6 | 7 | 1 | 13 | 12 | 6 | 7 | 0 | 3 | 6 | 19 | 12 | 8 | 9 | 0 | 1 | 13 | 0 | 27 | 0 | 0 |
| March | 11.4 | NW. | 36 | NW. | 0 | 5 | 3 | 11 | 6 | 4 | 6 | 15 | 12 | 0 | 5 | 7 | 19 | 11 | 5 | 7 | 0 | 0 | 4 | 0 | 29 | 0 | 0 |
| April | 14.1 | W. | 52 | SW. | 6 | 6 | 3 | 12 | 9 | 4 | 6 | 14 | 5 | 1 | 2 | 12 | 16 | 18 | 14 | 7 | 1 | 1 | 1 | 0 | 12 | 4 | 0 |
| May | 12.1 | E. | 44 | SW. | 3 | 7 | 9 | 7 | 6 | 5 | 8 | 8 | 12 | 0 | 4 | 11 | 16 | 11 | 7 | 3 | 0 | 0 | 0 | 0 | 3 | 6 | 0 |
| June | 8.5 | E. | 29 | SW. | 0 | 12 | 4 | 15 | 2 | 3 | 6 | 12 | 6 | 0 | 6 | 11 | 13 | 15 | 13 | 0 | 0 | 0 | 0 | 1 | 0 | 7 | 0 |
| July | 9.4 | SW. | 34 | SW. | 0 | 9 | 2 | 4 | 3 | 8 | 16 | 5 | 15 | 0 | 9 | 14 | 8 | 6 | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 0 |
| August | 8.3 | E. | 35 | N. | 0 | 12 | 5 | 8 | 7 | 9 | 5 | 10 | 6 | 0 | 11 | 11 | 9 | 10 | 10 | 0 | 0 | 0 | 0 | 2 | 0 | 7 | 0 |
| September | 9.2 | NW. | 32 | W. | 0 | 9 | 5 | 7 | 10 | 6 | 5 | 8 | 10 | 0 | 10 | 9 | 11 | 8 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| October | 11.1 | W. | 42 | SW. | 1 | 7 | 4 | 4 | 15 | 7 | 6 | 15 | 4 | 0 | 10 | 6 | 15 | 7 | 6 | 1 | 0 | 0 | 0 | 0 | 5 | 0 | 1 |
| November | 13.1 | SE. | 44 | SW. | 1 | 5 | 8 | 8 | 11 | 12 | 8 | 5 | 3 | 0 | 4 | 11 | 15 | 14 | 11 | 3 | 0 | 0 | 1 | 0 | 12 | 3 | 0 |
| December | 12.0 | SW. | 52 | SW. | 2 | 2 | 2 | 10 | 5 | 6 | 19 | 14 | 4 | 0 | 2 | 2 | 27 | 20 | 16 | 17 | 0 | 1 | 23 | 0 | 28 | 0 | 0 |
| Year | 11.2 | W. | 52 | SW. | 14 | 84 | 55 | 98 | 77 | 97 | 104 | 120 | 94 | 1 | 70 | 109 | 186 | 140 | 106 | 51 | 1 | 5 | 56 | 4 | 141 | 34 | 1 |

GREEN BAY, WIS.

[H=617 ft.; $h_t$=49 ft.; $h_r$=43 ft.; $h_a$=86 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 11.9 | SW. | 47 | N. | 3 | 10 | 5 | 2 | 4 | 9 | 17 | 8 | 7 | 0 | 6 | 7 | 18 | 7 | 4 | 5 | 0 | 3 | 16 | 0 | 28 | 0 | 0 |
| February | 11.9 | SW. | 42 | N. | 1 | 8 | 11 | 2 | 5 | 6 | 15 | 4 | 5 | 0 | 1 | 6 | 21 | 11 | 9 | 11 | 0 | 2 | 17 | 0 | 28 | 0 | 0 |
| March | 10.0 | N. | 46 | NE. | 2 | 11 | 10 | 2 | 6 | 3 | 6 | 15 | 9 | 0 | 6 | 7 | 18 | 11 | 7 | 10 | 0 | 0 | 6 | 0 | 30 | 0 | 0 |
| April | 11.7 | NE. | 58 | NW. | 5 | 7 | 8 | 6 | 9 | 5 | 11 | 4 | 10 | 0 | 4 | 5 | 21 | 19 | 16 | 9 | 0 | 2 | 1 | 0 | 14 | 2 | 0 |
| May | 11.1 | NE. | 39 | W. | 0 | 4 | 20 | 5 | 8 | 2 | 14 | 7 | 2 | 0 | 7 | 9 | 15 | 10 | 10 | 1 | 0 | 0 | 0 | 0 | 4 | 5 | 0 |
| June | 8.7 | SW. | 30 | N. | 0 | 8 | 13 | 5 | 5 | 9 | 16 | 3 | 1 | 0 | 4 | 18 | 8 | 9 | 6 | 0 | 0 | 0 | 0 | 1 | 0 | 6 | 0 |
| July | 8.9 | SW. | 48 | N. | 2 | 7 | 7 | 3 | 7 | 11 | 15 | 6 | 6 | 0 | 9 | 11 | 11 | 6 | 6 | 0 | 1 | 0 | 0 | 1 | 0 | 4 | 0 |
| August | 8.2 | SE. | 35 | N. | 0 | 9 | 6 | 3 | 19 | 6 | 12 | 3 | 4 | 0 | 7 | 12 | 12 | 8 | 6 | 0 | 0 | 1 | 0 | 6 | 0 | 6 | 0 |
| September | 8.8 | SW. | 32 | NE. | 0 | 3 | 8 | 5 | 12 | 5 | 15 | 3 | 9 | 0 | 9 | 9 | 12 | 8 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| October | 11.1 | W. | 44 | W. | 1 | 8 | 2 | 5 | 8 | 9 | 13 | 11 | 6 | 0 | 6 | 10 | 15 | 6 | 5 | 2 | 0 | 2 | 0 | 0 | 10 | 1 | 0 |
| November | 11.2 | S. | 54 | W. | 4 | 5 | 5 | 3 | 11 | 11 | 12 | 5 | 8 | 0 | 3 | 7 | 20 | 11 | 9 | 5 | 0 | 1 | 4 | 0 | 13 | 1 | 0 |
| December | 10.4 | SW. | 48 | SW. | 2 | 3 | 3 | 5 | 3 | 1 | 24 | 13 | 10 | 0 | 2 | 7 | 22 | 16 | 10 | 14 | 0 | 0 | 26 | 0 | 27 | 0 | 0 |
| Year | 10.3 | SW. | 58 | NW. | 20 | 83 | 98 | 46 | 97 | 77 | 170 | 82 | 77 | 0 | 64 | 108 | 193 | 122 | 95 | 57 | 1 | 11 | 70 | 8 | 154 | 26 | 0 |

HANNIBAL, MO.

[H=534 ft.; $h_t$=75 ft.; $h_r$=68 ft.; $h_a$=109 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 10.2 | S. | 46 | NW. | 2 | 6 | 2 | 5 | 0 | 5 | 5 | 3 | 5 | 0 | 6 | 4 | 21 | 8 | 5 | 4 | 1 | 0 | 13 | 0 | 24 | 2 | 0 |
| February | 11.9 | SW. | 48 | SW. | 3 | 4 | 2 | 2 | 0 | 4 | 7 | 4 | 5 | 0 | 14 | 2 | 12 | 16 | 12 | 7 | 1 | 0 | 4 | 0 | 22 | 2 | 0 |
| March | 10.3 | NW. | 40 | SW. | 1 | 4 | 5 | 4 | 1 | 0 | 7 | 3 | 7 | 0 | 2 | 16 | 13 | 5 | 5 | 0 | 0 | 2 | 0 | 0 | 17 | 2 | 0 |
| April | 13.1 | SW. | 44 | S. | 3 | 2 | 3 | 2 | 5 | 1 | 9 | 6 | 2 | 0 | 8 | 8 | 14 | 11 | 10 | 0 | 2 | 1 | 0 | 0 | 6 | 7 | 0 |
| May | 10.2 | E. | 48 | SW. | 1 | 2 | 8 | 4 | 1 | 3 | 6 | 4 | 3 | 0 | 13 | 11 | 7 | 9 | 9 | 0 | 2 | 1 | 0 | 0 | 1 | 6 | 0 |
| June | 7.4 | SW. | 26 | SE. | 0 | 1 | 6 | 7 | 0 | 2 | 11 | 1 | 2 | 0 | 9 | 16 | 5 | 13 | 10 | 0 | 0 | 0 | 0 | 1 | 0 | 10 | 0 |
| July | 7.3 | SW. | 26 | NW. | 0 | 1 | 3 | 8 | 3 | 1 | 8 | 4 | 3 | 0 | 12 | 10 | 9 | 9 | 7 | 0 | 0 | 0 | 0 | 3 | 0 | 6 | 0 |
| August | 6.2 | SW. | 28 | N. | 0 | 5 | 2 | 4 | 2 | 1 | 13 | 1 | 1 | 2 | 22 | 8 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 19 | 0 | 2 | 0 |
| September | 6.8 | E. | 27 | W. | 0 | 1 | 3 | 7 | 7 | 1 | 6 | 2 | 3 | 0 | 17 | 3 | 10 | 10 | 9 | 0 | 0 | 1 | 0 | 2 | 0 | 5 | 0 |
| October | 9.1 | SW. | 33 | SW. | 0 | 1 | 4 | 8 | 1 | 0 | 9 | 4 | 4 | 0 | 15 | 7 | 9 | 12 | 7 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 0 |
| November | 11.3 | SW. | 36 | W. | 0 | 3 | 2 | 3 | 3 | 4 | 11 | 2 | 2 | 0 | 9 | 9 | 12 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 0 |
| December | 9.7 | W. | 42 | W. | 1 | 0 | 1 | 3 | 1 | 2 | 6 | 11 | 7 | 0 | 9 | 5 | 17 | 13 | 9 | 8 | 0 | 0 | 22 | 0 | 27 | 1 | 0 |
| Year | 9.5 | SW. | 48 | SW. | 11 | 30 | 41 | 57 | 24 | 24 | 98 | 45 | 44 | 2 | 136 | 99 | 130 | 113 | 92 | 19 | 6 | 5 | 39 | 25 | 107 | 49 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

HARRISBURG, PA.

[$\phi$=40° 16′ N.; $\lambda$=76° 52′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.752 | 30.262 | 28.859 | 28.2 | 32.4 | 38.0 | 24.3 | 31.2 | 55 | 5 | 22 | 23 | 78 | 69 | 0.126 | 0.131 | 1.83 | 0.60 | 6.8 | 5.6 | 6.7 |
| February | 29.553 | 30.071 | 28.943 | 34.4 | 39.1 | 45.8 | 30.4 | 38.1 | 67 | 11 | 27 | 29 | 75 | 68 | .162 | .174 | 4.13 | 1.26 | 6.6 | 6.1 | 7.0 |
| March | 29.472 | 30.053 | 28.547 | 34.0 | 39.4 | 44.9 | 31.0 | 38.0 | 65 | 22 | 26 | 26 | 70 | 60 | .144 | .144 | 2.82 | 1.22 | 4.8 | 5.4 | 5.8 |
| April | 29.664 | 30.254 | 29.279 | 44.2 | 52.1 | 59.8 | 40.3 | 50.0 | 84 | 26 | 34 | 38 | 69 | 63 | .208 | .249 | 2.67 | .80 | 5.6 | 5.7 | 5.9 |
| May | 29.541 | 29.876 | 29.088 | 57.5 | 64.5 | 71.4 | 52.5 | 62.0 | 89 | 38 | 44 | 46 | 64 | 54 | .305 | .327 | 2.40 | .85 | 6.0 | 5.4 | 5.7 |
| June | 29.594 | 29.862 | 29.293 | 67.8 | 72.5 | 78.8 | 62.0 | 70.4 | 90 | 52 | 58 | 61 | 73 | 70 | .504 | .561 | 4.26 | .71 | 5.6 | 6.2 | 6.3 |
| July | 29.567 | 29.878 | 29.192 | 69.1 | 76.2 | 83.4 | 63.5 | 73.4 | 94 | 54 | 56 | 55 | 64 | 50 | .460 | .453 | .86 | .68 | 3.4 | 4.9 | 4.6 |
| August | 29.635 | 29.961 | 29.177 | 66.5 | 75.1 | 81.4 | 62.5 | 72.0 | 96 | 52 | 56 | 55 | 72 | 51 | .467 | .441 | .81 | .39 | 4.8 | 4.8 | 5.0 |
| September | 29.723 | 30.058 | 29.459 | 60.0 | 67.0 | 73.6 | 56.8 | 65.2 | 82 | 44 | 52 | 51 | 75 | 59 | .402 | .404 | 2.62 | 1.52 | 4.0 | 4.3 | 4.1 |
| October | 29.705 | 30.176 | 29.222 | 45.1 | 51.9 | 59.3 | 42.4 | 50.8 | 79 | 30 | 37 | 42 | 74 | 69 | .232 | .273 | 2.37 | 1.18 | 3.6 | 3.6 | 4.4 |
| November | 29.804 | 30.290 | 29.234 | 42.5 | 48.9 | 56.7 | 39.7 | 48.2 | 75 | 29 | 35 | 36 | 74 | 63 | .212 | .232 | .41 | .16 | 5.7 | 4.2 | 5.6 |
| December | 29.579 | 30.065 | 28.904 | 27.3 | 30.4 | 35.1 | 24.5 | 29.8 | 56 | 10 | 18 | 19 | 67 | 62 | .099 | .111 | 2.98 | 1.80 | 6.9 | 4.7 | 5.6 |
| Year | 29.632 | 30.290 | 28.547 | 48.0 | 54.1 | 60.7 | 44.2 | 52.4 | 96 | 5 | 39 | 40 | 71 | 62 | .277 | .292 | 28.16 | 1.80 | 5.3 | 5.1 | 5.6 |

HARTFORD, CONN.

[$\phi$=41° 46′ N.; $\lambda$=72° 40′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.957 | 30.566 | 28.914 | 26.4 | 29.8 | 36.8 | 21.2 | 29.0 | 56 | — 2 | 21 | 22 | 79 | 71 | 0.127 | 0.126 | 2.80 | 1.03 | 7.4 | 6.2 | 7.7 |
| February | 29.773 | 30.252 | 28.909 | 28.1 | 33.4 | 40.0 | 24.4 | 32.2 | 56 | 1 | 22 | 24 | 76 | 68 | .126 | .138 | 5.47 | 1.47 | 7.6 | 4.9 | 7.0 |
| March | 29.640 | 30.212 | 28.728 | 31.1 | 36.3 | 42.1 | 28.0 | 35.0 | 55 | 17 | 23 | 26 | 70 | 66 | .125 | .144 | 3.64 | 1.62 | 6.1 | 4.8 | 5.7 |
| April | 29.888 | 30.453 | 29.455 | 43.0 | 47.8 | 55.7 | 37.9 | 46.8 | 77 | 23 | 36 | 39 | 76 | 74 | .219 | .253 | 7.21 | 3.73 | 6.1 | 5.0 | 6.0 |
| May | 29.760 | 30.130 | 29.408 | 54.3 | 59.2 | 66.8 | 48.2 | 57.5 | 84 | 36 | 46 | 47 | 76 | 68 | .324 | .333 | 1.99 | .38 | 6.9 | 5.6 | 6.3 |
| June | 29.796 | 30.066 | 29.587 | 65.6 | 69.8 | 77.8 | 58.7 | 68.2 | 92 | 44 | 54 | 56 | 66 | 64 | .427 | .475 | 2.23 | .77 | 6.5 | 5.7 | 6.0 |
| July | 29.749 | 30.091 | 29.261 | 67.9 | 71.5 | 81.1 | 60.4 | 70.8 | 93 | 51 | 56 | 56 | 68 | 59 | .470 | .455 | 1.59 | .80 | 4.8 | 4.1 | 4.9 |
| August | 29.842 | 30.215 | 29.290 | 64.3 | 69.5 | 78.8 | 58.3 | 68.6 | 93 | 46 | 57 | 58 | 78 | 68 | .476 | .501 | 3.35 | 1.36 | 5.8 | 4.9 | 5.9 |
| September | 29.936 | 30.333 | 29.590 | 57.9 | 62.8 | 71.7 | 53.3 | 62.5 | 82 | 43 | 53 | 53 | 84 | 72 | .412 | .419 | 3.83 | 1.55 | 6.6 | 4.8 | 6.5 |
| October | 29.857 | 30.367 | 29.450 | 45.3 | 52.2 | 60.7 | 41.2 | 51.0 | 82 | 28 | 36 | 39 | 73 | 61 | .233 | .252 | 1.40 | .71 | 4.7 | 4.2 | 5.7 |
| November | 29.978 | 30.567 | 29.373 | 41.3 | 45.2 | 53.1 | 36.5 | 44.8 | 74 | 25 | 34 | 34 | 75 | 64 | .211 | .210 | 2.01 | .96 | 7.3 | 4.4 | 6.8 |
| December | 29.706 | 30.331 | 28.815 | 24.5 | 28.9 | 34.3 | 22.0 | 28.2 | 52 | 0 | 18 | 20 | 72 | 67 | .098 | .108 | 2.83 | 1.29 | 5.0 | 3.9 | 4.8 |
| Year | 29.824 | 30.567 | 28.728 | 45.8 | 50.5 | 58.2 | 40.8 | 49.6 | 93 | — 2 | 38 | 40 | 74 | 67 | .271 | .284 | 38.35 | 3.73 | 6.2 | 4.9 | 6.1 |

HATTERAS, N. C.

[$\phi$=35° 15′ N.; $\lambda$=75° 40′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 30.130 | 30.447 | 29.311 | 47.1 | 49.9 | 57.4 | 43.7 | 50.6 | 72 | 25 | 44 | 46 | 88 | 88 | 0.295 | 0.332 | 3.05 | 1.97 | 4.7 | 3.4 | 4.9 |
| February | 30.047 | 30.459 | 29.499 | 50.1 | 52.9 | 59.4 | 45.8 | 52.6 | 69 | 28 | 46 | 49 | 84 | 85 | .326 | .354 | 3.40 | 1.68 | 4.2 | 2.8 | 3.6 |
| March | 29.901 | 30.385 | 29.264 | 50.7 | 51.4 | 58.5 | 45.9 | 52.2 | 69 | 37 | 43 | 46 | 77 | 83 | .297 | .323 | 1.80 | .56 | 4.4 | 3.6 | 4.4 |
| April | 30.086 | 30.585 | 29.764 | 61.0 | 60.3 | 67.9 | 55.7 | 61.8 | 77 | 43 | 54 | 56 | 80 | 86 | .445 | .465 | 7.95 | 2.98 | 4.3 | 4.7 | 3.8 |
| May | 29.955 | 30.277 | 29.628 | 68.1 | 67.4 | 74.0 | 62.5 | 68.2 | 84 | 53 | 61 | 62 | 80 | 83 | .561 | .564 | 1.42 | .49 | 4.2 | 3.7 | 3.7 |
| June | 30.021 | 30.291 | 29.696 | 77.0 | 74.5 | 81.2 | 70.9 | 76.0 | 86 | 63 | 73 | 71 | 87 | 90 | .810 | .771 | 4.17 | 1.88 | 3.6 | 5.3 | 3.7 |
| July | 29.989 | 30.240 | 29.653 | 76.9 | 75.0 | 82.3 | 71.0 | 76.6 | 86 | 64 | 70 | 70 | 81 | 85 | .754 | .743 | 2.50 | .79 | 3.8 | 3.7 | 3.4 |
| August | 29.997 | 30.266 | 29.533 | 77.7 | 75.3 | 83.2 | 71.5 | 77.4 | 88 | 68 | 71 | 70 | 82 | 84 | .774 | .745 | 4.99 | 1.61 | 3.6 | 3.9 | 3.3 |
| September | 30.044 | 30.232 | 29.778 | 72.3 | 71.0 | 77.6 | 68.1 | 72.8 | 85 | 57 | 66 | 66 | 80 | 85 | .639 | .652 | 1.35 | 1.04 | 4.8 | 4.4 | 4.6 |
| October | 30.107 | 30.454 | 29.704 | 62.2 | 61.9 | 69.4 | 56.8 | 63.1 | 79 | 45 | 52 | 54 | 72 | 76 | .411 | .432 | .41 | .23 | 2.4 | 1.4 | 2.1 |
| November | 30.189 | 30.540 | 29.565 | 56.8 | 58.3 | 64.9 | 52.8 | 58.8 | 78 | 40 | 52 | 53 | 83 | 82 | .403 | .418 | 2.24 | 1.27 | 3.3 | 2.5 | 3.3 |
| December | 29.994 | 30.432 | 29.327 | 40.4 | 43.1 | 50.5 | 37.6 | 44.0 | 69 | 20 | 35 | 38 | 81 | 83 | .214 | .246 | 2.15 | 1.55 | 3.6 | 2.7 | 3.8 |
| Year | 30.038 | 30.585 | 29.264 | 61.7 | 61.8 | 68.9 | 56.9 | 62.8 | 88 | 20 | 56 | 57 | 81 | 84 | .494 | .504 | 35.43 | 2.98 | 3.9 | 3.5 | 3.7 |

HAVRE, MONT.

[$\phi$=48° 34′ N.; $\lambda$=109° 40′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 27.279 | 27.995 | 26.545 | 2.6 | 9.6 | 16.8 | —6.2 | 5.3 | 50 | —40 | —1 | 5 | 84 | 82 | 0.063 | 0.081 | 1.30 | 0.61 | 3.9 | 6.0 | 5.7 |
| February | 27.247 | 27.830 | 26.889 | 12.0 | 20.0 | 26.2 | 7.8 | 17.0 | 59 | —27 | 9 | 15 | 86 | 81 | .081 | .103 | .43 | .29 | 4.2 | 6.1 | 5.1 |
| March | 27.311 | 27.828 | 26.838 | 22.7 | 37.1 | 42.5 | 20.2 | 31.4 | 63 | — 8 | 19 | 28 | 84 | 69 | .103 | .154 | .24 | .18 | 5.3 | 4.8 | 4.3 |
| April | 27.323 | 27.814 | 26.967 | 26.6 | 42.7 | 46.6 | 24.1 | 35.4 | 64 | 12 | 23 | 29 | 84 | 61 | .121 | .164 | .92 | .42 | 5.8 | 6.6 | 4.8 |
| May | 27.239 | 27.545 | 26.868 | 43.5 | 61.0 | 64.5 | 41.0 | 52.8 | 81 | 27 | 38 | 42 | 83 | 53 | .241 | .276 | 2.98 | .87 | 4.5 | 5.4 | 4.4 |
| June | 27.335 | 27.616 | 27.132 | 53.8 | 70.0 | 74.1 | 51.6 | 62.8 | 91 | 41 | 49 | 54 | 84 | 59 | .354 | .422 | 3.91 | 2.11 | 4.5 | 5.6 | 3.9 |
| July | 27.300 | 27.615 | 27.051 | 57.1 | 76.7 | 78.9 | 55.9 | 67.4 | 94 | 47 | 53 | 60 | 88 | 58 | .412 | .526 | 3.88 | 1.36 | 3.5 | 3.7 | 3.9 |
| August | 27.317 | 27.685 | 26.971 | 51.6 | 81.6 | 84.2 | 51.3 | 67.8 | 98 | 38 | 48 | 52 | 88 | 39 | .338 | .402 | .18 | .08 | 1.9 | 2.3 | 2.0 |
| September | 27.338 | 27.806 | 26.944 | 48.6 | 69.4 | 75.0 | 45.9 | 60.4 | 91 | 32 | 44 | 48 | 84 | 51 | .289 | .347 | .94 | .48 | 5.2 | 4.3 | 4.4 |
| October | 27.362 | 27.822 | 26.890 | 35.1 | 51.5 | 59.3 | 31.9 | 45.6 | 77 | 16 | 30 | 39 | 83 | 64 | .171 | .249 | .25 | .13 | 5.1 | 4.8 | 5.4 |
| November | 27.296 | 27.820 | 26.736 | 26.5 | 31.7 | 40.0 | 17.9 | 29.0 | 66 | —16 | 21 | 25 | 82 | 79 | .132 | .149 | 1.01 | .34 | 6.9 | 6.7 | 7.5 |
| December | 27.439 | 27.851 | 26.767 | 10.9 | 13.0 | 20.6 | 2.9 | 11.8 | 48 | —23 | 8 | 9 | 86 | 86 | .072 | .076 | .56 | .12 | 5.4 | 6.6 | 7.4 |
| Year | 27.316 | 27.995 | 26.545 | 32.6 | 47.0 | 52.4 | 28.7 | 40.6 | 98 | —40 | 28 | 34 | 85 | 65 | .198 | .246 | 16.60 | 2.11 | 4.7 | 5.2 | 4.9 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

## HARRISBURG, PA.

[H=374 ft.; $h_t$=94 ft.; $h_r$=88 ft.; $h_a$=104 ft.]

| Month. | Wind. | | | | | Number of winds, 8 a. m. and 8 p. m. | | | | | | | | | Number of days. | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | By self-register. | | | | | | | | | | | | | | | | | Precipitation. | | | | | | Maximum temp. | | | Electricity. | |
| | Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Clear. | Partly cloudy. | Cloudy. | 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | 32° or below. | 90° or above. | Minimum temperature 32° or below. | Thunderstorms. | Auroras. |
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 7.3 | E. | 36 | W. | 0 | 6 | 6 | 15 | 8 | 1 | 4 | 10 | 11 | 1 | 6 | 10 | 15 | 12 | 10 | 6 | 0 | 4 | 8 | 0 | 24 | 0 | 0 |
| February | 9.5 | W. | 42 | W. | 1 | 3 | 4 | 16 | 2 | 4 | 4 | 17 | 6 | 0 | 4 | 9 | 15 | 13 | 10 | 4 | 1 | 2 | 1 | 0 | 17 | 0 | 0 |
| March | 9.9 | W. | 40 | W. | 1 | 6 | 2 | 13 | 4 | 1 | 3 | 23 | 10 | 0 | 9 | 11 | 11 | 14 | 13 | 6 | 0 | 1 | 0 | 0 | 20 | 0 | 0 |
| April | 9.5 | E. | 42 | W. | 1 | 5 | 3 | 14 | 8 | 2 | 4 | 10 | 14 | 0 | 7 | 10 | 13 | 13 | 8 | 0 | 0 | 1 | 0 | 0 | 3 | 1 | 0 |
| May | 7.4 | W. | 34 | SW. | 0 | 4 | 7 | 10 | 6 | 5 | 3 | 14 | 13 | 0 | 8 | 13 | 10 | 8 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 0 |
| June | 5.3 | W. | 34 | NW. | 0 | 8 | 4 | 9 | 3 | 4 | 6 | 19 | 7 | 0 | 5 | 15 | 10 | 15 | 12 | 0 | 0 | 0 | 0 | 3 | 0 | 8 | 0 |
| July | 6.4 | NW. | 32 | SW. | 0 | 6 | 3 | 4 | 7 | 6 | 4 | 17 | 15 | 0 | 11 | 14 | 6 | 4 | 4 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 |
| August | 5.9 | W. | 28 | NW. | 0 | 1 | 9 | 9 | 5 | 8 | 5 | 13 | 12 | 0 | 13 | 8 | 10 | 7 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 2 | 0 |
| September | 6.3 | N. | 26 | NW. | 0 | 7 | 6 | 6 | 12 | 7 | 3 | 9 | 10 | 0 | 15 | 5 | 10 | 5 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| October | 6.4 | NW. | 28 | NW. | 0 | 7 | 3 | 4 | 3 | 2 | 9 | 16 | 18 | 0 | 16 | 7 | 8 | 6 | 4 | 0 | 1 | 1 | 0 | 0 | 1 | 2 | 0 |
| November | 7.9 | W. | 38 | W. | 0 | 11 | 3 | 5 | 5 | 7 | 7 | 12 | 10 | 0 | 10 | 8 | 12 | 5 | 4 | 1 | 0 | 1 | 0 | 0 | 4 | 0 | 0 |
| December | 8.7 | W. | 30 | E. | 0 | 0 | 2 | 11 | 1 | 0 | 3 | 28 | 17 | 0 | 9 | 10 | 12 | 6 | 5 | 5 | 0 | 0 | 14 | 0 | 25 | 0 | 0 |
| Year | 7.5 | W. | 42 | W. | 3 | 64 | 52 | 116 | 64 | 47 | 55 | 188 | 143 | 1 | 113 | 120 | 132 | 108 | 83 | 22 | 3 | 11 | 23 | 10 | 94 | 19 | 0 |

## HARTFORD, CONN.

[H=159 ft.; $h_t$=122 ft.; $h_r$=116 ft.; $h_a$=140 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 8.5 | N. | 32 | NW. | 0 | 17 | 6 | 0 | 2 | 9 | 10 | 2 | 16 | 0 | 4 | 8 | 19 | 15 | 10 | 8 | 0 | 4 | 11 | 0 | 25 | 0 | 0 |
| February | 9.0 | NW. | 42 | S. | 2 | 12 | 5 | 1 | 2 | 10 | 9 | 4 | 13 | 0 | 4 | 11 | 13 | 16 | 10 | 4 | 0 | 2 | 5 | 0 | 23 | 0 | 0 |
| March | 9.1 | NW. | 46 | E. | 1 | 7 | 1 | 0 | 3 | 6 | 7 | 7 | 30 | 1 | 12 | 7 | 12 | 12 | 10 | 7 | 0 | 1 | 2 | 0 | 23 | 1 | 1 |
| April | 9.7 | S. | 40 | S. | 2 | 10 | 4 | 3 | 1 | 14 | 7 | 2 | 19 | 0 | 6 | 13 | 11 | 14 | 14 | 1 | 0 | 0 | 0 | 0 | 7 | 1 | 0 |
| May | 8.3 | S. | 40 | S. | 1 | 15 | 6 | 2 | 2 | 14 | 9 | 3 | 11 | 0 | 8 | 8 | 15 | 16 | 10 | 0 | 1 | 0 | 0 | 0 | 0 | 5 | 0 |
| June | 7.1 | S. | 29 | NW. | 0 | 14 | 6 | 1 | 4 | 16 | 11 | 2 | 6 | 0 | 5 | 16 | 9 | 11 | 9 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 0 |
| July | 8.2 | S. | 28 | NW. | 0 | 6 | 2 | 1 | 3 | 20 | 10 | 3 | 17 | 0 | 10 | 17 | 4 | 7 | 4 | 0 | 0 | 1 | 0 | 2 | 0 | 4 | 0 |
| August | 6.3 | N. | 22 | SE. | 0 | 19 | 6 | 1 | 5 | 9 | 9 | 1 | 12 | 0 | 7 | 14 | 10 | 7 | 4 | 0 | 0 | 3 | 0 | 2 | 0 | 2 | 0 |
| September | 6.9 | S. | 30 | S. | 0 | 17 | 3 | 5 | 1 | 20 | 5 | 1 | 8 | 0 | 7 | 7 | 16 | 10 | 9 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| October | 6.9 | NW. | 27 | SW. | 0 | 10 | 0 | 2 | 3 | 16 | 10 | 7 | 14 | 0 | 11 | 9 | 11 | 8 | 5 | 0 | 0 | 4 | 0 | 0 | 3 | 2 | 1 |
| November | 8.8 | N. | 34 | NW. | 0 | 20 | 1 | 1 | 1 | 12 | 13 | 1 | 11 | 0 | 4 | 13 | 13 | 9 | 6 | 2 | 0 | 0 | 0 | 0 | 13 | 1 | 0 |
| December | 7.8 | NW. | 35 | NW. | 0 | 12 | 0 | 1 | 2 | 3 | 13 | 8 | 23 | 0 | 13 | 9 | 9 | 5 | 5 | 3 | 0 | 0 | 13 | 0 | 26 | 0 | 0 |
| Year | 8.0 | NW. | 46 | E. | 6 | 159 | 40 | 18 | 29 | 149 | 113 | 41 | 180 | 1 | 91 | 132 | 142 | 130 | 96 | 25 | 1 | 16 | 31 | 6 | 120 | 21 | 2 |

## HATTERAS, N. C.

[H=11 ft.; $h_t$=12 ft.; $h_r$=34 ft.; $h_a$=47 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 15.0 | NE. | 44 | NW. | 3 | 10 | 18 | 1 | 3 | 3 | 12 | 6 | 9 | 0 | 16 | 6 | 9 | 9 | 5 | 0 | 0 | 6 | 0 | 0 | 2 | 1 | 0 |
| February | 17.6 | SW. | 53 | NW. | 7 | 4 | 4 | 0 | 2 | 9 | 20 | 7 | 10 | 0 | 17 | 7 | 4 | 10 | 8 | 0 | 0 | 1 | 0 | 0 | 2 | 2 | 0 |
| March | 15.8 | SW. | 58 | NW. | 7 | 10 | 11 | 5 | 4 | 5 | 14 | 5 | 8 | 0 | 16 | 9 | 6 | 11 | 9 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 |
| April | 16.9 | SW. | 45 | N | 2 | 6 | 12 | 3 | 6 | 7 | 19 | 1 | 6 | 0 | 19 | 6 | 5 | 14 | 13 | 0 | 1 | 0 | 0 | 0 | 0 | 5 | 0 |
| May | 14.7 | SW. | 47 | S. | 1 | 2 | 10 | 4 | 3 | 8 | 24 | 3 | 8 | 0 | 20 | 7 | 4 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| June | 13.3 | SW. | 44 | W. | 2 | 1 | 10 | 2 | 4 | 7 | 30 | 5 | 1 | 0 | 18 | 8 | 4 | 9 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 |
| July | 14.1 | SW. | 39 | SW. | 0 | 7 | 11 | 0 | 4 | 3 | 31 | 3 | 3 | 0 | 17 | 11 | 3 | 13 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| August | 10.0 | NE. | 31 | N. | 0 | 3 | 19 | 10 | 4 | 4 | 14 | 5 | 3 | 0 | 20 | 9 | 2 | 12 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 |
| September | 14.4 | NE. | 49 | N. | 3 | 14 | 24 | 10 | 4 | 2 | 3 | 2 | 1 | 0 | 14 | 10 | 6 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| October | 14.3 | NE. | 45 | SW. | 1 | 13 | 18 | 0 | 2 | 2 | 11 | 3 | 11 | 0 | 24 | 6 | 1 | 3 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| November | 15.2 | N. | 49 | NW. | 2 | 16 | 10 | 2 | 1 | 3 | 13 | 7 | 8 | 0 | 21 | 5 | 4 | 8 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| December | 16.1 | NW. | 58 | W. | 6 | 12 | 6 | 3 | 1 | 0 | 8 | 11 | 21 | 0 | 20 | 6 | 5 | 7 | 4 | 2 | 0 | 0 | 1 | 0 | 6 | 0 | 0 |
| Year | 14.8 | SW. | 58 | W. | 34 | 98 | 153 | 40 | 38 | 53 | 199 | 60 | 89 | 0 | 222 | 90 | 53 | 106 | 81 | 2 | 1 | 9 | 1 | 0 | 10 | 38 | 0 |

## HAVRE, MONT.

[H=2,505 ft.; $h_t$=11 ft.; $h_r$=4 ft.; $h_a$=44 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 9.0 | SW. | 36 | SW. | 0 | 3 | 2 | 13 | 1 | 0 | 14 | 13 | 12 | 4 | 10 | 10 | 11 | 9 | 8 | 9 | 0 | 0 | 18 | 0 | 31 | 0 | 2 |
| February | 8.3 | E. | 36 | W. | 0 | 3 | 1 | 20 | 2 | 0 | 11 | 5 | 13 | 1 | 8 | 16 | 4 | 6 | 3 | 5 | 0 | 0 | 11 | 0 | 25 | 0 | 0 |
| March | 7.8 | E. | 35 | NE. | 0 | 8 | 6 | 16 | 3 | 3 | 8 | 7 | 9 | 2 | 13 | 15 | 3 | 4 | 3 | 4 | 0 | 0 | 5 | 0 | 31 | 0 | 0 |
| April | 9.1 | NW. | 34 | NW. | 0 | 13 | 3 | 12 | 2 | 0 | 5 | 9 | 16 | 0 | 10 | 15 | 5 | 8 | 6 | 7 | 0 | 0 | 3 | 0 | 28 | 0 | 1 |
| May | 10.7 | NW. | 42 | SW. | 1 | 2 | 7 | 10 | 8 | 0 | 11 | 10 | 14 | 0 | 15 | 13 | 3 | 11 | 9 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 1 |
| June | 7.5 | E. | 39 | SW. | 0 | 6 | 7 | 12 | 6 | 3 | 7 | 7 | 11 | 1 | 19 | 8 | 3 | 11 | 9 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| July | 7.6 | E. | 36 | SW. | 0 | 2 | 9 | 11 | 5 | 2 | 12 | 8 | 13 | 0 | 19 | 7 | 5 | 14 | 11 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 |
| August | 6.3 | NW. | 46 | SW. | 1 | 2 | 5 | 11 | 6 | 1 | 9 | 8 | 19 | 1 | 26 | 4 | 1 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 |
| September | 7.1 | SW. | 38 | SW. | 0 | 3 | 2 | 8 | 3 | 3 | 21 | 9 | 10 | 1 | 12 | 15 | 3 | 9 | 5 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 3 |
| October | 7.5 | E. | 36 | SW. | 0 | 5 | 3 | 13 | 2 | 2 | 16 | 13 | 8 | 0 | 11 | 12 | 8 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 18 | 0 | 1 |
| November | 8.0 | SW. | 46 | SW. | 1 | 3 | 4 | 16 | 0 | 3 | 17 | 6 | 11 | 0 | 3 | 11 | 16 | 11 | 8 | 9 | 0 | 1 | 11 | 0 | 25 | 0 | 0 |
| December | 9.9 | SW. | 43 | SW. | 1 | 1 | 4 | 10 | 1 | 0 | 16 | 12 | 18 | 0 | 5 | 7 | 19 | 18 | 7 | 8 | 0 | 0 | 22 | 0 | 30 | 0 | 1 |
| Year | 8.3 | NW. | 46 | SW. | 4 | 51 | 53 | 152 | 39 | 17 | 147 | 107 | 154 | 10 | 151 | 133 | 81 | 102 | 73 | 43 | 2 | 1 | 70 | 15 | 194 | 34 | 7 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

HELENA, MONT.

[$\phi$=46° 34′ N.; $\lambda$=112° 4′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | Cloudiness. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 25.663 | 26.289 | 25.084 | 8.8 | 15.9 | 21.3 | 2.3 | 11.8 | 51 | −30 | 3 | 7 | 76 | 68 | 0.064 | 0.079 | 1.38 | 0.46 | 4.4 | 6.6 | 6.2 |
| February | 25.662 | 26.095 | 25.368 | 20.3 | 27.9 | 32.9 | 16.0 | 24.4 | 50 | −11 | 14 | 16 | 74 | 62 | .086 | .101 | .41 | .17 | 5.3 | 6.9 | 7.2 |
| March | 25.736 | 26.110 | 25.413 | 27.4 | 38.5 | 42.6 | 23.7 | 33.2 | 57 | − 4 | 20 | 25 | 71 | 58 | .105 | .132 | .55 | .21 | 4.6 | 6.8 | 5.6 |
| April | 25.756 | 26.245 | 25.417 | 29.9 | 40.7 | 45.8 | 26.0 | 35.9 | 62 | 13 | 22 | 27 | 73 | 60 | .120 | .145 | 1.33 | .42 | 7.5 | 7.1 | 7.2 |
| May | 25.716 | 26.045 | 25.427 | 40.6 | 54.8 | 59.7 | 37.9 | 48.8 | 76 | 28 | 33 | 36 | 74 | 52 | .190 | .218 | 2.40 | .85 | 7.0 | 6.7 | 6.2 |
| June | 25.799 | 26.009 | 25.577 | 50.2 | 64.9 | 69.4 | 48.0 | 58.7 | 85 | 39 | 44 | 45 | 80 | 54 | .290 | .310 | 4.30 | 1.53 | 6.9 | 7.0 | 6.4 |
| July | 25.789 | 26.091 | 25.481 | 54.6 | 72.7 | 78.7 | 52.6 | 65.6 | 95 | 46 | 47 | 49 | 77 | 46 | .331 | .358 | 1.84 | .78 | 4.0 | 4.3 | 3.8 |
| August | 25.813 | 26.076 | 25.544 | 53.4 | 76.6 | 81.9 | 52.0 | 67.0 | 92 | 38 | 42 | 44 | 65 | 34 | .267 | .293 | .42 | .24 | 2.1 | 3.0 | 2.6 |
| September | 25.839 | 26.113 | 25.503 | 48.5 | 61.3 | 66.7 | 45.8 | 56.2 | 81 | 34 | 42 | 44 | 78 | 56 | .268 | .303 | 2.14 | .89 | 5.7 | 6.6 | 6.0 |
| October | 25.829 | 26.166 | 25.403 | 38.3 | 50.5 | 57.1 | 35.3 | 46.2 | 72 | 25 | 31 | 34 | 76 | 53 | .175 | .195 | .27 | .14 | 5.2 | 4.8 | 5.0 |
| November | 25.731 | 26.052 | 25.290 | 33.1 | 38.7 | 45.1 | 27.3 | 36.2 | 68 | − 2 | 25 | 25 | 75 | 60 | .141 | .142 | .51 | .18 | 5.9 | 6.4 | 6.9 |
| December | 25.826 | 26.163 | 25.226 | 13.0 | 16.8 | 22.6 | 7.5 | 15.0 | 42 | −14 | 9 | 11 | 83 | 78 | .071 | .077 | .59 | .22 | 6.7 | 5.8 | 6.2 |
| Year | 25.763 | 26.289 | 25.084 | 34.8 | 46.6 | 52.0 | 31.2 | 41.6 | 95 | −30 | 28 | 30 | 75 | 57 | .176 | .196 | 16.14 | 1.53 | 5.4 | 6.0 | 5.8 |

HONOLULU, HAWAII.

[$\phi$=21° 19′ N.; $\lambda$=157° 52′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.999 | 30.166 | 29.772 | 70.4 | 70.1 | 74.8 | 66.4 | 70.6 | 78 | 61 | 60 | 62 | 71 | 76 | 0.531 | 0.558 | 2.33 | 1.74 | 6.4 | 4.9 | 5.6 |
| February | 30.032 | 30.219 | 29.815 | 70.0 | 69.2 | 74.6 | 64.4 | 69.5 | 78 | 56 | 60 | 61 | 71 | 76 | .521 | .539 | 2.62 | .88 | 5.1 | 4.9 | 5.4 |
| March | 30.040 | 30.185 | 29.846 | 69.7 | 69.2 | 74.4 | 64.9 | 69.6 | 78 | 60 | 60 | 61 | 72 | 74 | .517 | .533 | 3.49 | .90 | 7.9 | 5.2 | 6.6 |
| April | 30.027 | 30.112 | 29.936 | 73.1 | 70.6 | 77.0 | 67.1 | 72.0 | 82 | 60 | 61 | 63 | 66 | 77 | .543 | .573 | 1.01 | .51 | 6.5 | 4.8 | 5.9 |
| May | 30.038 | 30.114 | 29.949 | 74.3 | 72.9 | 79.2 | 68.9 | 74.0 | 82 | 67 | 62 | 63 | 65 | 72 | .549 | .577 | .41 | .15 | 5.7 | 4.7 | 5.5 |
| June | 30.020 | 30.125 | 29.927 | 76.2 | 74.6 | 80.8 | 70.9 | 75.8 | 83 | 68 | 64 | 65 | 66 | 72 | .595 | .610 | .67 | .22 | 6.4 | 5.4 | 5.8 |
| July | 30.026 | 30.093 | 29.949 | 76.2 | 74.9 | 80.5 | 70.9 | 75.7 | 83 | 67 | 64 | 65 | 66 | 73 | .590 | .626 | 1.47 | .21 | 5.9 | 5.7 | 6.2 |
| August | 30.011 | 30.087 | 29.944 | 76.7 | 74.9 | 81.6 | 71.5 | 76.6 | 83 | 68 | 64 | 66 | 65 | 73 | .588 | .628 | .58 | .13 | 5.3 | 3.6 | 4.4 |
| September | 30.002 | 30.107 | 29.931 | 76.8 | 75.3 | 81.9 | 71.6 | 76.8 | 84 | 68 | 64 | 66 | 65 | 74 | .595 | .651 | .75 | .22 | 4.9 | 4.4 | 5.2 |
| October | 29.989 | 30.121 | 29.739 | 76.3 | 74.6 | 80.6 | 70.9 | 75.8 | 83 | 63 | 64 | 67 | 67 | 76 | .605 | .654 | .52 | .19 | 6.5 | 3.1 | 5.6 |
| November | 30.006 | 30.081 | 29.885 | 75.3 | 76.7 | 79.6 | 69.2 | 74.4 | 83 | 65 | 63 | 64 | 67 | 73 | .580 | .594 | .43 | .19 | 4.8 | 2.4 | 4.3 |
| December | 29.918 | 30.049 | 29.631 | 72.5 | 71.8 | 77.0 | 67.3 | 72.2 | 80 | 62 | 63 | 64 | 73 | 76 | .581 | .593 | 6.53 | 2.35 | 6.2 | 4.4 | 5.9 |
| Year | 30.009 | 30.219 | 29.631 | 74.0 | 72.9 | 78.5 | 68.7 | 73.6 | 84 | 56 | 62 | 64 | 68 | 74 | .566 | .595 | 20.81 | 2.35 | 6.0 | 4.5 | 5.5 |

HOUGHTON, MICH.

[$\phi$=47° 7′ N.; $\lambda$=88° 34′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.325 | 29.873 | 28.802 | 15.6 | ..... | 24.2 | 8.6 | 16.4 | 47 | −17 | 11 | ..... | 82 | ..... | 0.086 | ..... | 1.51 | 0.37 | 8.2 | ..... | 7.5 |
| February | 29.184 | 29.825 | 28.378 | 14.8 | ..... | 24.0 | 8.2 | 16.1 | 35 | −15 | 10 | ..... | 79 | ..... | .073 | ..... | 1.92 | .60 | 9.6 | ..... | 7.8 |
| March | 29.187 | 29.663 | 28.556 | 19.7 | ..... | 31.8 | 15.9 | 23.8 | 40 | − 8 | 16 | ..... | 86 | ..... | .096 | ..... | 1.23 | .25 | 7.7 | ..... | 6.6 |
| April | 29.216 | 29.650 | 28.700 | 29.5 | ..... | 39.9 | 25.6 | 32.8 | 58 | 6 | 25 | ..... | 83 | ..... | .136 | ..... | 2.04 | .78 | 6.6 | ..... | 6.3 |
| May | 29.175 | 29.533 | 28.602 | 44.4 | ..... | 56.4 | 37.9 | 47.2 | 80 | 22 | 38 | ..... | 80 | ..... | .238 | ..... | 2.66 | 1.30 | 5.2 | ..... | 5.5 |
| June | 29.269 | 29.594 | 29.004 | 58.7 | ..... | 72.5 | 49.8 | 61.2 | 93 | 35 | 49 | ..... | 72 | ..... | .363 | ..... | 1.17 | .51 | 3.2 | ..... | 3.9 |
| July | 29.224 | 29.617 | 28.713 | 62.5 | ..... | 74.7 | 55.9 | 65.3 | 85 | 47 | 55 | ..... | 77 | ..... | .434 | ..... | 7.75 | 1.57 | 4.5 | ..... | 4.3 |
| August | 29.294 | 29.597 | 29.047 | 62.7 | ..... | 74.4 | 57.9 | 66.2 | 90 | 44 | 57 | ..... | 81 | ..... | .472 | ..... | 1.58 | .45 | 7.1 | ..... | 5.2 |
| September | 29.357 | 29.974 | 28.841 | 52.2 | ..... | 64.7 | 47.2 | 56.0 | 84 | 34 | 48 | ..... | 87 | ..... | .346 | ..... | 2.15 | .73 | 5.3 | ..... | 4.9 |
| October | 29.239 | 29.866 | 28.464 | 41.1 | ..... | 51.7 | 38.8 | 45.2 | 85 | 27 | 37 | ..... | 84 | ..... | .227 | ..... | 2.83 | 1.02 | 6.6 | ..... | 6.9 |
| November | 29.340 | 29.841 | 28.699 | 34.9 | ..... | 43.5 | 30.7 | 37.1 | 65 | 20 | 30 | ..... | 83 | ..... | .173 | ..... | 3.95 | 1.39 | 7.6 | ..... | 8.2 |
| December | 29.186 | 29.739 | 28.913 | 21.5 | ..... | 28.2 | 17.5 | 21.8 | 47 | 4 | 17 | ..... | 81 | ..... | .098 | ..... | 2.61 | .64 | 9.0 | ..... | 9.2 |
| Year | 29.250 | 29.974 | 28.378 | 38.1 | ..... | 48.7 | 32.8 | 40.8 | 93 | −17 | 33 | ..... | 81 | ..... | .228 | ..... | 31.40 | 1.57 | 6.7 | ..... | 6.4 |

HOUSTON, TEX.

[$\phi$=29° 47′ N.; $\lambda$=95° 24′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| February | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| March | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| April | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| May | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| June | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| July | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| August | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| September | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| October | ..... | 30.170 | 29.714 | 62.7 | ..... | 82.7 | 60.8 | 71.8 | 92 | 47 | 60 | ..... | 92 | ..... | 0.531 | ..... | 8.22 | 4.00 | 2.3 | ..... | 3.3 |
| November | ..... | 30.363 | 29.735 | 62.1 | ..... | 76.8 | 58.8 | 67.8 | 84 | 38 | 58 | ..... | 88 | ..... | .523 | ..... | 2.68 | .95 | 5.6 | ..... | 6.0 |
| December | ..... | 30.259 | 29.632 | 43.0 | ..... | 58.7 | 40.0 | 49.4 | 80 | 25 | 38 | ..... | 82 | ..... | .255 | ..... | 2.32 | .71 | 6.2 | ..... | 5.5 |
| Year | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

## HELENA, MONT.

[H=4,110 ft.; $h_t$=8 ft.; $h_r$=3 ft.; $h_a$=56 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Aurora. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 5.1 | NW. | 37 | SW. | 0 | 10 | 1 | 3 | 2 | 7 | 16 | 11 | 12 | 0 | 5 | 15 | 11 | 12 | 9 | 10 | 0 | 0 | 18 | 0 | 31 | 0 | 0 |
| February | 6.7 | W. | 37 | W. | 0 | 3 | 5 | 1 | 0 | 4 | 13 | 18 | 12 | 0 | 2 | 11 | 15 | 7 | 4 | 6 | 0 | 0 | 9 | 0 | 26 | 0 | 0 |
| March | 5.7 | SW. | 35 | W. | 0 | 7 | 1 | 3 | 0 | 3 | 20 | 15 | 12 | 1 | 11 | 7 | 13 | 9 | 4 | 9 | 0 | 0 | 4 | 0 | 31 | 0 | 0 |
| April | 8.2 | W. | 35 | W. | 0 | 8 | 3 | 0 | 0 | 1 | 17 | 14 | 17 | 0 | 5 | 6 | 19 | 9 | 8 | 8 | 0 | 0 | 2 | 0 | 26 | 0 | 0 |
| May | 7.9 | W. | 34 | SW. | 0 | 5 | 3 | 1 | 3 | 2 | 14 | 22 | 12 | 0 | 6 | 15 | 10 | 16 | 12 | 4 | 1 | 0 | 0 | 0 | 6 | 6 | 1 |
| June | 6.1 | SW. | 33 | W. | 0 | 3 | 2 | 1 | 0 | 1 | 24 | 17 | 12 | 0 | 5 | 12 | 13 | 13 | 12 | 0 | 2 | 0 | 0 | 0 | 0 | 9 | 0 |
| July | 6.5 | SW. | 37 | W. | 0 | 3 | 4 | 6 | 0 | 1 | 27 | 16 | 5 | 0 | 17 | 9 | 5 | 9 | 8 | 0 | 0 | 0 | 0 | 3 | 0 | 12 | 0 |
| August | 5.9 | SW. | 44 | W. | 1 | 3 | 2 | 5 | 1 | 4 | 23 | 15 | 9 | 0 | 23 | 5 | 3 | 5 | 3 | 0 | 1 | 0 | 0 | 3 | 0 | 9 | 0 |
| September | 6.8 | SW. | 30 | W. | 0 | 0 | 4 | 2 | 3 | 4 | 19 | 24 | 4 | 0 | 9 | 8 | 13 | 9 | 7 | 0 | 2 | 0 | 0 | 0 | 0 | 3 | 0 |
| October | 6.9 | SW. | 35 | W. | 0 | 2 | 0 | 2 | 1 | 2 | 25 | 24 | 4 | 2 | 10 | 14 | 7 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 1 |
| November | 6.5 | SW. | 44 | W. | 2 | 5 | 2 | 2 | 6 | 3 | 21 | 13 | 8 | 0 | 4 | 12 | 14 | 7 | 5 | 1 | 2 | 0 | 4 | 0 | 21 | 1 | 0 |
| December | 6.1 | NW. | 36 | W. | 0 | 6 | 3 | 2 | 0 | 2 | 19 | 14 | 15 | 1 | 8 | 11 | 12 | 8 | 6 | 8 | 0 | 1 | 18 | 0 | 31 | 0 | 0 |
| Year | 6.5 | SW. | 44 | W. | 3 | 55 | 30 | 28 | 16 | 34 | 238 | 203 | 122 | 4 | 105 | 125 | 135 | 108 | 80 | 46 | 8 | 1 | 55 | 6 | 182 | 40 | 2 |

## HONOLULU, HAWAII.

[H=38 ft.; $h_t$=111 ft.; $h_r$=99 ft.; $h_a$=119 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 9.3 | NE. | 30 | SE. | 0 | 3 | 25 | 21 | 4 | 7 | 1 | 1 | 0 | 0 | 5 | 22 | 4 | 10 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 9.2 | NE. | 34 | W. | 0 | 4 | 28 | 18 | 2 | 0 | 2 | 1 | 1 | 0 | 7 | 13 | 8 | 12 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| March | 11.1 | NE. | 34 | NE. | 0 | 2 | 36 | 18 | 1 | 0 | 5 | 0 | 0 | 0 | 2 | 18 | 11 | 22 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 7.6 | NE. | 31 | NE. | 0 | 4 | 27 | 14 | 10 | 3 | 1 | 1 | 0 | 0 | 3 | 21 | 6 | 12 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 8.8 | NE. | 26 | NE. | 0 | 2 | 30 | 24 | 1 | 1 | 1 | 3 | 0 | 0 | 7 | 18 | 6 | 10 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 8.9 | NE. | 25 | NE. | 0 | 2 | 28 | 27 | 3 | 0 | 0 | 0 | 0 | 0 | 5 | 15 | 10 | 15 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| July | 9.2 | E. | 31 | NE. | 0 | 0 | 18 | 39 | 2 | 1 | 0 | 2 | 0 | 0 | 2 | 26 | 3 | 24 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 8.8 | NE. | 31 | NE. | 0 | 1 | 31 | 22 | 7 | 1 | 0 | 0 | 0 | 0 | 8 | 23 | 0 | 16 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| September | 8.3 | NE. | 26 | NE. | 0 | 0 | 25 | 26 | 4 | 1 | 1 | 2 | 1 | 0 | 8 | 20 | 2 | 17 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| October | 8.1 | NE. | 31 | SW. | 0 | 3 | 28 | 26 | 2 | 1 | 0 | 0 | 1 | 1 | 4 | 3 | 4 | 8 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| November | 6.8 | NE. | 25 | E. | 0 | 2 | 35 | 20 | 2 | 0 | 0 | 0 | 1 | 0 | 12 | 16 | 2 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 8.2 | NE. | 36 | NE. | 0 | 2 | 20 | 26 | 8 | 2 | 1 | 1 | 2 | 0 | 8 | 11 | 12 | 16 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| Year | 8.7 | NE. | 36 | NE. | 0 | 25 | 331 | 281 | 46 | 17 | 12 | 11 | 6 | 1 | 71 | 226 | 68 | 167 | 97 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 |

## HOUGHTON, MICH.

[H=668 ft.; $h_t$=66 ft.; $h_r$=57 ft.; $h_a$=74 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 8.2 | NW. | 38 | N. | 0 | 2 | 1 | 10 | 4 | 0 | 4 | 3 | 7 | 0 | 4 | 7 | 20 | 19 | 12 | 17 | 0 | 0 | 19 | 0 | 29 | 0 | 0 |
| February | 7.1 | NW. | 31 | N. | 0 | 1 | 3 | 8 | 2 | 0 | 0 | 3 | 10 | 1 | 1 | 11 | 16 | 12 | 7 | 12 | 0 | 0 | 25 | 0 | 28 | 0 | 0 |
| March | 6.5 | E. | 32 | NE. | 0 | 4 | 2 | 8 | 1 | 0 | 2 | 6 | 5 | 3 | 7 | 7 | 17 | 17 | 12 | 17 | 0 | 0 | 15 | 0 | 31 | 0 | 2 |
| April | 7.6 | E. | 30 | SE. | 0 | 4 | 2 | 8 | 4 | 0 | 0 | 7 | 5 | 0 | 7 | 11 | 12 | 11 | 10 | 11 | 0 | 0 | 5 | 0 | 28 | 0 | 0 |
| May | 8.0 | SE. | 32 | SE. | 0 | 1 | 0 | 8 | 8 | 0 | 0 | 8 | 6 | 0 | 9 | 14 | 8 | 11 | 6 | 8 | 0 | 0 | 1 | 0 | 5 | 0 | 1 |
| June | 6.7 | W. | 22 | W. | 0 | 0 | 0 | 13 | 2 | 0 | 0 | 11 | 4 | 0 | 13 | 14 | 3 | 7 | 4 | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 0 |
| July | 6.3 | W. | 33 | N. | 0 | 2 | 0 | 9 | 1 | 1 | 1 | 9 | 8 | 0 | 15 | 8 | 8 | 13 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 |
| August | 6.0 | E. | 22 | N. | 0 | 0 | 1 | 12 | 1 | 1 | 1 | 8 | 7 | 0 | 10 | 12 | 9 | 12 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| September | 6.2 | W. | 27 | W. | 0 | 3 | 1 | 7 | 4 | 0 | 2 | 5 | 7 | 1 | 12 | 10 | 8 | 10 | 8 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 |
| October | 7.1 | NW. | 35 | N. | 0 | 2 | 2 | 6 | 7 | 2 | 0 | 2 | 7 | 3 | 6 | 8 | 17 | 10 | 8 | 6 | 0 | 1 | 0 | 0 | 6 | 0 | 0 |
| November | 6.6 | NW. | 32 | W. | 0 | 3 | 1 | 7 | 7 | 2 | 1 | 3 | 5 | 1 | 3 | 6 | 21 | 16 | 13 | 10 | 0 | 1 | 7 | 0 | 17 | 1 | 0 |
| December | 7.4 | NW. | 30 | N. | 0 | 2 | 1 | 6 | 3 | 1 | 3 | 4 | 10 | 1 | 0 | 5 | 26 | 23 | 17 | 22 | 0 | 0 | 26 | 0 | 27 | 0 | 0 |
| Year | 7.0 | E. | 38 | N. | 0 | 24 | 14 | 102 | 44 | 7 | 14 | 69 | 81 | 10 | 87 | 113 | 165 | 161 | 113 | 98 | 0 | 6 | 98 | 1 | 171 | 14 | 3 |

## HOUSTON, TEX.

[H=138 ft.; $h_t$=111 ft.; $h_r$=104 ft.; $h_a$=121 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| February | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| March | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| April | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| June | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| July | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| August | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| September | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| October | 7.7 | SE. | 32 | SE. | 0 | 9 | 6 | 7 | 3 | 1 | 0 | 1 | 2 | 2 | 18 | 10 | 3 | 5 | 5 | 0 | 0 | 5 | 0 | 4 | 0 | 5 | 0 |
| November | 9.8 | SE. | 36 | SE. | 0 | 4 | 6 | 6 | 11 | 3 | 0 | 0 | 0 | 0 | 7 | 10 | 13 | 8 | 8 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 |
| December | 8.9 | N. | 42 | NW. | 1 | 8 | 4 | 4 | 4 | 2 | 1 | 0 | 7 | 1 | 10 | 11 | 10 | 9 | 7 | 1 | 0 | 0 | 0 | 0 | 7 | 3 | 0 |
| Year | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

HURON, S. DAK.

[$\phi$=44° 21′ N.; $\lambda$=98° 14′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 28.703 | 29.288 | 28.057 | 8.1 | 14.4 | 21.5 | 2.9 | 12.2 | 44 | −25 | 6 | 11 | 93 | 86 | 0.071 | 0.089 | 0.60 | 0.27 | 4.5 | 4.7 | 5.3 |
| February | 28.569 | 29.257 | 27.974 | 11.2 | 19.7 | 25.6 | 6.2 | 15.9 | 49 | −21 | 10 | 16 | 92 | 86 | .074 | .101 | 1.55 | .87 | 6.3 | 5.4 | 5.4 |
| March | 28.626 | 29.172 | 28.200 | 24.0 | 32.7 | 37.4 | 22.2 | 29.8 | 61 | 9 | 21 | 26 | 87 | 74 | .113 | .137 | .21 | .10 | 5.8 | 5.8 | 5.4 |
| April | 28.570 | 29.088 | 28.096 | 30.5 | 45.1 | 51.1 | 27.2 | 39.2 | 78 | 16 | 25 | 25 | 78 | 47 | .135 | .136 | .61 | .21 | 6.2 | 7.1 | 5.8 |
| May | 28.459 | 28.805 | 27.932 | 47.5 | 63.8 | 68.7 | 42.9 | 55.8 | 90 | 20 | 41 | 40 | 80 | 45 | .279 | .270 | 3.84 | 2.23 | 6.8 | 5.6 | 5.1 |
| June | 28.590 | 28.837 | 28.350 | 60.6 | 74.1 | 77.9 | 56.4 | 67.2 | 90 | 39 | 57 | 61 | 90 | 64 | .482 | .546 | .95 | .40 | 6.0 | 4.6 | 4.6 |
| July | 28.575 | 28.877 | 28.302 | 63.7 | 76.7 | 81.3 | 59.6 | 70.4 | 95 | 50 | 60 | 62 | 88 | 62 | .528 | .572 | 2.42 | .83 | 4.1 | 3.2 | 3.9 |
| August | 28.586 | 29.009 | 28.307 | 64.5 | 81.4 | 87.4 | 62.1 | 74.8 | 97 | 41 | 61 | 63 | 87 | 56 | .548 | .603 | 2.37 | 1.04 | 2.4 | 3.7 | 2.3 |
| September | 28.672 | 28.988 | 28.156 | 50.1 | 66.0 | 74.1 | 48.0 | 61.0 | 89 | 34 | 47 | 50 | 90 | 59 | .337 | .375 | 1.38 | .67 | 4.6 | 4.0 | 4.5 |
| October | 28.648 | 29.239 | 28.185 | 38.6 | 49.9 | 57.8 | 36.0 | 46.9 | 88 | 14 | 34 | 36 | 83 | 60 | .204 | .225 | 2.50 | 1.04 | 5.3 | 4.4 | 4.8 |
| November | 28.656 | 29.244 | 27.996 | 26.2 | 34.5 | 41.9 | 21.5 | 31.7 | 76 | 0 | 24 | 27 | 89 | 74 | .136 | .153 | 1.34 | .76 | 5.1 | 4.7 | 6.2 |
| December | 28.684 | 29.001 | 28.249 | 6.7 | 10.0 | 15.9 | 1.9 | 8.9 | 41 | −22 | 5 | 7 | 93 | 86 | .061 | .063 | 1.37 | .41 | 6.9 | 6.8 | 7.3 |
| Year | 28.612 | 29.288 | 27.932 | 36.0 | 47.4 | 53.4 | 32.2 | 42.8 | 97 | −25 | 33 | 35 | 88 | 67 | .247 | .272 | 19.14 | 2.23 | 5.3 | 5.0 | 5.0 |

INDEPENDENCE, CAL.

[$\phi$=36° 48′ N.; $\lambda$=118° 12′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 25.947 | 26.192 | 25.453 | 35.9 | 46.4 | 51.9 | 31.4 | 41.6 | 66 | 22 | 31 | 32 | 82 | 57 | 0.176 | 0.183 | 3.27 | 1.24 | 4.4 | 6.3 | 5.8 |
| February | 25.971 | 26.226 | 25.522 | 33.8 | 47.5 | 51.7 | 28.9 | 40.3 | 63 | 19 | 27 | 27 | 77 | 49 | .145 | .147 | 2.73 | 1.34 | 3.4 | 3.9 | 4.8 |
| March | 25.902 | 26.231 | 25.496 | 36.3 | 54.1 | 57.2 | 31.3 | 44.2 | 68 | 22 | 26 | 24 | 68 | 32 | .142 | .127 | .16 | .12 | 2.0 | 3.1 | 3.6 |
| April | 25.957 | 26.360 | 25.567 | 44.8 | 68.6 | 71.6 | 40.7 | 56.2 | 81 | 28 | 27 | 25 | 50 | 20 | .148 | .136 | .12 | .12 | .8 | 2.0 | 1.7 |
| May | 25.877 | 26.192 | 25.640 | 49.2 | 72.9 | 75.9 | 45.6 | 60.8 | 91 | 36 | 28 | 26 | 45 | 18 | .138 | .130 | T. | T. | .7 | 3.2 | 2.6 |
| June | 25.897 | 26.050 | 25.634 | 61.2 | 85.9 | 88.5 | 57.4 | 73.0 | 99 | 45 | 35 | 34 | 39 | 16 | .204 | .196 | T. | T. | .7 | 2.5 | 2.3 |
| July | 25.913 | 26.072 | 25.626 | 62.5 | 91.6 | 93.9 | 59.4 | 76.6 | 102 | 51 | 36 | 35 | 38 | 14 | .218 | .210 | .0 | .0 | .3 | .9 | 1.0 |
| August | 25.948 | 26.080 | 25.749 | 63.2 | 89.0 | 91.4 | 59.2 | 75.3 | 95 | 52 | 42 | 42 | 48 | 22 | .287 | .284 | .25 | .25 | 2.5 | 2.8 | 3.0 |
| September | 25.994 | 26.213 | 25.794 | 55.7 | 78.8 | 81.7 | 50.6 | 66.2 | 89 | 40 | 36 | 34 | 48 | 21 | .216 | .201 | .07 | .07 | 1.1 | 2.1 | 2.6 |
| October | 26.034 | 26.303 | 27.719 | 46.4 | 66.9 | 73.7 | 40.8 | 57.2 | 80 | 29 | 28 | 29 | 50 | 25 | .157 | .170 | .01 | .01 | .9 | 2.1 | 1.8 |
| November | 26.017 | 26.308 | 25.607 | 37.5 | 53.0 | 62.0 | 32.1 | 47.0 | 71 | 21 | 28 | 28 | 70 | 38 | .159 | .152 | .19 | .10 | 2.5 | 3.1 | 3.2 |
| December | 26.005 | 26.341 | 25.603 | 21.7 | 29.7 | 36.6 | 15.2 | 25.9 | 67 | 3 | 21 | 26 | 97 | 88 | .114 | .140 | 3.91 | 1.52 | 3.0 | 5.6 | 5.4 |
| Year | 25.955 | 26.360 | 25.453 | 45.7 | 65.4 | 69.7 | 41.0 | 55.4 | 102 | 3 | 30 | 30 | 59 | 33 | .177 | .173 | 10.71 | 1.52 | 1.9 | 3.1 | 3.2 |

INDIANAPOLIS, IND.

[$\phi$=39° 46′ N.; $\lambda$=86° 10′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.245 | 29.653 | 28.244 | 29.0 | 33.2 | 38.1 | 24.5 | 31.3 | 67 | 4 | 26 | 28 | 87 | 79 | 0.162 | 0.168 | 2.76 | 0.98 | 7.9 | 8.5 | 8.3 |
| February | 29.038 | 29.720 | 28.295 | 32.4 | 38.1 | 43.5 | 27.5 | 35.5 | 62 | 13 | 28 | 31 | 84 | 75 | .166 | .181 | 4.65 | 1.50 | 6.9 | 5.4 | 6.9 |
| March | 29.038 | 29.523 | 28.475 | 34.3 | 42.6 | 46.9 | 31.1 | 39.0 | 63 | 16 | 28 | 30 | 77 | 61 | .156 | .169 | 2.37 | 1.75 | 5.6 | 6.8 | 6.8 |
| April | 29.104 | 29.518 | 28.523 | 45.5 | 53.9 | 60.0 | 41.4 | 50.7 | 79 | 25 | 37 | 39 | 72 | 59 | .236 | .264 | 4.18 | 1.89 | 6.0 | 5.6 | 6.5 |
| May | 29.048 | 29.339 | 28.813 | 55.7 | 62.8 | 68.5 | 51.2 | 59.8 | 82 | 34 | 48 | 52 | 75 | 70 | .346 | .406 | 6.01 | 1.41 | 5.5 | 5.7 | 6.2 |
| June | 29.120 | 29.383 | 28.850 | 67.6 | 74.8 | 81.1 | 63.1 | 72.1 | 89 | 49 | 61 | 62 | 81 | 67 | .556 | .576 | 5.21 | 1.06 | 6.0 | 6.4 | 6.3 |
| July | 29.116 | 29.475 | 28.874 | 68.9 | 75.3 | 81.0 | 63.5 | 72.2 | 92 | 55 | 61 | 61 | 77 | 62 | .553 | .545 | 5.42 | 1.91 | 5.0 | 6.2 | 5.7 |
| August | 29.164 | 29.435 | 28.860 | 68.8 | 78.8 | 85.0 | 64.8 | 74.9 | 93 | 53 | 62 | 63 | 81 | 60 | .580 | .600 | 2.80 | 1.20 | 3.1 | 3.7 | 3.9 |
| September | 29.230 | 29.559 | 28.698 | 57.3 | 68.3 | 74.2 | 54.4 | 64.3 | 87 | 38 | 52 | 54 | 82 | 60 | .403 | .431 | 2.15 | .53 | 3.8 | 3.7 | 4.3 |
| October | 29.220 | 29.686 | 28.771 | 43.6 | 53.8 | 60.1 | 41.0 | 50.6 | 78 | 26 | 36 | 38 | 76 | 57 | .227 | .241 | 3.23 | 1.18 | 3.6 | 4.2 | 4.4 |
| November | 29.270 | 29.586 | 28.771 | 46.2 | 51.9 | 59.6 | 42.3 | 51.0 | 76 | 26 | 39 | 39 | 76 | 64 | .258 | .260 | 3.30 | 1.37 | 6.6 | 4.0 | 5.4 |
| December | 29.138 | 29.597 | 28.600 | 20.7 | 24.8 | 30.5 | 16.3 | 23.4 | 60 | − 8 | 17 | 20 | 87 | 80 | .111 | .120 | 2.90 | .70 | 7.1 | 6.1 | 7.0 |
| Year | 29.144 | 29.720 | 28.244 | 47.5 | 54.9 | 60.7 | 43.4 | 52.1 | 93 | − 8 | 41 | 43 | 80 | 66 | .313 | .330 | 44.98 | 1.91 | 5.6 | 5.5 | 6.0 |

IOLA, KANS.

[$\phi$=37° 55′ N.; $\lambda$=95° 25′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.087 | 29.505 | 28.547 | 29.0 | ..... | 40.5 | 23.9 | 32.2 | 70 | − 6 | 26 | .... | 86 | .... | 0.165 | ..... | 0.64 | 0.22 | 7.6 | ..... | 8.4 |
| February | 28.903 | 29.425 | 28.345 | 29.8 | ..... | 50.8 | 26.1 | 38.4 | 68 | 4 | 24 | .... | 80 | .... | .140 | ..... | 1.63 | .78 | 5.0 | ..... | 5.4 |
| March | 28.907 | 29.390 | 28.415 | 35.9 | ..... | 54.7 | 33.4 | 44.0 | 75 | 23 | 30 | .... | 80 | .... | .172 | ..... | 3.60 | 1.99 | 5.0 | ..... | 5.5 |
| April | 28.898 | 29.482 | 28.332 | 48.0 | ..... | 67.0 | 42.2 | 54.6 | 86 | 29 | 40 | .... | 74 | .... | .260 | ..... | 4.19 | 1.58 | 5.4 | ..... | 5.7 |
| May | 28.831 | 29.139 | 28.607 | 57.1 | ..... | 75.0 | 51.6 | 63.3 | 90 | 29 | 50 | .... | 76 | .... | .376 | ..... | 5.67 | 2.17 | 5.2 | ..... | 5.4 |
| June | 28.932 | 29.166 | 28.775 | 68.2 | ..... | 83.4 | 64.8 | 74.1 | 90 | 58 | 65 | .... | 89 | .... | .616 | ..... | 6.41 | 2.33 | 6.5 | ..... | 5.5 |
| July | 28.918 | 29.182 | 28.668 | 72.0 | ..... | 88.5 | 68.6 | 78.6 | 95 | 68 | 67 | .... | 86 | .... | .669 | ..... | 5.15 | 1.78 | 5.0 | ..... | 4.0 |
| August | 28.981 | 29.286 | 28.775 | 71.4 | ..... | 91.9 | 68.5 | 80.2 | 104 | 53 | 65 | .... | 81 | .... | .628 | ..... | 1.52 | .70 | 3.3 | ..... | 3.3 |
| September | 29.026 | 29.390 | 28.646 | 61.0 | ..... | 85.2 | 58.5 | 71.8 | 99 | 36 | 56 | .... | 84 | .... | .483 | ..... | 1.72 | 1.05 | 3.7 | ..... | 3.6 |
| October | 29.012 | 29.363 | 28.738 | 48.1 | ..... | 71.7 | 44.4 | 58.0 | 91 | 26 | 42 | .... | 80 | .... | .280 | ..... | 1.90 | .75 | 4.0 | ..... | 4.1 |
| November | 29.020 | 29.413 | 28.675 | 45.5 | ..... | 61.8 | 41.9 | 51.8 | 82 | 22 | 41 | .... | 85 | .... | .278 | ..... | 3.68 | 1.04 | 6.1 | ..... | 6.9 |
| December | 29.039 | 29.331 | 28.627 | 20.1 | ..... | 33.1 | 15.5 | 24.3 | 57 | − 2 | 16 | .... | 84 | .... | .103 | ..... | 1.73 | .96 | 4.5 | ..... | 4.8 |
| Year | 28.963 | 29.505 | 28.332 | 48.8 | ..... | 67.0 | 45.0 | 55.9 | 104 | − 6 | 44 | .... | 82 | ..... | .348 | ..... | 37.84 | 2.33 | 5.1 | .... | 5.1 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

HURON, S. DAK.

[H=1,306 ft.; $h_t$=56 ft.; $h_r$=52 ft.; $h_a$=67 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 12.8 | NW. | 56 | N. | 3 | 6 | 0 | 5 | 17 | 8 | 7 | 2 | 17 | 0 | 13 | 3 | 15 | 7 | 4 | 7 | 0 | 1 | 18 | 0 | 31 | 0 | 1 |
| February | 11.2 | NW. | 48 | NW. | 1 | 15 | 2 | 2 | 11 | 8 | 2 | 5 | 11 | 0 | 10 | 6 | 12 | 7 | 4 | 7 | 0 | 0 | 16 | 0 | 28 | 0 | 0 |
| March | 12.1 | NW. | 42 | NW. | 1 | 17 | 3 | 6 | 13 | 2 | 1 | 2 | 18 | 0 | 10 | 7 | 14 | 8 | 2 | 7 | 0 | 1 | 9 | 0 | 30 | 0 | 0 |
| April | 14.3 | NW. | 49 | NW. | 3 | 9 | 5 | 3 | 12 | 7 | 1 | 7 | 16 | 0 | 9 | 9 | 12 | 7 | 4 | 5 | 0 | 1 | 0 | 0 | 23 | 0 | 0 |
| May | 13.0 | NW. | 46 | S. | 3 | 6 | 6 | 5 | 17 | 4 | 3 | 5 | 16 | 0 | 10 | 13 | 8 | 13 | 11 | 0 | 1 | 0 | 0 | 1 | 5 | 3 | 0 |
| June | 9.7 | SE. | 37 | SW. | 0 | 9 | 7 | 6 | 19 | 12 | 4 | 0 | 3 | 0 | 14 | 9 | 7 | 10 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 |
| July | 10.4 | SE. | 69 | NW. | 2 | 8 | 2 | 6 | 21 | 10 | 2 | 5 | 8 | 0 | 17 | 9 | 5 | 13 | 9 | 0 | 1 | 1 | 0 | 7 | 0 | 5 | 0 |
| August | 10.7 | S. | 38 | S. | 0 | 13 | 6 | 7 | 20 | 10 | 0 | 1 | 5 | 0 | 24 | 6 | 1 | 6 | 5 | 0 | 0 | 0 | 0 | 12 | 0 | 6 | 1 |
| September | 10.3 | SE. | 36 | S. | 0 | 7 | 0 | 5 | 23 | 9 | 0 | 6 | 10 | 0 | 15 | 6 | 9 | 7 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 0 |
| October | 13.2 | NW. | 37 | N. | 0 | 7 | 4 | 5 | 15 | 5 | 0 | 7 | 19 | 0 | 13 | 8 | 10 | 5 | 5 | 0 | 0 | 1 | 1 | 0 | 11 | 1 | 1 |
| November | 11.4 | NW. | 40 | S. | 1 | 8 | 5 | 1 | 16 | 8 | 0 | 5 | 17 | 0 | 8 | 10 | 12 | 8 | 5 | 8 | 0 | 3 | 9 | 0 | 23 | 0 | 0 |
| December | 11.7 | NW. | 40 | N. | 1 | 9 | 2 | 2 | 7 | 2 | 2 | 9 | 29 | 0 | 3 | 11 | 17 | 15 | 9 | 15 | 0 | 1 | 28 | 0 | 31 | 0 | 0 |
| Year | 11.7 | SE. | 69 | NW. | 15 | 114 | 42 | 53 | 191 | 85 | 22 | 54 | 169 | 0 | 146 | 97 | 122 | 106 | 68 | 49 | 3 | 9 | 81 | 20 | 182 | 25 | 3 |

INDEPENDENCE, CAL.

[H=3,910 ft.; $h_t$=11 ft.; $h_r$=4 ft.; $h_a$=42 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 5.5 | S. | 38 | S. | 0 | 8 | 1 | 2 | 4 | 19 | 7 | 9 | 12 | 0 | 6 | 15 | 10 | 10 | 7 | 1 | 0 | 0 | 0 | 0 | 17 | 0 | 0 |
| February | 7.0 | NW. | 42 | W. | 1 | 11 | 0 | 0 | 1 | 14 | 5 | 7 | 14 | 4 | 12 | 10 | 6 | 6 | 5 | 5 | 0 | 0 | 0 | 0 | 24 | 0 | 0 |
| March | 9.5 | S. | 48 | N. | 1 | 17 | 0 | 0 | 3 | 22 | 5 | 2 | 11 | 2 | 18 | 10 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 |
| April | 8.9 | N. | 36 | N. | 0 | 22 | 2 | 0 | 9 | 4 | 0 | 9 | 13 | 1 | 25 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 |
| May | 8.4 | NW. | 27 | W. | 0 | 18 | 0 | 1 | 6 | 6 | 2 | 4 | 25 | 0 | 23 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| June | 8.2 | NW. | 36 | SE. | 0 | 6 | 2 | 1 | 8 | 8 | 2 | 16 | 17 | 0 | 24 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 |
| July | 6.9 | NW. | 26 | S. | 0 | 4 | 1 | 2 | 9 | 14 | 1 | 8 | 19 | 4 | 28 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 1 | 0 |
| August | 5.9 | S. | 24 | S. | 0 | 6 | 0 | 0 | 6 | 26 | 6 | 7 | 10 | 1 | 17 | 11 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 25 | 0 | 4 | 0 |
| September | 6.5 | S. | 36 | S. | 0 | 6 | 1 | 0 | 4 | 21 | 6 | 5 | 17 | 0 | 19 | 10 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| October | 5.1 | S. | 35 | SE. | 0 | 8 | 1 | 2 | 5 | 17 | 5 | 4 | 16 | 4 | 26 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| November | 6.0 | N. | 36 | S. | 0 | 14 | 2 | 1 | 5 | 11 | 5 | 5 | 11 | 6 | 18 | 8 | 4 | 4 | 1 | 2 | 0 | 0 | 0 | 0 | 14 | 1 | 0 |
| December | 6.2 | NW. | 36 | S. | 0 | 19 | 0 | 1 | 2 | 4 | 0 | 6 | 26 | 4 | 11 | 8 | 12 | 11 | 7 | 8 | 0 | 0 | 8 | 0 | 30 | 0 | 0 |
| Year | 7.0 | NW. | 48 | N. | 2 | 139 | 10 | 10 | 62 | 166 | 44 | 82 | 191 | 26 | 227 | 97 | 41 | 39 | 25 | 16 | 0 | 0 | 8 | 66 | 111 | 8 | 0 |

INDIANAPOLIS, IND.

[H=822 ft.; $h_t$=154 ft.; $h_r$=146 ft.; $h_a$=164 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 11.4 | S. | 39 | SW. | 0 | 10 | 3 | 5 | 7 | 15 | 10 | 3 | 9 | 0 | 4 | 3 | 24 | 15 | 11 | 8 | 0 | 2 | 11 | 0 | 23 | 2 | 0 |
| February | 12.5 | SW. | 43 | SW. | 1 | 1 | 6 | 3 | 7 | 11 | 14 | 9 | 5 | 0 | 5 | 12 | 11 | 16 | 11 | 7 | 0 | 1 | 5 | 0 | 20 | 1 | 0 |
| March | 11.8 | NW. | 43 | S. | 3 | 5 | 12 | 1 | 6 | 8 | 8 | 8 | 14 | 0 | 6 | 9 | 16 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 17 | 2 | 0 |
| April | 13.5 | S. | 56 | S. | 5 | 3 | 7 | 6 | 7 | 15 | 4 | 11 | 7 | 0 | 7 | 9 | 14 | 11 | 10 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 |
| May | 11.1 | NE. | 44 | W. | 1 | 8 | 13 | 5 | 5 | 14 | 7 | 8 | 2 | 0 | 8 | 9 | 14 | 14 | 12 | 0 | 2 | 0 | 0 | 0 | 0 | 9 | 0 |
| June | 7.7 | SW. | 40 | SW. | 1 | 7 | 11 | 4 | 4 | 11 | 14 | 3 | 6 | 0 | 5 | 17 | 8 | 14 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 |
| July | 8.3 | NE. | 38 | NW. | 0 | 12 | 13 | 3 | 5 | 6 | 11 | 5 | 7 | 0 | 9 | 13 | 9 | 13 | 10 | 0 | 0 | 0 | 0 | 3 | 0 | 9 | 0 |
| August | 7.0 | NE. | 58 | S. | 1 | 13 | 15 | 6 | 5 | 6 | 11 | 1 | 5 | 0 | 14 | 12 | 5 | 9 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 |
| September | 8.4 | NE. | 42 | E. | 1 | 15 | 13 | 5 | 10 | 6 | 5 | 1 | 5 | 0 | 15 | 9 | 6 | 9 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| October | 10.0 | S. | 37 | SE. | 0 | 9 | 7 | 5 | 10 | 7 | 9 | 8 | 5 | 2 | 15 | 6 | 10 | 8 | 7 | 0 | 0 | 2 | 0 | 0 | 3 | 1 | 0 |
| November | 11.8 | S. | 40 | S. | 1 | 3 | 12 | 3 | 12 | 13 | 9 | 6 | 2 | 0 | 10 | 8 | 12 | 12 | 8 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 0 |
| December | 11.8 | SW. | 48 | SW. | 1 | 0 | 2 | 4 | 11 | 3 | 20 | 16 | 6 | 0 | 6 | 8 | 17 | 11 | 8 | 5 | 0 | 1 | 19 | 0 | 26 | 0 | 0 |
| Year | 10.4 | SW. | 58 | S. | 15 | 86 | 114 | 50 | 89 | 115 | 122 | 79 | 73 | 2 | 104 | 115 | 146 | 138 | 111 | 20 | 2 | 6 | 35 | 6 | 97 | 52 | 0 |

IOLA, KANS.

[H=984 ft.; $h_t$=11 ft.; $h_r$=3 ft.; $h_a$=50 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 10.0 | S. | 44 | NW. | 2 | 7 | 5 | 1 | 4 | 8 | 2 | 1 | 3 | 0 | 2 | 6 | 23 | 8 | 4 | 4 | 0 | 2 | 11 | 0 | 23 | 2 | 0 |
| February | 10.4 | S. | 35 | NW. | 0 | 6 | 1 | 0 | 3 | 9 | 2 | 3 | 4 | 0 | 10 | 8 | 10 | 10 | 6 | 3 | 0 | 0 | 4 | 0 | 22 | 2 | 0 |
| March | 8.9 | NE. | 34 | SW. | 0 | 5 | 7 | 4 | 1 | 2 | 2 | 0 | 10 | 0 | 11 | 7 | 13 | 5 | 5 | 1 | 1 | 0 | 0 | 0 | 15 | 4 | 0 |
| April | 11.8 | S. | 40 | SW. | 1 | 5 | 3 | 0 | 4 | 11 | 3 | 2 | 2 | 0 | 7 | 14 | 9 | 9 | 7 | 0 | 3 | 0 | 0 | 0 | 2 | 6 | 0 |
| May | 8.1 | SE. | 29 | NE. | 0 | 3 | 2 | 4 | 4 | 7 | 4 | 1 | 5 | 1 | 10 | 8 | 13 | 9 | 8 | 0 | 1 | 0 | 0 | 1 | 1 | 7 | 0 |
| June | 6.2 | S. | 27 | NW. | 0 | 4 | 4 | 6 | 4 | 7 | 2 | 0 | 2 | 1 | 7 | 16 | 7 | 18 | 13 | 0 | 1 | 0 | 0 | 3 | 0 | 16 | 0 |
| July | 5.7 | SE. | 33 | N. | 0 | 3 | 2 | 5 | 8 | 6 | 4 | 0 | 2 | 1 | 13 | 14 | 4 | 11 | 9 | 0 | 0 | 0 | 0 | 15 | 0 | 13 | 0 |
| August | 5.3 | SE. | 23 | N. | 0 | 3 | 1 | 5 | 8 | 9 | 3 | 0 | 2 | 0 | 21 | 5 | 5 | 6 | 4 | 0 | 0 | 0 | 0 | 23 | 0 | 3 | 0 |
| September | 5.5 | NE. | 24 | N. | 0 | 1 | 9 | 2 | 6 | 3 | 2 | 1 | 4 | 2 | 15 | 11 | 4 | 5 | 4 | 0 | 0 | 0 | 0 | 8 | 0 | 4 | 0 |
| October | 7.3 | S. | 27 | SW. | 0 | 2 | 2 | 4 | 5 | 10 | 3 | 2 | 3 | 0 | 17 | 4 | 10 | 7 | 5 | 0 | 0 | 0 | 0 | 5 | 3 | 3 | 0 |
| November | 9.8 | S. | 33 | S. | 0 | 3 | 2 | 3 | 2 | 12 | 2 | 1 | 5 | 0 | 11 | 4 | 15 | 9 | 8 | 0 | 1 | 0 | 0 | 0 | 7 | 4 | 0 |
| December | 7.6 | NW. | 26 | NW. | 0 | 3 | 0 | 3 | 3 | 0 | 5 | 6 | 11 | 0 | 11 | 11 | 9 | 6 | 5 | 3 | 1 | 0 | 14 | 0 | 28 | 1 | 0 |
| Year | 8.0 | S. | 44 | NW. | 3 | 45 | 38 | 37 | 52 | 84 | 34 | 17 | 53 | 5 | 135 | 108 | 122 | 103 | 78 | 11 | 8 | 2 | 29 | 55 | 101 | 65 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

JACKSONVILLE, FLA.

[$\phi$=30° 20′ N.; $\lambda$=81° 39′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 30.110 | 30.293 | 29.579 | 52.8 | 59.0 | 67.3 | 51.1 | 59.2 | 79 | 23 | 51 | 55 | 94 | 87 | 0.388 | 0.447 | 1.17 | 0.98 | 4.6 | 3.5 | 5.1 |
| February | 30.096 | 30.478 | 29.797 | 51.6 | 60.7 | 68.4 | 48.1 | 58.2 | 81 | 25 | 47 | 51 | 84 | 72 | .353 | .396 | 1.51 | .66 | 3.6 | 2.3 | 3.3 |
| March | 29.919 | 30.188 | 29.525 | 57.8 | 64.3 | 72.6 | 54.5 | 63.6 | 84 | 42 | 54 | 55 | 86 | 73 | .433 | .451 | 4.24 | 2.29 | 5.1 | 3.9 | 4.4 |
| April | 30.040 | 30.329 | 29.791 | 65.5 | 69.8 | 77.5 | 62.2 | 69.8 | 87 | 46 | 62 | 63 | 88 | 80 | .566 | .586 | 1.80 | .55 | 6.0 | 3.6 | 4.9 |
| May | 29.927 | 30.219 | 29.643 | 70.7 | 72.3 | 82.0 | 65.6 | 73.8 | 92 | 52 | 64 | 65 | 82 | 79 | .618 | .630 | 2.26 | .63 | 4.1 | 4.8 | 4.8 |
| June | 29.975 | 30.155 | 29.777 | 78.8 | 78.8 | 88.0 | 72.8 | 80.4 | 94 | 67 | 74 | 74 | 86 | 84 | .847 | .830 | 8.93 | 2.78 | 3.7 | 5.1 | 4.8 |
| July | 29.964 | 30.202 | 29.660 | 78.1 | 79.4 | 88.0 | 73.7 | 80.8 | 94 | 70 | 74 | 74 | 88 | 84 | .837 | .836 | 8.43 | 2.79 | 4.5 | 6.4 | 5.7 |
| August | 29.933 | 30.111 | 29.570 | 79.4 | 80.1 | 88.7 | 74.7 | 81.7 | 97 | 71 | 75 | 74 | 86 | 82 | .862 | .839 | 5.18 | 1.20 | 3.8 | 5.4 | 5.4 |
| September | 29.953 | 30.086 | 29.770 | 73.6 | 76.2 | 83.8 | 70.3 | 77.0 | 91 | 56 | 68 | 69 | 84 | 79 | .704 | .722 | 4.98 | 2.93 | 4.6 | 3.4 | 4.8 |
| October | 30.062 | 30.289 | 29.617 | 64.6 | 70.0 | 78.9 | 61.5 | 70.2 | 85 | 45 | 58 | 61 | 80 | 74 | .497 | .552 | .08 | .06 | 2.4 | 1.9 | 3.4 |
| November | 30.152 | 30.405 | 29.667 | 58.3 | 64.3 | 74.0 | 55.7 | 64.8 | 84 | 40 | 54 | 59 | 86 | 83 | .438 | .513 | .99 | .41 | 2.1 | 2.5 | 3.5 |
| December | 30.037 | 30.393 | 29.741 | 45.6 | 52.9 | 60.8 | 42.1 | 51.4 | 75 | 19 | 41 | 44 | 83 | 74 | .283 | .316 | 2.30 | 1.20 | 4.2 | 2.7 | 4.3 |
| Year | 30.014 | 30.478 | 29.523 | 64.7 | 69.0 | 77.5 | 61.0 | 69.2 | 97 | 19 | 60 | 62 | 86 | 79 | .569 | .593 | 41.87 | 2.93 | 4.1 | 3.8 | 4.5 |

JUPITER, FLA.

[$\phi$=26° 57′ N.; $\lambda$=80° 7′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 30.083 | 30.261 | 29.801 | 66.3 | 67.1 | 74.6 | 62.5 | 68.6 | 80 | 37 | 60 | 61 | 82 | 80 | 0.534 | 0.544 | 5.98 | 2.39 | 5.3 | 4.7 | 5.0 |
| February | 30.106 | 30.373 | 29.906 | 63.4 | 67.3 | 74.2 | 59.0 | 66.6 | 83 | 34 | 57 | 59 | 79 | 75 | .480 | .506 | .41 | .37 | 5.1 | 3.8 | 4.9 |
| March | 29.937 | 30.147 | 29.637 | 67.5 | 69.6 | 78.2 | 62.4 | 70.3 | 88 | 46 | 60 | 62 | 78 | 76 | .540 | .558 | 2.09 | 1.25 | 4.7 | 2.5 | 3.9 |
| April | 30.031 | 30.229 | 29.889 | 73.1 | 73.5 | 79.5 | 67.9 | 73.7 | 88 | 53 | 66 | 66 | 79 | 77 | .648 | .642 | 4.97 | 2.51 | 5.9 | 4.7 | 5.3 |
| May | 29.918 | 30.120 | 29.755 | 77.1 | 76.2 | 82.4 | 71.5 | 77.0 | 89 | 66 | 70 | 69 | 80 | 80 | .737 | .720 | 8.61 | 2.68 | 5.6 | 6.3 | 5.4 |
| June | 29.972 | 30.102 | 29.800 | 81.4 | 79.1 | 86.3 | 74.6 | 80.4 | 91 | 69 | 74 | 73 | 78 | 82 | .830 | .815 | 4.35 | 1.78 | 5.5 | 7.5 | 5.5 |
| July | 29.998 | 30.184 | 29.809 | 81.4 | 79.0 | 86.7 | 74.5 | 80.6 | 92 | 70 | 75 | 74 | 81 | 85 | .867 | .838 | 6.61 | 1.53 | 6.1 | 6.3 | 5.3 |
| August | 29.924 | 30.058 | 29.680 | 82.4 | 80.6 | 88.1 | 75.3 | 81.7 | 95 | 72 | 75 | 75 | 79 | 82 | .879 | .860 | 4.53 | 1.17 | 6.1 | 7.1 | 5.8 |
| September | 29.896 | 30.032 | 29.628 | 80.0 | 78.8 | 85.5 | 74.7 | 80.1 | 91 | 70 | 73 | 72 | 80 | 81 | .816 | .789 | 7.59 | 2.84 | 6.4 | 5.9 | 5.4 |
| October | 29.996 | 30.178 | 29.521 | 76.3 | 75.7 | 81.1 | 72.2 | 76.6 | 87 | 64 | 68 | 66 | 75 | 73 | .677 | .649 | 5.57 | 2.62 | 6.5 | 6.3 | 6.5 |
| November | 30.095 | 30.287 | 29.750 | 70.7 | 71.5 | 77.9 | 66.2 | 72.0 | 82 | 51 | 61 | 61 | 73 | 70 | .547 | .540 | .98 | .50 | 4.8 | 3.9 | 4.8 |
| December | 30.024 | 30.346 | 29.844 | 59.2 | 63.8 | 72.5 | 55.1 | 63.8 | 82 | 30 | 53 | 56 | 80 | 76 | .434 | .467 | .99 | .33 | 4.4 | 4.0 | 4.9 |
| Year | 29.998 | 30.373 | 29.521 | 73.2 | 73.5 | 80.6 | 68.0 | 74.3 | 95 | 30 | 66 | 66 | 79 | 78 | .666 | .661 | 53.28 | 2.84 | 5.5 | 5.2 | 5.2 |

KALISPELL, MONT.

[$\phi$=48° 10′ N.; $\lambda$=114° 25′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 26.794 | 27.437 | 26.131 | 10.8 | 16.5 | 22.3 | 5.3 | 13.8 | 48 | −34 | 6 | 11 | 79 | 78 | 0.071 | 0.090 | 1.80 | 0.53 | 5.7 | 7.2 | 7.1 |
| February | 26.776 | 27.233 | 26.467 | 22.3 | 30.0 | 34.1 | 19.6 | 26.8 | 45 | − 2 | 19 | 22 | 86 | 71 | .106 | .118 | 1.11 | .36 | 6.7 | 8.2 | 7.4 |
| March | 26.866 | 27.206 | 26.487 | 27.1 | 41.0 | 43.8 | 25.5 | 34.6 | 58 | 7 | 23 | 26 | 83 | 56 | .123 | .139 | .72 | .30 | 5.1 | 5.9 | 4.9 |
| April | 26.902 | 27.430 | 26.565 | 30.2 | 45.0 | 49.1 | 28.1 | 38.6 | 61 | 21 | 25 | 24 | 79 | 46 | .131 | .131 | .83 | .38 | 7.2 | 5.7 | 5.7 |
| May | 26.862 | 27.228 | 26.565 | 39.3 | 56.1 | 59.5 | 37.8 | 48.6 | 78 | 26 | 33 | 35 | 79 | 50 | .193 | .214 | 1.47 | .32 | 6.2 | 6.2 | 5.9 |
| June | 23.915 | 27.138 | 26.714 | 48.9 | 68.1 | 70.8 | 47.0 | 58.9 | 88 | 40 | 43 | 44 | 81 | 46 | .282 | .301 | 3.05 | 1.53 | 5.9 | 5.7 | 5.0 |
| July | 23.897 | 27.200 | 26.574 | 50.7 | 73.6 | 75.6 | 48.7 | 62.2 | 89 | 38 | 44 | 48 | 80 | 43 | .299 | .338 | 3.07 | 1.06 | 4.1 | 4.2 | 4.1 |
| August | 26.921 | 27.202 | 26.669 | 46.2 | 75.8 | 78.5 | 44.9 | 61.7 | 89 | 35 | 39 | 41 | 77 | 31 | .240 | .265 | .11 | .09 | 3.1 | 2.1 | 2.5 |
| September | 26.953 | 27.227 | 26.693 | 44.3 | 63.6 | 68.5 | 42.2 | 55.4 | 83 | 30 | 40 | 44 | 85 | 51 | .252 | .294 | 1.21 | .64 | 6.2 | 5.8 | 5.1 |
| October | 26.966 | 27.262 | 26.541 | 36.0 | 49.5 | 56.2 | 33.6 | 44.9 | 66 | 25 | 32 | 36 | 85 | 60 | .183 | .213 | .43 | .17 | 5.8 | 7.3 | 5.8 |
| November | 26.866 | 27.249 | 26.352 | 32.1 | 36.7 | 41.9 | 29.1 | 35.5 | 58 | 6 | 29 | 30 | 87 | 78 | .166 | .174 | 2.99 | .48 | 7.6 | 8.2 | 8.3 |
| December | 27.017 | 27.430 | 26.380 | 16.3 | 20.7 | 25.4 | 12.9 | 19.2 | 41 | − 2 | 13 | 16 | 86 | 81 | .082 | .095 | 1.01 | .34 | 7.3 | 6.3 | 7.2 |
| Year | 26.895 | 27.437 | 26.131 | 33.7 | 48.0 | 52.1 | 31.2 | 41.7 | 89 | −34 | 29 | 31 | 82 | 58 | .177 | .198 | 17.80 | 1.53 | 5.9 | 6.1 | 5.8 |

KANSAS CITY, MO.

[$\phi$=39° 5′ N.; $\lambda$=94° 37′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.083 | 29.523 | 28.091 | 26.2 | 31.8 | 37.5 | 21.5 | 29.5 | 69 | − 6 | 21 | 25 | 80 | 76 | 0.141 | 0.162 | 1.25 | 0.73 | 6.5 | 5.3 | 6.9 |
| February | 28.877 | 29.396 | 28.325 | 30.0 | 39.7 | 47.7 | 26.4 | 37.0 | 67 | 4 | 23 | 29 | 75 | 68 | .134 | .166 | 1.75 | .69 | 4.2 | 4.5 | 4.6 |
| March | 28.913 | 29.383 | 28.365 | 35.4 | 46.1 | 51.3 | 33.6 | 42.4 | 77 | 21 | 29 | 31 | 77 | 56 | .162 | .174 | 1.50 | .96 | 4.7 | 5.2 | 5.0 |
| April | 28.888 | 29.462 | 28.268 | 46.4 | 55.9 | 63.7 | 41.6 | 52.6 | 84 | 31 | 38 | 40 | 73 | 58 | .241 | .266 | 4.20 | 1.80 | 5.3 | 5.6 | 4.9 |
| May | 28.821 | 29.117 | 28.453 | 56.5 | 68.0 | 71.9 | 53.9 | 62.9 | 91 | 29 | 47 | 50 | 70 | 56 | .340 | .388 | 5.77 | 2.30 | 4.2 | 4.8 | 4.1 |
| June | 28.922 | 29.201 | 28.752 | 67.4 | 76.6 | 81.7 | 65.1 | 73.4 | 90 | 59 | 62 | 64 | 84 | 66 | .570 | .603 | 6.01 | 1.67 | 5.6 | 4.8 | 5.5 |
| July | 28.919 | 29.183 | 28.641 | 72.2 | 81.7 | 86.0 | 69.5 | 77.8 | 94 | 63 | 66 | 67 | 80 | 63 | .636 | .675 | 6.34 | 1.79 | 5.0 | 3.2 | 4.1 |
| August | 28.973 | 29.314 | 28.705 | 73.3 | 84.9 | 89.6 | 71.5 | 80.6 | 100 | 56 | 63 | 64 | 71 | 52 | .591 | .623 | .42 | .34 | 2.6 | 2.4 | 2.4 |
| September | 29.022 | 29.415 | 28.516 | 61.6 | 72.0 | 78.0 | 59.6 | 68.8 | 95 | 46 | 56 | 58 | 82 | 64 | .465 | .514 | 6.78 | 2.38 | 3.7 | 3.5 | 3.8 |
| October | 29.005 | 29.433 | 28.545 | 49.9 | 60.7 | 67.3 | 47.3 | 57.3 | 89 | 28 | 41 | 42 | 73 | 54 | .273 | .282 | .97 | .40 | 4.1 | 2.9 | 4.0 |
| November | 29.018 | 29.434 | 28.589 | 45.7 | 53.6 | 60.9 | 43.0 | 52.0 | 80 | 22 | 40 | 43 | 80 | 70 | .263 | .286 | 2.86 | 1.30 | 6.1 | 4.4 | 6.5 |
| December | 29.022 | 29.353 | 28.590 | 18.9 | 25.5 | 29.1 | 15.3 | 22.2 | 55 | − 1 | 14 | 19 | 80 | 74 | .095 | .112 | 2.47 | 1.21 | 6.1 | 5.4 | 5.9 |
| Year | 28.955 | 29.523 | 28.091 | 48.6 | 58.0 | 63.7 | 45.7 | 54.7 | 100 | − 6 | 42 | 44 | 77 | 63 | .326 | .355 | 40.32 | 2.38 | 4.8 | 4.3 | 4.8 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

## JACKSONVILLE, FLA.

[H=43 ft.; $h_t$=96 ft.; $h_r$=88 ft.; $h_a$=129 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 8.8 | NE. | 56 | SW. | 1 | 15 | 19 | 5 | 5 | 1 | 2 | 7 | 7 | 1 | 12 | 9 | 10 | 5 | 3 | 0 | 0 | 9 | 0 | 0 | 2 | 1 | 0 |
| February | 9.8 | S. | 49 | SW. | 1 | 4 | 3 | 6 | 11 | 8 | 8 | 8 | 8 | 0 | 15 | 11 | 2 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 |
| March | 10.9 | SW. | 39 | N. | 0 | 9 | 9 | 5 | 8 | 5 | 12 | 6 | 7 | 1 | 14 | 10 | 7 | 10 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| April | 9.8 | S. | 29 | SW. | 0 | 9 | 13 | 8 | 9 | 8 | 6 | 5 | 2 | 0 | 10 | 14 | 6 | 9 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| May | 8.4 | SE. | 40 | S. | 1 | 6 | 5 | 7 | 19 | 8 | 9 | 2 | 5 | 1 | 9 | 17 | 5 | 10 | 8 | 0 | 0 | 0 | 0 | 4 | 0 | 9 | 0 |
| June | 9.1 | SE. | 42 | S. | 1 | 3 | 5 | 14 | 19 | 10 | 5 | 2 | 2 | 0 | 10 | 15 | 5 | 15 | 12 | 0 | 0 | 0 | 0 | 8 | 0 | 12 | 0 |
| July | 9.2 | SW. | 55 | SW. | 4 | 2 | 3 | 8 | 10 | 13 | 19 | 6 | 1 | 0 | 4 | 20 | 7 | 20 | 17 | 0 | 0 | 0 | 0 | 9 | 0 | 20 | 0 |
| August | 7.6 | SW. | 46 | NW. | 1 | 4 | 12 | 12 | 7 | 3 | 14 | 6 | 4 | 0 | 7 | 19 | 5 | 19 | 17 | 0 | 0 | 0 | 0 | 12 | 0 | 15 | 0 |
| September | 8.4 | E. | 27 | N. | 0 | 12 | 12 | 28 | 3 | 1 | 3 | 0 | 1 | 0 | 8 | 18 | 4 | 9 | 8 | 0 | 0 | 0 | 0 | 1 | 0 | 7 | 0 |
| October | 8.4 | NE. | 27 | W. | 0 | 11 | 29 | 13 | 6 | 1 | 3 | 1 | 6 | 1 | 18 | 7 | 6 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| November | 8.4 | NE. | 27 | SW. | 0 | 16 | 16 | 5 | 7 | 3 | 1 | 2 | 9 | 1 | 15 | 13 | 2 | 9 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| December | 9.2 | NW. | 42 | W. | 1 | 13 | 7 | 3 | 4 | 5 | 8 | 7 | 14 | 1 | 16 | 8 | 7 | 9 | 7 | 0 | 0 | 3 | 0 | 0 | 5 | 0 | 0 |
| Year | 9.0 | NE. | 56 | SW. | 10 | 104 | 124 | 114 | 108 | 66 | 90 | 52 | 66 | 6 | 138 | 161 | 66 | 125 | 99 | 0 | 0 | 12 | 0 | 34 | 8 | 78 | 0 |

## JUPITER, FLA.

[H=28 ft.; $h_t$=10 ft.; $h_r$=3 ft.; $h_a$=46 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 10.6 | E. | 35 | W. | 0 | 6 | 6 | 10 | 17 | 1 | 4 | 4 | 14 | 0 | 10 | 15 | 6 | 17 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| February | 13.3 | S. | 36 | SE. | 0 | 7 | 4 | 6 | 8 | 10 | 9 | 4 | 8 | 0 | 4 | 23 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| March | 12.3 | SW. | 34 | SW. | 0 | 10 | 1 | 3 | 5 | 12 | 15 | 6 | 10 | 0 | 14 | 16 | 1 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| April | 14.1 | S. | 36 | E. | 0 | 5 | 7 | 5 | 15 | 13 | 8 | 3 | 3 | 0 | 7 | 16 | 7 | 9 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| May | 10.8 | SE. | 36 | NW. | 0 | 5 | 6 | 13 | 13 | 10 | 9 | 4 | 2 | 0 | 4 | 23 | 4 | 16 | 13 | 0 | 1 | 0 | 0 | 0 | 0 | 8 | 0 |
| June | 11.5 | SE. | 36 | E. | 0 | 2 | 5 | 7 | 21 | 13 | 10 | 2 | 0 | 0 | 2 | 26 | 2 | 25 | 18 | 0 | 0 | 0 | 0 | 3 | 0 | 6 | 0 |
| July | 8.8 | SW. | 36 | SW. | 0 | 2 | 2 | 5 | 10 | 16 | 18 | 6 | 3 | 0 | 7 | 19 | 5 | 19 | 12 | 0 | 0 | 0 | 0 | 4 | 0 | 11 | 0 |
| August | 11.7 | SE. | 42 | SW. | 1 | 2 | 4 | 9 | 18 | 8 | 11 | 9 | 1 | 0 | 6 | 22 | 3 | 20 | 18 | 0 | 0 | 0 | 0 | 8 | 0 | 14 | 0 |
| September | 10.7 | E. | 32 | SE. | 0 | 9 | 14 | 20 | 8 | 4 | 1 | 1 | 3 | 0 | 8 | 16 | 6 | 14 | 11 | 0 | 0 | 0 | 0 | 1 | 0 | 5 | 0 |
| October | 15.8 | E. | 36 | E. | 0 | 2 | 17 | 32 | 3 | 2 | 0 | 2 | 4 | 0 | 2 | 16 | 13 | 13 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| November | 14.4 | E. | 36 | E. | 0 | 3 | 10 | 28 | 2 | 0 | 2 | 4 | 11 | 0 | 7 | 22 | 1 | 10 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 10.7 | NW. | 36 | SE. | 0 | 7 | 3 | 6 | 8 | 2 | 10 | 6 | 20 | 0 | 9 | 15 | 7 | 8 | 7 | 0 | 0 | 1 | 0 | 0 | 2 | 1 | 0 |
| Year | 12.1 | E. | 42 | SW. | 1 | 61 | 79 | 144 | 128 | 91 | 97 | 51 | 79 | 0 | 80 | 229 | 56 | 161 | 118 | 0 | 1 | 1 | 0 | 16 | 2 | 58 | 0 |

## KALISPELL, MONT.

[H=2,962 ft.; $h_t$=11 ft.; $h_r$=4 ft.; $h_a$=34 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 5.2 | NW. | 25 | N. | 0 | 5 | 0 | 0 | 3 | 3 | 14 | 14 | 22 | 1 | 5 | 9 | 17 | 17 | 14 | 15 | 0 | 0 | 16 | 0 | 31 | 0 | 0 |
| February | 4.1 | SW. | 23 | SW. | 0 | 2 | 0 | 0 | 3 | 2 | 24 | 9 | 16 | 0 | 3 | 9 | 16 | 14 | 6 | 12 | 0 | 0 | 6 | 0 | 27 | 0 | 0 |
| March | 4.6 | NW. | 20 | W. | 0 | 3 | 0 | 0 | 7 | 8 | 12 | 16 | 15 | 1 | 12 | 10 | 9 | 7 | 6 | 4 | 0 | 0 | 2 | 0 | 30 | 0 | 0 |
| April | 6.2 | W. | 27 | SW. | 0 | 7 | 1 | 0 | 9 | 2 | 12 | 15 | 12 | 2 | 5 | 15 | 10 | 8 | 4 | 6 | 0 | 0 | 0 | 0 | 24 | 1 | 0 |
| May | 5.7 | W. | 28 | SW. | 0 | 7 | 2 | 2 | 11 | 2 | 9 | 15 | 13 | 1 | 7 | 11 | 13 | 11 | 10 | 1 | 0 | 0 | 0 | 0 | 5 | 4 | 0 |
| June | 5.0 | W. | 19 | SW. | 0 | 4 | 2 | 2 | 14 | 2 | 3 | 20 | 13 | 0 | 11 | 11 | 8 | 12 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| July | 4.8 | W. | 19 | SW. | 0 | 2 | 1 | 1 | 14 | 2 | 5 | 22 | 15 | 0 | 14 | 10 | 7 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| August | 4.9 | W. | 21 | SW. | 0 | 0 | 1 | 2 | 12 | 2 | 6 | 25 | 14 | 0 | 25 | 3 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| September | 4.3 | W. | 25 | SW. | 0 | 1 | 0 | 2 | 17 | 4 | 10 | 13 | 12 | 1 | 12 | 9 | 9 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| October | 3.8 | W. | 21 | W. | 0 | 1 | 0 | 1 | 10 | 8 | 9 | 18 | 12 | 3 | 7 | 15 | 9 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 |
| November | 3.8 | SW. | 33 | SW. | 0 | 3 | 0 | 1 | 2 | 11 | 16 | 17 | 7 | 3 | 1 | 8 | 21 | 16 | 12 | 4 | 0 | 0 | 5 | 0 | 20 | 1 | 0 |
| December | 3.6 | NW. | 28 | W. | 0 | 3 | 0 | 0 | 0 | 1 | 7 | 11 | 40 | 0 | 6 | 4 | 21 | 11 | 6 | 11 | 0 | 0 | 22 | 0 | 31 | 0 | 0 |
| Year | 4.7 | W. | 33 | SW. | 0 | 38 | 7 | 11 | 102 | 47 | 127 | 195 | 191 | 12 | 108 | 114 | 143 | 122 | 83 | 53 | 0 | 0 | 51 | 0 | 181 | 20 | 0 |

## KANSAS CITY, MO.

[H=963 ft.; $h_t$=161 ft.; $h_r$=141 ft.; $h_a$=181 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 13.2 | S. | 74 | NW. | 2 | 16 | 4 | 2 | 9 | 16 | 6 | 2 | 7 | 0 | 5 | 10 | 16 | 8 | 5 | 5 | 0 | 5 | 15 | 0 | 23 | 1 | 0 |
| February | 14.9 | S. | 52 | NE. | 5 | 7 | 2 | 3 | 7 | 16 | 6 | 7 | 8 | 0 | 14 | 3 | 11 | 10 | 8 | 3 | 1 | 0 | 4 | 0 | 18 | 1 | 0 |
| March | 13.3 | NW. | 42 | NW. | 3 | 13 | 10 | 4 | 10 | 3 | 3 | 1 | 18 | 0 | 9 | 16 | 6 | 5 | 4 | 2 | 1 | 0 | 1 | 0 | 11 | 2 | 0 |
| April | 16.6 | S. | 50 | S. | 9 | 7 | 6 | 8 | 3 | 18 | 3 | 3 | 12 | 0 | 11 | 13 | 6 | 12 | 9 | 0 | 2 | 0 | 0 | 0 | 2 | 7 | 0 |
| May | 12.6 | S. | 35 | NW. | 0 | 9 | 6 | 3 | 13 | 12 | 8 | 4 | 7 | 0 | 15 | 11 | 5 | 11 | 8 | 0 | 0 | 0 | 1 | 1 | 1 | 6 | 0 |
| June | 10.5 | S. | 49 | NW. | 2 | 8 | 8 | 5 | 16 | 12 | 6 | 1 | 4 | 0 | 4 | 20 | 6 | 10 | 10 | 0 | 0 | 0 | 2 | 0 | 11 | 0 | 0 |
| July | 9.5 | S. | 52 | N. | 1 | 12 | 8 | 5 | 11 | 14 | 5 | 2 | 5 | 0 | 15 | 11 | 5 | 12 | 12 | 0 | 0 | 1 | 0 | 7 | 0 | 14 | 0 |
| August | 9.9 | SE. | 31 | NW. | 0 | 6 | 3 | 5 | 15 | 23 | 6 | 1 | 3 | 0 | 20 | 9 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 14 | 0 | 3 | 0 |
| September | 10.3 | SE. | 36 | SE. | 0 | 8 | 5 | 11 | 13 | 10 | 3 | 4 | 6 | 0 | 17 | 7 | 6 | 13 | 10 | 0 | 0 | 0 | 0 | 2 | 0 | 11 | 0 |
| October | 11.3 | S. | 44 | NW. | 1 | 6 | 2 | 12 | 11 | 13 | 6 | 7 | 5 | 0 | 16 | 7 | 8 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 |
| November | 13.5 | S. | 36 | SE. | 0 | 5 | 6 | 6 | 9 | 16 | 7 | 5 | 6 | 0 | 7 | 8 | 15 | 15 | 6 | 1 | 0 | 2 | 0 | 0 | 6 | 2 | 0 |
| December | 12.5 | NW. | 46 | NW. | 1 | 4 | 3 | 1 | 6 | 5 | 8 | 17 | 18 | 0 | 9 | 8 | 14 | 10 | 6 | 6 | 1 | 0 | 17 | 0 | 27 | 1 | 0 |
| Year | 12.3 | S. | 74 | NW. | 24 | 101 | 63 | 65 | 123 | 158 | 67 | 54 | 99 | 0 | 142 | 123 | 100 | 115 | 86 | 17 | 5 | 8 | 37 | 26 | 89 | 62 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

## KEOKUK, IOWA.

[$\phi$=40° 22′ N.; $\lambda$=91° 26′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | Extremes. | | Dew point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.469 | 29.922 | 28.439 | 24.3 | 29.7 | 36.8 | 20.2 | 28.5 | 72 | −10 | 21 | 23 | 85 | 78 | 0.134 | 0.152 | 1.26 | 0.70 | 6.8 | 6.0 | 6.6 |
| February | 29.252 | 29.811 | 28.535 | 28.3 | 35.5 | 43.9 | 24.4 | 34.2 | 62 | 8 | 24 | 28 | 85 | 73 | .139 | .159 | 2.44 | .57 | 5.1 | 5.9 | 4.9 |
| March | 29.291 | 29.803 | 28.706 | 32.2 | 40.5 | 47.4 | 30.4 | 38.9 | 62 | 11 | 27 | 28 | 81 | 62 | .150 | .157 | 1.84 | .80 | 5.9 | 4.6 | 4.9 |
| April | 29.277 | 29.736 | 28.502 | 43.3 | 52.4 | 61.0 | 40.2 | 50.6 | 85 | 25 | 36 | 38 | 75 | 60 | .219 | .245 | 4.99 | 1.24 | 5.0 | 6.5 | 4.8 |
| May | 29.214 | 29.538 | 28.843 | 54.6 | 65.8 | 71.4 | 50.5 | 61.0 | 89 | 31 | 46 | 47 | 75 | 53 | .329 | .348 | 3.03 | 1.01 | 4.5 | 5.1 | 3.4 |
| June | 29.309 | 29.638 | 29.106 | 66.8 | 76.3 | 82.2 | 63.3 | 72.8 | 90 | 50 | 62 | 64 | 84 | 68 | .558 | .614 | 5.11 | 2.50 | 5.3 | 6.2 | 4.1 |
| July | 29.306 | 29.620 | 29.005 | 68.9 | 78.9 | 83.6 | 65.6 | 74.6 | 93 | 54 | 63 | 65 | 82 | 64 | .579 | .626 | 5.46 | 2.92 | 5.6 | 3.1 | 4.5 |
| August | 29.354 | 29.651 | 29.055 | 71.7 | 83.8 | 90.6 | 68.4 | 79.5 | 98 | 52 | 64 | 66 | 77 | 56 | .609 | .651 | .68 | .66 | 1.9 | 3.7 | 2.3 |
| September | 29.426 | 29.809 | 28.877 | 58.0 | 67.6 | 75.6 | 55.8 | 65.7 | 93 | 42 | 54 | 56 | 86 | 68 | .433 | .468 | 3.46 | 2.08 | 4.0 | 4.4 | 4.1 |
| October | 29.404 | 29.875 | 29.044 | 43.9 | 54.5 | 62.6 | 42.2 | 52.4 | 88 | 23 | 37 | 41 | 77 | 64 | .234 | .279 | 4.48 | 1.70 | 3.4 | 3.3 | 4.2 |
| November | 29.417 | 29.860 | 28.934 | 45.1 | 50.7 | 59.5 | 40.8 | 50.2 | 79 | 17 | 40 | 42 | 82 | 72 | .261 | .277 | 3.97 | 1.33 | 6.4 | 4.2 | 5.6 |
| December | 29.381 | 29.821 | 28.958 | 17.1 | 21.8 | 27.7 | 13.6 | 20.6 | 55 | − 9 | 13 | 17 | 83 | 81 | .094 | .109 | 2.56 | 1.39 | 6.0 | 4.5 | 6.2 |
| Year | 29.342 | 29.922 | 28.439 | 46.2 | 54.8 | 61.9 | 43.0 | 52.4 | 98 | −10 | 41 | 43 | 81 | 67 | .312 | .340 | 39.28 | 2.92 | 5.0 | 4.8 | 4.6 |

## KEY WEST, FLA.

[$\phi$=24° 33′ N.; $\lambda$=81° 48′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 30.072 | 30.268 | 29.854 | 69.5 | 69.6 | 75.7 | 66.4 | 71.0 | 79 | 54 | 64 | 64 | 82 | 81 | 0.596 | 0.590 | 1.82 | 1.05 | 4.6 | 2.5 | 3.8 |
| February | 30.087 | 30.372 | 29.925 | 68.1 | 69.1 | 75.6 | 65.0 | 70.3 | 81 | 47 | 63 | 64 | 84 | 84 | .586 | .609 | .10 | .08 | 3.0 | 1.8 | 3.0 |
| March | 29.943 | 30.092 | 29.744 | 73.3 | 73.2 | 79.8 | 69.4 | 74.6 | 85 | 58 | 67 | 66 | 80 | 79 | .659 | .653 | .35 | .17 | 3.4 | .9 | 2.8 |
| April | 30.020 | 30.180 | 29.906 | 76.3 | 75.5 | 81.8 | 71.4 | 76.6 | 86 | 63 | 69 | 69 | 79 | 80 | .716 | .707 | 3.01 | 1.41 | 3.2 | 3.0 | 3.5 |
| May | 29.904 | 30.099 | 29.800 | 80.6 | 78.9 | 85.0 | 74.8 | 79.9 | 88 | 68 | 73 | 72 | 77 | 81 | .801 | .796 | 6.70 | 4.21 | 4.3 | 3.8 | 3.1 |
| June | 29.960 | 30.053 | 29.851 | 82.6 | 80.5 | 86.5 | 75.1 | 80.8 | 90 | 69 | 75 | 74 | 78 | 81 | .863 | .842 | 9.71 | 4.21 | 5.3 | 6.6 | 6.2 |
| July | 30.001 | 30.160 | 29.877 | 83.1 | 81.3 | 88.0 | 77.9 | 83.0 | 90 | 74 | 75 | 75 | 78 | 81 | .877 | .859 | 1.21 | .37 | 6.4 | 7.3 | 6.5 |
| August | 29.921 | 30.018 | 29.776 | 82.2 | 81.1 | 87.5 | 76.0 | 81.8 | 91 | 72 | 75 | 74 | 79 | 81 | .866 | .852 | 8.56 | 1.82 | 7.0 | 7.2 | 7.2 |
| September | 29.871 | 29.988 | 29.661 | 81.2 | 80.1 | 86.1 | 75.2 | 80.6 | 88 | 72 | 74 | 74 | 78 | 81 | .833 | .831 | 6.35 | 1.18 | 5.4 | 4.8 | 5.5 |
| October | 29.945 | 30.111 | 28.500 | 76.9 | 77.0 | 81.6 | 73.2 | 77.4 | 81 | 71 | 72 | 72 | 84 | 83 | .772 | .772 | 16.87 | 11.23 | 6.3 | 5.0 | 6.4 |
| November | 30.074 | 30.238 | 29.821 | 71.9 | 72.4 | 77.9 | 68.9 | 73.4 | 82 | 62 | 65 | 65 | 79 | 77 | .616 | .615 | .06 | .06 | 2.1 | 1.4 | 2.6 |
| December | 30.034 | 30.343 | 29.893 | 67.8 | 68.2 | 74.1 | 64.2 | 69.2 | 81 | 48 | 63 | 63 | 85 | 83 | .588 | .588 | 1.61 | 1.12 | 3.7 | 2.8 | 4.2 |
| Year | 29.986 | 30.372 | 28.500 | 76.1 | 75.6 | 81.6 | 71.5 | 76.6 | 91 | 47 | 70 | 69 | 80 | 81 | .731 | .726 | 56.35 | 11.23 | 4.6 | 3.9 | 4.6 |

## KNOXVILLE, TENN.

[$\phi$=35° 56′ N.; $\lambda$=83° 58′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.101 | 29.431 | 28.323 | 39.7 | 45.7 | 51.7 | 36.0 | 43.8 | 72 | 10 | 36 | 38 | 87 | 75 | 0.228 | 0.244 | 3.17 | 0.99 | 7.9 | 7.4 | 8.6 |
| February | 28.976 | 29.543 | 28.498 | 39.9 | 48.8 | 56.8 | 35.4 | 46.1 | 76 | 11 | 34 | 34 | 81 | 61 | .216 | .220 | 7.05 | 1.92 | 6.2 | 5.4 | 5.3 |
| March | 28.881 | 29.295 | 28.426 | 42.0 | 51.4 | 57.2 | 39.0 | 48.1 | 76 | 28 | 35 | 37 | 78 | 60 | .215 | .237 | 5.98 | 1.24 | 6.1 | 5.5 | 6.0 |
| April | 28.987 | 29.374 | 28.585 | 52.6 | 63.6 | 68.8 | 48.7 | 58.8 | 86 | 34 | 44 | 42 | 74 | 50 | .307 | .290 | 5.70 | 2.06 | 5.6 | 5.3 | 5.2 |
| May | 28.897 | 29.163 | 28.622 | 60.1 | 69.2 | 75.9 | 55.9 | 65.9 | 86 | 36 | 53 | 54 | 79 | 62 | .420 | .448 | 4.14 | 2.17 | 5.5 | 5.5 | 5.4 |
| June | 28.963 | 29.167 | 28.675 | 70.1 | 75.8 | 83.0 | 66.6 | 74.8 | 90 | 60 | 66 | 66 | 87 | 75 | .642 | .654 | 9.68 | 2.54 | 7.1 | 6.6 | 6.2 |
| July | 28.952 | 29.251 | 28.708 | 70.1 | 77.1 | 83.9 | 66.3 | 75.1 | 92 | 59 | 65 | 67 | 84 | 72 | .627 | .667 | 7.01 | 2.58 | 6.8 | 5.8 | 5.8 |
| August | 28.979 | 29.236 | 28.656 | 70.6 | 78.9 | 86.3 | 67.4 | 76.8 | 93 | 60 | 66 | 68 | 86 | 70 | .650 | .682 | 3.17 | 1.92 | 3.8 | 4.4 | 4.5 |
| September | 29.043 | 29.182 | 28.837 | 62.7 | 70.8 | 78.1 | 59.8 | 69.0 | 86 | 40 | 58 | 59 | 85 | 68 | .504 | .524 | 2.91 | 1.79 | 4.7 | 3.1 | 4.7 |
| October | 29.083 | 29.335 | 28.709 | 48.2 | 60.5 | 69.3 | 45.0 | 57.2 | 82 | 30 | 44 | 44 | 85 | 56 | .298 | .308 | 1.61 | 1.00 | 3.4 | 1.7 | 3.1 |
| November | 29.172 | 29.454 | 28.638 | 43.8 | 58.3 | 66.1 | 42.4 | 54.2 | 77 | 27 | 39 | 42 | 83 | 56 | .250 | .283 | .91 | .49 | 3.9 | 1.5 | 3.8 |
| December | 29.005 | 29.387 | 28.520 | 29.0 | 35.7 | 42.2 | 25.8 | 34.0 | 63 | 8 | 24 | 27 | 81 | 69 | .141 | .156 | 2.49 | .97 | 6.3 | 4.7 | 6.1 |
| Year | 29.003 | 29.543 | 28.323 | 52.4 | 61.3 | 68.3 | 49.0 | 58.6 | 93 | 8 | 47 | 48 | 82 | 64 | .375 | .393 | 53.82 | 2.58 | 5.6 | 4.7 | 5.4 |

## LA CROSSE, WIS.

[$\phi$=43° 49′ N.; $\lambda$=91° 15′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.344 | 29.854 | 28.596 | 15.2 | 20.2 | 26.5 | 10.1 | 18.3 | 46 | −22 | 11 | .... | 84 | .... | 0.090 | ..... | 1.53 | 1.13 | 5.3 | 5.3 | 6.7 |
| February | 29.134 | 29.726 | 28.331 | 15.8 | 24.4 | 30.6 | 12.7 | 21.6 | 49 | − 8 | 12 | .... | 81 | .... | .079 | ..... | 1.89 | .79 | 7.3 | 5.7 | 7.3 |
| March | 29.167 | 29.701 | 28.683 | 24.8 | 32.4 | 37.5 | 22.4 | 30.0 | 49 | − 1 | 20 | .... | 82 | .... | .110 | ..... | 1.36 | 1.01 | 6.3 | 5.8 | 6.5 |
| April | 29.159 | 29.586 | 28.628 | 35.5 | 43.4 | 48.4 | 32.6 | 40.5 | 67 | 19 | 30 | .... | 80 | .... | .170 | ..... | 5.96 | 1.40 | 7.3 | 7.0 | 7.1 |
| May | 29.090 | 29.389 | 28.634 | 51.6 | 62.5 | 67.8 | 46.9 | 57.4 | 91 | 28 | 45 | .... | 78 | .... | .314 | ..... | 3.19 | 1.95 | 6.3 | 5.9 | 6.4 |
| June | 29.213 | 29.546 | 28.942 | 61.5 | 71.9 | 78.3 | 57.5 | 67.9 | 92 | 47 | 56 | .... | 84 | .... | .466 | ..... | 1.99 | .44 | 6.9 | 6.1 | 5.6 |
| July | 29.194 | 29.534 | 28.883 | 65.0 | 77.1 | 83.1 | 60.6 | 71.8 | 96 | 52 | 59 | .... | 82 | .... | .513 | ..... | .66 | .56 | 6.1 | 4.0 | 5.3 |
| August | 29.238 | 29.572 | 29.046 | 66.5 | 77.4 | 84.6 | 63.6 | 74.1 | 94 | 47 | 62 | .... | 86 | .... | .565 | ..... | 8.76 | 3.96 | 6.5 | 3.5 | 4.4 |
| September | 29.319 | 29.847 | 28.927 | 52.9 | 62.4 | 70.6 | 50.7 | 60.6 | 83 | 37 | 50 | .... | 91 | .... | .379 | ..... | 4.03 | 1.94 | 4.8 | 5.4 | 5.5 |
| October | 29.248 | 29.851 | 28.725 | 40.8 | 48.8 | 56.4 | 37.5 | 47.0 | 79 | 18 | 36 | .... | 82 | .... | .223 | ..... | 1.30 | 1.40 | 6.1 | 5.0 | 5.8 |
| November | 29.276 | 29.797 | 28.688 | 36.6 | 42.1 | 49.0 | 31.4 | 40.2 | 67 | 11 | 33 | .... | 85 | .... | .202 | ..... | 5.80 | 1.90 | 6.5 | 5.6 | 7.0 |
| December | 29.205 | 29.637 | 28.714 | 13.2 | 16.4 | 22.6 | 7.7 | 15.2 | 52 | −11 | 10 | .... | 82 | .... | .083 | ..... | 1.79 | .46 | 7.2 | 6.8 | 7.7 |
| Year | 29.216 | 29.854 | 28.331 | 40.0 | 48.2 | 54.6 | 36.1 | 45.4 | 96 | −22 | 35 | .... | 83 | .... | .266 | ..... | 38.26 | 3.96 | 6.4 | 5.5 | 6.3 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

## KEOKUK, IOWA.

[H=614 ft.; $h_t$=64 ft.; $h_r$=56 ft.; $h_a$=78 ft.]

| Month. | Wind. | | | | | | | | | | | | | | Number of days. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | By self-register. | | | | | Number of winds, 8 a. m. and 8 p. m. | | | | | | | | | | | | Precipitation. | | | | | | Maximum temp. | | | Electricity. | |
| | Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Clear. | Partly cloudy. | Cloudy. | 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | 32° or below. | 90° or above. | Minimum temperature 32° or below. | Thunderstorms. | Auroras. |
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 8.1 | NW. | 37 | NW. | 0 | 4 | 8 | 1 | 12 | 11 | 6 | 2 | 18 | 0 | 8 | 7 | 16 | 6 | 4 | 2 | 0 | 2 | 12 | 0 | 23 | 2 | 0 |
| February | 10.0 | SW. | 40 | SW. | 1 | 5 | 6 | 1 | 9 | 10 | 11 | 4 | 10 | 0 | 16 | 1 | 11 | 14 | 12 | 7 | 0 | 1 | 5 | 0 | 22 | 2 | 0 |
| March | 8.6 | NW. | 32 | NW. | 0 | 4 | 10 | 7 | 3 | 0 | 6 | 8 | 23 | 1 | 9 | 17 | 5 | 8 | 5 | 3 | 0 | 1 | 0 | 0 | 17 | 2 | 0 |
| April | 10.8 | SE. | 40 | W. | 1 | 7 | 4 | 5 | 12 | 6 | 7 | 11 | 6 | 2 | 12 | 9 | 9 | 11 | 11 | 1 | 3 | 1 | 0 | 0 | 5 | 6 | 0 |
| May | 8.3 | SE. | 36 | W. | 0 | 6 | 9 | 9 | 13 | 5 | 6 | 6 | 5 | 3 | 17 | 11 | 3 | 11 | 11 | 0 | 0 | 0 | 0 | 0 | 2 | 9 | 0 |
| June | 5.5 | S. | 22 | NW. | 0 | 10 | 9 | 4 | 11 | 2 | 13 | 3 | 5 | 3 | 11 | 17 | 2 | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 |
| July | 5.6 | E. | 20 | NW. | 0 | 4 | 10 | 9 | 9 | 8 | 8 | 3 | 10 | 1 | 13 | 11 | 7 | 10 | 10 | 0 | 0 | 0 | 0 | 3 | 0 | 5 | 0 |
| August | 4.7 | S. | 17 | N. | 0 | 6 | 3 | 12 | 9 | 21 | 5 | 1 | 3 | 2 | 24 | 6 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 20 | 0 | 4 | 0 |
| September | 5.1 | SE. | 20 | SW. | 0 | 9 | 8 | 11 | 12 | 5 | 2 | 2 | 7 | 4 | 15 | 6 | 9 | 9 | 8 | 0 | 0 | 0 | 0 | 2 | 0 | 5 | 0 |
| October | 7.6 | SW. | 33 | NW. | 0 | 2 | 12 | 8 | 8 | 5 | 12 | 5 | 7 | 3 | 14 | 9 | 8 | 10 | 10 | 1 | 1 | 2 | 0 | 0 | 6 | 4 | 1 |
| November | 9.4 | SE. | 35 | SE. | 0 | 6 | 5 | 4 | 16 | 7 | 8 | 7 | 5 | 2 | 9 | 9 | 12 | 9 | 7 | 1 | 1 | 1 | 0 | 0 | 5 | 4 | 0 |
| December | 8.7 | W. | 35 | SW. | 0 | 2 | 3 | 4 | 4 | 4 | 17 | 19 | 9 | 0 | 8 | 9 | 14 | 9 | 9 | 6 | 0 | 1 | 24 | 0 | 27 | 1? | 0 |
| Year | 7.7 | SE. | 40 | W. | 2 | 65 | 87 | 75 | 118 | 84 | 101 | 71 | 108 | 21 | 156 | 112 | 97 | 107 | 93 | 21 | 5 | 9 | 41 | 25 | 107 | 54 | 1 |

## KEY WEST, FLA.

[H=22 ft.; $h_t$=10 ft.; $h_r$=3 ft.; $h_a$=53 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 9.5 | NE. | 58 | W. | 1 | 6 | 36 | 6 | 1 | 2 | 3 | 1 | 7 | 0 | 18 | 7 | 6 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| February | 10.3 | NE. | 26 | E. | 0 | 2 | 20 | 11 | 11 | 5 | 0 | 2 | 1 | 0 | 18 | 9 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| March | 10.6 | SE. | 36 | W. | 0 | 3 | 7 | 14 | 15 | 5 | 4 | 3 | 11 | 0 | 21 | 10 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 9.4 | SE. | 43 | NW. | 1 | 3 | 13 | 21 | 11 | 6 | 2 | 0 | 4 | 0 | 19 | 6 | 5 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| May | 6.5 | E. | 36 | SW. | 0 | 7 | 8 | 19 | 10 | 5 | 6 | 4 | 3 | 0 | 24 | 6 | 1 | 10 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 |
| June | 9.2 | E. | 32 | NW. | 0 | 2 | 7 | 23 | 15 | 6 | 1 | 1 | 5 | 0 | 2 | 20 | 8 | 19 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 |
| July | 7.9 | E. | 33 | SE. | 0 | 3 | 3 | 24 | 10 | 7 | 5 | 4 | 5 | 1 | 1 | 19 | 11 | 8 | 7 | 0 | 0 | 0 | 0 | 2 | 0 | 7 | 0 |
| August | 9.1 | E. | 40 | W. | 2 | 0 | 7 | 19 | 11 | 6 | 5 | 10 | 3 | 1 | 2 | 16 | 13 | 20 | 19 | 0 | 0 | 0 | 0 | 1 | 0 | 15 | 0 |
| September | 8.7 | NE. | 30 | SE. | 0 | 4 | 23 | 18 | 9 | 2 | 2 | 1 | 1 | 0 | 5 | 20 | 5 | 16 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 |
| October | 12.9 | NE. | 83 | NE. | 1 | 4 | 42 | 11 | 1 | 0 | 1 | 1 | 2 | 0 | 9 | 8 | 14 | 18 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| November | 9.7 | NE. | 25 | E. | 0 | 3 | 45 | 8 | 0 | 0 | 0 | 1 | 3 | 0 | 21 | 8 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 9.3 | NE. | 32 | NW. | 0 | 6 | 25 | 6 | 7 | 4 | 5 | 1 | 7 | 1 | 13 | 16 | 2 | 9 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Year | 9.4 | NE. | 83 | NE. | 5 | 47 | 236 | 180 | 101 | 48 | 34 | 29 | 52 | 3 | 153 | 145 | 67 | 121 | 99 | 0 | 0 | 0 | 0 | 3 | 0 | 61 | 0 |

## KNOXVILLE, TENN.

[H=996 ft.; $h_t$=93 ft.; $h_r$=84 ft.; $h_a$=100 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 5.6 | NE. | 32 | SW. | 0 | 8 | 14 | 10 | 5 | 2 | 10 | 10 | 3 | 0 | 1 | 5 | 25 | 10 | 9 | 0 | 0 | 2 | 3 | 0 | 11 | 1 | 0 |
| February | 6.8 | SW. | 42 | SW. | 1 | 2 | 8 | 4 | 2 | 9 | 16 | 11 | 4 | 0 | 12 | 4 | 12 | 12 | 11 | 0 | 1 | 0 | 0 | 0 | 11 | 3 | 0 |
| March | 5.9 | NW. | 33 | SW. | 0 | 11 | 12 | 6 | 2 | 1 | 9 | 9 | 12 | 0 | 8 | 9 | 14 | 14 | 11 | 1 | 0 | 0 | 0 | 0 | 5 | 7 | 0 |
| April | 6.9 | SW. | 48 | SW. | 1 | 8 | 11 | 2 | 2 | 4 | 22 | 5 | 6 | 0 | 13 | 7 | 10 | 12 | 10 | 0 | 1 | 1 | 0 | 0 | 0 | 7 | 0 |
| May | 5.1 | SW. | 29 | SW. | 0 | 6 | 13 | 10 | 3 | 3 | 21 | 5 | 0 | 1 | 9 | 14 | 8 | 15 | 13 | 0 | 1 | 0 | 0 | 0 | 0 | 13 | 0 |
| June | 4.2 | SW. | 25 | SW. | 0 | 8 | 16 | 8 | 2 | 3 | 17 | 4 | 0 | 2 | 5 | 10 | 15 | 17 | 17 | 0 | 0 | 0 | 0 | 1 | 0 | 14 | 0 |
| July | 4.3 | SW. | 27 | NW. | 0 | 7 | 13 | 10 | 5 | 1 | 14 | 6 | 4 | 2 | 8 | 11 | 12 | 14 | 13 | 0 | 1 | 0 | 0 | 1 | 0 | 10 | 0 |
| August | 3.6 | NE. | 25 | N. | 0 | 9 | 26 | 6 | 1 | 1 | 6 | 5 | 4 | 4 | 10 | 16 | 5 | 7 | 6 | 0 | 0 | 0 | 0 | 4 | 0 | 6 | 0 |
| September | 4.8 | NE. | 22 | SE. | 0 | 8 | 27 | 6 | 3 | 3 | 11 | 0 | 1 | 1 | 13 | 8 | 9 | 8 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| October | 4.3 | N. | 31 | W. | 0 | 15 | 8 | 2 | 3 | 2 | 16 | 6 | 6 | 3 | 18 | 9 | 4 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 |
| November | 4.4 | SW. | 27 | SW. | 0 | 7 | 11 | 10 | 5 | 1 | 15 | 1 | 4 | 6 | 15 | 13 | 2 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 0 |
| December | 5.4 | SW. | 27 | W. | 0 | 8 | 14 | 6 | 0 | 0 | 19 | 10 | 4 | 1 | 8 | 14 | 9 | 8 | 8 | 3 | 0 | 4 | 7 | 0 | 24 | 1 | 0 |
| Year | 5.1 | SW. | 48 | SW. | 2 | 98 | 173 | 80 | 33 | 30 | 176 | 72 | 48 | 20 | 120 | 120 | 125 | 126 | 112 | 4 | 4 | 7 | 10 | 6 | 57 | 69 | 0 |

## LA CROSSE, WIS.

[H=714 ft.; $h_t$=11 ft.; $h_r$=3 ft.; $h_a$=48 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 6.3 | S. | 24 | S. | 0 | 4 | 1 | 0 | 2 | 11 | 2 | 4 | 7 | 0 | 7 | 7 | 17 | 8 | 4 | 4 | 0 | 3 | 17 | 0 | 28 | 2 | 1 |
| February | 5.4 | S. | 21 | SW. | 0 | 2 | 2 | 1 | 2 | 11 | 3 | 0 | 7 | 0 | 3 | 8 | 17 | 11 | 9 | 11 | 0 | 0 | 13 | 0 | 28 | 0 | 0 |
| March | 5.7 | NW. | 24 | NW. | 0 | 6 | 1 | 0 | 3 | 3 | 3 | 6 | 9 | 0 | 6 | 10 | 15 | 6 | 4 | 5 | 0 | 1 | 7 | 0 | 29 | 0 | 0 |
| April | 7.3 | NW. | 32 | NW. | 0 | 6 | 4 | 2 | 3 | 2 | 3 | 2 | 8 | 0 | 2 | 14 | 14 | 16 | 15 | 6 | 2 | 0 | 0 | 0 | 10 | 7 | 0 |
| May | 6.1 | SE. | 24 | NW. | 0 | 3 | 3 | 3 | 6 | 4 | 4 | 5 | 3 | 0 | 5 | 11 | 15 | 10 | 6 | 1 | 0 | 0 | 0 | 1 | 5 | 5 | 0 |
| June | 3.9 | S. | 17 | E. | 0 | 6 | 3 | 4 | 2 | 9 | 3 | 3 | 0 | 0 | 11 | 6 | 13 | 13 | 9 | 0 | 1 | 0 | 0 | 3 | 0 | 7 | 0 |
| July | 4.6 | S. | 20 | NW. | 0 | 3 | 2 | 2 | 3 | 15 | 3 | 3 | 0 | 0 | 10 | 11 | 10 | 5 | 3 | 0 | 0 | 0 | 0 | 5 | 0 | 3 | 0 |
| August | 4.2 | S. | 14 | S. | 0 | 5 | 2 | 0 | 8 | 10 | 2 | 3 | 1 | 0 | 14 | 8 | 9 | 11 | 9 | 0 | 0 | 0 | 0 | 9 | 0 | 11 | 0 |
| September | 8.5 | S. | 17 | SW. | 0 | 3 | 1 | 0 | 6 | 9 | 1 | 2 | 3 | 5 | 11 | 7 | 12 | 9 | 8 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 |
| October | 5.3 | S. | 20 | NW. | 0 | 4 | 0 | 0 | 3 | 9 | 6 | 5 | 3 | 1 | 11 | 6 | 14 | 7 | 6 | 2 | 0 | 3 | 0 | 0 | 12 | 2 | 1 |
| November | 6.0 | S. | 24 | SW. | 0 | 6 | 1 | 0 | 7 | 9 | 1 | 1 | 5 | 0 | 6 | 7 | 17 | 11 | 11 | 3 | 0 | 1 | 3 | 0 | 14 | 2 | 0 |
| December | 5.4 | SW. | 18 | SW. | 0 | 0 | 3 | 1 | 2 | 6 | 7 | 6 | 6 | 0 | 3 | 9 | 19 | 14 | 10 | 11 | 0 | 0 | 26 | 0 | 28 | 0 | 0 |
| Year | 5.3 | S. | 32 | NW. | 0 | 48 | 23 | 13 | 47 | 98 | 38 | 40 | 52 | 6 | 89 | 104 | 172 | 121 | 94 | 43 | 3 | 12 | 66 | 18 | 154 | 43 | 2 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

LANDER, WYO.

[$\phi$=42° 50′ N.; $\lambda$=108° 45′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 24.513 | 25.055 | 24.025 | 17.9 | 29.2 | 38.7 | 10.2 | 24.4 | 55 | −15 | 11 | 19 | 74 | 67 | 0.078 | 0.110 | 0.43 | 0.40 | 3.7 | 5.2 | 5.2 |
| February | 24.501 | 24.921 | 24.128 | 16.3 | 30.9 | 39.1 | 9.9 | 24.5 | 54 | −24 | 10 | 20 | 76 | 64 | .069 | .107 | .76 | .60 | 3.3 | 5.9 | 5.2 |
| March | 24.546 | 24.856 | 24.177 | 22.8 | 38.5 | 42.1 | 19.1 | 30.6 | 57 | −15 | 16 | 23 | 74 | 56 | .093 | .125 | 2.34 | .79 | 4.5 | 5.6 | 5.6 |
| April | 24.555 | 25.046 | 24.188 | 28.2 | 46.2 | 50.2 | 24.1 | 37.2 | 68 | 6 | 21 | 22 | 73 | 42 | .109 | .114 | 2.01 | .78 | 5.6 | 5.4 | 5.1 |
| May | 24.551 | 24.799 | 24.255 | 37.4 | 57.2 | 61.1 | 32.7 | 46.9 | 73 | 19 | 29 | 27 | 72 | 35 | .162 | .154 | 1.44 | .96 | 5.0 | 5.1 | 5.1 |
| June | 24.668 | 24.883 | 24.407 | 49.9 | 73.3 | 77.5 | 44.3 | 60.9 | 90 | 33 | 40 | 37 | 70 | 30 | .250 | .228 | .64 | .29 | 4.3 | 5.8 | 4.7 |
| July | 24.681 | 24.981 | 24.405 | 55.8 | 82.2 | 85.7 | 51.3 | 68.5 | 96 | 41 | 43 | 38 | 64 | 24 | .284 | .248 | .31 | .16 | 2.3 | 3.5 | 3.3 |
| August | 24.724 | 24.967 | 24.568 | 54.3 | 79.6 | 85.4 | 50.9 | 68.2 | 96 | 39 | 44 | 45 | 69 | 33 | .290 | .313 | 1.33 | 1.17 | 2.9 | 4.1 | 4.3 |
| September | 24.732 | 24.989 | 24.429 | 44.7 | 66.8 | 71.7 | 41.1 | 56.4 | 83 | 25 | 36 | 38 | 75 | 39 | .227 | .246 | .76 | .29 | 3.1 | 5.0 | 4.6 |
| October | 24.702 | 25.022 | 24.351 | 32.9 | 53.5 | 62.3 | 27.6 | 45.0 | 78 | 16 | 24 | 26 | 70 | 37 | .130 | .145 | .55 | .31 | 3.6 | 4.2 | 4.2 |
| November | 24.619 | 25.006 | 24.182 | 25.5 | 38.4 | 46.9 | 19.7 | 33.3 | 67 | − 4 | 17 | 22 | 70 | 55 | .098 | .120 | 1.42 | .70 | 3.9 | 4.9 | 5.7 |
| December | 24.609 | 24.941 | 24.180 | .2 | 5.6 | 15.2 | −7.8 | 3.7 | 44 | −30 | −2 | 2 | 88 | 85 | .043 | .050 | 2.06 | .84 | 3.8 | 4.5 | 5.7 |
| Year | 24.617 | 25.055 | 24.025 | 32.2 | 50.1 | 56.3 | 26.9 | 41.6 | 96 | −30 | 24 | 27 | 73 | 47 | .153 | .163 | 14.05 | 1.17 | 3.8 | 4.9 | 4.9 |

LA SALLE, ILL.

[$\phi$=41° 20′ N.; $\lambda$=89° 05′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.579 | 30.016 | 28.430 | 23.8 | ..... | 34.5 | 18.9 | 26.7 | 68 | −11 | 20 | .... | 85 | .... | 0.128 | ..... | 1.28 | 0.81 | 7.8 | ..... | 7.7 |
| February | 29.355 | 29.976 | 28.753 | 26.8 | ..... | 40.4 | 23.0 | 31.7 | 60 | 9 | 24 | .... | 88 | .... | .138 | ..... | 3.06 | .82 | 7.0 | ..... | 6.5 |
| March | 29.374 | 29.907 | 28.900 | 30.7 | ..... | 43.9 | 28.5 | 36.2 | 59 | 12 | 27 | .... | 85 | .... | .148 | ..... | 1.40 | .75 | 4.9 | ..... | 6.1 |
| April | 29.396 | 29.861 | 28.671 | 42.2 | ..... | 57.2 | 37.4 | 47.3 | 84 | 22 | 35 | .... | 76 | .... | .216 | ..... | 5.93 | 1.32 | 6.7 | ..... | 6.7 |
| May | 29.338 | 29.674 | 29.000 | 53.1 | ..... | 68.9 | 48.4 | 58.6 | 86 | 31 | 45 | .... | 75 | .... | .319 | ..... | 3.05 | .99 | 4.9 | ..... | 5.1 |
| June | 29.429 | 29.762 | 29.203 | 63.9 | ..... | 79.7 | 59.6 | 69.6 | 90 | 46 | 59 | .... | 85 | .... | .618 | ..... | 2.33 | .81 | 6.0 | ..... | 6.7 |
| July | 29.419 | 29.765 | 29.125 | 66.7 | ..... | 81.7 | 61.8 | 71.8 | 95 | 49 | 61 | .... | 82 | .... | .545 | ..... | 2.52 | .83 | 4.9 | ..... | 5.0 |
| August | 29.473 | 29.726 | 29.229 | 68.7 | ..... | 86.6 | 64.6 | 75.6 | 94 | 51 | 63 | .... | 83 | .... | .589 | ..... | 4.00 | 1.48 | 3.9 | ..... | 3.9 |
| September | 29.557 | 30.002 | 29.201 | 54.9 | ..... | 74.2 | 52.8 | 63.5 | 91 | 39 | 52 | .... | 89 | .... | .399 | ..... | 3.15 | 1.35 | 3.9 | ..... | 4.3 |
| October | 29.524 | 30.046 | 29.008 | 41.0 | ..... | 60.0 | 38.7 | 49.4 | 82 | 24 | 36 | .... | 83 | .... | .222 | ..... | 1.53 | 1.18 | 4.5 | ..... | 4.5 |
| November | 29.531 | 29.963 | 29.078 | 42.8 | ..... | 56.7 | 37.6 | 47.2 | 72 | 20 | 39 | .... | 85 | .... | .250 | ..... | 3.82 | 1.10 | 6.3 | ..... | 6.2 |
| December | 29.448 | 29.937 | 28.975 | 16.5 | ..... | 26.1 | 11.9 | 19.0 | 55 | −10 | 13 | .... | 86 | .... | .101 | ..... | 3.64 | 1.14 | 6.8 | ..... | 6.8 |
| Year | 29.452 | 30.046 | 28.430 | 44.3 | ..... | 59.2 | 40.3 | 49.7 | 95 | −11 | 40 | .... | 84 | .... | .298 | ..... | 35.71 | 1.48 | 5.6 | ..... | 5.8 |

LEWISTON, IDAHO.

[$\phi$=46° 25′ N.; $\lambda$=117° 2′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.147 | 29.800 | 28.399 | 24.3 | ..... | 32.8 | 20.5 | 26.6 | 53 | −10 | 21 | .... | 86 | .... | 0.124 | ..... | 1.91 | 0.64 | 6.7 | ..... | 7.5 |
| February | 29.106 | 29.518 | 28.807 | 36.3 | ..... | 48.0 | 34.9 | 41.4 | 54 | 29 | 32 | .... | 84 | .... | .180 | ..... | .85 | .21 | 8.5 | ..... | 8.2 |
| March | 29.196 | 29.543 | 28.832 | 37.6 | ..... | 58.1 | 35.6 | 46.8 | 70 | 28 | 33 | .... | 84 | .... | .189 | ..... | 1.02 | .37 | 6.1 | ..... | 6.2 |
| April | 29.267 | 29.777 | 28.984 | 41.5 | ..... | 61.3 | 38.9 | 50.1 | 71 | 28 | 32 | .... | 70 | .... | .180 | ..... | .75 | .41 | 7.6 | ..... | 6.4 |
| May | 29.162 | 29.456 | 28.861 | 48.0 | ..... | 69.1 | 46.4 | 57.8 | 88 | 35 | 40 | .... | 74 | .... | .249 | ..... | 1.32 | .80 | 7.7 | ..... | 6.5 |
| June | 29.160 | 29.367 | 28.911 | 55.6 | ..... | 79.4 | 54.3 | 66.8 | 97 | 45 | 46 | .... | 73 | .... | .321 | ..... | .48 | .32 | 5.7 | ..... | 5.9 |
| July | 29.138 | 29.383 | 28.716 | 58.5 | ..... | 85.0 | 57.9 | 71.4 | 102 | 49 | 49 | .... | 72 | .... | .349 | ..... | 2.59 | 1.87 | 4.1 | ..... | 4.1 |
| August | 29.153 | 29.375 | 28.950 | 56.4 | ..... | 88.2 | 55.5 | 71.8 | 105 | 45 | 45 | .... | 66 | .... | .300 | ..... | T. | T. | 1.4 | ..... | 1.6 |
| September | 29.194 | 29.496 | 28.952 | 54.7 | ..... | 78.6 | 52.4 | 65.5 | 93 | 41 | 48 | .... | 78 | .... | .336 | ..... | 1.43 | .64 | 5.1 | ..... | 5.6 |
| October | 29.265 | 29.562 | 28.882 | 43.0 | ..... | 64.6 | 41.1 | 52.8 | 75 | 30 | 40 | .... | 90 | .... | .253 | ..... | .85 | .33 | 4.0 | ..... | 5.9 |
| November | 29.188 | 29.657 | 28.786 | 41.5 | ..... | 51.2 | 37.2 | 44.2 | 67 | 20 | 38 | .... | 87 | .... | .238 | ..... | 3.49 | .78 | 8.4 | ..... | 8.3 |
| December | 29.362 | 29.858 | 28.543 | 30.1 | ..... | 37.3 | 27.5 | 32.4 | 55 | 16 | 28 | .... | 90 | .... | .161 | ..... | .63 | .26 | 8.8 | ..... | 8.4 |
| Year | 29.195 | 29.858 | 28.399 | 44.0 | ..... | 62.8 | 41.8 | 52.3 | 105 | −10 | 38 | .... | 80 | .... | .239 | ..... | 15.32 | 1.87 | 6.2 | ..... | 6.2 |

LEXINGTON, KY.

[$\phi$=38° 2′ N.; $\lambda$=84° 33′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.078 | 29.405 | 28.172 | 34.1 | ..... | 44.6 | 29.7 | 37.2 | 68 | 2 | 30 | .... | 85 | .... | 0.183 | ..... | 3.35 | 0.65 | 7.6 | ..... | 8.1 |
| February | 28.910 | 29.549 | 28.413 | 35.9 | ..... | 50.3 | 31.7 | 41.0 | 68 | 6 | 31 | .... | 82 | .... | .186 | ..... | 6.86 | 3.04 | 6.0 | ..... | 6.1 |
| March | 28.873 | 29.325 | 28.541 | 36.8 | ..... | 51.2 | 34.0 | 42.6 | 66 | 21 | 30 | .... | 77 | .... | .176 | ..... | 3.97 | 1.41 | 5.8 | ..... | 6.8 |
| April | 28.972 | 29.363 | 28.540 | 48.9 | ..... | 64.4 | 43.4 | 53.9 | 83 | 25 | 40 | .... | 73 | .... | .271 | ..... | 6.72 | 3.24 | 4.9 | ..... | 4.7 |
| May | 28.886 | 29.155 | 28.711 | 58.0 | ..... | 70.9 | 52.8 | 61.8 | 82 | 33 | 51 | .... | 78 | .... | .390 | ..... | 4.15 | .85 | 5.0 | ..... | 5.0 |
| June | 28.960 | 29.173 | 28.704 | 69.0 | ..... | 81.1 | 64.5 | 72.8 | 90 | 55 | 64 | .... | 84 | .... | .599 | ..... | 5.41 | 1.58 | 5.9 | ..... | 5.4 |
| July | 28.949 | 29.293 | 28.751 | 68.7 | ..... | 80.9 | 64.5 | 72.7 | 89 | 55 | 64 | .... | 85 | .... | .599 | ..... | 5.98 | 2.11 | 5.5 | ..... | 5.5 |
| August | 28.985 | 29.240 | 28.682 | 69.2 | ..... | 83.8 | 65.2 | 74.5 | 92 | 55 | 64 | .... | 85 | .... | .612 | ..... | 1.26 | .65 | 3.3 | ..... | 2.3 |
| September | 29.053 | 29.281 | 28.869 | 59.8 | ..... | 75.2 | 56.1 | 65.6 | 87 | 38 | 55 | .... | 85 | .... | .454 | ..... | 4.88 | 2.14 | 4.1 | ..... | 4.5 |
| October | 29.056 | 29.435 | 28.689 | 46.0 | ..... | 63.3 | 42.4 | 52.8 | 79 | 27 | 42 | .... | 86 | .... | .274 | ..... | 2.05 | 1.13 | 3.6 | ..... | 4.2 |
| November | 29.144 | 29.366 | 28.681 | 47.2 | ..... | 62.2 | 43.7 | 53.0 | 77 | 25 | 42 | .... | 82 | .... | .281 | ..... | 1.96 | .82 | 5.9 | ..... | 5.7 |
| December | 28.977 | 29.402 | 28.447 | 25.2 | ..... | 35.8 | 19.9 | 27.8 | 65 | − 4 | 21 | .... | 85 | .... | .129 | ..... | 2.77 | .78 | 7.2 | ..... | 7.2 |
| Year | 28.987 | 29.549 | 28.172 | 49.9 | ..... | 63.6 | 45.7 | 54.6 | 92 | − 4 | 44 | .... | 82 | .... | .346 | ..... | 49.36 | 3.24 | 5.4 | ..... | 5.3 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

## LANDER, WYO.

[H=5,372 ft.; $h_t$=26 ft.; $h_r$=18 ft.; $h_a$=36 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 4.5 | NE. | 28 | SW. | 0 | 4 | 15 | 4 | 4 | 4 | 13 | 9 | 8 | 1 | 6 | 20 | 5 | 4 | 1 | 4 | 0 | 0 | 10 | 0 | 29 | 0 | 0 |
| February | 3.6 | NW. | 27 | NE. | 0 | 6 | 5 | 1 | 4 | 8 | 11 | 8 | 13 | 0 | 7 | 16 | 5 | 4 | 2 | 4 | 0 | 0 | 6 | 0 | 28 | 0 | 0 |
| March | 3.2 | NE. | 28 | W. | 0 | 6 | 10 | 0 | 3 | 6 | 8 | 14 | 12 | 3 | 10 | 10 | 11 | 10 | 8 | 9 | 0 | 0 | 6 | 0 | 30 | 0 | 0 |
| April | 5.3 | SW. | 34 | SW. | 0 | 4 | 8 | 3 | 3 | 11 | 12 | 12 | 6 | 1 | 8 | 16 | 6 | 8 | 5 | 8 | 0 | 0 | 1 | 0 | 27 | 0 | 0 |
| May | 5.5 | NW. | 26 | NW. | 0 | 5 | 7 | 3 | 4 | 5 | 10 | 11 | 17 | 0 | 9 | 18 | 4 | 10 | 6 | 1 | 0 | 0 | 0 | 0 | 16 | 4 | 1 |
| June | 4.2 | SW. | 26 | S. | 0 | 4 | 5 | 1 | 9 | 6 | 14 | 7 | 14 | 0 | 8 | 18 | 4 | 9 | 4 | 0 | 2 | 0 | 0 | 2 | 0 | 6 | 0 |
| July | 3.8 | SW. | 32 | S. | 0 | 3 | 5 | 1 | 4 | 6 | 13 | 20 | 10 | 0 | 16 | 14 | 1 | 4 | 3 | 0 | 0 | 0 | 0 | 7 | 0 | 2 | 0 |
| August | 3.4 | W. | 25 | NW. | 0 | 5 | 9 | 0 | 3 | 4 | 14 | 11 | 16 | 0 | 11 | 18 | 2 | 7 | 4 | 0 | 0 | 0 | 0 | 5 | 0 | 4 | 0 |
| September | 3.3 | SW. | 24 | NW. | 0 | 5 | 4 | 1 | 4 | 11 | 11 | 13 | 10 | 1 | 10 | 16 | 4 | 8 | 4 | 1 | 0 | 0 | 0 | 0 | 5 | 3 | 0 |
| October | 3.3 | SW. | 32 | SE. | 0 | 6 | 10 | 5 | 1 | 11 | 12 | 9 | 8 | 0 | 9 | 20 | 2 | 4 | 3 | 2 | 0 | 0 | 0 | 0 | 23 | 1 | 0 |
| November | 4.1 | SW. | 26 | SW. | 0 | 5 | 6 | 2 | 3 | 6 | 14 | 15 | 9 | 0 | 7 | 16 | 7 | 4 | 4 | 4 | 0 | 0 | 8 | 0 | 27 | 0 | 0 |
| December | 2.1 | NE. | 16 | N. | 0 | 5 | 25 | 10 | 10 | 2 | 1 | 1 | 5 | 3 | 6 | 16 | 9 | 7 | 5 | 7 | 0 | 1 | 29 | 0 | 31 | 0 | 0 |
| Year | 3.9 | SW. | 34 | SW. | 0 | 58 | 109 | 31 | 52 | 80 | 133 | 130 | 128 | 9 | 107 | 198 | 60 | 79 | 49 | 40 | 2 | 1 | 60 | 14 | 216 | 20 | 1 |

## LA SALLE, ILL.

[H=536 ft.; $h_t$=56 ft.; $h_r$=49 ft.; $h_a$=64 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 8.9 | NW. | 39 | NW. | 0 | 2 | 6 | 4 | 1 | 2 | 5 | 5 | 6 | 0 | 2 | 9 | 20 | 10 | 6 | 6 | 0 | 0 | 12 | 0 | 25 | 2 | 0 |
| February | 10.4 | SW. | 39 | SW. | 0 | 2 | 4 | 2 | 4 | 1 | 5 | 8 | 2 | 0 | 4 | 12 | 12 | 11 | 11 | 4 | 0 | 0 | 4 | 0 | 22 | 1 | 0 |
| March | 10.1 | W. | 30 | SW. | 0 | 0 | 5 | 6 | 1 | 1 | 1 | 9 | 8 | 0 | 6 | 15 | 10 | 6 | 6 | 4 | 0 | 0 | 1 | 0 | 22 | 0 | 0 |
| April | 12.0 | W. | 60 | SW. | 3 | 1 | 3 | 6 | 2 | 6 | 0 | 7 | 5 | 0 | 6 | 9 | 15 | 15 | 10 | 2 | 3 | 1 | 0 | 0 | 5 | 5 | 0 |
| May | 9.6 | NE. | 39 | SW. | 0 | 2 | 6 | 5 | 5 | 3 | 2 | 7 | 1 | 0 | 11 | 11 | 9 | 13 | 8 | 1 | 0 | 0 | 0 | 0 | 1 | 6 | 0 |
| June | 6.2 | NE. | 26 | SW. | 0 | 3 | 10 | 2 | 0 | 2 | 6 | 2 | 4 | 1 | 5 | 11 | 14 | 13 | 9 | 0 | 1 | 2 | 0 | 1 | 0 | 12 | 0 |
| July | 6.8 | SW. | 32 | SW. | 0 | 1 | 6 | 9 | 1 | 1 | 7 | 4 | 2 | 0 | 12 | 12 | 7 | 10 | 7 | 0 | 0 | 0 | 0 | 3 | 0 | 4 | 0 |
| August | 5.0 | SW. | 31 | NE. | 0 | 3 | 8 | 5 | 2 | 1 | 7 | 3 | 2 | 0 | 15 | 9 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 12 | 0 | 8 | 0 |
| September | 5.6 | NE. | 28 | SW. | 0 | 2 | 9 | 7 | 0 | 1 | 2 | 4 | 5 | 0 | 16 | 5 | 9 | 7 | 6 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 0 |
| October | 8.4 | W. | 36 | W. | 0 | 4 | 4 | 4 | 2 | 3 | 3 | 10 | 0 | 1 | 15 | 7 | 9 | 7 | 6 | 0 | 0 | 2 | 0 | 0 | 9 | 1 | 1 |
| November | 10.0 | SW. | 35 | SW. | 0 | 2 | 5 | 3 | 7 | 3 | 4 | 4 | 2 | 0 | 9 | 8 | 13 | 12 | 10 | 0 | 0 | 0 | 1 | 0 | 8 | 2 | 0 |
| December | 9.5 | W. | 39 | W. | 0 | 2 | 2 | 2 | 3 | 2 | 2 | 16 | 2 | 0 | 4 | 14 | 13 | 14 | 11 | 12 | 0 | 0 | 23 | 0 | 27 | 1 | 0 |
| Year | 8.5 | W. | 60 | SW. | 3 | 24 | 68 | 55 | 28 | 26 | 44 | 79 | 39 | 2 | 105 | 122 | 138 | 125 | 97 | 29 | 4 | 6 | 41 | 17 | 119 | 45 | 1 |

## LEWISTON, IDAHO.

[H=757 ft.; $h_t$=10 ft.; $h_r$=4 ft.; $h_a$=51 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 5.6 | E. | 47 | W. | 1 | 0 | 2 | 20 | 2 | 1 | 3 | 2 | 0 | 1 | 4 | 6 | 21 | 14 | 10 | 8 | 0 | 0 | 11 | 0 | 23 | 0 | 0 |
| February | 5.3 | E. | 40 | NW. | 1 | 0 | 3 | 19 | 2 | 0 | 1 | 3 | 0 | 0 | 0 | 9 | 19 | 13 | 8 | 2 | 0 | 0 | 0 | 0 | 7 | 0 | 0 |
| March | 5.0 | E. | 45 | NW. | 1 | 0 | 1 | 14 | 4 | 4 | 1 | 2 | 1 | 4 | 7 | 10 | 14 | 7 | 6 | 0 | 1 | 0 | 0 | 0 | 8 | 1 | 0 |
| April | 8.9 | W. | 40 | W. | 1 | 0 | 1 | 14 | 2 | 2 | 2 | 7 | 1 | 1 | 6 | 8 | 16 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 |
| May | 5.7 | E. | 52 | W. | 2 | 0 | 7 | 11 | 3 | 3 | 3 | 2 | 1 | 1 | 6 | 10 | 15 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 |
| June | 5.8 | E. | 46 | W. | 1 | 1 | 3 | 20 | 4 | 1 | 0 | 0 | 1 | 0 | 7 | 11 | 12 | 6 | 2 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 0 |
| July | 6.2 | E. | 39 | W. | 0 | 1 | 2 | 26 | 0 | 0 | 1 | 0 | 0 | 1 | 16 | 9 | 6 | 8 | 6 | 0 | 0 | 0 | 0 | 11 | 0 | 5 | 0 |
| August | 5.7 | E. | 48 | W. | 1 | 0 | 1 | 22 | 5 | 1 | 2 | 0 | 0 | 0 | 26 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 |
| September | 4.8 | E. | 40 | W. | 1 | 0 | 2 | 15 | 7 | 1 | 1 | 3 | 0 | 1 | 10 | 8 | 12 | 7 | 5 | 0 | 0 | 0 | 0 | 6 | 0 | 3 | 0 |
| October | 3.8 | E. | 35 | W. | 0 | 0 | 0 | 15 | 8 | 4 | 3 | 0 | 0 | 1 | 8 | 9 | 14 | 11 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| November | 5.7 | E. | 39 | NW. | 0 | 0 | 4 | 9 | 4 | 2 | 2 | 9 | 0 | 0 | 1 | 7 | 22 | 19 | 15 | 0 | 0 | 0 | 0 | 0 | 7 | 1 | 1 |
| December | 4.9 | E. | 26 | NE. | 0 | 0 | 2 | 18 | 2 | 0 | 2 | 6 | 0 | 1 | 2 | 5 | 24 | 10 | 4 | 7 | 0 | 1 | 6 | 0 | 26 | 0 | 0 |
| Year | 5.6 | E. | 52 | W. | 9 | 2 | 28 | 203 | 43 | 19 | 21 | 34 | 4 | 11 | 93 | 94 | 178 | 108 | 70 | 17 | 1 | 1 | 17 | 35 | 77 | 14 | 1 |

## LEXINGTON, KY.

[H=989 ft.; $h_t$=75 ft.; $h_r$=68 ft.; $h_a$=102 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 12.4 | S. | 48 | SW. | 1 | 2 | 5 | 3 | 3 | 9 | 2 | 2 | 5 | 0 | 3 | 5 | 23 | 14 | 11 | 5 | 0 | 4 | 6 | 0 | 17 | 1 | 0 |
| February | 14.4 | SW. | 38 | W. | 0 | 0 | 0 | 2 | 4 | 10 | 4 | 7 | 1 | 0 | 9 | 4 | 15 | 13 | 13 | 2 | 0 | 0 | 1 | 0 | 18 | 4 | 0 |
| March | 12.8 | NW. | 44 | NW. | 2 | 1 | 3 | 3 | 3 | 5 | 2 | 6 | 8 | 0 | 6 | 7 | 18 | 14 | 10 | 1 | 0 | 1 | 0 | 0 | 15 | 4 | 0 |
| April | 13.2 | SW. | 64 | SW. | 7 | 3 | 1 | 2 | 4 | 8 | 7 | 3 | 2 | 0 | 15 | 6 | 9 | 12 | 11 | 1 | 1 | 0 | 0 | 0 | 3 | 7 | 0 |
| May | 10.6 | NE. | 36 | W. | 0 | 0 | 6 | 5 | 2 | 7 | 6 | 3 | 2 | 0 | 11 | 10 | 10 | 14 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 |
| June | 7.3 | S. | 35 | N. | 0 | 1 | 4 | 3 | 4 | 7 | 9 | 1 | 1 | 0 | 6 | 16 | 8 | 18 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 |
| July | 7.7 | SW. | 38 | NW. | 0 | 0 | 2 | 7 | 5 | 5 | 6 | 3 | 3 | 0 | 15 | 12 | 4 | 18 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 |
| August | 6.6 | NE. | 27 | W. | 0 | 2 | 7 | 3 | 5 | 5 | 4 | 2 | 3 | 0 | 21 | 10 | 0 | 5 | 4 | 0 | 0 | 0 | 0 | 3 | 0 | 8 | 0 |
| September | 7.6 | N. | 40 | NW. | 1 | 7 | 5 | 6 | 3 | 4 | 3 | 2 | 0 | 0 | 15 | 8 | 7 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| October | 10.0 | SE. | 42 | N. | 1 | 0 | 5 | 2 | 9 | 4 | 5 | 5 | 1 | 0 | 17 | 5 | 9 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 |
| November | 11.4 | S. | 44 | W. | 1 | 3 | 1 | 3 | 7 | 11 | 2 | 3 | 0 | 0 | 9 | 10 | 11 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | 0 |
| December | 11.8 | W. | 40 | SW. | 1 | 0 | 0 | 1 | 7 | 4 | 5 | 12 | 2 | 0 | 6 | 5 | 20 | 10 | 9 | 5 | 0 | 2 | 13 | 0 | 26 | 0 | 0 |
| Year | 10.5 | S. | 64 | SW. | 14 | 19 | 39 | 40 | 56 | 79 | 55 | 49 | 28 | 0 | 133 | 98 | 134 | 139 | 116 | 14 | 1 | 7 | 20 | 3 | 90 | 68 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

LINCOLN, NEBR.

[$\phi$=40° 49′ N.; $\lambda$=96° 45′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 28.840 | 29.314 | 28.092 | 19.1 | 24.8 | 32.7 | 13.9 | 23.3 | 63 | −14 | 14 | 17 | 79 | 71 | 0.099 | 0.108 | 0.85 | 0.59 | 7.2 | 6.3 | 6.8 |
| February | 28.640 | 29.228 | 28.057 | 22.8 | 34.2 | 42.9 | 19.5 | 31.2 | 67 | − 6 | 18 | 24 | 78 | 67 | .104 | .138 | 1.13 | .72 | 5.2 | 6.0 | 5.2 |
| March | 28.716 | 29.212 | 28.325 | 28.5 | 40.2 | 46.7 | 26.3 | 36.5 | 71 | 16 | 24 | 28 | 83 | 62 | .130 | .157 | .95 | .24 | 5.7 | 5.8 | 5.5 |
| April | 28.651 | 29.229 | 28.034 | 38.2 | 52.0 | 58.7 | 34.0 | 46.4 | 87 | 23 | 31 | 30 | 77 | 47 | .183 | .178 | 1.08 | .27 | 6.4 | 6.3 | 6.2 |
| May | 28.577 | 28.884 | 28.115 | 51.4 | 66.9 | 72.6 | 48.2 | 60.4 | 97 | 25 | 43 | 43 | 74 | 48 | .301 | .308 | 5.63 | 2.99 | 5.0 | 6.4 | 5.3 |
| June | 28.689 | 28.951 | 28.505 | 64.6 | 76.3 | 81.0 | 61.6 | 71.3 | 92 | 51 | 60 | 62 | 87 | 62 | .532 | .562 | 3.08 | 1.34 | 7.7 | 5.5 | 7.0 |
| July | 28.689 | 28.948 | 28.385 | 68.6 | 80.9 | 86.2 | 66.3 | 76.2 | 96 | 55 | 65 | 66 | 87 | 63 | .616 | .649 | 4.87 | 2.89 | 4.5 | 5.2 | 5.6 |
| August | 28.726 | 29.139 | 28.501 | 70.3 | 85.6 | 92.1 | 68.1 | 80.1 | 103 | 47 | 62 | 63 | 77 | 49 | .581 | .598 | 1.24 | 1.10 | 4.4 | 3.6 | 4.3 |
| September | 28.800 | 29.186 | 28.342 | 56.8 | 69.2 | 77.5 | 55.0 | 66.2 | 96 | 41 | 52 | 54 | 85 | 62 | .408 | .445 | 4.69 | 1.65 | 4.7 | 3.8 | 4.8 |
| October | 28.762 | 29.260 | 28.299 | 44.9 | 57.2 | 66.0 | 41.8 | 53.9 | 91 | 21 | 38 | 38 | 77 | 51 | .241 | .239 | 1.49 | 1.09 | 5.1 | 4.8 | 5.4 |
| November | 28.789 | 29.297 | 28.297 | 38.3 | 45.8 | 53.7 | 34.8 | 44.2 | 80 | 15 | 35 | 38 | 87 | 75 | .223 | .242 | 7.14 | 3.29 | 5.8 | 4.8 | 7.0 |
| December | 28.795 | 29.105 | 28.268 | 13.0 | 16.4 | 22.5 | 7.8 | 15.2 | 49 | −12 | 10 | 13 | 84 | 85 | .079 | .085 | 2.59 | 1.18 | 6.4 | 5.7 | 6.4 |
| Year | 28.723 | 29.314 | 28.034 | 43.0 | 54.1 | 61.0 | 39.8 | 50.4 | 103 | −14 | 38 | 40 | 81 | 62 | .291 | .309 | 34.74 | 3.29 | 5.7 | 5.4 | 5.8 |

LITTLE ROCK, ARK.

[$\phi$=34° 45′ N.; $\lambda$=92° 6′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.784 | 30.205 | 29.094 | 40.9 | 46.9 | 50.9 | 36.8 | 43.8 | 74 | 13 | 35 | 37 | 79 | 70 | 0.233 | 0.260 | 0.71 | 0.41 | 8.5 | 6.6 | 7.7 |
| February | 29.615 | 30.226 | 29.144 | 43.0 | 53.5 | 59.7 | 39.2 | 49.4 | 74 | 19 | 35 | 36 | 73 | 53 | .228 | .233 | 5.18 | 2.08 | 6.1 | 4.2 | 4.4 |
| March | 29.563 | 30.010 | 29.049 | 47.4 | 58.4 | 63.0 | 45.4 | 54.2 | 78 | 32 | 38 | 39 | 72 | 52 | .248 | .256 | 3.70 | 1.82 | 6.1 | 6.0 | 5.0 |
| April | 29.619 | 30.026 | 29.100 | 55.6 | 66.7 | 71.1 | 52.3 | 61.7 | 83 | 37 | 46 | 47 | 72 | 53 | .337 | .352 | 4.23 | 1.77 | 5.3 | 4.6 | 4.0 |
| May | 29.526 | 29.867 | 29.231 | 62.0 | 72.2 | 76.2 | 59.0 | 67.6 | 85 | 40 | 56 | 57 | 82 | 63 | .478 | .507 | 4.51 | 1.39 | 6.3 | 5.0 | 5.3 |
| June | 29.602 | 29.784 | 29.360 | 72.4 | 79.5 | 85.9 | 69.6 | 77.8 | 93 | 62 | 67 | 68 | 85 | 70 | .674 | .701 | 2.81 | 1.22 | 6.6 | 5.9 | 5.1 |
| July | 29.589 | 29.855 | 29.401 | 76.3 | 86.5 | 91.8 | 73.1 | 82.4 | 98 | 66 | 69 | 69 | 79 | 58 | .717 | .722 | 1.23 | .38 | 4.0 | 4.7 | 3.2 |
| August | 29.611 | 29.805 | 29.301 | 75.4 | 87.3 | 92.3 | 73.6 | 83.0 | 105 | 67 | 67 | 65 | 77 | 50 | .680 | .626 | 1.74 | 1.03 | 4.3 | 4.2 | 3.0 |
| September | 29.662 | 29.937 | 28.993 | 66.5 | 78.5 | 84.9 | 64.7 | 74.8 | 98 | 46 | 59 | 59 | 78 | 54 | .536 | .542 | 3.17 | 1.99 | 3.6 | 4.7 | 3.6 |
| October | 29.725 | 29.969 | 29.444 | 55.2 | 68.7 | 74.5 | 53.8 | 64.2 | 90 | 40 | 48 | 49 | 79 | 52 | .359 | .372 | .84 | .30 | 2.6 | 1.8 | 2.3 |
| November | 29.771 | 30.161 | 29.391 | 53.6 | 63.5 | 69.3 | 51.3 | 60.3 | 84 | 32 | 47 | 47 | 79 | 57 | .350 | .341 | 3.00 | .98 | 5.5 | 3.2 | 5.0 |
| December | 29.735 | 30.107 | 29.341 | 31.7 | 40.0 | 45.3 | 28.9 | 37.1 | 75 | 16 | 27 | 26 | 83 | 58 | .159 | .156 | 5.31 | 2.08 | 5.6 | 3.5 | 5.0 |
| Year | 29.650 | 30.226 | 28.993 | 56.7 | 66.8 | 72.1 | 54.0 | 63.0 | 105 | 13 | 50 | 50 | 78 | 58 | .417 | .422 | 36.43 | 2.08 | 5.4 | 4.5 | 4.5 |

LOS ANGELES, CAL.

[$\phi$=34° 3′ N.; $\lambda$=118° 15′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.708 | 29.883 | 29.362 | 49.7 | 56.4 | 61.6 | 47.6 | 54.6 | 76 | 41 | 44 | 50 | 83 | 80 | 0.297 | 0.363 | 7.27 | 3.17 | 5.5 | 7.8 | 7.4 |
| February | 29.718 | 29.924 | 29.381 | 48.9 | 57.2 | 61.4 | 46.7 | 54.0 | 73 | 42 | 41 | 46 | 76 | 68 | .261 | .315 | 5.20 | 1.42 | 3.5 | 5.4 | 5.9 |
| March | 29.636 | 29.827 | 29.372 | 49.4 | 58.2 | 62.6 | 47.4 | 55.0 | 76 | 43 | 42 | 43 | 78 | 59 | .274 | .279 | 2.51 | 1.34 | 4.5 | 3.8 | 5.1 |
| April | 29.645 | 29.812 | 29.424 | 54.2 | 63.9 | 69.2 | 51.9 | 60.6 | 89 | 46 | 46 | 46 | 78 | 57 | .319 | .323 | T. | T. | 5.6 | 2.8 | 3.9 |
| May | 29.596 | 29.722 | 29.425 | 54.3 | 61.7 | 68.0 | 52.6 | 60.3 | 98 | 48 | 49 | 48 | 85 | 64 | .350 | .343 | 0 | 0 | 7.1 | 3.7 | 5.1 |
| June | 29.555 | 29.662 | 29.339 | 58.6 | 68.5 | 74.2 | 56.9 | 65.6 | 95 | 52 | 54 | 54 | 87 | 61 | .421 | .416 | .11 | .11 | 5.7 | .8 | 3.8 |
| July | 29.553 | 29.655 | 29.394 | 60.0 | 70.2 | 76.8 | 58.6 | 67.7 | 89 | 53 | 58 | 57 | 92 | 63 | .473 | .461 | 0 | 0 | 7.0 | .3 | 2.9 |
| August | 29.524 | 29.652 | 29.344 | 61.7 | 73.6 | 81.7 | 59.6 | 70.6 | 101 | 52 | 56 | 54 | 83 | 51 | .446 | .414 | T. | T. | 2.4 | 1.9 | 1.6 |
| September | 29.581 | 29.735 | 29.423 | 60.7 | 70.7 | 78.7 | 58.4 | 68.6 | 103 | 52 | 52 | 52 | 79 | 58 | .398 | .400 | .04 | .04 | 4.5 | 1.5 | 3.2 |
| October | 29.643 | 29.732 | 29.421 | 58.8 | 67.1 | 76.6 | 56.0 | 66.3 | 99 | 47 | 47 | 50 | 74 | 59 | .338 | .368 | .28 | .28 | 4.0 | 2.2 | 3.4 |
| November | 29.688 | 29.878 | 29.462 | 53.3 | 60.9 | 69.5 | 50.4 | 60.0 | 93 | 42 | 39 | 43 | 65 | 58 | .253 | .295 | 1.51 | .85 | 3.3 | 3.0 | 3.3 |
| December | 29.658 | 29.956 | 29.314 | 49.3 | 56.4 | 61.7 | 46.0 | 53.8 | 74 | 37 | 35 | 37 | 60 | 55 | .216 | .240 | 7.00 | 3.03 | 4.2 | 5.3 | 5.2 |
| Year | 29.625 | 29.956 | 29.314 | 54.9 | 63.7 | 70.2 | 52.7 | 61.4 | 103 | 37 | 47 | 48 | 78 | 61 | .337 | .351 | 23.92 | 3.17 | 4.8 | 3.2 | 4.2 |

LOUISVILLE, KY.

[$\phi$=38° 15′ N.; $\lambda$=85° 45′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.597 | 30.016 | 28.667 | 35.5 | 39.6 | 45.1 | 30.5 | 37.8 | 72 | 3 | 30 | 32 | 79 | 73 | 0.185 | 0.200 | 3.25 | 0.81 | 7.4 | 7.4 | 8.4 |
| February | 29.399 | 30.114 | 28.735 | 37.6 | 45.3 | 50.7 | 33.2 | 42.0 | 65 | 10 | 31 | 34 | 78 | 67 | .192 | .212 | 9.64 | 5.00 | 5.2 | 4.8 | 6.5 |
| March | 29.342 | 29.840 | 28.796 | 39.5 | 48.2 | 53.9 | 36.6 | 45.2 | 68 | 23 | 31 | 33 | 72 | 58 | .182 | .202 | 5.08 | 3.43 | 5.5 | 6.4 | 6.5 |
| April | 29.451 | 29.855 | 28.954 | 51.4 | 59.2 | 66.0 | 45.8 | 55.9 | 84 | 29 | 43 | 44 | 73 | 60 | .296 | .307 | 5.86 | 2.17 | 4.6 | 5.1 | 6.0 |
| May | 29.366 | 29.649 | 29.176 | 60.1 | 67.7 | 74.1 | 55.6 | 64.8 | 87 | 37 | 52 | 55 | 75 | 65 | .401 | .447 | 4.15 | 1.35 | 5.7 | 5.6 | 6.4 |
| June | 29.429 | 29.670 | 29.165 | 71.9 | 78.6 | 85.7 | 67.4 | 76.6 | 94 | 57 | 64 | 66 | 78 | 66 | .612 | .641 | 3.59 | .78 | 6.4 | 6.5 | 6.3 |
| July | 29.423 | 29.790 | 29.243 | 71.9 | 79.1 | 85.1 | 67.0 | 76.0 | 96 | 59 | 64 | 64 | 77 | 62 | .610 | .614 | 7.23 | 3.08 | 5.0 | 5.4 | 5.9 |
| August | 29.460 | 29.725 | 29.124 | 71.8 | 82.2 | 89.3 | 68.6 | 79.0 | 99 | 58 | 65 | 65 | 79 | 58 | .622 | .633 | .83 | .53 | 2.4 | 2.4 | 3.4 |
| September | 29.533 | 29.821 | 29.014 | 61.2 | 72.8 | 79.8 | 58.6 | 69.2 | 92 | 42 | 54 | 56 | 79 | 56 | .448 | .462 | 2.18 | 1.62 | 3.7 | 3.0 | 4.1 |
| October | 29.546 | 29.956 | 29.134 | 47.8 | 59.1 | 66.1 | 44.7 | 55.4 | 83 | 31 | 40 | 41 | 75 | 53 | .262 | .266 | 4.06 | 1.69 | 4.2 | 1.8 | 3.5 |
| November | 29.609 | 29.889 | 29.130 | 49.6 | 57.4 | 64.9 | 45.7 | 55.3 | 78 | 28 | 41 | 43 | 73 | 61 | .275 | .299 | 1.73 | .63 | 5.5 | 3.0 | 4.6 |
| December | 29.496 | 29.961 | 28.984 | 26.3 | 31.6 | 37.0 | 21.9 | 29.4 | 67 | 1 | 21 | 25 | 80 | 75 | .128 | .147 | 2.81 | .65 | 6.0 | 4.9 | 6.5 |
| Year | 29.474 | 30.114 | 28.667 | 52.0 | 60.1 | 66.5 | 48.0 | 57.2 | 99 | 1 | 45 | 46 | 76 | 63 | .351 | .369 | 50.41 | 5.00 | 5.1 | 4.7 | 5.7 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

LINCOLN, NEBR.

[H=1,189 ft.; $h_t$=11 ft.; $h_r$=4 ft.; $h_a$=84 ft.

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 11.9 | S. | 72 | NW. | 2 | 14 | 5 | 2 | 10 | 17 | 6 | 2 | 6 | 0 | 6 | 8 | 17 | 4 | 3 | 3 | 0 | 3 | 18 | 0 | 28 | 0 | 0 |
| February | 12.5 | S. | 58 | NW. | 2 | 9 | 7 | 3 | 4 | 13 | 5 | 2 | 12 | 1 | 10 | 10 | 8 | 6 | 4 | 5 | 0 | 0 | 6 | 0 | 27 | 2 | 0 |
| March | 11.2 | NW. | 44 | NW. | 1 | 13 | 10 | 7 | 5 | 1 | 5 | 5 | 16 | 0 | 9 | 12 | 10 | 9 | 6 | 4 | 0 | 0 | 3 | 0 | 27 | 1 | 0 |
| April | 14.3 | N. | 60 | NW. | 6 | 13 | 8 | 4 | 9 | 7 | 3 | 3 | 13 | 0 | 6 | 13 | 11 | 12 | 8 | 0 | 2 | 1 | 0 | 0 | 16 | 3 | 0 |
| May | 11.5 | SE. | 52 | NW. | 4 | 4 | 5 | 6 | 19 | 10 | 2 | 2 | 14 | 0 | 5 | 16 | 10 | 12 | 10 | 0 | 3 | 0 | 0 | 1 | 3 | 6 | 0 |
| June | 8.6 | NE. | 34 | NW. | 0 | 0 | 18 | 5 | 13 | 15 | 4 | 1 | 3 | 1 | 2 | 16 | 12 | 10 | 8 | 0 | 0 | 2 | 0 | 5 | 0 | 12 | 0 |
| July | 7.9 | S. | 41 | SW. | 1 | 3 | 9 | 11 | 10 | 16 | 4 | 4 | 5 | 0 | 12 | 10 | 9 | 8 | 8 | 0 | 0 | 2 | 0 | 11 | 0 | 7 | 0 |
| August | 9.2 | S. | 31 | S. | 0 | 8 | 6 | 0 | 15 | 29 | 2 | 1 | 1 | 0 | 13 | 11 | 7 | 3 | 2 | 0 | 0 | 0 | 0 | 20 | 0 | 2 | 0 |
| September | 8.0 | SE. | 38 | SW. | 0 | 10 | 5 | 5 | 19 | 10 | 3 | 2 | 6 | 0 | 10 | 11 | 9 | 15 | 10 | 0 | 0 | 1 | 0 | 2 | 0 | 8 | 0 |
| October | 11.1 | S. | 42 | NW. | 1 | 6 | 10 | 5 | 8 | 16 | 4 | 3 | 10 | 0 | 13 | 3 | 15 | 7 | 5 | 1 | 0 | 0 | 0 | 2 | 6 | 2 | 0 |
| November | 11.3 | S. | 40 | SW. | 1 | 10 | 10 | 3 | 7 | 17 | 4 | 3 | 6 | 0 | 7 | 5 | 18 | 13 | 11 | 7 | 0 | 2 | 4 | 0 | 11 | 3 | 0 |
| December | 10.0 | NW. | 33 | NW. | 0 | 6 | 3 | 5 | 2 | 6 | 7 | 12 | 21 | 0 | 9 | 5 | 17 | 14 | 9 | 12 | 0 | 0 | 25 | 0 | 29 | 0 | 0 |
| Year | 10.6 | S. | 72 | NW. | 18 | 96 | 96 | 56 | 121 | 157 | 49 | 40 | 113 | 2 | 102 | 120 | 143 | 113 | 84 | 32 | 5 | 11 | 56 | 41 | 147 | 46 | 0 |

LITTLE ROCK, ARK.

[H=357 ft.; $h_t$=139 ft.; $h_r$=132 ft.; $h_a$=147 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 10.5 | S. | 56 | NW. | 2 | 10 | 11 | 8 | 10 | 11 | 5 | 1 | 6 | 0 | 4 | 7 | 20 | 10 | 5 | 1 | 0 | 1 | 4 | 0 | 12 | 3 | 0 |
| February | 11.6 | NW. | 52 | NW. | 1 | 1 | 0 | 7 | 7 | 10 | 7 | 11 | 13 | 0 | 12 | 8 | 8 | 8 | 7 | 1 | 2 | 0 | 0 | 0 | 8 | 6 | 0 |
| March | 10.3 | E. | 46 | SW. | 1 | 11 | 13 | 7 | 6 | 8 | 3 | 5 | 9 | 0 | 12 | 10 | 9 | 10 | 8 | 0 | 0 | 1 | 0 | 0 | 1 | 6 | 0 |
| April | 11.9 | S. | 50 | NW. | 2 | 7 | 4 | 9 | 7 | 15 | 6 | 4 | 7 | 1 | 14 | 11 | 5 | 11 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 8 | 0 |
| May | 9.2 | S. | 48 | NW. | 2 | 5 | 7 | 14 | 8 | 11 | 9 | 2 | 6 | 0 | 10 | 11 | 10 | 11 | 9 | 0 | 2 | 0 | 0 | 0 | 0 | 7 | 0 |
| June | 6.1 | SW. | 36 | W. | 0 | 7 | 6 | 10 | 5 | 10 | 11 | 3 | 7 | 1 | 10 | 12 | 8 | 13 | 8 | 0 | 0 | 0 | 0 | 5 | 0 | 9 | 0 |
| July | 8.2 | SW. | 35 | SW. | 0 | 5 | 6 | 12 | 2 | 13 | 13 | 5 | 6 | 0 | 18 | 11 | 2 | 7 | 7 | 0 | 0 | 0 | 0 | 22 | 0 | 8 | 0 |
| August | 6.7 | E. | 30 | W. | 0 | 6 | 12 | 15 | 9 | 7 | 8 | 2 | 3 | 0 | 18 | 10 | 3 | 4 | 2 | 0 | 0 | 0 | 0 | 25 | 0 | 2 | 0 |
| September | 8.5 | NE. | 40 | N. | 2 | 9 | 15 | 13 | 3 | 5 | 9 | 3 | 3 | 0 | 14 | 12 | 4 | 6 | 6 | 0 | 0 | 0 | 0 | 10 | 0 | 6 | 0 |
| October | 7.9 | E. | 45 | SW. | 1 | 3 | 6 | 12 | 7 | 12 | 10 | 6 | 6 | 0 | 22 | 5 | 4 | 6 | 6 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 |
| November | 9.2 | S. | 34 | NW. | 0 | 2 | 4 | 11 | 9 | 16 | 9 | 4 | 5 | 0 | 12 | 8 | 10 | 6 | 5 | 0 | 0 | 1 | 0 | 0 | 1 | 3 | 0 |
| December | 9.5 | NW. | 36 | NW. | 0 | 5 | 9 | 7 | 3 | 7 | 7 | 11 | 13 | 0 | 15 | 4 | 12 | 11 | 10 | 4 | 0 | 1 | 4 | 0 | 24 | 3 | 0 |
| Year | 9.1 | S. | 56 | NW. | 11 | 71 | 93 | 125 | 76 | 125 | 97 | 57 | 84 | 2 | 161 | 109 | 95 | 103 | 82 | 6 | 5 | 4 | 8 | 63 | 46 | 63 | 0 |

LOS ANGELES, CAL.

[H=338 ft.; $h_t$=159 ft.; $h_r$=151 ft.; $h_a$=191 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 6.2 | NE. | 31 | NE. | 0 | 1 | 21 | 3 | 6 | 6 | 12 | 5 | 6 | 2 | 1 | 12 | 18 | 13 | 11 | 0 | 0 | 9 | 0 | 0 | 0 | 1 | 0 |
| February | 7.1 | NE. | 32 | S. | 0 | 2 | 18 | 3 | 6 | 0 | 17 | 4 | 6 | 0 | 7 | 13 | 8 | 10 | 9 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| March | 7.2 | NE. | 34 | NW. | 0 | 0 | 23 | 2 | 2 | 6 | 18 | 3 | 7 | 1 | 10 | 13 | 8 | 7 | 6 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 |
| April | 6.1 | SW. | 24 | SW. | 0 | 3 | 19 | 3 | 1 | 3 | 28 | 1 | 1 | 1 | 12 | 14 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 6.1 | SW. | 20 | SW. | 0 | 2 | 17 | 2 | 0 | 4 | 32 | 1 | 3 | 1 | 6 | 18 | 7 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 |
| June | 5.7 | SW. | 21 | SW. | 0 | 0 | 14 | 2 | 4 | 6 | 30 | 0 | 2 | 2 | 12 | 16 | 2 | 1 | 1 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 0 |
| July | 5.6 | SW. | 16 | SW. | 0 | 0 | 8 | 3 | 5 | 5 | 34 | 4 | 3 | 0 | 20 | 11 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| August | 5.3 | SW. | 19 | SW. | 0 | 1 | 15 | 2 | 1 | 2 | 27 | 4 | 10 | 0 | 25 | 5 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 0 |
| September | 5.8 | SW. | 20 | SW. | 0 | 1 | 13 | 2 | 2 | 7 | 29 | 1 | 5 | 0 | 14 | 15 | 1 | 1 | 1 | 0 | 0 | 7 | 0 | 4 | 0 | 0 | 0 |
| October | 5.7 | SW. | 19 | NE. | 0 | 1 | 19 | 2 | 4 | 2 | 25 | 6 | 2 | 1 | 15 | 14 | 2 | 1 | 1 | 0 | 0 | 6 | 0 | 6 | 0 | 0 | 0 |
| November | 6.2 | SW. | 31 | NW. | 0 | 5 | 16 | 3 | 1 | 1 | 16 | 13 | 5 | 0 | 16 | 11 | 3 | 7 | 5 | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 0 |
| December | 7.5 | NE. | 30 | SE. | 0 | 3 | 34 | 3 | 6 | 3 | 6 | 3 | 4 | 0 | 12 | 7 | 12 | 10 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Year | 6.2 | SW. | 34 | NW. | 0 | 19 | 217 | 30 | 38 | 45 | 274 | 45 | 54 | 8 | 150 | 149 | 66 | 50 | 42 | 0 | 0 | 40 | 0 | 18 | 0 | 3 | 0 |

LOUISVILLE, KY.

[H=525 ft.; $h_t$=111 ft.; $h_r$=103 ft.; $h_a$=132 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 9.3 | S. | 42 | SW. | 1 | 10 | 5 | 2 | 7 | 13 | 11 | 8 | 6 | 0 | 1 | 7 | 23 | 12 | 12 | 5 | 0 | 11 | 5 | 0 | 16 | 0 | 0 |
| February | 10.2 | W. | 38 | W. | 0 | 4 | 2 | 1 | 9 | 13 | 11 | 15 | 1 | 0 | 9 | 4 | 15 | 11 | 10 | 2 | 0 | 5 | 2 | 0 | 12 | 6 | 0 |
| March | 10.3 | W. | 38 | NW. | 0 | 8 | 8 | 7 | 3 | 6 | 12 | 12 | 6 | 0 | 9 | 4 | 18 | 11 | 9 | 0 | 1 | 8 | 0 | 0 | 7 | 5 | 0 |
| April | 10.4 | S. | 46 | W. | 2 | 7 | 2 | 8 | 6 | 13 | 10 | 8 | 5 | 1 | 8 | 10 | 12 | 11 | 10 | 0 | 1 | 2 | 0 | 0 | 1 | 5 | 0 |
| May | 8.9 | NE. | 32 | W. | 0 | 7 | 13 | 5 | 5 | 9 | 12 | 5 | 6 | 0 | 9 | 5 | 17 | 12 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 7 | 0 |
| June | 6.2 | SW. | 35 | NW. | 0 | 2 | 8 | 6 | 8 | 11 | 16 | 7 | 2 | 0 | 2 | 17 | 11 | 14 | 11 | 0 | 0 | 0 | 0 | 9 | 0 | 14 | 0 |
| July | 7.0 | NE. | 44 | E. | 2 | 5 | 12 | 9 | 6 | 10 | 7 | 6 | 7 | 0 | 8 | 10 | 13 | 12 | 9 | 0 | 1 | 0 | 0 | 6 | 0 | 10 | 0 |
| August | 5.8 | NE. | 37 | NW. | 0 | 11 | 17 | 3 | 4 | 8 | 7 | 3 | 8 | 1 | 15 | 12 | 4 | 5 | 3 | 0 | 0 | 0 | 0 | 16 | 0 | 5 | 0 |
| September | 7.7 | N. | 34 | SE. | 0 | 21 | 6 | 3 | 9 | 5 | 9 | 2 | 5 | 0 | 14 | 9 | 7 | 6 | 4 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 0 |
| October | 7.9 | SW. | 35 | W. | 0 | 12 | 3 | 3 | 14 | 4 | 18 | 8 | 5 | 0 | 19 | 5 | 7 | 9 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| November | 8.5 | S. | 42 | W. | 1 | 8 | 6 | 3 | 10 | 13 | 13 | 5 | 2 | 0 | 13 | 8 | 9 | 7 | 5 | 0 | 0 | 2 | 0 | 0 | 2 | 3 | 0 |
| December | 9.2 | W. | 40 | W. | 1 | 5 | 3 | 4 | 8 | 2 | 18 | 19 | 3 | 0 | 8 | 6 | 17 | 13 | 11 | 5 | 0 | 3 | 2 | 0 | 4 | 1 | 0 |
| Year | 8.4 | SW. | 46 | W. | 7 | 100 | 85 | 54 | 89 | 107 | 144 | 93 | 56 | 2 | 115 | 97 | 153 | 123 | 100 | 13 | 4 | 32 | 11 | 0 | 26 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | 18 | 34 | 68 | 58 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

LYNCHBURG, VA.

[$\phi$=37° 25′ N.; $\lambda$=79° 9′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.420 | 29.835 | 28.526 | 35.5 | 42.2 | 51.3 | 31.1 | 41.2 | 77 | 15 | 29 | 35 | 77 | 76 | 0.170 | 0.218 | 1.36 | 0.50 | 5.6 | 5.0 | 6.5 |
| February | 29.262 | 29.750 | 28.672 | 40.4 | 48.1 | 55.4 | 35.0 | 45.2 | 70 | 17 | 33 | 37 | 75 | 67 | .209 | .231 | 3.09 | .99 | 5.2 | 4.1 | 5.5 |
| March | 29.163 | 29.678 | 28.402 | 39.4 | 47.7 | 55.4 | 34.6 | 45.0 | 70 | 24 | 31 | 38 | 72 | 69 | .181 | .234 | 2.37 | .89 | 4.8 | 3.7 | 5.4 |
| April | 29.329 | 29.911 | 28.987 | 51.5 | 60.7 | 68.6 | 45.8 | 57.2 | 89 | 26 | 43 | 48 | 73 | 65 | .292 | .348 | 2.38 | 1.16 | 4.7 | 4.4 | 5.4 |
| May | 29.222 | 29.544 | 28.795 | 60.0 | 68.1 | 75.9 | 52.5 | 64.2 | 90 | 36 | 52 | 54 | 75 | 64 | .397 | .440 | 4.58 | 1.94 | 5.0 | 4.9 | 5.5 |
| June | 29.282 | 29.567 | 28.935 | 71.3 | 74.6 | 85.1 | 65.6 | 75.4 | 94 | 52 | 65 | 68 | 81 | 80 | .622 | .688 | 4.95 | 1.67 | 5.4 | 6.5 | 5.8 |
| July | 29.268 | 29.578 | 28.981 | 69.8 | 77.3 | 84.9 | 63.6 | 74.2 | 93 | 53 | 62 | 64 | 77 | 64 | .569 | .600 | 1.85 | .92 | 3.5 | 4.2 | 3.7 |
| August | 29.307 | 29.575 | 28.877 | 68.5 | 75.1 | 83.8 | 63.4 | 73.6 | 95 | 50 | 62 | 65 | 80 | 72 | .563 | .622 | 3.20 | 1.09 | 3.8 | 4.5 | 5.0 |
| September | 29.382 | 29.642 | 29.188 | 61.2 | 67.6 | 76.3 | 57.1 | 66.7 | 85 | 40 | 56 | 58 | 83 | 73 | .465 | .503 | 2.65 | .95 | 5.9 | 4.3 | 5.8 |
| October | 29.387 | 29.801 | 28.973 | 45.9 | 55.2 | 67.2 | 40.6 | 53.9 | 81 | 30 | 39 | 44 | 76 | 66 | .246 | .296 | 1.46 | 1.02 | 3.4 | 1.6 | 4.4 |
| November | 29.477 | 29.894 | 28.860 | 45.7 | 53.5 | 65.1 | 39.9 | 52.5 | 77 | 26 | 37 | 41 | 74 | 65 | .239 | .275 | .52 | .33 | 4.7 | 2.5 | 4.3 |
| December | 29.262 | 29.686 | 28.600 | 29.6 | 35.0 | 42.8 | 25.7 | 34.2 | 66 | 12 | 21 | 27 | 69 | 70 | .115 | .147 | 2.79 | 1.83 | 3.9 | 2.8 | 4.9 |
| Year | 29.313 | 29.911 | 28.402 | 51.6 | 58.8 | 67.6 | 46.2 | 56.9 | 95 | 12 | 44 | 48 | 76 | 69 | .339 | .384 | 31.20 | 1.94 | 4.7 | 4.0 | 5.2 |

MACON, GA.

[$\phi$=32° 50′ N.; $\lambda$=83° 38′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.774 | 30.028 | 29.259 | 44.4 | 52.7 | 58.6 | 41.6 | 50.1 | 77 | 14 | 40 | ..... | 87 | ..... | 0.272 | ..... | 1.54 | 0.67 | 5.4 | ..... | 5.7 |
| February | 29.708 | 30.153 | 29.409 | 43.4 | 56.2 | 64.3 | 41.0 | 52.6 | 81 | 18 | 38 | ..... | 82 | ..... | .255 | ..... | 6.79 | 3.88 | 3.8 | ..... | 4.4 |
| March | 29.547 | 29.878 | 29.122 | 49.3 | 60.2 | 66.7 | 45.9 | 56.3 | 79 | 35 | 44 | ..... | 83 | ..... | .304 | ..... | 6.85 | 1.85 | 5.0 | ..... | 4.8 |
| April | 29.692 | 30.049 | 29.480 | 57.0 | 68.8 | 74.5 | 53.1 | 63.8 | 87 | 35 | 52 | ..... | 83 | ..... | .402 | ..... | 4.30 | 1.36 | 4.8 | ..... | 4.7 |
| May | 29.568 | 29.879 | 29.325 | 64.9 | 72.7 | 80.1 | 59.6 | 69.8 | 90 | 44 | 59 | ..... | 82 | ..... | .520 | ..... | 3.54 | 1.27 | 4.9 | ..... | 5.1 |
| June | 29.618 | 29.827 | 29.401 | 74.7 | 80.6 | 88.4 | 70.6 | 79.5 | 94 | 66 | 69 | ..... | 82 | ..... | .706 | ..... | 2.49 | .85 | 4.3 | ..... | 5.6 |
| July | 29.603 | 29.847 | 29.372 | 74.8 | 80.8 | 88.4 | 71.1 | 79.8 | 97 | 64 | 70 | ..... | 85 | ..... | .736 | ..... | 4.54 | 1.33 | 6.7 | ..... | 5.9 |
| August | 29.609 | 29.845 | 29.287 | 74.5 | 81.2 | 89.2 | 70.8 | 80.0 | 95 | 63 | 69 | ..... | 84 | ..... | .715 | ..... | 2.29 | 1.08 | 3.9 | ..... | 4.3 |
| September | 29.653 | 29.792 | 29.583 | 67.7 | 74.6 | 83.5 | 65.1 | 74.3 | 93 | 44 | 63 | ..... | 85 | ..... | .597 | ..... | 2.47 | 1.63 | 5.6 | ..... | 5.4 |
| October | 29.745 | 29.984 | 29.408 | 52.9 | 65.9 | 74.9 | 49.6 | 62.2 | 88 | 34 | 48 | ..... | 86 | ..... | .353 | ..... | .86 | .46 | 2.3 | ..... | 2.3 |
| November | 29.834 | 30.143 | 29.347 | 49.0 | 61.8 | 71.5 | 46.4 | 59.0 | 84 | 28 | 45 | ..... | 87 | ..... | .320 | ..... | .61 | .46 | 2.2 | ..... | 2.8 |
| December | 29.672 | 29.990 | 29.356 | 36.4 | 44.8 | 51.8 | 32.5 | 42.2 | 70 | 14 | 31 | ..... | 81 | ..... | .194 | ..... | 2.14 | .67 | 3.8 | ..... | 5.0 |
| Year | 29.669 | 30.153 | 29.122 | 57.4 | 66.7 | 74.3 | 54.0 | 64.1 | 97 | *14 | 52 | ..... | 84 | ..... | .448 | ..... | 38.33 | 3.88 | 4.4 | ..... | 4.7 |

MADISON, WIS.

[$\phi$=43° 05′ N.; $\lambda$=89° 23′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.048 | 29.512 | 28.148 | 17.1 | 21.8 | 27.5 | 12.6 | 20.0 | 50 | −22 | 14 | 16 | 84 | 77 | 0.099 | 0.109 | 2.33 | 1.26 | 5.0 | 5.2 | 6.9 |
| February | 28.843 | 29.335 | 28.173 | 20.3 | 25.6 | 30.9 | 15.3 | 23.6 | 46 | 0 | 17 | 20 | 87 | 77 | .102 | .110 | 1.70 | .66 | 5.9 | 6.4 | 6.7 |
| March | 28.876 | 29.390 | 28.312 | 26.5 | 31.5 | 36.1 | 24.7 | 30.4 | 50 | 5 | 22 | 24 | 83 | 72 | .120 | .130 | 1.12 | .64 | 5.7 | 5.3 | 6.4 |
| April | 28.873 | 29.316 | 28.296 | 36.0 | 42.3 | 48.2 | 32.8 | 40.5 | 70 | 22 | 30 | 31 | 79 | 65 | .174 | .179 | 7.19 | 2.71 | 7.1 | 6.5 | 7.0 |
| May | 28.855 | 29.160 | 28.441 | 50.4 | 59.1 | 64.5 | 46.2 | 55.4 | 86 | 28 | 42 | 43 | 74 | 58 | .288 | .296 | 2.49 | 1.53 | 4.7 | 5.7 | 5.3 |
| June | 28.966 | 29.302 | 28.686 | 61.9 | 70.5 | 75.7 | 57.5 | 66.6 | 90 | 48 | 56 | 59 | 82 | 69 | .467 | .515 | 2.78 | .83 | 5.8 | 6.5 | 5.6 |
| July | 28.948 | 29.311 | 28.585 | 65.4 | 74.9 | 79.6 | 61.3 | 70.4 | 95 | 53 | 57 | 57 | 75 | 56 | .478 | .480 | .29 | .13 | 5.3 | 4.6 | 5.3 |
| August | 29.005 | 29.266 | 28.735 | 66.8 | 75.7 | 81.6 | 63.5 | 72.6 | 91 | 48 | 61 | 61 | 82 | 62 | .547 | .552 | 4.39 | 2.01 | 5.1 | 4.0 | 4.5 |
| September | 29.066 | 29.546 | 28.597 | 54.6 | 62.5 | 69.2 | 52.4 | 60.8 | 84 | 43 | 51 | 52 | 88 | 70 | .389 | .414 | 2.20 | .72 | 5.1 | 4.0 | 4.9 |
| October | 29.005 | 29.564 | 28.443 | 40.4 | 48.0 | 55.0 | 38.6 | 46.8 | 77 | 24 | 36 | 36 | 83 | 64 | .219 | .229 | .91 | .74 | 5.5 | 4.2 | 5.5 |
| November | 29.023 | 29.547 | 28.493 | 38.5 | 43.6 | 50.9 | 34.2 | 42.6 | 68 | 15 | 35 | 37 | 87 | 78 | .216 | .231 | 2.28 | .69 | 6.8 | 5.9 | 6.7 |
| December | 28.890 | 29.326 | 28.449 | 13.6 | 16.0 | 22.1 | 8.8 | 15.4 | 51 | − 8 | 11 | 11 | 88 | 79 | .091 | .083 | 3.15 | 1.06 | 7.1 | 5.9 | 7.1 |
| Year | 28.950 | 29.564 | 28.148 | 41.0 | 47.6 | 53.4 | 37.4 | 45.4 | 95 | −22 | 36 | 37 | 83 | 69 | .266 | .277 | 30.83 | 2.71 | 5.8 | 5.4 | 6.0 |

MARQUETTE, MICH.

[$\phi$=46° 34′ N.; $\lambda$=87° 24′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.273 | 29.879 | 28.747 | 16.5 | 19.7 | 25.7 | 11.8 | 18.8 | 48 | −15 | 11 | 13 | 78 | 73 | 0.083 | 0.087 | 1.07 | 0.30 | 7.2 | 6.0 | 6.4 |
| February | 29.126 | 29.725 | 28.337 | 16.6 | 19.3 | 25.0 | 12.3 | 18.6 | 44 | 0 | 12 | 14 | 82 | 76 | .078 | .082 | 2.67 | 1.18 | 8.4 | 7.4 | 7.5 |
| March | 29.133 | 29.640 | 28.456 | 23.8 | 27.6 | 32.4 | 19.9 | 26.2 | 42 | 7 | 19 | 21 | 82 | 78 | .105 | .113 | 2.04 | .90 | 6.5 | 5.4 | 6.2 |
| April | 29.159 | 29.564 | 28.423 | 31.7 | 33.8 | 39.0 | 27.1 | 33.0 | 53 | 13 | 24 | 25 | 73 | 70 | .131 | .135 | 3.39 | 1.06 | 6.7 | 7.1 | 6.3 |
| May | 29.129 | 29.479 | 28.540 | 45.7 | 46.9 | 53.6 | 39.0 | 46.3 | 74 | 22 | 36 | 35 | 70 | 66 | .217 | .209 | 1.57 | .96 | 5.1 | 5.3 | 4.8 |
| June | 29.218 | 29.534 | 28.944 | 59.2 | 60.2 | 68.9 | 50.7 | 59.8 | 91 | 40 | 48 | 47 | 69 | 64 | .357 | .340 | 1.65 | .86 | 3.9 | 4.6 | 4.0 |
| July | 29.167 | 29.549 | 28.645 | 63.9 | 65.3 | 72.6 | 57.3 | 65.0 | 89 | 46 | 53 | 55 | 70 | 72 | .410 | .442 | 4.57 | 1.24 | 3.9 | 4.1 | 4.5 |
| August | 29.236 | 29.549 | 28.943 | 64.3 | 66.1 | 72.7 | 59.0 | 65.8 | 92 | 44 | 57 | 57 | 77 | 74 | .470 | .478 | 1.34 | .36 | 6.9 | 4.9 | 5.4 |
| September | 29.298 | 29.885 | 28.760 | 53.6 | 56.3 | 64.2 | 47.3 | 55.8 | 83 | 35 | 47 | 47 | 78 | 73 | .335 | .340 | 1.69 | 1.25 | 5.4 | 5.5 | 5.7 |
| October | 29.197 | 29.814 | 28.364 | 42.0 | 45.0 | 51.4 | 38.9 | 45.2 | 81 | 28 | 35 | 36 | 77 | 72 | .214 | .221 | 1.76 | .74 | 6.6 | 5.7 | 6.9 |
| November | 29.280 | 29.874 | 28.637 | 36.2 | 38.7 | 41.6 | 32.1 | 38.4 | 62 | 19 | 31 | 33 | 82 | 80 | .182 | .195 | 4.10 | 1.68 | 8.1 | 7.7 | 8.2 |
| December | 29.116 | 29.696 | 28.495 | 20.9 | 22.9 | 27.1 | 16.5 | 21.8 | 49 | 5 | 16 | 17 | 81 | 80 | .099 | .100 | 3.42 | .67 | 8.4 | 8.2 | 7.9 |
| Year | 29.194 | 29.885 | 28.337 | 39.5 | 41.8 | 48.1 | 34.3 | 41.2 | 92 | −15 | 32 | 33 | 76 | 73 | .223 | .228 | 29.27 | 1.68 | 6.4 | 6.0 | 6.2 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

LYNCHBURG, VA.

[H=681 ft.; $h_1$=83 ft.; $h_r$=77 ft.; $h_s$=88 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 4.8 | NW. | 36 | NW. | 0 | 5 | 14 | 2 | 3 | 0 | 11 | 1 | 21 | 5 | 9 | 7 | 15 | 8 | 5 | 1 | 0 | 2 | 2 | 0 | 17 | 0 | 0 |
| February | 6.2 | NW. | 27 | NW. | 0 | 2 | 8 | 4 | 5 | 2 | 15 | 3 | 17 | 0 | 12 | 5 | 11 | 14 | 10 | 1 | 0 | 1 | 0 | 0 | 12 | 1 | 0 |
| March | 6.0 | NW. | 30 | NW. | 0 | 5 | 11 | 3 | 4 | 1 | 12 | 0 | 25 | 1 | 11 | 11 | 9 | 12 | 9 | 2 | 0 | 1 | 0 | 0 | 13 | 0 | 0 |
| April | 5.3 | NW. | 31 | NW. | 0 | 5 | 11 | 3 | 9 | 4 | 17 | 0 | 11 | 0 | 12 | 7 | 11 | 10 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 |
| May | 4.9 | NW. | 23 | S. | 0 | 3 | 14 | 1 | 9 | 7 | 8 | 1 | 19 | 0 | 11 | 13 | 7 | 10 | 8 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 |
| June | 3.4 | SW. | 28 | N. | 0 | 2 | 8 | 4 | 4 | 6 | 19 | 2 | 15 | 0 | 4 | 21 | 5 | 17 | 17 | 0 | 0 | 2 | 0 | 6 | 0 | 17 | 0 |
| July | 3.5 | NW. | 29 | N. | 0 | 9 | 10 | 3 | 7 | 2 | 13 | 2 | 15 | 1 | 13 | 16 | 2 | 8 | 5 | 0 | 0 | 4 | 0 | 8 | 0 | 2 | 0 |
| August | 3.0 | NW. | 16 | NW. | 0 | 13 | 14 | 6 | 9 | 4 | 2 | 6 | 8 | 0 | 13 | 12 | 6 | 8 | 7 | 0 | 0 | 0 | 0 | 6 | 0 | 3 | 0 |
| September | 3.3 | N. | 17 | NW. | 0 | 12 | 16 | 3 | 6 | 3 | 7 | 0 | 9 | 4 | 6 | 15 | 9 | 6 | 6 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 |
| October | 3.7 | NW. | 22 | NW. | 0 | 17 | 4 | 1 | 6 | 1 | 5 | 4 | 19 | 5 | 15 | 12 | 4 | 6 | 5 | 0 | 0 | 3 | 0 | 0 | 3 | 2 | 0 |
| November | 4.3 | NW. | 27 | NW. | 0 | 9 | 12 | 0 | 1 | 5 | 13 | 2 | 15 | 3 | 16 | 8 | 6 | 5 | 2 | 1 | 0 | 3 | 0 | 0 | 5 | 0 | 0 |
| December | 4.7 | NW. | 30 | NW. | 0 | 10 | 5 | 1 | 2 | 2 | 8 | 8 | 20 | 6 | 11 | 13 | 7 | 5 | 4 | 2 | 0 | 0 | 2 | 0 | 26 | 0 | 0 |
| Year | 4.4 | NW. | 36 | NW. | 0 | 92 | 127 | 31 | 65 | 37 | 130 | 29 | 194 | 25 | 133 | 140 | 92 | 109 | 84 | 7 | 0 | 20 | 4 | 20 | 77 | 32 | 0 |

MACON, GA.

[H=370 ft.; $h_1$=78 ft.; $h_r$=71 ft.; $h_s$=87 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 6.4 | NE. | 32 | W. | 0 | 10 | 7 | 1 | 1 | 0 | 3 | 1 | 6 | 2 | 10 | 8 | 13 | 7 | 6 | 0 | 0 | 10 | 1 | 0 | 2 | 1 | 0 |
| February | 8.0 | S. | 32 | S. | 0 | 3 | 0 | 0 | 3 | 9 | 4 | 3 | 6 | 0 | 14 | 5 | 9 | 10 | 10 | 0 | 0 | 1 | 0 | 0 | 7 | 5 | 0 |
| March | 7.7 | NW. | 36 | W. | 0 | 6 | 2 | 1 | 1 | 4 | 3 | 3 | 8 | 3 | 13 | 9 | 9 | 14 | 14 | 0 | 1 | 2 | 0 | 0 | 0 | 8 | 0 |
| April | 7.1 | S. | 27 | NW. | 0 | 6 | 2 | 3 | 4 | 7 | 2 | 1 | 4 | 1 | 15 | 3 | 12 | 10 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| May | 5.5 | S. | 26 | SE. | 0 | 3 | 4 | 1 | 6 | 3 | 5 | 4 | 4 | 1 | 12 | 11 | 8 | 14 | 11 | 0 | 0 | 0 | 0 | 1 | 0 | 7 | 0 |
| June | 5.2 | SE. | 31 | S. | 0 | 2 | 3 | 4 | 5 | 6 | 1 | 5 | 4 | 0 | 9 | 12 | 9 | 11 | 8 | 0 | 0 | 0 | 0 | 11 | 0 | 12 | 0 |
| July | 5.5 | SW. | 32 | NW. | 0 | 5 | 3 | 5 | 2 | 4 | 5 | 5 | 2 | 0 | 7 | 15 | 9 | 12 | 9 | 0 | 0 | 0 | 0 | 15 | 0 | 10 | 0 |
| August | 5.1 | NE. | 30 | S. | 0 | 7 | 9 | 3 | 2 | 3 | 2 | 1 | 4 | 0 | 14 | 11 | 6 | 10 | 6 | 0 | 0 | 0 | 0 | 15 | 0 | 10 | 0 |
| September | 6.1 | NE. | 30 | NE. | 0 | 10 | 9 | 6 | 2 | 1 | 0 | 1 | 0 | 1 | 8 | 13 | 9 | 11 | 8 | 0 | 0 | 0 | 0 | 4 | 0 | 8 | 0 |
| October | 5.6 | N. | 35 | W. | 0 | 19 | 3 | 0 | 0 | 2 | 0 | 2 | 4 | 1 | 23 | 5 | 3 | 3 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 0 |
| November | 5.7 | NE. | 24 | W. | 0 | 13 | 3 | 2 | 2 | 2 | 0 | 1 | 7 | 0 | 21 | 5 | 4 | 3 | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 2 | 0 |
| December | 6.8 | NW. | 32 | NW. | 0 | 9 | 1 | 2 | 0 | 5 | 2 | 4 | 8 | 0 | 15 | 4 | 12 | 9 | 9 | 0 | 0 | 4 | 0 | 0 | 17 | 0 | 0 |
| Year | 6.2 | N. | 36 | W. | 0 | 93 | 46 | 28 | 28 | 46 | 27 | 31 | 57 | 9 | 161 | 101 | 103 | 114 | 91 | 0 | 1 | 22 | 1 | 46 | 27 | 67 | 0 |

MADISON, WIS.

[H=974 ft.; $h_1$=70 ft.; $h_r$=62 ft.; $h_s$=78 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 11.5 | NW. | 40 | NE. | 1 | 2 | 5 | 1 | 13 | 10 | 5 | 10 | 16 | 0 | 8 | 5 | 18 | 6 | 6 | 4 | 0 | 5 | 18 | 0 | 26 | 1 | 0 |
| February | 12.0 | SW. | 44 | NE. | 1 | 6 | 7 | 3 | 5 | 14 | 4 | 8 | 9 | 0 | 5 | 10 | 13 | 8 | 6 | 7 | 0 | 4 | 13 | 0 | 28 | 0 | 0 |
| March | 10.6 | NW. | 34 | N. | 0 | 6 | 6 | 4 | 12 | 2 | 0 | 12 | 20 | 0 | 6 | 12 | 13 | 12 | 4 | 7 | 0 | 0 | 7 | 0 | 29 | 1 | 0 |
| April | 12.5 | NW. | 51 | S. | 3 | 6 | 5 | 7 | 7 | 10 | 3 | 8 | 13 | 1 | 7 | 7 | 16 | 16 | 14 | 1 | 3 | 3 | 1 | 0 | 12 | 7 | 0 |
| May | 10.1 | SE. | 34 | SW. | 0 | 2 | 9 | 11 | 6 | 9 | 7 | 11 | 7 | 0 | 10 | 12 | 9 | 12 | 6 | 1 | 0 | 0 | 0 | 0 | 3 | 7 | 3 |
| June | 6.9 | SW. | 25 | NE. | 0 | 4 | 10 | 6 | 10 | 7 | 13 | 3 | 6 | 1 | 8 | 15 | 7 | 13 | 11 | 0 | 0 | 0 | 0 | 1 | 0 | 10 | 0 |
| July | 8.0 | SW. | 33 | NE. | 0 | 3 | 2 | 7 | 9 | 10 | 9 | 11 | 11 | 0 | 10 | 14 | 7 | 4 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 2 |
| August | 7.3 | S. | 26 | NE. | 0 | 2 | 4 | 4 | 16 | 13 | 9 | 6 | 7 | 1 | 13 | 13 | 5 | 8 | 8 | 0 | 0 | 1 | 0 | 1 | 0 | 7 | 0 |
| September | 8.0 | NW. | 28 | S. | 0 | 4 | 7 | 2 | 12 | 11 | 6 | 8 | 10 | 0 | 11 | 9 | 10 | 9 | 8 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 1 |
| October | 10.0 | S. | 31 | W. | 0 | 4 | 6 | 2 | 12 | 9 | 11 | 9 | 8 | 1 | 9 | 11 | 11 | 6 | 4 | 1 | 0 | 3 | 1 | 0 | 9 | 0 | 2 |
| November | 12.9 | S. | 45 | SW. | 2 | 3 | 7 | 3 | 14 | 13 | 6 | 4 | 10 | 0 | 5 | 13 | 12 | 11 | 9 | 1 | 1 | 1 | 3 | 0 | 13 | 1 | 0 |
| December | 9.8 | W. | 40 | SW. | 1 | 3 | 3 | 2 | 8 | 6 | 5 | 23 | 12 | 0 | 7 | 8 | 16 | 14 | 11 | 11 | 0 | 1 | 25 | 0 | 27 | 0 | 0 |
| Year | 10.0 | NW. | 51 | S. | 8 | 45 | 71 | 52 | 124 | 114 | 78 | 113 | 129 | 4 | 99 | 129 | 137 | 119 | 90 | 33 | 4 | 19 | 68 | 3 | 147 | 40 | 8 |

MARQUETTE, MICH.

[H=734 ft.; $h_1$=77 ft.; $h_r$=70 ft.; $h_s$=116 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 13.7 | W. | 46 | NW. | 3 | 2 | 0 | 4 | 4 | 13 | 9 | 18 | 12 | 0 | 7 | 9 | 15 | 13 | 9 | 10 | 0 | 3 | 19 | 0 | 28 | 9 | 2 |
| February | 10.9 | NW. | 47 | SW. | 2 | 3 | 2 | 3 | 3 | 7 | 3 | 11 | 24 | 0 | 1 | 10 | 17 | 14 | 8 | 13 | 0 | 1 | 24 | 0 | 28 | 0 | 0 |
| March | 9.3 | NW. | 33 | NW. | 0 | 5 | 6 | 3 | 6 | 4 | 3 | 17 | 18 | 0 | 7 | 12 | 12 | 15 | 7 | 15 | 0 | 1 | 11 | 0 | 31 | 0 | 0 |
| April | 10.7 | NW. | 54 | S. | 3 | 7 | 4 | 5 | 4 | 10 | 3 | 8 | 19 | 0 | 6 | 11 | 13 | 18 | 12 | 17 | 0 | 0 | 3 | 0 | 25 | 0 | 0 |
| May | 8.8 | NW. | 29 | W. | 0 | 11 | 1 | 1 | 3 | 5 | 0 | 11 | 30 | 0 | 12 | 9 | 10 | 11 | 6 | 2 | 0 | 3 | 1 | 0 | 5 | 2 | 0 |
| June | 7.2 | NW. | 30 | SW. | 0 | 3 | 7 | 8 | 9 | 4 | 6 | 11 | 12 | 0 | 13 | 13 | 4 | 8 | 5 | 0 | 0 | 3 | 0 | 1 | 0 | 5 | 0 |
| July | 9.3 | NW. | 40 | W. | 1 | 3 | 4 | 9 | 5 | 5 | 8 | 10 | 17 | 1 | 14 | 9 | 8 | 13 | 9 | 0 | 0 | 2 | 0 | 0 | 0 | 7 | 0 |
| August | 9.0 | NW. | 40 | SW. | 1 | 9 | 4 | 7 | 11 | 7 | 5 | 10 | 8 | 1 | 11 | 9 | 11 | 13 | 10 | 0 | 0 | 0 | 0 | 1 | 0 | 5 | 0 |
| September | 9.7 | NW. | 36 | SW. | 0 | 8 | 3 | 3 | 6 | 13 | 4 | 13 | 10 | 0 | 8 | 11 | 11 | 9 | 5 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 |
| October | 11.2 | W. | 36 | W. | 0 | 2 | 2 | 2 | 14 | 6 | 13 | 17 | 6 | 0 | 5 | 8 | 18 | 15 | 13 | 8 | 0 | 1 | 0 | 0 | 7 | 0 | 0 |
| November | 12.3 | W. | 40 | NE. | 1 | 1 | 6 | 6 | 8 | 9 | 9 | 10 | 11 | 0 | 2 | 9 | 19 | 9 | 6 | 4 | 0 | 0 | 5 | 0 | 15 | 1 | 0 |
| December | 11.0 | W. | 32 | E. | 0 | 0 | 3 | 3 | 6 | 5 | 16 | 22 | 7 | 0 | 2 | 11 | 18 | 17 | 12 | 15 | 0 | 0 | 25 | 0 | 27 | 0 | 0 |
| Year | 10.3 | NW. | 54 | S. | 11 | 54 | 42 | 54 | 79 | 88 | 79 | 158 | 174 | 2 | 88 | 121 | 156 | 155 | 102 | 84 | 0 | 16 | 88 | 2 | 166 | 21 | 2 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

MEMPHIS, TENN.

[$\phi$=35° 9′ N.; $\lambda$=90° 3′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.769 | 30.164 | 29.080 | 39.8 | 45.1 | 50.9 | 36.3 | 43.6 | 73 | 11 | 34 | 37 | 82 | 74 | 0.227 | 0.256 | 1.19 | 0.50 | 7.2 | 7.4 | 8.1 |
| February | 29.598 | 30.217 | 28.948 | 43.7 | 52.6 | 57.2 | 40.0 | 48.6 | 75 | 18 | 34 | 37 | 71 | 58 | .225 | .245 | 7.75 | 2.05 | 5.0 | 4.8 | 5.4 |
| March | 29.547 | 29.944 | 29.055 | 47.6 | 56.3 | 60.7 | 45.6 | 53.2 | 77 | 34 | 38 | 40 | 71 | 57 | .247 | .262 | 2.93 | 1.30 | 4.6 | 5.9 | 6.0 |
| April | 29.614 | 29.984 | 29.136 | 56.2 | 65.4 | 70.9 | 52.6 | 61.8 | 83 | 39 | 46 | 46 | 68 | 53 | .328 | .339 | 6.49 | 2.72 | 5.4 | 5.1 | 5.0 |
| May | 29.520 | 29.854 | 29.267 | 62.4 | 70.6 | 74.7 | 59.2 | 67.0 | 84 | 44 | 56 | 58 | 80 | 66 | .463 | .500 | 6.26 | 1.74 | 6.0 | 4.5 | 5.8 |
| June | 29.583 | 29.773 | 29.326 | 72.8 | 81.0 | 85.4 | 70.6 | 78.0 | 92 | 65 | 68 | 68 | 84 | 65 | .682 | .678 | 1.78 | .60 | 4.7 | 5.9 | 5.5 |
| July | 29.569 | 29.831 | 29.393 | 76.5 | 85.2 | 89.1 | 73.7 | 81.4 | 94 | 64 | 69 | 69 | 78 | 60 | .718 | .724 | 1.09 | .48 | 4.0 | 4.1 | 4.8 |
| August | 29.595 | 29.801 | 29.296 | 75.5 | 84.6 | 90.4 | 73.8 | 82.1 | 96 | 65 | 67 | 68 | 76 | 58 | .679 | .694 | 2.08 | 1.02 | 3.2 | 3.5 | 3.9 |
| September | 29.647 | 29.881 | 28.991 | 66.2 | 76.2 | 81.7 | 64.6 | 73.2 | 94 | 47 | 59 | 62 | 80 | 62 | .533 | .576 | 4.09 | 2.37 | 3.3 | 2.6 | 3.8 |
| October | 29.711 | 29.946 | 29.411 | 55.6 | 67.0 | 73.1 | 53.8 | 63.4 | 86 | 40 | 47 | 49 | 75 | 55 | .349 | .378 | 1.03 | .39 | 1.3 | 1.9 | 2.5 |
| November | 29.766 | 30.107 | 29.351 | 54.8 | 63.1 | 69.3 | 52.0 | 60.6 | 82 | 32 | 46 | 48 | 74 | 60 | .339 | .357 | 4.87 | 2.68 | 4.2 | 2.8 | 3.9 |
| December | 29.704 | 30.109 | 29.324 | 32.4 | 38.3 | 43.0 | 29.4 | 36.2 | 74 | 16 | 26 | 28 | 75 | 67 | .155 | .171 | 5.73 | 3.04 | 4.7 | 3.9 | 5.2 |
| Year | 29.635 | 30.217 | 28.948 | 57.0 | 65.4 | 70.5 | 54.3 | 62.4 | 96 | 11 | 49 | 51 | 76 | 61 | .412 | .432 | 45.29 | 3.04 | 4.5 | 4.4 | 5.0 |

MERIDIAN, MISS.

[$\phi$=32° 21′ N.; $\lambda$=88° 40′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.783 | 30.136 | 29.308 | 45.3 | 52.6 | 60.6 | 40.9 | 50.8 | 76 | 16 | 41 | 44 | 85 | 73 | 0.290 | 0.323 | 1.30 | 0.54 | 6.5 | 3.9 | 5.8 |
| February | 29.675 | 30.205 | 29.206 | 45.2 | 55.0 | 62.9 | 40.4 | 51.6 | 81 | 18 | 39 | 40 | 79 | 61 | .278 | .280 | 4.40 | .86 | 5.0 | 4.8 | 5.1 |
| March | 29.548 | 29.881 | 29.100 | 51.9 | 60.7 | 67.8 | 47.0 | 57.4 | 80 | 31 | 46 | 47 | 80 | 64 | .331 | .347 | 6.01 | 2.08 | 6.3 | 5.0 | 5.3 |
| April | 29.645 | 29.968 | 29.196 | 57.0 | 67.5 | 74.3 | 52.2 | 63.2 | 86 | 35 | 52 | 53 | 83 | 61 | .412 | .423 | 8.85 | 3.31 | 5.3 | 5.4 | 5.1 |
| May | 29.545 | 29.911 | 29.266 | 62.9 | 71.0 | 78.7 | 58.1 | 68.4 | 87 | 39 | 58 | 58 | 85 | 67 | .505 | .516 | 12.15 | 4.89 | 4.9 | 6.0 | 5.5 |
| June | 29.588 | 29.742 | 29.324 | 73.9 | 79.7 | 86.7 | 69.0 | 77.8 | 92 | 62 | 69 | 68 | 85 | 70 | .706 | .698 | 7.93 | 2.55 | 4.4 | 5.8 | 5.8 |
| July | 29.593 | 29.819 | 29.363 | 75.3 | 83.4 | 90.4 | 71.2 | 80.8 | 95 | 61 | 71 | 70 | 86 | 66 | .754 | .750 | 2.46 | 1.02 | 5.3 | 5.8 | 5.2 |
| August | 29.588 | 29.780 | 29.252 | 74.5 | 82.9 | 90.4 | 71.1 | 80.8 | 102 | 66 | 69 | 69 | 83 | 66 | .706 | .722 | .96 | .41 | 4.3 | 5.8 | 4.2 |
| September | 29.623 | 29.749 | 29.218 | 67.9 | 76.7 | 85.5 | 64.9 | 75.2 | 94 | 43 | 63 | 64 | 85 | 66 | .610 | .619 | 6.18 | 2.38 | 3.1 | 3.5 | 4.0 |
| October | 29.723 | 29.929 | 29.446 | 54.1 | 66.6 | 77.1 | 50.4 | 63.8 | 90 | 34 | 49 | 53 | 84 | 63 | .370 | .422 | 2.63 | 2.39 | 2.1 | 1.0 | 2.6 |
| November | 29.803 | 30.061 | 29.345 | 49.1 | 62.2 | 73.0 | 46.5 | 59.8 | 82 | 27 | 46 | 50 | 88 | 64 | .322 | .376 | .71 | .44 | 2.6 | 1.3 | 3.7 |
| December | 29.710 | 30.048 | 29.351 | 35.1 | 44.7 | 52.6 | 31.3 | 42.0 | 73 | 16 | 30 | 33 | 79 | 64 | .178 | .208 | 4.34 | 1.04 | 5.0 | 4.0 | 5.1 |
| Year | 29.652 | 30.205 | 29.100 | 57.7 | 66.9 | 75.0 | 53.6 | 64.3 | 102 | 16 | 53 | 54 | 84 | 65 | .455 | .474 | 57.92 | 4.89 | 4.6 | 4.4 | 4.8 |

MILES CITY, MONT.

[$\phi$=46° 25′ N.; $\lambda$=105° 49′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 27.465 | 28.116 | 26.782 | 3.9 | 14.3 | 23.2 | −0.1 | 11.6 | 49 | −30 | 0 | 8 | 82 | 75 | 0.050 | 0.084 | 0.65 | 0.20 | 3.7 | 5.3 | 4.6 |
| February | 27.392 | 28.055 | 26.981 | 17.1 | 27.0 | 34.2 | 13.6 | 23.9 | 52 | −22 | 13 | 20 | 82 | 72 | .092 | .125 | .68 | .37 | 4.4 | 6.1 | 4.6 |
| March | 27.463 | 27.952 | 26.995 | 24.0 | 40.0 | 45.5 | 22.4 | 34.0 | 63 | 6 | 20 | 28 | 83 | 62 | .107 | .155 | .29 | .14 | 5.6 | 5.0 | 4.7 |
| April | 27.441 | 27.902 | 27.047 | 29.8 | 44.8 | 51.8 | 27.1 | 39.4 | 70 | 12 | 23 | 31 | 75 | 59 | .127 | .175 | 1.15 | .25 | 6.3 | 6.5 | 5.0 |
| May | 27.361 | 27.668 | 26.940 | 46.6 | 61.9 | 68.0 | 42.2 | 55.1 | 87 | 20 | 40 | 44 | 78 | 57 | .257 | .301 | 2.16 | .65 | 4.9 | 6.5 | 5.2 |
| June | 27.436 | 27.695 | 27.133 | 60.1 | 75.4 | 79.1 | 55.9 | 67.5 | 97 | 48 | 54 | 57 | 81 | 57 | .424 | .478 | 2.19 | 1.44 | 4.5 | 5.0 | 4.1 |
| July | 27.414 | 27.792 | 27.124 | 66.1 | 82.2 | 87.7 | 61.3 | 74.5 | 105 | 49 | 56 | 58 | 74 | 47 | .464 | .481 | 2.63 | .93 | 4.6 | 3.5 | 3.0 |
| August | 27.446 | 27.831 | 27.164 | 64.7 | 85.5 | 90.4 | 60.8 | 75.6 | 104 | 42 | 55 | 55 | 71 | 39 | .447 | .448 | .77 | .27 | 3.0 | 2.7 | 1.9 |
| September | 27.488 | 27.912 | 27.084 | 51.0 | 70.5 | 77.5 | 50.3 | 63.9 | 94 | 36 | 46 | 50 | 84 | 52 | .312 | .362 | 1.11 | .65 | 4.0 | 4.5 | 4.3 |
| October | 27.507 | 27.930 | 27.029 | 37.0 | 54.3 | 62.3 | 35.8 | 49.0 | 82 | 14 | 32 | 40 | 82 | 60 | .184 | .250 | .12 | .12 | 4.9 | 4.5 | 4.0 |
| November | 27.451 | 27.910 | 26.880 | 28.0 | 38.0 | 46.5 | 24.7 | 35.6 | 76 | −5 | 24 | 28 | 84 | 69 | .136 | .168 | 1.19 | .64 | 5.8 | 4.4 | 4.7 |
| December | 27.549 | 27.880 | 27.112 | 10.3 | 15.6 | 21.9 | 4.0 | 13.0 | 48 | −17 | 8 | 11 | 90 | 80 | .074 | .080 | .37 | .10 | 5.9 | 5.1 | 4.9 |
| Year | 27.451 | 28.116 | 26.782 | 36.6 | 50.8 | 57.3 | 33.2 | 45.3 | 105 | −30 | 31 | 36 | 80 | 61 | .223 | .259 | 13.31 | 1.44 | 4.8 | 4.9 | 4.2 |

MILWAUKEE, WIS.

[$\phi$=43° 2′ N.; $\lambda$=87° 54′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.384 | 29.840 | 28.464 | 21.9 | 25.6 | 31.4 | 17.3 | 24.4 | 54 | −17 | 18 | 21 | 85 | 83 | 0.118 | 0.129 | 2.29 | 1.31 | 6.5 | 5.8 | 6.1 |
| February | 29.175 | 29.699 | 28.505 | 24.7 | 29.1 | 34.0 | 20.8 | 27.4 | 48 | 5 | 23 | 26 | 91 | 86 | .127 | .142 | 1.99 | .99 | 6.7 | 6.0 | 6.5 |
| March | 29.197 | 29.740 | 28.660 | 30.2 | 33.5 | 38.0 | 28.0 | 33.0 | 50 | 8 | 26 | 27 | 82 | 77 | .140 | .151 | .86 | .51 | 6.0 | 5.3 | 5.6 |
| April | 29.214 | 29.669 | 28.575 | 38.3 | 40.2 | 47.1 | 33.9 | 40.5 | 73 | 23 | 33 | 34 | 82 | 78 | .193 | .196 | 7.09 | 1.79 | 6.7 | 6.3 | 5.8 |
| May | 29.190 | 29.497 | 28.765 | 49.7 | 52.5 | 60.5 | 44.5 | 52.5 | 86 | 28 | 42 | 44 | 76 | 73 | .281 | .291 | 2.27 | 1.20 | 4.0 | 5.6 | 3.8 |
| June | 29.289 | 29.633 | 28.992 | 61.1 | 64.4 | 70 9 | 55.5 | 63.2 | 86 | 46 | 55 | 56 | 81 | 75 | .449 | .457 | 2.58 | .62 | 5.5 | 5.1 | 4.6 |
| July | 29.259 | 29.640 | 28.894 | 67.5 | 71.4 | 78.4 | 62.1 | 70.2 | 95 | 53 | 59 | 60 | 74 | 68 | .506 | .524 | 1.62 | 1.50 | 4.4 | 3.4 | 3.1 |
| August | 29.319 | 29.581 | 29.030 | 69.5 | 72.7 | 78.5 | 65.3 | 71.9 | 92 | 49 | 62 | 62 | 77 | 72 | .560 | .571 | 3.18 | .82 | 2.8 | 3.2 | 3.2 |
| September | 29.391 | 29.863 | 28.936 | 57.1 | 63.1 | 68.3 | 55.0 | 61.6 | 86 | 43 | 52 | 57 | 84 | 80 | .408 | .475 | 3.39 | 1.50 | 3.8 | 4.5 | 3.8 |
| October | 29.333 | 29.898 | 28.698 | 43.4 | 49.0 | 54.5 | 40.8 | 47.6 | 73 | 28 | 41 | 44 | 92 | 82 | .274 | .298 | .61 | .25 | 5.2 | 4.1 | 4.3 |
| November | 29.373 | 29.881 | 28.851 | 41.2 | 45.5 | 52.0 | 37.8 | 44.9 | 66 | 19 | 37 | 40 | 85 | 80 | .234 | .259 | 2.29 | .58 | 6.9 | 5.1 | 5.8 |
| December | 29.233 | 29.685 | 28.722 | 17.3 | 20.1 | 24.7 | 12.8 | 18.8 | 51 | −5 | 14 | 15 | 84 | 80 | .099 | .098 | 3.34 | .86 | 5.5 | 6.0 | 6.6 |
| Year | 29.280 | 29.898 | 28.464 | 43.5 | 47.3 | 53.2 | 39.5 | 46.3 | 95 | −17 | 38 | 40 | 83 | 78 | .282 | .299 | 31.51 | 1.79 | 5.3 | 5.0 | 4.9 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

MEMPHIS, TENN.

[H=399 ft.; $h_t$=76 ft.; $h_r$=69 ft.; $h_a$=97 ft.]

| Month. | Wind. | | | | | | | | | | | | | | Number of days. | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | By self-register. | | | | | Number of winds, 8 a. m. and 8 p. m. | | | | | | | | | | | | Precipitation. | | | | | Maximum temp. | | | Electricity. | | | | | |
| | Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Clear. | Partly cloudy. | Cloudy. | 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | 32° or below. | 90° or above. | Minimum temperature 32° or below. | Thunderstorms. | Auroras. | | | | |
| | *Miles* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 10.2 | S. | 64 | W. | 3 | 15 | 9 | 3 | 9 | 16 | 3 | 4 | 3 | 0 | 4 | 2 | 25 | 7 | 5 | 1 | 0 | 3 | 4 | 0 | 13 | 1 | 0 | | | |
| February | 11.8 | S. | 58 | W. | 2 | 0 | 0 | 6 | 6 | 19 | 8 | 7 | 10 | 0 | 9 | 8 | 11 | 12 | 9 | 0 | 1 | 0 | 0 | 0 | 7 | 5 | 0 | | | |
| March | 9.5 | N. | 38 | NW. | 0 | 15 | 10 | 7 | 4 | 8 | 3 | 2 | 8 | 0 | 9 | 9 | 13 | 14 | 11 | 0 | 0 | 3 | 0 | 0 | 0 | 6 | 0 | | | |
| April | 10.7 | S. | 48 | W. | 1 | 4 | 9 | 8 | 3 | 20 | 9 | 3 | 4 | 0 | 13 | 5 | 12 | 11 | 8 | 0 | 2 | 0 | 0 | 0 | 0 | 7 | 0 | | | |
| May | 9.0 | S. | 56 | NW. | 2 | 11 | 6 | 4 | 2 | 19 | 16 | 2 | 2 | 0 | 10 | 6 | 15 | 11 | 11 | 0 | 0 | 1 | 0 | 0 | 0 | 6 | 0 | | | |
| June | 6.5 | SW. | 48 | NW. | 1 | 4 | 9 | 6 | 7 | 11 | 15 | 4 | 4 | 0 | 9 | 12 | 9 | 10 | 6 | 0 | 0 | 0 | 0 | 5 | 0 | 13 | 0 | | | |
| July | 7.8 | SW. | 48 | NW. | 1 | 11 | 11 | 7 | 3 | 5 | 19 | 2 | 4 | 0 | 13 | 9 | 9 | 5 | 3 | 0 | 0 | 1 | 0 | 15 | 0 | 5 | 0 | | | |
| August | 6.3 | SW. | 21 | N. | 0 | 10 | 9 | 11 | 11 | 6 | 7 | 6 | 2 | 0 | 16 | 9 | 6 | 6 | 5 | 0 | 0 | 0 | 0 | 17 | 0 | 5 | 0 | | | |
| September | 7.2 | NE. | 40 | NW. | 1 | 17 | 13 | 12 | 7 | 7 | 4 | 0 | 0 | 0 | 16 | 6 | 8 | 7 | 6 | 0 | 0 | 1 | 0 | 9 | 0 | 4 | 0 | | | |
| October | 7.2 | SW. | 36 | NW. | 0 | 8 | 7 | 10 | 11 | 11 | 8 | 3 | 3 | 1 | 21 | 5 | 5 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | | | |
| November | 8.8 | S. | 42 | NW. | 2 | 3 | 5 | 5 | 16 | 19 | 5 | 2 | 5 | 0 | 17 | 5 | 8 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | | | |
| December | 9.8 | NW. | 40 | W. | 1 | 8 | 7 | 4 | 9 | 8 | 8 | 5 | 13 | 0 | 13 | 6 | 12 | 8 | 8 | 2 | 0 | 0 | 6 | 0 | 24 | 0 | 0 | | | |
| Year | 8.7 | S. | 64 | W. | 14 | 106 | 95 | 83 | 88 | 149 | 110 | 40 | 58 | 1 | 150 | 82 | 133 | 102 | 82 | 3 | 3 | 9 | 10 | 46 | 45 | 58 | 0 | | | |

MERIDIAN, MISS.

[H=375 ft.; $h_t$=84 ft.; $h_r$=3 ft.; $h_a$=93 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 5.7 | N. | 38 | W. | 0 | 14 | 7 | 5 | 6 | 11 | 9 | 2 | 7 | 1 | 11 | 6 | 14 | 7 | 6 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | | | |
| February | 7.0 | S. | 30 | SW. | 0 | 2 | 3 | 3 | 4 | 14 | 8 | 10 | 10 | 2 | 9 | 9 | 10 | 11 | 9 | 0 | 1 | 0 | 0 | 0 | 8 | 7 | 0 | | | |
| March | 7.2 | N. | 25 | W. | 0 | 12 | 8 | 8 | 2 | 8 | 10 | 4 | 8 | 2 | 11 | 9 | 11 | 11 | 10 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 0 | | | |
| April | 6.8 | S. | 32 | SW. | 0 | 7 | 7 | 5 | 8 | 14 | 9 | 3 | 5 | 2 | 11 | 8 | 11 | 10 | 10 | 0 | 0 | 1 | 0 | 0 | 0 | 7 | 0 | | | |
| May | 5.6 | SE. | 34 | E. | 0 | 3 | 6 | 11 | 12 | 6 | 10 | 7 | 7 | 0 | 9 | 11 | 11 | 13 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | | | |
| June | 4.1 | NE. | 29 | SW. | 0 | 7 | 12 | 4 | 6 | 5 | 11 | 6 | 7 | 2 | 5 | 17 | 8 | 13 | 12 | 0 | 0 | 0 | 0 | 8 | 0 | 14 | 0 | | | |
| July | 4.5 | SW. | 22 | NW. | 0 | 4 | 5 | 10 | 3 | 7 | 19 | 12 | 1 | 1 | 6 | 21 | 4 | 8 | 6 | 0 | 0 | 0 | 0 | 22 | 0 | 9 | 0 | | | |
| August | 4.6 | NE. | 22 | NW. | 0 | 2 | 15 | 12 | 7 | 3 | 9 | 10 | 3 | 1 | 13 | 16 | 2 | 7 | 4 | 0 | 0 | 0 | 0 | 17 | 0 | 7 | 0 | | | |
| September | 5.4 | N. | 35 | E. | 0 | 16 | 6 | 12 | 5 | 3 | 7 | 2 | 1 | 8 | 14 | 14 | 2 | 11 | 9 | 0 | 0 | 0 | 0 | 9 | 0 | 8 | 0 | | | |
| October | 4.2 | SE. | 21 | SW. | 0 | 7 | 9 | 8 | 10 | 7 | 4 | 1 | 6 | 10 | 21 | 7 | 3 | 3 | 2 | 0 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | | | |
| November | 4.5 | S. | 26 | SW. | 0 | 5 | 7 | 8 | 8 | 13 | 5 | 2 | 6 | 6 | 16 | 11 | 3 | 3 | 3 | 0 | 0 | 1 | 0 | 0 | 2 | 2 | 0 | | | |
| December | 6.2 | N. | 32 | W. | 0 | 11 | 6 | 6 | 7 | 5 | 6 | 6 | 10 | 5 | 11 | 8 | 12 | 13 | 12 | 0 | 0 | 2 | 1 | 0 | 20 | 3 | 0 | | | |
| Year | 5.5 | SW. | 38 | W. | 0 | 90 | 91 | 92 | 78 | 96 | 107 | 65 | 71 | 40 | 137 | 137 | 91 | 110 | 94 | 0 | 1 | 6 | 1 | 58 | 41 | 74 | 0 | | | |

MILES CITY, MONT.

[H=2,371 ft.; $h_t$=26 ft.; $h_r$=32 ft.; $h_a$=48 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 4.9 | S. | 30 | NW. | 0 | 9 | 13 | 2 | 8 | 21 | 2 | 2 | 5 | 0 | 12 | 15 | 4 | 9 | 6 | 9 | 0 | 1 | 15 | 0 | 31 | 0 | 0 | | | |
| February | 5.9 | SE. | 26 | W. | 0 | 6 | 9 | 3 | 15 | 7 | 6 | 6 | 3 | 1 | 10 | 15 | 3 | 5 | 5 | 3 | 0 | 0 | 8 | 0 | 26 | 0 | 0 | | | |
| March | 6.1 | SE. | 34 | N. | 0 | 6 | 8 | 4 | 14 | 3 | 5 | 12 | 9 | 1 | 14 | 8 | 9 | 5 | 3 | 5 | 0 | 0 | 4 | 0 | 29 | 0 | 0 | | | |
| April | 7.2 | NW. | 29 | NW. | 0 | 7 | 9 | 2 | 7 | 3 | 9 | 6 | 17 | 0 | 7 | 18 | 5 | 10 | 6 | 6 | 0 | 0 | 1 | 0 | 26 | 1 | 0 | | | |
| May | 8.6 | NE. | 41 | W. | 1 | 3 | 13 | 12 | 10 | 2 | 5 | 10 | 7 | 0 | 7 | 17 | 7 | 15 | 11 | 0 | 2 | 0 | 0 | 0 | 5 | 5 | 0 | | | |
| June | 6.3 | NE. | 26 | NE. | 0 | 0 | 21 | 11 | 6 | 3 | 9 | 5 | 5 | 0 | 14 | 10 | 6 | 10 | 6 | 0 | 1 | 0 | 0 | 7 | 0 | 7 | 0 | | | |
| July | 6.0 | NE. | 36 | W. | 0 | 3 | 17 | 8 | 13 | 5 | 3 | 4 | 9 | 0 | 17 | 13 | 1 | 9 | 7 | 0 | 0 | 0 | 0 | 11 | 0 | 6 | 0 | | | |
| August | 5.0 | NE. | 36 | NW. | 0 | 3 | 14 | 12 | 11 | 2 | 7 | 3 | 10 | 0 | 25 | 6 | 0 | 6 | 5 | 0 | 0 | 0 | 0 | 18 | 0 | 5 | 0 | | | |
| September | 4.7 | SW. | 40 | NW. | 1 | 7 | 11 | 4 | 11 | 1 | 12 | 4 | 10 | 0 | 12 | 12 | 6 | 7 | 6 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | | | |
| October | 5.1 | NE. | 40 | NW. | 1 | 4 | 17 | 4 | 11 | 6 | 6 | 5 | 9 | 0 | 14 | 13 | 4 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 13 | 0 | 2 | | | |
| November | 5.1 | SE. | 27 | W. | 0 | 8 | 14 | 0 | 18 | 11 | 4 | 4 | 1 | 0 | 11 | 13 | 6 | 9 | 5 | 5 | 0 | 0 | 7 | 0 | 21 | 0 | 0 | | | |
| December | 6.4 | S. | 30 | NW. | 0 | 2 | 12 | 1 | 5 | 17 | 3 | 10 | 12 | 0 | 14 | 8 | 9 | 10 | 3 | 9 | 0 | 0 | 22 | 0 | 30 | 0 | 0 | | | |
| Year | 5.9 | NE. | 41 | W. | 3 | 58 | 158 | 63 | 129 | 81 | 71 | 71 | 97 | 2 | 157 | 148 | 60 | 96 | 64 | 37 | 3 | 2 | 57 | 41 | 181 | 24 | 2 | | | |

MILWAUKEE, WIS.

[H=681 ft.; $h_t$=122 ft.; $h_r$=116 ft.; $h_a$=139 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 12.0 | NW. | 37 | E. | 0 | 0 | 5 | 2 | 9 | 4 | 12 | 12 | 18 | 0 | 7 | 10 | 14 | 8 | 6 | 6 | 0 | 5 | 14 | 0 | 24 | 2 | 0 | | | |
| February | 12.9 | SW. | 55 | E. | 2 | 11 | 9 | 1 | 5 | 3 | 12 | 12 | 3 | 0 | 7 | 8 | 13 | 11 | 9 | 8 | 0 | 2 | 11 | 0 | 26 | 0 | 0 | | | |
| March | 10.8 | W. | 37 | N. | 0 | 4 | 12 | 7 | 5 | 1 | 3 | 22 | 8 | 0 | 10 | 12 | 9 | 10 | 4 | 4 | 0 | 0 | 3 | 0 | 24 | 0 | 0 | | | |
| April | 13.8 | W. | 54 | NE. | 5 | 7 | 6 | 8 | 9 | 6 | 5 | 10 | 9 | 0 | 7 | 12 | 11 | 19 | 12 | 3 | 2 | 1 | 1 | 0 | 4 | 7 | 0 | | | |
| May | 10.7 | N. | 42 | SW. | 1 | 13 | 11 | 4 | 8 | 5 | 9 | 8 | 4 | 0 | 14 | 14 | 3 | 10 | 5 | 1 | 0 | 1 | 0 | 0 | 2 | 4 | 1 | | | |
| June | 8.8 | N. | 31 | NE. | 0 | 18 | 10 | 4 | 6 | 6 | 6 | 9 | 1 | 0 | 10 | 15 | 5 | 10 | 8 | 0 | 0 | 1 | 0 | 0 | 0 | 5 | 0 | | | |
| July | 8.7 | NE. | 58 | NW. | 1 | 2 | 14 | 5 | 7 | 11 | 9 | 12 | 2 | 0 | 20 | 9 | 2 | 5 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 6 | 0 | | | |
| August | 8.8 | NE. | 27 | NE. | 0 | 4 | 16 | 4 | 3 | 18 | 7 | 7 | 3 | 0 | 18 | 10 | 3 | 8 | 7 | 0 | 0 | 0 | 0 | 2 | 0 | 5 | 0 | | | |
| September | 9.7 | W. | 38 | SW. | 0 | 5 | 11 | 1 | 7 | 11 | 6 | 9 | 10 | 0 | 15 | 10 | 5 | 10 | 8 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | | | |
| October | 11.4 | W. | 32 | SE. | 0 | 2 | 6 | 4 | 6 | 9 | 9 | 20 | 6 | 0 | 15 | 9 | 7 | 7 | 4 | 2 | 0 | 1 | 0 | 0 | 6 | 0 | 2 | | | |
| November | 13.7 | S. | 40 | NE. | 1 | 1 | 10 | 4 | 6 | 18 | 9 | 8 | 4 | 0 | 9 | 10 | 11 | 10 | 7 | 1 | 0 | 1 | 0 | 0 | 6 | 0 | 0 | | | |
| December | 12.1 | W. | 46 | E. | 2 | 1 | 2 | 5 | 6 | 2 | 7 | 32 | 7 | 0 | 8 | 10 | 13 | 17 | 12 | 14 | 0 | 1 | 24 | 0 | 27 | 0 | 0 | | | |
| Year | 11.1 | W. | 58 | NW. | 12 | 68 | 112 | 49 | 77 | 94 | 94 | 161 | 75 | 0 | 140 | 129 | 96 | 125 | 84 | 39 | 2 | 13 | 53 | 4 | 119 | 29 | 3 | | | |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

MINNEAPOLIS, MINN.

[$\phi$=44° 59′ N.; $\lambda$=93° 18′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | | | | | 17.4 | 22.5 | 6.5 | 14.5 | 44 | −26 | | 15 | | 88 | | 0.105 | 1.37 | 0.89 | | | 6.0 |
| February | | | | | 21.1 | 25.9 | 10.1 | 18.0 | 47 | −15 | | 17 | | 84 | | .101 | 2.14 | .81 | | | 5.8 |
| March | | | | | 31.8 | 35.5 | 22.9 | 29.2 | 50 | 2 | | 23 | | 78 | | .139 | .40 | .16 | | | 5.6 |
| April | | | | | 41.9 | 46.7 | 30.3 | 38.5 | 65 | 18 | | 32 | | 69 | | .187 | 2.24 | .60 | | | 6.0 |
| May | | | | | 60.8 | 65.3 | 45.9 | 55.6 | 88 | 24 | | 48 | | 64 | | .346 | 3.85 | .98 | | | 5.5 |
| June | | | | | 71.2 | 76.7 | 58.1 | 67.4 | 90 | 44 | | 57 | | 64 | | .491 | 2.68 | 1.08 | | | 5.6 |
| July | | | | | 76.8 | 81.0 | 62.2 | 71.6 | 92 | 54 | | 60 | | 56 | | .521 | 5.03 | 3.75 | | | 4.0 |
| August | | | | | 78.2 | 83.1 | 64.6 | 73.8 | 93 | 48 | | 62 | | 59 | | .578 | 2.09 | .63 | | | 4.2 |
| September | | | | | 64.1 | 70.4 | 51.6 | 61.0 | 84 | 43 | | 51 | | 65 | | .396 | 2.98 | .98 | | | 4.7 |
| October | | | | | 49.5 | 54.5 | 39.2 | 46.8 | 83 | 23 | | 38 | | 64 | | .244 | 2.05 | 1.40 | | | 5.5 |
| November | | | | | 38.9 | 45.4 | 29.8 | 37.6 | 66 | 9 | | 32 | | 77 | | .189 | 2.74 | 1.08 | | | 6.7 |
| December | | | | | 14.7 | 18.5 | 6.5 | 12.5 | 48 | −17 | | 11 | | 84 | | .079 | 2.38 | .91 | | | 7.4 |
| Year | | | | | 47.2 | 52.1 | 35.6 | 43.9 | 93 | −26 | | 37 | | 71 | | .281 | 29.95 | 3.75 | | | 5.6 |

MOBILE, ALA.

[$\phi$=30° 41′ N.; $\lambda$=88° 02′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 30.113 | 30.455 | 29.702 | 50.3 | 58.1 | 65.5 | 47.5 | 56.5 | 76 | 23 | 45 | 49 | 84 | 73 | 0.338 | 0.384 | 1.50 | 0.69 | 5.2 | 3.8 | 4.3 |
| February | 30.045 | 30.521 | 29.621 | 49.2 | 58.0 | 63.7 | 46.0 | 54.8 | 73 | 24 | 42 | 48 | 77 | 71 | .302 | .367 | 4.08 | 1.33 | 4.1 | 5.0 | 4.9 |
| March | 29.889 | 30.186 | 29.550 | 57.9 | 63.7 | 70.9 | 54.5 | 62.7 | 79 | 38 | 51 | 53 | 79 | 72 | .406 | .434 | 2.39 | .94 | 5.2 | 5.2 | 5.2 |
| April | 30.005 | 30.263 | 29.608 | 62.1 | 67.5 | 74.0 | 58.7 | 66.4 | 84 | 43 | 56 | 59 | 82 | 74 | .486 | .520 | 9.04 | 3.23 | 5.5 | 5.1 | 5.1 |
| May | 29.891 | 30.249 | 29.637 | 68.6 | 72.4 | 79.0 | 63.9 | 71.4 | 88 | 50 | 62 | 63 | 81 | 75 | .587 | .605 | 12.10 | 3.38 | 5.0 | 4.6 | 4.9 |
| June | 29.921 | 30.085 | 29.573 | 77.4 | 80.3 | 87.2 | 73.4 | 80.3 | 94 | 69 | 71 | 72 | 82 | 76 | .770 | .774 | 10.44 | 4.08 | 3.5 | 5.2 | 5.2 |
| July | 29.931 | 30.150 | 29.677 | 78.8 | 82.3 | 90.4 | 75.0 | 82.7 | 98 | 68 | 73 | 74 | 82 | 75 | .804 | .825 | 8.28 | 2.02 | 4.5 | 7.3 | 5.8 |
| August | 29.908 | 30.068 | 29.605 | 78.1 | 81.6 | 90.1 | 75.1 | 82.6 | 101 | 71 | 73 | 73 | 84 | 76 | .804 | .817 | 5.63 | 1.92 | 3.7 | 6.6 | 5.2 |
| September | 29.931 | 30.052 | 29.563 | 72.9 | 77.9 | 87.3 | 70.2 | 78.8 | 95 | 52 | 67 | 68 | 81 | 74 | .682 | .717 | 5.42 | 2.35 | 4.1 | 5.5 | 4.3 |
| October | 30.046 | 30.226 | 29.756 | 62.2 | 72.1 | 80.0 | 59.7 | 69.8 | 92 | 42 | 54 | 57 | 77 | 62 | .448 | .492 | 1.60 | 1.37 | 2.1 | 1.6 | 1.9 |
| November | 30.134 | 30.382 | 29.762 | 57.0 | 66.2 | 74.9 | 54.4 | 64.6 | 82 | 36 | 51 | 56 | 81 | 72 | .398 | .478 | .50 | .24 | 2.4 | 1.0 | 2.1 |
| December | 30.045 | 30.433 | 29.712 | 43.0 | 50.2 | 57.4 | 39.8 | 48.6 | 73 | 22 | 36 | 40 | 76 | 69 | .238 | .279 | 7.50 | 3.42 | 3.8 | 4.0 | 4.0 |
| Year | 29.988 | 30.521 | 29.550 | 63.1 | 69.2 | 76.7 | 59.8 | 68.3 | 101 | 22 | 57 | 59 | 80 | 72 | .522 | .558 | 68.48 | 4.08 | 4.1 | 4.6 | 4.4 |

MODENA, UTAH.

[$\phi$=37° 48′ N.; $\lambda$= 113° 54′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 24.586 | 24.899 | 24.150 | 30.1 | 38.1 | 43.6 | 26.0 | 34.8 | 58 | 8 | 25 | 30 | 80 | 72 | 0.140 | 0.172 | 0.60 | 0.41 | 5.5 | 6.9 | 6.6 |
| February | 24.569 | 24.877 | 24.032 | 24.8 | 38.1 | 41.7 | 21.2 | 31.4 | 54 | 7 | 20 | 27 | 80 | 64 | .108 | .150 | 1.04 | .32 | 4.9 | 5.5 | 5.8 |
| March | 24.510 | 24.825 | 24.238 | 27.2 | 44.3 | 48.1 | 24.8 | 36.4 | 59 | 12 | 23 | 32 | 82 | 64 | .122 | .189 | .95 | .40 | 3.6 | 5.2 | 5.2 |
| April | 24.565 | 25.006 | 24.212 | 32.2 | 56.2 | 59.7 | 29.5 | 44.6 | 73 | 18 | 23 | 32 | 69 | 42 | .124 | .184 | .19 | .11 | 3.0 | 4.1 | 3.8 |
| May | 24.514 | 24.795 | 24.277 | 37.0 | 64.2 | 68.1 | 35.3 | 51.7 | 77 | 22 | 22 | 20 | 52 | 18 | .116 | .108 | .02 | .02 | 2.5 | 4.8 | 3.8 |
| June | 24.589 | 24.750 | 24.375 | 50.1 | 80.2 | 82.9 | 47.8 | 65.4 | 94 | 40 | 27 | 22 | 41 | 12 | .147 | .119 | T. | T. | 1.6 | 2.6 | 2.7 |
| July | 24.633 | 24.789 | 24.376 | 57.4 | 81.8 | 86.9 | 54.7 | 70.8 | 96 | 43 | 36 | 36 | 48 | 25 | .235 | .235 | .87 | .47 | 2.6 | 3.4 | 3.2 |
| August | 24.668 | 24.782 | 24.525 | 58.1 | 77.1 | 83.6 | 56.5 | 70.0 | 92 | 45 | 48 | 47 | 71 | 42 | .347 | .342 | 3.53 | 2.08 | 4.1 | 6.6 | 5.7 |
| September | 24.699 | 24.932 | 24.508 | 45.9 | 67.3 | 72.0 | 43.2 | 57.6 | 79 | 30 | 34 | 37 | 73 | 38 | .234 | .234 | 1.21 | .82 | 2.3 | 3.6 | 4.1 |
| October | 24.689 | 24.980 | 24.454 | 34.4 | 59.8 | 66.0 | 31.9 | 49.0 | 74 | 16 | 23 | 24 | 63 | 25 | .126 | .130 | .10 | .10 | 2.5 | 3.7 | 3.6 |
| November | 24.645 | 24.906 | 24.310 | 26.5 | 39.8 | 48.9 | 22.3 | 35.6 | 71 | −7 | 20 | 25 | 75 | 60 | .111 | .138 | 1.96 | .80 | 3.5 | 4.2 | 5.1 |
| December | 24.597 | 24.926 | 24.247 | 13.4 | 22.7 | 30.8 | 9.0 | 19.9 | 49 | −11 | 10 | 17 | 86 | 77 | .074 | .098 | 1.02 | .28 | 4.4 | 6.0 | 5.7 |
| Year | 24.605 | 25.000 | 24.032 | 36.4 | 55.8 | 61.0 | 33.5 | 47.3 | 96 | −11 | 26 | 29 | 68 | 45 | .157 | .175 | 11.49 | 2.08 | 3.4 | 4.7 | 4.6 |

MONTGOMERY, ALA.

[$\phi$=32° 23′ N.; $\lambda$=86° 18′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.941 | 30.253 | 29.415 | 46.3 | 55.0 | 61.5 | 42.7 | 52.1 | 77 | 16 | 42 | 44 | 84 | 67 | 0.288 | 0.313 | 2.13 | 1.91 | 5.5 | 3.8 | 5.4 |
| February | 29.852 | 30.352 | 29.354 | 45.8 | 57.0 | 62.9 | 42.4 | 52.6 | 78 | 20 | 39 | 39 | 76 | 54 | .267 | .279 | 9.05 | 4.35 | 4.3 | 5.2 | 5.4 |
| March | 29.718 | 30.021 | 29.314 | 52.3 | 61.7 | 68.0 | 48.3 | 58.2 | 80 | 34 | 45 | 45 | 77 | 57 | .318 | .322 | 16.51 | 5.72 | 6.1 | 5.6 | 5.4 |
| April | 29.829 | 30.140 | 29.417 | 57.9 | 69.1 | 74.8 | 54.4 | 64.6 | 87 | 39 | 51 | 53 | 80 | 60 | .406 | .427 | 7.40 | 1.89 | 4.3 | 4.4 | 4.5 |
| May | 29.722 | 30.079 | 29.438 | 64.5 | 73.0 | 80.0 | 60.4 | 70.2 | 88 | 44 | 58 | 60 | 89 | 66 | .506 | .542 | 4.81 | 1.87 | 5.7 | 5.1 | 5.2 |
| June | 29.757 | 29.932 | 29.434 | 74.6 | 79.7 | 88.0 | 70.4 | 79.2 | 94 | 63 | 70 | 70 | 85 | 74 | .731 | .735 | 7.21 | 2.54 | 3.9 | 6.7 | 5.6 |
| July | 29.756 | 29.990 | 29.495 | 75.9 | 81.7 | 89.9 | 72.1 | 81.0 | 96 | 65 | 71 | 70 | 84 | 71 | .758 | .751 | 4.21 | 1.58 | 6.1 | 6.3 | 5.6 |
| August | 29.749 | 29.962 | 29.396 | 75.2 | 83.2 | 91.0 | 72.1 | 81.6 | 98 | 66 | 70 | 69 | 84 | 65 | .729 | .723 | 3.17 | 2.06 | 3.7 | 5.1 | 4.4 |
| September | 29.785 | 29.911 | 29.604 | 69.7 | 77.6 | 86.5 | 66.8 | 76.6 | 95 | 48 | 64 | 64 | 83 | 65 | .621 | .622 | 1.59 | .43 | 4.3 | 4.0 | 4.3 |
| October | 29.889 | 30.125 | 29.550 | 56.0 | 69.8 | 77.9 | 53.1 | 65.5 | 91 | 35 | 50 | 50 | 79 | 52 | .373 | .382 | .60 | .35 | 1.7 | 0.9 | 1.9 |
| November | 29.981 | 30.273 | 29.553 | 52.1 | 65.7 | 73.8 | 49.2 | 61.5 | 84 | 30 | 46 | 46 | 80 | 52 | .329 | .335 | .92 | .49 | 2.0 | 1.0 | 2.4 |
| December | 29.868 | 30.224 | 29.529 | 37.9 | 46.3 | 52.5 | 34.5 | 43.5 | 70 | 18 | 31 | 34 | 77 | 65 | .197 | .225 | 5.78 | 1.75 | 4.9 | 3.2 | 5.2 |
| Year | 29.821 | 30.352 | 29.314 | 59.0 | 68.3 | 75.6 | 55.5 | 65.6 | 98 | 16 | 53 | 54 | 81 | 62 | .460 | .471 | 63.38 | 5.72 | 4.4 | 4.3 | 4.6 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

MINNEAPOLIS, MINN.

[H=78 ft.; $h_t$=102 ft.; $h_r$=92 ft.; $h_a$= 208 ft.]

| Month. | Wind. | | | | | | | | | | | | | | Number of days. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | By self-register. | | | | | Number of winds, 8 a. m. and 8 p. m. | | | | | | | | | | | | Precipitation. | | | | | Maximum temp. | | | Electricity. | |
| | Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Clear. | Partly cloudy. | Cloudy. | 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | 32° or below. | 90° or above. | Minimum temperature 32° or below. | Thunderstorms. | Auroras. |
| | *Miles* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 12.5 | SE. | 53 | N. | 2 | 2 | 4 | 2 | 7 | 5 | 3 | 2 | 6 | 0 | 10 | 7 | 14 | 8 | 6 | 7 | 0 | 3 | 19 | 0 | 28 | 1 | 1 |
| February | 11.2 | W. | 39 | N. | 0 | 5 | 1 | 3 | 3 | 3 | 1 | 7 | 5 | 0 | 7 | 12 | 9 | 8 | 6 | 8 | 0 | 2 | 21 | 0 | 28 | 0 | 0 |
| March | 12.7 | W. | 45 | NW. | 3 | 0 | 0 | 3 | 4 | 1 | 8 | 9 | 6 | 0 | 8 | 13 | 10 | 5 | 4 | 5 | 0 | 0 | 8 | 0 | 29 | 0 | 1 |
| April | 14.6 | W. | 52 | W. | 6 | 0 | 3 | 3 | 6 | 0 | 6 | 8 | 4 | 0 | 8 | 9 | 13 | 10 | 7 | 7 | 1 | 0 | 1 | 0 | 19 | 2 | 0 |
| May | 13.1 | SE. | 50 | W. | 1 | 0 | 5 | 7 | 7 | 0 | 1 | 8 | 3 | 0 | 11 | 9 | 11 | 12 | 9 | 1 | 0 | 1 | 0 | 0 | 3 | 5 | 0 |
| June | 9.8 | E. | 36 | NW. | 0 | 2 | 1 | 6 | 4 | 5 | 4 | 4 | 4 | 0 | 11 | 6 | 13 | 9 | 8 | 0 | 0 | 0 | 0 | 1 | 0 | 10 | 0 |
| July | 10.6 | W. | 36 | NW. | 0 | 0 | 2 | 1 | 5 | 4 | 4 | 11 | 4 | 0 | 16 | 7 | 8 | 4 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| August | 10.8 | S. | 32 | S. | 0 | 1 | 2 | 6 | 4 | 9 | 1 | 3 | 5 | 0 | 15 | 8 | 8 | 13 | 12 | 0 | 0 | 2 | 0 | 5 | 0 | 12 | 0 |
| September | 10.2 | SE. | 42 | S. | 1 | 2 | 1 | 1 | 8 | 4 | 5 | 6 | 3 | 0 | 12 | 9 | 9 | 13 | 10 | 0 | 0 | 2 | 0 | 0 | 0 | 7 | 0 |
| October | 13.1 | SE. | 51 | NW. | 3 | 3 | 1 | 1 | 9 | 5 | 0 | 4 | 7 | 1 | 13 | 5 | 13 | 8 | 5 | 2 | 0 | 0 | 1 | 0 | 7 | 2 | 2 |
| November | 13.2 | S. | 40 | SW. | 1 | 3 | 3 | 3 | 2 | 8 | 2 | 4 | 5 | 0 | 7 | 6 | 17 | 8 | 7 | 3 | 0 | 1 | 8 | 0 | 16 | 0 | 0 |
| December | 11.4 | W. | 39 | W. | 0 | 2 | 0 | 4 | 2 | 3 | 3 | 17 | 0 | 0 | 7 | 5 | 19 | 14 | 9 | 12 | 0 | 0 | 28 | 0 | 29 | 0 | 0 |
| Year | 11.9 | W. | 53 | N. | 17 | 20 | 23 | 40 | 61 | 47 | 38 | 83 | 52 | 1 | 125 | 96 | 144 | 112 | 86 | 45 | 1 | 11 | 86 | 8 | 159 | 41 | 4 |

MOBILE, ALA.

[H=57 ft.; $h_t$=98 ft.; $h_r$=91 ft.; $h_a$=106 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 7.4 | N. | 34 | W. | 0 | 15 | 6 | 8 | 12 | 4 | 4 | 1 | 12 | 0 | 16 | 10 | 5 | 10 | 8 | 0 | 0 | 2 | 0 | 0 | 3 | 0 | 0 |
| February | 9.5 | SE. | 46 | SW. | 1 | 6 | 6 | 2 | 15 | 8 | 6 | 3 | 10 | 0 | 12 | 9 | 7 | 9 | 8 | 0 | 0 | 2 | 0 | 0 | 2 | 5 | 0 |
| March | 10.1 | SE. | 33 | S. | 0 | 11 | 3 | 5 | 15 | 8 | 8 | 3 | 9 | 0 | 10 | 10 | 11 | 7 | 7 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 |
| April | 9.7 | SE. | 37 | SW. | 0 | 13 | 5 | 0 | 20 | 10 | 4 | 1 | 7 | 0 | 10 | 11 | 9 | 9 | 7 | 0 | 2 | 1 | 0 | 0 | 0 | 7 | 0 |
| May | 8.1 | SE. | 34 | W. | 0 | 15 | 5 | 5 | 15 | 13 | 3 | 0 | 6 | 0 | 12 | 13 | 6 | 12 | 9 | 0 | 2 | 0 | 0 | 0 | 0 | 10 | 0 |
| June | 6.6 | SE. | 32 | N. | 0 | 6 | 10 | 6 | 11 | 9 | 6 | 4 | 8 | 0 | 6 | 19 | 5 | 13 | 10 | 0 | 0 | 0 | 0 | 7 | 0 | 13 | 0 |
| July | 6.7 | SW. | 33 | N. | 0 | 9 | 8 | 2 | 9 | 7 | 11 | 6 | 10 | 0 | 6 | 20 | 5 | 15 | 12 | 0 | 0 | 0 | 0 | 17 | 0 | 12 | 0 |
| August | 6.2 | NE. | 28 | W. | 0 | 10 | 13 | 5 | 5 | 6 | 10 | 7 | 6 | 0 | 8 | 16 | 7 | 17 | 15 | 0 | 0 | 0 | 0 | 18 | 0 | 11 | 0 |
| September | 7.6 | N. | 47 | SE. | 1 | 22 | 7 | 3 | 5 | 5 | 6 | 2 | 9 | 1 | 9 | 20 | 1 | 12 | 10 | 0 | 0 | 1 | 0 | 14 | 0 | 14 | 0 |
| October | 6.5 | N. | 29 | N. | 0 | 20 | 5 | 5 | 7 | 5 | 3 | 1 | 16 | 0 | 23 | 7 | 1 | 3 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 |
| November | 6.3 | N. | 23 | NW. | 0 | 14 | 4 | 11 | 12 | 5 | 4 | 0 | 10 | 0 | 21 | 8 | 1 | 7 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 |
| December | 8.5 | NW. | 28 | NW. | 0 | 16 | 2 | 6 | 8 | 2 | 7 | 3 | 18 | 0 | 15 | 11 | 5 | 14 | 13 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 0 |
| Year | 7.8 | N. | 47 | SE. | 2 | 157 | 74 | 58 | 134 | 82 | 72 | 31 | 121 | 1 | 148 | 154 | 63 | 128 | 106 | 0 | 4 | 9 | 0 | 58 | 11 | 79 | 0 |

MODENA, UTAH.

[H=5,479 ft.; $h_t$=10 ft., $h_r$=21 ft.; $h_a$=43 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 11.9 | W. | 46 | SW. | 4 | 1 | 2 | 6 | 2 | 0 | 10 | 24 | 17 | 0 | 6 | 10 | 15 | 8 | 3 | 5 | 0 | 0 | 2 | 0 | 23 | 0 | 0 |
| February | 10.4 | W. | 48 | W. | 2 | 3 | 7 | 4 | 1 | 1 | 11 | 18 | 11 | 0 | 6 | 14 | 8 | 9 | 8 | 8 | 0 | 0 | 2 | 0 | 28 | 0 | 0 |
| March | 10.5 | W. | 45 | SW. | 1 | 4 | 9 | 4 | 4 | 1 | 12 | 15 | 11 | 2 | 9 | 13 | 9 | 8 | 6 | 8 | 0 | 1 | 0 | 0 | 30 | 0 | 0 |
| April | 12.1 | NW. | 44 | SW. | 2 | 5 | 6 | 5 | 4 | 2 | 4 | 14 | 20 | 0 | 15 | 10 | 5 | 5 | 2 | 3 | 1 | 0 | 0 | 0 | 19 | 1 | 0 |
| May | 12.2 | NW. | 56 | SW. | 4 | 2 | 4 | 5 | 4 | 5 | 11 | 12 | 19 | 0 | 13 | 17 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 1 | 0 |
| June | 12.9 | SW. | 60 | SW. | 9 | 3 | 4 | 1 | 1 | 1 | 20 | 18 | 11 | 1 | 20 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| July | 13.0 | SW. | 48 | SW. | 3 | 1 | 1 | 3 | 1 | 3 | 28 | 21 | 4 | 0 | 15 | 14 | 2 | 4 | 4 | 0 | 0 | 0 | 0 | 8 | 0 | 6 | 0 |
| August | 9.5 | W. | 38 | SW. | 0 | 3 | 5 | 1 | 3 | 3 | 18 | 28 | 1 | 0 | 7 | 15 | 9 | 10 | 7 | 0 | 0 | 0 | 0 | 3 | 0 | 15 | 0 |
| September | 8.9 | W. | 37 | SW. | 0 | 0 | 6 | 10 | 4 | 0 | 14 | 23 | 3 | 0 | 15 | 9 | 6 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 0 |
| October | 9.5 | W. | 44 | SW. | 1 | 0 | 3 | 8 | 4 | 0 | 15 | 29 | 3 | 0 | 15 | 12 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 |
| November | 9.5 | W. | 47 | SW. | 2 | 4 | 7 | 3 | 0 | 1 | 15 | 26 | 3 | 1 | 10 | 11 | 9 | 9 | 7 | 0 | 0 | 0 | 4 | 0 | 25 | 1 | 0 |
| December | 8.7 | W. | 51 | SW. | 2 | 7 | 11 | 4 | 2 | 1 | 5 | 23 | 4 | 5 | 9 | 11 | 11 | 11 | 7 | 10 | 0 | 0 | 20 | 0 | 30 | 0 | 0 |
| Year | 10.8 | W. | 60 | SW. | 30 | 33 | 65 | 54 | 30 | 18 | 163 | 251 | 107 | 9 | 140 | 145 | 80 | 72 | 50 | 43 | 1 | 1 | 28 | 15 | 182 | 29 | 0 |

MONTGOMERY, ALA.

[H=223 ft.; $h_t$=100 ft.; $h_r$=71 ft.; $h_a$=112 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 7.1 | NW. | 35 | NW. | 0 | 8 | 6 | 11 | 9 | 4 | 5 | 4 | 15 | 9 | 11 | 6 | 14 | 5 | 4 | 0 | 0 | 3 | 0 | 0 | 3 | 2 | 0 |
| February | 8.4 | S. | 34 | SW. | 0 | 2 | 0 | 2 | 6 | 14 | 7 | 12 | 12 | 1 | 11 | 5 | 12 | 10 | 10 | 0 | 1 | 2 | 0 | 0 | 2 | 6 | 0 |
| March | 7.7 | N. | 32 | SW | 0 | 13 | 3 | 5 | 9 | 4 | 7 | 10 | 10 | 1 | 12 | 7 | 12 | 12 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 |
| April | 6.6 | SE. | 27 | SW. | 0 | 6 | 6 | 5 | 14 | 7 | 10 | 7 | 5 | 0 | 12 | 9 | 9 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| May | 6.4 | S. | 35 | S. | 0 | 9 | 8 | 3 | 12 | 15 | 6 | 7 | 2 | 0 | 13 | 10 | 8 | 12 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 |
| June | 5.0 | SE. | 27 | SW. | 0 | 5 | 5 | 9 | 12 | 8 | 10 | 3 | 7 | 1 | 7 | 17 | 6 | 14 | 13 | 0 | 1 | 0 | 0 | 11 | 0 | 17 | 0 |
| July | 5.4 | S. | 28 | N. | 0 | 4 | 8 | 7 | 10 | 10 | 10 | 6 | 6 | 1 | 9 | 15 | 7 | 11 | 9 | 0 | 0 | 0 | 0 | 16 | 0 | 7 | 0 |
| August | 5.5 | NE. | 23 | NE. | 0 | 4 | 16 | 12 | 5 | 6 | 12 | 6 | 1 | 0 | 13 | 10 | 8 | 6 | 5 | 0 | 0 | 0 | 0 | 20 | 0 | 11 | 0 |
| September | 6.4 | E. | 26 | SE. | 0 | 7 | 14 | 17 | 10 | 2 | 2 | 2 | 5 | 1 | 11 | 12 | 7 | 8 | 7 | 0 | 0 | 1 | 0 | 11 | 0 | 8 | 0 |
| October | 5.6 | E. | 28 | N. | 0 | 11 | 9 | 13 | 9 | 3 | 3 | 1 | 10 | 3 | 22 | 7 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| November | 5.1 | E. | 23 | W. | 0 | 5 | 2 | 19 | 13 | 4 | 4 | 2 | 6 | 5 | 21 | 7 | 2 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 |
| December | 6.3 | NW. | 29 | NW. | 0 | 13 | 5 | 9 | 7 | 3 | 4 | 5 | 14 | 2 | 12 | 6 | 13 | 13 | 13 | 0 | 0 | 3 | 0 | 0 | 15 | 3 | 0 |
| Year | 6.3 | SE. | 35 | NW. | 0 | 87 | 82 | 112 | 116 | 80 | 80 | 65 | 93 | 15 | 154 | 111 | 100 | 107 | 98 | 0 | 2 | 9 | 0 | 60 | 21 | 82 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

MOORHEAD, MINN.

[$\phi$=46° 52′ N.; $\lambda$=96° 44′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p.m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.098 | 29.698 | 28.512 | 0.9 | 8.2 | 14.8 | −4.1 | 5.4 | 37 | −28 | −1 | 6 | 89 | 88 | 0.053 | 0.072 | 0.96 | 0.58 | 3.4 | 3.9 | 4.9 |
| February | 28.980 | 29.690 | 28.397 | 6.1 | 12.7 | 17.2 | 2.4 | 9.8 | 37 | −17 | 5 | 11 | 92 | 91 | .059 | .077 | .34 | .18 | 5.9 | 5.2 | 6.0 |
| March | 28.997 | 29.570 | 28.502 | 20.7 | 28.0 | 32.9 | 19.0 | 26.0 | 46 | − 1 | 20 | 26 | 95 | 91 | .111 | .139 | .42 | .14 | 6.6 | 6.5 | 5.3 |
| April | 28.947 | 29.415 | 28.456 | 28.8 | 38.9 | 45.6 | 24.8 | 35.2 | 69 | 12 | 27 | 32 | 92 | 76 | .147 | .180 | 1.45 | .34 | 6.2 | 5.7 | 5.3 |
| May | 28.864 | 29.174 | 28.348 | 46.0 | 60.3 | 65.9 | 42.0 | 54.0 | 83 | 21 | 41 | 44 | 83 | 58 | .274 | .305 | 5.02 | 3.19 | 5.7 | 4.6 | 4.0 |
| June | 28.972 | 29.287 | 28.676 | 59.3 | 71.3 | 76.0 | 54.5 | 65.2 | 92 | 41 | 55 | 60 | 87 | 69 | .450 | .539 | 3.42 | 1.50 | 4.7 | 4.1 | 3.5 |
| July | 28.927 | 29.237 | 28.607 | 62.6 | 75.5 | 79.9 | 58.1 | 69.0 | 92 | 50 | 59 | 63 | 90 | 67 | .512 | .588 | 2.92 | 1.22 | 3.3 | 3.2 | 3.0 |
| August | 28.964 | 29.377 | 28.640 | 62.3 | 76.2 | 82.5 | 59.2 | 70.8 | 92 | 40 | 60 | 64 | 93 | 68 | .533 | .619 | 3.91 | 1.43 | 3.7 | 3.3 | 2.6 |
| September | 29.026 | 29.390 | 28.456 | 49.2 | 63.0 | 72.9 | 47.0 | 60.0 | 88 | 36 | 47 | 53 | 92 | 71 | .334 | .417 | 1.44 | .64 | 4.0 | 3.6 | 3.4 |
| October | 29.011 | 29.578 | 28.577 | 37.0 | 45.6 | 53.7 | 35.2 | 44.4 | 89 | 17 | 35 | 38 | 91 | 76 | .211 | .245 | 1.61 | 1.04 | 5.1 | 4.7 | 5.6 |
| November | 29.024 | 29.632 | 28.383 | 24.4 | 30.4 | 37.2 | 19.4 | 28.3 | 70 | − 2 | 22 | 26 | 91 | 82 | .130 | .147 | 1.44 | 1.26 | 6.5 | 4.6 | 6.2 |
| December | 29.040 | 29.385 | 28.557 | 6.0 | 7.1 | 12.9 | 0.4 | 6.6 | 38 | −23 | 5 | 6 | 94 | 93 | .058 | .060 | 1.74 | .56 | 7.4 | 5.0 | 7.0 |
| Year | 28.988 | 29.698 | 28.348 | 33.6 | 43.1 | 49.3 | 29.8 | 39.6 | 92 | −28 | 31 | 36 | 91 | 78 | .239 | .282 | 24.67 | 3.19 | 5.2 | 4.5 | 4.7 |

MOUNT TAMALPAIS, CAL.

[$\phi$=37° 56′ N.; $\lambda$=122° 35′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 27.472 | 27.752 | 27.088 | 42.3 | 42.8 | 45.9 | 40.3 | 43.1 | 56 | 28 | 42 | 42 | 98 | 97 | 0.271 | 0.273 | 15.63 | 2.71 | 7.5 | 8.3 | 8.8 |
| February | 27.562 | 27.821 | 27.076 | 40.2 | 43.2 | 47.1 | 37.8 | 42.4 | 55 | 32 | 40 | 42 | 97 | 97 | .245 | .272 | 8.10 | 1.99 | 3.7 | 4.0 | 7.0 |
| March | 27.527 | 27.812 | 27.038 | 39.6 | 44.6 | 48.7 | 37.5 | 43.1 | 59 | 32 | 36 | 41 | 89 | 89 | .214 | .260 | 3.57 | 1.34 | 1.8 | 3.4 | 5.4 |
| April | 27.585 | 27.803 | 27.312 | 51.0 | 58.0 | 63.1 | 47.1 | 55.1 | 76 | 34 | 38 | 44 | 63 | 61 | .229 | .289 | T. | T. | .5 | 1.6 | 1.8 |
| May | 27.522 | 27.758 | 27.358 | 50.6 | 58.0 | 62.6 | 47.4 | 55.0 | 82 | 36 | 36 | 40 | 60 | 54 | .212 | .251 | .10 | .09 | .7 | 1.5 | 2.0 |
| June | 27.514 | 27.631 | 27.265 | 57.7 | 64.4 | 69.6 | 53.0 | 61.3 | 92 | 40 | 39 | 45 | 54 | 52 | .243 | .299 | T. | T. | 1.2 | 1.6 | 1.8 |
| July | 27.524 | 27.629 | 27.390 | 63.3 | 71.0 | 75.5 | 59.6 | 67.6 | 92 | 43 | 38 | 41 | 42 | 36 | .231 | .262 | .00 | .00 | .4 | .5 | .5 |
| August | 27.502 | 27.595 | 27.322 | 67.1 | 73.2 | 77.9 | 63.0 | 70.4 | 88 | 45 | 34 | 41 | 34 | 34 | .206 | .267 | .00 | .00 | .4 | .1 | .0 |
| September | 27.538 | 27.678 | 27.395 | 63.0 | 67.6 | 73.4 | 59.0 | 66.2 | 93 | 44 | 39 | 42 | 49 | 49 | .246 | .284 | 1.16 | .83 | .8 | 2.6 | 2.6 |
| October | 27.613 | 27.765 | 27.389 | 55.2 | 58.6 | 62.7 | 52.3 | 57.5 | 78 | 40 | 44 | 47 | 72 | 71 | .292 | .329 | 2.37 | 1.15 | 1.9 | 3.5 | 4.7 |
| November | 27.632 | 27.876 | 27.284 | 46.6 | 48.6 | 52.8 | 44.1 | 48.4 | 69 | 33 | 40 | 42 | 79 | 82 | .259 | .282 | 3.93 | 1.11 | 3.9 | 4.7 | 5.6 |
| December | 27.520 | 27.829 | 27.095 | 39.9 | 42.3 | 46.1 | 37.4 | 41.8 | 57 | 29 | 33 | 34 | 80 | 76 | .196 | .199 | 7.30 | 1.87 | 4.2 | 4.6 | 6.5 |
| Year | 27.543 | 27.876 | 27.038 | 51.4 | 56.0 | 60.4 | 48.2 | 54.3 | 93 | 28 | 38 | 42 | 68 | 66 | .237 | .272 | 42.16 | 2.71 | 2.2 | 3.0 | 3.9 |

MOUNT WEATHER, VA.

[$\phi$=39° 4′ N.; $\lambda$=77° 53′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 28.249 | 28.662 | 27.393 | 31.0 | 33.6 | 41.5 | 25.8 | 33.6 | 67 | 7 | 25 | 26 | 80 | 77 | 0.152 | 0.155 | 2.84 | 1.38 | 5.8 | 4.5 | 6.2 |
| February | 28.090 | 28.491 | 27.528 | 35.8 | 38.5 | 45.8 | 30.6 | 38.2 | 61 | 9 | 29 | 31 | 75 | 76 | .170 | .183 | 3.42 | .71 | 5.5 | 4.3 | 6.4 |
| March | 28.005 | 28.533 | 27.167 | 32.7 | 37.7 | 45.1 | 27.9 | 36.5 | 68 | 19 | 25 | 28 | 73 | 67 | .144 | .155 | 1.88 | .70 | 5.0 | 3.5 | 5.5 |
| April | 28.209 | 28.724 | 27.881 | 44.2 | 50.5 | 58.1 | 39.3 | 48.7 | 82 | 20 | 36 | 39 | 76 | 68 | .225 | .255 | 4.74 | 3.02 | 4.1 | 3.4 | 5.7 |
| May | 28.132 | 28.438 | 27.678 | 55.5 | 61.1 | 67.7 | 50.6 | 59.2 | 82 | 31 | 45 | 45 | 72 | 58 | .315 | .310 | 2.99 | 1.57 | 3.5 | 4.8 | 5.4 |
| June | 28.210 | 28.439 | 27.893 | 65.3 | 68.7 | 75.4 | 61.5 | 68.4 | 85 | 48 | 59 | 61 | 82 | 78 | .481 | .551 | 5.91 | 1.06 | 4.0 | 4.8 | 5.9 |
| July | 28.189 | 28.456 | 27.877 | 66.0 | 70.1 | 78.2 | 60.9 | 69.6 | 89 | 48 | 57 | 57 | 73 | 64 | .476 | .475 | .97 | .62 | 3.4 | 4.1 | 3.8 |
| August | 28.246 | 28.515 | 27.788 | 64.6 | 68.6 | 76.4 | 61.1 | 68.8 | 90 | 52 | 58 | 58 | 80 | 70 | .485 | .485 | 2.64 | 1.19 | 2.9 | 4.3 | 4.5 |
| September | 28.302 | 28.577 | 28.078 | 57.6 | 61.7 | 68.9 | 53.7 | 61.3 | 76 | 40 | 52 | 53 | 83 | 74 | .405 | .415 | 2.58 | 1.18 | 2.8 | 3.2 | 4.4 |
| October | 28.256 | 28.655 | 27.856 | 45.5 | 49.3 | 57.0 | 41.5 | 49.2 | 72 | 29 | 35 | 37 | 69 | 70 | .214 | .249 | 1.90 | 1.32 | 3.2 | 1.6 | 3.7 |
| November | 28.340 | 28.743 | 27.822 | 43.9 | 47.0 | 54.9 | 39.7 | 47.3 | 70 | 24 | 35 | 38 | 74 | 72 | .219 | .246 | .97 | .35 | 3.7 | 2.9 | 4.3 |
| December | 28.072 | 28.511 | 27.399 | 23.5 | 27.0 | 32.5 | 20.4 | 26.4 | 56 | − 1 | 16 | 18 | 71 | 70 | .093 | .106 | 2.93 | 1.96 | 5.0 | 3.3 | 4.5 |
| Year | 28.191 | 28.743 | 27.167 | 47.1 | 51.2 | 58.5 | 42.8 | 50.6 | 90 | − 1 | 39 | 41 | 76 | 70 | .282 | .299 | 33.77 | 3.02 | 4.1 | 3.7 | 5.0 |

NANTUCKET, MASS.

[$\phi$=41° 17′ N.; $\lambda$=70° 06′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 30.073 | 30.660 | 28.928 | 33.7 | 34.9 | 40.7 | 28.8 | 34.8 | 53 | 20 | 29 | 30 | 82 | 81 | 0.169 | 0.176 | 4.54 | 2.47 | 7.2 | 4.3 | 7.7 |
| February | 29.914 | 30.396 | 29.060 | 33.9 | 35.1 | 41.3 | 29.4 | 35.4 | 52 | 15 | 28 | 29 | 79 | 79 | .167 | .175 | 4.88 | 1.39 | 5.5 | 3.9 | 6.9 |
| March | 29.761 | 30.324 | 29.017 | 35.8 | 36.4 | 41.8 | 31.6 | 36.7 | 51 | 24 | 30 | 31 | 78 | 80 | .170 | .176 | 3.34 | 1.19 | 5.0 | 5.2 | 5.4 |
| April | 30.042 | 30.664 | 29.597 | 44.0 | 42.8 | 49.7 | 38.6 | 44.2 | 59 | 27 | 39 | 38 | 82 | 85 | .244 | .238 | 4.40 | 1.10 | 6.2 | 4.4 | 5.7 |
| May | 29.912 | 30.274 | 29.522 | 52.9 | 50.3 | 58.7 | 46.7 | 52.7 | 71 | 40 | 47 | 46 | 83 | 87 | .331 | .317 | 4.32 | 1.34 | 5.1 | 5.3 | 5.5 |
| June | 29.950 | 30.271 | 29.632 | 61.9 | 58.2 | 67.7 | 55.0 | 61.4 | 84 | 46 | 57 | 55 | 84 | 89 | .470 | .437 | 2.30 | .75 | 4.4 | 4.2 | 5.2 |
| July | 29.907 | 30.192 | 29.462 | 68.1 | 63.9 | 73.2 | 60.6 | 66.9 | 82 | 54 | 61 | 60 | 80 | 86 | .545 | .518 | .98 | .56 | 3.5 | 3.7 | 4.5 |
| August | 29.987 | 30.344 | 29.411 | 67.7 | 64.2 | 73.2 | 60.7 | 67.0 | 89 | 56 | 61 | 60 | 79 | 86 | .535 | .516 | 1.72 | 1.53 | 4.6 | 4.0 | 5.0 |
| September | 30.086 | 30.461 | 29.766 | 63.0 | 61.5 | 68.7 | 57.8 | 63.2 | 79 | 53 | 58 | 58 | 85 | 88 | .497 | .489 | 3.71 | 1.47 | 5.8 | 4.0 | 6.0 |
| October | 29.980 | 30.458 | 29.489 | 52.7 | 52.2 | 59.0 | 48.7 | 53.8 | 76 | 36 | 46 | 44 | 76 | 76 | .318 | .305 | 4.40 | 1.43 | 3.7 | 3.6 | 4.9 |
| November | 30.106 | 30.703 | 29.550 | 46.7 | 46.6 | 51.8 | 42.5 | 47.2 | 66 | 31 | 41 | 41 | 83 | 81 | .273 | .270 | 6.39 | 2.88 | 7.4 | 5.0 | 7.1 |
| December | 29.804 | 30.474 | 28.724 | 31.2 | 32.7 | 37.8 | 28.6 | 33.2 | 52 | 11 | 24 | 25 | 72 | 72 | .133 | .140 | 1.85 | 1.10 | 5.3 | 4.5 | 5.4 |
| Year | 29.961 | 30.703 | 28.724 | 49.3 | 48.2 | 55.3 | 44.1 | 49.7 | 89 | 11 | 43 | 43 | 80 | 82 | .321 | .313 | 42.83 | 2.88 | 5.3 | 4.3 | 5.8 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

MOORHEAD, MINN.

[H=940 ft.; $h_1$=8 ft.; $h_2$=3 ft.; $h_a$=57 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 10.5 | NW. | 44 | NW. | 2 | 8 | 1 | 0 | 16 | 10 | 6 | 5 | 16 | 0 | 14 | 5 | 12 | 10 | 6 | 10 | 0 | 0 | 25 | 0 | 31 | 0 | 0 |
| February | 8.7 | N. | 30 | NW. | 0 | 17 | 3 | 1 | 7 | 6 | 3 | 5 | 14 | 0 | 9 | 4 | 15 | 4 | 3 | 4 | 0 | 0 | 27 | 0 | 28 | 0 | 0 |
| March | 9.5 | NW. | 30 | NW. | 0 | 10 | 4 | 1 | 12 | 5 | 1 | 4 | 25 | 0 | 12 | 8 | 11 | 9 | 4 | 9 | 0 | 0 | 15 | 0 | 31 | 0 | 0 |
| April | 11.0 | NW. | 38 | NW. | 0 | 9 | 7 | 3 | 9 | 9 | 1 | 7 | 15 | 0 | 12 | 8 | 10 | 15 | 8 | 11 | 0 | 0 | 0 | 0 | 26 | 0 | 0 |
| May | 9.5 | SE. | 36 | SE. | 0 | 5 | 6 | 8 | 19 | 3 | 3 | 5 | 13 | 0 | 15 | 12 | 4 | 13 | 10 | 1 | 1 | 0 | 0 | 0 | 7 | 3 | 1 |
| June | 6.7 | NE. | 30 | NE. | 0 | 9 | 11 | 3 | 10 | 10 | 7 | 3 | 7 | 0 | 15 | 11 | 4 | 15 | 10 | 0 | 0 | 0 | 0 | 1 | 0 | 9 | 0 |
| July | 6.7 | SE. | 24 | SE. | 0 | 7 | 2 | 2 | 21 | 6 | 5 | 7 | 12 | 0 | 17 | 13 | 1 | 9 | 7 | 0 | 0 | 0 | 0 | 1 | 0 | 9 | 0 |
| August | 6.7 | SE. | 28 | S. | 0 | 10 | 5 | 2 | 23 | 8 | 1 | 2 | 11 | 0 | 23 | 4 | 4 | 11 | 8 | 0 | 0 | 0 | 0 | 4 | 0 | 9 | 0 |
| September | 7.6 | SE. | 27 | SE. | 0 | 6 | 4 | 2 | 20 | 11 | 7 | 4 | 6 | 0 | 16 | 12 | 2 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 |
| October | 10.1 | NW. | 32 | SW. | 0 | 11 | 3 | 0 | 18 | 2 | 2 | 7 | 19 | 0 | 12 | 7 | 12 | 6 | 5 | 1 | 0 | 0 | 1 | 0 | 14 | 1 | 2 |
| November | 10.0 | NW. | 39 | N. | 0 | 12 | 2 | 1 | 12 | 9 | 0 | 6 | 18 | 0 | 8 | 7 | 15 | 4 | 4 | 4 | 0 | 0 | 13 | 0 | 25 | 0 | 0 |
| December | 8.9 | NW. | 30 | SE. | 0 | 12 | 4 | 0 | 3 | 5 | 7 | 4 | 27 | 0 | 5 | 12 | 14 | 14 | 9 | 13 | 0 | 0 | 30 | 0 | 31 | 0 | 0 |
| Year | 8.8 | NW. | 44 | NW. | 2 | 116 | 52 | 23 | 170 | 84 | 43 | 59 | 183 | 0 | 158 | 103 | 104 | 115 | 78 | 53 | 1 | 0 | 111 | 6 | 193 | 34 | 4 |

MOUNT TAMALPAIS, CAL.

[H=2,375 ft.; $h_1$=11 ft.; $h_c$=5 ft.; $h_a$=18 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 23.3 | SE. | 66 | SW. | 18 | 1 | 1 | 7 | 17 | 12 | 10 | 10 | 4 | 0 | 2 | 3 | 26 | 26 | 25 | 4 | 1 | 29 | 0 | 0 | 5 | 1 | 0 |
| February | 19.7 | NW. | 64 | NW. | 19 | 2 | 1 | 1 | 7 | 7 | 12 | 12 | 14 | 0 | 4 | 8 | 16 | 21 | 19 | 2 | 0 | 22 | 0 | 0 | 0 | 1 | 0 |
| March | 18.2 | NW. | 75 | NW. | 13 | 9 | 6 | 0 | 7 | 4 | 6 | 15 | 15 | 0 | 12 | 7 | 12 | 12 | 10 | 4 | 0 | 14 | 0 | 0 | 4 | 1 | 0 |
| April | 16.9 | NW. | 84 | NW. | 11 | 14 | 5 | 1 | 2 | 0 | 4 | 6 | 28 | 0 | 24 | 5 | 1 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| May | 19.1 | NW. | 74 | NW. | 14 | 11 | 1 | 0 | 0 | 1 | 0 | 10 | 39 | 0 | 24 | 5 | 2 | 3 | 1 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| June | 17.4 | NW. | 80 | NW. | 15 | 7 | 2 | 0 | 0 | 0 | 2 | 9 | 40 | 0 | 25 | 2 | 3 | 0 | 0 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 0 |
| July | 16.5 | NW. | 72 | NW. | 14 | 9 | 1 | 0 | 0 | 0 | 2 | 12 | 38 | 0 | 29 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 |
| August | 10.8 | NW. | 66 | NW. | 8 | 1 | 1 | 0 | 0 | 2 | 6 | 25 | 26 | 1 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| September | 15.7 | NW. | 62 | SW. | 12 | 6 | 4 | 3 | 2 | 3 | 11 | 9 | 22 | 0 | 22 | 4 | 4 | 5 | 5 | 0 | 0 | 7 | 0 | 2 | 0 | 1 | 0 |
| October | 12.9 | NW. | 54 | NW. | 5 | 6 | 6 | 4 | 6 | 3 | 7 | 11 | 19 | 0 | 13 | 8 | 10 | 9 | 8 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 |
| November | 18.2 | NW. | 58 | N. | 11 | 4 | 6 | 2 | 2 | 2 | 12 | 12 | 20 | 0 | 12 | 4 | 14 | 13 | 10 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 |
| December | 20.8 | NE. | 62 | NW. | 13 | 8 | 16 | 6 | 10 | 4 | 6 | 1 | 11 | 0 | 8 | 5 | 18 | 14 | 11 | 0 | 0 | 17 | 0 | 0 | 6 | 0 | 0 |
| Year | 17.5 | NW. | 84 | NW. | 153 | 78 | 50 | 24 | 53 | 38 | 78 | 132 | 276 | 1 | 206 | 53 | 106 | 103 | 89 | 10 | 1 | 132 | 0 | 4 | 15 | 4 | 0 |

MOUNT WEATHER, VA.

[H=1,725 ft.; $h_1$=10 ft.; $h_r$=3 ft.; $h_a$=54 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 17.1 | NW. | 69 | NW. | 9 | 4 | 4 | 1 | 9 | 3 | 12 | 7 | 22 | 0 | 9 | 10 | 12 | 9 | 7 | 2 | 0 | 8 | 10 | 0 | 23 | 0 | 0 |
| February | 18.8 | NW. | 58 | NW. | 10 | 2 | 0 | 1 | 10 | 5 | 10 | 6 | 22 | 0 | 5 | 12 | 11 | 10 | 8 | 2 | 1 | 8 | 1 | 0 | 15 | 1 | 0 |
| March | 20.3 | NW. | 78 | NW. | 12 | 3 | 0 | 1 | 7 | 6 | 6 | 4 | 35 | 0 | 10 | 8 | 13 | 14 | 8 | 4 | 0 | 8 | 1 | 0 | 24 | 0 | 0 |
| April | 17.1 | NW. | 57 | NW. | 5 | 1 | 1 | 2 | 20 | 5 | 4 | 3 | 24 | 0 | 7 | 11 | 12 | 11 | 9 | 1 | 0 | 9 | 0 | 0 | 4 | 7 | 0 |
| May | 13.8 | NW. | 56 | NW. | 4 | 3 | 4 | 1 | 11 | 8 | 6 | 5 | 24 | 0 | 8 | 16 | 7 | 10 | 8 | 0 | 0 | 9 | 0 | 0 | 1 | 4 | 2 |
| June | 10.2 | NW. | 36 | NW. | 0 | 1 | 1 | 10 | 12 | 3 | 11 | 8 | 14 | 0 | 6 | 14 | 10 | 17 | 14 | 6 | 0 | 9 | 0 | 0 | 0 | 15 | 0 |
| July | 11.6 | NW. | 49 | NW. | 1 | 2 | 3 | 3 | 13 | 5 | 5 | 7 | 24 | 0 | 16 | 12 | 3 | 5 | 4 | 0 | 0 | 2 | 0 | 0 | 0 | 8 | 0 |
| August | 9.9 | NW. | 33 | NW. | 0 | 4 | 1 | 7 | 15 | 5 | 2 | 12 | 16 | 0 | 13 | 11 | 7 | 10 | 9 | 0 | 0 | 7 | 0 | 0 | 0 | 5 | 0 |
| September | 11.3 | NW. | 43 | NW. | 2 | 1 | 4 | 3 | 21 | 4 | 3 | 3 | 21 | 0 | 14 | 9 | 7 | 6 | 6 | 0 | 0 | 13 | 0 | 0 | 0 | 3 | 0 |
| October | 14.1 | NW. | 44 | NW. | 2 | 3 | 1 | 3 | 11 | 5 | 5 | 8 | 26 | 0 | 15 | 12 | 4 | 5 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 2 | 0 |
| November | 16.6 | NW. | 54 | NW. | 8 | 1 | 2 | 2 | 12 | 9 | 3 | 5 | 26 | 0 | 13 | 11 | 6 | 7 | 4 | 1 | 0 | 5 | 1 | 0 | 9 | 0 | 0 |
| December | 19.8 | NW. | 73 | NW. | 10 | 2 | 0 | 1 | 10 | 1 | 3 | 5 | 40 | 0 | 13 | 11 | 7 | 7 | 4 | 4 | 0 | 5 | 18 | 0 | 28 | 0 | 0 |
| Year | 15.0 | NW. | 78 | NW. | 63 | 27 | 21 | 35 | 151 | 59 | 70 | 73 | 294 | 0 | 129 | 137 | 99 | 111 | 85 | 14 | 1 | 87 | 31 | 0 | 108 | 45 | 2 |

NANTUCKET, MASS.

[H=12 ft.; $h_1$=14 ft.; $h_r$=4 ft.; $h_a$=90 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 17.2 | NW. | 48 | SW. | 5 | 5 | 9 | 1 | 4 | 7 | 10 | 10 | 16 | 0 | 6 | 5 | 20 | 16 | 12 | 7 | 0 | 12 | 5 | 0 | 23 | 0 | 0 |
| February | 19.5 | W. | 53 | SW. | 9 | 7 | 5 | 1 | 6 | 2 | 8 | 18 | 9 | 0 | 3 | 15 | 10 | 10 | 9 | 0 | 0 | 4 | 3 | 0 | 17 | 0 | 0 |
| March | 17.4 | W. | 55 | NE. | 5 | 4 | 3 | 1 | 5 | 6 | 12 | 16 | 15 | 0 | 14 | 7 | 10 | 14 | 11 | 1 | 0 | 2 | 1 | 0 | 19 | 0 | 0 |
| April | 18.6 | S. | 46 | SW. | 3 | 3 | 10 | 0 | 10 | 11 | 13 | 5 | 8 | 0 | 9 | 12 | 9 | 10 | 10 | 0 | 0 | 4 | 0 | 0 | 2 | 3 | 0 |
| May | 17.6 | SW. | 57 | NE. | 3 | 5 | 11 | 7 | 2 | 9 | 14 | 8 | 6 | 0 | 9 | 14 | 8 | 9 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 3 | 0 |
| June | 15.9 | SW. | 48 | NE. | 1 | 5 | 7 | 1 | 7 | 7 | 22 | 10 | 1 | 0 | 13 | 7 | 10 | 12 | 8 | 0 | 0 | 10 | 0 | 0 | 0 | 5 | 0 |
| July | 13.9 | SW. | 47 | N. | 2 | 2 | 5 | 4 | 5 | 10 | 25 | 5 | 6 | 0 | 13 | 15 | 3 | 7 | 5 | 0 | 0 | 8 | 0 | 0 | 0 | 4 | 0 |
| August | 13.9 | SW. | 47 | E. | 1 | 7 | 10 | 9 | 6 | 6 | 13 | 9 | 2 | 0 | 13 | 9 | 9 | 3 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| September | 13.8 | SW. | 37 | NE. | 0 | 6 | 10 | 9 | 8 | 7 | 14 | 2 | 4 | 0 | 8 | 11 | 11 | 8 | 7 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| October | 13.9 | W. | 46 | NE. | 1 | 5 | 3 | 5 | 3 | 3 | 9 | 22 | 12 | 0 | 10 | 13 | 8 | 11 | 9 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 0 |
| November | 19.5 | NE. | 67 | NE. | 6 | 8 | 14 | 2 | 4 | 6 | 12 | 7 | 7 | 0 | 5 | 9 | 16 | 9 | 7 | 0 | 0 | 3 | 0 | 0 | 2 | 3 | 0 |
| December | 17.3 | NW. | 61 | E. | 5 | 9 | 2 | 3 | 2 | 0 | 1 | 17 | 28 | 0 | 11 | 11 | 9 | 10 | 7 | 2 | 0 | 0 | 4 | 0 | 20 | 1 | 0 |
| Year | 16.5 | SW. | 67 | NE. | 41 | 66 | 89 | 43 | 62 | 74 | 153 | 129 | 114 | 0 | 114 | 128 | 123 | 119 | 94 | 10 | 1 | 62 | 13 | 0 | 83 | 21 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

NARRAGANSETT PIER, R. I.

[$\phi$=41° 19′ N.; $\lambda$=71° 17′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | Cloudiness. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | | | | | | 39.0 | 22.1 | 30.6 | 57 | 3 | | | | | | | 5.07 | 2.00 | | | |
| February | | | | | | 41.1 | 24.4 | 32.8 | 60 | 3 | | | | | | | 6.68 | 2.18 | | | |
| March | | | | | | 45.0 | 26.8 | 35.9 | 58 | 17 | | | | | | | 2.71 | 1.20 | | | |
| April | | | | | | 51.7 | 35.9 | 43.8 | 60 | 21 | | | | | | | 6.35 | 2.67 | | | |
| May | | | | | | 62.0 | 45.7 | 53.8 | 80 | 37 | | | | | | | 4.06 | 1.67 | | | |
| June | | | | | | 71.9 | 55.1 | 63.5 | 90 | 45 | | | | | | | 2.02 | .82 | | | |
| July | | | | | | 75.5 | 58.2 | 66.8 | 87 | 46 | | | | | | | 1.16 | .57 | | | |
| August | | | | | | 76.2 | 58.3 | 67.2 | 89 | 47 | | | | | | | 2.16 | 1.18 | | | |
| September | | | | | | 71.4 | 53.1 | 62.2 | 77 | 43 | | | | | | | 3.85 | .86 | | | |
| October | | | | | | 62.1 | 37.1 | 49.6 | 81 | 18 | | | | | | | 2.03 | .80 | | | |
| November | | | | | | 53.7 | 29.2 | 41.4 | 76 | 16 | | | | | | | 4.36 | 1.35 | | | |
| December | | | | | | 38.5 | 21.9 | 30.2 | 54 | 2 | | | | | | | 2.65 | 1.32 | | | |
| Year | | | | | | 57.3 | 39.0 | 48.2 | 90 | 2 | | | | | | | 43.10 | 2.67 | | | |

NASHVILLE, TENN.

[$\phi$=36° 10′ N.; $\lambda$=86° 47′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.608 | 30.017 | 28.838 | 39.0 | 44.7 | 51.0 | 34.5 | 42.8 | 73 | 5 | 35 | 38 | 85 | 78 | 0.228 | 0.256 | 2.34 | 0.58 | 7.5 | 7.9 | 8.1 |
| February | 29.435 | 30.085 | 28.785 | 41.3 | 50.5 | 56.3 | 37.4 | 46.8 | 71 | 12 | 36 | 41 | 82 | 71 | .234 | .274 | 7.08 | 3.69 | 6.0 | 5.4 | 6.4 |
| March | 29.381 | 29.811 | 28.845 | 43.9 | 53.2 | 58.8 | 40.1 | 49.4 | 70 | 31 | 39 | 42 | 83 | 67 | .247 | .276 | 4.94 | 1.39 | 5.7 | 5.7 | 5.8 |
| April | 29.464 | 29.800 | 29.018 | 53.9 | 64.3 | 69.6 | 48.9 | 59.2 | 84 | 32 | 46 | 49 | 77 | 60 | .334 | .366 | 4.12 | 1.51 | 5.2 | 4.8 | 5.3 |
| May | 29.365 | 29.679 | 29.119 | 61.7 | 70.2 | 75.9 | 56.9 | 66.4 | 86 | 38 | 56 | 57 | 83 | 66 | .468 | .490 | 4.57 | 1.19 | 5.3 | 4.5 | 5.7 |
| June | 29.431 | 29.629 | 29.162 | 72.0 | 79.2 | 85.2 | 67.6 | 76.4 | 93 | 59 | 68 | 69 | 88 | 73 | .695 | .717 | 5.56 | 2.02 | 4.9 | 5.2 | 5.6 |
| July | 29.418 | 29.713 | 29.222 | 73.3 | 81.1 | 86.4 | 68.7 | 77.6 | 93 | 58 | 68 | 69 | 84 | 68 | .692 | .724 | 4.93 | 3.43 | 3.5 | 4.6 | 4.8 |
| August | 29.444 | 29.670 | 29.151 | 73.2 | 84.2 | 90.3 | 68.9 | 79.6 | 96 | 61 | 69 | 71 | 86 | 65 | .708 | .760 | 2.73 | 1.22 | 1.8 | 1.7 | 2.6 |
| September | 29.509 | 29.700 | 29.043 | 63.8 | 74.2 | 80.3 | 61.4 | 70.8 | 90 | 45 | 60 | 62 | 87 | 67 | .535 | .579 | 4.23 | 1.91 | 3.9 | 2.8 | 3.9 |
| October | 29.555 | 29.837 | 29.214 | 50.5 | 64.2 | 72.5 | 47.3 | 59.9 | 87 | 30 | 45 | 48 | 83 | 58 | .320 | .351 | 1.01 | .60 | 2.1 | 2.1 | 2.3 |
| November | 29.629 | 29.896 | 29.191 | 50.2 | 61.6 | 68.4 | 47.5 | 58.0 | 81 | 28 | 44 | 44 | 80 | 54 | .306 | .300 | 2.58 | 1.06 | 4.0 | 2.8 | 4.7 |
| December | 29.524 | 29.955 | 29.119 | 29.9 | 36.8 | 43.8 | 25.9 | 34.8 | 72 | 5 | 25 | 26 | 82 | 64 | .150 | .153 | 2.90 | 1.24 | 5.1 | 5.8 | 6.3 |
| Year | 29.490 | 30.085 | 28.785 | 54.4 | 63.7 | 69.9 | 50.4 | 60.1 | 96 | 5 | 49 | 51 | 83 | 66 | .410 | .437 | 46.99 | 3.69 | 4.6 | 4.4 | 5.1 |

NEW HAVEN, CONN.

[$\phi$=41° 18′ N.; $\lambda$=72° 56′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 30.001 | 30.581 | 28.966 | 28.1 | 31.4 | 38.1 | 23.3 | 30.7 | 58 | 1 | 21 | 23 | 74 | 72 | 0.128 | 0.134 | 3.38 | 1.32 | 6.0 | 5.9 | 6.3 |
| February | 29.825 | 30.291 | 29.025 | 30.2 | 34.8 | 41.6 | 27.0 | 34.3 | 56 | 1 | 22 | 26 | 71 | 69 | .131 | .148 | 6.98 | 2.16 | 5.7 | 4.5 | 5.9 |
| March | 29.695 | 30.290 | 28.789 | 33.1 | 37.1 | 43.5 | 29.5 | 36.5 | 55 | 19 | 23 | 26 | 65 | 63 | .127 | .142 | 4.20 | 2.09 | 3.4 | 4.2 | 5.1 |
| April | 29.942 | 30.519 | 29.512 | 44.3 | 47.7 | 55.2 | 39.2 | 47.2 | 74 | 23 | 33 | 36 | 66 | 68 | .200 | .228 | 6.66 | 3.12 | 5.1 | 5.2 | 5.4 |
| May | 29.813 | 30.190 | 29.476 | 55.3 | 58.1 | 66.2 | 48.5 | 57.4 | 83 | 38 | 44 | 45 | 69 | 65 | .304 | .311 | 2.19 | .43 | 5.8 | 5.3 | 5.1 |
| June | 29.850 | 30.144 | 29.614 | 66.5 | 68.0 | 77.6 | 59.9 | 68.8 | 93 | 49 | 55 | 58 | 68 | 72 | .448 | .498 | 3.47 | 1.57 | 4.3 | 5.1 | 4.9 |
| July | 29.809 | 30.148 | 29.335 | 69.2 | 70.9 | 80.5 | 61.5 | 71.0 | 93 | 53 | 57 | 58 | 67 | 65 | .478 | .489 | 1.43 | .81 | 3.2 | 3.3 | 3.5 |
| August | 29.894 | 30.264 | 29.327 | 66.5 | 69.3 | 78.1 | 59.5 | 68.8 | 93 | 49 | 56 | 58 | 71 | 68 | .463 | .490 | 3.49 | 1.66 | 3.6 | 4.2 | 4.6 |
| September | 29.986 | 30.372 | 29.640 | 60.1 | 63.0 | 71.5 | 54.2 | 62.8 | 78 | 42 | 53 | 55 | 78 | 75 | .420 | .440 | 3.93 | 1.20 | 5.7 | 4.2 | 4.9 |
| October | 29.915 | 30.435 | 29.503 | 47.2 | 52.5 | 60.5 | 42.6 | 51.6 | 78 | 31 | 38 | 40 | 72 | 64 | .246 | .267 | 1.76 | 1.04 | 3.6 | 3.9 | 4.0 |
| November | 30.027 | 30.603 | 29.362 | 43.6 | 46.0 | 53.7 | 38.6 | 46.2 | 73 | 26 | 35 | 34 | 72 | 65 | .219 | .220 | 1.51 | .67 | 5.3 | 3.9 | 5.7 |
| December | 29.762 | 30.382 | 28.757 | 25.6 | 30.3 | 36.5 | 23.8 | 30.2 | 54 | 1 | 17 | 20 | 66 | 63 | .095 | .111 | 4.70 | 2.06 | 3.0 | 2.8 | 4.2 |
| Year | 29.877 | 30.603 | 28.757 | 47.5 | 50.8 | 58.6 | 42.3 | 50.5 | 93 | 1 | 38 | 40 | 70 | 67 | .272 | .290 | 43.70 | 3.12 | 4.6 | 4.4 | 5.0 |

NEW ORLEANS, LA.

[$\phi$=29° 58′ N.; $\lambda$=90° 04′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 30.112 | 30.461 | 29.766 | 52.7 | 59.3 | 65.9 | 50.8 | 58.4 | 79 | 29 | 50 | 52 | 90 | 78 | 0.382 | 0.419 | 3.72 | 2.33 | 4.5 | 2.2 | 5.5 |
| February | 30.041 | 30.518 | 29.675 | 52.4 | 59.0 | 66.2 | 48.0 | 57.1 | 79 | 28 | 46 | 47 | 78 | 69 | .347 | .309 | 5.61 | 2.63 | 4.8 | 3.6 | 5.3 |
| March | 29.884 | 30.183 | 29.552 | 59.9 | 66.6 | 73.3 | 57.2 | 65.2 | 85 | 41 | 54 | 56 | 83 | 70 | .456 | .473 | 4.57 | 2.12 | 5.9 | 4.8 | 5.4 |
| April | 29.987 | 30.258 | 29.606 | 64.2 | 70.3 | 76.8 | 61.2 | 69.0 | 86 | 46 | 60 | 60 | 86 | 73 | .539 | .558 | 8.08 | 4.34 | 5.7 | 5.0 | 5.3 |
| May | 29.878 | 30.248 | 29.639 | 69.4 | 74.8 | 81.7 | 66.1 | 73.9 | 89 | 54 | 64 | 64 | 84 | 72 | .626 | .628 | 4.61 | 2.25 | 6.1 | 4.8 | 5.6 |
| June | 29.911 | 30.080 | 29.606 | 78.2 | 81.7 | 87.7 | 74.1 | 80.9 | 93 | 70 | 73 | 70 | 84 | 70 | .803 | .744 | 8.82 | 4.78 | 4.8 | 5.0 | 4.9 |
| July | 29.932 | 30.149 | 29.703 | 79.0 | 82.8 | 90.0 | 76.4 | 83.2 | 96 | 72 | 74 | 74 | 86 | 76 | .854 | .846 | 4.85 | 1.58 | 5.7 | 6.5 | 6.2 |
| August | 29.901 | 30.054 | 29.644 | 79.0 | 82.8 | 89.8 | 76.3 | 83.0 | 100 | 71 | 76 | 78 | 90 | 85 | .897 | .950 | 8.03 | 2.49 | 4.9 | 5.3 | 5.4 |
| September | 29.924 | 30.053 | 29.183 | 74.6 | 79.7 | 86.0 | 72.8 | 79.4 | 93 | 56 | 71 | 72 | 88 | 79 | .782 | .811 | 7.68 | 4.45 | 2.7 | 4.4 | 3.6 |
| October | 30.045 | 30.195 | 29.805 | 65.8 | 72.9 | 80.3 | 64.5 | 72.4 | 91 | 51 | 62 | 62 | 86 | 70 | .566 | .568 | 3.63 | 2.21 | 2.7 | 1.3 | 2.7 |
| November | 30.125 | 30.392 | 29.795 | 60.4 | 66.7 | 75.5 | 59.2 | 67.4 | 83 | 45 | 57 | 61 | 89 | 83 | .484 | .554 | 1.18 | .53 | 2.3 | 1.2 | 2.8 |
| December | 30.049 | 30.431 | 29.730 | 45.9 | 52.2 | 59.0 | 41.8 | 50.4 | 77 | 26 | 41 | 44 | 84 | 75 | .287 | .318 | 7.40 | 3.69 | 4.9 | 4.8 | 4.9 |
| Year | 29.982 | 30.518 | 29.183 | 65.1 | 70.7 | 77.7 | 62.4 | 70.0 | 100 | 26 | 61 | 62 | 86 | 75 | .585 | .603 | 68.18 | 4.78 | 4.6 | 4.1 | 4.8 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

NARRAGANSETT PIER, R. I.

[H—— ft.; $h_t$=9 ft.; $h_r$=3 ft.; $h_a$=— ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | | | | | 0 | 5 | 2 | 1 | 2 | 3 | 4 | 6 | 8 | 0 | 10 | 5 | 16 | 15 | 13 | 6 | 0 | 4 | 5 | 0 | 25 | 0 | 0 |
| February | | | | | 1 | 3 | 3 | 1 | 2 | 2 | 9 | 4 | 4 | 0 | 13 | 8 | 7 | 11 | 10 | 0 | 0 | 1 | 4 | 0 | 23 | 0 | 0 |
| March | | | | | 1 | 2 | 2 | 2 | 2 | 3 | 6 | 10 | 4 | 0 | 15 | 5 | 11 | 11 | 10 | 1 | 0 | 2 | 0 | 0 | 27 | 0 | 0 |
| April | | | | | 0 | 2 | 4 | 1 | 3 | 7 | 8 | 2 | 3 | 0 | 19 | 1 | 10 | 14 | 13 | 1 | 0 | 2 | 0 | 0 | 8 | 3 | 0 |
| May | | | | | 0 | 0 | 6 | 3 | 6 | 6 | 9 | 1 | 0 | 0 | 17 | 3 | 11 | 16 | 13 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 |
| June | | | | | 0 | 1 | 4 | 1 | 5 | 6 | 10 | 2 | 1 | 0 | 20 | 5 | 5 | 10 | 8 | 0 | 0 | 2 | 0 | 1 | 0 | 3 | 0 |
| July | | | | | 0 | 2 | 0 | 0 | 3 | 11 | 8 | 5 | 2 | 0 | 26 | 2 | 3 | 6 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 4 | 0 |
| August | | | | | 0 | 2 | 9 | 2 | 1 | 2 | 10 | 3 | 2 | 0 | 21 | 3 | 7 | 7 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| September | | | | | 0 | 3 | 5 | 4 | 4 | 5 | 4 | 3 | 2 | 0 | 14 | 6 | 10 | 10 | 9 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 |
| October | | | | | 0 | 1 | 2 | 0 | 2 | 1 | 6 | 12 | 7 | 0 | 20 | 6 | 5 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 |
| November | | | | | 1 | 5 | 2 | 0 | 2 | 4 | 9 | 3 | 5 | 0 | 13 | 6 | 11 | 10 | 9 | 0 | 0 | 1 | 0 | 0 | 20 | 0 | 0 |
| December | | | | | 3 | 3 | 2 | 0 | 1 | 0 | 4 | 16 | 5 | 0 | 21 | 4 | 6 | 7 | 6 | 3 | 0 | 0 | 7 | 0 | 28 | 0 | 0 |
| Year | | | | | 6 | 29 | 41 | 15 | 33 | 50 | 87 | 67 | 43 | 0 | 209 | 54 | 102 | 124 | 107 | 11 | 0 | 22 | 16 | 1 | 140 | 15 | 0 |

NASHVILLE, TENN.

[H=546 ft.; $h_t$=168 ft.; $h_r$=161 ft.; $h_a$=191 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 7.2 | SE. | 36 | SW. | 0 | 8 | 10 | 6 | 11 | 6 | 7 | 7 | 7 | 0 | 3 | 6 | 22 | 13 | 11 | 3 | 0 | 2 | 4 | 0 | 15 | 1 | 0 |
| February | 8.8 | SW. | 36 | S. | 0 | 1 | 5 | 6 | 12 | 5 | 13 | 8 | 3 | 3 | 7 | 6 | 15 | 11 | 10 | 1 | 1 | 0 | 0 | 0 | 10 | 5 | 0 |
| March | 8.1 | NW. | 40 | S. | 1 | 11 | 7 | 6 | 6 | 4 | 4 | 11 | 13 | 0 | 8 | 12 | 11 | 11 | 11 | 0 | 2 | 0 | 0 | 0 | 2 | 5 | 0 |
| April | 13.2 | S. | 54 | S. | 6 | 5 | 8 | 7 | 9 | 13 | 5 | 8 | 5 | 0 | 11 | 9 | 10 | 12 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| May | 10.2 | NW. | 46 | W. | 2 | 3 | 10 | 6 | 7 | 10 | 10 | 5 | 11 | 0 | 8 | 12 | 11 | 11 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| June | 6.9 | SW. | 48 | S. | 1 | 5 | 10 | 6 | 4 | 10 | 10 | 9 | 5 | 1 | 5 | 18 | 7 | 12 | 10 | 0 | 0 | 0 | 0 | 7 | 0 | 15 | 0 |
| July | 7.6 | W. | 48 | NW. | 1 | 7 | 10 | 5 | 4 | 13 | 6 | 13 | 4 | 0 | 9 | 14 | 8 | 9 | 8 | 0 | 0 | 0 | 0 | 8 | 0 | 8 | 0 |
| August | 6.5 | NE. | 42 | SE. | 1 | 14 | 20 | 7 | 6 | 2 | 6 | 3 | 3 | 1 | 19 | 11 | 1 | 4 | 4 | 0 | 0 | 1 | 0 | 16 | 0 | 6 | 0 |
| September | 9.1 | NE. | 60 | SE. | 1 | 13 | 14 | 2 | 10 | 8 | 3 | 1 | 7 | 2 | 14 | 11 | 5 | 8 | 6 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 0 |
| October | 9.2 | W. | 40 | N. | 2 | 7 | 7 | 3 | 6 | 6 | 10 | 16 | 7 | 0 | 23 | 3 | 5 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 |
| November | 10.4 | S. | 46 | W. | 3 | 4 | 8 | 8 | 11 | 16 | 3 | 4 | 5 | 1 | 12 | 9 | 9 | 5 | 4 | 0 | 0 | 1 | 0 | 0 | 2 | 2 | 0 |
| December | 10.4 | W. | 42 | S. | 2 | 5 | 6 | 4 | 11 | 4 | 9 | 12 | 11 | 0 | 8 | 8 | 15 | 11 | 10 | 3 | 0 | 2 | 7 | 0 | 24 | 1 | 0 |
| Year | 9.0 | NE. | 60 | SE. | 20 | 83 | 115 | 66 | 97 | 97 | 86 | 97 | 81 | 8 | 127 | 119 | 119 | 111 | 98 | 7 | 3 | 7 | 11 | 32 | 55 | 60 | 0 |

NEW HAVEN, CONN.

[H=106 ft.; $h_t$=116 ft.; $h_r$=111 ft.; $h_a$=155 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 10.3 | NE. | 37 | NW. | 0 | 6 | 16 | 0 | 0 | 12 | 7 | 6 | 15 | 0 | 10 | 6 | 15 | 16 | 12 | 6 | 0 | 3 | 10 | 0 | 23 | 0 | 0 |
| February | 9.9 | NE. | 44 | NW. | 3 | 5 | 12 | 4 | 2 | 4 | 11 | 12 | 6 | 0 | 6 | 14 | 8 | 12 | 11 | 2 | 0 | 1 | 3 | 0 | 21 | 0 | 0 |
| March | 10.7 | NW. | 44 | E. | 2 | 6 | 7 | 3 | 2 | 2 | 6 | 12 | 24 | 0 | 13 | 6 | 12 | 13 | 7 | 5 | 0 | 2 | 1 | 0 | 20 | 0 | 0 |
| April | 11.1 | S. | 48 | W. | 2 | 8 | 15 | 1 | 6 | 12 | 5 | 6 | 7 | 0 | 9 | 11 | 10 | 14 | 14 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 0 |
| May | 9.8 | S. | 38 | NE. | 0 | 4 | 8 | 8 | 11 | 7 | 5 | 5 | 14 | 0 | 11 | 11 | 9 | 18 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| June | 7.8 | S. | 26 | NW. | 0 | 7 | 9 | 2 | 9 | 5 | 15 | 9 | 4 | 0 | 11 | 13 | 6 | 11 | 9 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 |
| July | 8.6 | S. | 37 | W. | 0 | 3 | 8 | 0 | 6 | 16 | 10 | 8 | 11 | 0 | 16 | 13 | 2 | 5 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 4 | 0 |
| August | 8.6 | N. | 27 | NE. | 0 | 14 | 13 | 3 | 5 | 5 | 9 | 6 | 7 | 0 | 12 | 12 | 7 | 8 | 6 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| September | 8.9 | N. | 34 | NW. | 0 | 12 | 6 | 4 | 8 | 9 | 8 | 4 | 9 | 0 | 11 | 11 | 8 | 10 | 8 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 |
| October | 8.6 | W. | 30 | NW. | 0 | 13 | 1 | 2 | 0 | 4 | 16 | 13 | 13 | 0 | 14 | 8 | 9 | 9 | 5 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 |
| November | 10.5 | N. | 48 | NE. | 1 | 16 | 6 | 1 | 3 | 13 | 9 | 5 | 7 | 0 | 8 | 11 | 11 | 6 | 6 | 1 | 0 | 0 | 0 | 0 | 12 | 1 | 0 |
| December | 10.6 | W. | 47 | N. | 2 | 12 | 4 | 2 | 0 | 0 | 9 | 19 | 16 | 0 | 15 | 9 | 7 | 5 | 5 | 3 | 0 | 0 | 10 | 0 | 26 | 0 | 0 |
| Year | 9.6 | NW. | 48 | NE. | 10 | 106 | 105 | 30 | 52 | 89 | 110 | 105 | 133 | 0 | 136 | 125 | 104 | 127 | 99 | 18 | 0 | 8 | 24 | 8 | 106 | 20 | 1 |

NEW ORLEANS, LA.

[H=51 ft.; $h_t$=90 ft.; $h_r$=78 ft.; $h_a$=121 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 8.3 | N. | 37 | NW. | 0 | 10 | 10 | 10 | 12 | 3 | 2 | 5 | 10 | 0 | 8 | 14 | 9 | 7 | 7 | 0 | 0 | 8 | 0 | 0 | 1 | 2 | 0 |
| February | 11.1 | SE. | 45 | SE. | 1 | 5 | 3 | 7 | 18 | 6 | 5 | 5 | 7 | 0 | 10 | 9 | 9 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 0 |
| March | 10.8 | SE. | 37 | SE. | 0 | 12 | 4 | 5 | 16 | 13 | 1 | 9 | 2 | 0 | 11 | 11 | 9 | 6 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 |
| April | 10.8 | SE. | 37 | SE. | 0 | 9 | 8 | 5 | 22 | 8 | 2 | 4 | 2 | 0 | 9 | 10 | 11 | 9 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 8 | 0 |
| May | 9.2 | SE. | 30 | N. | 0 | 13 | 7 | 4 | 30 | 3 | 0 | 3 | 2 | 0 | 9 | 11 | 11 | 13 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 |
| June | 7.0 | SE. | 28 | NW. | 0 | 3 | 8 | 9 | 8 | 8 | 6 | 8 | 10 | 0 | 13 | 9 | 8 | 14 | 12 | 0 | 0 | 0 | 0 | 10 | 0 | 11 | 0 |
| July | 7.2 | W. | 30 | N. | 0 | 3 | 4 | 7 | 7 | 10 | 14 | 16 | 1 | 0 | 4 | 15 | 12 | 14 | 12 | 0 | 0 | 0 | 0 | 16 | 0 | 14 | 0 |
| August | 7.4 | E. | 36 | NE. | 0 | 4 | 13 | 11 | 6 | 10 | 7 | 10 | 1 | 0 | 9 | 14 | 8 | 13 | 12 | 0 | 1 | 0 | 0 | 15 | 0 | 8 | 0 |
| September | 7.9 | N. | 66 | SE. | 1 | 9 | 14 | 5 | 5 | 13 | 3 | 6 | 4 | 1 | 14 | 14 | 2 | 9 | 9 | 0 | 1 | 0 | 0 | 11 | 0 | 10 | 0 |
| October | 7.2 | E. | 27 | N. | 0 | 11 | 8 | 22 | 2 | 6 | 1 | 6 | 6 | 0 | 19 | 10 | 2 | 5 | 4 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 0 |
| November | 7.5 | E. | 28 | SE. | 0 | 13 | 9 | 19 | 9 | 3 | 2 | 2 | 3 | 0 | 21 | 6 | 3 | 6 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 1 | 0 |
| December | 9.9 | N. | 27 | NW. | 0 | 18 | 12 | 6 | 7 | 5 | 2 | 7 | 5 | 0 | 13 | 4 | 14 | 15 | 13 | 0 | 0 | 1 | 0 | 0 | 4 | 3 | 0 |
| Year | 8.7 | SE. | 66 | SE. | 2 | 110 | 100 | 110 | 142 | 88 | 45 | 81 | 53 | 1 | 140 | 127 | 98 | 117 | 102 | 0 | 3 | 15 | 0 | 53 | 7 | 77 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

NEW YORK, N. Y.

[$\phi$=40° 43′ N.; $\lambda$=74° 0′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. | |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | | |
| January | 29.782 | 30.294 | 28.815 | 31.2 | 34.2 | 39.7 | 26.6 | 33.2 | 57 | 7 | 26 | 26 | 79 | 72 | 0.150 | 0.148 | 3.33 | 1.23 | 7.3 | 5.6 | 6.7 | |
| February | 29.601 | 30.056 | 28.909 | 34.6 | 38.1 | 43.7 | 30.9 | 37.3 | 58 | 5 | 29 | 29 | 78 | 70 | .169 | .170 | 4.31 | 1.56 | 6.2 | 5.0 | 6.8 | |
| March | 29.485 | 30.091 | 28.713 | 35.1 | 39.6 | 44.6 | 32.0 | 38.3 | 66 | 21 | 25 | 28 | 67 | 63 | .143 | .154 | 3.19 | 1.66 | 4.3 | 4.6 | 5.2 | |
| April | 29.717 | 30.282 | 29.356 | 45.7 | 50.5 | 57.0 | 42.0 | 49.5 | 80 | 24 | 38 | 40 | 74 | 70 | .236 | .261 | 5.93 | 2.80 | 6.3 | 5.0 | 5.9 | |
| May | 29.593 | 29.934 | 29.291 | 56.2 | 61.2 | 68.0 | 52.8 | 60.4 | 83 | 40 | 48 | 49 | 75 | 67 | .339 | .354 | 1.72 | 1.22 | 6.1 | 5.6 | 6.0 | |
| June | 29.639 | 29.905 | 29.364 | 67.4 | 71.4 | 78.0 | 63.0 | 70.5 | 92 | 53 | 58 | 59 | 73 | 67 | .498 | .510 | 3.17 | .70 | 5.4 | 5.3 | 6.0 | |
| July | 29.602 | 29.914 | 29.141 | 69.7 | 73.9 | 81.4 | 65.5 | 73.4 | 92 | 58 | 59 | 59 | 70 | 62 | .516 | .516 | 1.98 | 1.56 | 3.7 | 3.4 | 4.2 | |
| August | 29.682 | 30.034 | 29.166 | 68.0 | 72.5 | 78.7 | 64.5 | 71.6 | 93 | 58 | 59 | 58 | 73 | 63 | .500 | .499 | 7.94 | 5.05 | 4.4 | 4.3 | 4.8 | |
| September | 29.767 | 30.140 | 29.476 | 62.6 | 66.2 | 72.2 | 59.0 | 65.6 | 79 | 48 | 55 | 56 | 78 | 71 | .453 | .458 | 2.66 | .83 | 5.7 | 3.6 | 5.3 | |
| October | 29.713 | 30.227 | 29.286 | 48.8 | 54.8 | 59.8 | 46.7 | 53.2 | 75 | 35 | 40 | 41 | 73 | 62 | .264 | .272 | .74 | .31 | 4.1 | 4.7 | 4.3 | |
| November | 29.816 | 30.364 | 29.129 | 45.8 | 48.3 | 54.1 | 41.3 | 47.7 | 74 | 30 | 39 | 39 | 76 | 70 | .248 | .249 | 1.58 | 1.00 | 5.3 | 3.7 | 5.1 | |
| December | 29.503 | 30.128 | 28.616 | 28.7 | 32.1 | 36.8 | 26.1 | 31.4 | 54 | 6 | 21 | 24 | 71 | 68 | .116 | .132 | 5.00 | 2.93 | 4.9 | 3.6 | 4.8 | |
| Year | 29.663 | 30.364 | 28.616 | 49.5 | 53.6 | 59.5 | 45.9 | 52.7 | 93 | 5 | 41 | 42 | 74 | 67 | .303 | .310 | 41.55 | 5.05 | 5.3 | 4.5 | 5.4 | |

NORFOLK, VA.

[$\phi$=36° 51′ N.; $\lambda$=76° 17′ W.]

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 30.064 | 30.468 | 29.140 | 41.1 | 46.4 | 54.1 | 38.1 | 46.1 | 74 | 22 | 36 | 40 | 84 | 78 | 0.232 | 0.265 | 1.49 | 0.52 | 5.5 | 5.2 | 5.7 | |
| February | 29.926 | 30.371 | 29.318 | 45.0 | 51.9 | 59.1 | 41.5 | 50.3 | 78 | 22 | 38 | 40 | 75 | 65 | .249 | .267 | 2.99 | .67 | 4.7 | 3.8 | 5.1 | |
| March | 29.810 | 30.353 | 28.964 | 44.0 | 49.3 | 56.2 | 40.0 | 48.1 | 75 | 32 | 35 | 38 | 71 | 65 | .216 | .233 | 1.35 | .35 | 4.5 | 3.9 | 4.8 | |
| April | 29.995 | 30.543 | 29.703 | 55.7 | 59.2 | 67.9 | 50.1 | 59.0 | 86 | 36 | 47 | 49 | 73 | 72 | .338 | .370 | 3.11 | 1.21 | 4.2 | 3.9 | 4.7 | |
| May | 29.860 | 30.174 | 29.550 | 63.2 | 66.2 | 74.8 | 57.1 | 66.0 | 89 | 46 | 55 | 57 | 76 | 74 | .448 | .469 | 4.20 | 1.35 | 4.4 | 4.3 | 4.5 | |
| June | 29.914 | 30.210 | 29.559 | 73.8 | 74.5 | 83.7 | 67.8 | 75.8 | 92 | 59 | 67 | 67 | 81 | 79 | .677 | .676 | 6.00 | 1.46 | 4.9 | 5.3 | 5.5 | |
| July | 29.888 | 30.163 | 29.546 | 73.3 | 75.4 | 84.4 | 68.3 | 76.4 | 94 | 62 | 65 | 66 | 76 | 73 | .634 | .642 | 4.41 | 1.86 | 4.1 | 4.3 | 4.3 | |
| August | 29.929 | 30.192 | 29.460 | 72.5 | 74.1 | 81.5 | 67.7 | 74.6 | 91 | 60 | 66 | 66 | 80 | 77 | .641 | .649 | 5.81 | 2.33 | 4.1 | 4.1 | 4.4 | |
| September | 30.005 | 30.261 | 29.799 | 67.5 | 68.7 | 76.0 | 63.4 | 69.7 | 88 | 52 | 61 | 60 | 79 | 75 | .546 | .525 | .56 | .22 | 5.4 | 3.1 | 6.0 | |
| October | 30.031 | 30.437 | 29.577 | 54.4 | 58.8 | 66.8 | 50.1 | 58.4 | 79 | 40 | 45 | 46 | 76 | 63 | .313 | .326 | 1.43 | .55 | 2.3 | 1.8 | 2.5 | |
| November | 30.123 | 30.514 | 29.575 | 50.8 | 54.4 | 62.9 | 47.2 | 55.0 | 76 | 31 | 43 | 43 | 75 | 67 | .296 | .292 | .52 | .34 | 3.0 | 2.4 | 3.7 | |
| December | 29.911 | 30.355 | 29.157 | 34.7 | 39.7 | 45.3 | 32.2 | 38.8 | 64 | 13 | 27 | 27 | 77 | 69 | .149 | .162 | 1.91 | 1.46 | 3.6 | 2.2 | 3.9 | |
| Year | 29.955 | 30.543 | 28.964 | 56.3 | 59.9 | 67.7 | 52.0 | 59.8 | 94 | 13 | 49 | 50 | 76 | 71 | .395 | .406 | 33.78 | 2.33 | 4.2 | 3.7 | 4.6 | |

NORTHFIELD, VT.

[$\phi$=44° 10′ N.; $\lambda$=72° 41′ W.]

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.144 | 29.777 | 28.344 | 16.4 | 19.4 | 29.4 | 7.2 | 18.3 | 50 | −26 | 14 | 16 | 88 | 87 | 0.101 | 0.103 | 3.55 | 0.92 | 7.9 | 6.7 | 7.8 | |
| February | 28.952 | 29.577 | 27.996 | 14.1 | 21.2 | 30.0 | 8.4 | 19.2 | 52 | −17 | 11 | 16 | 86 | 78 | .080 | .095 | 4.85 | 1.26 | 6.9 | 5.2 | 6.6 | |
| March | 28.830 | 29.343 | 28.164 | 20.8 | 27.7 | 33.7 | 15.2 | 24.4 | 47 | − 6 | 16 | 21 | 81 | 76 | .093 | .114 | 1.85 | .89 | 5.9 | 4.1 | 6.1 | |
| April | 29.079 | 29.557 | 28.685 | 35.5 | 39.3 | 48.4 | 28.6 | 38.5 | 77 | 13 | 29 | 29 | 76 | 66 | .165 | .162 | 2.43 | .88 | 7.4 | 5.1 | 7.0 | |
| May | 28.991 | 29.324 | 28.604 | 49.4 | 52.7 | 60.6 | 40.9 | 50.8 | 77 | 31 | 39 | 43 | 71 | 71 | .250 | .284 | 3.54 | .77 | 7.1 | 7.0 | 7.3 | |
| June | 29.029 | 29.358 | 28.820 | 62.1 | 63.4 | 73.8 | 48.8 | 61.3 | 88 | 33 | 50 | 52 | 66 | 70 | .372 | .413 | 2.94 | 1.25 | 5.5 | 4.5 | 5.1 | |
| July | 28.973 | 29.356 | 28.502 | 63.6 | 64.4 | 74.9 | 50.7 | 62.8 | 86 | 39 | 54 | 56 | 72 | 75 | .428 | .461 | 2.53 | .61 | 5.7 | 4.1 | 5.7 | |
| August | 29.101 | 29.482 | 28.580 | 58.9 | 62.3 | 74.1 | 48.8 | 61.4 | 89 | 31 | 53 | 55 | 81 | 78 | .406 | .436 | 2.53 | .77 | 5.0 | 4.4 | 5.6 | |
| September | 29.178 | 29.601 | 28.760 | 52.1 | 55.0 | 66.5 | 42.8 | 54.6 | 80 | 29 | 48 | 50 | 86 | 83 | .344 | .364 | 3.05 | 1.45 | 6.1 | 5.1 | 6.1 | |
| October | 29.062 | 29.544 | 28.658 | 39.5 | 43.1 | 52.8 | 33.4 | 43.1 | 80 | 20 | 35 | 37 | 84 | 79 | .213 | .228 | 1.11 | .49 | 6.3 | 4.7 | 6.7 | |
| November | 29.200 | 29.755 | 28.615 | 32.4 | 36.6 | 45.6 | 26.8 | 36.2 | 70 | 7 | 29 | 32 | 86 | 84 | .166 | .189 | 2.02 | .88 | 6.8 | 6.2 | 7.4 | |
| December | 28.900 | 29.583 | 28.382 | 17.2 | 18.9 | 26.0 | 11.6 | 18.8 | 43 | −16 | 15 | 16 | 90 | 89 | .087 | .094 | 1.58 | 1.11 | 8.2 | 6.3 | 8.2 | |
| Year | 29.037 | 29.777 | 27.996 | 38.5 | 42.0 | 51.3 | 30.3 | 40.8 | 89 | −26 | 33 | 35 | 81 | 78 | .225 | .245 | 31.98 | 1.45 | 6.6 | 5.3 | 6.6 | |

NORTH HEAD, WASH.

[$\phi$=46° 16′ N.; $\lambda$=124° 4′ W.]

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.531 | 30.083 | 28.814 | 37.4 | 39.1 | 42.4 | 34.1 | 38.2 | 52 | 20 | 35 | 36 | 90 | 88 | 0.209 | 0.218 | 8.43 | 2.63 | 8.0 | 8.7 | 9.3 | |
| February | 29.621 | 29.984 | 29.186 | 42.2 | 43.4 | 46.1 | 39.0 | 42.6 | 51 | 33 | 39 | 40 | 90 | 88 | .244 | .249 | 10.14 | .98 | 8.2 | 9.1 | 9.2 | |
| March | 29.785 | 30.197 | 29.201 | 43.2 | 45.9 | 47.5 | 40.7 | 44.1 | 59 | 35 | 40 | 41 | 90 | 84 | .251 | .261 | 3.50 | .60 | 7.4 | 6.3 | 6.4 | |
| April | 30.006 | 30.285 | 29.674 | 45.0 | 47.3 | 49.9 | 43.2 | 46.6 | 70 | 39 | 41 | 42 | 85 | 84 | .254 | .272 | 1.51 | .59 | 7.6 | 7.0 | 6.3 | |
| May | 29.863 | 30.122 | 29.391 | 46.8 | 49.6 | 51.5 | 45.1 | 48.3 | 71 | 42 | 44 | 44 | 89 | 83 | .285 | .295 | 2.45 | .53 | 8.1 | 6.4 | 6.3 | |
| June | 29.874 | 30.100 | 29.470 | 51.5 | 54.5 | 55.8 | 50.4 | 53.1 | 62 | 47 | 48 | 50 | 90 | 84 | .340 | .354 | 1.33 | .34 | 8.3 | 6.0 | 5.8 | |
| July | 29.866 | 30.088 | 29.574 | 54.5 | 57.3 | 58.5 | 53.5 | 56.0 | 64 | 51 | 52 | 54 | 94 | 90 | .393 | .423 | 1.61 | .82 | 8.5 | 5.7 | 5.6 | |
| August | 29.854 | 30.039 | 29.589 | 54.5 | 58.0 | 59.8 | 53.3 | 56.6 | 84 | 50 | 52 | 54 | 93 | 87 | .391 | .420 | .35 | .12 | 6.1 | 4.8 | 5.3 | |
| September | 29.850 | 30.164 | 29.461 | 52.6 | 55.4 | 59.0 | 51.5 | 55.2 | 80 | 47 | 51 | 53 | 96 | 92 | .378 | .399 | 1.27 | .47 | 5.0 | 5.7 | 6.1 | |
| October | 29.820 | 30.141 | 29.328 | 51.1 | 52.9 | 55.5 | 49.1 | 52.3 | 69 | 43 | 50 | 50 | 95 | 91 | .358 | .365 | 5.14 | .93 | 6.7 | 7.3 | 7.2 | |
| November | 29.714 | 30.142 | 29.124 | 45.4 | 47.1 | 50.2 | 42.9 | 46.6 | 55 | 33 | 44 | 45 | 94 | 92 | .293 | .300 | 13.97 | 1.80 | 7.7 | 8.5 | 8.4 | |
| December | 29.820 | 30.304 | 29.872 | 37.3 | 40.7 | 44.8 | 34.1 | 39.4 | 56 | 26 | 35 | 38 | 92 | 90 | .208 | .229 | 5.24 | 2.23 | 5.6 | 5.8 | 6.1 | |
| Year | 29.800 | 30.304 | 28.844 | 46.8 | 49.3 | 51.8 | 44.7 | 48.2 | 84 | 20 | 44 | 46 | 92 | 88 | .300 | .315 | 54.94 | 2.63 | 7.3 | 6.8 | 6.8 | |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

NEW YORK, N. Y.

[H=314 ft.; $h_t$=108 ft.; $h_r$=305 ft.; $h_a$=350 ft.]

| Month. | Wind. | | | | | | | | | | | | | | Number of days. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | By self-register. | | | | | Number of winds, 8 a. m. and 8 p. m. | | | | | | | | | | | | Precipitation. | | | | | | maximum temp. | | Electricity. | |
| | Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Clear. | Partly cloudy. | Cloudy. | 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | 32° or below. | 90° or above. | Minimum temperature 32° or below. | Thunderstorms. | Auroras. |
| | *Miles* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | |
| January | 13.8 | NW. | 57 | NW. | 4 | 1 | 10 | 1 | 3 | 6 | 11 | 13 | 17 | 0 | 6 | 10 | 15 | 11 | 7 | 5 | 0 | 6 | 7 | 0 | 22 | 0 | 0 |
| February | 16.4 | W. | 73 | W. | 10 | 1 | 10 | 5 | 3 | 4 | 7 | 18 | 8 | 0 | 3 | 11 | 14 | 12 | 10 | 2 | 0 | 3 | 2 | 0 | 14 | 0 | 0 |
| March | 16.6 | W. | 60 | W. | 8 | 2 | 3 | 6 | 5 | 2 | 2 | 18 | 24 | 0 | 12 | 10 | 9 | 11 | 7 | 5 | 0 | 1 | 1 | 0 | 16 | 1 | 0 |
| April | 14.5 | NW. | 83 | W. | 5 | 2 | 11 | 7 | 7 | 8 | 1 | 10 | 14 | 0 | 8 | 8 | 14 | 15 | 13 | 1 | 0 | 1 | 0 | 0 | 2 | 4 | 0 |
| May | 12.3 | NE. | 48 | NE. | 5 | 1 | 9 | 11 | 6 | 4 | 9 | 7 | 15 | 0 | 7 | 11 | 13 | 11 | 6 | 0 | 0 | 2 | 0 | 0 | 0 | 4 | 0 |
| June | 9.7 | SW. | 43 | W. | 1 | 4 | 11 | 7 | 2 | 9 | 12 | 8 | 7 | 0 | 7 | 12 | 11 | 12 | 9 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 |
| July | 10.6 | S. | 46 | NW. | 3 | 3 | 5 | 0 | 8 | 13 | 11 | 9 | 13 | 0 | 13 | 13 | 5 | 5 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 |
| August | 10.2 | NW. | 40 | NE. | 1 | 3 | 7 | 13 | 2 | 7 | 8 | 6 | 16 | 0 | 13 | 10 | 8 | 9 | 7 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| September | 10.2 | NW. | 45 | NW. | 1 | 3 | 9 | 9 | 8 | 9 | 8 | 3 | 16 | 0 | 10 | 9 | 11 | 7 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| October | 12.6 | W. | 46 | NW. | 3 | 3 | 3 | 2 | 4 | 6 | 7 | 21 | 16 | 0 | 15 | 8 | 8 | 8 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| November | 12.8 | NW. | 48 | W. | 4 | 2 | 10 | 1 | 3 | 7 | 10 | 13 | 13 | 1 | 11 | 11 | 8 | 6 | 5 | 2 | 0 | 0 | 0 | 0 | 5 | 0 | 0 |
| December | 16.1 | W. | 58 | NE. | 4 | 0 | 5 | 2 | 0 | 1 | 4 | 32 | 18 | 0 | 14 | 8 | 9 | 6 | 5 | 4 | 0 | 0 | 13 | 0 | 22 | 0 | 0 |
| Year | 13.0 | NW. | 83 | W. | 49 | 25 | 93 | 64 | 51 | 76 | 85 | 158 | 177 | 1 | 119 | 121 | 125 | 113 | 83 | 19 | 0 | 15 | 23 | 7 | 81 | 19 | 0 |

NORFOLK, VA.

[H=91 ft.; $h_t$=102 ft.; $h_r$=96 ft.; $h_a$=111 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 9.7 | N. | 34 | NW. | 0 | 14 | 3 | 2 | 7 | 8 | 9 | 5 | 13 | 1 | 11 | 8 | 12 | 10 | 8 | 1 | 0 | 6 | 1 | 0 | 10 | 0 | 0 |
| February | 12.6 | S. | 53 | SW. | 2 | 5 | 4 | 1 | 3 | 17 | 11 | 9 | 6 | 0 | 11 | 8 | 9 | 10 | 9 | 2 | 0 | 0 | 0 | 0 | 3 | 1 | 0 |
| March | 10.9 | S. | 42 | W. | 1 | 11 | 6 | 3 | 9 | 10 | 6 | 8 | 8 | 1 | 10 | 12 | 9 | 8 | 7 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 |
| April | 11.1 | S. | 36 | SE. | 0 | 6 | 7 | 4 | 13 | 14 | 6 | 5 | 4 | 1 | 15 | 3 | 12 | 12 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| May | 10.0 | S. | 56 | SW. | 1 | 11 | 9 | 3 | 4 | 19 | 10 | 2 | 4 | 0 | 16 | 5 | 10 | 11 | 10 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 |
| June | 8.6 | S. | 48 | NW. | 1 | 3 | 4 | 4 | 14 | 14 | 18 | 2 | 1 | 0 | 8 | 13 | 9 | 19 | 12 | 0 | 1 | 0 | 0 | 6 | 0 | 16 | 0 |
| July | 8.4 | S. | 41 | SW. | 1 | 7 | 5 | 5 | 12 | 11 | 13 | 6 | 3 | 0 | 16 | 9 | 6 | 11 | 7 | 0 | 0 | 0 | 0 | 6 | 0 | 5 | 0 |
| August | 7.5 | NE. | 26 | N. | 0 | 9 | 17 | 5 | 13 | 10 | 3 | 3 | 2 | 0 | 14 | 10 | 7 | 10 | 10 | 0 | 0 | 0 | 0 | 3 | 0 | 5 | 0 |
| September | 8.8 | NE. | 25 | NE. | 0 | 16 | 18 | 6 | 8 | 4 | 4 | 2 | 2 | 0 | 7 | 9 | 14 | 7 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| October | 8.3 | NW. | 28 | SW. | 0 | 11 | 11 | 6 | 1 | 11 | 9 | 3 | 10 | 0 | 23 | 1 | 7 | 6 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| November | 10.2 | N. | 34 | NW. | 0 | 12 | 9 | 1 | 5 | 13 | 5 | 5 | 9 | 1 | 16 | 6 | 8 | 4 | 4 | 0 | 0 | 3 | 0 | 0 | 1 | 2 | 0 |
| December | 8.9 | NW. | 44 | NW. | 1 | 15 | 5 | 2 | 5 | 3 | 9 | 10 | 12 | 1 | 16 | 8 | 7 | 4 | 2 | 1 | 0 | 0 | 2 | 0 | 16 | 0 | 0 |
| Year | 9.6 | S. | 56 | SW. | 7 | 120 | 98 | 42 | 94 | 134 | 103 | 60 | 74 | 5 | 163 | 92 | 110 | 112 | 87 | 4 | 1 | 14 | 3 | 15 | 31 | 38 | 0 |

NORTHFIELD, VT.

[H=876 ft.; $h_t$=16 ft.; $h_r$=3 ft.; $h_a$=70 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 10.3 | S. | 41 | NW. | 1 | 18 | 2 | 0 | 7 | 19 | 5 | 1 | 10 | 0 | 1 | 13 | 17 | 17 | 10 | 12 | 0 | 1 | 18 | 0 | 27 | 1 | 0 |
| February | 9.0 | N. | 36 | NW. | 0 | 25 | 3 | 1 | 3 | 13 | 4 | 1 | 6 | 0 | 8 | 6 | 14 | 14 | 12 | 10 | 0 | 0 | 15 | 0 | 28 | 0 | 0 |
| March | 8.2 | NW. | 31 | S. | 0 | 16 | 3 | 1 | 5 | 10 | 11 | 1 | 15 | 0 | 8 | 10 | 13 | 12 | 8 | 10 | 0 | 0 | 13 | 0 | 31 | 0 | 0 |
| April | 10.6 | N. | 42 | SE. | 1 | 16 | 3 | 1 | 9 | 14 | 4 | 1 | 12 | 0 | 4 | 13 | 13 | 16 | 11 | 4 | 0 | 2 | 1 | 0 | 21 | 1 | 0 |
| May | 9.3 | S. | 37 | NW. | 0 | 13 | 2 | 1 | 5 | 21 | 6 | 3 | 11 | 0 | 3 | 11 | 17 | 18 | 14 | 6 | 0 | 0 | 0 | 0 | 3 | 1 | 0 |
| June | 7.6 | S. | 30 | SE. | 0 | 13 | 1 | 1 | 1 | 21 | 15 | 1 | 7 | 0 | 8 | 18 | 4 | 11 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| July | 8.0 | SW. | 36 | NW. | 0 | 11 | 0 | 1 | 8 | 17 | 12 | 5 | 8 | 0 | 7 | 17 | 7 | 14 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| August | 6.7 | S. | 36 | NW. | 0 | 11 | 3 | 0 | 3 | 21 | 13 | 4 | 7 | 0 | 9 | 15 | 7 | 11 | 10 | 0 | 0 | 2 | 0 | 0 | 1 | 2 | 0 |
| September | 7.6 | S. | 29 | NW. | 0 | 13 | 2 | 1 | 7 | 21 | 10 | 2 | 4 | 0 | 8 | 11 | 11 | 14 | 9 | 0 | 0 | 5 | 0 | 0 | 4 | 2 | 2 |
| October | 7.5 | NW. | 31 | NW. | 0 | 6 | 1 | 0 | 5 | 8 | 19 | 8 | 15 | 0 | 7 | 7 | 17 | 15 | 8 | 2 | 0 | 5 | 1 | 0 | 14 | 0 | 0 |
| November | 9.0 | N. | 36 | NW. | 0 | 20 | 1 | 0 | 4 | 17 | 5 | 1 | 12 | 0 | 5 | 6 | 19 | 18 | 9 | 6 | 0 | 3 | 5 | 0 | 20 | 0 | 1 |
| December | 7.0 | N. | 33 | NW. | 0 | 23 | 1 | 0 | 2 | 10 | 11 | 3 | 12 | 0 | 2 | 6 | 23 | 14 | 4 | 14 | 0 | 0 | 23 | 0 | 31 | 0 | 0 |
| Year | 8.4 | S. | 42 | SE. | 2 | 185 | 22 | 7 | 59 | 192 | 115 | 31 | 119 | 0 | 70 | 133 | 162 | 174 | 114 | 58 | 0 | 18 | 76 | 0 | 180 | 13 | 3 |

NORTH HEAD, WASH.

[H=211 ft.; $h_t$=11 ft.; $h_r$=3 ft.; $h_a$=56 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 21.5 | E. | 84 | SE. | 10 | 0 | 1 | 31 | 7 | 7 | 2 | 7 | 7 | 0 | 1 | 2 | 28 | 24 | 23 | 8 | 3 | 1 | 7 | 0 | 11 | 0 | 0 |
| February | 22.5 | SE. | 76 | SE. | 19 | 1 | 2 | 7 | 21 | 9 | 9 | 2 | 5 | 0 | 1 | 2 | 25 | 27 | 26 | 1 | 2 | 1 | 0 | 0 | 0 | 1 | 0 |
| March | 17.9 | NW. | 68 | SE. | 12 | 7 | 0 | 6 | 9 | 8 | 6 | 6 | 20 | 0 | 7 | 10 | 14 | 19 | 17 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 14.8 | NW. | 52 | NW. | 2 | 7 | 1 | 2 | 2 | 2 | 5 | 7 | 34 | 0 | 7 | 10 | 13 | 12 | 8 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| May | 16.0 | NW. | 62 | SE. | 5 | 3 | 1 | 4 | 7 | 7 | 6 | 7 | 27 | 0 | 7 | 13 | 11 | 19 | 12 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| June | 17.2 | NW. | 64 | SE. | 3 | 4 | 1 | 1 | 8 | 3 | 3 | 6 | 34 | 0 | 12 | 5 | 13 | 10 | 8 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| July | 14.4 | NW. | 56 | SE. | 2 | 6 | 1 | 1 | 3 | 9 | 5 | 4 | 33 | 0 | 14 | 3 | 14 | 12 | 7 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| August | 15.1 | NW. | 44 | SE. | 4 | 5 | 0 | 1 | 9 | 4 | 2 | 1 | 40 | 0 | 11 | 9 | 11 | 6 | 3 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| September | 14.4 | NW. | 64 | SE. | 3 | 15 | 2 | 1 | 14 | 2 | 1 | 0 | 25 | 0 | 10 | 4 | 16 | 9 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| October | 15.8 | SE. | 64 | SE. | 8 | 7 | 1 | 6 | 28 | 5 | 2 | 3 | 12 | 0 | 6 | 7 | 18 | 18 | 16 | 0 | 1 | 5 | 0 | 0 | 0 | 1 | 0 |
| November | 23.0 | SE. | 90 | SE. | 15 | 4 | 2 | 11 | 17 | 13 | 6 | 4 | 3 | 0 | 3 | 3 | 24 | 26 | 24 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| December | 15.6 | E. | 72 | SE. | 12 | 9 | 5 | 28 | 4 | 8 | 1 | 2 | 5 | 0 | 12 | 3 | 16 | 13 | 12 | 3 | 3 | 0 | 1 | 0 | 12 | 0 | 0 |
| Year | 17.4 | NW. | 90 | SE. | 95 | 68 | 17 | 99 | 127 | 77 | 48 | 49 | 245 | 0 | 91 | 71 | 203 | 195 | 164 | 12 | 15 | 30 | 8 | 0 | 23 | 2 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

NORTH PLATTE, NEBR.

[$\phi$=41° 8′ N.; $\lambda$=100° 45′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 27.096 | 27.574 | 26.518 | 15.3 | 26.2 | 38.2 | 11.8 | 25.0 | 61 | −10 | 12 | 16 | 86 | 66 | 0.082 | 0.100 | 0.29 | 0.19 | 5.0 | 5.6 | 4.8 |
| February | 26.985 | 27.500 | 26.520 | 16.6 | 31.0 | 42.1 | 11.9 | 27.0 | 72 | −15 | 14 | 18 | 89 | 62 | .087 | .106 | 1.61 | 1.15 | 3.8 | 4.7 | 3.9 |
| March | 27.043 | 27.424 | 26.716 | 26.7 | 40.7 | 47.5 | 24.4 | 36.0 | 66 | 12 | 24 | 27 | 86 | 59 | .126 | .148 | .98 | .67 | 6.2 | 4.5 | 4.5 |
| April | 27.010 | 27.532 | 26.435 | 33.2 | 51.3 | 57.5 | 31.1 | 44.3 | 81 | 21 | 29 | 34 | 85 | 55 | .163 | .198 | .72 | .26 | 5.5 | 6.5 | 5.2 |
| May | 26.936 | 27.270 | 26.542 | 46.3 | 66.2 | 70.6 | 43.6 | 57.1 | 92 | 19 | 38 | 36 | 75 | 39 | .242 | .231 | 2.32 | 1.12 | 5.1 | 6.7 | 5.0 |
| June | 27.079 | 27.270 | 26.895 | 60.8 | 74.6 | 80.4 | 57.7 | 69.0 | 96 | 48 | 57 | 59 | 87 | 60 | .465 | .504 | 5.46 | 2.20 | 5.6 | 4.8 | 4.0 |
| July | 27.081 | 27.415 | 26.781 | 64.9 | 80.7 | 86.2 | 62.3 | 74.2 | 98 | 50 | 62 | 64 | 89 | 59 | .555 | .607 | 5.21 | 2.49 | 3.4 | 3.8 | 3.1 |
| August | 27.103 | 27.472 | 26.926 | 65.0 | 83.1 | 90.0 | 63.4 | 76.7 | 97 | 48 | 60 | 64 | 84 | 54 | .523 | .608 | 1.24 | .60 | 4.5 | 4.3 | 3.5 |
| September | 27.159 | 27.491 | 26.735 | 51.4 | 69.4 | 78.5 | 49.5 | 64.0 | 90 | 34 | 48 | 50 | 89 | 52 | .349 | .374 | .77 | .40 | 3.7 | 3.3 | 3.4 |
| October | 27.122 | 27.572 | 26.711 | 38.0 | 55.8 | 67.4 | 35.5 | 51.4 | 88 | 12 | 32 | 34 | 78 | 46 | .182 | .199 | .20 | .19 | 4.6 | 3.9 | 3.5 |
| November | 27.107 | 27.622 | 26.670 | 29.3 | 40.7 | 51.4 | 25.8 | 38.6 | 80 | 2 | 25 | 28 | 84 | 66 | .140 | .164 | 2.24 | 1.18 | 5.6 | 5.9 | 5.3 |
| December | 27.098 | 27.324 | 26.750 | 10.5 | 16.3 | 24.8 | 5.5 | 15.2 | 51 | −14 | 8 | 12 | 88 | 83 | .070 | .080 | 1.37 | .59 | 5.5 | 4.8 | 5.5 |
| Year | 27.068 | 27.622 | 26.435 | 38.2 | 53.0 | 61.2 | 35.2 | 48.2 | 97 | −15 | 34 | 37 | 85 | 58 | .249 | .277 | 22.41 | 2.49 | 4.9 | 4.9 | 4.3 |

OKLAHOMA, OKLA.

[$\phi$=35° 26′ N.; $\lambda$=97° 33′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 28.815 | 29.294 | 28.322 | 33.6 | 39.5 | 47.4 | 27.8 | 37.6 | 79 | − 2 | 28 | 29 | 81 | 69 | 0.183 | 0.189 | 0.12 | 0.05 | 6.8 | 6.0 | 7.2 |
| February | 28.654 | 29.188 | 28.125 | 34.0 | 48.1 | 57.1 | 30.2 | 43.6 | 77 | 7 | 24 | 29 | 65 | 49 | .141 | .176 | .57 | .49 | 4.8 | 3.5 | 4.9 |
| March | 28.639 | 29.113 | 28.226 | 40.4 | 52.9 | 60.6 | 37.8 | 49.2 | 83 | 25 | 33 | 34 | 76 | 54 | .193 | .208 | 2.13 | .99 | 6.1 | 5.7 | 5.8 |
| April | 28.650 | 29.205 | 28.200 | 50.1 | 64.3 | 70.3 | 46.5 | 58.4 | 90 | 31 | 40 | 40 | 71 | 45 | .274 | .275 | 2.44 | 1.54 | 5.3 | 4.1 | 4.8 |
| May | 28.569 | 28.900 | 28.203 | 59.2 | 72.3 | 78.2 | 55.4 | 66.8 | 90 | 33 | 51 | 51 | 75 | 50 | .394 | .392 | 7.40 | 3.28 | 4.6 | 4.4 | 4.2 |
| June | 28.677 | 28.854 | 28.545 | 69.7 | 80.6 | 86.7 | 66.6 | 76.6 | 98 | 57 | 64 | 64 | 82 | 58 | .603 | .603 | 2.44 | 1.42 | 5.8 | 5.1 | 4.8 |
| July | 28.668 | 28.912 | 28.408 | 75.2 | 89.3 | 94.2 | 72.4 | 83.3 | 102 | 62 | 67 | 66 | 76 | 48 | .667 | .640 | 1.35 | .92 | 3.9 | 2.7 | 3.6 |
| August | 28.714 | 28.970 | 28.464 | 74.0 | 87.7 | 94.6 | 71.5 | 83.0 | 108 | 62 | 64 | 63 | 71 | 46 | .595 | .578 | 1.42 | .68 | 4.4 | 3.7 | 4.3 |
| September | 28.765 | 29.083 | 28.270 | 63.5 | 79.5 | 88.2 | 61.6 | 74.9 | 100 | 43 | 53 | 52 | 70 | 41 | .430 | .416 | .53 | .46 | 2.7 | 1.8 | 2.6 |
| October | 28.776 | 29.137 | 28.476 | 52.4 | 65.7 | 75.2 | 49.4 | 62.3 | 90 | 36 | 44 | 45 | 75 | 52 | .301 | .310 | 1.73 | 1.41 | 3.1 | 2.2 | 3.2 |
| November | 28.778 | 29.207 | 28.424 | 49.4 | 57.9 | 66.0 | 46.2 | 56.1 | 84 | 29 | 44 | 47 | 84 | 70 | .317 | .343 | 5.29 | 3.22 | 5.2 | 4.3 | 5.4 |
| December | 28.810 | 29.091 | 28.337 | 25.9 | 33.3 | 39.5 | 22.5 | 31.0 | 67 | 6 | 22 | 27 | 86 | 76 | .126 | .150 | .34 | .12 | 4.1 | 3.2 | 4.4 |
| Year | 28.710 | 29.294 | 28.125 | 52.3 | 64.3 | 71.5 | 49.0 | 60.2 | 108 | − 2 | 44 | 46 | 76 | 55 | .352 | .357 | 25.76 | 3.28 | 4.7 | 3.9 | 4.6 |

OMAHA, NEBR.

[$\phi$=41° 16′ N.; $\lambda$=95° 56′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 28.932 | 29.373 | 28.043 | 19.7 | 24.8 | 30.9 | 14.8 | 22.8 | 57 | −13 | 16 | 17 | 83 | 73 | 0.106 | 0.113 | 1.00 | 0.63 | 6.4 | 5.9 | 7.1 |
| February | 28.727 | 29.312 | 27.991 | 24.4 | 33.4 | 40.1 | 20.8 | 30.4 | 61 | − 6 | 18 | 24 | 76 | 70 | .107 | .141 | 1.21 | .57 | 4.8 | 5.7 | 5.9 |
| March | 28.801 | 29.290 | 28.357 | 29.9 | 38.4 | 43.5 | 28.0 | 35.8 | 65 | 16 | 24 | 28 | 79 | 65 | .131 | .154 | .63 | .22 | 4.8 | 5.6 | 6.1 |
| April | 28.741 | 29.293 | 28.167 | 38.8 | 50.1 | 55.5 | 35.7 | 45.6 | 83 | 26 | 32 | 32 | 76 | 52 | .181 | .192 | 1.34 | .25 | 6.1 | 6.5 | 7.2 |
| May | 28.669 | 28.969 | 28.183 | 53.0 | 66.1 | 71.0 | 50.5 | 60.8 | 95 | 25 | 45 | 45 | 74 | 51 | .317 | .322 | 3.80 | 1.44 | 5.2 | 6.6 | 6.2 |
| June | 28.781 | 29.058 | 28.570 | 65.1 | 75.1 | 78.5 | 62.4 | 70.4 | 91 | 56 | 60 | 63 | 85 | 67 | .527 | .577 | 7.54 | 2.07 | 7.8 | 4.7 | 6.6 |
| July | 28.780 | 29.022 | 28.446 | 69.7 | 79.9 | 84.0 | 67.3 | 75.6 | 94 | 58 | 64 | 66 | 84 | 64 | .613 | .643 | 4.40 | 1.80 | 5.7 | 4.5 | 4.9 |
| August | 28.818 | 29.232 | 28.598 | 71.7 | 83.9 | 89.3 | 69.7 | 79.5 | 98 | 55 | 64 | 66 | 76 | 56 | .603 | .661 | .88 | .84 | 3.7 | 2.5 | 3.5 |
| September | 28.890 | 29.304 | 28.455 | 57.4 | 69.3 | 75.3 | 55.9 | 65.6 | 93 | 46 | 54 | 57 | 88 | 66 | .427 | .481 | 5.25 | 1.51 | 5.2 | 3.6 | 4.7 |
| October | 28.850 | 29.334 | 28.438 | 46.4 | 56.8 | 63.2 | 43.9 | 53.6 | 89 | 26 | 39 | 40 | 77 | 55 | .256 | .261 | 1.70 | 1.38 | 4.7 | 3.8 | 4.6 |
| November | 28.863 | 29.373 | 28.381 | 39.2 | 45.9 | 52.2 | 35.6 | 43.9 | 77 | 14 | 36 | 39 | 88 | 78 | .230 | .254 | 6.24 | 2.53 | 5.7 | 4.0 | 6.0 |
| December | 28.871 | 29.194 | 28.340 | 13.9 | 17.0 | 21.6 | 9.6 | 15.6 | 47 | − 9 | 12 | 13 | 90 | 83 | .085 | .085 | 2.33 | .57 | 6.1 | 5.2 | 6.0 |
| Year | 28.810 | 29.373 | 27.991 | 44.1 | 53.4 | 58.8 | 41.2 | 50.0 | 98 | −13 | 39 | 41 | 81 | 65 | .299 | .324 | 36.32 | 2.53 | 5.5 | 4.9 | 5.7 |

OSWEGO, N. Y.

[$\phi$=43° 29′ N.; $\lambda$=76° 35′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.742 | 30.340 | 29.040 | 25.0 | 28.0 | 34.4 | 18.8 | 26.6 | 56 | − 8 | 21 | 23 | 85 | 82 | 0.129 | 0.138 | 3.88 | 0.82 | 9.4 | 8.5 | 9.0 |
| February | 29.538 | 30.154 | 28.713 | 25.2 | 28.0 | 34.5 | 19.9 | 27.2 | 53 | − 7 | 22 | 23 | 86 | 81 | .125 | .126 | 3.85 | .95 | 8.9 | 7.6 | 8.8 |
| March | 29.464 | 30.046 | 28.690 | 28.0 | 32.1 | 35.6 | 24.9 | 30.2 | 52 | 14 | 24 | 28 | 83 | 82 | .128 | .150 | 2.56 | 1.46 | 7.4 | 5.9 | 6.9 |
| April | 29.641 | 30.247 | 29.218 | 39.4 | 42.1 | 49.6 | 33.6 | 41.6 | 74 | 21 | 33 | 35 | 77 | 76 | .195 | .213 | 3.26 | 1.27 | 8.0 | 4.9 | 6.6 |
| May | 29.549 | 29.906 | 29.133 | 51.0 | 52.3 | 59.9 | 43.7 | 51.8 | 76 | 32 | 44 | 43 | 78 | 72 | .298 | .285 | 3.21 | .78 | 6.6 | 7.2 | 5.9 |
| June | 29.603 | 29.899 | 29.368 | 62.9 | 63.9 | 70.7 | 55.5 | 63.1 | 85 | 45 | 53 | 53 | 72 | 70 | .421 | .418 | 2.40 | 1.49 | 5.6 | 6.5 | 4.6 |
| July | 29.549 | 29.904 | 29.222 | 65.2 | 67.4 | 73.8 | 59.4 | 66.6 | 85 | 51 | 57 | 57 | 75 | 72 | .468 | .483 | 4.39 | 2.76 | 5.7 | 4.6 | 4.7 |
| August | 29.645 | 29.987 | 29.225 | 64.5 | 69.0 | 74.5 | 58.5 | 66.5 | 88 | 44 | 56 | 58 | 73 | 68 | .460 | .478 | 2.00 | 1.73 | 5.3 | 3.9 | 3.9 |
| September | 29.718 | 30.085 | 29.401 | 57.5 | 61.2 | 68.3 | 52.0 | 60.2 | 85 | 42 | 51 | 53 | 81 | 74 | .389 | .411 | 2.56 | 1.30 | 5.7 | 3.8 | 5.2 |
| October | 29.664 | 30.156 | 29.160 | 45.7 | 48.8 | 53.7 | 41.2 | 47.4 | 79 | 30 | 38 | 40 | 76 | 71 | .243 | .255 | 2.23 | .44 | 7.5 | 5.9 | 6.7 |
| November | 29.784 | 30.305 | 29.054 | 40.4 | 43.8 | 51.1 | 35.8 | 43.4 | 75 | 22 | 34 | 36 | 78 | 74 | .205 | .219 | 2.09 | .39 | 7.0 | 6.2 | 6.8 |
| December | 29.535 | 30.159 | 29.147 | 24.6 | 27.1 | 30.8 | 21.4 | 26.1 | 45 | − 1 | 21 | 22 | 86 | 81 | .115 | .121 | 5.16 | 1.31 | 9.3 | 8.7 | 9.0 |
| Year | 29.619 | 30.340 | 28.690 | 44.1 | 47.0 | 53.1 | 38.7 | 45.9 | 88 | − 8 | 38 | 39 | 79 | 75 | .264 | .275 | 37.59 | 2.76 | 7.2 | 6.1 | 6.5 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

## NORTH PLATTE, NEBR.

[H=2,821 ft.; $h_t$=11 ft.; $h_r$=3 ft.; $h_a$=51 ft.]

| Month. | Wind. | | | | | | | | | | | | | | Number of days. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | By self-register. | | | | | Number of winds, 8 a. m. and 8 p. m. | | | | | | | | | | | | Precipitation. | | | | Maximum temp. | | Minimum temperature 32° or below. | Electricity. | |
| | Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Clear. | Partly cloudy. | Cloudy. | 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | 32° or below. | 90° or above. | | Thunderstorms. | Auroras. |
| | *Miles* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 8.2 | SE. | 58 | NW. | 2 | 9 | 4 | 3 | 11 | 10 | 6 | 8 | 9 | 2 | 13 | 11 | 7 | 5 | 2 | 4 | 0 | 1 | 12 | 0 | 31 | 0 | 0 |
| February | 9.3 | W. | 40 | NW. | 1 | 6 | 5 | 3 | 4 | 1 | 4 | 18 | 13 | 2 | 15 | 7 | 6 | 7 | 5 | 7 | 0 | 0 | 5 | 0 | 28 | 0 | 0 |
| March | 8.0 | N. | 39 | NE. | 0 | 13 | 6 | 6 | 5 | 8 | 4 | 8 | 9 | 3 | 13 | 9 | 9 | 6 | 4 | 4 | 1 | 1 | 2 | 0 | 29 | 3 | 0 |
| April | 10.1 | NW. | 48 | NW. | 3 | 14 | 0 | 8 | 8 | 5 | 6 | 6 | 12 | 1 | 10 | 12 | 8 | 6 | 4 | 3 | 0 | 0 | 0 | 0 | 20 | 1 | 0 |
| May | 10.6 | NW. | 48 | NW. | 1 | 7 | 5 | 9 | 8 | 3 | 4 | 7 | 16 | 3 | 11 | 11 | 9 | 12 | 7 | 0 | 1 | 0 | 0 | 2 | 4 | 6 | 0 |
| June | 7.2 | SE. | 34 | NE. | 0 | 6 | 9 | 12 | 12 | 4 | 5 | 4 | 5 | 3 | 17 | 7 | 6 | 12 | 12 | 0 | 0 | 0 | 0 | 4 | 0 | 14 | 0 |
| July | 7.0 | SE. | 35 | SW. | 0 | 5 | 6 | 14 | 19 | 6 | 2 | 6 | 1 | 3 | 21 | 7 | 3 | 11 | 9 | 0 | 2 | 1 | 0 | 11 | 0 | 9 | 0 |
| August | 6.5 | SE. | 32 | SE. | 0 | 7 | 2 | 19 | 22 | 6 | 0 | 2 | 2 | 2 | 16 | 13 | 2 | 7 | 5 | 0 | 0 | 0 | 0 | 16 | 0 | 12 | 0 |
| September | 6.7 | SE. | 31 | NE. | 0 | 7 | 6 | 15 | 11 | 4 | 2 | 9 | 6 | 0 | 18 | 5 | 7 | 6 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 0 |
| October | 8.5 | NW. | 36 | NW. | 0 | 10 | 4 | 12 | 14 | 2 | 1 | 12 | 7 | 0 | 18 | 7 | 6 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 12 | 0 | 0 |
| November | 6.9 | W. | 28 | N. | 0 | 7 | 5 | 6 | 9 | 5 | 6 | 10 | 11 | 1 | 13 | 6 | 11 | 6 | 3 | 3 | 0 | 0 | 6 | 0 | 20 | 0 | 0 |
| December | 7.9 | W. | 31 | NW. | 0 | 5 | 1 | 3 | 2 | 3 | 9 | 17 | 19 | 3 | 11 | 9 | 11 | 10 | 7 | 9 | 0 | 0 | 20 | 0 | 30 | 0 | 1 |
| Year | 8.1 | SE. | 58 | NW. | 7 | 96 | 53 | 110 | 125 | 57 | 49 | 107 | 110 | 23 | 176 | 104 | 85 | 90 | 61 | 31 | 4 | 4 | 45 | 33 | 174 | 49 | 1 |

## OKLAHOMA, OKLA.

[H=1,214 ft.; $h_t$=10 ft.; $h_r$=3 ft.; $h_a$=47 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 18.0 | S. | 66 | NW. | 8 | 22 | 3 | 3 | 4 | 25 | 2 | 0 | 3 | 0 | 2 | 15 | 14 | 5 | 2 | 2 | 0 | 5 | 7 | 0 | 17 | 0 | 0 |
| February | 19.3 | S. | 54 | N. | 8 | 11 | 2 | 1 | 1 | 23 | 7 | 3 | 8 | 0 | 9 | 11 | 8 | 5 | 3 | 2 | 0 | 1 | 2 | 0 | 13 | 1 | 0 |
| March | 16.2 | N. | 56 | NW. | 6 | 19 | 9 | 4 | 8 | 13 | 0 | 1 | 8 | 0 | 6 | 16 | 9 | 10 | 8 | 2 | 2 | 0 | 0 | 0 | 10 | 2 | 0 |
| April | 22.2 | S. | 70 | N. | 15 | 17 | 1 | 1 | 4 | 26 | 6 | 0 | 5 | 0 | 12 | 10 | 8 | 6 | 5 | 0 | 2 | 0 | 0 | 0 | 1 | 7 | 0 |
| May | 16.0 | S. | 50 | S. | 7 | 13 | 3 | 4 | 12 | 21 | 3 | 3 | 3 | 0 | 16 | 5 | 10 | 7 | 7 | 0 | 4 | 0 | 0 | 1 | 0 | 6 | 0 |
| June | 12.1 | S. | 50 | N. | 1 | 8 | 3 | 4 | 13 | 25 | 1 | 3 | 3 | 0 | 8 | 19 | 3 | 10 | 8 | 0 | 0 | 0 | 0 | 10 | 0 | 12 | 0 |
| July | 12.9 | S. | 38 | S. | 0 | 4 | 4 | 11 | 10 | 31 | 2 | 0 | 0 | 0 | 18 | 8 | 5 | 4 | 2 | 0 | 0 | 0 | 0 | 24 | 0 | 5 | 0 |
| August | 11.4 | S. | 40 | S. | 1 | 6 | 2 | 6 | 19 | 27 | 1 | 0 | 1 | 0 | 13 | 13 | 5 | 6 | 6 | 0 | 0 | 0 | 0 | 24 | 0 | 6 | 0 |
| September | 11.7 | S. | 44 | N. | 1 | 6 | 7 | 4 | 6 | 33 | 1 | 0 | 2 | 1 | 20 | 5 | 5 | 4 | 3 | 0 | 0 | 0 | 0 | 14 | 0 | 4 | 0 |
| October | 15.5 | S. | 52 | SW. | 6 | 11 | 1 | 5 | 2 | 35 | 3 | 2 | 3 | 0 | 19 | 6 | 6 | 4 | 3 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 |
| November | 17.0 | S. | 56 | S. | 6 | 14 | 3 | 2 | 5 | 30 | 1 | 1 | 4 | 0 | 11 | 7 | 12 | 9 | 6 | 0 | 1 | 3 | 0 | 0 | 4 | 4 | 0 |
| December | 14.9 | N. | 44 | S. | 5 | 20 | 0 | 1 | 7 | 16 | 4 | 4 | 10 | 0 | 14 | 9 | 8 | 7 | 4 | 3 | 0 | 1 | 8 | 0 | 27 | 0 | 0 |
| Year | 15.6 | S. | 70 | N. | 64 | 151 | 38 | 46 | 91 | 305 | 31 | 17 | 50 | 1 | 148 | 124 | 93 | 77 | 57 | 9 | 9 | 11 | 17 | 74 | 72 | 49 | 0 |

## OMAHA, NEBR.

[H=1,105 ft.; $h_t$=115 ft.; $h_r$=107 ft.; $h_a$=121 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 10.6 | S. | 66 | NW. | 2 | 11 | 4 | 4 | 6 | 15 | 10 | 0 | 12 | 0 | 5 | 8 | 18 | 5 | 4 | 5 | 0 | 3 | 18 | 0 | 27 | 1 | 0 |
| February | 10.4 | NW. | 39 | NW. | 0 | 11 | 2 | 3 | 5 | 12 | 5 | 4 | 13 | 1 | 8 | 8 | 12 | 5 | 5 | 4 | 0 | 0 | 5 | 0 | 22 | 2 | 0 |
| March | 10.5 | NW. | 37 | N. | 0 | 17 | 7 | 4 | 3 | 4 | 5 | 5 | 17 | 0 | 7 | 13 | 11 | 6 | 5 | 6 | 0 | 1 | 6 | 0 | 21 | 2 | 0 |
| April | 12.2 | N. | 48 | NW. | 1 | 21 | 5 | 7 | 4 | 6 | 4 | 1 | 12 | 0 | 6 | 7 | 17 | 10 | 10 | 1 | 2 | 2 | 0 | 0 | 10 | 7 | 0 |
| May | 9.2 | SE. | 38 | NW. | 0 | 9 | 3 | 7 | 18 | 9 | 4 | 3 | 9 | 0 | 3 | 17 | 11 | 10 | 8 | 0 | 1 | 0 | 0 | 1 | 1 | 4 | 0 |
| June | 7.0 | S. | 27 | NW. | 0 | 15 | 8 | 7 | 12 | 12 | 3 | 2 | 1 | 0 | 3 | 14 | 13 | 13 | 13 | 0 | 0 | 0 | 0 | 1 | 0 | 16 | 0 |
| July | 6.4 | S. | 38 | N. | 0 | 8 | 7 | 6 | 8 | 15 | 5 | 5 | 7 | 1 | 13 | 10 | 8 | 11 | 8 | 0 | 0 | 0 | 0 | 6 | 0 | 7 | 0 |
| August | 6.6 | S. | 23 | NW. | 0 | 8 | 3 | 3 | 8 | 32 | 3 | 2 | 2 | 1 | 16 | 14 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 13 | 0 | 6 | 0 |
| September | 6.2 | SE. | 35 | SW. | 0 | 13 | 8 | 8 | 12 | 10 | 0 | 1 | 7 | 1 | 12 | 8 | 10 | 11 | 10 | 0 | 1 | 2 | 0 | 1 | 0 | 9 | 0 |
| October | 8.6 | NW. | 33 | NW. | 0 | 8 | 3 | 9 | 9 | 10 | 2 | 8 | 13 | 0 | 14 | 6 | 11 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 |
| November | 9.4 | S. | 30 | NW. | 0 | 13 | 3 | 2 | 5 | 19 | 4 | 8 | 6 | 0 | 7 | 10 | 13 | 13 | 11 | 4 | 0 | 3 | 5 | 0 | 11 | 3 | 0 |
| December | 9.5 | NW. | 32 | NW. | 0 | 7 | 2 | 3 | 4 | 3 | 6 | 17 | 20 | 0 | 10 | 5 | 16 | 16 | 11 | 14 | 0 | 0 | 25 | 0 | 29 | 0 | 0 |
| Year | 8.9 | S. | 66 | NW. | 3 | 141 | 55 | 63 | 94 | 147 | 51 | 56 | 119 | 4 | 104 | 120 | 141 | 109 | 92 | 34 | 4 | 11 | 59 | 22 | 125 | 58 | 0 |

## OSWEGO, N. Y.

[H=335 ft.; $h_t$=76 ft.; $h_r$=68 ft.; $h_a$=91 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 13.4 | S. | 38 | NW. | 0 | 8 | 6 | 1 | 12 | 19 | 3 | 3 | 10 | 0 | 0 | 5 | 26 | 19 | 12 | 13 | 0 | 1 | 10 | 0 | 25 | 1 | 0 |
| February | 14.4 | S. | 42 | NW. | 1 | 1 | 6 | 4 | 11 | 17 | 2 | 3 | 12 | 0 | 1 | 3 | 24 | 16 | 11 | 8 | 0 | 0 | 13 | 0 | 27 | 0 | 0 |
| March | 13.3 | NW. | 41 | NW. | 3 | 8 | 5 | 3 | 8 | 10 | 3 | 9 | 16 | 0 | 5 | 6 | 20 | 10 | 7 | 8 | 0 | 0 | 7 | 0 | 30 | 0 | 1 |
| April | 13.5 | S. | 50 | S. | 3 | 4 | 4 | 1 | 10 | 14 | 4 | 14 | 9 | 0 | 7 | 8 | 15 | 13 | 12 | 2 | 0 | 3 | 1 | 0 | 13 | 1 | 0 |
| May | 8.8 | W. | 30 | SW. | 0 | 4 | 6 | 2 | 8 | 8 | 11 | 16 | 7 | 0 | 7 | 9 | 15 | 14 | 11 | 1 | 0 | 0 | 0 | 0 | 1 | 5 | 0 |
| June | 7.8 | W. | 27 | W. | 0 | 5 | 8 | 0 | 6 | 7 | 15 | 16 | 3 | 0 | 11 | 11 | 8 | 9 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| July | 9.1 | W. | 32 | N. | 0 | 5 | 1 | 4 | 4 | 14 | 7 | 15 | 12 | 0 | 11 | 13 | 7 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| August | 8.8 | S. | 25 | S. | 0 | 9 | 4 | 3 | 12 | 12 | 10 | 8 | 4 | 0 | 17 | 7 | 7 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| September | 9.8 | S. | 31 | NW. | 0 | 5 | 9 | 1 | 9 | 18 | 4 | 6 | 8 | 0 | 11 | 6 | 13 | 8 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |
| October | 11.0 | NW. | 32 | SW. | 0 | 3 | 5 | 0 | 6 | 15 | 11 | 2 | 20 | 0 | 6 | 7 | 18 | 13 | 11 | 1 | 3 | 0 | 0 | 0 | 1 | 2 | 2 |
| November | 13.1 | S. | 37 | NE. | 0 | 3 | 13 | 1 | 4 | 21 | 3 | 5 | 10 | 0 | 6 | 8 | 16 | 16 | 13 | 4 | 0 | 0 | 1 | 0 | 10 | 0 | 0 |
| December | 13.5 | SW. | 40 | W. | 1 | 7 | 6 | 2 | 9 | 5 | 18 | 6 | 9 | 0 | 1 | 2 | 28 | 19 | 14 | 18 | 0 | 0 | 18 | 0 | 28 | 0 | 1 |
| Year | 11.4 | S. | 50 | S. | 8 | 62 | 73 | 22 | 99 | 160 | 91 | 103 | 120 | 0 | 83 | 85 | 197 | 154 | 115 | 55 | 3 | 4 | 50 | 0 | 135 | 22 | 5 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

PALESTINE, TEX.

[$\phi$=31° 45′ N ; $\lambda$=95° 40′ W ]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | Cloudiness. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | | | | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | | | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | | | |
| January | 29.610 | 30.026 | 29.190 | 46.4 | 54.6 | 60.6 | 43.5 | 52.0 | 80 | 14 | 42 | 44 | 85 | 71 | 0.308 | 0.336 | 0.19 | 0.12 | | | 8.1 | 6.7 | 8.0 |
| February | 29.491 | 30.032 | 28.998 | 46.6 | 58.6 | 65.1 | 42.9 | 54.0 | 81 | 18 | 40 | 44 | 79 | 59 | .281 | .321 | 3.56 | 1.84 | | | 5.9 | 4.9 | 5.3 |
| March | 29.386 | 29.818 | 28.936 | 52.1 | 65.1 | 70.2 | 49.8 | 60.0 | 85 | 35 | 45 | 48 | 79 | 58 | .324 | .351 | 2.27 | 1.60 | | | 6.1 | 4.4 | 5.5 |
| April | 29.459 | 29.939 | 29.027 | 57.4 | 69.1 | 74.4 | 54.8 | 64.6 | 84 | 40 | 53 | 57 | 86 | 67 | .430 | .482 | 2.51 | 1.40 | | | 6.6 | 4.8 | 5.7 |
| May | 29.347 | 29.717 | 29.034 | 64.5 | 76.9 | 81.1 | 61.4 | 71.2 | 88 | 46 | 61 | 64 | 88 | 65 | .550 | .610 | .98 | .65 | | | 6.3 | 3.9 | 5.8 |
| June | 29.420 | 29.601 | 29.238 | 73.0 | 82.4 | 88.6 | 70.3 | 79.4 | 94 | 61 | 69 | 68 | 88 | 64 | .715 | .693 | 3.36 | 2.00 | | | 4.4 | 5.3 | 6.0 |
| July | 29.417 | 29.630 | 29.207 | 76.1 | 89.5 | 94.1 | 74.5 | 84.3 | 99 | 70 | 72 | 68 | 88 | 50 | .791 | .681 | .80 | .52 | | | 5.0 | 3.6 | 5.5 |
| August | 29.421 | 29.578 | 29.148 | 75.4 | 88.7 | 94.7 | 74.3 | 84.5 | 108 | 70 | 67 | 67 | 80 | 50 | .709 | .665 | 2.11 | .82 | | | 4.3 | 5.9 | 6.2 |
| September | 29.479 | 29.730 | 29.092 | 68.1 | 82.2 | 89.0 | 67.2 | 78.1 | 99 | 49 | 61 | 58 | 78 | 45 | .574 | .509 | 1.55 | 1.17 | | | 2.0 | 3.6 | 3.6 |
| October | 29.541 | 29.796 | 29.265 | 59.6 | 73.5 | 80.3 | 58.2 | 69.2 | 92 | 44 | 54 | 54 | 81 | 54 | .436 | .432 | 2.74 | 1.82 | | | 2.2 | 1.4 | 1.8 |
| November | 29.586 | 29.983 | 29.292 | 58.5 | 66.0 | 74.1 | 55.3 | 64.7 | 82 | 35 | 54 | 54 | 86 | 67 | .454 | .435 | 1.51 | .56 | | | 5.2 | 2.8 | 4.8 |
| December | 29.581 | 29.852 | 29.224 | 36.6 | 45.7 | 51.6 | 32.8 | 42.2 | 78 | 18 | 32 | 34 | 81 | 66 | .201 | .217 | 2.40 | 1.03 | | | 5.3 | 3.4 | 4.7 |
| Year | 29.478 | 30.032 | 28.936 | 59.5 | 71.0 | 77.0 | 57.1 | 67.0 | 108 | 14 | 54 | 55 | 83 | 60 | .481 | .478 | 23.98 | 2.00 | | | 5.1 | 4.2 | 5.2 |

PARKERSBURG W. VA.

[$\phi$=39° 16′ N.; $\lambda$=81° 36′ W.]

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.496 | 29.859 | 28.638 | 33.8 | 38.5 | 46.2 | 29.9 | 38.0 | 71 | 11 | 30 | 33 | 86 | 81 | 0.176 | 0.208 | 3.62 | 1.29 | | | 8.0 | 6.9 | 8.0 |
| February | 29.317 | 29.985 | 28.726 | 35.8 | 42.0 | 50.1 | 31.4 | 40.8 | 65 | 7 | 32 | 37 | 86 | 82 | .191 | .233 | 6.14 | 2.87 | | | 6.8 | 5.5 | 6.9 |
| March | 29.275 | 29.734 | 28.721 | 36.5 | 43.0 | 49.9 | 33.3 | 41.6 | 64 | 22 | 32 | 35 | 82 | 73 | .185 | .209 | 2.27 | .53 | | | 6.7 | 6.3 | 6.3 |
| April | 29.382 | 29.897 | 28.875 | 48.8 | 56.2 | 64.4 | 42.2 | 53.3 | 86 | 26 | 40 | 44 | 74 | 66 | .259 | .304 | 4.24 | 1.46 | | | 5.0 | 6.0 | 5.1 |
| May | 29.303 | 29.640 | 29.031 | 57.6 | 65.7 | 72.6 | 52.2 | 62.4 | 87 | 35 | 50 | 52 | 78 | 65 | .378 | .407 | 3.10 | 1.24 | | | 4.4 | 5.3 | 4.4 |
| June | 29.359 | 29.634 | 29.070 | 68.1 | 74.1 | 82.3 | 63.5 | 72.9 | 93 | 49 | 64 | 68 | 86 | 83 | .598 | .696 | 5.17 | 1.46 | | | 6.2 | 5.8 | 5.3 |
| July | 29.352 | 29.714 | 29.096 | 67.7 | 74.3 | 82.3 | 62.5 | 72.4 | 90 | 51 | 62 | 64 | 82 | 70 | .565 | .599 | 4.78 | 1.57 | | | 4.7 | 5.3 | 4.4 |
| August | 29.389 | 29.699 | 29.006 | 67.1 | 75.0 | 83.0 | 63.0 | 73.0 | 93 | 52 | 63 | 65 | 86 | 72 | .576 | .630 | 4.37 | 3.60 | | | 5.5 | 4.6 | 5.4 |
| September | 29.467 | 29.664 | 29.220 | 58.7 | 67.0 | 75.9 | 55.2 | 65.6 | 89 | 39 | 54 | 58 | 85 | 73 | .435 | .498 | 1.14 | .57 | | | 4.3 | 3.5 | 5.4 |
| October | 29.475 | 29.918 | 29.038 | 42.8 | 52.8 | 61.8 | 39.8 | 50.8 | 81 | 23 | 37 | 41 | 81 | 67 | .227 | .273 | 1.74 | .83 | | | 3.9 | 3.4 | 4.3 |
| November | 29.551 | 29.830 | 28.841 | 44.3 | 53.4 | 61.8 | 42.1 | 52.0 | 75 | 26 | 38 | 42 | 79 | 67 | .237 | .281 | .55 | .17 | | | 6.0 | 4.0 | 6.3 |
| December | 29.385 | 29.780 | 28.801 | 24.7 | 30.3 | 37.3 | 21.9 | 29.6 | 71 | 1 | 21 | 24 | 85 | 75 | .119 | .134 | 1.99 | .72 | | | 7.5 | 6.0 | 7.3 |
| Year | 29.396 | 29.985 | 28.638 | 48.8 | 56.0 | 64.0 | 44.8 | 54.4 | 93 | 1 | 44 | 47 | 82 | 73 | .329 | .373 | 39.11 | 3.60 | | | 5.8 | 5.2 | 5.8 |

PENSACOLA, FLA.

[$\phi$=30° 25′ N.; $\lambda$=87° 13′ W.]

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 30.111 | 30.416 | 29.707 | 51.8 | ..... | 64.3 | 49.0 | 56.6 | 76 | 22 | 47 | .... | 85 | .... | 0.369 | ..... | 1.71 | 0.60 | | | 3.8 | ..... | 4.9 |
| February | 30.066 | 30.503 | 29.753 | 51.2 | ..... | 63.8 | 48.7 | 56.2 | 73 | 25 | 44 | .... | 76 | .... | .321 | ..... | 4.40 | 1.58 | | | 5.0 | ..... | 4.9 |
| March | 29.897 | 30.176 | 29.591 | 58.8 | ..... | 69.7 | 55.9 | 62.8 | 79 | 40 | 52 | .... | 78 | .... | .418 | ..... | 2.73 | 1.08 | | | 5.6 | ..... | 5.7 |
| April | 30.014 | 30.265 | 29.780 | 63.6 | ..... | 72.8 | 60.2 | 66.5 | 80 | 44 | 58 | .... | 82 | .... | .511 | ..... | 4.17 | 1.74 | | | 5.9 | ..... | 5.3 |
| May | 29.895 | 30.238 | 29.647 | 69.9 | ..... | 77.5 | 65.3 | 71.4 | 84 | 50 | 63 | .... | 79 | .... | .599 | ..... | 3.87 | 2.65 | | | 5.1 | ..... | 5.4 |
| June | 29.929 | 30.086 | 29.629 | 78.7 | ..... | 85.7 | 74.3 | 80.0 | 92 | 70 | 71 | .... | 79 | .... | .770 | ..... | 6.03 | 2.97 | | | 4.3 | ..... | 5.0 |
| July | 29.936 | 30.160 | 29.757 | 78.9 | ..... | 87.0 | 76.0 | 81.5 | 91 | 71 | 74 | .... | 85 | .... | .836 | ..... | 4.54 | 2.76 | | | 5.3 | ..... | 6.6 |
| August | 29.909 | 30.075 | 29.636 | 78.1 | ..... | 87.2 | 75.0 | 81.1 | 97 | 69 | 74 | .... | 88 | .... | .841 | ..... | 11.77 | 2.93 | | | 4.5 | ..... | 5.1 |
| September | 29.934 | 30.050 | 29.707 | 73.0 | ..... | 84.3 | 71.2 | 77.8 | 91 | 54 | 67 | .... | 82 | .... | .696 | ..... | 2.25 | 1.00 | | | 4.1 | ..... | 4.6 |
| October | 30.055 | 30.233 | 29.732 | 64.6 | ..... | 77.1 | 62.5 | 69.8 | 91 | 46 | 55 | .... | 73 | .... | .460 | ..... | 8.13 | 5.47 | | | 1.8 | ..... | 2.0 |
| November | 30.142 | 30.384 | 29.772 | 59.1 | ..... | 71.7 | 57.1 | 64.4 | 80 | 38 | 52 | .... | 80 | .... | .421 | ..... | .88 | .40 | | | 2.7 | ..... | 2.6 |
| December | 30.048 | 30.431 | 29.739 | 45.0 | ..... | 58.5 | 41.8 | 50.2 | 74 | 21 | 40 | .... | 82 | .... | .279 | ..... | 8.55 | 3.01 | | | 3.5 | ..... | 4.2 |
| Year | 29.995 | 30.503 | 29.591 | 64.4 | ..... | 75.0 | 61.4 | 68.2 | 97 | 21 | 58 | .... | 81 | .... | .543 | ..... | 59.03 | 5.47 | | | 4.3 | ..... | 4.7 |

PEORIA, ILL.

[$\phi$=40° 43′ N.; $\lambda$=89° 36′ W.]

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.479 | 29.914 | 28.354 | 24.0 | 28.6 | 34.5 | 18.1 | 26.3 | 71 | — 9 | 21 | 24 | 87 | 82 | 0.133 | 0.153 | 1.55 | 0.80 | | | 7.4 | 6.2 | 7.4 |
| February | 29.259 | 29.886 | 28.673 | 27.0 | 34.0 | 41.1 | 22.6 | 31.8 | 61 | 7 | 24 | 28 | 87 | 79 | .135 | .161 | 3.67 | 1.00 | | | 6.5 | 5.0 | 6.1 |
| March | 29.289 | 29.821 | 28.760 | 30.8 | 38.8 | 45.9 | 27.8 | 36.8 | 61 | 11 | 26 | 29 | 82 | 68 | .142 | .164 | 1.81 | .67 | | | 5.1 | 5.9 | 5.5 |
| April | 29.392 | 29.756 | 28.643 | 42.7 | 52.1 | 59.4 | 37.5 | 48.4 | 85 | 21 | 35 | 39 | 74 | 62 | .213 | .254 | 7.17 | 1.92 | | | 6.0 | 6.5 | 5.6 |
| May | 29.240 | 29.578 | 28.892 | 53.8 | 64.0 | 70.0 | 48.4 | 59.2 | 86 | 32 | 46 | 49 | 74 | 61 | .324 | .382 | 3.72 | 1.46 | | | 4.5 | 4.1 | 4.1 |
| June | 29.330 | 29.644 | 29.082 | 66.2 | 74.5 | 81.3 | 61.1 | 71.2 | 90 | 47 | 60 | 63 | 83 | 70 | .540 | .594 | 3.56 | 1.37 | | | 5.3 | 6.0 | 5.6 |
| July | 29.329 | 29.658 | 29.007 | 66.7 | 76.5 | 81.9 | 61.0 | 71.4 | 94 | 47 | 61 | 64 | 82 | 66 | .544 | .603 | 4.57 | 2.37 | | | 5.4 | 3.5 | 4.3 |
| August | 29.377 | 29.641 | 29.094 | 68.8 | 80.1 | 89.8 | 64.2 | 77.0 | 97 | 50 | 63 | 65 | 82 | 60 | .585 | .629 | 79 | .74 | | | 2.5 | 3.3 | 3.0 |
| September | 29.450 | 29.884 | 28.863 | 56.1 | 64.6 | 75.2 | 52.8 | 64.0 | 92 | 35 | 52 | 56 | 85 | 75 | .399 | .469 | 3.68 | 1.36 | | | 3.5 | 3.9 | 4.0 |
| October | 29.426 | 29.923 | 28.962 | 41.6 | 51.9 | 60.9 | 38.6 | 49.8 | 82 | 22 | 36 | 40 | 81 | 65 | .222 | .261 | 3.39 | 1.35 | | | 3.8 | 3.4 | 4.2 |
| November | 29.444 | 29.873 | 28.950 | 43.9 | 49.3 | 57.6 | 38.3 | 48.0 | 74 | 18 | 39 | 41 | 83 | 73 | .256 | .270 | 5.53 | 1.47 | | | 6.7 | 4.7 | 5.6 |
| December | 29.372 | 29.836 | 28.888 | 17.0 | 20.9 | 26.7 | 11.6 | 19.2 | 58 | —12 | 15 | 17 | 91 | 83 | .105 | .111 | 2.50 | .75 | | | 6.5 | 5.9 | 6.5 |
| Year | 29.357 | 29.923 | 28.354 | 44.9 | 52.9 | 60.4 | 40.2 | 50.3 | 97 | —12 | 40 | 43 | 83 | 70 | .300 | .338 | 42.14 | 2.37 | | | 5.3 | 4.9 | 5.2 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

PALESTINE, TEX.

[H=510 ft.; $h_t$=73 ft.; $h_r$=68 ft.; $h_a$=79 ft.]

| Months. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature, 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 9.2 | S. | 37 | S. | 0 | 16 | 6 | 6 | 5 | 22 | 3 | 2 | 2 | 0 | 0 | 12 | 19 | 3 | 1 | 0 | 1 | 1 | 1 | 0 | 7 | 1 | 0 |
| February | 10.7 | S. | 36 | W. | 0 | 2 | 5 | 5 | 2 | 24 | 4 | 4 | 10 | 0 | 11 | 4 | 13 | 8 | 4 | 1 | 0 | 0 | 1 | 0 | 7 | 4 | 0 |
| March | 8.9 | NE. | 34 | NW. | 0 | 5 | 18 | 8 | 5 | 12 | 2 | 6 | 6 | 0 | 10 | 12 | 9 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| April | 10.1 | S. | 32 | SW. | 0 | 9 | 8 | 4 | 6 | 22 | 6 | 1 | 3 | 1 | 10 | 8 | 12 | 7 | 6 | 0 | 0 | 1 | 0 | 0 | 0 | 6 | 0 |
| May | 8.2 | S. | 39 | NW. | 0 | 4 | 6 | 7 | 17 | 20 | 4 | 1 | 3 | 0 | 7 | 13 | 11 | 8 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 8 | 0 |
| June | 6.2 | S. | 28 | NE. | 0 | 2 | 11 | 7 | 7 | 25 | 6 | 1 | 1 | 0 | 5 | 14 | 11 | 9 | 5 | 0 | 0 | 0 | 0 | 9 | 0 | 11 | 0 |
| July | 7.6 | S. | 25 | E. | 0 | 0 | 6 | 9 | 5 | 23 | 17 | 1 | 1 | 0 | 7 | 16 | 8 | 4 | 2 | 0 | 0 | 0 | 0 | 28 | 0 | 6 | 0 |
| August | 6.5 | E. | 24 | S. | 0 | 2 | 12 | 19 | 6 | 5 | 15 | 3 | 0 | 0 | 6 | 16 | 9 | 7 | 7 | 0 | 0 | 0 | 0 | 26 | 0 | 7 | 0 |
| September | 6.8 | NE. | 48 | SW. | 1 | 2 | 22 | 3 | 3 | 14 | 12 | 2 | 2 | 0 | 15 | 9 | 6 | 4 | 3 | 0 | 1 | 0 | 0 | 16 | 0 | 3 | 0 |
| October | 7.0 | SE. | 32 | NW. | 0 | 4 | 7 | 7 | 17 | 13 | 9 | 0 | 4 | 1 | 25 | 3 | 3 | 3 | 2 | 0 | 0 | 1 | 0 | 3 | 0 | 3 | 0 |
| November | 8.8 | SE. | 32 | SE. | 0 | 8 | 4 | 4 | 20 | 14 | 4 | 3 | 3 | 0 | 12 | 11 | 7 | 7 | 6 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| December | 7.9 | N. | 32 | W. | 0 | 13 | 13 | 1 | 5 | 10 | 7 | 2 | 11 | 0 | 13 | 10 | 8 | 8 | 7 | 1 | 0 | 1 | 1 | 0 | 18 | 2 | 0 |
| Year | 8.2 | S. | 48 | SW. | 1 | 67 | 118 | 80 | 98 | 204 | 89 | 26 | 46 | 2 | 121 | 128 | 116 | 75 | 54 | 2 | 2 | 7 | 3 | 82 | 32 | 55 | 0 |

PARKERSBURG, W. VA.

[H=638 ft.; $h_t$=77 ft.; $h_r$=70 ft.; $h_a$=84 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 6.5 | S. | 28 | NW. | 0 | 4 | 7 | 1 | 12 | 14 | 6 | 8 | 10 | 0 | 4 | 6 | 21 | 13 | 11 | 5 | 0 | 0 | 5 | 0 | 19 | 1 | 0 |
| February | 8.2 | S. | 40 | NW. | 1 | 6 | 2 | 3 | 7 | 14 | 8 | 11 | 5 | 0 | 6 | 7 | 15 | 14 | 13 | 2 | 1 | 1 | 2 | 0 | 14 | 3 | 0 |
| March | 8.3 | NW. | 36 | NW. | 0 | 6 | 6 | 1 | 7 | 8 | 6 | 11 | 17 | 0 | 8 | 10 | 13 | 14 | 12 | 2 | 0 | 0 | 1 | 0 | 15 | 1 | 0 |
| April | 7.8 | SE. | 48 | W. | 1 | 9 | 3 | 3 | 13 | 9 | 9 | 5 | 9 | 0 | 10 | 12 | 8 | 14 | 13 | 2 | 0 | 1 | 0 | 0 | 3 | 7 | 0 |
| May | 5.9 | N. | 40 | W. | 1 | 12 | 10 | 4 | 6 | 10 | 9 | 10 | 1 | 0 | 17 | 7 | 7 | 11 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| June | 3.9 | SW. | 34 | NW. | 0 | 10 | 3 | 4 | 10 | 10 | 13 | 8 | 2 | 0 | 11 | 10 | 9 | 17 | 15 | 0 | 0 | 0 | 0 | 1 | 0 | 18 | 0 |
| July | 4.6 | S. | 32 | NW. | 0 | 11 | 5 | 2 | 9 | 12 | 5 | 8 | 10 | 0 | 16 | 8 | 7 | 14 | 10 | 0 | 0 | 0 | 0 | 3 | 0 | 6 | 0 |
| August | 3.7 | N. | 22 | S. | 0 | 17 | 3 | 7 | 11 | 6 | 5 | 8 | 5 | 0 | 12 | 13 | 6 | 11 | 7 | 0 | 0 | 0 | 0 | 3 | 0 | 9 | 0 |
| September | 5.0 | N. | 22 | S. | 0 | 20 | 1 | 3 | 13 | 7 | 5 | 1 | 9 | 1 | 11 | 12 | 7 | 6 | 4 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 |
| October | 5.3 | S. | 24 | NW. | 0 | 8 | 4 | 3 | 10 | 14 | 6 | 8 | 8 | 1 | 18 | 7 | 6 | 8 | 6 | 0 | 0 | 1 | 0 | 0 | 4 | 1 | 0 |
| November | 6.1 | S. | 31 | W. | 0 | 6 | 4 | 5 | 11 | 18 | 5 | 5 | 6 | 0 | 9 | 8 | 13 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 7 | 1 | 0 |
| December | 6.9 | SW. | 30 | SW. | 0 | 0 | 2 | 3 | 12 | 9 | 15 | 14 | 7 | 0 | 4 | 11 | 16 | 12 | 9 | 7 | 0 | 0 | 14 | 0 | 26 | 0 | 0 |
| Year | 6.0 | S. | 48 | W. | 3 | 109 | 50 | 39 | 121 | 131 | 92 | 97 | 89 | 2 | 126 | 111 | 128 | 141 | 116 | 18 | 1 | 5 | 22 | 7 | 88 | 53 | 0 |

PENSACOLA, FLA.

[H=56 ft.; $h_t$=140 ft.; $h_r$=131 ft.; $h_a$=183 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 8.7 | NE. | 43 | NW. | 1 | 4 | 11 | 5 | 2 | 1 | 0 | 2 | 6 | 0 | 11 | 12 | 8 | 6 | 5 | 0 | 0 | 6 | 0 | 0 | 3 | 1 | 0 |
| February | 12.2 | SE. | 49 | SW. | 1 | 6 | 5 | 1 | 5 | 2 | 2 | 5 | 2 | 0 | 12 | 5 | 11 | 8 | 6 | 0 | 0 | 1 | 0 | 0 | 1 | 5 | 0 |
| March | 12.0 | SE. | 40 | S. | 1 | 5 | 7 | 1 | 4 | 2 | 5 | 4 | 3 | 0 | 10 | 5 | 16 | 5 | 4 | 0 | 0 | 6 | 0 | 0 | 0 | 2 | 0 |
| April | 11.6 | SE. | 46 | SW. | 1 | 4 | 6 | 3 | 6 | 1 | 7 | 0 | 3 | 0 | 11 | 5 | 14 | 9 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| May | 10.3 | SE. | 46 | W. | 3 | 2 | 6 | 7 | 5 | 5 | 2 | 1 | 3 | 0 | 9 | 11 | 11 | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 |
| June | 9.3 | SE. | 44 | SE. | 1 | 3 | 6 | 5 | 7 | 0 | 4 | 0 | 5 | 0 | 10 | 14 | 6 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 3 | 11 | 0 |
| July | 11.5 | SW. | 46 | NW. | 1 | 2 | 9 | 1 | 1 | 1 | 2 | 5 | 10 | 0 | 2 | 18 | 11 | 9 | 7 | 0 | 0 | 0 | 0 | 2 | 0 | 11 | 0 |
| August | 11.9 | E. | 63 | S. | 6 | 3 | 12 | 5 | 1 | 1 | 1 | 2 | 6 | 0 | 8 | 17 | 6 | 18 | 16 | 0 | 0 | 0 | 0 | 6 | 0 | 12 | 0 |
| September | 12.6 | N. | 64 | SE. | 4 | 10 | 15 | 2 | 0 | 2 | 0 | 1 | 0 | 0 | 11 | 16 | 3 | 7 | 7 | 0 | 0 | 0 | 0 | 1 | 0 | 14 | 0 |
| October | 12.9 | E. | 44 | E. | 3 | 9 | 11 | 6 | 1 | 0 | 2 | 0 | 2 | 0 | 25 | 3 | 3 | 4 | 4 | 0 | 0 | 1 | 0 | 1 | 0 | 4 | 0 |
| November | 12.0 | SE. | 34 | SE. | 0 | 7 | 8 | 11 | 1 | 1 | 1 | 0 | 1 | 0 | 19 | 9 | 2 | 3 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| December | 14.4 | N. | 52 | SE. | 6 | 10 | 8 | 3 | 2 | 0 | 2 | 3 | 3 | 0 | 15 | 7 | 9 | 16 | 14 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 0 |
| Year | 11.6 | NE. | 64 | SE. | 28 | 65 | 104 | 50 | 35 | 16 | 28 | 23 | 44 | 0 | 143 | 122 | 100 | 102 | 88 | 0 | 0 | 15 | 0 | 13 | 9 | 76 | 0 |

PEORIA, ILL.

[H=609 ft.; $h_t$=11 ft.; $h_r$=4 ft.; $h_a$=45 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 9.3 | S. | 38 | NW. | 0 | 10 | 6 | 1 | 10 | 17 | 2 | 4 | 12 | 0 | 4 | 9 | 18 | 9 | 7 | 6 | 0 | 2 | 13 | 0 | 25 | 2 | 0 |
| February | 11.1 | S. | 42 | SW. | 1 | 6 | 6 | 4 | 6 | 16 | 3 | 10 | 5 | 0 | 8 | 9 | 11 | 14 | 12 | 3 | 0 | 2 | 4 | 0 | 25 | 3 | 0 |
| March | 10.1 | NW. | 35 | SW. | 0 | 7 | 11 | 6 | 4 | 3 | 2 | 7 | 22 | 0 | 10 | 11 | 10 | 9 | 6 | 3 | 0 | 0 | 0 | 0 | 26 | 0 | 0 |
| April | 12.0 | S. | 49 | W. | 3 | 6 | 4 | 5 | 10 | 14 | 1 | 8 | 12 | 0 | 7 | 12 | 11 | 14 | 11 | 1 | 3 | 0 | 0 | 0 | 6 | 5 | 0 |
| May | 9.5 | S. | 38 | SW. | 0 | 3 | 12 | 5 | 11 | 12 | 4 | 7 | 8 | 0 | 16 | 10 | 5 | 14 | 11 | 0 | 0 | 0 | 0 | 0 | 1 | 11 | 0 |
| June | 5.9 | NE. | 30 | N. | 0 | 7 | 17 | 2 | 6 | 12 | 9 | 3 | 4 | 0 | 7 | 17 | 6 | 9 | 6 | 0 | 0 | 0 | 0 | 1 | 0 | 10 | 0 |
| July | 6.1 | E. | 24 | SW. | 0 | 3 | 10 | 8 | 8 | 9 | 9 | 6 | 8 | 1 | 13 | 12 | 6 | 9 | 5 | 0 | 0 | 0 | 0 | 3 | 0 | 4 | 0 |
| August | 4.9 | SW. | 18 | NW. | 0 | 8 | 8 | 10 | 7 | 12 | 10 | 2 | 4 | 1 | 21 | 7 | 3 | 4 | 1 | 0 | 0 | 0 | 0 | 16 | 0 | 6 | 0 |
| September | 5.5 | SE. | 35 | W. | 0 | 7 | 8 | 3 | 15 | 5 | 8 | 1 | 10 | 3 | 16 | 7 | 7 | 9 | 6 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 0 |
| October | 7.9 | S. | 38 | W. | 0 | 6 | 4 | 8 | 7 | 11 | 7 | 10 | 5 | 4 | 15 | 7 | 9 | 10 | 8 | 1 | 0 | 1 | 0 | 0 | 8 | 3 | 2 |
| November | 10.0 | S. | 27 | W. | 0 | 6 | 7 | 5 | 13 | 17 | 1 | 8 | 3 | 0 | 8 | 14 | 8 | 12 | 9 | 0 | 0 | 0 | 0 | 0 | 7 | 3 | 0 |
| December | 9.5 | W. | 36 | W. | 0 | 0 | 1 | 7 | 5 | 8 | 7 | 25 | 9 | 0 | 8 | 8 | 15 | 11 | 10 | 7 | 0 | 0 | 23 | 0 | 27 | 1 | 0 |
| Year | 8.5 | S. | 49 | W. | 4 | 69 | 94 | 64 | 102 | 136 | 63 | 91 | 102 | 9 | 133 | 123 | 109 | 124 | 92 | 21 | 4 | 5 | 40 | 22 | 125 | 52 | 2 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

PHILADELPHIA, PA.

[$\phi$=39° 57′ N.; $\lambda$=75° 09′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 30.035 | 30.531 | 29.088 | 33.2 | 36.8 | 42.5 | 28.6 | 35.6 | 58 | 9 | 26 | 29 | 76 | 74 | 0.154 | 0.169 | 2.52 | 0.95 | 6.2 | 5.6 | 6.3 |
| February | 29.856 | 30.301 | 29.273 | 37.8 | 42.6 | 49.0 | 33.5 | 41.2 | 67 | 12 | 30 | 32 | 73 | 67 | .182 | .193 | 4.62 | 2.00 | 6.9 | 6.2 | 6.5 |
| March | 29.747 | 30.377 | 28.762 | 37.9 | 42.7 | 48.5 | 34.4 | 41.4 | 71 | 25 | 30 | 30 | 71 | 62 | .174 | .171 | 2.92 | .79 | 5.1 | 4.9 | 5.2 |
| April | 29.954 | 30.550 | 29.575 | 48.4 | 54.8 | 61.9 | 44.4 | 53.2 | 84 | 29 | 37 | 42 | 67 | 63 | .235 | .281 | 4.49 | 2.19 | 5.7 | 4.8 | 5.6 |
| May | 29.823 | 30.126 | 29.457 | 58.7 | 65.3 | 72.3 | 54.2 | 63.2 | 89 | 42 | 47 | 49 | 68 | 59 | .340 | .366 | 2.67 | 1.36 | 5.4 | 5.4 | 5.4 |
| June | 29.868 | 30.143 | 29.589 | 69.7 | 74.0 | 80.3 | 65.4 | 72.8 | 94 | 54 | 60 | 62 | 72 | 69 | .529 | .578 | 2.26 | .72 | 5.7 | 6.3 | 6.3 |
| July | 29.838 | 30.145 | 29.424 | 71.5 | 76.4 | 83.8 | 66.8 | 75.3 | 95 | 59 | 58 | 59 | 66 | 56 | .509 | .514 | 2.19 | 1.09 | 3.5 | 5.5 | 4.3 |
| August | 29.909 | 30.251 | 29.418 | 68.8 | 73.8 | 81.2 | 64.9 | 73.0 | 98 | 58 | 59 | 58 | 72 | 58 | .511 | .482 | 1.95 | 1.57 | 3.8 | 5.1 | 4.6 |
| September | 29.997 | 30.346 | 29.721 | 62.8 | 67.6 | 74.8 | 59.7 | 67.2 | 81 | 52 | 56 | 55 | 78 | 65 | .461 | .450 | 3.55 | 1.59 | 5.4 | 4.3 | 5.2 |
| October | 29.971 | 30.468 | 29.556 | 50.0 | 56.1 | 62.6 | 47.5 | 55.0 | 78 | 36 | 41 | 41 | 71 | 58 | .269 | .273 | .83 | .33 | 3.7 | 3.1 | 3.9 |
| November | 30.069 | 30.589 | 29.498 | 46.8 | 50.3 | 57.3 | 43.2 | 50.2 | 77 | 32 | 39 | 38 | 73 | 64 | .251 | .247 | 3.50 | 2.00 | 4.6 | 3.1 | 4.6 |
| December | 29.843 | 30.368 | 28.984 | 30.4 | 34.2 | 38.9 | 27.7 | 33.3 | 58 | 10 | 20 | 23 | 65 | 63 | .115 | .133 | 5.86 | 2.80 | 6.0 | 4.4 | 4.8 |
| Year | 29.909 | 30.589 | 28.762 | 51.3 | 56.2 | 62.8 | 47.5 | 55.1 | 98 | 9 | 42 | 43 | 71 | 63 | .311 | .321 | 37.36 | 2.80 | 5.2 | 4.9 | 5.2 |

PHOENIX ARIZ.

[$\phi$=33° 28′ N.; $\lambda$=112° 00′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 28.860 | 29.012 | 28.596 | 46.8 | 63.4 | 67.6 | 43.6 | 55.6 | 77 | 35 | 38 | 36 | 74 | 38 | 0.236 | 0.217 | 0.09 | 0.08 | 4.0 | 5.2 | 4.5 |
| February | 28.845 | 29.149 | 28.416 | 44.9 | 63.1 | 66.6 | 40.4 | 53.5 | 77 | 32 | 34 | 29 | 68 | 30 | .201 | .163 | .68 | .48 | 2.5 | 5.1 | 3.7 |
| March | 28.753 | 28.988 | 28.529 | 46.7 | 66.4 | 69.5 | 44.1 | 56.8 | 82 | 34 | 36 | 30 | 68 | 28 | .215 | .174 | .67 | .36 | 2.5 | 3.6 | 3.6 |
| April | 28.726 | 29.061 | 28.365 | 54.5 | 80.1 | 82.3 | 51.7 | 67.0 | 94 | 38 | 32 | 22 | 44 | 12 | .185 | .118 | .07 | .07 | 1.4 | 1.2 | 1.1 |
| May | 28.635 | 28.833 | 28.463 | 59.6 | 86.0 | 88.4 | 57.7 | 73.0 | 99 | 49 | 34 | 26 | 39 | 12 | .197 | .142 | T. | T. | 1.5 | 1.5 | 1.2 |
| June | 28.626 | 28.733 | 28.420 | 70.9 | 98.7 | 100.7 | 69.0 | 84.8 | 109 | 61 | 40 | 39 | 34 | 13 | .263 | .251 | T. | T. | 1.1 | 1.2 | 1.3 |
| July | 28.654 | 28.790 | 28.441 | 78.3 | 99.9 | 101.9 | 75.5 | 88.7 | 110 | 69 | 59 | 54 | 54 | 23 | .524 | .435 | 1.00 | .90 | 4.2 | 3.0 | 3.2 |
| August | 28.678 | 28.779 | 28.512 | 78.8 | 94.2 | 97.7 | 75.8 | 86.8 | 106 | 70 | 69 | 65 | 73 | 40 | .706 | .616 | 1.94 | .78 | 6.5 | 6.3 | 5.7 |
| September | 28.724 | 28.886 | 28.524 | 70.7 | 90.3 | 94.0 | 68.0 | 81.0 | 104 | 61 | 58 | 52 | 66 | 31 | .502 | .415 | .42 | .20 | 2.2 | 3.0 | 2.6 |
| October | 28.779 | 28.958 | 28.586 | 57.9 | 82.2 | 87.6 | 54.6 | 71.1 | 95 | 44 | 41 | 49 | 55 | 33 | .263 | .356 | .00 | .00 | .6 | 1.1 | 1.8 |
| November | 28.834 | 29.076 | 28.572 | 47.3 | 67.9 | 74.7 | 43.8 | 59.2 | 92 | 34 | 39 | 49 | 75 | 52 | .244 | .355 | .28 | .28 | 1.6 | 2.8 | 2.5 |
| December | 28.855 | 29.172 | 28.488 | 40.1 | 54.7 | 59.2 | 37.0 | 48.1 | 70 | 25 | 36 | 42 | 84 | 64 | .212 | .274 | 1.02 | .48 | 4.1 | 5.4 | 4.4 |
| Year | 28.747 | 29.172 | 28.365 | 58.0 | 78.9 | 82.5 | 55.1 | 68.8 | 110 | 25 | 43 | 41 | 61 | 31 | .312 | .293 | 6.17 | .90 | 2.7 | 3.3 | 2.9 |

PIERRE, S. DAK.

[$\phi$=44° 22′ N.; $\lambda$=100° 21′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 28.405 | 29.008 | 27.778 | 10.9 | 17.9 | 25.1 | 6.4 | 15.8 | 51 | −18 | 4 | 10 | 73 | 69 | 0.068 | 0.085 | 0.27 | 0.08 | 3.7 | 5.3 | 5.4 |
| February | 28.290 | 29.038 | 27.803 | 15.8 | 23.9 | 31.2 | 12.7 | 22.0 | 57 | −13 | 10 | 14 | 75 | 64 | .077 | .093 | .42 | .38 | 4.9 | 4.3 | 5.0 |
| March | 28.339 | 28.858 | 27.907 | 25.4 | 38.6 | 43.3 | 24.4 | 33.8 | 68 | 12 | 19 | 21 | 73 | 49 | .102 | .113 | .02 | .02 | 4.5 | 4.5 | 5.2 |
| April | 28.279 | 28.819 | 27.782 | 32.1 | 49.1 | 53.4 | 29.9 | 41.6 | 76 | 17 | 22 | 22 | 65 | 38 | .119 | .121 | .68 | .26 | 5.8 | 6.3 | 5.8 |
| May | 28.182 | 28.571 | 27.704 | 47.5 | 64.2 | 68.8 | 44.3 | 56.6 | 87 | 30 | 39 | 36 | 71 | 40 | .246 | .237 | 2.75 | .99 | 4.4 | 5.0 | 5.0 |
| June | 28.296 | 28.546 | 28.055 | 61.1 | 77.4 | 80.4 | 58.9 | 69.6 | 100 | 46 | 55 | 55 | 80 | 50 | .438 | .455 | 1.39 | .51 | 4.7 | 4.4 | 4.8 |
| July | 28.278 | 28.610 | 27.928 | 65.8 | 83.2 | 86.7 | 63.3 | 75.0 | 102 | 55 | 57 | 55 | 75 | 42 | .478 | .439 | .73 | .26 | 4.0 | 3.3 | 3.6 |
| August | 28.300 | 28.688 | 27.976 | 67.2 | 85.6 | 91.4 | 65.4 | 78.4 | 105 | 52 | 59 | 56 | 76 | 40 | .514 | .472 | 3.03 | 1.39 | 3.0 | 3.3 | 3.3 |
| September | 28.367 | 28.698 | 27.908 | 53.5 | 71.2 | 77.2 | 52.1 | 64.6 | 94 | 40 | 46 | 45 | 76 | 43 | .317 | .311 | 1.19 | .55 | 4.8 | 3.9 | 4.7 |
| October | 28.368 | 28.942 | 27.955 | 40.6 | 55.0 | 63.3 | 38.1 | 50.7 | 93 | 17 | 30 | 30 | 68 | 42 | .176 | .171 | .17 | .13 | 3.8 | 4.6 | 4.7 |
| November | 28.366 | 28.931 | 27.639 | 28.4 | 38.3 | 44.6 | 25.5 | 35.0 | 81 | 7 | 21 | 24 | 74 | 62 | .121 | .136 | 1.24 | .54 | 4.0 | 5.9 | 6.2 |
| December | 28.420 | 28.686 | 27.942 | 9.7 | 12.6 | 18.5 | 5.4 | 12.0 | 44 | −12 | 4 | 6 | 76 | 74 | .056 | .061 | 1.10 | .30 | 5.0 | 5.3 | 6.3 |
| Year | 28.324 | 29.038 | 27.639 | 38.2 | 51.4 | 57.0 | 35.5 | 46.3 | 105 | −18 | 30 | 31 | 74 | 51 | .226 | .224 | 12.99 | 1.39 | 4.4 | 4.7 | 5.0 |

PITTSBURG, PA.

[$\phi$=40° 32′ N.; $\lambda$=80° 02′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.222 | 29.637 | 28.253 | 32.2 | 37.0 | 42.7 | 27.5 | 35.1 | 66 | 10 | 26 | 29 | 79 | 73 | 0.156 | 0.176 | 3.10 | 0.83 | 7.5 | 6.3 | 7.5 |
| February | 29.039 | 29.681 | 28.477 | 33.8 | 38.7 | 45.8 | 28.8 | 37.3 | 64 | 9 | 28 | 31 | 78 | 74 | .161 | .184 | 4.47 | 1.40 | 6.6 | 7.2 | 7.4 |
| March | 28.991 | 29.514 | 28.270 | 33.6 | 38.8 | 44.5 | 29.6 | 37.0 | 65 | 19 | 26 | 29 | 72 | 68 | .145 | .166 | 3.14 | .62 | 6.8 | 6.3 | 6.7 |
| April | 29.121 | 29.654 | 28.662 | 46.6 | 52.5 | 59.2 | 40.9 | 50.0 | 80 | 22 | 35 | 39 | 64 | 63 | .212 | .256 | 5.23 | .95 | 5.8 | 6.6 | 6.7 |
| May | 29.042 | 29.384 | 28.744 | 56.0 | 64.2 | 70.1 | 50.9 | 60.5 | 84 | 35 | 45 | 46 | 68 | 56 | .308 | .327 | 1.51 | .51 | 5.7 | 5.3 | 5.7 |
| June | 29.103 | 29.350 | 28.780 | 66.9 | 73.2 | 78.9 | 62.4 | 70.6 | 88 | 50 | 58 | 61 | 74 | 67 | .501 | .547 | 4.92 | 1.82 | 5.5 | 5.4 | 6.1 |
| July | 29.068 | 29.441 | 28.795 | 66.9 | 74.6 | 80.3 | 62.1 | 71.2 | 88 | 50 | 57 | 57 | 70 | 56 | .471 | .490 | 1.22 | .48 | 4.4 | 5.2 | 5.1 |
| August | 29.137 | 29.447 | 28.739 | 66.9 | 76.3 | 81.3 | 63.5 | 72.4 | 91 | 52 | 58 | 60 | 74 | 59 | .488 | .536 | 3.33 | 1.38 | 4.4 | 3.3 | 4.3 |
| September | 29.213 | 29.420 | 28.949 | 58.1 | 67.6 | 75.0 | 55.2 | 65.1 | 87 | 39 | 50 | 52 | 77 | 58 | .382 | .404 | .76 | .34 | 3.6 | 4.3 | 4.5 |
| October | 29.206 | 29.667 | 28.733 | 43.6 | 52.3 | 58.2 | 40.9 | 49.6 | 80 | 31 | 36 | 38 | 74 | 60 | .217 | .246 | 2.36 | 1.24 | 4.7 | 3.5 | 5.3 |
| November | 29.284 | 29.612 | 28.583 | 44.5 | 52.5 | 58.9 | 41.9 | 50.4 | 73 | 23 | 36 | 39 | 74 | 61 | .227 | .253 | .84 | .34 | 5.2 | 4.3 | 5.8 |
| December | 29.088 | 29.476 | 28.454 | 23.6 | 28.6 | 33.7 | 20.0 | 26.8 | 65 | − 1 | 18 | 21 | 79 | 74 | .105 | .122 | 2.30 | .98 | 8.3 | 6.5 | 7.8 |
| Year | 29.128 | 29.681 | 28.253 | 47.7 | 54.7 | 60.7 | 43.6 | 52.2 | 91 | − 1 | 39 | 42 | 74 | 64 | .281 | .308 | 33.18 | 1.82 | 5.7 | 5.4 | 6.1 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

PHILADELPHIA, PA.

[H=117 ft.; $h_t$=116 ft.; $h_r$=114 ft.; $h_a$=184 ft.]

| Months. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature, 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 10.9 | NW. | 38 | NW. | 0 | 9 | 8 | 2 | 4 | 7 | 9 | 9 | 14 | 0 | 8 | 10 | 13 | 14 | 8 | 5 | 0 | 4 | 5 | 0 | 20 | 0 | 0 |
| February | 12.0 | NW. | 38 | NW. | 0 | 2 | 9 | 1 | 8 | 8 | 6 | 10 | 12 | 0 | 6 | 10 | 12 | 13 | 11 | 3 | 0 | 1 | 1 | 0 | 12 | 2 | 0 |
| March | 12.0 | NW. | 36 | N. | 0 | 6 | 6 | 2 | 8 | 5 | 2 | 12 | 21 | 0 | 12 | 9 | 10 | 13 | 10 | 3 | 0 | 0 | 0 | 0 | 11 | 0 | 0 |
| April | 11.9 | NW. | 38 | NW. | 0 | 10 | 6 | 4 | 11 | 8 | 2 | 9 | 10 | 0 | 11 | 6 | 13 | 12 | 9 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 |
| May | 11.0 | NW. | 33 | NW. | 0 | 8 | 6 | 4 | 9 | 9 | 6 | 6 | 14 | 0 | 10 | 11 | 10 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| June | 8.6 | S. | 27 | SE. | 0 | 9 | 4 | 7 | 5 | 9 | 11 | 7 | 8 | 0 | 5 | 13 | 12 | 13 | 9 | 0 | 0 | 0 | 0 | 0 | 7 | 4 | 0 |
| July | 8.9 | NW. | 44 | NW. | 1 | 8 | 1 | 1 | 11 | 9 | 12 | 6 | 14 | 0 | 13 | 15 | 3 | 4 | 4 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 |
| August | 9.4 | N. | 32 | N. | 0 | 14 | 9 | 5 | 10 | 7 | 9 | 1 | 7 | 0 | 16 | 6 | 9 | 4 | 3 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 |
| September | 9.1 | NW. | 30 | N. | 0 | 16 | 4 | 3 | 10 | 8 | 6 | 3 | 9 | 1 | 11 | 10 | 9 | 8 | 7 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| October | 9.5 | NW. | 28 | NW. | 0 | 8 | 2 | 3 | 5 | 6 | 5 | 11 | 22 | 0 | 16 | 6 | 9 | 8 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 |
| November | 11.0 | NW. | 40 | NE. | 1 | 14 | 4 | 2 | 1 | 9 | 10 | 9 | 11 | 0 | 13 | 8 | 9 | 7 | 6 | 1 | 0 | 3 | 0 | 0 | 1 | 1 | 0 |
| December | 11.7 | NW. | 37 | SE. | 0 | 3 | 7 | 0 | 1 | 2 | 9 | 9 | 31 | 0 | 14 | 8 | 9 | 6 | 5 | 5 | 0 | 1 | 8 | 0 | 21 | 0 | 0 |
| Year | 10.5 | NW. | 44 | NW. | 2 | 107 | 66 | 34 | 83 | 87 | 87 | 92 | 173 | 1 | 135 | 112 | 118 | 109 | 82 | 17 | 0 | 15 | 14 | 12 | 66 | 18 | 0 |

PHOENIX, ARIZ.

[H=1,108 ft.; $h_t$=50 ft.; $h_r$=41 ft.; $h_a$=56 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 3.2 | E. | 17 | W. | 0 | 6 | 7 | 20 | 3 | 1 | 4 | 11 | 10 | 0 | 13 | 11 | 7 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| February | 4.3 | E. | 28 | SW. | 0 | 7 | 4 | 16 | 4 | 0 | 7 | 13 | 5 | 0 | 15 | 9 | 4 | 5 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| March | 4.6 | E. | 22 | SW. | 0 | 4 | 3 | 22 | 7 | 3 | 4 | 8 | 11 | 0 | 15 | 13 | 3 | 6 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 |
| April | 5.3 | E. | 23 | SW. | 0 | 3 | 4 | 19 | 2 | 1 | 18 | 7 | 6 | 0 | 26 | 4 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| May | 4.9 | E. | 23 | SW. | 0 | 3 | 3 | 22 | 2 | 3 | 14 | 10 | 5 | 0 | 26 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 2 | 0 |
| June | 4.4 | E. | 20 | W. | 0 | 5 | 4 | 21 | 2 | 0 | 5 | 15 | 8 | 0 | 25 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 |
| July | 4.6 | E. | 28 | SE. | 0 | 5 | 7 | 15 | 8 | 1 | 3 | 12 | 11 | 0 | 14 | 17 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 31 | 0 | 12 | 0 |
| August | 3.9 | E. | 30 | NE. | 0 | 2 | 6 | 16 | 7 | 2 | 10 | 11 | 7 | 1 | 5 | 22 | 4 | 10 | 9 | 0 | 0 | 0 | 0 | 28 | 0 | 20 | 0 |
| September | 3.9 | E. | 23 | SE. | 0 | 5 | 5 | 19 | 5 | 3 | 5 | 8 | 10 | 0 | 20 | 9 | 1 | 4 | 3 | 0 | 0 | 0 | 0 | 26 | 0 | 3 | 0 |
| October | 3.7 | E. | 22 | SW. | 0 | 2 | 3 | 25 | 2 | 1 | 5 | 14 | 10 | 0 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 0 |
| November | 3.2 | E. | 24 | W. | 0 | 4 | 4 | 21 | 1 | 1 | 6 | 14 | 9 | 0 | 22 | 7 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| December | 3.1 | W. | 20 | S. | 0 | 5 | 5 | 14 | 3 | 2 | 9 | 16 | 8 | 0 | 14 | 11 | 6 | 5 | 5 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 0 |
| Year | 4.1 | E. | 30 | NE. | 0 | 51 | 55 | 230 | 46 | 18 | 90 | 139 | 100 | 1 | 225 | 114 | 26 | 40 | 28 | 0 | 2 | 3 | 0 | 147 | 5 | 40 | 0 |

PIERRE, S. DAK.

[H=1,572 ft.; $h_t$=70 ft.; $h_r$=63 ft.; $h_a$=75 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 10.1 | E. | 61 | NW. | 2 | 6 | 6 | 15 | 10 | 2 | 5 | 3 | 15 | 0 | 9 | 11 | 11 | 6 | 4 | 6 | 0 | 0 | 16 | 0 | 29 | 0 | 0 |
| February | 9.2 | E. | 42 | NW. | 1 | 6 | 8 | 15 | 6 | 2 | 5 | 1 | 13 | 0 | 8 | 14 | 6 | 2 | 2 | 2 | 0 | 1 | 14 | 0 | 27 | 0 | 0 |
| March | 10.6 | NW. | 43 | NW. | 2 | 7 | 4 | 12 | 10 | 3 | 2 | 2 | 21 | 1 | 8 | 16 | 7 | 1 | 0 | 0 | 0 | 0 | 5 | 0 | 28 | 0 | 0 |
| April | 13.2 | NW. | 48 | NW. | 1 | 10 | 3 | 9 | 12 | 0 | 4 | 2 | 20 | 0 | 7 | 15 | 8 | 11 | 6 | 4 | 0 | 0 | 0 | 0 | 19 | 0 | 0 |
| May | 13.1 | NW. | 62 | NW. | 1 | 7 | 6 | 10 | 11 | 1 | 2 | 4 | 21 | 0 | 10 | 13 | 8 | 14 | 13 | 0 | 1 | 1 | 0 | 0 | 3 | 5 | 0 |
| June | 9.6 | SE. | 51 | SW. | 1 | 8 | 6 | 10 | 20 | 4 | 1 | 2 | 9 | 0 | 13 | 10 | 7 | 11 | 5 | 0 | 0 | 0 | 0 | 5 | 0 | 10 | 0 |
| July | 11.1 | E. | 48 | W. | 3 | 5 | 7 | 13 | 16 | 4 | 5 | 3 | 9 | 0 | 17 | 10 | 4 | 6 | 5 | 0 | 0 | 0 | 0 | 13 | 0 | 8 | 0 |
| August | 10.3 | SE. | 50 | SE. | 2 | 7 | 11 | 15 | 17 | 4 | 0 | 2 | 6 | 0 | 18 | 12 | 1 | 8 | 6 | 0 | 1 | 0 | 0 | 18 | 0 | 9 | 0 |
| September | 9.3 | E. | 36 | SE. | 0 | 8 | 3 | 21 | 13 | 2 | 3 | 1 | 9 | 0 | 11 | 13 | 6 | 6 | 5 | 0 | 0 | 1 | 0 | 3 | 0 | 2 | 0 |
| October | 11.0 | NW. | 46 | NW. | 1 | 3 | 9 | 10 | 9 | 3 | 4 | 3 | 21 | 0 | 12 | 12 | 7 | 2 | 2 | 0 | 0 | 2 | 0 | 2 | 7 | 1 | 0 |
| November | 7.9 | E. | 38 | W. | 0 | 5 | 9 | 13 | 11 | 2 | 5 | 2 | 13 | 0 | 8 | 11 | 11 | 8 | 6 | 8 | 0 | 1 | 8 | 0 | 21 | 0 | 0 |
| December | 10.8 | NW. | 42 | NW. | 1 | 7 | 3 | 9 | 4 | 1 | 3 | 15 | 20 | 0 | 7 | 9 | 15 | 11 | 9 | 11 | 0 | 0 | 26 | 0 | 31 | 0 | 0 |
| Year | 10.5 | NW. | 62 | NW. | 15 | 79 | 75 | 152 | 139 | 28 | 39 | 40 | 177 | 1 | 128 | 146 | 91 | 86 | 63 | 31 | 2 | 6 | 69 | 41 | 165 | 35 | 0 |

PITTSBURG, PA.

[H=842 ft.; $h_t$=336 ft.; $h_r$=329 ft.; $h_a$=352 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 11.2 | S. | 42 | NW. | 1 | 2 | 11 | 1 | 6 | 11 | 12 | 8 | 11 | 0 | 5 | 8 | 18 | 15 | 11 | 10 | 0 | 1 | 7 | 0 | 23 | 1 | 0 |
| February | 13.1 | W. | 54 | W. | 6 | 4 | 7 | 2 | 5 | 4 | 15 | 10 | 9 | 0 | 4 | 7 | 17 | 16 | 15 | 4 | 0 | 1 | 5 | 0 | 18 | 2 | 0 |
| March | 13.1 | NW. | 48 | W. | 3 | 8 | 4 | 4 | 3 | 5 | 4 | 14 | 20 | 0 | 7 | 8 | 16 | 17 | 13 | 7 | 0 | 0 | 2 | 0 | 21 | 1 | 0 |
| April | 11.7 | W. | 68 | W. | 7 | 3 | 9 | 1 | 9 | 6 | 11 | 11 | 10 | 0 | 2 | 17 | 11 | 15 | 12 | 3 | 3 | 0 | 1 | 0 | 3 | 6 | 0 |
| May | 10.0 | W. | 56 | W. | 1 | 5 | 7 | 5 | 1 | 10 | 11 | 12 | 11 | 0 | 6 | 14 | 11 | 9 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| June | 7.1 | SW. | 52 | W. | 1 | 6 | 11 | 1 | 2 | 7 | 10 | 10 | 13 | 0 | 6 | 11 | 13 | 16 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 |
| July | 8.9 | NW. | 42 | W. | 3 | 10 | 10 | 0 | 3 | 6 | 12 | 4 | 17 | 0 | 9 | 16 | 6 | 9 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 |
| August | 7.3 | N. | 31 | SW. | 0 | 10 | 18 | 0 | 6 | 5 | 9 | 5 | 9 | 0 | 16 | 10 | 5 | 9 | 6 | 0 | 1 | 3 | 0 | 2 | 0 | 5 | 0 |
| September | 8.8 | N. | 38 | S. | 0 | 13 | 9 | 3 | 5 | 5 | 6 | 3 | 16 | 0 | 13 | 11 | 6 | 8 | 5 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 0 |
| October | 9.8 | W. | 35 | W. | 0 | 3 | 12 | 5 | 3 | 5 | 10 | 9 | 15 | 0 | 9 | 12 | 10 | 5 | 4 | 0 | 0 | 7 | 0 | 0 | 2 | 1 | 0 |
| November | 10.3 | S. | 48 | W. | 3 | 7 | 6 | 2 | 6 | 17 | 4 | 11 | 7 | 0 | 10 | 8 | 12 | 9 | 5 | 2 | 0 | 3 | 0 | 0 | 8 | 0 | 0 |
| December | 12.1 | W. | 69 | W. | 3 | 3 | 6 | 4 | 2 | 5 | 9 | 26 | 7 | 0 | 4 | 8 | 19 | 14 | 9 | 13 | 0 | 2 | 17 | 0 | 28 | 0 | 0 |
| Year | 10.3 | NW. | 69 | W. | 28 | 74 | 110 | 28 | 51 | 86 | 113 | 123 | 145 | 0 | 91 | 130 | 144 | 142 | 105 | 39 | 4 | 20 | 32 | 2 | 103 | 39 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

POCATELLO, IDAHO.

[$\phi$=42° 52′ N.; $\lambda$=112° 29′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 25.381 | 25.906 | 24.857 | 30.8 | 34.9 | 40.4 | 26.1 | 33.2 | 52 | 6 | 24 | 26 | 76 | 68 | 0.139 | 0.146 | 3.13 | 0.75 | 6.9 | 7.2 | 6.9 |
| February | 25.398 | 25.724 | 24.888 | 29.2 | 34.4 | 38.2 | 26.2 | 32.2 | 51 | 13 | 24 | 26 | 78 | 72 | .125 | .140 | 2.86 | 1.07 | 6.0 | 7.4 | 7.5 |
| March | 25.394 | 25.719 | 25.025 | 32.4 | 41.8 | 46.0 | 29.5 | 37.8 | 56 | 11 | 25 | 29 | 74 | 62 | .137 | .160 | 1.41 | .28 | 6.2 | 5.7 | 5.9 |
| April | 25.426 | 25.935 | 25.127 | 34.9 | 49.3 | 53.3 | 32.1 | 42.7 | 67 | 18 | 24 | 28 | 65 | 43 | .130 | .155 | .55 | .32 | 4.6 | 5.7 | 5.4 |
| May | 25.391 | 25.718 | 25.109 | 42.0 | 59.2 | 62.5 | 38.6 | 50.6 | 77 | 27 | 31 | 33 | 66 | 42 | .177 | .195 | 2.78 | 1.53 | 5.1 | 5.4 | 5.3 |
| June | 25.454 | 25.638 | 25.197 | 53.5 | 75.5 | 77.8 | 51.1 | 64.4 | 94 | 40 | 41 | 40 | 64 | 30 | .258 | .249 | .49 | .26 | 4.0 | 4.5 | 4.1 |
| July | 25.468 | 25.755 | 25.058 | 57.6 | 82.3 | 85.3 | 54.3 | 69.8 | 98 | 43 | 44 | 40 | 60 | 25 | .295 | .259 | .81 | .34 | 2.3 | 3.3 | 2.7 |
| August | 25.492 | 25.672 | 25.329 | 60.5 | 81.0 | 86.5 | 57.0 | 71.8 | 93 | 39 | 45 | 42 | 57 | 31 | .311 | .288 | 3.07 | 1.29 | 3.2 | 3.8 | 3.5 |
| September | 25.545 | 25.823 | 25.230 | 51.1 | 66.5 | 71.6 | 47.3 | 59.4 | 83 | 30 | 40 | 44 | 66 | 47 | .258 | .306 | 2.47 | .68 | 4.5 | 4.9 | 4.9 |
| October | 25.543 | 25.895 | 25.177 | 40.4 | 56.5 | 62.7 | 36.7 | 49.7 | 74 | 25 | 28 | 33 | 63 | 44 | .159 | .201 | 1.17 | .44 | 3.9 | 4.3 | 4.5 |
| November | 25.491 | 25.948 | 25.093 | 35.4 | 41.6 | 47.8 | 31.0 | 39.4 | 68 | 16 | 28 | 29 | 73 | 62 | .158 | .164 | 2.80 | .66 | 7.1 | 7.4 | 7.1 |
| December | 25.506 | 25.925 | 25.047 | 17.1 | 22.0 | 27.0 | 11.6 | 19.3 | 40 | − 4 | 11 | 16 | 76 | 79 | .075 | .094 | .89 | .26 | 7.5 | 7.2 | 7.5 |
| Year | 25.457 | 25.948 | 24.857 | 40.4 | 53.8 | 58.3 | 36.8 | 47.5 | 98 | − 4 | 30 | 32 | 68 | 50 | .185 | .188 | 22.43 | 1.53 | 5.1 | 5.6 | 5.4 |

POINT REYES LIGHT, CAL.

[$\phi$=38° 11′ N.; $\lambda$=122° 51′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.405 | 29.662 | 29.088 | ..... | 50.3 | 52.8 | 46.3 | 49.6 | 58 | 38 | .... | 47 | .... | 90 | ..... | 0.332 | 9.78 | 1.38 | ..... | 8.3 | 8.5 |
| February | 29.506 | 29.746 | 28.983 | ..... | 50.5 | 52.9 | 45.5 | 49.2 | 57 | 40 | .... | 46 | .... | 86 | ..... | .317 | 5.71 | 1.48 | ..... | 6.1 | 6.9 |
| March | 29.470 | 29.751 | 29.075 | ..... | 50.2 | 53.1 | 44.3 | 48.7 | 63 | 38 | .... | 46 | .... | 85 | ..... | .306 | 2.86 | .77 | ..... | 5.3 | 5.9 |
| April | 29.498 | 29.678 | 29.182 | ..... | 52.8 | 56.7 | 46.5 | 51.6 | 75 | 43 | .... | 47 | .... | 82 | ..... | .319 | T. | T. | ..... | 3.5 | 3.7 |
| May | 29.443 | 29.672 | 29.313 | ..... | 51.8 | 53.8 | 46.2 | 50.0 | 63 | 43 | .... | 48 | .... | 88 | ..... | .336 | T. | T. | ..... | 3.6 | 4.8 |
| June | 29.421 | 29.545 | 29.118 | ..... | 53.4 | 55.1 | 47.4 | 51.2 | 61 | 45 | .... | 50 | .... | 88 | ..... | .357 | T. | T. | ..... | 3.1 | 5.9 |
| July | 29.406 | 29.484 | 29.238 | ..... | 54.3 | 55.7 | 48.1 | 51.9 | 61 | 44 | .... | 50 | .... | 88 | ..... | .365 | 0 | 0 | ..... | 1.6 | 4.6 |
| August | 29.389 | 29.482 | 29.226 | ..... | 54.7 | 57.1 | 48.7 | 52.9 | 69 | 47 | .... | 52 | .... | 89 | ..... | .382 | 0 | 0 | ..... | 3.2 | 5.5 |
| September | 29.426 | 29.605 | 29.276 | ..... | 56.3 | 60.8 | 51.5 | 56.2 | 83 | 48 | .... | 52 | .... | 87 | ..... | .389 | .84 | .49 | ..... | 2.9 | 5.7 |
| October | 29.522 | 29.649 | 29.240 | ..... | 56.4 | 61.4 | 52.2 | 56.8 | 85 | 48 | .... | 51 | .... | 84 | ..... | .370 | .90 | .41 | ..... | 5.5 | 6.3 |
| November | 29.566 | 29.822 | 29.288 | ..... | 52.5 | 55.7 | 49.2 | 52.4 | 67 | 44 | .... | 50 | .... | 92 | ..... | .366 | 2.73 | .69 | ..... | 3.4 | 5.5 |
| December | 29.451 | 29.776 | 29.047 | ..... | 49.6 | 54.1 | 45.1 | 49.6 | 68 | 40 | .... | 43 | .... | 80 | ..... | .280 | 3.50 | 1.09 | ..... | 5.7 | 5.8 |
| Year | 29.459 | 29.822 | 28.983 | ..... | 52.7 | 55.8 | 47.6 | 51.7 | 85 | 38 | .... | 48 | .... | 87 | ..... | .343 | 26.32 | 1.48 | ..... | 4.4 | 5.7 |

PORT CRESCENT, WASH.

[$\phi$=48° 8′ N.; $\lambda$=123° 41′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.508 | 30.260 | 28.843 | ..... | 32.5 | 35.8 | 25.4 | 30.6 | 55 | 7 | .... | 31 | .... | 93 | ..... | 0.180 | 8.17 | 2.22 | ..... | 8.4 | 8.0 |
| February | 29.565 | 29.882 | 29.135 | ..... | 41.6 | 44.1 | 32.8 | 38.4 | 55 | 27 | .... | 40 | .... | 93 | ..... | .245 | 5.03 | 1.49 | ..... | 8.1 | 7.0 |
| March | 29.735 | 30.151 | 29.235 | ..... | 45.1 | 47.3 | 32.5 | 39.9 | 54 | 29 | .... | 42 | .... | 88 | ..... | .265 | 2.49 | 1.02 | ..... | 6.4 | 6.1 |
| April | 29.927 | 30.238 | 29.638 | ..... | 48.0 | 50.5 | 34.1 | 42.3 | 57 | 27 | .... | 42 | .... | 80 | ..... | .266 | .33 | .19 | ..... | 5.4 | 5.0 |
| May | 29.803 | 29.999 | 29.360 | ..... | 51.2 | 53.9 | 39.0 | 46.4 | 66 | 30 | .... | 47 | .... | 86 | ..... | .322 | 1.76 | .86 | ..... | 6.8 | 5.5 |
| June | 29.831 | 30.030 | 29.432 | ..... | 55.8 | 59.5 | 43.0 | 51.2 | 72 | 35 | .... | 50 | .... | 81 | ..... | .356 | .92 | .40 | ..... | 4.3 | 4.9 |
| July | 29.828 | 30.021 | 29.519 | ..... | 56.8 | 60.3 | 47.5 | 53.9 | 71 | 39 | .... | 53 | .... | 86 | ..... | .397 | 1.55 | .60 | ..... | 5.6 | 5.4 |
| August | 29.824 | 29.976 | 29.545 | ..... | 57.4 | 61.0 | 45.4 | 53.2 | 71 | 38 | .... | 51 | .... | 80 | ..... | .377 | 1.34 | 1.08 | ..... | 4.2 | 4.8 |
| September | 29.804 | 30.082 | 29.417 | ..... | 55.9 | 59.7 | 43.2 | 51.4 | 78 | 31 | .... | 50 | .... | 81 | ..... | .362 | .68 | .31 | ..... | 4.9 | 5.0 |
| October | 29.769 | 30.046 | 29.288 | ..... | 50.3 | 53.4 | 39.7 | 46.6 | 63 | 31 | .... | 47 | .... | 88 | ..... | .320 | 3.08 | 1.23 | ..... | 7.7 | 6.7 |
| November | 29.615 | 30.086 | 29.066 | ..... | 43.4 | 47.7 | 35.6 | 41.6 | 58 | 23 | .... | 40 | .... | 89 | ..... | .252 | 15.37 | 4.11 | ..... | 8.4 | 7.5 |
| December | 29.781 | 30.344 | 28.848 | ..... | 36.6 | 40.5 | 30.2 | 35.4 | 52 | 22 | .... | 31 | .... | 81 | ..... | .177 | 4.83 | 2.25 | ..... | 7.4 | 6.7 |
| Year | 29.749 | 30.344 | 28.843 | ..... | 47.9 | 51.1 | 37.4 | 44.2 | 78 | 7 | .... | 44 | .... | 86 | ..... | .293 | 45.55 | 4.11 | ..... | 6.5 | 6.0 |

PORT HURON, MICH.

[$\phi$=43° 0′ N.; $\lambda$=82° 26′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.401 | 29.878 | 28.501 | 25.1 | 27.4 | 33.9 | 20.3 | 27.1 | 62 | 2 | 20 | 22 | 81 | 80 | 0.125 | 0.133 | 2.37 | 0.88 | 8.1 | 6.6 | 7.2 |
| February | 29.206 | 29.850 | 28.488 | 24.3 | 28.7 | 34.7 | 20.9 | 27.8 | 51 | − 2 | 19 | 24 | 80 | 81 | .109 | .133 | 3.29 | .74 | 8.5 | 7.0 | 7.6 |
| March | 29.192 | 29.740 | 28.614 | 28.2 | 31.7 | 36.7 | 24.6 | 30.6 | 47 | 12 | 23 | 25 | 80 | 75 | .127 | .137 | 1.54 | .63 | 6.5 | 6.2 | 6.7 |
| April | 29.251 | 29.783 | 28.699 | 38.6 | 40.8 | 50.4 | 32.4 | 41.4 | 71 | 19 | 32 | 33 | 78 | 75 | .188 | .197 | 4.39 | 1.78 | 6.3 | 7.4 | 7.1 |
| May | 29.224 | 29.588 | 28.860 | 50.8 | 52.9 | 62.1 | 44.5 | 53.3 | 80 | 31 | 43 | 44 | 77 | 73 | .290 | .299 | 2.41 | .89 | 6.4 | 6.7 | 6.2 |
| June | 29.306 | 29.541 | 28.995 | 62.1 | 65.9 | 73.4 | 55.8 | 64.6 | 88 | 44 | 54 | 56 | 77 | 71 | .440 | .459 | 1.47 | .34 | 6.1 | 6.2 | 6.2 |
| July | 29.266 | 29.647 | 28.893 | 66.9 | 71.4 | 77.6 | 58.9 | 68.2 | 91 | 48 | 58 | 57 | 72 | 62 | .485 | .478 | 1.25 | .55 | 4.1 | 4.8 | 5.2 |
| August | 29.343 | 29.636 | 28.983 | 66.5 | 70.6 | 78.3 | 60.5 | 69.4 | 94 | 48 | 58 | 59 | 76 | 68 | .500 | .509 | 2.23 | .67 | 5.3 | 4.7 | 5.4 |
| September | 29.407 | 29.726 | 28.976 | 56.3 | 61.5 | 69.0 | 50.7 | 59.8 | 88 | 35 | 51 | 53 | 81 | 74 | .385 | .408 | 1.90 | .93 | 4.7 | 5.3 | 6.6 |
| October | 29.370 | 29.898 | 28.803 | 41.3 | 47.7 | 54.3 | 37.5 | 45.9 | 78 | 25 | 37 | 38 | 84 | 70 | .227 | .240 | 1.81 | .56 | 4.4 | 5.0 | 6.0 |
| November | 29.437 | 29.907 | 28.809 | 40.0 | 43.8 | 50.7 | 35.8 | 43.2 | 68 | 19 | 35 | 38 | 82 | 79 | .216 | .241 | 3.39 | 1.80 | 6.5 | 4.7 | 6.5 |
| December | 29.229 | 29.686 | 28.559 | 22.0 | 23.9 | 28.9 | 18.2 | 23.6 | 55 | 1 | 18 | 19 | 83 | 81 | .102 | .112 | 1.86 | .41 | 8.0 | 7.4 | 8.5 |
| Year | 29.305 | 29.907 | 28.488 | 43.5 | 47.2 | 54.2 | 38.3 | 46.2 | 94 | − 2 | 37 | 39 | 79 | 74 | .266 | .279 | 27.82 | 1.80 | 6.2 | 6.0 | 6.6 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

## POCATELLO, IDAHO.

[H=4,477 ft.; $h_t$=46 ft.; $h_r$=37 ft.; $h_a$=54 ft.]

| Month. | Wind. | | | | | | | | | | | | | | Number of days. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | By self-register. | | | | | Number of winds, 8 a. m. and 8 p. m. | | | | | | | | | | | | Precipitation. | | | | | Maximum temp. | | | Electricity. | |
| | Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Clear. | Partly cloudy. | Cloudy. | 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | 32° or below. | 90° or above. | Minimum temperature 32° or below. | Thunderstorms. | Auroras. |
| | *Miles* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 11.0 | SE. | 44 | SW. | 1 | 1 | 0 | 2 | 31 | 8 | 14 | 4 | 2 | 0 | 7 | 5 | 19 | 19 | 14 | 10 | 0 | 0 | 7 | 0 | 16 | 1 | 0 |
| February | 12.7 | SE. | 36 | SW. | 0 | 0 | 0 | 3 | 26 | 7 | 16 | 3 | 1 | 0 | 0 | 15 | 13 | 11 | 10 | 9 | 0 | 0 | 3 | 0 | 24 | 0 | 0 |
| March | 8.7 | SE. | 30 | SW. | 0 | 1 | 0 | 2 | 29 | 9 | 14 | 6 | 1 | 0 | 9 | 9 | 13 | 10 | 9 | 5 | 0 | 0 | 1 | 0 | 21 | 0 | 0 |
| April | 11.0 | SW. | 44 | SW. | 2 | 1 | 1 | 1 | 17 | 1 | 21 | 13 | 5 | 0 | 12 | 9 | 9 | 8 | 6 | 5 | 0 | 0 | 0 | 0 | 16 | 0 | 0 |
| May | 9.6 | SW. | 53 | SW. | 1 | 2 | 0 | 6 | 14 | 3 | 22 | 13 | 2 | 0 | 11 | 10 | 10 | 9 | 8 | 1 | 0 | 0 | 0 | 0 | 4 | 3 | 0 |
| June | 7.6 | SE. | 30 | SW. | 0 | 3 | 0 | 9 | 29 | 1 | 8 | 8 | 2 | 0 | 11 | 16 | 3 | 4 | 4 | 0 | 1 | 0 | 0 | 2 | 0 | 2 | 0 |
| July | 8.2 | SE. | 38 | SW. | 0 | 0 | 2 | 6 | 21 | 7 | 11 | 12 | 3 | 0 | 20 | 10 | 1 | 6 | 5 | 0 | 1 | 0 | 0 | 12 | 0 | 5 | 0 |
| August | 8.1 | SE. | 36 | SW. | 0 | 0 | 0 | 10 | 31 | 2 | 9 | 8 | 2 | 0 | 17 | 9 | 5 | 9 | 7 | 0 | 1 | 0 | 0 | 9 | 0 | 8 | 0 |
| September | 7.8 | SE. | 36 | SW. | 0 | 0 | 1 | 4 | 23 | 7 | 15 | 8 | 2 | 0 | 10 | 12 | 8 | 10 | 7 | 0 | 1 | 0 | 0 | 0 | 1 | 6 | 0 |
| October | 8.5 | SE. | 40 | SW. | 1 | 1 | 0 | 4 | 21 | 5 | 18 | 9 | 4 | 0 | 11 | 19 | 1 | 8 | 6 | 1 | 0 | 0 | 0 | 0 | 7 | 0 | 0 |
| November | 9.2 | SE. | 34 | SW. | 0 | 1 | 0 | 6 | 27 | 5 | 12 | 5 | 4 | 0 | 6 | 8 | 16 | 13 | 9 | 5 | 0 | 0 | 2 | 0 | 15 | 0 | 0 |
| December | 7.6 | SE. | 36 | SE. | 0 | 3 | 0 | 8 | 20 | 0 | 7 | 13 | 11 | 0 | 1 | 11 | 19 | 11 | 6 | 10 | 0 | 0 | 23 | 0 | 30 | 0 | 0 |
| Year | 9.2 | SE. | 53 | SW. | 5 | 13 | 4 | 61 | 289 | 55 | 167 | 102 | 39 | 0 | 115 | 133 | 117 | 118 | 91 | 46 | 4 | 0 | 36 | 23 | 134 | 25 | 0 |

## POINT REYES LIGHT, CAL.

[H=490 ft.; $h_t$=7 ft.; $h_r$=3 ft.; $h_a$=18 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 26.7 | S. | 71 | S. | 22 | 0 | 0 | 1 | 3 | 20 | 2 | 1 | 4 | 0 | 2 | 3 | 26 | 26 | 23 | 0 | 2 | 11 | 0 | 0 | 0 | 2 | 0 |
| February | 23.6 | NW. | 82 | NW. | 15 | 1 | 0 | 0 | 1 | 7 | 4 | 3 | 12 | 0 | 5 | 9 | 14 | 21 | 18 | 0 | 3 | 6 | 0 | 0 | 0 | 0 | 0 |
| March | 19.8 | NW. | 79 | NW. | 11 | 0 | 1 | 0 | 0 | 6 | 1 | 0 | 23 | 0 | 10 | 10 | 11 | 11 | 10 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| April | 26.5 | NW. | 93 | NW. | 13 | 6 | 0 | 0 | 0 | 1 | 1 | 0 | 22 | 0 | 18 | 5 | 7 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| May | 30.5 | NW. | 76 | NW. | 16 | 2 | 0 | 0 | 1 | 1 | 1 | 1 | 25 | 0 | 12 | 12 | 7 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| June | 31.6 | NW. | 76 | NW. | 21 | 2 | 0 | 0 | 0 | 1 | 2 | 0 | 25 | 0 | 8 | 11 | 11 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 |
| July | 34.5 | NW. | 77 | NW. | 22 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 12 | 9 | 10 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 |
| August | 22.8 | NW. | 54 | NW. | 12 | 5 | 0 | 0 | 0 | 2 | 0 | 0 | 24 | 0 | 11 | 8 | 12 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 |
| September | 18.5 | NW. | 68 | NW. | 6 | 4 | 0 | 0 | 2 | 8 | 1 | 0 | 15 | 0 | 10 | 6 | 14 | 5 | 3 | 0 | 0 | 15 | 0 | 0 | 0 | 1 | 0 |
| October | 15.2 | NW. | 48 | NW. | 3 | 6 | 0 | 0 | 0 | 6 | 2 | 2 | 15 | 0 | 11 | 5 | 15 | 7 | 7 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| November | 18.9 | NW. | 62 | NW. | 7 | 5 | 1 | 0 | 0 | 8 | 3 | 1 | 12 | 0 | 11 | 5 | 14 | 13 | 11 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 |
| December | 19.1 | NW. | 78 | S. | 12 | 3 | 3 | 2 | 2 | 9 | 1 | 0 | 11 | 0 | 10 | 7 | 14 | 13 | 11 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| Year | 24.0 | NW. | 93 | NW. | 160 | 35 | 5 | 3 | 9 | 69 | 18 | 8 | 218 | 0 | 120 | 90 | 155 | 96 | 83 | 0 | 5 | 132 | 0 | 0 | 0 | 3 | 0 |

## FORT CRESCENT, WASH.

[H=259 ft.; $h_t$=8 ft.; $h_r$=4 ft.; $h_a$=53 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 8.4 | SE. | 40 | NE. | 2 | 0 | 6 | 3 | 10 | 5 | 4 | 2 | 1 | 0 | 0 | 12 | 19 | 28 | 24 | 15 | 0 | 0 | 10 | 0 | 21 | 0 | 0 |
| February | 4.7 | NE. | 20 | SW. | 0 | 1 | 8 | 3 | 6 | 4 | 1 | 2 | 3 | 0 | 2 | 16 | 10 | 20 | 16 | 1 | 1 | 0 | 0 | 0 | 16 | 0 | 0 |
| March | 5.4 | NE. | 19 | NE. | 0 | 1 | 12 | 1 | 3 | 1 | 1 | 8 | 4 | 0 | 6 | 13 | 12 | 15 | 12 | 0 | 1 | 0 | 0 | 0 | 21 | 0 | 0 |
| April | 5.9 | NW. | 16 | NW. | 0 | 2 | 4 | 1 | 1 | 0 | 2 | 6 | 14 | 0 | 8 | 18 | 4 | 5 | 3 | 0 | 1 | 0 | 0 | 0 | 12 | 0 | 0 |
| May | 5.2 | NW. | 17 | SW. | 0 | 1 | 3 | 0 | 0 | 0 | 3 | 2 | 22 | 0 | 6 | 21 | 4 | 15 | 9 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 0 |
| June | 5.3 | NW. | 17 | NW. | 0 | 3 | 0 | 0 | 0 | 0 | 2 | 2 | 23 | 0 | 10 | 15 | 5 | 9 | 6 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| July | 5.2 | NW. | 16 | W. | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 5 | 21 | 0 | 10 | 8 | 13 | 9 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| August | 4.9 | NW. | 17 | NW. | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 3 | 23 | 0 | 9 | 18 | 4 | 5 | 4 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| September | 4.5 | NW. | 16 | NW. | 0 | 1 | 2 | 2 | 2 | 1 | 3 | 6 | 13 | 0 | 10 | 13 | 7 | 8 | 6 | 0 | 0 | 8 | 0 | 0 | 1 | 0 | 0 |
| October | 4.8 | S. | 19 | SE. | 0 | 0 | 2 | 5 | 5 | 3 | 3 | 8 | 5 | 0 | 2 | 17 | 12 | 14 | 10 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| November | 5.7 | S. | 35 | S. | 0 | 1 | 4 | 3 | 4 | 11 | 1 | 5 | 1 | 0 | 3 | 8 | 19 | 23 | 20 | 1 | 0 | 0 | 0 | 0 | 7 | 0 | 1 |
| December | 7.1 | SE. | 40 | NE. | 1 | 1 | 2 | 3 | 14 | 6 | 4 | 0 | 1 | 0 | 4 | 12 | 15 | 13 | 10 | 3 | 0 | 1 | 1 | 0 | 20 | 0 | 0 |
| Year | 5.6 | NW. | 40 | NE. | 3 | 11 | 46 | 21 | 47 | 31 | 29 | 49 | 131 | 0 | 70 | 171 | 124 | 164 | 127 | 20 | 4 | 15 | 11 | 0 | 102 | 0 | 1 |

## PORT HURON, MICH.

[H=638 ft.; $h_t$=70 ft.; $h_r$=63 ft.; $h_a$=120 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 13.5 | NW. | 45 | W. | 2 | 6 | 2 | 3 | 5 | 11 | 13 | 8 | 13 | 1 | 8 | 3 | 20 | 11 | 9 | 6 | 0 | 2 | 15 | 0 | 26 | 1 | 0 |
| February | 14.1 | SW. | 46 | SW. | 1 | 4 | 8 | 1 | 3 | 9 | 13 | 7 | 11 | 0 | 5 | 6 | 17 | 13 | 11 | 7 | 0 | 3 | 11 | 0 | 26 | 0 | 0 |
| March | 12.2 | NW. | 37 | NW. | 0 | 7 | 8 | 4 | 3 | 5 | 7 | 10 | 18 | 0 | 7 | 8 | 16 | 12 | 8 | 7 | 0 | 0 | 6 | 0 | 29 | 0 | 0 |
| April | 13.6 | S. | 54 | W. | 5 | 7 | 9 | 4 | 9 | 10 | 6 | 10 | 5 | 0 | 5 | 9 | 16 | 14 | 13 | 4 | 1 | 3 | 2 | 0 | 14 | 5 | 0 |
| May | 11.2 | NE. | 42 | SW. | 2 | 9 | 17 | 3 | 4 | 6 | 12 | 5 | 5 | 1 | 6 | 12 | 13 | 11 | 9 | 1 | 0 | 3 | 0 | 0 | 2 | 3 | 0 |
| June | 8.6 | SW. | 28 | N. | 0 | 16 | 8 | 4 | 3 | 3 | 17 | 5 | 4 | 0 | 6 | 12 | 12 | 10 | 8 | 0 | 0 | 2 | 0 | 0 | 0 | 6 | 0 |
| July | 9.9 | SW. | 46 | N. | 1 | 11 | 12 | 0 | 2 | 10 | 15 | 6 | 6 | 0 | 9 | 14 | 8 | 7 | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 6 | 0 |
| August | 9.0 | NE. | 36 | NW. | 0 | 10 | 12 | 3 | 8 | 9 | 8 | 5 | 7 | 0 | 12 | 8 | 11 | 9 | 5 | 0 | 0 | 0 | 0 | 2 | 0 | 5 | 0 |
| September | 10.5 | SW. | 31 | NE. | 0 | 8 | 6 | 5 | 6 | 11 | 10 | 6 | 8 | 0 | 9 | 5 | 16 | 10 | 6 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 1 |
| October | 11.4 | SW. | 42 | W. | 1 | 2 | 7 | 1 | 7 | 9 | 11 | 15 | 10 | 0 | 11 | 6 | 14 | 10 | 7 | 1 | 0 | 3 | 0 | 0 | 10 | 0 | 1 |
| November | 13.1 | S. | 41 | W. | 3 | 6 | 8 | 4 | 10 | 10 | 10 | 7 | 5 | 0 | 7 | 8 | 15 | 11 | 7 | 22 | 0 | 0 | 1 | 0 | 11 | 1 | 0 |
| December | 13.5 | SW. | 50 | SW. | 2 | 0 | 1 | 8 | 5 | 5 | 20 | 16 | 7 | 0 | 2 | 4 | 25 | 16 | 8 | 14 | 0 | 3 | 23 | 0 | 30 | 0 | 0 |
| Year | 11.7 | SW. | 54 | W. | 17 | 86 | 98 | 40 | 65 | 98 | 142 | 100 | 99 | 2 | 87 | 95 | 183 | 134 | 96 | 42 | 1 | 20 | 58 | 3 | 148 | 29 | 2 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

PORTLAND, ME.

[$\phi$=43° 39′ N.; $\lambda$=70° 15′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.994 | 30.728 | 28.975 | 20.3 | 24.1 | 30.7 | 15.4 | 23.0 | 54 | − 4 | 15 | 16 | 77 | 72 | 0.101 | 0.103 | 4.71 | 1.34 | 6.5 | 7.4 | 6.5 |
| February | 29.792 | 30.416 | 28.712 | 20.9 | 27.0 | 33.2 | 17.1 | 25.2 | 50 | 1 | 14 | 19 | 75 | 72 | .095 | .111 | 5.07 | 1.33 | 5.5 | 4.1 | 5.0 |
| March | 29.640 | 30.114 | 29.003 | 28.8 | 32.9 | 38.2 | 25.0 | 31.6 | 48 | 10 | 21 | 23 | 72 | 67 | .118 | .128 | 2.76 | 1.07 | 5.1 | 4.6 | 5.0 |
| April | 29.920 | 30.474 | 29.320 | 39.7 | 41.2 | 47.1 | 34.5 | 40.8 | 63 | 22 | 32 | 32 | 74 | 72 | .183 | .187 | 3.13 | 1.21 | 5.9 | 4.3 | 5.8 |
| May | 29.823 | 30.217 | 29.444 | 50.5 | 50.9 | 58.5 | 44.4 | 51.4 | 74 | 31 | 41 | 41 | 72 | 72 | .258 | .260 | 2.95 | 1.10 | 6.6 | 5.4 | 6.4 |
| June | 29.822 | 30.158 | 29.496 | 63.8 | 65.1 | 73.9 | 56.0 | 65.0 | 93 | 44 | 53 | 52 | 69 | 65 | .418 | .407 | 2.33 | 1.27 | 5.2 | 5.1 | 5.0 |
| July | 29.770 | 30.154 | 29.330 | 65.2 | 66.1 | 74.9 | 58.0 | 66.4 | 91 | 50 | 56 | 55 | 72 | 68 | .450 | .436 | 2.14 | .93 | 4.7 | 4.1 | 4.7 |
| August | 29.884 | 30.279 | 29.340 | 64.8 | 66.1 | 74.4 | 57.9 | 66.2 | 94 | 45 | 54 | 56 | 70 | 73 | .427 | .461 | 1.68 | 1.12 | 4.7 | 4.2 | 4.3 |
| September | 29.991 | 30.430 | 29.617 | 56.4 | 58.2 | 66.4 | 51.3 | 58.8 | 78 | 41 | 50 | 52 | 82 | 82 | .375 | .398 | 4.68 | 1.50 | 4.8 | 3.2 | 5.3 |
| October | 29.859 | 30.360 | 29.456 | 46.1 | 50.2 | 56.9 | 42.2 | 49.6 | 81 | 29 | 38 | 41 | 74 | 72 | .241 | .271 | 1.50 | .43 | 5.9 | 4.3 | 5.0 |
| November | 30.018 | 30.611 | 29.411 | 38.4 | 41.4 | 47.9 | 34.1 | 41.0 | 66 | 22 | 31 | 34 | 74 | 76 | .185 | .208 | 2.83 | 1.33 | 4.8 | 4.5 | 6.1 |
| December | 29.699 | 30.488 | 29.042 | 24.2 | 27.2 | 33.3 | 21.1 | 27.2 | 48 | − 1 | 17 | 18 | 72 | 67 | .100 | .103 | 2.06 | .79 | 5.7 | 3.4 | 4.5 |
| Year | 29.851 | 30.728 | 28.712 | 43.3 | 45.9 | 53.0 | 38.1 | 45.5 | 94 | − 4 | 35 | 37 | 74 | 72 | .246 | .256 | 35.84 | 1.50 | 5.4 | 4.6 | 5.3 |

PORTLAND, OREG.

[$\phi$=45° 32/N.; $\lambda$=122° 41′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.696 | 30.351 | 28.930 | 31.2 | 33.8 | 38.0 | 27.6 | 32.8 | 59 | 6 | 27 | 30 | 86 | 87 | 0.166 | 0.181 | 9.29 | 1.68 | 7.7 | 8.1 | 8.4 |
| February | 29.749 | 30.089 | 29.347 | 41.6 | 45.0 | 48.2 | 38.4 | 43.3 | 60 | 33 | 37 | 38 | 85 | 79 | .226 | .235 | 7.03 | .89 | 8.9 | 8.8 | 8.2 |
| March | 29.867 | 30.234 | 29.363 | 42.0 | 53.3 | 55.2 | 40.0 | 47.6 | 70 | 34 | 38 | 38 | 84 | 58 | .226 | .227 | 2.35 | .42 | 6.7 | 5.7 | 6.0 |
| April | 30.052 | 30.351 | 29.772 | 43.3 | 58.2 | 60.0 | 42.1 | 51.0 | 78 | 36 | 38 | 39 | 82 | 51 | .231 | .240 | .89 | .42 | 7.4 | 5.0 | 5.7 |
| May | 29.910 | 30.222 | 29.571 | 46.5 | 62.4 | 64.3 | 45.4 | 54.8 | 86 | 37 | 42 | 42 | 85 | 50 | .269 | .275 | 1.79 | .48 | 6.3 | 5.8 | 5.8 |
| June | 29.898 | 30.162 | 29.566 | 53.2 | 71.6 | 73.1 | 52.3 | 62.7 | 90 | 43 | 47 | 47 | 80 | 44 | .323 | .328 | .17 | .08 | 5.6 | 4.1 | 4.5 |
| July | 29.898 | 30.098 | 29.541 | 55.4 | 71.5 | 73.2 | 54.6 | 63.9 | 88 | 47 | 50 | 54 | 82 | 56 | .360 | .418 | 2.26 | 1.06 | 6.1 | 4.6 | 4.6 |
| August | 29.871 | 30.093 | 29.571 | 54.9 | 75.5 | 76.7 | 53.2 | 65.0 | 91 | 46 | 49 | 52 | 81 | 46 | .349 | .399 | .05 | .05 | 3.5 | 2.3 | 2.7 |
| September | 29.888 | 30.199 | 29.544 | 54.6 | 70.8 | 73.8 | 52.7 | 63.2 | 93 | 41 | 50 | 56 | 86 | 61 | .367 | .451 | .95 | .43 | 4.2 | 3.9 | 4.3 |
| October | 29.899 | 30.196 | 29.448 | 48.9 | 59.1 | 62.4 | 46.8 | 54.6 | 80 | 40 | 46 | 52 | 91 | 77 | .314 | .393 | 2.01 | .51 | 5.7 | 5.4 | 5.9 |
| November | 29.836 | 30.252 | 29.280 | 45.9 | 48.4 | 52.3 | 42.0 | 47.2 | 63 | 28 | 42 | 42 | 84 | 79 | .274 | .274 | 12.49 | 2.33 | 7.3 | 8.5 | 8.4 |
| December | 29.943 | 30.401 | 29.137 | 33.1 | 37.3 | 40.4 | 30.8 | 35.6 | 58 | 24 | 30 | 31 | 87 | 79 | .165 | .176 | 4.47 | 1.29 | 6.4 | 5.8 | 6.3 |
| Year | 29.876 | 30.401 | 28.930 | 45.9 | 57.2 | 59.8 | 43.8 | 51.8 | 93 | 6 | 41 | 43 | 84 | 64 | .272 | .300 | 43.75 | 2.33 | 6.3 | 5.7 | 5.9 |

PROVIDENCE, R. I.

[$\phi$=41° 50′ N.; $\lambda$=71° 25′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.952 | 30.557 | 28.900 | 27.4 | 30.8 | 37.5 | 21.7 | 29.6 | 59 | 3 | 21 | 22 | 78 | 70 | 0.132 | 0.131 | 3.06 | 0.90 | 7.2 | 6.5 | 7.1 |
| February | 29.775 | 30.293 | 28.856 | 29.6 | 33.5 | 41.4 | 24.2 | 32.8 | 58 | 3 | 21 | 25 | 69 | 70 | .132 | .144 | 5.80 | 1.71 | 6.2 | 4.2 | 5.9 |
| March | 29.623 | 30.199 | 28.798 | 32.4 | 37.0 | 42.6 | 28.2 | 35.4 | 57 | 18 | 23 | 24 | 67 | 61 | .127 | .139 | 2.86 | 1.56 | 4.8 | 4.7 | 5.6 |
| April | 29.894 | 30.487 | 29.387 | 43.7 | 46.2 | 55.2 | 37.0 | 46.1 | 78 | 22 | 35 | 35 | 72 | 68 | .213 | .221 | 5.07 | 1.79 | 5.4 | 5.1 | 5.3 |
| May | 29.773 | 30.125 | 29.362 | 54.0 | 55.9 | 66.0 | 46.7 | 56.4 | 84 | 38 | 43 | 43 | 71 | 66 | .291 | .286 | 2.09 | .39 | 6.1 | 5.6 | 5.7 |
| June | 29.805 | 30.111 | 29.544 | 66.2 | 68.0 | 76.8 | 58.1 | 67.4 | 92 | 44 | 54 | 56 | 68 | 68 | .439 | .468 | 1.61 | .70 | 5.3 | 5.8 | 5.1 |
| July | 29.758 | 30.090 | 29.355 | 69.1 | 69.5 | 79.8 | 60.5 | 70.2 | 94 | 51 | 57 | 57 | 68 | 66 | .484 | .482 | .58 | .31 | 3.9 | 5.0 | 4.4 |
| August | 29.852 | 30.223 | 29.263 | 66.4 | 69.5 | 78.5 | 58.9 | 68.7 | 95 | 47 | 57 | 56 | 72 | 64 | .467 | .463 | 2.50 | 1.48 | 4.9 | 5.2 | 5.2 |
| September | 29.949 | 30.348 | 29.615 | 59.7 | 61.6 | 71.5 | 52.5 | 62.0 | 81 | 42 | 55 | 55 | 84 | 80 | .443 | .440 | 3.28 | .92 | 6.3 | 4.5 | 5.6 |
| October | 29.846 | 30.348 | 29.480 | 47.0 | 51.2 | 60.3 | 42.2 | 51.2 | 80 | 29 | 38 | 40 | 73 | 66 | .251 | .265 | 1.25 | .36 | 3.1 | 3.6 | 4.3 |
| November | 29.971 | 30.563 | 29.390 | 42.4 | 45.1 | 53.5 | 36.8 | 45.2 | 75 | 24 | 36 | 36 | 77 | 73 | .226 | .228 | 2.95 | 1.66 | 6.3 | 3.9 | 5.8 |
| December | 29.680 | 30.344 | 28.759 | 25.7 | 29.5 | 36.2 | 22.7 | 29.4 | 54 | 1 | 19 | 20 | 74 | 65 | .109 | .111 | 2.70 | 1.31 | 4.3 | 3.4 | 4.7 |
| Year | 29.823 | 30.563 | 28.759 | 47.0 | 49.8 | 58.3 | 40.8 | 49.5 | 95 | 1 | 38 | 39 | 73 | 68 | .276 | .282 | 33.75 | 1.79 | 5.3 | 4.8 | 5.4 |

PUEBLO, COLO.

[$\phi$=38° 18′ N.; $\lambda$=104° 36′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 25.236 | 25.663 | 24.775 | 28.9 | 40.1 | 50.4 | 20.4 | 35.4 | 69 | −11 | 16 | 19 | 60 | 46 | 0.092 | 0.109 | 0.24 | 0.21 | 3.8 | 3.5 | 4.5 |
| February | 25.155 | 25.601 | 24.729 | 26.1 | 41.8 | 50.1 | 19.4 | 34.8 | 70 | − 8 | 11 | 17 | 54 | 40 | .072 | .098 | .63 | .40 | 2.6 | 3.8 | 2.9 |
| March | 25.180 | 25.515 | 24.756 | 30.3 | 47.4 | 52.8 | 26.5 | 39.6 | 71 | − 6 | 22 | 22 | 72 | 44 | .121 | .125 | .79 | .27 | 5.1 | 4.7 | 4.5 |
| April | 25.200 | 25.770 | 24.760 | 36.8 | 54.7 | 60.2 | 32.5 | 46.4 | 81 | 17 | 26 | 27 | 70 | 42 | .142 | .151 | 1.52 | .63 | 4.3 | 4.9 | 4.3 |
| May | 25.172 | 25.436 | 24.825 | 44.8 | 65.5 | 70.3 | 43.1 | 56.7 | 86 | 23 | 34 | 31 | 67 | 34 | .199 | .183 | 1.15 | .67 | 4.1 | 5.3 | 4.3 |
| June | 25.303 | 25.486 | 25.086 | 57.4 | 78.5 | 83.8 | 55.8 | 69.8 | 96 | 46 | 48 | 47 | 72 | 40 | .338 | .331 | 1.78 | .53 | 3.0 | 5.6 | 3.6 |
| July | 25.316 | 25.630 | 25.044 | 63.4 | 83.4 | 89.7 | 62.4 | 76.0 | 102 | 56 | 54 | 52 | 72 | 37 | .420 | .390 | 1.21 | .41 | 2.2 | 4.7 | 3.1 |
| August | 25.361 | 25.633 | 25.197 | 63.3 | 80.6 | 87.2 | 62.4 | 74.8 | 96 | 56 | 53 | 53 | 71 | 41 | .409 | .402 | .77 | .61 | 3.7 | 7.1 | 4.5 |
| September | 25.380 | 25.675 | 24.987 | 50.6 | 69.5 | 76.3 | 48.9 | 62.6 | 92 | 36 | 46 | 53 | 86 | 58 | .321 | .408 | 3.93 | 2.10 | 2.4 | 3.4 | 2.6 |
| October | 25.343 | 25.742 | 24.983 | 39.7 | 59.1 | 67.6 | 36.8 | 52.2 | 82 | 26 | 31 | 35 | 72 | 44 | .177 | .218 | .25 | .17 | 3.5 | 3.4 | 3.5 |
| November | 25.299 | 25.741 | 24.985 | 33.5 | 46.9 | 56.6 | 29.8 | 43.2 | 78 | 10 | 24 | 29 | 69 | 56 | .127 | .160 | 1.53 | .54 | 4.8 | 4.5 | 4.8 |
| December | 25.234 | 25.530 | 24.841 | 14.1 | 24.1 | 32.3 | 8.2 | 20.2 | 61 | −16 | 9 | 16 | 80 | 72 | .070 | .095 | .72 | .40 | 3.0 | 1.8 | 3.5 |
| Year | 25.265 | 25.770 | 24.729 | 40.7 | 57.5 | 64.8 | 37.2 | 51.0 | 102 | −16 | 31 | 33 | 70 | 46 | .207 | .222 | 14.52 | 2.10 | 3.5 | 4.4 | 3.8 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

PORTLAND, ME.

[H=103 ft.; $h_t$=81 ft.; $h_r$=75 ft.; $h_a$=117 ft.]

| Month. | Wind. | | | | | | | | | | | | | | Number of days. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | By self-register. | | | | | Number of winds, 8 a. m. and 8 p. m. | | | | | | | | | | | | Precipitation. | | | | | Maximum temp. | | Minimum temperature 32° or below. | Electricity. | |
| | Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Clear. | Partly cloudy. | Cloudy. | 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | 32° or below. | 90° or above. | | Thunderstorms. | Auroras. |
| | *Miles* | | *Mi* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 11.2 | NW. | 35 | NW. | 0 | 20 | 2 | 0 | 0 | 4 | 14 | 7 | 15 | 0 | 8 | 9 | 14 | 11 | 10 | 7 | 0 | 1 | 19 | 0 | 28 | 0 | 0 |
| February | 10.3 | NW. | 46 | S. | 3 | 11 | 2 | 4 | 2 | 5 | 8 | 15 | 9 | 0 | 11 | 7 | 10 | 10 | 7 | 5 | 0 | 0 | 12 | 0 | 25 | 0 | 0 |
| March | 10.8 | NW. | 56 | E. | 3 | 8 | 2 | 2 | 2 | 7 | 7 | 16 | 18 | 0 | 13 | 9 | 9 | 12 | 11 | 6 | 0 | 1 | 5 | 0 | 26 | 0 | 1 |
| April | 11.0 | S. | 42 | NW. | 2 | 8 | 6 | 1 | 2 | 16 | 5 | 8 | 14 | 0 | 9 | 9 | 12 | 12 | 10 | 0 | 0 | 1 | 0 | 0 | 12 | 1 | 0 |
| May | 9.2 | E. | 36 | NW. | 0 | 10 | 6 | 11 | 5 | 13 | 4 | 4 | 9 | 0 | 6 | 10 | 15 | 15 | 10 | 0 | 0 | 3 | 0 | 0 | 1 | 1 | 0 |
| June | 8.7 | S. | 36 | NW. | 0 | 8 | 6 | 2 | 1 | 12 | 13 | 12 | 4 | 2 | 8 | 15 | 7 | 9 | 7 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| July | 8.9 | S. | 39 | NW. | 0 | 4 | 2 | 1 | 5 | 15 | 9 | 14 | 12 | 0 | 13 | 13 | 5 | 11 | 8 | 0 | 1 | 2 | 0 | 1 | 0 | 3 | 0 |
| August | 8.3 | NW. | 32 | NW. | 0 | 8 | 5 | 2 | 5 | 11 | 8 | 10 | 12 | 1 | 16 | 7 | 8 | 6 | 6 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| September | 8.0 | S. | 30 | S. | 0 | 14 | 3 | 6 | 9 | 11 | 7 | 3 | 6 | 1 | 8 | 12 | 10 | 12 | 10 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| October | 8.5 | W. | 34 | NW. | 0 | 9 | 1 | 2 | 2 | 3 | 13 | 18 | 13 | 1 | 11 | 10 | 10 | 10 | 7 | 0 | 0 | 2 | 0 | 0 | 5 | 0 | 0 |
| November | 9.4 | N. | 35 | N. | 0 | 14 | 2 | 3 | 3 | 8 | 13 | 6 | 10 | 1 | 7 | 11 | 12 | 9 | 8 | 1 | 0 | 4 | 0 | 0 | 10 | 0 | 0 |
| December | 10.7 | NW. | 54 | SE. | 3 | 11 | 1 | 0 | 3 | 0 | 9 | 18 | 19 | 1 | 15 | 7 | 9 | 6 | 5 | 3 | 0 | 0 | 13 | 0 | 26 | 0 | 0 |
| Year | 9.6 | NW. | 56 | E. | 11 | 125 | 38 | 34 | 39 | 105 | 110 | 131 | 141 | 7 | 125 | 119 | 121 | 123 | 99 | 22 | 1 | 21 | 49 | 5 | 133 | 9 | 1 |

PORTLAND, OREG.

[H=153 ft.; $h_t$=68 ft.; $h_r$=63 ft.; $h_a$=106 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 7.7 | E. | 36 | S. | 0 | 3 | 6 | 20 | 13 | 5 | 8 | 2 | 5 | 0 | 3 | 4 | 24 | 23 | 21 | 8 | 0 | 4 | 9 | 0 | 15 | 0 | 0 |
| February | 8.1 | SW. | 32 | S. | 0 | 1 | 1 | 4 | 10 | 14 | 15 | 3 | 8 | 0 | 0 | 8 | 20 | 23 | 20 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 6.2 | NW. | 32 | SW. | 0 | 3 | 2 | 4 | 10 | 13 | 8 | 4 | 17 | 1 | 11 | 4 | 16 | 14 | 11 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| April | 6.0 | NW. | 25 | NW. | 0 | 3 | 2 | 0 | 1 | 9 | 8 | 11 | 25 | 1 | 7 | 12 | 11 | 7 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 6.1 | NW. | 24 | W. | 0 | 6 | 2 | 0 | 5 | 11 | 10 | 9 | 19 | 0 | 8 | 12 | 11 | 14 | 10 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 6.3 | NW. | 25 | S. | 0 | 9 | 1 | 2 | 4 | 8 | 3 | 3 | 30 | 0 | 12 | 11 | 7 | 5 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| July | 5.9 | NW. | 18 | S. | 0 | 12 | 0 | 2 | 7 | 6 | 8 | 2 | 25 | 0 | 12 | 11 | 8 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 6.2 | NW. | 26 | E. | 0 | 14 | 0 | 2 | 5 | 7 | 3 | 2 | 29 | 0 | 19 | 11 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| September | 5.5 | NW. | 24 | S. | 0 | 5 | 1 | 3 | 4 | 9 | 4 | 5 | 28 | 1 | 14 | 9 | 7 | 8 | 6 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 |
| October | 5.3 | NW. | 24 | SW. | 0 | 5 | 2 | 2 | 7 | 18 | 4 | 2 | 22 | 0 | 8 | 10 | 13 | 10 | 9 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 |
| November | 7.8 | S. | 39 | SW. | 0 | 4 | 2 | 7 | 8 | 27 | 9 | 1 | 2 | 0 | 2 | 6 | 22 | 24 | 21 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 |
| December | 7.1 | E. | 33 | E. | 0 | 6 | 6 | 17 | 9 | 3 | 6 | 2 | 13 | 0 | 11 | 5 | 15 | 11 | 10 | 5 | 0 | 3 | 3 | 0 | 21 | 0 | 0 |
| Year | 6.5 | NW. | 39 | SW. | 0 | 71 | 25 | 63 | 83 | 130 | 86 | 46 | 223 | 3 | 107 | 103 | 155 | 147 | 122 | 13 | 6 | 13 | 12 | 4 | 39 | 1 | 0 |

PROVIDENCE, R. I.

[H=160 ft.; $h_t$=141 ft.; $h_r$=134 ft.; $h_a$=165 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 10.9 | N. | 41 | NW. | 1 | 19 | 1 | 1 | 7 | 4 | 7 | 6 | 17 | 0 | 4 | 10 | 17 | 16 | 12 | 7 | 0 | 3 | 10 | 0 | 24 | 0 | 0 |
| February | 12.7 | NW. | 60 | NW. | 4 | 8 | 3 | 2 | 8 | 5 | 5 | 10 | 15 | 0 | 7 | 12 | 9 | 13 | 12 | 4 | 0 | 1 | 4 | 0 | 21 | 0 | 0 |
| March | 13.7 | NW. | 48 | SE. | 3 | 4 | 3 | 0 | 8 | 1 | 6 | 11 | 29 | 0 | 11 | 10 | 10 | 13 | 8 | 7 | 0 | 1 | 1 | 0 | 23 | 0 | 1 |
| April | 12.4 | NW. | 50 | NW. | 1 | 6 | 10 | 2 | 12 | 12 | 1 | 2 | 15 | 0 | 8 | 13 | 9 | 15 | 13 | 2 | 0 | 1 | 0 | 0 | 7 | 1 | 0 |
| May | 10.6 | NW. | 36 | NW. | 0 | 7 | 11 | 6 | 12 | 3 | 5 | 5 | 13 | 0 | 9 | 11 | 11 | 15 | 11 | 0 | 0 | 3 | 0 | 0 | 0 | 3 | 1 |
| June | 9.5 | NW. | 41 | NW. | 1 | 5 | 6 | 5 | 11 | 5 | 12 | 6 | 10 | 0 | 7 | 19 | 4 | 9 | 8 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 |
| July | 10.2 | NW. | 40 | NW. | 1 | 5 | 3 | 3 | 8 | 9 | 16 | 3 | 15 | 0 | 14 | 13 | 4 | 5 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 0 |
| August | 8.5 | NW. | 29 | NW. | 0 | 15 | 7 | 7 | 3 | 6 | 6 | 9 | 9 | 0 | 11 | 12 | 8 | 7 | 5 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 0 |
| September | 8.4 | N. | 40 | NW. | 1 | 11 | 8 | 6 | 3 | 11 | 5 | 5 | 11 | 0 | 9 | 9 | 12 | 11 | 9 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| October | 9.6 | NW. | 40 | NW. | 1 | 7 | 2 | 2 | 8 | 3 | 6 | 14 | 20 | 0 | 12 | 17 | 2 | 8 | 6 | 0 | 0 | 1 | 0 | 0 | 4 | 0 | 2 |
| November | 10.8 | N. | 36 | NE. | 0 | 14 | 5 | 1 | 8 | 4 | 10 | 5 | 13 | 0 | 8 | 11 | 11 | 8 | 7 | 0 | 0 | 1 | 0 | 0 | 11 | 0 | 0 |
| December | 12.6 | NW. | 40 | SE. | 1 | 8 | 3 | 0 | 3 | 0 | 3 | 12 | 33 | 0 | 14 | 11 | 6 | 6 | 5 | 3 | 0 | 0 | 0 | 0 | 27 | 0 | 0 |
| Year | 10.8 | NW. | 60 | NW. | 14 | 109 | 62 | 35 | 91 | 63 | 82 | 88 | 200 | 0 | 114 | 148 | 103 | 126 | 99 | 23 | 0 | 12 | 24 | 7 | 117 | 10 | 4 |

PUEBLO, COLO.

[H=4,685 ft.; $h_t$=80 ft.; $h_r$=72 ft.; $h_a$=86 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 8.2 | NW. | 48 | W. | 1 | 5 | 1 | 6 | 20 | 1 | 4 | 15 | 10 | 0 | 11 | 15 | 5 | 5 | 2 | 4 | 0 | 0 | 4 | 0 | 27 | 0 | 0 |
| February | 9.0 | NW. | 49 | W. | 4 | 6 | 6 | 3 | 7 | 0 | 5 | 6 | 23 | 0 | 18 | 7 | 3 | 4 | 4 | 4 | 0 | 0 | 2 | 0 | 25 | 0 | 0 |
| March | 8.3 | SE. | 50 | W. | 3 | 3 | 6 | 9 | 16 | 0 | 3 | 9 | 15 | 1 | 13 | 12 | 6 | 8 | 5 | 4 | 1 | 0 | 2 | 0 | 23 | 1 | 0 |
| April | 9.1 | SE. | 43 | W. | 1 | 3 | 5 | 10 | 9 | 2 | 3 | 15 | 12 | 1 | 12 | 13 | 5 | 10 | 8 | 10 | 0 | 0 | 0 | 0 | 15 | 0 | 0 |
| May | 7.8 | SE. | 44 | W. | 1 | 13 | 4 | 6 | 10 | 2 | 5 | 10 | 12 | 0 | 16 | 9 | 6 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 |
| June | 6.6 | SE. | 37 | NE. | 0 | 13 | 3 | 7 | 15 | 0 | 2 | 4 | 16 | 0 | 15 | 11 | 4 | 10 | 8 | 0 | 3 | 0 | 0 | 10 | 0 | 15 | 0 |
| July | 6.5 | SE. | 37 | SE. | 0 | 10 | 3 | 5 | 17 | 1 | 0 | 9 | 16 | 1 | 17 | 12 | 2 | 7 | 7 | 0 | 0 | 0 | 0 | 18 | 0 | 10 | 0 |
| August | 6.5 | SE. | 34 | N. | 0 | 6 | 2 | 4 | 19 | 1 | 1 | 6 | 22 | 1 | 11 | 16 | 4 | 6 | 2 | 0 | 0 | 0 | 0 | 12 | 0 | 10 | 0 |
| September | 5.6 | NW. | 31 | NE. | 0 | 5 | 4 | 9 | 16 | 0 | 3 | 6 | 17 | 0 | 23 | 3 | 4 | 7 | 7 | 0 | 0 | 0 | 0 | 1 | 0 | 6 | 0 |
| October | 6.5 | NW. | 42 | NE. | 1 | 13 | 5 | 6 | 12 | 0 | 4 | 9 | 13 | 0 | 18 | 8 | 5 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | 0 |
| November | 6.7 | NW. | 43 | NE. | 1 | 9 | 5 | 11 | 10 | 0 | 1 | 10 | 14 | 0 | 11 | 11 | 8 | 6 | 6 | 6 | 0 | 0 | 2 | 0 | 18 | 0 | 0 |
| December | 5.5 | NW. | 38 | NW. | 0 | 7 | 5 | 6 | 7 | 0 | 0 | 17 | 20 | 0 | 16 | 12 | 3 | 8 | 5 | 8 | 0 | 0 | 16 | 0 | 30 | 0 | 0 |
| Year | 7.2 | NW. | 50 | W. | 12 | 93 | 49 | 82 | 158 | 7 | 31 | 116 | 190 | 4 | 181 | 129 | 55 | 79 | 61 | 36 | 4 | 0 | 26 | 41 | 149 | 48 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

RALEIGH, N. C.

[$\phi$=35° 45′ N.; $\lambda$=78° 37′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.760 | 30.090 | 28.874 | 39.1 | 47.5 | 55.8 | 36.2 | 46.0 | 76 | 16 | 33 | 36 | 79 | 65 | 0.207 | 0.234 | 1.90 | 1.00 | 5.8 | 3.8 | 5.7 |
| February | 29.636 | 30.090 | 29.074 | 43.2 | 53.0 | 60.5 | 39.3 | 49.9 | 73 | 18 | 33 | 34 | 68 | 52 | .222 | .229 | 3.14 | .85 | 4.5 | 3.4 | 4.7 |
| March | 29.514 | 29.974 | 29.823 | 42.9 | 52.3 | 58.6 | 39.1 | 48.8 | 78 | 31 | 34 | 34 | 71 | 52 | .208 | .210 | 2.77 | .74 | 4.7 | 3.3 | 5.3 |
| April | 29.679 | 30.213 | 29.371 | 55.0 | 63.6 | 71.9 | 50.4 | 61.2 | 87 | 32 | 46 | 46 | 74 | 57 | .342 | .337 | 4.08 | 3.31 | 4.4 | 3.8 | 4.9 |
| May | 29.560 | 29.861 | 29.249 | 62.8 | 69.9 | 77.3 | 57.2 | 67.2 | 88 | 43 | 53 | 53 | 72 | 58 | .420 | .419 | 2.92 | .98 | 4.3 | 4.3 | 4.9 |
| June | 29.617 | 29.909 | 29.274 | 73.5 | 76.9 | 86.6 | 68.2 | 77.4 | 94 | 62 | 67 | 68 | 82 | 74 | .676 | .677 | 5.73 | 2.74 | 4.5 | 5.6 | 5.7 |
| July | 29.600 | 29.891 | 29.246 | 71.5 | 76.7 | 84.9 | 66.4 | 75.6 | 93 | 60 | 63 | 64 | 77 | 68 | .597 | .623 | 6.84 | 2.39 | 4.6 | 3.7 | 4.8 |
| August | 29.623 | 29.895 | 29.170 | 70.3 | 76.4 | 84.3 | 66.6 | 75.4 | 95 | 58 | 65 | 66 | 84 | 71 | .624 | .638 | 4.40 | 2.19 | 4.9 | 4.2 | 5.0 |
| September | 29.691 | 29.909 | 29.483 | 63.2 | 69.2 | 77.5 | 59.9 | 68.7 | 88 | 46 | 58 | 58 | 84 | 69 | .506 | .507 | 4.52 | 1.16 | 6.3 | 3.7 | 5.9 |
| October | 29.730 | 30.118 | 29.273 | 50.9 | 60.8 | 69.4 | 47.3 | 58.4 | 80 | 34 | 42 | 43 | 71 | 54 | .278 | .295 | 1.52 | .68 | 2.2 | 1.5 | 2.6 |
| November | 29.821 | 30.194 | 29.254 | 48.4 | 57.0 | 65.5 | 45.2 | 55.4 | 76 | 30 | 40 | 40 | 75 | 57 | .275 | .281 | .11 | .06 | 4.3 | 2.4 | 4.4 |
| December | 29.615 | 30.012 | 29.026 | 33.3 | 41.3 | 48.2 | 30.5 | 39.4 | 69 | 12 | 25 | 23 | 69 | 46 | .143 | .135 | 1.89 | 1.30 | 4.0 | 1.8 | 3.9 |
| Year | 29.654 | 30.213 | 28.823 | 54.5 | 62.0 | 70.0 | 50.5 | 60.3 | 95 | 12 | 47 | 47 | 76 | 60 | .375 | .382 | 39.82 | 3.31 | 4.5 | 3.5 | 4.8 |

RAPID CITY, S. DAK.

[$\phi$=44° 4′ N.; $\lambda$=103° 12′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 26.541 | 27.087 | 25.968 | 15.5 | 23.0 | 33.9 | 9.4 | 21.6 | 60 | −18 | 8 | 12 | 75 | 68 | 0.070 | 0.087 | 0.10 | 0.07 | 4.4 | 5.0 | 5.8 |
| February | 26.485 | 27.088 | 26.090 | 23.3 | 27.7 | 37.2 | 15.6 | 25.4 | 69 | −12 | 12 | 15 | 67 | 62 | .080 | .089 | .31 | .17 | 5.5 | 5.8 | 5.4 |
| March | 26.545 | 26.947 | 26.179 | 25.2 | 39.2 | 44.5 | 22.4 | 33.4 | 63 | 6 | 18 | 21 | 75 | 48 | .099 | .113 | .09 | .08 | 4.3 | 4.4 | 4.3 |
| April | 26.524 | 26.975 | 26.043 | 30.7 | 45.2 | 50.3 | 27.2 | 38.8 | 70 | 20 | 22 | 24 | 71 | 46 | .118 | .131 | .45 | .12 | 5.6 | 6.7 | 6.5 |
| May | 26.482 | 26.795 | 26.063 | 45.7 | 57.4 | 62.5 | 40.5 | 51.5 | 82 | 19 | 34 | 36 | 65 | 50 | .206 | .226 | 5.13 | 1.96 | 5.4 | 6.5 | 6.1 |
| June | 26.601 | 26.776 | 26.350 | 59.4 | 72.3 | 75.7 | 55.1 | 65.4 | 91 | 46 | 52 | 54 | 78 | 55 | .391 | .433 | 7.54 | 3.72 | 4.6 | 3.8 | 4.5 |
| July | 26.596 | 26.955 | 26.286 | 62.9 | 78.1 | 83.3 | 58.5 | 70.9 | 96 | 50 | 53 | 55 | 73 | 48 | .420 | .444 | 1.80 | .52 | 2.8 | 3.7 | 2.8 |
| August | 26.618 | 26.955 | 26.369 | 65.0 | 83.1 | 87.6 | 60.5 | 74.0 | 99 | 48 | 53 | 52 | 68 | 37 | .416 | .404 | .49 | .13 | 1.9 | 2.7 | 2.8 |
| September | 26.657 | 26.978 | 26.298 | 51.4 | 68.0 | 75.0 | 48.1 | 61.6 | 88 | 36 | 41 | 43 | 71 | 45 | .270 | .288 | 1.66 | 1.15 | 4.2 | 4.2 | 3.9 |
| October | 26.636 | 27.056 | 26.274 | 41.4 | 53.1 | 62.1 | 36.0 | 49.0 | 83 | 14 | 27 | 30 | 59 | 42 | .155 | .169 | .88 | .75 | 3.6 | 3.3 | 3.6 |
| November | 26.586 | 27.069 | 25.995 | 33.7 | 38.5 | 49.6 | 25.5 | 37.6 | 75 | − 2 | 22 | 25 | 64 | 63 | .118 | .136 | .93 | .29 | 4.6 | 4.8 | 6.4 |
| December | 26.592 | 26.845 | 26.198 | 12.8 | 15.4 | 24.6 | 4.7 | 14.6 | 57 | −16 | 7 | 10 | 78 | 78 | .066 | .070 | 1.00 | .32 | 5.3 | 6.0 | 6.2 |
| Year | 26.572 | 27.088 | 25.968 | 38.9 | 50.1 | 57.2 | 33.6 | 45.4 | 99 | −18 | 29 | 31 | 70 | 54 | .201 | .216 | 20.38 | 3.72 | 4.4 | 4.7 | 4.9 |

RED BLUFF, CAL.

[$\phi$=40° 10′ N.; $\lambda$=122° 15′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.578 | 29.973 | 29.057 | 46.6 | 50.3 | 52.5 | 44.2 | 48.4 | 63 | 30 | 45 | 47 | 93 | 90 | 0.306 | 0.330 | 13.42 | 2.06 | 8.6 | 8.7 | 8.9 |
| February | 29.688 | 30.007 | 29.219 | 44.1 | 51.8 | 53.6 | 42.2 | 47.9 | 64 | 34 | 42 | 42 | 91 | 73 | .264 | .273 | 8.20 | 4.12 | 6.5 | 7.8 | 6.5 |
| March | 29.651 | 29.951 | 29.174 | 44.8 | 57.8 | 60.1 | 42.9 | 51.5 | 69 | 32 | 38 | 39 | 79 | 54 | .233 | .246 | 4.46 | 2.16 | 3.5 | 5.1 | 4.5 |
| April | 29.666 | 29.965 | 29.350 | 51.5 | 74.2 | 75.4 | 49.6 | 62.5 | 86 | 42 | 36 | 34 | 58 | 25 | .215 | .208 | .03 | .03 | 1.4 | .7 | .9 |
| May | 29.573 | 29.897 | 29.373 | 55.0 | 78.0 | 79.5 | 53.5 | 66.5 | 98 | 45 | 40 | 38 | 60 | 26 | .256 | .243 | .25 | .15 | 1.6 | 2.0 | 1.9 |
| June | 29.528 | 29.681 | 29.219 | 64.2 | 86.5 | 88.2 | 63.2 | 75.7 | 101 | 55 | 45 | 42 | 53 | 26 | .305 | .286 | .31 | .28 | 1.8 | 2.3 | 2.0 |
| July | 29.518 | 29.721 | 29.315 | 66.5 | 92.0 | 93.8 | 65.3 | 79.6 | 106 | 57 | 43 | 38 | 43 | 16 | .278 | .239 | T. | T. | .7 | .9 | .9 |
| August | 29.495 | 29.630 | 29.300 | 64.6 | 93.9 | 95.1 | 63.2 | 79.2 | 102 | 55 | 42 | 39 | 45 | 16 | .270 | .244 | .0 | .0 | .1 | .7 | .3 |
| September | 29.569 | 29.772 | 29.367 | 63.5 | 85.7 | 87.7 | 61.7 | 74.7 | 102 | 50 | 43 | 38 | 51 | 22 | .291 | .243 | .45 | .26 | 1.5 | 2.6 | 1.9 |
| October | 29.678 | 29.838 | 29.370 | 53.9 | 71.9 | 74.2 | 52.1 | 63.2 | 91 | 43 | 45 | 44 | 75 | 43 | .305 | .291 | .82 | .30 | 3.3 | 4.1 | 3.7 |
| November | 29.737 | 30.066 | 29.396 | 46.7 | 56.6 | 60.1 | 44.8 | 52.4 | 76 | 32 | 41 | 43 | 83 | 63 | .274 | .290 | 2.70 | .85 | 4.7 | 6.1 | 5.5 |
| December | 29.701 | 30.014 | 29.200 | 39.4 | 48.7 | 51.3 | 36.9 | 44.1 | 64 | 29 | 32 | 35 | 76 | 63 | .183 | .207 | 4.35 | 1.23 | 4.5 | 4.9 | 5.7 |
| Year | 29.615 | 30.066 | 29.057 | 53.4 | 70.6 | 72.6 | 51.6 | 62.1 | 106 | 29 | 41 | 40 | 67 | 43 | .265 | .258 | 34.99 | 4.12 | 3.2 | 3.8 | 3.6 |

RENO, NEV.

[$\phi$=39° 32′ N.; $\lambda$=119° 49′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 25.346 | 25.639 | 24.869 | 34.1 | 40.6 | 45.8 | 29.7 | 37.8 | 59 | 4 | 27 | 28 | 76 | 61 | 0.152 | 0.153 | 4.75 | 1.19 | 4.7 | 7.4 | 6.5 |
| February | 25.401 | 25.707 | 24.997 | 31.3 | 42.0 | 47.5 | 27.1 | 37.3 | 61 | 9 | 24 | 26 | 72 | 54 | .128 | .140 | .91 | .45 | 4.6 | 5.6 | 5.2 |
| March | 25.388 | 25.698 | 24.903 | 30.8 | 47.3 | 50.8 | 28.1 | 39.4 | 65 | 19 | 22 | 23 | 70 | 38 | .117 | .120 | .27 | .13 | 3.9 | 5.3 | 4.5 |
| April | 25.484 | 25.838 | 25.201 | 35.8 | 60.7 | 64.2 | 33.4 | 48.8 | 75 | 25 | 26 | 23 | 66 | 24 | .138 | .123 | .18 | .18 | 2.1 | 2.3 | 2.7 |
| May | 25.420 | 25.746 | 25.191 | 40.1 | 62.5 | 66.8 | 38.0 | 52.4 | 85 | 27 | 29 | 27 | 65 | 28 | .159 | .149 | .19 | .08 | 2.2 | 4.2 | 3.4 |
| June | 25.441 | 25.586 | 25.224 | 49.0 | 75.5 | 79.3 | 48.0 | 63.6 | 90 | 40 | 37 | 37 | 64 | 27 | .223 | .221 | .25 | .25 | 1.9 | 2.3 | 2.2 |
| July | 25.462 | 25.611 | 25.210 | 50.8 | 81.2 | 85.0 | 49.7 | 67.4 | 95 | 36 | 36 | 33 | 57 | 18 | .211 | .191 | T. | T. | .2 | .8 | .8 |
| August | 25.465 | 25.593 | 25.284 | 52.9 | 84.9 | 88.3 | 51.0 | 69.6 | 97 | 41 | 37 | 40 | 55 | 22 | .223 | .234 | .09 | .06 | 1.2 | 1.5 | 1.5 |
| September | 25.507 | 25.728 | 25.218 | 46.6 | 72.7 | 77.3 | 44.2 | 60.8 | 88 | 33 | 36 | 34 | 66 | 26 | .213 | .201 | .34 | .20 | 1.3 | 2.8 | 2.0 |
| October | 25.532 | 25.826 | 25.284 | 40.1 | 61.6 | 66.4 | 36.8 | 51.6 | 79 | 28 | 32 | 32 | 74 | 37 | .185 | .187 | .46 | .24 | 2.8 | 2.6 | 3.2 |
| November | 25.495 | 25.850 | 25.092 | 34.3 | 46.0 | 51.9 | 30.3 | 41.1 | 72 | 5 | 27 | 28 | 76 | 53 | .153 | .156 | 1.30 | 1.11 | 4.1 | 5.0 | 5.5 |
| December | 25.445 | 25.844 | 24.930 | 24.3 | 33.3 | 38.4 | 20.9 | 29.6 | 55 | 8 | 21 | 23 | 87 | 66 | .114 | .124 | 2.42 | 1.45 | 4.4 | 5.9 | 6.0 |
| Year | 25.449 | 25.850 | 24.869 | 39.2 | 59.0 | 63.5 | 36.4 | 50.0 | 97 | 4 | 30 | 30 | 69 | 38 | .168 | .168 | 11.16 | 1.45 | 2.8 | 3.8 | 3.6 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

RALEIGH, N. C.

[H=376 ft.; $h_t$=103 ft.; $h_r$=94 ft.; $h_a$=110 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Wind. By self-register. Prevailing direction. | Wind. By self-register. Maximum velocity. | Wind. By self-register. Direction at time of maximum velocity. | Wind. Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 8.1 | NE. | 35 | NW. | 0 | 4 | 19 | 1 | 4 | 9 | 14 | 1 | 9 | 1 | 9 | 12 | 10 | 10 | 7 | 0 | 0 | 6 | 2 | 0 | 13 | 0 | 0 |
| February | 10.6 | SW. | 46 | SW. | 1 | 1 | 2 | 0 | 4 | 8 | 17 | 9 | 14 | 1 | 12 | 9 | 7 | 12 | 11 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 |
| March | 9.9 | NW. | 49 | NW. | 3 | 8 | 13 | 3 | 2 | 6 | 13 | 2 | 15 | 0 | 9 | 11 | 11 | 12 | 9 | 0 | 1 | 1 | 0 | 0 | 5 | 1 | 0 |
| April | 9.8 | SW. | 36 | S. | 0 | 5 | 11 | 3 | 9 | 3 | 18 | 8 | 3 | 0 | 13 | 6 | 11 | 10 | 7 | 0 | 0 | 1 | 0 | 0 | 1 | 4 | 0 |
| May | 8.3 | SW. | 38 | SW. | 0 | 5 | 13 | 5 | 3 | 1 | 21 | 8 | 6 | 0 | 11 | 11 | 9 | 11 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| June | 7.3 | SW. | 33 | W. | 0 | 4 | 3 | 6 | 5 | 6 | 20 | 13 | 3 | 0 | 5 | 19 | 6 | 11 | 9 | 0 | 0 | 0 | 0 | 5 | 0 | 12 | 0 |
| July | 6.7 | SW. | 32 | W. | 0 | 5 | 9 | 3 | 9 | 6 | 21 | 6 | 3 | 0 | 13 | 10 | 8 | 10 | 8 | 0 | 0 | 1 | 0 | 7 | 0 | 11 | 0 |
| August | 5.9 | NE. | 31 | N. | 0 | 5 | 18 | 11 | 4 | 5 | 8 | 6 | 5 | 0 | 13 | 7 | 11 | 8 | 7 | 0 | 0 | 0 | 0 | 6 | 0 | 4 | 0 |
| September | 6.9 | NE. | 22 | NE. | 0 | 5 | 27 | 9 | 5 | 3 | 9 | 1 | 1 | 0 | 6 | 12 | 12 | 8 | 8 | 0 | 0 | 2 | 0 | 0 | 0 | 4 | 0 |
| October | 7.2 | NE. | 34 | NW. | 0 | 14 | 16 | 5 | 3 | 0 | 10 | 5 | 9 | 0 | 19 | 8 | 4 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| November | 8.2 | NE. | 32 | SW. | 0 | 10 | 21 | 2 | 3 | 0 | 18 | 1 | 5 | 0 | 13 | 12 | 5 | 4 | 1 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 0 |
| December | 8.1 | NW. | 38 | NW. | 0 | 12 | 9 | 3 | 3 | 5 | 7 | 9 | 12 | 2 | 16 | 8 | 7 | 3 | 3 | 1 | 0 | 0 | 2 | 0 | 18 | 0 | 0 |
| Year | 8.1 | SW. | 49 | NW. | 4 | 78 | 161 | 51 | 54 | 52 | 176 | 69 | 85 | 4 | 139 | 125 | 101 | 104 | 84 | 1 | 1 | 13 | 4 | 18 | 44 | 44 | 0 |

RAPID CITY, S. DAK.

[H=3,234 ft.; $h_t$=46 ft.; $h_r$=35 ft.; $h_a$=50 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 8.1 | SE. | 36 | N. | 0 | 8 | 2 | 5 | 15 | 3 | 4 | 15 | 9 | 1 | 10 | 5 | 16 | 2 | 1 | 2 | 0 | 0 | 11 | 0 | 28 | 0 | 1 |
| February | 7.4 | W. | 29 | N. | 0 | 7 | 3 | 4 | 7 | 0 | 5 | 19 | 11 | 0 | 8 | 10 | 10 | 4 | 2 | 4 | 0 | 0 | 7 | 0 | 27 | 0 | 0 |
| March | 8.1 | N. | 34 | NW. | 0 | 13 | 7 | 3 | 9 | 0 | 4 | 12 | 14 | 0 | 13 | 13 | 5 | 3 | 1 | 3 | 0 | 0 | 3 | 0 | 31 | 0 | 0 |
| April | 8.9 | NW. | 37 | SW. | 0 | 7 | 3 | 3 | 7 | 2 | 2 | 15 | 19 | 2 | 3 | 15 | 12 | 10 | 6 | 7 | 0 | 1 | 2 | 0 | 23 | 0 | 0 |
| May | 9.7 | W. | 52 | SW. | 1 | 5 | 7 | 6 | 10 | 4 | 1 | 19 | 9 | 1 | 6 | 17 | 8 | 15 | 12 | 1 | 1 | 1 | 0 | 0 | 5 | 4 | 2 |
| June | 6.5 | SE. | 37 | NW. | 0 | 9 | 6 | 5 | 12 | 4 | 4 | 13 | 7 | 0 | 12 | 13 | 5 | 20 | 18 | 0 | 0 | 0 | 0 | 2 | 0 | 17 | 0 |
| July | 7.1 | SE. | 38 | NW. | 0 | 4 | 9 | 4 | 14 | 4 | 4 | 13 | 9 | 1 | 20 | 8 | 3 | 9 | 7 | 0 | 0 | 2 | 0 | 6 | 0 | 12 | 0 |
| August | 7.0 | W. | 26 | SW. | 0 | 9 | 4 | 6 | 10 | 7 | 8 | 14 | 4 | 0 | 20 | 10 | 1 | 8 | 5 | 0 | 0 | 0 | 0 | 12 | 0 | 9 | 0 |
| September | 6.6 | W. | 31 | SW. | 0 | 13 | 0 | 3 | 12 | 10 | 1 | 13 | 6 | 2 | 16 | 9 | 5 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| October | 7.8 | W. | 36 | SE. | 0 | 3 | 0 | 2 | 12 | 3 | 3 | 19 | 17 | 3 | 14 | 14 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 10 | 1 | 1 |
| November | 6.4 | W. | 31 | SE. | 0 | 7 | 2 | 6 | 11 | 2 | 6 | 19 | 7 | 0 | 5 | 12 | 13 | 6 | 6 | 6 | 0 | 2 | 7 | 0 | 20 | 0 | 1 |
| December | 7.0 | W. | 37 | N. | 0 | 12 | 1 | 4 | 9 | 0 | 0 | 23 | 13 | 0 | 7 | 11 | 13 | 11 | 9 | 10 | 0 | 0 | 22 | 0 | 31 | 0 | 0 |
| Year | 7.6 | W. | 52 | SW. | 1 | 97 | 44 | 51 | 128 | 39 | 42 | 194 | 125 | 10 | 134 | 137 | 94 | 95 | 73 | 33 | 3 | 4 | 52 | 20 | 175 | 48 | 5 |

RED BLUFF, CAL.

[H=330 ft.; $h_t$=50 ft.; $h_r$=40 ft.; $h_a$=56 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 9.1 | SE. | 29 | S. | 0 | 0 | 2 | 1 | 32 | 8 | 2 | 1 | 13 | 3 | 2 | 2 | 27 | 24 | 23 | 0 | 0 | 1 | 0 | 0 | 3 | 1 | 0 |
| February | 7.1 | SE. | 34 | S. | 0 | 2 | 1 | 1 | 26 | 8 | 2 | 4 | 10 | 2 | 6 | 9 | 13 | 15 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| March | 6.8 | SE. | 32 | N. | 0 | 4 | 3 | 1 | 23 | 7 | 1 | 5 | 16 | 2 | 15 | 7 | 9 | 11 | 10 | 1 | 3 | 0 | 0 | 0 | 1 | 2 | 0 |
| April | 6.9 | NW. | 24 | N. | 0 | 4 | 2 | 0 | 10 | 2 | 1 | 5 | 36 | 0 | 28 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| May | 5.9 | NW. | 27 | NE. | 0 | 5 | 0 | 0 | 21 | 4 | 2 | 1 | 26 | 3 | 25 | 3 | 3 | 4 | 2 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 1 |
| June | 6.1 | SE. | 23 | S. | 0 | 7 | 0 | 1 | 27 | 5 | 2 | 1 | 15 | 2 | 25 | 1 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 |
| July | 5.6 | SE. | 23 | W. | 0 | 7 | 3 | 0 | 26 | 5 | 1 | 7 | 13 | 0 | 28 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 0 | 0 |
| August | 3.9 | SE. | 15 | N. | 0 | 1 | 0 | 0 | 32 | 9 | 0 | 6 | 12 | 2 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 0 | 0 |
| September | 6.1 | SE. | 33 | NW. | 0 | 4 | 1 | 0 | 21 | 8 | 2 | 5 | 16 | 3 | 23 | 4 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 |
| October | 4.8 | NW. | 24 | N. | 0 | 5 | 1 | 1 | 15 | 7 | 3 | 3 | 21 | 6 | 17 | 9 | 5 | 7 | 7 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| November | 5.4 | NW. | 22 | NW. | 0 | 5 | 5 | 2 | 16 | 2 | 5 | 2 | 22 | 1 | 10 | 7 | 13 | 8 | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| December | 5.8 | NW. | 25 | N. | 0 | 5 | 1 | 1 | 7 | 2 | 2 | 2 | 42 | 0 | 12 | 2 | 17 | 10 | 10 | 3 | 0 | 1 | 0 | 0 | 5 | 0 | 0 |
| Year | 6.1 | SE. | 34 | S. | 0 | 49 | 19 | 8 | 256 | 67 | 23 | 42 | 242 | 24 | 222 | 48 | 95 | 85 | 75 | 4 | 4 | 2 | 0 | 85 | 10 | 7 | 0 |

RENO, NEV.

[H=4,532 ft.; $h_t$=56 ft.; $h_r$=47 ft.; $h_a$=63 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 7.1 | SW. | 52 | SW. | 1 | 1 | 5 | 6 | 6 | 11 | 13 | 13 | 5 | 2 | 5 | 13 | 13 | 14 | 14 | 6 | 0 | 0 | 2 | 0 | 18 | 0 | 0 |
| February | 6.2 | W. | 28 | S. | 0 | 4 | 2 | 5 | 5 | 4 | 6 | 25 | 4 | 1 | 8 | 13 | 7 | 5 | 4 | 5 | 0 | 0 | 0 | 0 | 22 | 0 | 0 |
| March | 6.3 | W. | 27 | SW. | 0 | 2 | 10 | 5 | 4 | 2 | 7 | 27 | 4 | 1 | 10 | 15 | 6 | 6 | 2 | 5 | 1 | 0 | 0 | 0 | 27 | 1 | 0 |
| April | 6.4 | W. | 29 | W. | 0 | 4 | 1 | 3 | 2 | 2 | 13 | 25 | 9 | 1 | 18 | 10 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 |
| May | 6.5 | W. | 32 | SW. | 0 | 3 | 5 | 3 | 4 | 0 | 8 | 35 | 4 | 0 | 16 | 12 | 3 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 0 |
| June | 6.3 | W. | 24 | W. | 0 | 2 | 0 | 2 | 2 | 1 | 14 | 37 | 2 | 0 | 24 | 2 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 0 |
| July | 6.5 | W. | 27 | W. | 0 | 0 | 0 | 2 | 4 | 0 | 15 | 37 | 4 | 0 | 27 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 1 | 0 |
| August | 5.4 | W. | 22 | W. | 0 | 1 | 0 | 5 | 2 | 3 | 11 | 38 | 2 | 0 | 25 | 6 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 9 | 0 | 1 | 0 |
| September | 5.2 | W. | 32 | SW. | 0 | 2 | 5 | 5 | 3 | 4 | 7 | 27 | 7 | 0 | 20 | 10 | 0 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| October | 4.5 | W. | 31 | W. | 0 | 1 | 5 | 10 | 6 | 2 | 11 | 21 | 6 | 0 | 19 | 9 | 3 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 |
| November | 5.7 | W. | 31 | SW. | 0 | 5 | 2 | 3 | 8 | 5 | 11 | 21 | 5 | 0 | 7 | 13 | 10 | 7 | 4 | 3 | 1 | 0 | 2 | 0 | 19 | 0 | 0 |
| December | 3.9 | SW. | 38 | SE. | 0 | 1 | 7 | 12 | 6 | 7 | 13 | 4 | 11 | 1 | 6 | 13 | 12 | 8 | 7 | 4 | 0 | 0 | 7 | 0 | 28 | 0 | 0 |
| Year | 5.8 | W. | 52 | SW. | 1 | 26 | 42 | 61 | 52 | 41 | 129 | 310 | 63 | 6 | 185 | 120 | 60 | 60 | 43 | 23 | 2 | 0 | 11 | 21 | 138 | 10 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

RICHMOND, VA.

[$\phi$=37° 32′ N.; $\lambda$=77° 27′ W.]

| Month. | Pressure. | | | Temperature | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 30.018 | 30.445 | 29.141 | 37.2 | ..... | 51.0 | 33.5 | 42.2 | 74 | 20 | 31 | .... | 80 | .... | 0.191 | ..... | 3.00 | 1.37 | 6.3 | ..... | 6.0 |
| February | 29.877 | 30.352 | 29.273 | 41.1 | ..... | 57.5 | 37.3 | 47.4 | 73 | 18 | 33 | .... | 72 | .... | .213 | ..... | 2.94 | .78 | 4.6 | ..... | 5.1 |
| March | 29.760 | 30.312 | 28.896 | 40.9 | ..... | 56.5 | 36.2 | 46.4 | 77 | 27 | 32 | .... | 72 | .... | .193 | ..... | 4.13 | 2.16 | 4.7 | ..... | 4.7 |
| April | 29.945 | 30.544 | 29.638 | 52.4 | ..... | 68.7 | 46.6 | 57.6 | 89 | 30 | 42 | .... | 70 | .... | .289 | ..... | 3.21 | 1.44 | 4.2 | ..... | 4.7 |
| May | 29.807 | 30.133 | 29.379 | 61.8 | ..... | 76.5 | 55.5 | 66.0 | 90 | 40 | 51 | .... | 71 | .... | .395 | ..... | 3.41 | 1.28 | 4.9 | ..... | 4.7 |
| June | 29.857 | 30.150 | 29.570 | 72.9 | ..... | 85.9 | 66.5 | 76.2 | 95 | 57 | 66 | .... | 80 | .... | .654 | ..... | 4.59 | 1.76 | 5.5 | ..... | 4.6 |
| July | 29.843 | 30.127 | 29.529 | 73.9 | ..... | 86.5 | 67.1 | 76.8 | 96 | 59 | 62 | .... | 70 | .... | .575 | ..... | 1.25 | .78 | 3.7 | ..... | 3.4 |
| August | 29.884 | 30.163 | 29.423 | 69.2 | ..... | 83.4 | 65.1 | 74.2 | 95 | 58 | 63 | .... | 81 | .... | .575 | ..... | 4.01 | 2.04 | 3.9 | ..... | 4.9 |
| September | 29.962 | 30.227 | 29.767 | 62.0 | ..... | 75.9 | 59.0 | 67.4 | 85 | 47 | 59 | .... | 90 | .... | .519 | ..... | 2.89 | 1.95 | 5.9 | ..... | 5.5 |
| October | 29.989 | 30.403 | 29.559 | 48.2 | ..... | 66.2 | 44.6 | 55.4 | 79 | 33 | 42 | .... | 82 | .... | .283 | ..... | .77 | .31 | 2.9 | ..... | 3.6 |
| November | 30.071 | 30.495 | 29.487 | 47.1 | ..... | 63.1 | 43.1 | 53.1 | 75 | 25 | 41 | .... | 80 | .... | .276 | ..... | .62 | .50 | 4.3 | ..... | 4.2 |
| December | 29.868 | 30.309 | 29.259 | 30.1 | ..... | 43.9 | 27.8 | 35.8 | 64 | 10 | 25 | .... | 81 | .... | .139 | ..... | 3.39 | 2.52 | 4.4 | ..... | 4.6 |
| Year | 29.907 | 30.544 | 28.896 | 53.0 | ..... | 67.9 | 48.5 | 58.2 | 96 | 10 | 46 | .... | 77 | .... | .358 | ..... | 34.21 | 2.52 | 4.6 | ..... | 4.7 |

ROCHESTER, N. Y.

[$\phi$=43° 8′ N.; $\lambda$=77° 42′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.542 | 30.112 | 28.711 | 26.9 | 29.1 | 35.4 | 22.2 | 28.8 | 64 | 0 | 22 | 23 | 79 | 76 | 0.133 | 0.136 | 2.82 | 0.85 | 8.8 | 7.3 | 8.6 |
| February | 29.342 | 29.964 | 28.530 | 27.6 | 29.1 | 36.5 | 21.9 | 29.2 | 54 | 3 | 23 | 22 | 81 | 74 | .128 | .123 | 2.90 | 1.00 | 8.8 | 7.2 | 8.4 |
| March | 29.282 | 29.877 | 28.506 | 28.9 | 31.5 | 36.8 | 25.6 | 31.2 | 60 | 12 | 23 | 25 | 78 | 76 | .127 | .137 | 2.41 | 1.17 | 7.3 | 4.5 | 7.3 |
| April | 29.447 | 30.070 | 28.978 | 40.8 | 43.0 | 52.7 | 34.9 | 43.8 | 73 | 17 | 32 | 34 | 70 | 72 | .189 | .209 | 3.54 | .86 | 7.5 | 5.6 | 7.0 |
| May | 29.309 | 29.710 | 29.000 | 52.6 | 55.6 | 64.1 | 45.9 | 55.0 | 81 | 32 | 43 | 43 | 71 | 64 | .287 | .284 | 3.95 | .92 | 6.2 | 6.3 | 6.3 |
| June | 29.428 | 29.715 | 29.103 | 64.5 | 67.8 | 74.9 | 58.1 | 66.5 | 87 | 46 | 52 | 52 | 65 | 59 | .407 | .403 | .91 | .37 | 5.2 | 5.3 | 5.2 |
| July | 29.379 | 29.736 | 29.019 | 66.3 | 69.5 | 78.8 | 59.5 | 69.2 | 89 | 50 | 55 | 55 | 67 | 62 | .443 | .452 | 3.49 | 1.12 | 5.0 | 4.5 | 4.9 |
| August | 29.471 | 29.819 | 29.078 | 65.1 | 69.8 | 78.7 | 59.5 | 69.1 | 91 | 46 | 54 | 55 | 69 | 60 | .430 | .438 | 1.70 | 1.02 | 4.8 | 4.3 | 4.4 |
| September | 29.541 | 29.867 | 29.242 | 57.3 | 60.9 | 70.6 | 51.7 | 61.2 | 91 | 40 | 50 | 51 | 78 | 72 | .373 | .389 | 1.86 | .78 | 6.2 | 4.3 | 6.0 |
| October | 29.492 | 29.981 | 28.981 | 43.6 | 47.8 | 54.7 | 39.9 | 47.3 | 81 | 26 | 37 | 38 | 78 | 71 | .228 | .243 | 2.79 | 1.42 | 6.1 | 6.2 | 6.3 |
| November | 29.600 | 30.108 | 28.798 | 41.2 | 44.3 | 52.4 | 36.7 | 44.6 | 75 | 24 | 34 | 35 | 77 | 71 | .207 | .215 | 1.40 | .44 | 7.4 | 6.8 | 7.1 |
| December | 29.353 | 29.929 | 28.878 | 24.5 | 25.2 | 30.4 | 21.8 | 26.1 | 47 | 5 | 20 | 20 | 80 | 79 | .106 | .110 | 1.72 | .63 | 9.5 | 6.0 | 8.5 |
| Year | 29.437 | 30.112 | 28.506 | 44.9 | 47.8 | 55.5 | 39.8 | 47.7 | 91 | 0 | 37 | 38 | 74 | 70 | .255 | .262 | 29.49 | 1.42 | 6.9 | 5.7 | 6.7 |

ROSEBURG, OREG.

[$\phi$=43° 13′ N.; $\lambda$=123° 20′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.273 | 29.822 | 28.602 | 37.5 | 44.3 | 48.1 | 34.5 | 41.3 | 63 | 18 | 36 | 38 | 92 | 80 | 0.215 | 0.237 | 10.38 | 1.35 | 7.9 | 7.7 | 7.6 |
| February | 29.397 | 29.719 | 28.916 | 41.7 | 47.8 | 51.0 | 38.4 | 44.7 | 64 | 31 | 37 | 39 | 86 | 74 | .224 | .242 | 7.22 | 1.34 | 7.4 | 8.6 | 7.9 |
| March | 29.483 | 29.822 | 28.919 | 38.9 | 53.8 | 56.0 | 36.2 | 46.1 | 68 | 29 | 37 | 38 | 92 | 58 | .220 | .232 | 1.62 | .54 | 6.2 | 5.7 | 6.5 |
| April | 29.652 | 29.888 | 29.416 | 39.8 | 62.2 | 64.2 | 37.6 | 50.9 | 78 | 30 | 36 | 36 | 88 | 39 | .215 | .211 | .37 | .18 | 5.6 | 2.6 | 3.4 |
| May | 29.527 | 29.811 | 29.288 | 42.1 | 64.9 | 67.2 | 40.5 | 53.8 | 90 | 30 | 39 | 40 | 90 | 42 | .244 | .255 | 1.13 | .42 | 5.0 | 3.8 | 4.2 |
| June | 29.504 | 29.708 | 29.228 | 48.6 | 73.6 | 76.2 | 47.6 | 61.9 | 92 | 41 | 45 | 41 | 87 | 38 | .297 | .303 | .70 | .68 | 3.6 | 3.0 | 3.3 |
| July | 29.516 | 29.690 | 29.291 | 51.2 | 75.4 | 77.4 | 50.3 | 63.8 | 88 | 43 | 48 | 49 | 88 | 41 | .330 | .347 | .48 | .44 | 4.3 | 3.1 | 3.9 |
| August | 29.471 | 29.652 | 29.185 | 50.4 | 79.7 | 81.2 | 48.8 | 65.0 | 96 | 41 | 47 | 47 | 88 | 33 | .321 | .326 | T. | T. | 3.1 | 1.0 | 2.3 |
| September | 29.498 | 29.789 | 29.131 | 50.2 | 74.9 | 77.4 | 47.7 | 62.6 | 95 | 38 | 46 | 46 | 88 | 40 | .324 | .313 | .72 | .35 | 3.4 | 3.4 | 2.9 |
| October | 29.513 | 29.813 | 29.140 | 46.2 | 62.4 | 63.9 | 43.2 | 53.6 | 83 | 36 | 44 | 49 | 94 | 65 | .296 | .352 | 4.07 | 1.18 | 6.0 | 5.2 | 6.1 |
| November | 29.491 | 29.843 | 29.189 | 44.2 | 50.1 | 54.3 | 40.7 | 47.5 | 71 | 27 | 42 | 43 | 92 | 79 | .274 | .286 | 8.70 | 3.13 | 7.7 | 7.6 | 8.2 |
| December | 29.516 | 29.933 | 28.733 | 34.7 | 38.9 | 41.7 | 30.9 | 36.8 | 58 | 19 | 33 | 35 | 92 | 86 | .189 | .206 | 3.68 | 1.06 | 8.2 | 6.7 | 7.7 |
| Year | 29.487 | 29.933 | 28.602 | 43.8 | 60.7 | 63.2 | 41.4 | 52.3 | 96 | 18 | 41 | 42 | 90 | 58 | .262 | .276 | 39.07 | 3.13 | 5.7 | 4.9 | 5.3 |

ROSWELL, N. MEX.

[$\phi$=33° 24′ N.; $\lambda$=104° 27′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 26.309 | 26.805 | 26.123 | 31.5 | 54.5 | 61.8 | 27.0 | 44.4 | 81 | 13 | 24 | 28 | 76 | 38 | 0.130 | 0.155 | 0.02 | 0.02 | 5.0 | 4.5 | 4.7 |
| February | 26.314 | 26.782 | 25.859 | 31.0 | 55.9 | 62.8 | 27.0 | 44.9 | 75 | 8 | 19 | 22 | 62 | 29 | .104 | .121 | .02 | .02 | 3.4 | 4.9 | 4.5 |
| March | 26.274 | 26.715 | 25.925 | 33.4 | 59.7 | 63.9 | 31.0 | 47.4 | 82 | − 2 | 24 | 25 | 70 | 31 | .133 | .136 | .97 | .56 | 4.3 | 4.8 | 4.6 |
| April | 26.281 | 26.850 | 25.952 | 42.9 | 73.5 | 77.0 | 40.8 | 58.9 | 92 | 23 | 27 | 26 | 57 | 18 | .150 | .143 | .00 | .00 | 2.3 | 2.5 | 2.6 |
| May | 26.227 | 26.551 | 26.003 | 49.5 | 79.1 | 82.8 | 47.9 | 65.4 | 92 | 29 | 34 | 30 | 59 | 19 | .206 | .175 | .05 | .04 | 3.2 | 3.9 | 3.8 |
| June | 26.313 | 26.553 | 26.161 | 61.6 | 86.2 | 91.6 | 60.5 | 76.0 | 96 | 50 | 52 | 50 | 74 | 31 | .413 | .380 | 1.05 | .50 | 4.3 | 5.6 | 4.7 |
| July | 26.347 | 26.556 | 26.122 | 66.8 | 87.6 | 92.2 | 65.9 | 79.0 | 105 | 62 | 61 | 61 | 81 | 44 | .534 | .544 | 1.94 | 1.04 | 4.5 | 5.0 | 4.5 |
| August | 26.402 | 26.626 | 26.249 | 63.7 | 84.4 | 89.3 | 63.1 | 76.2 | 97 | 57 | 60 | 60 | 87 | 46 | .513 | .516 | 2.01 | 1.30 | 3.6 | 4.6 | 3.6 |
| September | 26.439 | 26.744 | 26.013 | 53.9 | 77.0 | 83.8 | 52.8 | 68.3 | 93 | 36 | 49 | 52 | 84 | 43 | .366 | .398 | .40 | .40 | 2.4 | 2.7 | 2.3 |
| October | 26.430 | 26.848 | 26.147 | 42.7 | 65.7 | 75.0 | 40.0 | 57.5 | 89 | 29 | 36 | 41 | 79 | 44 | .219 | .268 | .63 | .63 | 2.2 | 2.5 | 2.5 |
| November | 26.394 | 26.850 | 26.133 | 37.7 | 58.7 | 69.4 | 34.7 | 52.0 | 83 | 18 | 30 | 34 | 75 | 43 | .173 | .202 | .29 | .18 | 3.2 | 3.4 | 3.8 |
| December | 26.368 | 26.702 | 25.947 | 24.1 | 40.4 | 48.7 | 19.8 | 34.2 | 73 | −10 | 20 | 22 | 83 | 52 | .109 | .123 | .31 | .18 | 4.5 | 5.0 | 5.1 |
| Year | 26.349 | 26.850 | 25.859 | 44.9 | 68.6 | 74.9 | 42.5 | 58.7 | 105 | −10 | 36 | 38 | 74 | 36 | .254 | .263 | 7.69 | 1.30 | 3.6 | 4.1 | 3.9 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

RICHMOND, VA.

[H=144 ft.; $h_t$=189 ft.; $h_r$=182 ft.; $h_a$=197 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles* | | *Mi* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 8.3 | S. | 35 | NW. | 0 | 8 | 7 | 1 | 5 | 16 | 10 | 1 | 14 | 0 | 10 | 6 | 15 | 11 | 9 | 1 | 1 | 4 | 2 | 0 | 15 | 1 | 2 |
| February | 11.9 | S. | 61 | SW. | 3 | 4 | 2 | 0 | 13 | 17 | 9 | 2 | 9 | 0 | 10 | 10 | 8 | 11 | 8 | 1 | 0 | 1 | 0 | 0 | 9 | 1 | 0 |
| March | 10.3 | NW. | 46 | SW. | 2 | 7 | 6 | 2 | 7 | 13 | 10 | 1 | 16 | 0 | 14 | 8 | 9 | 12 | 8 | 3 | 0 | 0 | 0 | 0 | 9 | 1 | 0 |
| April | 10.0 | SE. | 52 | NW. | 2 | 9 | 6 | 2 | 14 | 13 | 5 | 3 | 7 | 1 | 14 | 7 | 9 | 10 | 9 | 0 | 1 | 1 | 0 | 0 | 1 | 4 | 0 |
| May | 9.4 | SE. | 53 | S. | 1 | 8 | 5 | 2 | 15 | 11 | 10 | 2 | 8 | 1 | 13 | 9 | 9 | 9 | 8 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 0 |
| June | 7.1 | S. | 48 | NW. | 1 | 1 | 9 | 4 | 12 | 15 | 11 | 3 | 5 | 0 | 14 | 10 | 6 | 16 | 14 | 0 | 0 | 0 | 0 | 9 | 0 | 14 | 0 |
| July | 7.7 | S. | 26 | NW. | 0 | 5 | 3 | 1 | 11 | 15 | 14 | 1 | 12 | 0 | 22 | 5 | 4 | 5 | 3 | 0 | 0 | 0 | 0 | 12 | 0 | 3 | 0 |
| August | 5.5 | SE. | 33 | NW. | 0 | 8 | 9 | 3 | 17 | 9 | 7 | 0 | 9 | 0 | 9 | 14 | 8 | 11 | 8 | 0 | 0 | 1 | 0 | 4 | 0 | 12 | 0 |
| September | 7.7 | N. | 28 | N. | 0 | 13 | 11 | 5 | 10 | 10 | 2 | 3 | 4 | 2 | 5 | 19 | 6 | 7 | 5 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 1 |
| October | 8.0 | SW. | 37 | NW. | 0 | 7 | 9 | 2 | 11 | 6 | 15 | 3 | 9 | 0 | 13 | 16 | 2 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| November | 10.1 | S. | 38 | N. | 0 | 10 | 9 | 4 | 5 | 12 | 9 | 3 | 8 | 0 | 13 | 13 | 4 | 5 | 2 | 0 | 0 | 1 | 0 | 0 | 2 | 1 | 0 |
| December | 7.0 | NW. | 46 | NW. | 2 | 4 | 11 | 3 | 5 | 3 | 9 | 10 | 13 | 4 | 9 | 16 | 6 | 6 | 5 | 3 | 0 | 0 | 4 | 0 | 21 | 0 | 0 |
| Year | 8.6 | S. | 61 | SW. | 11 | 84 | 87 | 29 | 125 | 140 | 111 | 32 | 114 | 8 | 146 | 133 | 86 | 108 | 84 | 8 | 2 | 10 | 6 | 27 | 57 | 35 | 3 |

ROCHESTER, N. Y.

[H=523 ft.; $h_t$=86 ft.; $h_r$=77 ft.; $h_a$=102 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 9.7 | SW. | 37 | W. | 0 | 3 | 3 | 5 | 7 | 11 | 14 | 13 | 6 | 0 | 0 | 7 | 24 | 15 | 12 | 12 | 0 | 0 | 12 | 0 | 22 | 0 | 0 |
| February | 11.2 | W. | 48 | SW. | 1 | 0 | 8 | 1 | 7 | 8 | 11 | 16 | 5 | 0 | 2 | 7 | 19 | 16 | 11 | 11 | 0 | 0 | 11 | 0 | 26 | 0 | 0 |
| March | 11.1 | W. | 38 | W. | 0 | 3 | 6 | 3 | 2 | 6 | 7 | 25 | 10 | 0 | 5 | 6 | 20 | 12 | 9 | 9 | 0 | 0 | 8 | 0 | 29 | 0 | 1 |
| April | 10.2 | W. | 58 | W. | 3 | 4 | 4 | 1 | 9 | 12 | 4 | 13 | 13 | 0 | 5 | 7 | 18 | 17 | 10 | 4 | 0 | 0 | 1 | 0 | 7 | 3 | 0 |
| May | 8.5 | W. | 34 | W. | 0 | 4 | 2 | 9 | 5 | 3 | 15 | 15 | 9 | 0 | 8 | 8 | 15 | 16 | 13 | 3 | 0 | 1 | 0 | 0 | 1 | 6 | 0 |
| June | 7.3 | W. | 29 | NW. | 0 | 2 | 8 | 3 | 8 | 3 | 16 | 14 | 5 | 1 | 10 | 11 | 9 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| July | 8.1 | SW. | 30 | W. | 0 | 0 | 4 | 8 | 0 | 5 | 15 | 17 | 13 | 0 | 12 | 10 | 9 | 12 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| August | 6.6 | SW. | 24 | NW. | 0 | 4 | 7 | 9 | 4 | 5 | 17 | 10 | 3 | 3 | 15 | 11 | 5 | 7 | 6 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 0 |
| September | 6.9 | S. | 28 | W. | 0 | 2 | 6 | 7 | 4 | 13 | 10 | 12 | 6 | 0 | 7 | 9 | 14 | 11 | 9 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 0 |
| October | 8.6 | W. | 30 | W. | 0 | 1 | 3 | 2 | 2 | 10 | 19 | 20 | 5 | 0 | 8 | 8 | 15 | 9 | 6 | 1 | 0 | 0 | 0 | 0 | 4 | 1 | 2 |
| November | 8.9 | SW. | 34 | W. | 0 | 2 | 6 | 3 | 3 | 16 | 13 | 10 | 6 | 1 | 8 | 3 | 19 | 14 | 9 | 5 | 0 | 0 | 3 | 0 | 9 | 0 | 0 |
| December | 11.3 | W. | 37 | W. | 0 | 3 | 1 | 4 | 6 | 2 | 22 | 20 | 4 | 0 | 0 | 8 | 23 | 17 | 9 | 15 | 0 | 0 | 19 | 0 | 31 | 0 | 0 |
| Year | 9.0 | W. | 58 | W. | 4 | 28 | 58 | 55 | 57 | 94 | 163 | 185 | 85 | 5 | 80 | 95 | 190 | 152 | 109 | 60 | 0 | 1 | 54 | 4 | 129 | 23 | 3 |

ROSEBURG, OREG.

[H=510 ft.; $h_t$=9 ft.; $h_r$=4 ft.; $h_a$=57 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 2.9 | S. | 26 | S. | 0 | 9 | 3 | 1 | 12 | 10 | 7 | 3 | 10 | 7 | 2 | 10 | 19 | 22 | 19 | 4 | 0 | 2 | 2 | 0 | 14 | 0 | 0 |
| February | 3.7 | S. | 28 | SW. | 0 | 1 | 3 | 3 | 15 | 16 | 7 | 4 | 6 | 1 | 0 | 10 | 18 | 22 | 19 | 2 | 0 | 0 | 0 | 0 | 3 | 0 | 0 |
| March | 3.2 | NW. | 34 | SW. | 0 | 10 | 6 | 0 | 6 | 9 | 6 | 4 | 15 | 6 | 3 | 15 | 13 | 13 | 11 | 0 | 1 | 0 | 0 | 0 | 7 | 0 | 0 |
| April | 3.7 | NW. | 17 | NW. | 0 | 20 | 1 | 1 | 1 | 4 | 1 | 1 | 25 | 6 | 10 | 19 | 1 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 |
| May | 3.9 | NW. | 22 | SW. | 0 | 18 | 3 | 4 | 2 | 3 | 6 | 2 | 17 | 7 | 11 | 15 | 5 | 10 | 9 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| June | 4.2 | NW. | 18 | NW. | 0 | 18 | 4 | 2 | 4 | 1 | 1 | 6 | 20 | 4 | 13 | 16 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| July | 4.1 | N. | 16 | SW. | 0 | 21 | 6 | 1 | 1 | 3 | 3 | 2 | 21 | 4 | 11 | 16 | 4 | 4 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| August | 3.8 | NW. | 16 | N. | 0 | 19 | 7 | 4 | 1 | 1 | 0 | 1 | 23 | 6 | 21 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| September | 3.4 | NW. | 19 | SW. | 0 | 11 | 3 | 4 | 1 | 4 | 6 | 4 | 19 | 8 | 18 | 10 | 2 | 6 | 4 | 0 | 0 | 2 | 0 | 6 | 0 | 1 | 0 |
| October | 2.5 | NW. | 20 | S. | 0 | 12 | 2 | 4 | 11 | 7 | 6 | 8 | 9 | 3 | 9 | 10 | 12 | 13 | 10 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| November | 2.8 | S. | 19 | NE. | 0 | 4 | 6 | 4 | 14 | 12 | 4 | 5 | 10 | 1 | 1 | 5 | 24 | 24 | 20 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 |
| December | 2.5 | S. | 18 | N. | 0 | 6 | 5 | 5 | 10 | 14 | 8 | 5 | 9 | 0 | 1 | 10 | 20 | 16 | 12 | 1 | 0 | 0 | 0 | 0 | 15 | 0 | 0 |
| Year | 3.4 | NW. | 34 | SW. | 0 | 149 | 49 | 33 | 78 | 84 | 55 | 45 | 184 | 53 | 100 | 143 | 122 | 138 | 111 | 7 | 1 | 13 | 2 | 10 | 49 | 1 | 0 |

ROSWELL, N. MEX.

[H=3,578 ft.; $h_t$= 9ft.; $h_r$=4 ft.; $h_a$=57 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 6.3 | SE. | 48 | NW. | 1 | 7 | 1 | 4 | 16 | 7 | 7 | 5 | 15 | 0 | 11 | 15 | 5 | 1 | 0 | 1 | 0 | 1 | 2 | 0 | 24 | 0 | 0 |
| February | 9.2 | SW. | 48 | NW. | 4 | 12 | 1 | 2 | 9 | 4 | 9 | 7 | 12 | 0 | 12 | 9 | 7 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 18 | 0 | 0 |
| March | 8.7 | N. | 36 | NW. | 0 | 19 | 3 | 4 | 7 | 3 | 10 | 7 | 9 | 0 | 12 | 12 | 7 | 4 | 4 | 3 | 0 | 0 | 1 | 0 | 13 | 0 | 0 |
| April | 9.5 | SW. | 42 | N. | 1 | 8 | 6 | 3 | 6 | 10 | 10 | 10 | 5 | 2 | 21 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 0 | 0 |
| May | 7.6 | S. | 50 | N. | 1 | 8 | 5 | 6 | 11 | 12 | 6 | 8 | 6 | 0 | 13 | 17 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 3 | 2 | 2 | 0 |
| June | 6.2 | S. | 34 | NE. | 0 | 6 | 5 | 6 | 4 | 18 | 14 | 3 | 4 | 0 | 9 | 17 | 4 | 5 | 5 | 0 | 0 | 0 | 0 | 21 | 0 | 10 | 0 |
| July | 5.1 | S. | 31 | N. | 0 | 7 | 6 | 1 | 11 | 20 | 7 | 6 | 4 | 0 | 10 | 18 | 3 | 7 | 6 | 0 | 0 | 0 | 0 | 25 | 0 | 6 | 0 |
| August | 4.5 | S. | 25 | SW. | 0 | 4 | 4 | 0 | 11 | 22 | 15 | 1 | 5 | 0 | 15 | 12 | 4 | 5 | 4 | 0 | 0 | 0 | 0 | 16 | 0 | 5 | 0 |
| September | 4.6 | SW. | 22 | N. | 0 | 8 | 2 | 1 | 9 | 11 | 22 | 3 | 4 | 0 | 20 | 9 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| October | 5.5 | S. | 33 | NW. | 0 | 11 | 6 | 2 | 3 | 16 | 11 | 2 | 11 | 0 | 23 | 6 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 |
| November | 6.5 | SE. | 32 | NW. | 0 | 7 | 4 | 2 | 14 | 11 | 5 | 9 | 8 | 0 | 16 | 10 | 4 | 4 | 3 | 2 | 0 | 1 | 0 | 0 | 10 | 0 | 0 |
| December | 5.9 | N. | 39 | NW. | 0 | 17 | 2 | 1 | 11 | 8 | 7 | 7 | 8 | 1 | 12 | 13 | 6 | 3 | 3 | 3 | 0 | 0 | 5 | 0 | 30 | 0 | 0 |
| Year | 6.6 | S. | 50 | N. | 7 | 114 | 45 | 32 | 112 | 142 | 123 | 68 | 91 | 3 | 174 | 147 | 44 | 34 | 28 | 10 | 0 | 2 | 8 | 69 | 105 | 26 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

SACRAMENTO, CAL.

[$\phi$=38° 35′ N.; $\lambda$=121° 30′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.918 | 30.202 | 29.486 | 48.4 | 52.8 | 54.8 | 46.3 | 50.6 | 63 | 35 | 46 | 48 | 91 | 84 | 0.315 | 0.339 | 9.65 | 1.66 | 8.2 | 7.4 | 7.7 |
| February | 30.005 | 30.282 | 29.526 | 45.8 | 53.8 | 54.8 | 44.1 | 49.4 | 65 | 37 | 42 | 44 | 87 | 71 | .269 | .294 | 6.68 | 2.37 | 5.9 | 5.9 | 6.4 |
| March | 29.950 | 30.241 | 29.502 | 45.8 | 56.9 | 58.5 | 44.2 | 51.4 | 66 | 37 | 39 | 42 | 77 | 60 | .237 | .273 | 1.84 | .62 | 3.9 | 5.4 | 5.1 |
| April | 29.943 | 30.217 | 29.648 | 51.6 | 71.1 | 72.8 | 49.5 | 61.2 | 84 | 43 | 44 | 44 | 70 | 40 | .292 | .294 | T. | T. | 1.9 | 1.6 | 1.9 |
| May | 29.862 | 30.124 | 29.697 | 51.0 | 73.3 | 75.1 | 50.1 | 62.6 | 94 | 44 | 45 | 44 | 79 | 37 | .297 | .295 | T. | T. | 1.5 | 2.3 | 1.7 |
| June | 29.817 | 29.980 | 29.541 | 55.3 | 79.6 | 81.5 | 54.8 | 68.2 | 98 | 50 | 48 | 51 | 78 | 39 | .335 | .390 | .03 | .03 | 1.8 | 1.7 | 1.6 |
| July | 29.809 | 29.970 | 29.630 | 57.4 | 85.2 | 87.1 | 56.7 | 71.9 | 101 | 52 | 50 | 54 | 77 | 36 | .357 | .429 | 0 | 0 | .5 | .2 | .4 |
| August | 29.786 | 29.886 | 29.602 | 57.6 | 85.6 | 87.5 | 56.2 | 71.8 | 99 | 50 | 48 | 51 | 72 | 32 | .334 | .376 | 0 | 0 | .4 | .1 | .3 |
| September | 29.841 | 30.105 | 29.686 | 59.0 | 80.6 | 83.1 | 56.7 | 69.9 | 98 | 47 | 46 | 48 | 67 | 36 | .315 | .345 | .21 | .13 | 1.0 | 1.9 | 1.6 |
| October | 29.961 | 30.147 | 29.667 | 52.8 | 70.0 | 72.4 | 50.7 | 61.6 | 87 | 42 | 48 | 49 | 84 | 51 | .333 | .353 | 1.27 | .79 | 2.6 | 3.1 | 3.5 |
| November | 30.031 | 30.342 | 29.661 | 48.1 | 59.3 | 61.2 | 45.6 | 53.4 | 76 | 34 | 44 | 45 | 86 | 60 | .298 | .310 | 1.32 | .77 | 3.5 | 5.6 | 5.6 |
| December | 29.967 | 30.298 | 29.544 | 40.9 | 48.2 | 50.1 | 37.9 | 44.0 | 60 | 29 | 38 | 40 | 88 | 76 | .227 | .252 | 3.87 | 1.33 | 3.5 | 5.1 | 6.3 |
| Year | 29.908 | 30.342 | 29.486 | 51.1 | 68.0 | 69.9 | 49.4 | 59.7 | 101 | 29 | 45 | 47 | 80 | 52 | .301 | .328 | 24.87 | 2.37 | 2.9 | 3.4 | 3.5 |

ST. LOUIS, MO.

[$\phi$=38° 38′ N.; $\lambda$=90° 12′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.532 | 29.965 | 28.651 | 30.1 | 34.6 | 40.5 | 25.2 | 32.8 | 73 | −1 | 26 | 28 | 83 | 76 | 0.165 | 0.181 | 3.20 | 1.35 | 7.0 | 5.7 | 8.2 |
| February | 29.318 | 29.940 | 28.574 | 34.8 | 42.3 | 48.3 | 30.6 | 39.4 | 65 | 13 | 29 | 31 | 79 | 65 | .169 | .181 | 3.94 | .98 | 6.1 | 4.1 | 5.8 |
| March | 29.327 | 29.806 | 28.735 | 37.7 | 47.2 | 52.4 | 35.0 | 43.7 | 73 | 19 | 31 | 34 | 77 | 60 | .178 | .199 | 3.69 | 2.27 | 5.7 | 5.4 | 7.2 |
| April | 29.348 | 29.809 | 28.687 | 48.6 | 58.6 | 64.2 | 44.3 | 54.2 | 85 | 29 | 38 | 39 | 67 | 50 | .246 | .259 | 6.18 | 2.07 | 4.6 | 4.7 | 5.1 |
| May | 29.276 | 29.602 | 28.965 | 58.1 | 68.0 | 72.1 | 54.9 | 63.5 | 87 | 35 | 48 | 49 | 72 | 52 | .364 | .373 | 5.99 | 2.17 | 4.8 | 4.5 | 5.3 |
| June | 29.365 | 29.662 | 29.108 | 70.1 | 78.2 | 83.2 | 66.7 | 75.0 | 92 | 57 | 63 | 64 | 78 | 62 | .574 | .598 | 2.63 | .76 | 4.9 | 5.8 | 6.8 |
| July | 29.356 | 29.691 | 29.087 | 72.5 | 81.6 | 84.8 | 69.2 | 77.0 | 96 | 57 | 65 | 65 | 77 | 58 | .622 | .627 | 7.34 | 2.27 | 4.3 | 3.3 | 4.7 |
| August | 29.407 | 29.645 | 29.098 | 74.0 | 85.4 | 90.1 | 72.1 | 81.1 | 98 | 56 | 64 | 62 | 71 | 48 | .615 | .583 | .66 | .42 | 2.0 | 2.6 | 2.7 |
| September | 29.474 | 29.850 | 28.842 | 61.2 | 71.5 | 77.3 | 59.3 | 68.3 | 92 | 43 | 55 | 56 | 80 | 60 | .449 | .467 | 4.22 | 1.70 | 2.7 | 3.7 | 3.6 |
| October | 29.470 | 29.879 | 29.116 | 48.4 | 60.6 | 65.7 | 46.8 | 56.2 | 87 | 32 | 41 | 44 | 76 | 57 | .271 | .303 | 3.40 | 1.44 | 3.3 | 3.0 | 3.8 |
| November | 29.496 | 29.862 | 28.948 | 50.4 | 55.9 | 63.2 | 45.6 | 54.4 | 78 | 24 | 43 | 44 | 77 | 65 | .298 | .304 | 4.36 | 2.00 | 5.9 | 5.1 | 6.2 |
| December | 29.442 | 29.891 | 29.050 | 23.3 | 28.1 | 33.3 | 19.4 | 26.4 | 62 | −1 | 20 | 22 | 86 | 77 | .128 | .135 | 1.89 | .46 | 6.6 | 5.1 | 8.2 |
| Year | 29.401 | 29.965 | 28.574 | 50.8 | 59.3 | 64.6 | 47.4 | 56.0 | 98 | −1 | 44 | 45 | 77 | 61 | .340 | .351 | 47.50 | 2.27 | 4.8 | 4.4 | 5.6 |

ST. PAUL, MINN.

[$\phi$=44° 58′ N.; $\lambda$=93° 03′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.187 | 29.671 | 28.503 | 11.5 | 17.7 | 22.7 | 6.2 | 14.4 | 43 | −27 | 7 | 11 | 81 | 72 | 0.078 | 0.089 | 1.56 | 1.05 | 4.5 | 5.2 | 5.4 |
| February | 29.010 | 29.666 | 28.288 | 13.4 | 21.6 | 26.4 | 10.1 | 18.2 | 46 | −12 | 9 | 15 | 81 | 72 | .072 | .090 | 2.18 | .90 | 7.2 | 6.0 | 5.1 |
| March | 29.043 | 29.581 | 28.504 | 25.0 | 31.9 | 35.1 | 22.9 | 29.0 | 49 | 2 | 20 | 22 | 79 | 65 | .108 | .120 | .49 | .24 | 6.3 | 5.6 | 5.0 |
| April | 29.022 | 29.427 | 28.595 | 33.8 | 42.4 | 46.4 | 30.7 | 38.6 | 65 | 18 | 27 | 28 | 74 | 57 | .146 | .159 | 2.42 | .61 | 5.8 | 6.0 | 5.5 |
| May | 28.960 | 29.236 | 28.431 | 48.6 | 61.4 | 65.6 | 46.0 | 55.8 | 88 | 25 | 40 | 43 | 74 | 54 | .264 | .303 | 3.37 | .80 | 5.7 | 5.9 | 5.1 |
| June | 29.079 | 29.362 | 28.800 | 61.0 | 71.2 | 76.2 | 57.3 | 66.8 | 88 | 45 | 55 | 56 | 82 | 61 | .450 | .469 | 4.41 | 1.46 | 5.3 | 5.5 | 4.9 |
| July | 29.057 | 29.306 | 28.608 | 64.7 | 76.9 | 80.1 | 61.6 | 70.8 | 92 | 55 | 58 | 59 | 80 | 56 | .492 | .514 | 3.66 | 2.51 | 5.0 | 3.3 | 3.9 |
| August | 29.099 | 29.453 | 28.795 | 65.9 | 78.4 | 82.0 | 63.9 | 73.2 | 92 | 48 | 60 | 61 | 82 | 58 | .527 | .563 | 2.89 | 1.00 | 4.4 | 3.9 | 3.9 |
| September | 29.163 | 29.681 | 28.702 | 53.4 | 64.2 | 69.8 | 51.3 | 60.6 | 84 | 42 | 50 | 52 | 88 | 65 | .368 | .397 | 4.06 | 1.25 | 4.6 | 3.9 | 4.8 |
| October | 29.105 | 29.699 | 28.652 | 42.0 | 49.5 | 54.0 | 39.9 | 47.0 | 82 | 24 | 35 | 38 | 76 | 65 | .220 | .249 | 2.60 | 1.73 | 5.2 | 5.6 | 5.6 |
| November | 29.141 | 29.715 | 28.551 | 34.9 | 39.3 | 45.6 | 29.5 | 37.6 | 65 | 7 | 30 | 31 | 82 | 73 | .180 | .185 | 2.66 | 1.00 | 6.9 | 6.6 | 7.0 |
| December | 29.077 | 29.448 | 28.625 | 10.8 | 14.5 | 18.5 | 5.9 | 12.2 | 48 | −18 | 8 | 10 | 84 | 80 | .072 | .076 | 1.52 | .53 | 7.4 | 6.7 | 7.0 |
| Year | 29.079 | 29.715 | 28.288 | 38.8 | 47.4 | 51.9 | 35.4 | 43.7 | 92 | −27 | 33 | 36 | 80 | 65 | .248 | .268 | 31.82 | 2.51 | 5.7 | 5.4 | 5.3 |

SALT LAKE CITY UTAH.

[$\phi$=40° 46′ N.; $\lambda$=111° 54′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 25.551 | 26.032 | 25.118 | 35.9 | 40.2 | 45.5 | 30.8 | 38.2 | 56 | 8 | 25 | 27 | 64 | 61 | 0.137 | 0.155 | 2.70 | 0.53 | 5.4 | 5.9 | 6.2 |
| February | 25.567 | 25.904 | 25.081 | 32.0 | 38.9 | 43.1 | 28.7 | 35.9 | 56 | 17 | 24 | 24 | 70 | 54 | .126 | .127 | 1.89 | .76 | 4.5 | 7.4 | 6.4 |
| March | 25.524 | 25.863 | 25.226 | 36.3 | 45.9 | 49.4 | 33.1 | 41.2 | 60 | 19 | 26 | 28 | 66 | 50 | .140 | .154 | 2.85 | .76 | 4.3 | 5.2 | 5.3 |
| April | 25.574 | 26.092 | 25.207 | 40.3 | 52.1 | 55.6 | 36.0 | 45.8 | 70 | 26 | 26 | 25 | 57 | 37 | .139 | .134 | 1.60 | .41 | 5.2 | 5.6 | 4.5 |
| May | 25.524 | 25.836 | 25.242 | 46.8 | 61.1 | 64.4 | 42.5 | 53.4 | 80 | 31 | 30 | 30 | 55 | 34 | .175 | .174 | 2.34 | .79 | 4.2 | 5.1 | 3.9 |
| June | 25.564 | 25.714 | 25.326 | 60.9 | 78.3 | 81.7 | 58.1 | 69.9 | 95 | 44 | 38 | 39 | 45 | 26 | .236 | .239 | .17 | .12 | 2.6 | 3.9 | 2.9 |
| July | 25.576 | 25.805 | 25.222 | 65.5 | 83.5 | 87.0 | 62.2 | 74.6 | 101 | 52 | 42 | 43 | 45 | 26 | .280 | .288 | .75 | .41 | 1.5 | 2.7 | 2.3 |
| August | 25.614 | 25.766 | 25.491 | 67.5 | 81.7 | 87.0 | 64.0 | 75.5 | 95 | 56 | 49 | 50 | 53 | 37 | .351 | .374 | 1.74 | .75 | 3.3 | 4.8 | 4.4 |
| September | 25.679 | 25.944 | 25.366 | 54.8 | 68.5 | 74.6 | 51.8 | 63.2 | 84 | 38 | 40 | 42 | 59 | 42 | .259 | .285 | 1.55 | .43 | 2.8 | 4.0 | 3.7 |
| October | 25.680 | 26.011 | 25.338 | 47.3 | 59.2 | 65.5 | 43.3 | 54.4 | 78 | 28 | 30 | 32 | 53 | 38 | .171 | .186 | 1.13 | .50 | 1.9 | 3.1 | 3.8 |
| November | 25.641 | 26.003 | 25.233 | 40.7 | 44.9 | 52.3 | 35.7 | 44.0 | 69 | 24 | 31 | 32 | 68 | 63 | .176 | .186 | 1.46 | .53 | 3.7 | 6.2 | 6.6 |
| December | 25.651 | 26.038 | 25.158 | 21.8 | 25.9 | 30.0 | 18.1 | 24.0 | 48 | 4 | 17 | 21 | 82 | 81 | .095 | .113 | 1.50 | .59 | 4.8 | 5.7 | 6.8 |
| Year | 25.595 | 26.092 | 25.081 | 45.8 | 56.7 | 61.3 | 42.0 | 51.7 | 101 | 4 | 32 | 33 | 60 | 46 | .190 | .201 | 19.68 | .79 | 3.7 | 5.0 | 4.7 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

SACRAMENTO, CAL.

[H=69 ft.; $h_t$=106 ft.; $h_r$=100 ft.; $h_a$=117 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Number of winds, 8 p. 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. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 11.7 | SE. | 48 | SE. | 1 | 7 | 3 | 3 | 27 | 16 | 3 | 3 | 0 | 0 | 2 | 10 | 19 | 25 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 10.2 | SE. | 44 | S. | 1 | 4 | 0 | 3 | 24 | 12 | 3 | 2 | 8 | 0 | 6 | *7 | 15 | 17 | 14 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| March | 9.7 | S. | 39 | S. | 0 | 6 | 6 | 2 | 16 | 12 | 9 | 2 | 9 | 0 | 14 | 5 | 12 | 11 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 8.4 | NW. | 34 | NW. | 0 | 6 | 1 | 0 | 14 | 14 | 5 | 0 | 19 | 1 | 22 | 7 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| May | 9.0 | S. | 27 | SW. | 0 | 4 | 0 | 1 | 16 | 25 | 4 | 2 | 10 | 0 | 27 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| June | 9.2 | S. | 30 | SW. | 0 | 0 | 1 | 2 | 15 | 30 | 5 | 0 | 6 | 1 | 25 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| July | 8.4 | S. | 30 | SW. | 0 | 0 | 2 | 1 | 17 | 30 | 7 | 1 | 4 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 0 |
| August | 8.5 | S. | 24 | SW. | 0 | 0 | 1 | 0 | 18 | 41 | 1 | 0 | 1 | 0 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 0 |
| September | 8.1 | S. | 32 | NW. | 0 | 5 | 0 | 2 | 16 | 19 | 4 | 1 | 13 | 0 | 23 | 5 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 |
| October | 6.1 | SE. | 24 | S. | 0 | 8 | 5 | 2 | 18 | 13 | 4 | 1 | 10 | 1 | 15 | 13 | 3 | 5 | 4 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| November | 7.0 | SE. | 27 | NW. | 0 | 4 | 3 | 4 | 17 | 16 | 5 | 1 | 10 | 0 | 12 | 4 | 14 | 14 | 5 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| December | 8.8 | SE. | 48 | SE. | 3 | 11 | 5 | 1 | 21 | 7 | 2 | 0 | 15 | 0 | 8 | 8 | 15 | 13 | 11 | 0 | 0 | 6 | 0 | 0 | 2 | 0 | 0 |
| Year | 8.8 | S. | 48 | SE. | 5 | 55 | 27 | 21 | 219 | 235 | 52 | 13 | 105 | 3 | 215 | 65 | 85 | 89 | 69 | 0 | 1 | 13 | 0 | 38 | 2 | 1 | 0 |

ST. LOUIS, MO.

[H=567 ft.; $h_t$=208 ft.; $h_r$=199 ft.; $h_a$=217 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 11.7 | S. | 52 | NW. | 2 | 6 | 10 | 3 | 11 | 17 | 4 | 2 | 9 | 0 | 3 | 5 | 23 | 11 | 7 | 5 | 0 | 0 | 10 | 0 | 20 | 1 | 0 |
| February | 13.3 | S. | 40 | NW. | 2 | 4 | 4 | 4 | 9 | 8 | 9 | 8 | 10 | 0 | 9 | 7 | 12 | 13 | 11 | 2 | 0 | 0 | 2 | 0 | 16 | 3 | 0 |
| March | 11.9 | NW. | 45 | NW. | 2 | 7 | 11 | 2 | 11 | 4 | 3 | 6 | 18 | 0 | 5 | 8 | 18 | 9 | 7 | 1 | 0 | 1 | 0 | 0 | 9 | 5 | 0 |
| April | 13.8 | S. | 41 | SW. | 3 | 6 | 5 | 1 | 12 | 14 | 11 | 2 | 9 | 0 | 12 | 9 | 9 | 11 | 9 | 0 | 2 | 0 | 0 | 0 | 2 | 7 | 0 |
| May | 11.1 | SE. | 36 | W. | 0 | 7 | 7 | 6 | 20 | 7 | 7 | 6 | 2 | 0 | 11 | 11 | 9 | 9 | 9 | 0 | 2 | 0 | 0 | 0 | 0 | 5 | 0 |
| June | 8.4 | SW. | 42 | S. | 1 | 2 | 9 | 8 | 9 | 4 | 11 | 8 | 9 | 0 | 2 | 15 | 13 | 10 | 7 | 0 | 1 | 0 | 0 | 1 | 0 | 10 | 0 |
| July | 8.7 | SE. | 44 | N. | 1 | 3 | 7 | 11 | 15 | 7 | 5 | 6 | 8 | 0 | 10 | 16 | 5 | 13 | 9 | 0 | 0 | 0 | 0 | 6 | 0 | 10 | 0 |
| August | 7.2 | E. | 32 | SW. | 0 | 7 | 5 | 16 | 15 | 1 | 10 | 6 | 2 | 0 | 19 | 11 | 1 | 4 | 4 | 0 | 0 | 0 | 0 | 15 | 0 | 9 | 0 |
| September | 8.7 | SE. | 27 | W. | 0 | 7 | 10 | 11 | 18 | 6 | 2 | 4 | 2 | 0 | 16 | 7 | 7 | 8 | 6 | 0 | 1 | 0 | 0 | 2 | 0 | 3 | 0 |
| October | 10.0 | SE. | 40 | NW. | 1 | 2 | 6 | 7 | 15 | 8 | 8 | 10 | 5 | 1 | 17 | 8 | 6 | 11 | 10 | 0 | 1 | 0 | 0 | 0 | 1 | 5 | 0 |
| November | 12.1 | S. | 34 | NW. | 0 | 2 | 6 | 4 | 15 | 13 | 9 | 5 | 6 | 0 | 10 | 7 | 13 | 9 | 8 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 0 |
| December | 11.8 | W. | 42 | W. | 1 | 2 | 2 | 0 | 13 | 6 | 5 | 17 | 17 | 0 | 4 | 3 | 24 | 13 | 10 | 6 | 0 | 1 | 18 | 0 | 27 | 0 | 0 |
| Year | 10.7 | SE. | 52 | NW. | 13 | 55 | 82 | 73 | 163 | 95 | 84 | 80 | 97 | 1 | 118 | 107 | 140 | 121 | 97 | 14 | 7 | 2 | 30 | 24 | 78 | 62 | 0 |

ST. PAUL, MINN.

[H=837 ft.; $h_t$=171 ft.; $h_r$=163 ft.; $h_a$=179 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 11.6 | SE. | 54 | N. | 1 | 3 | 3 | 7 | 16 | 8 | 8 | 5 | 12 | 0 | 8 | 13 | 10 | 6 | 5 | 6 | 0 | 2 | 19 | 0 | 28 | 0 | 0 |
| February | 10.8 | N. | 40 | NW. | 1 | 15 | 3 | 6 | 9 | 3 | 2 | 4 | 14 | 0 | 6 | 17 | 5 | 9 | 5 | 9 | 0 | 0 | 18 | 0 | 28 | 0 | 0 |
| March | 11.7 | NW. | 38 | NW. | 0 | 9 | 0 | 3 | 10 | 4 | 4 | 10 | 22 | 0 | 7 | 19 | 5 | 8 | 5 | 7 | 0 | 0 | 11 | 0 | 28 | 0 | 1 |
| April | 13.2 | NW. | 50 | NW. | 5 | 13 | 3 | 8 | 12 | 4 | 2 | 1 | 17 | 0 | 6 | 19 | 5 | 11 | 10 | 6 | 0 | 0 | 1 | 0 | 15 | 2 | 0 |
| May | 11.1 | E. | 50 | NW. | 1 | 8 | 6 | 13 | 9 | 8 | 2 | 4 | 12 | 0 | 7 | 18 | 6 | 13 | 9 | 1 | 0 | 0 | 0 | 0 | 4 | 2 | 0 |
| June | 7.7 | E. | 36 | NW. | 0 | 11 | 5 | 10 | 8 | 11 | 7 | 3 | 5 | 0 | 10 | 14 | 6 | 9 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 1 |
| July | 8.9 | S. | 35 | SW. | 0 | 9 | 3 | 11 | 9 | 9 | 7 | 3 | 11 | 0 | 14 | 12 | 5 | 6 | 4 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| August | 8.9 | E. | 38 | NW. | 0 | 12 | 4 | 14 | 9 | 12 | 3 | 1 | 7 | 0 | 13 | 15 | 3 | 11 | 10 | 0 | 0 | 2 | 0 | 3 | 0 | 10 | 2 |
| September | 8.3 | E. | 40 | NW. | 1 | 2 | 2 | 16 | 10 | 5 | 11 | 8 | 6 | 0 | 13 | 9 | 8 | 13 | 13 | 0 | 0 | 1 | 0 | 0 | 0 | 7 | 0 |
| October | 11.5 | SE. | 50 | NW. | 2 | 8 | 5 | 8 | 14 | 5 | 0 | 12 | 10 | 0 | 11 | 8 | 12 | 7 | 6 | 1 | 0 | 0 | 1 | 0 | 7 | 2 | 1 |
| November | 11.5 | SE. | 42 | SE. | 2 | 13 | 2 | 7 | 15 | 6 | 3 | 3 | 11 | 0 | 4 | 11 | 15 | 9 | 6 | 3 | 0 | 1 | 6 | 0 | 17 | 0 | 0 |
| December | 10.9 | NW. | 36 | SW. | 0 | 6 | 1 | 8 | 6 | 4 | 7 | 13 | 17 | 0 | 6 | 8 | 17 | 12 | 9 | 10 | 0 | 0 | 28 | 0 | 29 | 0 | 0 |
| Year | 10.5 | NW. | 54 | N. | 13 | 109 | 37 | 111 | 127 | 79 | 56 | 67 | 144 | 0 | 105 | 163 | 97 | 114 | 90 | 43 | 0 | 6 | 84 | 5 | 156 | 33 | 5 |

SALT LAKE CITY, UTAH.

[H=4,360 ft.; $h_t$=147 ft.; $h_r$=141 ft.; $h_a$=189 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 6.6 | SE. | 40 | W. | 1 | 3 | 2 | 5 | 19 | 17 | 2 | 3 | 6 | 5 | 9 | 7 | 15 | 15 | 12 | 6 | 1 | 1 | 2 | 0 | 15 | 3 | 0 |
| February | 7.1 | SE. | 38 | NW. | 0 | 4 | 1 | 4 | 15 | 11 | 3 | 6 | 12 | 0 | 6 | 9 | 13 | 6 | 6 | 5 | 2 | 1 | 1 | 0 | 21 | 1 | 0 |
| March | 6.4 | SE. | 30 | NE. | 0 | 3 | 7 | 6 | 16 | 6 | 5 | 6 | 12 | 1 | 9 | 11 | 11 | 12 | 12 | 7 | 2 | 0 | 0 | 0 | 11 | 1 | 0 |
| April | 7.5 | NW. | 37 | NW. | 0 | 7 | 2 | 4 | 19 | 6 | 2 | 4 | 16 | 0 | 15 | 8 | 7 | 11 | 8 | 4 | 1 | 0 | 0 | 0 | 9 | 1 | 0 |
| May | 6.6 | NW. | 36 | W. | 0 | 7 | 3 | 4 | 15 | 5 | 2 | 6 | 20 | 0 | 16 | 11 | 4 | 8 | 7 | 0 | 2 | 0 | 0 | 0 | 1 | 3 | 0 |
| June | 6.2 | SE. | 33 | W. | 0 | 1 | 5 | 8 | 15 | 12 | 0 | 1 | 18 | 0 | 19 | 9 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 |
| July | 8.5 | NW. | 50 | E. | 3 | 4 | 8 | 4 | 17 | 11 | 0 | 2 | 16 | 0 | 20 | 9 | 2 | 7 | 6 | 0 | 0 | 0 | 0 | 10 | 0 | 7 | 0 |
| August | 7.4 | SE. | 40 | SE. | 1 | 6 | 2 | 5 | 15 | 15 | 6 | 3 | 10 | 0 | 11 | 16 | 4 | 11 | 8 | 0 | 0 | 0 | 0 | 8 | 0 | 15 | 0 |
| September | 7.2 | SE. | 43 | SE. | 3 | 6 | 4 | 3 | 18 | 9 | 1 | 1 | 18 | 0 | 12 | 16 | 2 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| October | 6.6 | SE. | 36 | NW. | 0 | 5 | 6 | 5 | 15 | 9 | 2 | 1 | 19 | 0 | 16 | 12 | 3 | 7 | 6 | 1 | 0 | 0 | 0 | 0 | 2 | 2 | 0 |
| November | 6.3 | SE. | 48 | S. | 1 | 11 | 5 | 3 | 16 | 9 | 4 | 0 | 12 | 0 | 8 | 5 | 17 | 8 | 7 | 3 | 0 | 0 | 0 | 0 | 13 | 0 | 0 |
| December | 5.5 | SE. | 35 | S. | 0 | 5 | 5 | 4 | 17 | 15 | 2 | 5 | 9 | 0 | 7 | 12 | 12 | 11 | 7 | 10 | 0 | 2 | 24 | 0 | 30 | 0 | 0 |
| Year | 6.8 | SE. | 50 | E. | 9 | 62 | 50 | 55 | 197 | 125 | 29 | 38 | 168 | 6 | 148 | 125 | 92 | 106 | 86 | 36 | 8 | 4 | 27 | 24 | 102 | 45 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

SAN ANTONIO, TEX.

[$\phi$=29° 27′ N.; $\lambda$=98° 28′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.379 | 29.865 | 29.046 | 49.9 | 61.2 | 66.9 | 47.4 | 57.2 | 83 | 20 | 45 | 42 | 85 | 51 | 0.340 | 0.295 | 0.10 | 0.10 | 6.4 | 4.2 | 5.7 |
| February | 29.288 | 29.784 | 28.731 | 50.3 | 65.4 | 70.1 | 46.8 | 58.4 | 88 | 21 | 40 | 37 | 71 | 38 | .286 | .249 | .71 | .70 | 5.2 | 4.1 | 4.5 |
| March | 29.168 | 29.612 | 28.760 | 55.4 | 72.9 | 77.6 | 53.4 | 65.5 | 93 | 38 | 44 | 41 | 69 | 36 | .318 | .281 | .88 | .62 | 5.6 | 5.2 | 4.6 |
| April | 29.214 | 29.713 | 28.806 | 59.6 | 75.6 | 80.2 | 57.5 | 68.8 | 96 | 42 | 53 | 48 | 83 | 42 | .443 | .373 | .82 | .49 | 6.5 | 4.6 | 4.5 |
| May | 29.109 | 29.513 | 28.806 | 66.6 | 81.7 | 85.5 | 64.8 | 75.2 | 95 | 47 | 62 | 60 | 87 | 50 | .590 | .548 | 1.77 | .59 | 6.2 | 4.6 | 5.3 |
| June | 29.186 | 29.391 | 29.037 | 74.1 | 88.4 | 93.5 | 72.0 | 82.8 | 100 | 63 | 71 | 64 | 89 | 45 | .752 | .596 | 1.65 | 1.12 | 4.5 | 3.9 | 4.1 |
| July | 29.190 | 29.392 | 29.004 | 76.5 | 90.9 | 96.6 | 75.0 | 85.8 | 102 | 70 | 72 | 68 | 87 | 50 | .791 | .702 | 3.27 | 2.89 | 5.2 | 4.0 | 3.8 |
| August | 29.211 | 29.367 | 28.991 | 75.2 | 89.9 | 95.5 | 73.4 | 84.4 | 107 | 70 | 70 | 65 | 85 | 48 | .739 | .636 | 1.70 | .65 | 3.1 | 3.8 | 3.7 |
| September | 29.269 | 29.508 | 28.869 | 68.6 | 84.1 | 90.5 | 67.5 | 79.0 | 100 | 51 | 60 | 58 | 77 | 43 | .570 | .506 | .56 | .37 | 2.3 | 2.7 | 3.2 |
| October | 29.321 | 29.580 | 29.020 | 60.8 | 77.8 | 83.3 | 58.8 | 71.0 | 93 | 43 | 55 | 55 | 82 | 48 | .463 | .454 | 1.55 | 1.55 | 2.9 | 1.4 | 2.9 |
| November | 29.342 | 29.757 | 29.053 | 61.2 | 70.9 | 78.1 | 48.3 | 63.2 | 86 | 39 | 56 | 55 | 85 | 59 | .484 | .458 | .55 | .38 | 5.6 | 3.2 | 4.8 |
| December | 29.362 | 29.671 | 28.963 | 41.3 | 52.6 | 57.9 | 37.7 | 47.8 | 81 | 24 | 34 | 39 | 76 | 63 | .220 | .261 | 1.38 | .82 | 5.1 | 4.3 | 5.4 |
| Year | 29.253 | 29.865 | 28.731 | 61.6 | 76.0 | 81.3 | 59.4 | 70.3 | 107 | 20 | 55 | 53 | 81 | 48 | .500 | .447 | 14.92 | 2.89 | 4.9 | 3.8 | 4.4 |

SAN DIEGO, CAL.

[$\phi$=32° 43′ N.; $\lambda$=117° 10′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.979 | 30.114 | 29.696 | 50.1 | 56.0 | 60.0 | 48.4 | 54.2 | 70 | 42 | 47 | 51 | 90 | 83 | 0.329 | 0.376 | 3.57 | 1.37 | 5.6 | 6.5 | 5.9 |
| February | 30.000 | 30.180 | 29.682 | 49.2 | 57.6 | 60.9 | 47.4 | 54.2 | 74 | 41 | 44 | 48 | 84 | 70 | .294 | .334 | 1.76 | .59 | 4.8 | 5.7 | 4.7 |
| March | 29.915 | 30.104 | 29.675 | 49.4 | 57.8 | 61.3 | 47.7 | 54.5 | 74 | 42 | 44 | 46 | 83 | 67 | .294 | .319 | 2.62 | .89 | 6.4 | 4.8 | 4.1 |
| April | 29.917 | 30.045 | 29.753 | 54.0 | 62.2 | 65.6 | 52.4 | 59.0 | 82 | 46 | 46 | 48 | 77 | 64 | .326 | .344 | .02 | .02 | 5.9 | 4.0 | 3.7 |
| May | 29.875 | 29.974 | 29.703 | 56.4 | 61.2 | 64.1 | 55.6 | 59.8 | 87 | 50 | 49 | 51 | 76 | 70 | .347 | .376 | T. | T. | 8.9 | 5.6 | 5.2 |
| June | 29.833 | 29.935 | 29.620 | 59.1 | 64.6 | 66.7 | 58.5 | 62.6 | 77 | 53 | 55 | 56 | 86 | 73 | .428 | .442 | T. | T. | 8.4 | 4.6 | 5.3 |
| July | 29.831 | 29.911 | 29.658 | 61.7 | 66.8 | 69.3 | 60.9 | 65.1 | 79 | 58 | 58 | 58 | 87 | 72 | .482 | .477 | T. | T. | 9.2 | 3.2 | 3.7 |
| August | 29.789 | 29.915 | 29.609 | 64.0 | 70.6 | 74.0 | 63.1 | 68.6 | 93 | 59 | 61 | 61 | 88 | 73 | .530 | .541 | T. | T. | 5.8 | 2.0 | 2.1 |
| September | 29.843 | 30.001 | 29.684 | 62.5 | 69.4 | 73.0 | 60.3 | 66.6 | 100 | 53 | 54 | 56 | 80 | 68 | .434 | .463 | .02 | .02 | 6.5 | 2.3 | 2.4 |
| October | 29.906 | 29.978 | 29.688 | 59.3 | 65.9 | 70.9 | 56.6 | 63.8 | 94 | 49 | 48 | 53 | 72 | 68 | .353 | .415 | 0 | 0 | 6.2 | 3.3 | 2.3 |
| November | 29.957 | 30.150 | 29.731 | 51.7 | 59.6 | 64.6 | 49.7 | 57.2 | 85 | 42 | 44 | 50 | 77 | 74 | .297 | .369 | 2.39 | .95 | 3.9 | 3.5 | 3.0 |
| December | 29.926 | 30.193 | 29.618 | 48.9 | 56.7 | 60.9 | 46.6 | 53.8 | 71 | 36 | 40 | 47 | 74 | 71 | .259 | .326 | 3.76 | 1.68 | 5.5 | 5.2 | 4.5 |
| Year | 29.898 | 30.193 | 29.609 | 55.5 | 62.4 | 65.9 | 53.9 | 60.0 | 100 | 36 | 49 | 52 | 81 | 71 | .364 | .398 | 14.14 | 1.68 | 6.4 | 4.2 | 3.9 |

SANDUSKY, OHIO.

[$\phi$=41° 25′ N.; $\lambda$=82° 40′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.422 | 29.886 | 28.502 | 30.1 | ..... | 37.7 | 24.9 | 31.3 | 65 | 2 | 26 | .... | 85 | .... | 0.158 | ..... | 2.52 | 0.55 | 7.4 | ..... | 7.1 |
| February | 29.232 | 29.917 | 28.761 | 28.6 | ..... | 38.8 | 25.1 | 32.0 | 58 | 2 | 25 | .... | 85 | .... | .139 | ..... | 4.44 | 1.50 | 6.7 | ..... | 6.8 |
| March | 29.207 | 29.712 | 28.683 | 31.7 | ..... | 41.1 | 26.3 | 35.2 | 64 | 21 | 27 | .... | 82 | .... | .148 | ..... | 2.16 | .87 | 7.6 | ..... | 6.1 |
| April | 29.293 | 29.820 | 28.714 | 44.4 | ..... | 55.1 | 37.8 | 46.4 | 80 | 23 | 36 | .... | 74 | .... | .229 | ..... | 2.50 | 1.05 | 6.3 | ..... | 6.3 |
| May | 29.243 | 29.591 | 28.944 | 54.6 | ..... | 64.5 | 49.6 | 57.0 | 83 | 33 | 47 | .... | 76 | .... | .336 | ..... | 5.22 | 1.85 | 3.9 | ..... | 4.9 |
| June | 29.318 | 29.560 | 29.021 | 66.0 | ..... | 75.5 | 61.7 | 68.6 | 88 | 50 | 59 | .... | 80 | .... | .523 | ..... | 4.98 | 1.39 | 5.6 | ..... | 5.3 |
| July | 29.296 | 29.679 | 28.933 | 69.0 | ..... | 79.6 | 63.9 | 71.8 | 93 | 57 | 60 | .... | 73 | .... | .522 | ..... | 6.52 | 3.36 | 3.3 | ..... | 3.9 |
| August | 29.358 | 29.668 | 29.023 | 68.9 | ..... | 80.0 | 65.6 | 72.8 | 93 | 52 | 60 | .... | 75 | .... | .540 | ..... | 1.48 | .78 | 3.9 | ..... | 3.0 |
| September | 29.423 | 29.707 | 29.067 | 59.7 | ..... | 70.9 | 55.8 | 63.4 | 86 | 41 | 52 | .... | 76 | .... | .404 | ..... | 1.03 | .57 | 4.0 | ..... | 4.7 |
| October | 29.410 | 29.911 | 28.993 | 43.8 | ..... | 55.9 | 41.5 | 48.7 | 76 | 30 | 37 | .... | 78 | .... | .226 | ..... | 1.56 | .72 | 3.8 | ..... | 4.5 |
| November | 29.464 | 29.862 | 28.956 | 45.3 | ..... | 55.5 | 41.2 | 48.4 | 73 | 31 | 39 | .... | 78 | .... | .251 | ..... | 3.67 | 1.31 | 6.2 | ..... | 5.9 |
| December | 29.289 | 29.694 | 28.832 | 22.1 | ..... | 30.3 | 18.2 | 24.2 | 66 | − 3 | 17 | .... | 81 | .... | .105 | ..... | 2.23 | .70 | 7.1 | ..... | 7.3 |
| Year | 29.330 | 29.917 | 28.502 | 47.0 | ..... | 57.1 | 42.9 | 50.0 | 93 | − 3 | 40 | .... | 79 | .... | .298 | ..... | 38.31 | 3.36 | 5.5 | ..... | 5.5 |

SAN FRANCISCO, CAL.

[$\phi$=37° 48′ N.; $\lambda$=122° 26′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.818 | 30.093 | 29.387 | 49.9 | 52.8 | 55.3 | 47.7 | 51.5 | 60 | 38 | 46 | 46 | 89 | 80 | 0.326 | 0.325 | 10.51 | 1.61 | 8.5 | 8.2 | 8.6 |
| February | 29.912 | 30.178 | 29.387 | 48.3 | 53.5 | 56.5 | 46.1 | 51.3 | 62 | 42 | 44 | 45 | 86 | 75 | .291 | .308 | 7.53 | 1.87 | 6.8 | 5.7 | 6.6 |
| March | 29.870 | 30.157 | 29.379 | 47.7 | 54.6 | 57.3 | 46.3 | 51.8 | 67 | 41 | 41 | 41 | 78 | 63 | .258 | .263 | 3.27 | 1.16 | 4.8 | 4.0 | 5.5 |
| April | 29.891 | 30.111 | 29.630 | 49.7 | 59.6 | 65.0 | 48.2 | 56.6 | 80 | 44 | 45 | 44 | 84 | 60 | .299 | .289 | T. | T. | 3.3 | 2.0 | 2.4 |
| May | 29.837 | 30.068 | 29.701 | 49.3 | 55.9 | 60.9 | 48.1 | 54.5 | 80 | 44 | 45 | 46 | 85 | 70 | .299 | .307 | T. | T. | 4.1 | 1.5 | 3.2 |
| June | 29.801 | 29.929 | 29.559 | 50.8 | 57.8 | 62.1 | 50.1 | 56.1 | 94 | 47 | 48 | 49 | 89 | 73 | .328 | .344 | T. | T. | 5.7 | 2.1 | 3.6 |
| July | 29.792 | 29.908 | 29.658 | 51.9 | 59.7 | 64.4 | 51.1 | 57.8 | 77 | 49 | 49 | 49 | 92 | 70 | .351 | .352 | T. | T. | 4.8 | .7 | 2.5 |
| August | 29.767 | 29.863 | 29.591 | 52.2 | 59.0 | 63.7 | 51.1 | 57.4 | 82 | 49 | 50 | 50 | 92 | 74 | .357 | .365 | 0 | 0 | 5.6 | 1.2 | 3.9 |
| September | 29.799 | 29.995 | 29.633 | 50.1 | 62.8 | 69.5 | 53.8 | 61.6 | 93 | 50 | 52 | 51 | 87 | 70 | .387 | .374 | .80 | .67 | 5.2 | 3.5 | 4.1 |
| October | 29.903 | 30.068 | 29.624 | 55.0 | 61.1 | 66.1 | 52.8 | 59.4 | 86 | 46 | 51 | 50 | 87 | 70 | .373 | .355 | 1.23 | .82 | 5.2 | 4.2 | 5.2 |
| November | 29.960 | 30.235 | 29.647 | 51.7 | 56.7 | 60.0 | 49.5 | 54.8 | 74 | 43 | 47 | 48 | 85 | 74 | .330 | .341 | 2.43 | .97 | 4.8 | 4.8 | 2.5 |
| December | 29.870 | 30.190 | 29.453 | 46.8 | 51.4 | 54.2 | 44.3 | 49.2 | 63 | 38 | 39 | 40 | 77 | 67 | .245 | .250 | 5.59 | 1.41 | 5.1 | 5.5 | 5.9 |
| Year | 29.852 | 30.235 | 29.379 | 50.8 | 57.1 | 61.2 | 49.1 | 55.2 | 94 | 38 | 46 | 47 | 86 | 70 | .320 | .323 | 31.36 | 1.87 | 5.3 | 3.6 | 4.5 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

SAN ANTONIO, TEX.

[H=701 ft.; $h_t$=80 ft.; $h_r$=72 ft.; $h_a$=91 ft.]

| Month. | Wind. | | | | | | | | | | | | | | Number of days. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | By self-register. | | | | | Number of winds, 8 a. m. and 8 p. m. | | | | | | | | | | | | Precipitation. | | | | | Maximum temp. | | Electricity. | |
| | Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Clear. | Partly cloudy. | Cloudy. | 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | 32° or below. | 90° or above. | Minimum temperature 32° or below. | Thunderstorms. | Auroras. |
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | |
| January | 7.8 | SE. | 42 | N. | 1 | 16 | 9 | 0 | 22 | 9 | 3 | 1 | 1 | 1 | 8 | 14 | 9 | 1 | 1 | 0 | 0 | 3 | 1 | 0 | 4 | 0 | 0 |
| February | 8.0 | SE. | 35 | N. | 0 | 7 | 4 | 4 | 17 | 9 | 4 | 1 | 10 | 0 | 13 | 7 | 8 | 2 | 1 | 0 | 1 | 1 | 0 | 0 | 4 | 1 | 0 |
| March | 8.1 | SE. | 30 | NW. | 0 | 8 | 13 | 6 | 14 | 7 | 5 | 1 | 7 | 1 | 13 | 12 | 6 | 6 | 4 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 0 |
| April | 8.6 | SE. | 33 | N. | 0 | 9 | 12 | 4 | 27 | 3 | 2 | 0 | 2 | 1 | 13 | 10 | 7 | 3 | 3 | 0 | 0 | 0 | 0 | 4 | 0 | 5 | 0 |
| May | 7.4 | SE. | 30 | NW. | 0 | 5 | 10 | 13 | 22 | 2 | 2 | 2 | 3 | 3 | 4 | 24 | 3 | 10 | 5 | 0 | 0 | 0 | 0 | 8 | 0 | 12 | 0 |
| June | 6.7 | SE. | 31 | N. | 0 | 3 | 8 | 8 | 33 | 6 | 0 | 0 | 0 | 2 | 9 | 21 | 0 | 5 | 4 | 0 | 0 | 0 | 0 | 26 | 0 | 5 | 0 |
| July | 7.1 | SE. | 28 | NE. | 0 | 0 | 2 | 8 | 46 | 5 | 0 | 0 | 0 | 1 | 15 | 15 | 1 | 5 | 4 | 0 | 0 | 0 | 0 | 30 | 0 | 4 | 0 |
| August | 5.4 | SE. | 32 | N. | 0 | 3 | 9 | 14 | 23 | 9 | 1 | 1 | 0 | 2 | 14 | 13 | 4 | 7 | 7 | 0 | 0 | 0 | 0 | 28 | 0 | 8 | 0 |
| September | 6.2 | SE. | 26 | N. | 0 | 16 | 11 | 0 | 24 | 4 | 1 | 0 | 1 | 3 | 17 | 11 | 2 | 5 | 3 | 0 | 0 | 0 | 0 | 20 | 0 | 4 | 0 |
| October | 5.8 | SE. | 36 | N. | 0 | 10 | 5 | 10 | 25 | 6 | 2 | 0 | 2 | 2 | 19 | 8 | 4 | 1 | 1 | 0 | 0 | 2 | 0 | 2 | 0 | 2 | 0 |
| November | 7.3 | SE. | 32 | NW. | 0 | 8 | 10 | 3 | 32 | 5 | 0 | 0 | 1 | 1 | 11 | 12 | 7 | 6 | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 |
| December | 7.6 | N. | 33 | N. | 0 | 22 | 10 | 5 | 10 | 5 | 4 | 1 | 5 | 0 | 12 | 8 | 11 | 8 | 5 | 0 | 0 | 2 | 1 | 0 | 7 | 1 | 0 |
| Year | 7.2 | SE. | 42 | N. | 1 | 107 | 103 | 75 | 295 | 70 | 24 | 7 | 32 | 17 | 148 | 155 | 62 | 59 | 41 | 0 | 1 | 10 | 2 | 120 | 15 | 46 | 0 |

SAN DIEGO, CAL.

[H=87 ft.; $h_t$=94 ft.; $h_r$=86 ft.; $h_a$=102 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 5.7 | NW. | 31 | SW. | 0 | 14 | 5 | 3 | 2 | 10 | 6 | 6 | 16 | 0 | 11 | 6 | 14 | 7 | 6 | 0 | 0 | 8 | 0 | 0 | 0 | 1 | 0 |
| February | 6.7 | NW. | 34 | NW. | 0 | 3 | 10 | 5 | 8 | 2 | 3 | 13 | 11 | 1 | 14 | 7 | 7 | 8 | 7 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| March | 6.8 | NW. | 38 | SW. | 0 | 4 | 7 | 15 | 4 | 2 | 3 | 9 | 18 | 0 | 16 | 8 | 7 | 11 | 8 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| April | 6.4 | NW. | 20 | NW. | 0 | 2 | 10 | 8 | 1 | 3 | 7 | 13 | 16 | 0 | 17 | 5 | 8 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| May | 6.4 | W. | 26 | NW. | 0 | 3 | 6 | 3 | 3 | 2 | 14 | 21 | 10 | 0 | 10 | 13 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 6.0 | SW. | 20 | NW. | 0 | 7 | 3 | 3 | 2 | 6 | 16 | 11 | 12 | 0 | 9 | 12 | 9 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| July | 5.8 | SW. | 19 | NW. | 0 | 7 | 6 | 2 | 1 | 2 | 24 | 7 | 13 | 0 | 18 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 5.9 | NW. | 23 | SE. | 0 | 13 | 4 | 0 | 1 | 1 | 6 | 6 | 28 | 3 | 26 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| September | 6.9 | NW. | 22 | NW. | 0 | 9 | 3 | 4 | 2 | 3 | 4 | 10 | 25 | 0 | 21 | 8 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 |
| October | 5.3 | NW. | 20 | NW. | 0 | 6 | 5 | 11 | 2 | 2 | 7 | 6 | 23 | 0 | 22 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| November | 5.6 | NW. | 24 | NW. | 0 | 8 | 11 | 11 | 1 | 4 | 4 | 4 | 17 | 0 | 21 | 4 | 5 | 5 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| December | 5.5 | NE. | 32 | SW. | 0 | 6 | 20 | 6 | 2 | 8 | 4 | 3 | 13 | 0 | 14 | 8 | 9 | 9 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Year | 6.0 | NW. | 38 | SW. | 0 | 82 | 90 | 71 | 29 | 45 | 98 | 109 | 202 | 4 | 199 | 92 | 74 | 42 | 33 | 0 | 1 | 25 | 0 | 4 | 0 | 2 | 0 |

SANDUSKY, OHIO.

[H=629 ft.; $h_t$=62 ft.; $h_r$=55 ft.; $h_a$=70 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 9.5 | SW. | 31 | N. | 0 | 4 | 2 | 0 | 3 | 2 | 11 | 4 | 5 | 0 | 6 | 7 | 18 | 14 | 12 | 7 | 0 | 2 | 10 | 0 | 23 | 2 | 0 |
| February | 9.8 | SW. | 33 | NW. | 0 | 0 | 2 | 2 | 3 | 3 | 8 | 8 | 2 | 0 | 7 | 7 | 14 | 12 | 7 | 7 | 0 | 1 | 8 | 0 | 24 | 0 | 0 |
| March | 10.4 | NW. | 33 | N. | 0 | 2 | 4 | 2 | 3 | 3 | 4 | 6 | 7 | 0 | 9 | 7 | 15 | 13 | 10 | 5 | 0 | 0 | 3 | 0 | 23 | 1 | 0 |
| April | 10.8 | SW. | 40 | W. | 1 | 1 | 4 | 3 | 0 | 6 | 9 | 6 | 1 | 0 | 5 | 12 | 13 | 11 | 6 | 2 | 2 | 0 | 1 | 0 | 6 | 4 | 0 |
| May | 8.9 | E. | 30 | W. | 0 | 2 | 4 | 5 | 2 | 3 | 7 | 6 | 2 | 0 | 11 | 10 | 10 | 14 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 |
| June | 6.5 | E. | 26 | N. | 0 | 2 | 4 | 8 | 1 | 3 | 7 | 5 | 0 | 0 | 9 | 9 | 12 | 12 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 |
| July | 7.6 | SW. | 36 | N. | 0 | 3 | 5 | 2 | 2 | 5 | 6 | 7 | 1 | 0 | 13 | 11 | 7 | 10 | 8 | 0 | 0 | 0 | 0 | 2 | 0 | 7 | 0 |
| August | 6.9 | NE. | 33 | N. | 0 | 6 | 4 | 4 | 3 | 7 | 4 | 3 | 0 | 0 | 18 | 10 | 3 | 8 | 6 | 0 | 0 | 0 | 0 | 1 | 0 | 6 | 0 |
| September | 8.2 | W. | 28 | N. | 0 | 3 | 3 | 2 | 2 | 5 | 9 | 4 | 1 | 1 | 11 | 11 | 8 | 9 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| October | 8.5 | SW. | 27 | N. | 0 | 1 | 2 | 0 | 4 | 6 | 6 | 12 | 0 | 0 | 11 | 11 | 9 | 9 | 3 | 0 | 0 | 2 | 0 | 0 | 3 | 0 | 1 |
| November | 9.5 | SW. | 34 | N. | 0 | 1 | 1 | 4 | 2 | 6 | 10 | 3 | 3 | 0 | 7 | 11 | 12 | 10 | 6 | 1 | 0 | 1 | 0 | 0 | 4 | 3 | 0 |
| December | 9.6 | SW. | 33 | W. | 0 | 0 | 0 | 6 | 2 | 1 | 11 | 10 | 1 | 0 | 5 | 7 | 19 | 13 | 9 | 11 | 0 | 0 | 21 | 0 | 27 | 0 | 0 |
| Year | 8.8 | SW. | 40 | W. | 1 | 25 | 35 | 38 | 27 | 50 | 92 | 74 | 23 | 1 | 112 | 113 | 140 | 135 | 95 | 33 | 2 | 7 | 43 | 3 | 110 | 44 | 1 |

SAN FRANCISCO, CAL.

[H=155 ft.; $h_t$=200 ft.; $h_r$=191 ft.; $h_a$=204 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 10.1 | S. | 48 | SW. | 3 | 1 | 5 | 2 | 6 | 17 | 18 | 5 | 8 | 0 | 2 | 6 | 23 | 26 | 23 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 |
| February | 7.8 | W. | 34 | SW. | 0 | 1 | 1 | 3 | 4 | 18 | 5 | 15 | 9 | 0 | 4 | 11 | 13 | 18 | 17 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 0 |
| March | 7.4 | W. | 34 | SE. | 0 | 5 | 4 | 1 | 3 | 7 | 7 | 26 | 9 | 0 | 11 | 9 | 11 | 13 | 11 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| April | 8.3 | W. | 32 | W. | 0 | 2 | 3 | 1 | 1 | 2 | 15 | 28 | 8 | 0 | 21 | 8 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| May | 11.1 | W. | 33 | SW. | 0 | 0 | 0 | 0 | 0 | 10 | 48 | 3 | 0 | 0 | 17 | 11 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| June | 12.2 | W. | 36 | SW. | 0 | 0 | 0 | 0 | 0 | 1 | 20 | 38 | 1 | 0 | 16 | 9 | 5 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 0 |
| July | 11.7 | W. | 34 | W. | 0 | 0 | 0 | 0 | 0 | 1 | 22 | 38 | 0 | 1 | 23 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 11.5 | SW. | 34 | SW. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 24 | 33 | 4 | 0 | 16 | 10 | 5 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| September | 8.3 | W. | 36 | SW. | 0 | 1 | 0 | 0 | 1 | 2 | 20 | 30 | 6 | 0 | 15 | 9 | 6 | 4 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| October | 6.5 | W. | 29 | W. | 0 | 3 | 4 | 0 | 0 | 8 | 14 | 25 | 7 | 1 | 11 | 12 | 8 | 7 | 6 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| November | 5.4 | W. | 28 | NE. | 0 | 8 | 5 | 2 | 1 | 5 | 11 | 18 | 9 | 1 | 11 | 6 | 13 | 12 | 10 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| December | 6.1 | NW. | 33 | SW. | 0 | 10 | 9 | 1 | 6 | 13 | 1 | 8 | 13 | 1 | 11 | 4 | 16 | 14 | 10 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Year | 8.9 | W. | 48 | SW. | 3 | 31 | 31 | 10 | 24 | 74 | 167 | 312 | 77 | 4 | 158 | 100 | 107 | 94 | 80 | 0 | 2 | 24 | 0 | 3 | 0 | 1 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

SAN JOSE, CAL.

[$\phi$=37° 20′ N.; $\lambda$=121° 54′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. | |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | | |
| January | 29.865 | 30.131 | 29.484 | ..... | 54.9 | 58.7 | 46.1 | 52.4 | 69 | 32 | .... | 48 | .... | 78 | ..... | 0.344 | 7.69 | 1.23 | ..... | 8.0 | 7.2 | |
| February | 29.934 | 30.201 | 29.387 | ..... | 56.3 | 59.2 | 42.2 | 50.7 | 69 | 36 | .... | 45 | .... | 68 | ..... | .308 | 4.87 | 1.00 | ..... | 5.0 | 5.2 | |
| March | 29.886 | 30.215 | 29.461 | ..... | 57.1 | 60.3 | 40.6 | 50.4 | 70 | 34 | .... | 45 | .... | 67 | ..... | .310 | 2.77 | .66 | ..... | 4.1 | 4.3 | |
| April | 29.898 | 30.144 | 29.686 | ..... | 68.1 | 71.8 | 42.5 | 57.1 | 85 | 36 | .... | 52 | .... | 57 | ..... | .387 | .00 | .00 | ..... | 1.2 | 1.5 | |
| May | 29.852 | 30.084 | 29.700 | ..... | 65.9 | 70.4 | 43.6 | 57.0 | 90 | 36 | .... | 48 | .... | 53 | ..... | .335 | .00 | .00 | ..... | 1.2 | 2.0 | |
| June | 29.828 | 29.951 | 29.619 | ..... | 69.9 | 74.3 | 48.5 | 61.4 | 100 | 42 | .... | 52 | .... | 55 | ..... | .387 | .05 | .05 | ..... | 1.1 | 2.3 | |
| July | 29.813 | 29.942 | 29.686 | ..... | 73.8 | 79.1 | 48.6 | 63.8 | 95 | 43 | .... | 55 | .... | 52 | ..... | .435 | .00 | .00 | ..... | .1 | .8 | |
| August | 29.777 | 29.923 | 29.608 | ..... | 75.0 | 79.8 | 49.5 | 64.6 | 93 | 43 | .... | 54 | .... | 49 | ..... | .415 | .00 | .00 | ..... | .4 | 2.0 | |
| September | 29.810 | 30.017 | 29.669 | ..... | 73.9 | 79.2 | 50.5 | 64.8 | 95 | 43 | .... | 52 | .... | 51 | ..... | .395 | .75 | .75 | ..... | 1.6 | 2.4 | |
| October | 29.914 | 30.084 | 29.643 | ..... | 66.8 | 72.1 | 46.5 | 59.3 | 90 | 37 | .... | 52 | .... | 60 | ..... | .384 | .72 | .64 | ..... | 3.1 | 4.2 | |
| November | 29.975 | 30.253 | 29.685 | ..... | 59.4 | 64.1 | 42.7 | 53.4 | 77 | 30 | .... | 47 | .... | 66 | ..... | .340 | 1.27 | .67 | ..... | 4.4 | 4.3 | |
| December | 29.878 | 30.200 | 29.465 | ..... | 52.0 | 55.3 | 36.4 | 45.8 | 66 | 26 | .... | 43 | .... | 73 | ..... | .287 | 5.41 | 2.40 | ..... | 5.3 | 6.0 | |
| Year | 29.869 | 30.253 | 29.387 | ..... | 64.4 | 68.7 | 44.8 | 56.7 | 100 | 26 | .... | 49 | .... | 61 | ..... | .361 | 23.53 | 2.40 | ..... | 3.0 | 3.5 | |

SAN JUAN, P. R.

[$\phi$=18° 29′ N.; $\lambda$=66° 7′ W.]

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.893 | 30.004 | 29.768 | 73.3 | 74.6 | 80.1 | 69.0 | 74.6 | 86 | 64 | 67 | 68 | 81 | 79 | 0.662 | 0.676 | 6.16 | 2.81 | 4.8 | 3.7 | 3.9 | |
| February | 29.958 | 30.043 | 29.889 | 74.1 | 74.2 | 79.8 | 69.3 | 74.6 | 84 | 64 | 69 | 68 | 83 | 82 | .698 | .694 | 2.16 | .57 | 3.9 | 4.9 | 3.8 | |
| March | 29.884 | 30.024 | 29.795 | 76.0 | 76.0 | 83.0 | 70.7 | 76.8 | 89 | 68 | 70 | 70 | 83 | 82 | .746 | .739 | 2.53 | 1.39 | 2.0 | 2.5 | 3.2 | |
| April | 29.938 | 30.067 | 29.885 | 77.7 | 76.3 | 81.9 | 71.3 | 76.6 | 85 | 67 | 69 | 69 | 75 | 78 | .712 | .708 | 2.77 | .82 | 4.2 | 3.4 | 4.1 | |
| May | 29.884 | 29.992 | 29.827 | 80.4 | 78.1 | 84.9 | 73.4 | 79.2 | 90 | 69 | 70 | 71 | 72 | 79 | .746 | .751 | 2.74 | .98 | 4.1 | 3.0 | 4.1 | |
| June | 29.934 | 30.027 | 29.877 | 80.6 | 78.2 | 84.6 | 73.3 | 79.0 | 88 | 66 | 72 | 72 | 74 | 81 | .770 | .784 | 8.86 | 2.62 | 4.6 | 4.7 | 5.5 | |
| July | 29.952 | 30.032 | 29.818 | 81.6 | 79.8 | 86.0 | 74.7 | 80.4 | 89 | 70 | 73 | 73 | 75 | 79 | .803 | .804 | 4.92 | 2.23 | 4.9 | 3.2 | 4.3 | |
| August | 29.884 | 30.009 | 29.644 | 80.7 | 79.2 | 84.6 | 74.3 | 79.4 | 88 | 71 | 73 | 73 | 79 | 81 | .821 | .804 | 10.29 | 2.70 | 5.5 | 3.4 | 5.7 | |
| September | 29.841 | 29.954 | 29.777 | 81.9 | 79.7 | 86.9 | 75.0 | 81.0 | 91 | 71 | 74 | 73 | 76 | 81 | .825 | .815 | 4.11 | 2.44 | 5.1 | 2.9 | 5.7 | |
| October | 29.843 | 29.946 | 29.724 | 80.8 | 79.3 | 86.3 | 74.6 | 80.4 | 92 | 70 | 73 | 73 | 78 | 81 | .814 | .806 | 5.60 | 1.47 | 5.0 | 2.9 | 4.5 | |
| November | 29.809 | 29.954 | 29.606 | 77.4 | 76.7 | 82.2 | 72.3 | 77.2 | 88 | 68 | 70 | 70 | 79 | 80 | .743 | .727 | 11.66 | 2.25 | 6.7 | 5.1 | 6.6 | |
| December | 29.908 | 30.032 | 29.783 | 74.4 | 74.3 | 80.1 | 69.5 | 74.8 | 84 | 66 | 67 | 67 | 78 | 79 | .660 | .670 | 3.58 | .69 | 4.9 | 4.8 | 4.9 | |
| Year | 29.894 | 30.067 | 29.606 | 78.2 | 77.2 | 83.4 | 72.3 | 77.8 | 92 | 64 | 71 | 71 | 78 | 80 | .750 | .748 | 65.38 | 2.81 | 4.6 | 3.7 | 4.7 | |

SAN LUIS OBISPO, CAL.

[$\phi$=35° 18′ N.; $\lambda$=120° 39′ W.]

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.849 | 30.053 | 29.495 | 49.8 | 55.3 | 59.0 | 47.1 | 53.0 | 69 | 33 | 46 | 50 | 89 | 83 | 0.324 | 0.362 | 17.00 | 4.99 | 6.3 | 7.3 | 8.3 | |
| February | 29.905 | 30.142 | 29.471 | 47.0 | 56.0 | 60.2 | 43.8 | 52.0 | 72 | 37 | 42 | 46 | 84 | 71 | .273 | .315 | 6.44 | 2.82 | 3.5 | 5.5 | 6.3 | |
| March | 29.828 | 30.047 | 29.450 | 44.8 | 55.9 | 59.6 | 41.6 | 50.6 | 72 | 33 | 40 | 43 | 84 | 65 | .252 | .284 | 4.04 | 1.79 | 4.4 | 4.3 | 5.1 | |
| April | 29.846 | 30.000 | 29.672 | 48.3 | 60.8 | 67.0 | 45.5 | 56.2 | 85 | 38 | 44 | 48 | 85 | 66 | .289 | .342 | .03 | .03 | 4.0 | 2.5 | 3.6 | |
| May | 29.805 | 29.950 | 29.673 | 48.5 | 59.5 | 64.7 | 45.7 | 55.2 | 98 | 38 | 43 | 47 | 83 | 66 | .281 | .325 | .00 | .00 | 4.7 | 3.2 | 4.5 | |
| June | 29.759 | 29.872 | 29.590 | 50.0 | 63.4 | 69.9 | 48.0 | 59.0 | 87 | 41 | 45 | 50 | 83 | 64 | .297 | .368 | T. | T. | 5.2 | 1.6 | 3.7 | |
| July | 29.747 | 29.852 | 29.626 | 51.8 | 67.8 | 74.9 | 49.6 | 62.2 | 92 | 44 | 47 | 51 | 84 | 56 | .319 | .377 | .00 | .00 | 5.9 | .4 | 2.7 | |
| August | 29.719 | 29.830 | 29.575 | 51.0 | 70.4 | 76.4 | 49.5 | 63.0 | 89 | 43 | 47 | 51 | 87 | 53 | .322 | .381 | .00 | .00 | 4.3 | .6 | 2.7 | |
| September | 29.755 | 29.961 | 29.547 | 53.7 | 70.5 | 77.0 | 51.6 | 64.3 | 102 | 43 | 48 | 50 | 83 | 54 | .338 | .371 | .02 | .02 | 3.8 | 2.0 | 3.8 | |
| October | 29.837 | 29.945 | 29.590 | 53.2 | 66.8 | 74.6 | 50.1 | 62.4 | 97 | 40 | 46 | 48 | 79 | 57 | .317 | .343 | .54 | .50 | 4.1 | 2.8 | 4.3 | |
| November | 29.895 | 30.145 | 29.600 | 49.8 | 61.6 | 66.8 | 45.6 | 56.2 | 89 | 35 | 43 | 45 | 79 | 58 | .280 | .311 | 2.24 | 1.47 | 2.3 | 3.6 | 4.3 | |
| December | 29.823 | 30.085 | 29.392 | 44.8 | 56.4 | 59.9 | 42.0 | 51.0 | 72 | 29 | 38 | 41 | 78 | 62 | .233 | .269 | 10.09 | 3.95 | 4.6 | 5.7 | 5.9 | |
| Year | 29.814 | 30.145 | 29.392 | 49.4 | 62.0 | 67.5 | 46.7 | 57.1 | 102 | 29 | 44 | 48 | 83 | 63 | .294 | .337 | 40.40 | 4.99 | 4.4 | 3.3 | 4.6 | |

SANTA FE, N. MEX.

[$\phi$=35° 41′ N.; $\lambda$=105° 57′ W.]

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 23.243 | 23.449 | 22.980 | 28.3 | 36.9 | 46.0 | 24.0 | 35.0 | 57 | 1 | 18 | 22 | 62 | 54 | 0.098 | 0.117 | 0.79 | 0.38 | 2.8 | 3.8 | 3.7 | |
| February | 23.149 | 23.549 | 22.777 | 24.5 | 35.1 | 41.7 | 20.2 | 31.0 | 50 | 3 | 17 | 20 | 72 | 56 | .095 | .110 | .56 | .26 | 2.9 | 4.5 | 3.8 | |
| March | 23.126 | 23.400 | 22.890 | 28.6 | 42.6 | 47.6 | 25.6 | 36.6 | 59 | 12 | 17 | 20 | 61 | 42 | .093 | .104 | .73 | .30 | 4.1 | 3.5 | 4.2 | |
| April | 23.171 | 23.543 | 22.849 | 33.9 | 53.7 | 57.6 | 30.6 | 44.1 | 71 | 12 | 20 | 21 | 58 | 29 | .108 | .113 | .30 | .19 | 2.4 | 3.8 | 3.0 | |
| May | 23.168 | 23.343 | 22.953 | 43.7 | 61.0 | 64.8 | 38.9 | 51.8 | 75 | 20 | 23 | 23 | 46 | 29 | .131 | .125 | .38 | .24 | 2.5 | 3.9 | 3.5 | |
| June | 23.309 | 23.486 | 23.146 | 58.4 | 74.9 | 79.4 | 52.1 | 65.8 | 86 | 40 | 35 | 32 | 43 | 23 | .215 | .188 | .20 | .06 | 1.3 | 4.3 | 3.0 | |
| July | 23.362 | 23.521 | 23.173 | 62.3 | 74.4 | 81.7 | 57.8 | 69.8 | 91 | 52 | 47 | 47 | 61 | 42 | .334 | .336 | 2.39 | .70 | 2.5 | 6.4 | 4.5 | |
| August | 23.397 | 23.545 | 23.261 | 58.3 | 70.4 | 76.9 | 56.8 | 66.8 | 85 | 53 | 52 | 50 | 79 | 52 | .383 | .371 | 2.02 | .40 | 4.5 | 6.7 | 5.3 | |
| September | 23.390 | 23.634 | 23.073 | 48.7 | 64.9 | 71.2 | 47.0 | 59.1 | 81 | 35 | 38 | 38 | 69 | 40 | .243 | .240 | 2.70 | 1.22 | 2.2 | 3.0 | 2.5 | |
| October | 23.338 | 23.642 | 23.076 | 39.6 | 53.6 | 63.5 | 36.5 | 50.0 | 74 | 25 | 24 | 28 | 55 | 40 | .135 | .157 | .62 | .44 | 1.9 | 3.1 | 2.5 | |
| November | 23.272 | 23.614 | 22.989 | 33.3 | 42.6 | 52.8 | 28.3 | 41.0 | 66 | 15 | 18 | 21 | 53 | 43 | .098 | .110 | 1.02 | .94 | 3.2 | 3.1 | 3.3 | |
| December | 23.161 | 23.449 | 22.861 | 16.0 | 23.4 | 33.4 | 10.4 | 21.9 | 55 | − 6 | 10 | 15 | 74 | 68 | .070 | .087 | .55 | .19 | 2.7 | 4.3 | 3.6 | |
| Year | 23.257 | 23.642 | 22.777 | 39.6 | 52.8 | 59.7 | 35.8 | 47.7 | 91 | − 6 | 27 | 28 | 61 | 43 | .167 | .172 | 12.26 | 1.22 | 2.8 | 4.2 | 3.6 | |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

SAN JOSE, CAL.

[H=141 ft.; $h_1$=12 ft.; $h_2$=3 ft.; $h_3$=110 ft.]

| Month. | Wind. | | | | | | | | | | | | | | | Number of days. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | By self-register. | | | | | Number of winds, 8 a. m. and 8 p. m. | | | | | | | | | | | | | Precipitation. | | | | | | Maximum temp. | | | Electricity. | |
| | Average hourly velocity. | Prevailing direction. | 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. | 32° or below. | 90° or above. | Minimum temperature 32° or below. | Thunderstorms. | Auroras. |
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 9.0 | SE. | 36 | SE. | 0 | 0 | 1 | 2 | 9 | 5 | 7 | 4 | 3 | 0 | 0 | 15 | 16 | 24 | 19 | 0 | 1 | 2 | 0 | 0 | 1 | 1 | 0 |
| February | 8.0 | SE. | 35 | SE. | 0 | 1 | 0 | 1 | 3 | 4 | 1 | 5 | 13 | 0 | 9 | 12 | 7 | 19 | 17 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 6.5 | NW. | 35 | SE. | 0 | 1 | 0 | 1 | 2 | 1 | 2 | 4 | 20 | 0 | 14 | 11 | 6 | 13 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 6.0 | NW. | 34 | W. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 26 | 0 | 27 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| May | 6.8 | NW. | 24 | NW. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 30 | 0 | 24 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| June | 6.5 | NW. | 24 | SE. | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 26 | 0 | 23 | 5 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 |
| July | 6.3 | NW. | 24 | SE. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 29 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| August | 5.9 | NW. | 20 | SE. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 29 | 0 | 26 | 5 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 4 | 0 | 0 | 0 |
| September | 5.4 | NW. | 23 | NW. | 0 | 0 | 1 | 0 | 0 | 2 | 1 | 3 | 23 | 0 | 20 | 8 | 2 | 2 | 2 | 0 | 0 | 3 | 0 | 6 | 0 | 0 | 0 |
| October | 4.7 | NW. | 24 | NW. | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 24 | 0 | 16 | 11 | 4 | 5 | 2 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 0 |
| November | 5.1 | SE. | 23 | NW. | 0 | 1 | 1 | 0 | 2 | 0 | 1 | 7 | 18 | 0 | 14 | 9 | 7 | 11 | 7 | 0 | 0 | 6 | 0 | 0 | 3 | 0 | 0 |
| December | 6.2 | SE. | 42 | SE. | 2 | 2 | 1 | 2 | 5 | 2 | 2 | 10 | 7 | 0 | 9 | 6 | 16 | 14 | 12 | 0 | 0 | 3 | 0 | 0 | 8 | 0 | 0 |
| Year | 6.4 | NW. | 42 | SE. | 2 | 5 | 4 | 6 | 23 | 15 | 17 | 47 | 248 | 0 | 213 | 90 | 62 | 89 | 71 | 0 | 2 | 26 | 0 | 15 | 12 | 1 | 0 |

SAN JUAN, P. R.

[H=82 ft.; $h_1$=48 ft., $h_2$=40 ft.; $h_3$=20 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 9.0 | NE. | 28 | SE. | 0 | 3 | 13 | 14 | 12 | 8 | 5 | 1 | 6 | 0 | 15 | 12 | 4 | 15 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| February | 12.9 | E. | 34 | SE. | 0 | 0 | 16 | 19 | 17 | 2 | 2 | 0 | 0 | 0 | 14 | 11 | 3 | 19 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 10.4 | SE. | 31 | SE. | 0 | 2 | 4 | 14 | 24 | 15 | 2 | 1 | 0 | 0 | 20 | 8 | 3 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 13.0 | E. | 34 | E. | 0 | 0 | 12 | 28 | 16 | 3 | 1 | 0 | 0 | 0 | 15 | 12 | 3 | 16 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 10.9 | SE. | 31 | SE. | 0 | 1 | 3 | 27 | 27 | 3 | 1 | 0 | 0 | 0 | 14 | 13 | 4 | 12 | 8 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 |
| June | 12.3 | E. | 42 | SE. | 1 | 0 | 0 | 34 | 25 | 1 | 0 | 0 | 0 | 0 | 8 | 14 | 8 | 19 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| July | 12.4 | E. | 37 | SE. | 0 | 0 | 1 | 45 | 14 | 1 | 1 | 0 | 0 | 0 | 13 | 16 | 2 | 18 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| August | 10.9 | E. | 42 | E. | 1 | 1 | 5 | 28 | 22 | 4 | 0 | 0 | 2 | 0 | 8 | 14 | 9 | 20 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 |
| September | 8.2 | SE. | 30 | SE. | 0 | 0 | 1 | 14 | 32 | 9 | 4 | 0 | 0 | 0 | 6 | 16 | 8 | 13 | 10 | 0 | 0 | 0 | 0 | 3 | 0 | 8 | 0 |
| October | 9.2 | SE. | 36 | NE. | 0 | 0 | 2 | 13 | 37 | 4 | 4 | 1 | 1 | 0 | 15 | 12 | 4 | 20 | 14 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 |
| November | 10.4 | NE. | 36 | SW. | 0 | 4 | 18 | 5 | 15 | 8 | 2 | 1 | 7 | 0 | 4 | 13 | 13 | 23 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| December | 8.1 | NE. | 29 | E. | 0 | 2 | 17 | 9 | 14 | 6 | 11 | 2 | 1 | 0 | 11 | 16 | 4 | 19 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Year | 10.6 | SE. | 42 | E. | 2 | 13 | 92 | 250 | 255 | 64 | 33 | 6 | 17 | 0 | 143 | 157 | 65 | 204 | 153 | 0 | 0 | 0 | 0 | 8 | 0 | 38 | 0 |

SAN LUIS OBISPO, CAL.

[H=201 ft., $h_1$=47 ft.; $h_2$=40 ft., $h_3$=54 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 5.5 | S. | 24 | SE. | 0 | 11 | 3 | 0 | 15 | 15 | 5 | 5 | 5 | 3 | 1 | 6 | 24 | 21 | 19 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| February | 6.0 | NW. | 24 | S. | 0 | 11 | 2 | 2 | 7 | 2 | 4 | 14 | 13 | 1 | 6 | 9 | 13 | 12 | 11 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| March | 5.6 | N. | 22 | NE. | 0 | 13 | 3 | 0 | 3 | 8 | 1 | 22 | 9 | 3 | 10 | 12 | 9 | 12 | 11 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 0 |
| April | 5.6 | NW. | 24 | W. | 0 | 16 | 0 | 2 | 4 | 3 | 1 | 18 | 16 | 0 | 18 | 8 | 4 | 1 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 1 | 0 |
| May | 6.3 | NW. | 24 | W. | 0 | 10 | 0 | 2 | 2 | 5 | 2 | 25 | 15 | 1 | 11 | 15 | 5 | 0 | 0 | 0 | 0 | 6 | 0 | 2 | 0 | 0 | 0 |
| June | 5.6 | NW. | 22 | NW. | 0 | 10 | 1 | 0 | 1 | 6 | 4 | 21 | 16 | 1 | 12 | 16 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| July | 4.9 | NW. | 24 | W. | 0 | 8 | 2 | 2 | 4 | 4 | 7 | 11 | 23 | 1 | 24 | 6 | 1 | 0 | 0 | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 0 |
| August | 4.2 | NW. | 18 | N. | 0 | 6 | 5 | 3 | 4 | 4 | 6 | 9 | 23 | 3 | 24 | 7 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 1 | 0 |
| September | 4.0 | NW. | 22 | NW. | 0 | 4 | 1 | 2 | 5 | 12 | 8 | 12 | 14 | 2 | 15 | 10 | 5 | 1 | 0 | 0 | 0 | 6 | 0 | 4 | 0 | 0 | 0 |
| October | 4.6 | NW. | 20 | NW. | 0 | 20 | 4 | 2 | 3 | 4 | 0 | 15 | 14 | 0 | 13 | 12 | 6 | 4 | 2 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 0 |
| November | 5.8 | NW. | 24 | NE. | 0 | 19 | 7 | 0 | 4 | 2 | 1 | 11 | 15 | 1 | 14 | 9 | 7 | 8 | 4 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 |
| December | 5.5 | N. | 30 | SE. | 0 | 12 | 8 | 1 | 9 | 12 | 3 | 6 | 10 | 1 | 9 | 6 | 16 | 13 | 10 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| Year | 5.3 | NW. | 30 | SE. | 0 | 140 | 36 | 15 | 61 | 77 | 42 | 169 | 173 | 17 | 157 | 116 | 92 | 72 | 57 | 0 | 2 | 47 | 0 | 13 | 2 | 4 | 0 |

SANTA FE, N. MEX.

[H=7,013 ft.; $h_1$=8 ft.; $h_2$=3 ft.; $h_3$=56 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 8.5 | NE. | 39 | NW. | 0 | 6 | 37 | 0 | 5 | 4 | 4 | 2 | 4 | 0 | 18 | 8 | 5 | 5 | 4 | 4 | 1 | 0 | 1 | 0 | 28 | 2 | 0 |
| February | 9.9 | NE. | 47 | W. | 1 | 12 | 17 | 1 | 9 | 3 | 3 | 4 | 7 | 0 | 14 | 8 | 6 | 7 | 5 | 7 | 0 | 0 | 3 | 0 | 28 | 0 | 0 |
| March | 9.5 | NE. | 44 | E. | 3 | 11 | 16 | 8 | 3 | 4 | 13 | 4 | 3 | 0 | 10 | 18 | 3 | 8 | 5 | 7 | 0 | 0 | 2 | 0 | 29 | 2 | 0 |
| April | 11.1 | SW. | 51 | SW. | 4 | 7 | 13 | 6 | 3 | 4 | 15 | 6 | 6 | 0 | 18 | 11 | 1 | 4 | 3 | 8 | 0 | 0 | 0 | 0 | 14 | 1 | 0 |
| May | 10.7 | SW. | 38 | SW. | 0 | 5 | 12 | 6 | 11 | 3 | 17 | 3 | 5 | 0 | 16 | 14 | 1 | 7 | 3 | 0 | 1 | 0 | 0 | 0 | 2 | 5 | 0 |
| June | 9.2 | SW. | 44 | E. | 1 | 3 | 15 | 15 | 7 | 4 | 10 | 4 | 2 | 0 | 18 | 12 | 0 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 |
| July | 8.4 | E. | 33 | SE. | 0 | 4 | 20 | 11 | 12 | 7 | 4 | 3 | 1 | 0 | 7 | 24 | 0 | 16 | 12 | 0 | 1 | 0 | 0 | 1 | 0 | 19 | 0 |
| August | 6.8 | NE. | 33 | E. | 0 | 3 | 26 | 8 | 15 | 2 | 5 | 2 | 1 | 0 | 4 | 23 | 4 | 18 | 15 | 0 | 1 | 0 | 0 | 0 | 0 | 22 | 0 |
| September | 7.2 | NE. | 30 | NE. | 0 | 5 | 19 | 9 | 7 | 4 | 9 | 5 | 2 | 0 | 22 | 6 | 2 | 7 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 5 | 0 |
| October | 8.2 | NE. | 37 | E. | 0 | 7 | 24 | 7 | 8 | 7 | 6 | 0 | 3 | 0 | 22 | 7 | 2 | 5 | 3 | 1 | 2 | 0 | 0 | 0 | 7 | 6 | 0 |
| November | 9.9 | NE. | 32 | W. | 0 | 9 | 25 | 5 | 14 | 3 | 2 | 1 | 1 | 0 | 17 | 11 | 2 | 3 | 2 | 3 | 0 | 0 | 2 | 0 | 18 | 0 | 0 |
| December | 9.4 | NE. | 30 | N. | 0 | 9 | 28 | 4 | 3 | 5 | 8 | 4 | 1 | 0 | 16 | 12 | 3 | 7 | 6 | 6 | 0 | 2 | 14 | 0 | 31 | 0 | 0 |
| Year | 9.1 | NE. | 51 | SW. | 9 | 81 | 252 | 80 | 97 | 50 | 96 | 38 | 36 | 0 | 182 | 154 | 29 | 92 | 66 | 31 | 6 | 2 | 22 | 1 | 157 | 71 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

SAULT STE. MARIE, MICH.

[$\phi$=46° 30′ N.; $\lambda$=84° 21′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.390 | 30.016 | 28.882 | 13.3 | 18.1 | 23.9 | 9.2 | 16.6 | 40 | −14 | 9 | 13 | 83 | 80 | 0.080 | 0.092 | 1.61 | 0.47 | 7.7 | 7.5 | 8.0 |
| February | 29.220 | 29.845 | 28.403 | 12.1 | 18.1 | 23.5 | 7.3 | 15.4 | 35 | −15 | 8 | 14 | 83 | 82 | .068 | .086 | 1.51 | .43 | 8.8 | 8.0 | 8.9 |
| March | 29.221 | 29.721 | 28.861 | 17.6 | 26.2 | 31.9 | 13.7 | 22.8 | 41 | − 8 | 14 | 21 | 83 | 80 | .085 | .113 | 1.53 | .44 | 5.9 | 6.0 | 6.3 |
| April | 29.274 | 29.736 | 28.610 | 30.1 | 33.6 | 40.1 | 25.9 | 33.0 | 50 | 6 | 25 | 28 | 82 | 80 | .140 | .157 | 3.30 | 1.04 | 8.0 | 6.9 | 8.0 |
| May | 29.234 | 29.605 | 28.622 | 45.4 | 51.3 | 58.3 | 38.9 | 48.6 | 79 | 23 | 37 | 37 | 75 | 61 | .225 | .226 | .86 | .51 | 5.5 | 6.9 | 6.7 |
| June | 29.322 | 29.677 | 29.067 | 56.3 | 63.1 | 72.2 | 48.1 | 60.2 | 89 | 36 | 48 | 48 | 76 | 58 | .351 | .350 | .70 | .35 | 5.8 | 5.1 | 5.3 |
| July | 29.262 | 29.630 | 28.747 | 59.6 | 65.8 | 73.5 | 52.4 | 63.0 | 84 | 45 | 54 | 53 | 84 | 66 | .424 | .416 | 3.50 | 1.30 | 4.1 | 5.1 | 5.0 |
| August | 29.356 | 29.679 | 29.023 | 61.1 | 65.4 | 74.3 | 55.0 | 64.6 | 90 | 40 | 56 | 56 | 84 | 72 | .453 | .453 | 3.49 | 1.74 | 4.5 | 6.2 | 5.6 |
| September | 29.415 | 29.971 | 28.824 | 50.1 | 54.7 | 62.5 | 45.2 | 53.8 | 80 | 35 | 46 | 48 | 88 | 79 | .328 | .348 | 1.92 | 1.11 | 5.7 | 5.0 | 6.3 |
| October | 29.320 | 29.914 | 28.591 | 39.2 | 43.5 | 49.6 | 36.7 | 43.2 | 74 | 22 | 36 | 38 | 88 | 82 | .218 | .243 | 2.07 | .72 | 7.0 | 5.0 | 7.9 |
| November | 29.422 | 29.996 | 28.766 | 34.1 | 37.5 | 42.9 | 30.7 | 36.8 | 61 | 6 | 30 | 33 | 83 | 84 | .177 | .203 | 2.14 | .50 | 8.4 | 7.4 | 8.4 |
| December | 29.199 | 29.836 | 28.665 | 19.6 | 22.9 | 26.1 | 15.8 | 21.0 | 46 | −10 | 16 | 20 | 84 | 86 | .096 | .112 | 1.91 | .60 | 8.5 | 7.9 | 9.1 |
| Year | 29.303 | 30.016 | 28.403 | 36.5 | 41.7 | 48.2 | 31.6 | 39.9 | 90 | −15 | 32 | 34 | 83 | 76 | .220 | .233 | 24.54 | 1.74 | 6.7 | 6.4 | 7.1 |

SAVANNAH, GA.

[$\phi$=32° 5′ N.; $\lambda$=81° 5′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 30.101 | 30.338 | 29.450 | 48.2 | 54.6 | 63.9 | 46.0 | 55.0 | 80 | 19 | 44 | 47 | 86 | 77 | 0.311 | 0.345 | 0.65 | 0.46 | 4.2 | 4.6 | 5.5 |
| February | 30.055 | 30.479 | 29.705 | 49.7 | 56.6 | 66.0 | 46.0 | 56.0 | 77 | 24 | 41 | 42 | 72 | 63 | .296 | .303 | 1.33 | .46 | 3.4 | 3.0 | 3.8 |
| March | 29.889 | 30.236 | 29.407 | 53.9 | 59.3 | 68.5 | 50.9 | 59.7 | 80 | 41 | 47 | 46 | 80 | 66 | .348 | .342 | 5.38 | 2.48 | 5.4 | 3.3 | 4.6 |
| April | 30.029 | 30.396 | 29.737 | 62.2 | 65.3 | 74.2 | 58.2 | 66.2 | 84 | 43 | 56 | 56 | 82 | 75 | .466 | .474 | 1.90 | .54 | 5.7 | 4.3 | 5.4 |
| May | 29.912 | 30.195 | 29.601 | 69.3 | 71.1 | 80.0 | 63.5 | 71.8 | 90 | 52 | 61 | 62 | 76 | 73 | .555 | .566 | 4.29 | 1.59 | 5.4 | 4.9 | 5.0 |
| June | 29.960 | 30.168 | 29.725 | 78.0 | 78.4 | 87.4 | 72.9 | 80.2 | 96 | 68 | 72 | 71 | 82 | 78 | .784 | .763 | 2.22 | .77 | 5.0 | 6.0 | 5.4 |
| July | 29.940 | 30.191 | 29.579 | 77.5 | 78.7 | 87.5 | 72.8 | 80.2 | 96 | 67 | 71 | 71 | 81 | 77 | .764 | .760 | 6.43 | 4.04 | 5.4 | 6.5 | 5.8 |
| August | 29.930 | 30.151 | 29.532 | 77.0 | 79.3 | 87.4 | 73.3 | 80.4 | 95 | 69 | 72 | 72 | 87 | 80 | .800 | .797 | 8.34 | 2.71 | 4.2 | 5.3 | 5.4 |
| September | 29.969 | 30.123 | 29.798 | 70.4 | 73.7 | 80.8 | 67.9 | 74.4 | 94 | 53 | 65 | 66 | 84 | 77 | .641 | .653 | 4.90 | 1.76 | 5.9 | 4.7 | 5.4 |
| October | 30.067 | 30.323 | 29.602 | 59.8 | 66.3 | 75.2 | 57.5 | 66.4 | 83 | 40 | 52 | 55 | 77 | 70 | .416 | .462 | .93 | .52 | 2.6 | 2.3 | 2.4 |
| November | 30.164 | 30.455 | 29.653 | 56.1 | 62.2 | 71.6 | 53.7 | 62.6 | 84 | 38 | 49 | 51 | 79 | 70 | .379 | .406 | .11 | .05 | 3.5 | 2.4 | 3.6 |
| December | 30.022 | 30.356 | 29.710 | 42.0 | 49.5 | 56.4 | 38.6 | 47.6 | 72 | 17 | 33 | 35 | 72 | 60 | .219 | .238 | 1.82 | .99 | 3.9 | 3.6 | 4.0 |
| Year | 30.003 | 30.479 | 29.407 | 62.0 | 66.2 | 74.9 | 58.4 | 66.7 | 96 | 17 | 55 | 56 | 80 | 72 | .498 | .509 | 38.30 | 4.04 | 4.6 | 4.2 | 4.7 |

SCRANTON, PA.

[$\phi$=41° 24′ N.; $\lambda$=75° 42′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.255 | 29.749 | 28.315 | 27.3 | 29.2 | 36.7 | 21.6 | 29.2 | 56 | − 2 | 19 | 21 | 70 | 70 | 0.120 | 0.127 | 2.86 | 0.69 | 7.9 | 6.0 | 8.4 |
| February | 29.063 | 29.540 | 28.430 | 31.2 | 35.0 | 42.0 | 26.5 | 34.2 | 58 | 3 | 23 | 28 | 70 | 73 | .139 | .158 | 4.16 | 1.10 | 7.6 | 7.1 | 8.4 |
| March | 28.975 | 29.551 | 28.154 | 31.3 | 35.0 | 41.7 | 26.4 | 34.0 | 61 | 8 | 24 | 26 | 74 | 70 | .139 | .145 | 2.68 | 1.14 | 6.3 | 5.9 | 6.6 |
| April | 29.184 | 29.751 | 28.835 | 41.9 | 47.6 | 56.0 | 36.6 | 46.3 | 83 | 20 | 33 | 35 | 73 | 65 | .203 | .221 | 5.20 | 1.71 | 6.4 | 5.9 | 6.3 |
| May | 29.079 | 29.384 | 28.683 | 55.3 | 60.4 | 67.8 | 49.1 | 58.4 | 83 | 36 | 44 | 44 | 67 | 58 | .297 | .305 | 4.28 | .92 | 5.2 | 7.3 | 5.8 |
| June | 29.139 | 29.396 | 28.889 | 65.5 | 70.6 | 77.2 | 58.8 | 68.0 | 90 | 47 | 57 | 58 | 75 | 67 | .482 | .506 | 5.85 | 1.94 | 6.6 | 5.6 | 5.5 |
| July | 29.103 | 29.427 | 28.758 | 66.4 | 72.7 | 80.6 | 58.2 | 69.4 | 91 | 46 | 56 | 55 | 71 | 55 | .465 | .440 | 2.23 | 1.01 | 5.0 | 4.3 | 5.1 |
| August | 29.184 | 29.513 | 28.712 | 63.4 | 70.6 | 79.1 | 56.6 | 67.8 | 95 | 47 | 54 | 53 | 72 | 57 | .428 | .419 | 1.22 | .35 | 4.9 | 4.3 | 4.7 |
| September | 29.258 | 29.610 | 28.961 | 57.6 | 63.8 | 72.3 | 52.0 | 62.2 | 91 | 37 | 50 | 49 | 78 | 61 | .381 | .368 | 1.80 | .77 | 6.2 | 5.3 | 5.3 |
| October | 29.209 | 29.680 | 28.765 | 43.6 | 49.6 | 56.8 | 39.5 | 48.2 | 82 | 28 | 37 | 37 | 77 | 63 | .227 | .232 | 1.86 | 1.08 | 5.2 | 4.7 | 5.3 |
| November | 29.313 | 29.817 | 28.775 | 40.4 | 45.1 | 53.7 | 36.6 | 45.2 | 77 | 23 | 34 | 35 | 78 | 69 | .208 | .220 | 1.33 | .53 | 6.5 | 4.4 | 5.9 |
| December | 29.057 | 29.581 | 28.400 | 24.5 | 27.6 | 32.5 | 21.5 | 27.0 | 46 | 2 | 18 | 19 | 75 | 68 | .100 | .105 | 3.39 | 1.49 | 7.8 | 6.2 | 7.5 |
| Year | 29.152 | 29.817 | 28.154 | 45.7 | 50.6 | 58.0 | 40.3 | 49.2 | 95 | − 2 | 37 | 38 | 73 | 65 | .266 | .271 | 36.86 | 1.94 | 6.3 | 5.6 | 6.2 |

SEATTLE, WASH.

[$\phi$=47° 38′ N.; $\lambda$=122° 20′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.709 | 30.406 | 28.968 | 32.9 | 35.5 | 38.6 | 29.9 | 34.2 | 54 | 12 | 29 | 31 | 87 | 84 | 0.173 | 0.182 | 6.90 | 1.46 | 7.8 | 8.9 | 8.6 |
| February | 29.758 | 30.103 | 29.367 | 39.6 | 43.6 | 46.3 | 37.7 | 42.0 | 54 | 28 | 38 | 39 | 93 | 83 | .230 | .240 | 4.35 | .89 | 8.6 | 9.1 | 9.0 |
| March | 29.910 | 30.321 | 29.469 | 40.1 | 48.2 | 50.3 | 37.9 | 44.1 | 58 | 33 | 38 | 39 | 91 | 72 | .226 | .241 | 1.98 | .32 | 6.7 | 6.7 | 7.6 |
| April | 30.083 | 30.474 | 29.785 | 41.8 | 52.4 | 55.1 | 40.3 | 47.7 | 67 | 35 | 39 | 38 | 89 | 62 | .237 | .235 | .77 | .22 | 7.0 | 6.7 | 6.8 |
| May | 29.949 | 30.223 | 29.550 | 46.3 | 57.1 | 60.0 | 44.6 | 52.3 | 74 | 36 | 43 | 42 | 90 | 62 | .282 | .277 | 1.60 | .40 | 7.5 | 6.6 | 6.7 |
| June | 29.953 | 30.206 | 29.533 | 52.0 | 65.9 | 67.9 | 50.8 | 59.4 | 83 | 46 | 46 | 45 | 82 | 49 | .316 | .303 | .64 | .29 | 6.2 | 4.8 | 5.8 |
| July | 29.949 | 30.168 | 29.628 | 53.9 | 66.8 | 68.1 | 53.2 | 60.6 | 78 | 50 | 51 | 53 | 89 | 62 | .370 | .400 | .35 | .26 | 6.1 | 5.0 | 6.1 |
| August | 29.941 | 30.191 | 29.673 | 54.5 | 68.2 | 70.0 | 53.2 | 61.6 | 79 | 51 | 50 | 51 | 85 | 56 | .359 | .378 | .27 | .22 | 5.2 | 3.6 | 4.7 |
| September | 29.943 | 30.208 | 29.583 | 53.5 | 65.9 | 68.3 | 51.9 | 60.1 | 84 | 47 | 51 | 54 | 92 | 68 | .378 | .423 | 1.10 | .41 | 3.4 | 5.1 | 5.3 |
| October | 29.941 | 30.271 | 29.492 | 48.2 | 55.4 | 57.8 | 46.5 | 52.2 | 73 | 40 | 47 | 49 | 96 | 81 | .325 | .358 | 2.86 | 1.28 | 5.5 | 6.8 | 7.5 |
| November | 29.822 | 30.289 | 29.165 | 44.3 | 46.8 | 49.7 | 41.3 | 45.5 | 59 | 29 | 42 | 43 | 93 | 86 | .278 | .280 | 9.11 | 1.59 | 8.9 | 8.2 | 8.1 |
| December | 29.987 | 30.515 | 29.107 | 34.9 | 38.3 | 40.2 | 32.6 | 36.4 | 52 | 25 | 32 | 33 | 90 | 82 | .188 | .191 | 2.69 | 1.37 | 5.6 | 7.7 | 7.7 |
| Year | 29.912 | 30.515 | 28.968 | 45.2 | 53.7 | 56.0 | 43.3 | 49.7 | 84 | 12 | 42 | 43 | 90 | 71 | .280 | .292 | 31.72 | 1.59 | 6.5 | 6.6 | 7.0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

SAULT STE. MARIE, MICH.

[H=614 ft.; $h_t$=11 ft.; $h_r$=3 ft.; $h_a$=61 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 10.8 | E. | 52 | W. | 3 | 7 | 3 | 19 | 10 | 2 | 7 | 9 | 5 | 0 | 5 | 4 | 22 | 15 | 12 | 13 | 0 | 1 | 20 | 0 | 28 | 0 | 0 |
| February | 9.7 | NW. | 36 | NW. | 0 | 2 | 7 | 12 | 5 | 2 | 6 | 6 | 16 | 0 | 1 | 5 | 22 | 12 | 9 | 12 | 0 | 1 | 23 | 0 | 28 | 0 | 0 |
| March | 8.3 | NW. | 33 | NW. | 0 | 1 | 4 | 7 | 6 | 0 | 4 | 19 | 21 | 0 | 8 | 7 | 16 | 9 | 8 | 9 | 0 | 3 | 16 | 0 | 31 | 0 | 0 |
| April | 10.9 | NW. | 40 | W. | 1 | 4 | 1 | 12 | 10 | 4 | 5 | 13 | 11 | 0 | 3 | 4 | 23 | 14 | 11 | 10 | 0 | 0 | 3 | 0 | 24 | 0 | 0 |
| May | 8.4 | W. | 35 | NW. | 0 | 2 | 1 | 18 | 6 | 4 | 13 | 15 | 3 | 0 | 7 | 10 | 14 | 9 | 5 | 3 | 0 | 0 | 1 | 0 | 6 | 1 | 0 |
| June | 7.1 | W. | 32 | NW. | 0 | 1 | 5 | 6 | 18 | 0 | 8 | 16 | 6 | 0 | 9 | 12 | 9 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| July | 7.6 | W. | 31 | NW. | 0 | 4 | 1 | 6 | 14 | 2 | 5 | 21 | 8 | 1 | 11 | 13 | 7 | 10 | 9 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 0 |
| August | 7.0 | NW. | 29 | NW. | 0 | 1 | 3 | 10 | 14 | 1 | 4 | 12 | 16 | 1 | 11 | 9 | 11 | 8 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| September | 8.1 | NW. | 28 | NW. | 0 | 9 | 3 | 14 | 9 | 2 | 5 | 6 | 12 | 0 | 6 | 12 | 12 | 11 | 7 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 |
| October | 9.2 | SE. | 36 | W. | 0 | 9 | 2 | 9 | 15 | 2 | 8 | 8 | 9 | 0 | 3 | 7 | 21 | 13 | 8 | 4 | 0 | 4 | 0 | 0 | 7 | 0 | 1 |
| November | 10.3 | SE. | 47 | NW. | 2 | 2 | 7 | 13 | 19 | 2 | 4 | 7 | 6 | 0 | 4 | 2 | 24 | 12 | 10 | 4 | 0 | 0 | 6 | 0 | 17 | 2 | 0 |
| December | 9.2 | E. | 37 | SW. | 0 | 5 | 11 | 10 | 8 | 4 | 8 | 6 | 10 | 0 | 1 | 4 | 26 | 18 | 9 | 17 | 0 | 0 | 25 | 0 | 29 | 0 | 0 |
| Year | 8.9 | W. | 52 | W. | 6 | 47 | 48 | 136 | 134 | 25 | 77 | 138 | 123 | 2 | 69 | 89 | 207 | 136 | 96 | 72 | 0 | 12 | 94 | 0 | 170 | 12 | 1 |

SAVANNAH, GA.

[H=65 ft.; $h_t$=150 ft.; $h_r$=143 ft.; $h_a$=194 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 6.9 | NE. | 35 | W. | 0 | 13 | 13 | 11 | 4 | 3 | 5 | 5 | 8 | 0 | 11 | 9 | 11 | 4 | 3 | 0 | 0 | 7 | 0 | 0 | 2 | 1 | 0 |
| February | 9.4 | SW. | 31 | W. | 0 | 3 | 2 | 2 | 2 | 7 | 19 | 13 | 7 | 1 | 12 | 12 | 4 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 |
| March | 8.4 | SW. | 37 | W. | 0 | 11 | 4 | 2 | 4 | 7 | 17 | 6 | 9 | 2 | 13 | 8 | 10 | 12 | 10 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 |
| April | 8.1 | SW. | 26 | W. | 0 | 6 | 5 | 12 | 1 | 9 | 17 | 4 | 5 | 1 | 10 | 9 | 11 | 12 | 8 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 |
| May | 6.6 | S. | 23 | SW. | 0 | 6 | 7 | 6 | 4 | 15 | 12 | 11 | 1 | 0 | 10 | 15 | 6 | 9 | 7 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 |
| June | 7.8 | SW. | 27 | S. | 0 | 4 | 1 | 6 | 11 | 16 | 14 | 7 | 1 | 0 | 10 | 11 | 9 | 9 | 8 | 0 | 0 | 0 | 0 | 7 | 0 | 11 | 0 |
| July | 11.2 | S. | 46 | E. | 1 | 1 | 6 | 8 | 10 | 12 | 18 | 6 | 1 | 0 | 5 | 18 | 8 | 13 | 10 | 0 | 0 | 0 | 0 | 11 | 0 | 11 | 0 |
| August | 9.5 | NE. | 40 | NE. | 1 | 5 | 12 | 10 | 3 | 12 | 6 | 10 | 3 | 1 | 9 | 12 | 10 | 14 | 12 | 0 | 0 | 0 | 0 | 11 | 0 | 10 | 0 |
| September | 10.5 | NE. | 34 | E. | 0 | 11 | 20 | 13 | 7 | 5 | 2 | 0 | 1 | 1 | 6 | 15 | 9 | 10 | 10 | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 0 |
| October | 11.1 | E. | 36 | NW. | 0 | 7 | 12 | 12 | 7 | 7 | 3 | 8 | 6 | 0 | 21 | 7 | 3 | 5 | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 |
| November | 10.8 | NE. | 29 | E. | 0 | 8 | 10 | 13 | 10 | 4 | 3 | 4 | 8 | 0 | 14 | 14 | 2 | 3 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 |
| December | 12.7 | W. | 52 | W. | 3 | 8 | 6 | 5 | 5 | 6 | 6 | 13 | 13 | 0 | 16 | 6 | 9 | 8 | 5 | 0 | 0 | 3 | 0 | 0 | 8 | 0 | 0 |
| Year | 9.4 | SW. | 52 | W. | 5 | 83 | 98 | 100 | 68 | 103 | 122 | 87 | 63 | 6 | 137 | 136 | 92 | 105 | 83 | 0 | 1 | 20 | 0 | 33 | 11 | 51 | 0 |

SCRANTON, PA.

[H=805 ft.; $h_t$=111 ft.; $h_r$=102 ft.; $h_a$=119 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 7.3 | SW. | 34 | W. | 0 | 15 | 8 | 2 | 1 | 4 | 19 | 4 | 9 | 0 | 3 | 5 | 23 | 17 | 12 | 10 | 0 | 8 | 11 | 0 | 24 | 0 | 0 |
| February | 9.1 | SW. | 41 | SW. | 1 | 9 | 9 | 2 | 2 | 5 | 15 | 8 | 6 | 0 | 1 | 8 | 19 | 15 | 11 | 6 | 0 | 1 | 4 | 0 | 21 | 0 | 0 |
| March | 9.3 | NW. | 38 | SW. | 0 | 10 | 4 | 4 | 3 | 4 | 10 | 9 | 18 | 0 | 8 | 9 | 14 | 16 | 10 | 10 | 0 | 0 | 2 | 0 | 27 | 0 | 0 |
| April | 7.9 | SW. | 40 | W. | 1 | 12 | 9 | 4 | 0 | 8 | 13 | 6 | 8 | 0 | 8 | 10 | 12 | 15 | 12 | 2 | 1 | 1 | 0 | 0 | 5 | 3 | 0 |
| May | 6.0 | SW. | 30 | W. | 0 | 10 | 10 | 3 | 4 | 5 | 17 | 5 | 8 | 0 | 7 | 12 | 12 | 12 | 11 | 0 | 1 | 0 | 0 | 0 | 0 | 7 | 0 |
| June | 4.8 | SW. | 23 | NW. | 0 | 10 | 9 | 5 | 1 | 2 | 24 | 3 | 6 | 0 | 10 | 11 | 9 | 14 | 10 | 0 | 1 | 0 | 0 | 1 | 0 | 8 | 0 |
| July | 6.4 | SW. | 33 | SW. | 0 | 9 | 13 | 1 | 0 | 7 | 14 | 9 | 9 | 0 | 8 | 18 | 5 | 7 | 6 | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 0 |
| August | 5.9 | NE. | 25 | S. | 0 | 16 | 15 | 3 | 4 | 4 | 12 | 2 | 5 | 1 | 13 | 8 | 10 | 11 | 8 | 0 | 0 | 1 | 0 | 3 | 0 | 3 | 0 |
| September | 6.5 | NE. | 31 | NW. | 0 | 6 | 23 | 0 | 1 | 9 | 16 | 1 | 4 | 0 | 11 | 6 | 13 | 6 | 5 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 |
| October | 7.0 | SW. | 27 | SE. | 0 | 9 | 13 | 0 | 1 | 2 | 18 | 11 | 8 | 0 | 11 | 6 | 14 | 9 | 5 | 0 | 0 | 2 | 0 | 0 | 6 | 2 | 0 |
| November | 7.7 | SW. | 30 | W. | 0 | 9 | 15 | 1 | 2 | 5 | 19 | 3 | 5 | 1 | 10 | 5 | 15 | 9 | 7 | 3 | 0 | 1 | 1 | 0 | 12 | 0 | 0 |
| December | 8.9 | SW. | 32 | W. | 0 | 4 | 11 | 1 | 1 | 3 | 26 | 7 | 9 | 0 | 6 | 5 | 20 | 10 | 8 | 8 | 0 | 1 | 17 | 0 | 28 | 0 | 0 |
| Year | 7.2 | SW. | 41 | SW. | 2 | 119 | 139 | 26 | 20 | 58 | 203 | 68 | 95 | 2 | 96 | 103 | 166 | 141 | 105 | 39 | 3 | 16 | 35 | 6 | 123 | 29 | 0 |

SEATTLE, WASH.

[H=123 ft.; $h_t$=185 ft.; $h_r$=179 ft.; $h_a$=224 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 9.5 | SE. | 42 | SW. | 1 | 14 | 8 | 15 | 10 | 12 | 2 | 0 | 1 | 0 | 1 | 5 | 25 | 25 | 23 | 11 | 0 | 2 | 9 | 0 | 12 | 0 | 0 |
| February | 11.0 | S. | 49 | S. | 3 | 5 | 1 | 3 | 16 | 21 | 7 | 2 | 1 | 0 | 0 | 3 | 25 | 20 | 19 | 3 | 0 | 1 | 0 | 0 | 3 | 0 | 0 |
| March | 8.5 | N. | 41 | SW. | 1 | 15 | 5 | 10 | 8 | 12 | 5 | 4 | 3 | 0 | 3 | 11 | 17 | 14 | 8 | 0 | 1 | 8 | 0 | 0 | 0 | 0 | 0 |
| April | 8.2 | S. | 28 | S. | 0 | 7 | 2 | 9 | 12 | 16 | 4 | 5 | 5 | 0 | 6 | 11 | 13 | 12 | 7 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| May | 8.4 | S. | 40 | SW. | 1 | 7 | 4 | 7 | 8 | 13 | 6 | 8 | 7 | 2 | 5 | 11 | 15 | 14 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| June | 7.5 | S. | 29 | S. | 0 | 12 | 8 | 3 | 9 | 11 | 5 | 4 | 6 | 2 | 9 | 7 | 14 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| July | 7.9 | S. | 25 | NW. | 0 | 8 | 6 | 3 | 7 | 15 | 5 | 4 | 13 | 1 | 9 | 7 | 15 | 6 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| August | 7.1 | N. | 27 | SW. | 0 | 13 | 7 | 3 | 9 | 5 | 5 | 8 | 10 | 2 | 12 | 11 | 8 | 4 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| September | 6.5 | N. | 32 | SW. | 0 | 11 | 8 | 0 | 11 | 4 | 7 | 7 | 11 | 1 | 11 | 5 | 14 | 7 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| October | 7.4 | SE. | 32 | S. | 0 | 14 | 4 | 5 | 15 | 9 | 7 | 3 | 4 | 1 | 1 | 12 | 18 | 10 | 10 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 |
| November | 10.6 | S. | 56 | S. | 2 | 3 | 5 | 5 | 13 | 22 | 9 | 1 | 2 | 0 | 2 | 4 | 24 | 22 | 19 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 |
| December | 7.9 | N. | 37 | S. | 0 | 11 | 12 | 12 | 13 | 7 | 4 | 1 | 2 | 0 | 5 | 5 | 21 | 12 | 8 | 4 | 0 | 4 | 1 | 0 | 17 | 0 | 0 |
| Year | 8.4 | S. | 56 | S. | 8 | 120 | 70 | 75 | 131 | 147 | 66 | 47 | 65 | 9 | 64 | 92 | 209 | 153 | 114 | 18 | 2 | 31 | 10 | 0 | 34 | 2 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

SHERIDAN, WYO.

[$\phi$=44° 48′ N.; $\lambda$=106° 57′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 25.994 | 26.615 | 25.425 | 10.5 | 17.8 | 27.3 | 4.5 | 15.9 | 56 | −22 | 6 | 11 | 87 | 76 | 0.068 | 0.084 | 0.30 | 0.16 | 5.3 | 6.5 | 4.4 |
| February | 25.964 | 26.435 | 25.623 | 18.2 | 28.9 | 35.3 | 13.1 | 24.2 | 55 | −14 | 11 | 16 | 77 | 60 | .077 | .094 | .32 | .17 | 4.8 | 6.8 | 5.9 |
| March | 26.032 | 26.416 | 25.603 | 23.3 | 40.8 | 44.7 | 19.8 | 32.2 | 63 | − 5 | 20 | 21 | 84 | 46 | .106 | .112 | .29 | .12 | 5.8 | 5.2 | 4.8 |
| April | 26.042 | 26.479 | 25.629 | 29.2 | 41.6 | 48.8 | 25.2 | 37.0 | 67 | 16 | 23 | 26 | 79 | 59 | .125 | .142 | 1.79 | .27 | 6.2 | 8.1 | 6.4 |
| May | 25.996 | 26.225 | 25.633 | 39.1 | 58.0 | 62.3 | 34.8 | 48.6 | 80 | 21 | 34 | 34 | 83 | 44 | .202 | .200 | 3.84 | 1.50 | 5.7 | 6.6 | 5.7 |
| June | 26.094 | 26.294 | 25.825 | 54.1 | 70.1 | 74.3 | 48.6 | 61.4 | 95 | 40 | 48 | 51 | 81 | 54 | .340 | .382 | 3.05 | 1.10 | 5.1 | 6.2 | 5.2 |
| July | 26.082 | 26.421 | 25.843 | 57.0 | 79.1 | 83.5 | 52.5 | 68.0 | 97 | 42 | 50 | 51 | 79 | 41 | .371 | .393 | .90 | .68 | 3.5 | 3.5 | 3.5 |
| August | 26.113 | 26.440 | 25.882 | 55.2 | 81.6 | 85.7 | 50.7 | 68.2 | 99 | 36 | 46 | 46 | 73 | 33 | .318 | .324 | .21 | .10 | 3.5 | 3.9 | 4.2 |
| September | 26.140 | 26.502 | 25.820 | 47.1 | 66.2 | 72.8 | 43.7 | 58.2 | 89 | 30 | 42 | 42 | 83 | 47 | .277 | .282 | 1.68 | .81 | 5.1 | 5.0 | 4.9 |
| October | 26.136 | 26.476 | 25.722 | 34.1 | 52.5 | 62.8 | 28.5 | 45.6 | 79 | 18 | 26 | 28 | 75 | 41 | .146 | .159 | .36 | .22 | 4.4 | 4.1 | 4.6 |
| November | 26.065 | 26.458 | 25.531 | 25.9 | 37.6 | 48.8 | 20.7 | 34.8 | 74 | − 2 | 22 | 25 | 83 | 66 | .119 | .135 | .99 | .39 | 5.7 | 5.6 | 6.3 |
| December | 26.102 | 26.380 | 25.604 | 7.6 | 13.9 | 22.5 | −2.0 | 10.2 | 54 | −27 | 5 | 9 | 88 | 82 | .063 | .074 | 1.25 | .36 | 6.0 | 5.9 | 5.2 |
| Year | 26.063 | 26.615 | 25.425 | 33.4 | 49.0 | 55.7 | 28.3 | 42.0 | 99 | −27 | 28 | 30 | 81 | 54 | .184 | .198 | 14.98 | 1.50 | 5.1 | 5.6 | 5.1 |

SHREVEPORT, LA.

[$\phi$=32° 30′ N.; $\lambda$=93° 40′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.900 | 30.319 | 29.367 | 46.0 | 54.1 | 60.0 | 43.2 | 51.6 | 79 | 20 | 41 | 44 | 84 | 70 | 0.294 | 0.317 | 0.63 | 0.23 | 7.9 | 4.4 | 6.4 |
| February | 29.764 | 30.345 | 29.256 | 45.3 | 58.2 | 64.5 | 42.0 | 53.2 | 80 | 21 | 40 | 48 | 81 | 71 | .274 | .371 | 3.90 | 1.77 | 4.8 | 4.0 | 4.7 |
| March | 29.666 | 30.093 | 29.159 | 51.2 | 65.0 | 68.8 | 48.7 | 58.8 | 82 | 36 | 44 | 51 | 77 | 62 | .311 | .386 | 2.59 | 1.83 | 4.3 | 5.3 | 4.7 |
| April | 29.736 | 30.193 | 29.290 | 57.5 | 70.0 | 74.3 | 54.6 | 64.4 | 86 | 39 | 51 | 55 | 81 | 60 | .404 | .453 | 3.39 | 1.18 | 4.7 | 4.4 | 5.2 |
| May | 29.630 | 30.009 | 29.277 | 64.3 | 76.2 | 80.5 | 61.5 | 71.0 | 89 | 44 | 60 | 62 | 85 | 63 | .539 | .575 | 5.30 | 1.94 | 5.7 | 3.4 | 4.7 |
| June | 29.706 | 29.873 | 29.472 | 73.9 | 83.4 | 89.9 | 70.7 | 80.3 | 96 | 65 | 69 | 69 | 85 | 63 | .713 | .703 | 2.03 | .81 | 2.3 | 4.4 | 3.6 |
| July | 29.702 | 29.910 | 29.489 | 77.4 | 89.3 | 94.0 | 74.9 | 84.4 | 100 | 70 | 72 | 70 | 85 | 55 | .797 | .738 | 1.42 | .67 | 2.6 | 3.2 | 3.2 |
| August | 29.704 | 29.876 | 29.395 | 75.2 | 87.5 | 94.4 | 73.4 | 83.9 | 110 | 69 | 70 | 70 | 83 | 58 | .725 | .731 | 2.99 | 1.60 | 3.2 | 3.7 | 3.5 |
| September | 29.754 | 30.009 | 29.299 | 67.7 | 81.7 | 88.0 | 66.2 | 77.1 | 99 | 44 | 62 | 61 | 82 | 52 | .588 | .571 | 1.46 | .76 | 2.7 | 3.0 | 2.8 |
| October | 29.828 | 30.093 | 29.486 | 57.8 | 73.4 | 79.5 | 56.5 | 68.0 | 90 | 43 | 52 | 54 | 82 | 53 | .409 | .440 | 1.27 | 1.10 | 1.8 | .8 | 2.2 |
| November | 29.883 | 30.288 | 29.571 | 54.8 | 66.4 | 73.7 | 51.9 | 62.8 | 82 | 34 | 51 | 51 | 88 | 61 | .400 | .405 | .77 | .25 | 4.4 | 2.1 | 4.7 |
| December | 29.858 | 30.170 | 29.497 | 35.5 | 45.7 | 51.1 | 33.2 | 42.2 | 76 | 20 | 31 | 35 | 82 | 67 | .186 | .217 | 6.38 | 3.17 | 4.3 | 2.9 | 4.7 |
| Year | 29.761 | 30.345 | 29.159 | 58.9 | 70.9 | 76.6 | 56.4 | 66.5 | 110 | 20 | 54 | 56 | 83 | 61 | .470 | .492 | 32.13 | 3.17 | 4.1 | 3.5 | 4.2 |

SIOUX CITY, IOWA.

[$\phi$=42° 29′ N.; $\lambda$=96° 24′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 28.892 | 29.383 | 28.075 | 16.4 | ..... | 27.3 | 11.2 | 19.2 | 54 | −17 | 12 | .... | 83 | .... | 0.092 | ..... | 0.60 | 0.32 | 6.1 | ..... | 6.5 |
| February | 28.709 | 29.352 | 28.004 | 18.3 | 27.3 | 32.4 | 14.7 | 23.6 | 54 | −17 | 14 | 20 | 82 | 74 | .091 | 0.121 | 2.24 | 1.15 | 5.4 | 6.6 | 6.5 |
| March | 28.788 | 29.297 | 28.399 | 26.8 | 34.6 | 39.1 | 24.4 | 31.8 | 65 | 11 | 23 | 25 | 84 | 67 | .122 | .134 | .74 | .39 | 6.1 | 5.6 | 6.1 |
| April | 28.726 | 29.256 | 28.258 | 36.2 | 47.3 | 51.5 | 32.2 | 41.8 | 77 | 24 | 29 | 29 | 74 | 51 | .160 | .166 | 2.09 | .61 | 6.9 | 7.2 | 6.9 |
| May | 28.641 | 28.960 | 28.250 | 50.5 | ..... | 69.1 | 46.8 | 58.0 | 94 | 23 | 42 | .... | 73 | .... | .287 | ..... | 3.98 | 1.26 | 5.6 | ..... | 6.4 |
| June | 28.759 | 29.022 | 28.585 | 63.2 | ..... | 77.7 | 59.3 | 68.5 | 91 | 51 | 59 | .... | 86 | .... | .503 | ..... | 5.20 | 1.80 | 5.6 | ..... | 6.0 |
| July | 28.752 | 29.015 | 28.504 | 66.7 | ..... | 81.0 | 63.5 | 72.2 | 96 | 54 | 63 | .... | 88 | .... | .580 | ..... | 4.09 | 1.13 | 5.2 | ..... | 5.1 |
| August | 28.786 | 29.201 | 28.609 | 68.6 | ..... | 87.2 | 66.5 | 76.8 | 96 | 43 | 63 | .... | 82 | .... | .594 | ..... | 3.02 | 1.30 | 4.0 | ..... | 3.5 |
| September | 28.865 | 29.265 | 28.392 | 55.1 | ..... | 72.8 | 53.2 | 63.0 | 87 | 39 | 51 | .... | 86 | .... | .387 | ..... | 1.99 | .51 | 5.4 | ..... | 4.8 |
| October | 28.818 | 29.348 | 28.429 | 43.6 | 53.6 | 61.0 | 40.1 | 50.6 | 87 | 17 | 38 | 37 | 79 | 54 | .239 | .238 | 1.63 | .68 | 5.1 | 3.9 | 5.1 |
| November | 28.828 | 29.394 | 28.272 | 35.1 | 41.7 | 48.2 | 30.4 | 39.3 | 75 | 10 | 31 | 34 | 85 | 74 | .187 | .211 | 3.02 | 1.33 | 6.1 | 5.1 | 6.3 |
| December | 28.836 | 29.162 | 28.339 | 11.1 | 14.1 | 19.2 | 6.3 | 12.8 | 45 | −15 | 8 | 10 | 86 | 84 | .072 | .076 | 1.04 | .33 | 6.5 | 5.5 | 6.7 |
| Year | 28.783 | 29.394 | 28.004 | 41.0 | ..... | 55.5 | 37.4 | 46.5 | 96 | −17 | 36 | .... | 82 | .... | .276 | ..... | 29.64 | 1.80 | 5.7 | ..... | 5.8 |

SOUTHEAST FARALLON ISLAND, CAL.

[$\phi$=37° 42′ N.; $\lambda$=123° 0′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.939 | 30.196 | 29.577 | ..... | 52.1 | 53.6 | 49.2 | 51.4 | 58 | 41 | .... | 49 | .... | 91 | ..... | 0.355 | 8.18 | 1.35 | ..... | 7.2 | 8.0 |
| February | 30.044 | 30.283 | 29.507 | ..... | 51.6 | 53.6 | 48.4 | 51.0 | 57 | 44 | .... | 48 | .... | 88 | ..... | .336 | 5.78 | 1.85 | ..... | 5.9 | 6.5 |
| March | 30.007 | 30.291 | 29.004 | ..... | 50.9 | 52.9 | 47.6 | 50.2 | 60 | 42 | .... | 47 | .... | 88 | ..... | .326 | 2.94 | .83 | ..... | 4.9 | 5.6 |
| April | 30.044 | 30.197 | 29.772 | ..... | 51.5 | 53.1 | 48.6 | 50.8 | 71 | 46 | .... | 49 | .... | 91 | ..... | .344 | .00 | .00 | ..... | 3.5 | 3.4 |
| May | 30.001 | 30.201 | 29.858 | ..... | 51.2 | 51.9 | 48.4 | 50.2 | 59 | 46 | .... | 48 | .... | 91 | ..... | .340 | .01 | .01 | ..... | 3.1 | 4.4 |
| June | 29.971 | 30.074 | 29.711 | ..... | 53.0 | 53.5 | 49.9 | 51.7 | 57 | 48 | .... | 50 | .... | 92 | ..... | .366 | .06 | .06 | ..... | 3.5 | 5.2 |
| July | 29.963 | 30.039 | 29.829 | ..... | 53.5 | 54.2 | 50.8 | 52.5 | 60 | 48 | .... | 51 | .... | 93 | ..... | .378 | .00 | .00 | ..... | 2.7 | 4.8 |
| August | 29.931 | 30.029 | 29.739 | ..... | 54.1 | 54.9 | 51.2 | 53.0 | 59 | 48 | .... | 52 | .... | 95 | ..... | .392 | .00 | .00 | ..... | 4.3 | 5.2 |
| September | 29.958 | 30.147 | 29.800 | ..... | 55.0 | 57.2 | 51.8 | 54.5 | 71 | 47 | .... | 54 | .... | 95 | ..... | .409 | .70 | .46 | ..... | 4.7 | 5.6 |
| October | 30.051 | 30.176 | 29.785 | ..... | 56.1 | 59.1 | 52.9 | 56.0 | 81 | 50 | .... | 54 | .... | 92 | ..... | .410 | .56 | .17 | ..... | 6.0 | 6.2 |
| November | 30.101 | 30.349 | 29.802 | ..... | 53.7 | 55.6 | 50.8 | 53.2 | 60 | 47 | .... | 52 | .... | 94 | ..... | .386 | 2.13 | 1.10 | ..... | 3.5 | 5.7 |
| December | 29.983 | 30.303 | 29.581 | ..... | 51.4 | 53.4 | 47.3 | 50.4 | 62 | 44 | .... | 50 | .... | 93 | ..... | .355 | 4.32 | 1.40 | ..... | 5.6 | 6.0 |
| Year | 29.999 | 30.349 | 29.507 | ..... | 52.8 | 54.4 | 49.7 | 52.1 | 81 | 41 | .... | 50 | .... | 92 | ..... | .366 | 24.68 | 1.85 | ..... | 4.6 | 5.6 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

SHERIDAN, WYO.

[H=3,790 ft.; $h_t$=9 ft.; $h_r$=2 ft.; $h_a$=47 ft.]

| Month. | Wind. | | | | | | | | | | | | | | Number of days. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | By self-register. | | | | | Number of winds, 8 a. m. and 8 p. m. | | | | | | | | | | | | Precipitation. | | | | | Maximum temp. | | Minimum temperature 32° or below. | Electricity. | |
| | Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Clear. | Partly cloudy. | Cloudy. | 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | 32° or below. | 90° or above. | | Thunderstorms. | Auroras. |
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | |
| January | 5.4 | NW. | 42 | NW. | 1 | 5 | 9 | 2 | 7 | 11 | 9 | 3 | 14 | 2 | 12 | 13 | 6 | 6 | 4 | 6 | 0 | 0 | 15 | 0 | 31 | 0 | 0 |
| February | 6.1 | NW. | 44 | W. | 2 | 8 | 3 | 3 | 10 | 5 | 4 | 3 | 20 | 0 | 5 | 15 | 8 | 5 | 3 | 4 | 0 | 0 | 7 | 0 | 27 | 0 | 0 |
| March | 6.6 | NW. | 48 | NW. | 1 | 5 | 7 | 9 | 7 | 7 | 6 | 3 | 18 | 0 | 10 | 13 | 8 | 7 | 3 | 7 | 0 | 0 | 3 | 0 | 31 | 0 | 0 |
| April | 8.9 | NW. | 48 | NW. | 2 | 5 | 3 | 2 | 4 | 10 | 7 | 2 | 27 | 0 | 3 | 11 | 16 | 17 | 15 | 4 | 1 | 0 | 0 | 0 | 26 | 1 | 0 |
| May | 9.5 | NW. | 48 | NW. | 4 | 2 | 7 | 7 | 6 | 3 | 9 | 3 | 23 | 2 | 9 | 9 | 13 | 12 | 9 | 1 | 1 | 0 | 0 | 0 | 14 | 2 | 0 |
| June | 6.1 | NW. | 44 | NW. | 1 | 3 | 4 | 6 | 16 | 4 | 7 | 4 | 16 | 0 | 10 | 10 | 10 | 11 | 8 | 0 | 3 | 0 | 0 | 2 | 0 | 14 | 0 |
| July | 6.4 | NW. | 52 | NW. | 1 | 6 | 4 | 8 | 17 | 7 | 1 | 4 | 14 | 1 | 18 | 9 | 4 | 7 | 5 | 0 | 3 | 0 | 0 | 7 | 0 | 9 | 0 |
| August | 5.5 | NW. | 40 | NW. | 1 | 5 | 6 | 3 | 17 | 12 | 3 | 5 | 10 | 1 | 15 | 12 | 4 | 8 | 2 | 0 | 0 | 0 | 0 | 10 | 0 | 6 | 0 |
| September | 5.9 | NW. | 39 | NW. | 0 | 5 | 5 | 6 | 11 | 9 | 3 | 6 | 13 | 2 | 11 | 11 | 8 | 10 | 7 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 |
| October | 6.2 | NW. | 42 | SW. | 1 | 4 | 1 | 4 | 10 | 13 | 4 | 4 | 19 | 3 | 13 | 11 | 7 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 22 | 1 | 0 |
| November | 5.4 | NW. | 40 | NW. | 1 | 0 | 3 | 2 | 10 | 13 | 4 | 5 | 23 | 0 | 6 | 11 | 13 | 9 | 7 | 5 | 0 | 0 | 4 | 0 | 27 | 0 | 0 |
| December | 7.3 | NW. | 42 | NW. | 3 | 3 | 4 | 4 | 11 | 8 | 5 | 1 | 26 | 0 | 8 | 17 | 6 | 11 | 8 | 10 | 0 | 1 | 20 | 0 | 31 | 0 | 0 |
| Year | 6.6 | NW. | 52 | NW. | 18 | 51 | 56 | 56 | 126 | 102 | 62 | 43 | 223 | 11 | 120 | 142 | 103 | 108 | 73 | 38 | 8 | 1 | 49 | 19 | 211 | 35 | 0 |

SHREVEPORT LA.

[H=249 ft.; $h_t$=77 ft.; $h_r$=77 ft.; $h_a$=84 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 7.9 | SE. | 40 | NW. | 1 | 3 | 12 | 8 | 24 | 3 | 2 | 1 | 9 | 0 | 7 | 7 | 17 | 6 | 5 | 2 | 1 | 0 | 1 | 0 | 9 | 1 | 0 |
| February | 9.3 | SE. | 37 | W. | 0 | 1 | 4 | 7 | 23 | 3 | 2 | 6 | 10 | 0 | 13 | 8 | 7 | 7 | 6 | 1 | 2 | 0 | 1 | 0 | 6 | 5 | 0 |
| March | 8.3 | SE. | 42 | SE. | 1 | 7 | 14 | 7 | 20 | 3 | 2 | 3 | 5 | 1 | 14 | 10 | 7 | 8 | 7 | 0 | 1 | 0 | 0 | 0 | 3 | 3 | 0 |
| April | 8.8 | SE. | 33 | SE. | 0 | 1 | 14 | 2 | 29 | 3 | 2 | 2 | 7 | 0 | 10 | 9 | 11 | 9 | 8 | 0 | 1 | 0 | 0 | 0 | 0 | 8 | 0 |
| May | 7.3 | SE. | 37 | W | 0 | 5 | 6 | 12 | 28 | 4 | 1 | 3 | 3 | 0 | 14 | 8 | 9 | 10 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 |
| June | 5.2 | SE. | 30 | NE. | 0 | 7 | 8 | 13 | 22 | 6 | 1 | 1 | 2 | 0 | 17 | 10 | 3 | 7 | 6 | 0 | 0 | 0 | 0 | 20 | 0 | 11 | 0 |
| July | 6.2 | SE. | 30 | NE. | 0 | 0 | 11 | 11 | 24 | 7 | 4 | 0 | 4 | 1 | 20 | 6 | 5 | 4 | 4 | 0 | 0 | 0 | 0 | 25 | 0 | 6 | 0 |
| August | 5.6 | NE. | 30 | NE. | 0 | 5 | 17 | 16 | 16 | 3 | 2 | 1 | 2 | 0 | 21 | 6 | 4 | 8 | 6 | 0 | 0 | 0 | 0 | 28 | 0 | 5 | 0 |
| September | 6.4 | NE. | 38 | W. | 0 | 5 | 20 | 12 | 20 | 2 | 0 | 1 | 0 | 0 | 19 | 8 | 3 | 6 | 5 | 0 | 0 | 0 | 0 | 16 | 0 | 4 | 0 |
| October | 6.0 | SE. | 23 | SE. | 0 | 3 | 5 | 13 | 29 | 2 | 2 | 5 | 3 | 0 | 25 | 2 | 4 | 4 | 3 | 0 | 0 | 1 | 0 | 1 | 0 | 4 | 0 |
| November | 7.5 | SE. | 29 | W. | 0 | 5 | 3 | 4 | 35 | 3 | 2 | 3 | 5 | 0 | 14 | 7 | 9 | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| December | 7.5 | NW. | 25 | W. | 0 | 11 | 6 | 8 | 11 | 5 | 2 | 5 | 14 | 0 | 14 | 6 | 11 | 11 | 11 | 2 | 0 | 0 | 1 | 0 | 17 | 4 | 0 |
| Year | 7.2 | SE. | 42 | SE. | 2 | 53 | 120 | 113 | 281 | 44 | 22 | 31 | 64 | 2 | 188 | 87 | 90 | 88 | 74 | 5 | 4 | 1 | 3 | 90 | 32 | 62 | 0 |

SIOUX CITY, IOWA.

[H=1,135 ft.; $h_t$=96 ft.; $h_r$=86 ft.; $h_a$=164 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 14.9 | NW. | 72 | NW. | 5 | 1 | 2 | 1 | 9 | 5 | 1 | 1 | 10 | 1 | 8 | 8 | 15 | 5 | 4 | 5 | 0 | 2 | 18 | 0 | 28 | 0 | 0 |
| February | 13.6 | NW. | 53 | NW. | 4 | 8 | 7 | 1 | 11 | 8 | 4 | 3 | 14 | 0 | 6 | 7 | 15 | 6 | 4 | 6 | 1 | 0 | 10 | 0 | 28 | 1 | 0 |
| March | 13.0 | NW. | 48 | NW. | 1 | 13 | 4 | 2 | 12 | 4 | 2 | 1 | 24 | 0 | 5 | 17 | 9 | 6 | 5 | 5 | 0 | 1 | 9 | 0 | 28 | 0 | 0 |
| April | 15.8 | NW. | 56 | NW. | 7 | 12 | 6 | 6 | 12 | 3 | 0 | 3 | 18 | 0 | 5 | 10 | 15 | 12 | 8 | 3 | 2 | 0 | 0 | 0 | 16 | 3 | 0 |
| May | 14.2 | SE. | 63 | NW. | 6 | 1 | 3 | 5 | 11 | 2 | 1 | 1 | 7 | 0 | 5 | 14 | 12 | 10 | 9 | 0 | 1 | 0 | 0 | 1 | 4 | 5 | 0 |
| June | 10.5 | S. | 48 | SW. | 3 | 1 | 9 | 2 | 7 | 6 | 1 | 1 | 3 | 0 | 8 | 9 | 13 | 15 | 14 | 0 | 1 | 1 | 0 | 2 | 0 | 14 | 0 |
| July | 10.5 | S. | 38 | N. | 0 | 0 | 8 | 3 | 8 | 7 | 1 | 1 | 3 | 0 | 15 | 4 | 12 | 10 | 9 | 0 | 1 | 0 | 0 | 6 | 0 | 6 | 0 |
| August | 10.5 | SE. | 36 | SE. | 0 | 2 | 4 | 1 | 9 | 7 | 3 | 0 | 3 | 2 | 17 | 9 | 5 | 9 | 6 | 0 | 0 | 0 | 0 | 10 | 0 | 11 | 0 |
| September | 10.1 | SE. | 41 | S. | 1 | 1 | 2 | 1 | 12 | 4 | 2 | 0 | 7 | 1 | 12 | 10 | 8 | 10 | 7 | 0 | 0 | 2 | 0 | 0 | 0 | 4 | 0 |
| October | 13.3 | NW. | 50 | S. | 3 | 4 | 6 | 6 | 15 | 5 | 0 | 4 | 21 | 1 | 13 | 7 | 11 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | 1 |
| November | 13.4 | SE. | 46 | S. | 1 | 9 | 8 | 2 | 17 | 8 | 0 | 2 | 14 | 0 | 7 | 8 | 15 | 15 | 12 | 6 | 0 | 2 | 5 | 0 | 15 | 2 | 0 |
| December | 13.2 | NW. | 50 | NW. | 1 | 3 | 2 | 3 | 5 | 6 | 1 | 4 | 38 | 0 | 8 | 7 | 16 | 15 | 8 | 12 | 0 | 1 | 26 | 0 | 30 | 0 | 0 |
| Year | 12.8 | NW. | 72 | NW. | 32 | 55 | 61 | 33 | 128 | 65 | 16 | 21 | 162 | 5 | 109 | 110 | 146 | 119 | 91 | 37 | 6 | 9 | 68 | 19 | 157 | 49 | 1 |

SOUTHEAST FARALLON ISLAND, CAL.

[H=30 ft.; $h_t$=9 ft.; $h_r$=3 ft.; $h_a$=17 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 19.8 | S. | 56 | SE. | 10 | 0 | 3 | 2 | 0 | 16 | 5 | 1 | 4 | 0 | 4 | 5 | 22 | 27 | 23 | 0 | 4 | 4 | 0 | 0 | 0 | 1 | 0 |
| February | 17.6 | NW. | 64 | NW. | 11 | 2 | 0 | 0 | 1 | 5 | 4 | 5 | 11 | 0 | 4 | 14 | 10 | 20 | 15 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| March | 14.7 | NW. | 60 | N. | 9 | 6 | 0 | 0 | 0 | 7 | 1 | 2 | 15 | 0 | 11 | 9 | 11 | 13 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 21.0 | NW. | 60 | N. | 11 | 5 | 1 | 0 | 0 | 1 | 0 | 2 | 21 | 0 | 18 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 19.7 | NW. | 48 | NW. | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 26 | 0 | 14 | 11 | 6 | 1 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| June | 19.9 | NW. | 46 | NW. | 8 | 0 | 0 | 0 | 0 | 1 | 0 | 5 | 24 | 0 | 10 | 10 | 10 | 1 | 1 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| July | 21.6 | NW. | 53 | NW. | 13 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 30 | 0 | 12 | 11 | 8 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 |
| August | 16.0 | NW. | 46 | NW. | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 27 | 0 | 13 | 3 | 13 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| September | 13.2 | NW. | 56 | NW. | 4 | 4 | 0 | 1 | 2 | 6 | 2 | 0 | 15 | 0 | 11 | 6 | 13 | 7 | 3 | 0 | 0 | 12 | 0 | 0 | 0 | 1 | 0 |
| October | 11.3 | NW. | 41 | N. | 1 | 4 | 0 | 1 | 0 | 3 | 3 | 3 | 17 | 0 | 9 | 7 | 15 | 9 | 6 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| November | 12.9 | N. | 49 | NW. | 5 | 6 | 0 | 0 | 0 | 6 | 3 | 5 | 10 | 0 | 10 | 5 | 15 | 12 | 11 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 |
| December | 15.0 | N. | 67 | S. | 8 | 9 | 3 | 4 | 0 | 8 | 1 | 2 | 4 | 0 | 10 | 6 | 15 | 14 | 12 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| Year | 17.1 | NW. | 67 | S. | 89 | 37 | 7 | 8 | 3 | 53 | 21 | 32 | 204 | 0 | 126 | 95 | 144 | 104 | 81 | 0 | 4 | 73 | 0 | 0 | 0 | 2 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

SPOKANE, WASH.

[$\phi$=47° 40′ N.; $\lambda$=117° 25′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 27.838 | 28.523 | 26.997 | 18.9 | 25.0 | 28.2 | 14.9 | 21.6 | 49 | −16 | 14 | 18 | 83 | 76 | 0.101 | 0.116 | 3.10 | 0.56 | 6.0 | 8.3 | 8.2 |
| February | 27.834 | 28.231 | 27.524 | 32.0 | 38.6 | 41.5 | 28.8 | 35.2 | 54 | 12 | 28 | 30 | 87 | 70 | .156 | .165 | 1.96 | .33 | 8.0 | 7.9 | 8.2 |
| March | 27.918 | 28.243 | 27.447 | 33.7 | 50.8 | 52.6 | 31.9 | 42.2 | 63 | 24 | 28 | 27 | 79 | 40 | .152 | .148 | .12 | .05 | 6.2 | 7.1 | 6.7 |
| April | 27.978 | 28.501 | 27.616 | 35.6 | 54.0 | 55.9 | 34.1 | 45.0 | 67 | 24 | 26 | 21 | 68 | 28 | .142 | .115 | .44 | .24 | 6.3 | 7.0 | 6.9 |
| May | 27.911 | 28.230 | 27.625 | 44.7 | 62.4 | 64.0 | 43.4 | 53.7 | 80 | 35 | 34 | 32 | 69 | 34 | .205 | .188 | 1.61 | .73 | 7.0 | 6.8 | 7.3 |
| June | 27.945 | 28.147 | 27.661 | 52.5 | 71.7 | 73.8 | 50.9 | 62.4 | 92 | 46 | 43 | 40 | 70 | 34 | .278 | .252 | 1.03 | .28 | 6.0 | 5.8 | 5.9 |
| July | 27.928 | 28.165 | 27.532 | 54.3 | 76.4 | 78.5 | 53.3 | 65.9 | 95 | 46 | 45 | 41 | 72 | 34 | .304 | .264 | 2.37 | 1.17 | 3.7 | 4.2 | 3.7 |
| August | 27.937 | 28.164 | 27.710 | 53.2 | 80.9 | 82.1 | 51.3 | 66.7 | 97 | 44 | 39 | 33 | 59 | 18 | .237 | .193 | .01 | .01 | 3.2 | 2.4 | 2.3 |
| September | 27.973 | 28.245 | 27.676 | 51.3 | 71.9 | 73.9 | 49.1 | 61.5 | 88 | 36 | 40 | 39 | 66 | 33 | .252 | .250 | .18 | .07 | 4.5 | 4.8 | 5.1 |
| October | 28.010 | 28.302 | 27.603 | 40.7 | 56.7 | 59.6 | 38.0 | 48.8 | 72 | 28 | 36 | 28 | 83 | 52 | .212 | .230 | 1.14 | .31 | 5.2 | 7.1 | 6.4 |
| November | 27.920 | 28.353 | 27.414 | 37.6 | 42.2 | 45.5 | 34.6 | 40.0 | 58 | 16 | 33 | 34 | 84 | 72 | .199 | .203 | 2.69 | .54 | 7.3 | 8.0 | 8.1 |
| December | 28.082 | 28.569 | 27.339 | 23.9 | 28.2 | 30.4 | 21.1 | 25.8 | 45 | 6 | 20 | 23 | 85 | 80 | .110 | .125 | 1.56 | .64 | 7.8 | 8.1 | 8.1 |
| Year | 27.940 | 28.569 | 26.997 | 39.9 | 54.9 | 57.2 | 37.6 | 47.4 | 97 | −16 | 32 | 31 | 75 | 48 | .196 | .187 | 16.21 | 1.17 | 5.9 | 6.5 | 6.4 |

SPRINGFIELD, ILL.

[$\phi$=39° 48′ N.; $\lambda$=89° 39′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.453 | 29.882 | 28.395 | 26.9 | 30.7 | 36.7 | 21.5 | 29.1 | 73 | − 3 | 22 | 24 | 82 | 77 | 0.139 | 0.156 | 2.03 | 1.15 | 8.1 | 7.5 | 8. |
| February | 29.235 | 29.861 | 28.672 | 30.1 | 36.6 | 43.3 | 26.1 | 34.7 | 62 | 9 | 27 | 30 | 88 | 76 | .156 | .172 | 4.34 | 1.75 | 6.3 | 5.2 | 5. |
| March | 29.254 | 29.769 | 28.694 | 34.5 | 42.9 | 49.1 | 31.3 | 40.2 | 65 | 15 | 29 | 30 | 80 | 61 | .162 | .170 | 1.10 | .56 | 5.5 | 5.5 | 6. |
| April | 29.260 | 29.708 | 29.565 | 45.9 | 55.5 | 62.1 | 41.0 | 51.6 | 85 | 25 | 38 | 41 | 73 | 59 | .240 | .277 | 5.34 | 1.25 | 4.8 | 5.9 | 5. |
| May | 29.209 | 29.535 | 28.898 | 56.1 | 66.1 | 71.9 | 51.3 | 61.6 | 89 | 34 | 48 | 49 | 75 | 56 | .352 | .378 | 5.91 | 2.43 | 5.0 | 5.3 | 5. |
| June | 29.293 | 29.590 | 29.055 | 63.3 | 75.6 | 82.8 | 63.2 | 73.0 | 92 | 51 | 63 | 64 | 84 | 70 | .587 | .616 | 4.11 | 1.48 | 5.7 | 7.0 | 6. |
| July | 29.289 | 29.626 | 29.007 | 69.3 | 77.9 | 83.3 | 63.9 | 73.6 | 94 | 51 | 62 | 65 | 79 | 66 | .574 | .622 | 6.47 | 2.45 | 5.0 | 3.3 | 4. |
| August | 29.340 | 29.588 | 29.051 | 71.2 | 82.4 | 89.8 | 67.1 | 78.4 | 96 | 53 | 64 | 65 | 77 | 57 | .604 | .636 | 1.62 | .94 | 2.2 | 2.8 | 2. |
| September | 29.402 | 29.815 | 28.754 | 58.2 | 67.5 | 75.1 | 55.3 | 65.2 | 90 | 39 | 53 | 56 | 82 | 67 | .418 | .467 | 3.67 | 1.51 | 3.3 | 3.7 | 4. |
| October | 29.393 | 29.853 | 28.976 | 44.0 | 54.7 | 62.1 | 41.7 | 51.9 | 86 | 26 | 37 | 41 | 77 | 62 | .232 | .271 | 2.76 | 1.50 | 3.6 | 3.7 | 4. |
| November | 29.411 | 29.794 | 28.880 | 45.9 | 51.0 | 59.3 | 41.6 | 50.4 | 75 | 20 | 41 | 42 | 83 | 72 | .275 | .284 | 3.70 | 1.27 | 6.8 | 5.2 | 6. |
| December | 29.345 | 29.804 | 28.894 | 19.6 | 23.5 | 29.2 | 14.9 | 22.0 | 59 | − 7 | 17 | 20 | 90 | 84 | .114 | .123 | 1.47 | .42 | 6.0 | 6.4 | 6. |
| Year | 29.324 | 29.882 | 28.395 | 47.5 | 55.4 | 62.1 | 43.2 | 52.6 | 96 | − 7 | 42 | 44 | 81 | 67 | .321 | .348 | 42.52 | 2.45 | 5.2 | 5.1 | 5. |

SPRINGFIELD, MO.

[$\phi$=37° 12′ N.; $\lambda$=93° 18′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 28.697 | 29.094 | 27.826 | 30.9 | 36.3 | 42.0 | 25.9 | 34.0 | 75 | − 3 | 28 | 31 | 89 | 84 | 0.163 | 0.201 | 1.71 | 0.95 | 7.8 | 6.6 | 7. |
| February | 28.526 | 29.080 | 27.976 | 33.7 | 43.5 | 50.8 | 29.2 | 40.0 | 67 | 5 | 27 | 31 | 78 | 65 | .158 | .184 | 1.61 | .38 | 5.7 | 4.6 | 4. |
| March | 28.525 | 28.929 | 28.072 | 38.4 | 45.1 | 54.2 | 35.2 | 44.7 | 73 | 20 | 33 | 35 | 80 | 64 | .191 | .211 | 1.53 | .95 | 5.2 | 5.1 | 4. |
| April | 28.556 | 29.052 | 27.931 | 47.5 | 58.9 | 65.5 | 43.0 | 54.2 | 84 | 30 | 39 | 38 | 73 | 50 | .249 | .242 | 4.09 | 1.26 | 3.6 | 4.6 | 4. |
| May | 28.489 | 28.745 | 28.204 | 56.8 | 68.1 | 72.4 | 52.8 | 62.6 | 88 | 30 | 50 | 49 | 77 | 54 | .373 | .368 | 7.11 | 4.17 | 3.5 | 3.8 | 2. |
| June | 28.595 | 28.813 | 28.367 | 67.5 | 75.0 | 80.8 | 63.6 | 72.2 | 90 | 57 | 64 | 65 | 88 | 72 | .593 | .617 | 6.70 | 1.66 | 4.1 | 4.4 | 4. |
| July | 28.589 | 28.881 | 28.348 | 71.8 | 81.2 | 85.6 | 68.1 | 76.8 | 92 | 59 | 66 | 68 | 84 | 66 | .657 | .694 | 9.51 | 6.55 | 3.5 | 2.6 | 2. |
| August | 28.635 | 28.876 | 28.352 | 71.8 | 83.7 | 89.5 | 68.9 | 79.2 | 102 | 56 | 63 | 62 | 76 | 51 | .596 | .584 | 1.23 | 1.02 | 2.4 | 2.1 | 1. |
| September | 28.670 | 28.994 | 28.205 | 62.6 | 73.8 | 81.3 | 60.0 | 70.6 | 96 | 42 | 56 | 54 | 79 | 52 | .471 | .450 | .69 | .29 | 2.8 | 3.4 | 2. |
| October | 28.671 | 28.976 | 28.297 | 50.4 | 62.6 | 70.7 | 47.8 | 59.2 | 90 | 27 | 43 | 42 | 76 | 52 | .286 | .284 | 2.29 | 1.43 | 2.3 | 2.9 | 3. |
| November | 28.691 | 29.052 | 28.331 | 47.7 | 56.7 | 64.8 | 46.0 | 55.4 | 79 | 23 | 43 | 46 | 84 | 68 | .290 | .324 | 5.67 | 2.83 | 4.3 | 2.9 | 5. |
| December | 28.642 | 28.976 | 28.268 | 22.2 | 28.4 | 34.5 | 18.5 | 26.5 | 64 | − 1 | 19 | 24 | 88 | 84 | .120 | .143 | 2.25 | 1.19 | 5.6 | 3.6 | 4. |
| Year | 28.607 | 29.094 | 27.826 | 50.1 | 59.7 | 66.0 | 46.6 | 56.3 | 102 | − 3 | 44 | 45 | 81 | 64 | .347 | .358 | 44.39 | 6.55 | 4.2 | 3.9 | 4. |

SYRACUSE, N. Y.

[$\phi$=43° 2′ N.; $\lambda$=76° 10′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.455 | 30.022 | 28.565 | 25.1 | ..... | 35.0 | 19.1 | 27.0 | 60 | − 9 | 20 | ..... | 82 | ..... | 0.127 | ..... | 3.00 | 0.80 | 9.3 | ..... | 8 |
| February | 29.261 | 29.860 | 28.467 | 26.2 | ..... | 37.4 | 20.9 | 29.2 | 54 | − 8 | 22 | ..... | 84 | ..... | .126 | ..... | 4.55 | 1.95 | 8.8 | ..... | 8 |
| March | 29.180 | 29.770 | 28.444 | 27.1 | ..... | 36.4 | 24.3 | 30.4 | 55 | 13 | 22 | ..... | 79 | ..... | .119 | ..... | 3.80 | 1.30 | 7.5 | ..... | 7 |
| April | 29.330 | 29.973 | 29.000 | 39.8 | ..... | 51.2 | 33.8 | 42.5 | 75 | 19 | 31 | ..... | 71 | ..... | .184 | ..... | 3.09 | 1.16 | 7.9 | ..... | 7 |
| May | 29.281 | 29.629 | 28.854 | 52.9 | ..... | 63.9 | 46.4 | 55.2 | 82 | 33 | 44 | ..... | 72 | ..... | .297 | ..... | 2.84 | .55 | 6.3 | ..... | 6 |
| June | 29.354 | 29.618 | 29.111 | 64.2 | ..... | 74.1 | 57.8 | 66.0 | 84 | 46 | 55 | ..... | 73 | ..... | .448 | ..... | 2.25 | .87 | 5.4 | ..... | 5 |
| July | 29.285 | 29.643 | 29.012 | 66.2 | ..... | 76.9 | 59.8 | 68.4 | 88 | 50 | 55 | ..... | 69 | ..... | .446 | ..... | 1.72 | .81 | 5.7 | ..... | 5 |
| August | 29.396 | 29.741 | 28.958 | 65.1 | ..... | 76.7 | 58.1 | 67.4 | 92 | 44 | 59 | ..... | 80 | ..... | .500 | ..... | 1.96 | 1.54 | 4.4 | ..... | 4 |
| September | 29.458 | 29.829 | 29.150 | 57.1 | ..... | 69.9 | 51.5 | 60.7 | 87 | 43 | 50 | ..... | 79 | ..... | .376 | ..... | 1.68 | .66 | 5.4 | ..... | 5 |
| October | 29.397 | 29.878 | 28.992 | 44.5 | ..... | 54.1 | 40.2 | 47.2 | 79 | 28 | 37 | ..... | 74 | ..... | .225 | ..... | 1.31 | .50 | 6.4 | ..... | 6 |
| November | 29.521 | 30.019 | 29.027 | 40.2 | ..... | 51.7 | 35.5 | 43.6 | 75 | 18 | 33 | ..... | 76 | ..... | .196 | ..... | 1.29 | .38 | 7.2 | ..... | 7 |
| December | 29.268 | 29.871 | 28.818 | 23.5 | ..... | 29.9 | 19.9 | 24.9 | 48 | − 3 | 19 | ..... | 82 | ..... | .104 | ..... | 1.76 | .55 | 9.0 | ..... | 8 |
| Year | 29.353 | 30.022 | 28.444 | 44.3 | ..... | 54.8 | 38.9 | 46.9 | 92 | − 9 | 37 | ..... | 77 | ..... | .262 | ..... | 29.25 | 1.95 | 6.9 | ..... | 6 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

SPOKANE, WASH.

[H=1,929 ft.; $h_t$=101 ft.; $h_r$=94 ft.; $h_a$=110 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 6.7 | N. | 28 | SW. | 0 | 16 | 7 | 3 | 4 | 15 | 10 | 4 | 3 | 0 | 2 | 6 | 23 | 22 | 16 | 14 | 0 | 2 | 13 | 0 | 27 | 0 | 0 |
| February | 6.9 | SW. | 29 | SW. | 0 | 4 | 4 | 7 | 2 | 16 | 17 | 5 | 1 | 0 | 1 | 9 | 18 | 14 | 12 | 7 | 0 | 1 | 2 | 0 | 14 | 0 | 0 |
| March | 6.4 | S. | 40 | SW. | 1 | 7 | 5 | 9 | 3 | 15 | 14 | 6 | 3 | 0 | 5 | 9 | 17 | 5 | 0 | 1 | 2 | 0 | 0 | 0 | 17 | 0 | 0 |
| April | 8.5 | SW. | 30 | SW. | 0 | 5 | 6 | 1 | 2 | 6 | 23 | 3 | 14 | 0 | 5 | 5 | 20 | 4 | 3 | 0 | 1 | 0 | 0 | 0 | 11 | 0 | 0 |
| May | 6.6 | S. | 30 | SW. | 0 | 5 | 7 | 3 | 7 | 17 | 17 | 2 | 4 | 0 | 3 | 8 | 20 | 10 | 5 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 |
| June | 5.8 | S. | 32 | SW. | 0 | 2 | 9 | 4 | 3 | 16 | 10 | 12 | 4 | 0 | 6 | 15 | 9 | 10 | 7 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 |
| July | 6.2 | SW. | 29 | SW. | 0 | 3 | 8 | 3 | 7 | 10 | 24 | 2 | 5 | 0 | 18 | 6 | 7 | 7 | 7 | 0 | 1 | 0 | 0 | 3 | 0 | 2 | 0 |
| August | 6.0 | SW. | 24 | W. | 0 | 1 | 9 | 3 | 4 | 13 | 17 | 6 | 9 | 0 | 22 | 8 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| September | 6.5 | SW. | 28 | S. | 0 | 2 | 12 | 4 | 2 | 16 | 16 | 3 | 5 | 0 | 10 | 10 | 10 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| October | 5.2 | SW. | 29 | SW. | 0 | 9 | 9 | 8 | 3 | 9 | 16 | 3 | 5 | 0 | 5 | 11 | 15 | 10 | 7 | 0 | 0 | 3 | 0 | 0 | 6 | 0 | 0 |
| November | 8.2 | S. | 35 | SW. | 0 | 3 | 6 | 5 | 4 | 25 | 12 | 2 | 3 | 0 | 4 | 3 | 23 | 16 | 15 | 1 | 0 | 0 | 3 | 0 | 12 | 0 | 0 |
| December | 4.9 | N. | 24 | SW. | 0 | 15 | 11 | 6 | 2 | 10 | 6 | 3 | 9 | 0 | 3 | 4 | 24 | 9 | 9 | 6 | 0 | 0 | 18 | 0 | 30 | 0 | 0 |
| Year | 6.5 | SW. | 40 | SW. | 1 | 72 | 93 | 56 | 43 | 168 | 182 | 51 | 65 | 0 | 84 | 94 | 187 | 114 | 83 | 29 | 7 | 6 | 36 | 7 | 117 | 7 | 1 |

SPRINGFIELD, ILL.

[H=644 ft.; $h_t$=10 ft.; $h_r$=4 ft.; $h_a$=91 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 10.1 | S. | 36 | NW. | 0 | 7 | 7 | 2 | 6 | 20 | 5 | 3 | 12 | 0 | 4 | 2 | 25 | 12 | 8 | 7 | 0 | 0 | 12 | 0 | 22 | 2 | 0 |
| February | 10.4 | S. | 33 | SW. | 0 | 4 | 4 | 3 | 6 | 12 | 10 | 9 | 8 | 0 | 10 | 7 | 11 | 11 | 11 | 4 | 0 | 3 | 3 | 0 | 19 | 3 | 0 |
| March | 10.3 | NW. | 33 | SW. | 0 | 7 | 10 | 5 | 5 | 2 | 6 | 4 | 23 | 0 | 6 | 13 | 12 | 8 | 4 | 2 | 0 | 2 | 0 | 0 | 14 | 2 | 0 |
| April | 12.2 | S. | 40 | S. | 1 | 6 | 2 | 3 | 7 | 17 | 9 | 6 | 10 | 0 | 9 | 10 | 11 | 12 | 10 | 0 | 3 | 0 | 0 | 0 | 3 | 6 | 0 |
| May | 9.6 | S. | 36 | SW. | 0 | 4 | 7 | 11 | 11 | 13 | 2 | 10 | 4 | 0 | 11 | 10 | 10 | 10 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 6 | 0 |
| June | 6.8 | S. | 39 | E. | 0 | 11 | 9 | 4 | 4 | 10 | 12 | 4 | 5 | 1 | 9 | 7 | 14 | 11 | 8 | 0 | 0 | 0 | 0 | 2 | 0 | 11 | 0 |
| July | 7.2 | S. | 34 | NW. | 0 | 2 | 9 | 7 | 9 | 10 | 9 | 5 | 10 | 1 | 14 | 7 | 10 | 11 | 9 | 0 | 0 | 0 | 0 | 4 | 0 | 6 | 0 |
| August | 5.9 | S. | 35 | NW. | 0 | 10 | 7 | 11 | 7 | 5 | 11 | 7 | 4 | 0 | 24 | 5 | 2 | 4 | 3 | 0 | 0 | 0 | 0 | 16 | 0 | 4 | 0 |
| September | 7.4 | SE. | 23 | S. | 0 | 7 | 7 | 7 | 14 | 7 | 5 | 4 | 8 | 1 | 15 | 6 | 9 | 9 | 7 | 0 | 0 | 1 | 0 | 1 | 0 | 4 | 0 |
| October | 9.1 | W. | 30 | N. | 0 | 4 | 6 | 6 | 10 | 10 | 9 | 12 | 5 | 0 | 14 | 9 | 8 | 10 | 8 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 |
| November | 10.5 | S. | 29 | SW. | 0 | 4 | 7 | 4 | 12 | 19 | 5 | 5 | 4 | 0 | 8 | 11 | 11 | 9 | 8 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 0 |
| December | 9.4 | W. | 31 | SW. | 0 | 2 | 0 | 3 | 9 | 8 | 13 | 19 | 8 | 0 | 7 | 5 | 19 | 11 | 8 | 8 | 0 | 1 | 21 | 0 | 27 | 0 | 0 |
| Year | 9.1 | S. | 40 | S. | 1 | 68 | 75 | 66 | 100 | 133 | 96 | 88 | 101 | 3 | 131 | 92 | 142 | 118 | 93 | 21 | 4 | 7 | 36 | 23 | 94 | 52 | 0 |

SPRINGFIELD, MO.

[H=1,324 ft.; $h_t$=98 ft.; $h_r$=6 ft.; $h_a$=104 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 12.0 | S. | 59 | SW. | 2 | 9 | 10 | 1 | 13 | 15 | 5 | 1 | 7 | 1 | 5 | 6 | 20 | 6 | 3 | 2 | 0 | 1 | 11 | 0 | 20 | 3 | 0 |
| February | 13.5 | S. | 46 | W. | 2 | 6 | 3 | 2 | 10 | 14 | 4 | 10 | 7 | 0 | 15 | 3 | 10 | 10 | 9 | 2 | 0 | 0 | 2 | 0 | 16 | 2 | 0 |
| March | 11.6 | NW. | 36 | NW. | 0 | 10 | 9 | 7 | 7 | 8 | 3 | 4 | 14 | 0 | 16 | 7 | 8 | 4 | 2 | 0 | 0 | 1 | 0 | 0 | 10 | 4 | 0 |
| April | 14.5 | S. | 48 | W. | 4 | 5 | 6 | 2 | 13 | 19 | 1 | 4 | 10 | 0 | 17 | 6 | 7 | 8 | 6 | 1 | 1 | 1 | 0 | 0 | 2 | 6 | 0 |
| May | 11.2 | SE. | 64 | S. | 4 | 4 | 5 | 5 | 18 | 12 | 6 | 5 | 6 | 1 | 20 | 6 | 5 | 8 | 6 | 0 | 1 | 0 | 0 | 0 | 1 | 6 | 0 |
| June | 7.7 | S. | 32 | NW. | 0 | 1 | 5 | 8 | 13 | 18 | 7 | 3 | 5 | 0 | 12 | 12 | 6 | 16 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 |
| July | 8.3 | SE. | 27 | NE. | 0 | 7 | 8 | 8 | 14 | 13 | 2 | 3 | 7 | 0 | 21 | 9 | 1 | 12 | 7 | 0 | 0 | 0 | 0 | 4 | 0 | 14 | 0 |
| August | 7.8 | SE. | 26 | SW. | 0 | 6 | 5 | 14 | 23 | 6 | 5 | 2 | 1 | 0 | 24 | 6 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 14 | 0 | 3 | 1 |
| September | 9.1 | SE. | 31 | W. | 0 | 8 | 12 | 4 | 24 | 4 | 1 | 2 | 4 | 1 | 22 | 3 | 5 | 9 | 4 | 0 | 0 | 1 | 0 | 7 | 0 | 5 | 0 |
| October | 10.8 | SE. | 32 | NW. | 0 | 3 | 2 | 6 | 16 | 14 | 7 | 7 | 7 | 0 | 20 | 5 | 6 | 8 | 7 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 |
| November | 12.7 | SE. | 38 | SE. | 0 | 0 | 3 | 2 | 25 | 14 | 2 | 6 | 7 | 1 | 8 | 12 | 10 | 10 | 9 | 0 | 0 | 3 | 0 | 0 | 3 | 3 | 0 |
| December | 11.3 | NW. | 38 | W. | 0 | 1 | 1 | 4 | 7 | 4 | 9 | 17 | 19 | 0 | 13 | 8 | 10 | 9 | 7 | 4 | 0 | 0 | 15 | 0 | 26 | 1 | 0 |
| Year | 10.9 | SE. | 64 | S. | 12 | 60 | 69 | 63 | 183 | 141 | 52 | 64 | 94 | 4 | 193 | 83 | 89 | 104 | 76 | 9 | 2 | 7 | 28 | 26 | 79 | 66 | 1 |

SYRACUSE, N. Y.

[H=597 ft.; $h_t$=97 ft; $h_r$=65 ft.; $h_a$=113 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 13.3 | S. | 46 | W. | 1 | 4 | 5 | 5 | 5 | 21 | 1 | 11 | 10 | 0 | 1 | 4 | 26 | 18 | 13 | 13 | 0 | 0 | 13 | 0 | 22 | 1 | 0 |
| February | 14.1 | W. | 54 | SW. | 4 | 2 | 5 | 9 | 3 | 10 | 6 | 12 | 9 | 0 | 1 | 5 | 22 | 20 | 12 | 11 | 0 | 0 | 10 | 0 | 26 | 0 | 0 |
| March | 14.1 | NW. | 54 | W. | 4 | 3 | 3 | 5 | 3 | 12 | 4 | 19 | 13 | 0 | 5 | 6 | 20 | 14 | 12 | 10 | 0 | 0 | 9 | 0 | 30 | 0 | 0 |
| April | 15.8 | S. | 58 | S. | 9 | 4 | 0 | 5 | 7 | 14 | 4 | 16 | 10 | 0 | 4 | 9 | 17 | 16 | 11 | 3 | 0 | 0 | 1 | 0 | 13 | 3 | 0 |
| May | 10.5 | NW. | 46 | SW. | 3 | 3 | 2 | 5 | 6 | 8 | 11 | 12 | 15 | 0 | 6 | 9 | 16 | 18 | 12 | 0 | 0 | 1 | 0 | 0 | 0 | 8 | 0 |
| June | 9.4 | NW. | 38 | W. | 0 | 3 | 3 | 4 | 2 | 12 | 10 | 10 | 16 | 0 | 9 | 15 | 6 | 9 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| July | 11.7 | S. | 36 | NW. | 0 | 5 | 1 | 2 | 2 | 18 | 10 | 10 | 14 | 0 | 9 | 13 | 9 | 9 | 7 | 0 | 1 | 0 | 0 | 0 | 0 | 7 | 0 |
| August | 9.7 | S. | 36 | S. | 0 | 4 | 4 | 4 | 6 | 18 | 7 | 6 | 13 | 0 | 15 | 10 | 6 | 7 | 5 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 0 |
| September | 10.3 | S. | 39 | S. | 0 | 1 | 0 | 3 | 11 | 17 | 7 | 11 | 10 | 0 | 11 | 11 | 8 | 9 | 7 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 |
| October | 11.4 | W. | 39 | SW. | 0 | 3 | 2 | 1 | 4 | 16 | 9 | 18 | 9 | 0 | 6 | 8 | 17 | 13 | 11 | 1 | 0 | 1 | 0 | 0 | 2 | 1 | 0 |
| November | 13.3 | S. | 46 | S. | 4 | 5 | 1 | 5 | 0 | 20 | 7 | 11 | 11 | 0 | 7 | 7 | 16 | 12 | 10 | 4 | 0 | 0 | 2 | 0 | 13 | 0 | 0 |
| December | 12.7 | SW. | 48 | W. | 1 | 5 | 1 | 7 | 3 | 4 | 21 | 12 | 9 | 0 | 2 | 6 | 23 | 17 | 12 | 15 | 0 | 0 | 19 | 0 | 30 | 0 | 1 |
| Year | 12.2 | S. | 58 | S. | 26 | 42 | 27 | 55 | 52 | 170 | 97 | 148 | 139 | 0 | 76 | 103 | 186 | 162 | 117 | 57 | 1 | 4 | 54 | 2 | 136 | 31 | 1 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

TACOMA WASH.

[$\phi$=47° 16′ N.; $\lambda$=122° 23′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.599 | 30.260 | 28.869 | 32.8 | 35.9 | 39.1 | 29.0 | 34.0 | 54 | 9 | 30 | 32 | 90 | 86 | 0.177 | 0.188 | 8.20 | 1.50 | 7.5 | 9.0 | 9.2 |
| February | 29.654 | 29.997 | 29.260 | 39.4 | 44.2 | 46.6 | 36.4 | 41.5 | 54 | 29 | 37 | 38 | 91 | 79 | .223 | .232 | 5.33 | .64 | 8.1 | 9.0 | 7.6 |
| March | 29.803 | 30.219 | 29.332 | 39.4 | 49.1 | 51.5 | 36.7 | 44.1 | 60 | 30 | 37 | 40 | 91 | 72 | .222 | .248 | 2.12 | .54 | 5.9 | 6.6 | 5.9 |
| April | 29.979 | 30.345 | 29.664 | 40.9 | 53.5 | 55.6 | 39.0 | 47.3 | 68 | 33 | 38 | 38 | 88 | 57 | .226 | .229 | .74 | .36 | 6.6 | 6.6 | 5.3 |
| May | 29.845 | 30.110 | 29.479 | 45.4 | 58.4 | 60.8 | 44.0 | 52.4 | 77 | 38 | 41 | 44 | 86 | 62 | .262 | .293 | 2.03 | .57 | 6.6 | 6.6 | 6.0 |
| June | 29.851 | 30.099 | 29.436 | 51.3 | 67.1 | 68.9 | 50.2 | 59.6 | 85 | 45 | 46 | 46 | 82 | 48 | .307 | .310 | .60 | .42 | 5.6 | 4.9 | 4.7 |
| July | 29.848 | 30.000 | 29.524 | 53.0 | 68.0 | 69.5 | 52.3 | 60.9 | 82 | 46 | 48 | 49 | 84 | 52 | .337 | .348 | .86 | .51 | 5.4 | 5.3 | 5.5 |
| August | 29.839 | 30.074 | 29.556 | 52.7 | 69.6 | 71.4 | 51.7 | 61.6 | 79 | 47 | 48 | 50 | 84 | 52 | .333 | .371 | .33 | .18 | 4.8 | 3.1 | 3.8 |
| September | 29.841 | 30.165 | 29.490 | 52.2 | 66.9 | 69.3 | 50.1 | 59.7 | 86 | 42 | 49 | 52 | 89 | 62 | .348 | .397 | .90 | .33 | 3.8 | 4.7 | 4.8 |
| October | 29.838 | 30.159 | 29.389 | 47.0 | 56.1 | 58.3 | 44.5 | 51.4 | 74 | 35 | 45 | 48 | 92 | 75 | .300 | .336 | 3.35 | .98 | 5.3 | 6.6 | 6.9 |
| November | 29.724 | 30.179 | 29.088 | 43.8 | 46.9 | 50.3 | 40.3 | 45.3 | 60 | 25 | 41 | 43 | 90 | 87 | .266 | .285 | 14.73 | 2.59 | 7.6 | 8.7 | 8.7 |
| December | 29.874 | 30.400 | 29.010 | 33.9 | 37.9 | 39.9 | 30.7 | 35.3 | 56 | 19 | 32 | 34 | 91 | 87 | .182 | .198 | 4.95 | 1.72 | 5.7 | 7.7 | 7.5 |
| Year | 29.808 | 30.400 | 28.869 | 44.3 | 54.5 | 56.8 | 42.1 | 49.4 | 86 | 9 | 41 | 43 | 88 | 68 | .265 | .286 | 44.14 | 2.59 | 6.1 | 6.6 | 6.3 |

TAMPA, FLA.

[$\phi$=27° 57′ N.; $\lambda$=82° 27′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 30.105 | 30.319 | 29.770 | 58.1 | 64.7 | 73.7 | 56.8 | 65.2 | 81 | 30 | 56 | 57 | 93 | 78 | 0.402 | 0.479 | 1.78 | 1.68 | 4.8 | 3.6 | 5.1 |
| February | 30.113 | 30.450 | 29.911 | 54.5 | 62.8 | 72.1 | 51.1 | 61.6 | 83 | 27 | 49 | 51 | 82 | 66 | .386 | .397 | 1.01 | .29 | 3.8 | 3.1 | 3.8 |
| March | 29.946 | 30.156 | 29.636 | 61.9 | 68.0 | 76.6 | 58.6 | 67.6 | 84 | 42 | 56 | 58 | 82 | 72 | .480 | .507 | 1.26 | .48 | 4.7 | 2.6 | 4.0 |
| April | 30.043 | 30.251 | 29.876 | 68.2 | 72.6 | 81.9 | 63.9 | 72.9 | 90 | 53 | 63 | 63 | 85 | 74 | .598 | .592 | 1.25 | .63 | 6.0 | 3.1 | 4.9 |
| May | 29.923 | 30.151 | 29.748 | 73.2 | 76.3 | 85.4 | 67.5 | 76.4 | 94 | 58 | 66 | 66 | 80 | 70 | .656 | .633 | 2.73 | 1.38 | 4.3 | 5.0 | 4.9 |
| June | 29.968 | 30.123 | 29.715 | 78.6 | 78.8 | 89.3 | 72.7 | 81.0 | 94 | 69 | 73 | 72 | 82 | 79 | .803 | .777 | 11.31 | 5.54 | 3.2 | 7.2 | 5.5 |
| July | 29.995 | 30.204 | 29.806 | 78.8 | 78.9 | 87.3 | 73.6 | 80.4 | 93 | 69 | 74 | 73 | 85 | 83 | .830 | .812 | 10.47 | 3.13 | 4.2 | 7.7 | 6.1 |
| August | 29.930 | 30.084 | 29.686 | 79.5 | 79.3 | 88.6 | 74.2 | 81.4 | 93 | 69 | 75 | 74 | 87 | 84 | .872 | .839 | 13.01 | 3.74 | 4.6 | 7.2 | 5.8 |
| September | 29.922 | 30.054 | 29.751 | 75.7 | 78.0 | 88.2 | 71.2 | 79.7 | 92 | 60 | 71 | 70 | 85 | 78 | .761 | .745 | 2.30 | 1.06 | 3.0 | 5.8 | 4.8 |
| October | 30.030 | 30.236 | 29.642 | 67.2 | 73.2 | 82.0 | 63.3 | 72.6 | 87 | 46 | 61 | 61 | 82 | 67 | .554 | .551 | .44 | .20 | 3.8 | 3.3 | 4.1 |
| November | 30.131 | 30.347 | 29.722 | 59.7 | 67.4 | 77.7 | 57.4 | 67.6 | 86 | 46 | 56 | 57 | 89 | 71 | .466 | .483 | .56 | .51 | 1.9 | 1.0 | 2.7 |
| December | 30.044 | 30.394 | 29.820 | 51.9 | 58.0 | 66.9 | 48.3 | 57.6 | 80 | 26 | 48 | 48 | 86 | 71 | .363 | .369 | 1.06 | .36 | 4.6 | 2.1 | 4.3 |
| Year | 30.012 | 30.450 | 29.636 | 67.3 | 71.5 | 80.8 | 63.2 | 72.0 | 94 | 26 | 62 | 62 | 85 | 74 | .603 | .599 | 47.18 | 5.54 | 4.1 | 4.3 | 4.7 |

TATOOSH ISLAND, WASH.

[$\phi$=48° 23′ N.; $\lambda$=124° 44′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.635 | 30.286 | 28.920 | 36.0 | 35.3 | 39.3 | 31.8 | 35.6 | 50 | 14 | 30 | 30 | 80 | 82 | 0.177 | 0.174 | 9.26 | 1.56 | 5.9 | 8.2 | 7.9 |
| February | 29.693 | 30.061 | 29.280 | 41.0 | 42.5 | 44.8 | 38.5 | 41.6 | 51 | 33 | 37 | 37 | 87 | 82 | .226 | .224 | 13.08 | 2.11 | 7.9 | 8.9 | 8.2 |
| March | 29.892 | 30.345 | 29.275 | 42.0 | 45.2 | 47.4 | 39.7 | 43.6 | 51 | 35 | 39 | 39 | 88 | 80 | .235 | .240 | 5.90 | 1.62 | 6.6 | 6.5 | 6.7 |
| April | 30.102 | 30.445 | 29.797 | 43.4 | 47.3 | 50.0 | 42.0 | 46.0 | 55 | 37 | 39 | 40 | 83 | 76 | .235 | .248 | 1.86 | .92 | 6.7 | 6.7 | 5.6 |
| May | 29.964 | 30.205 | 29.514 | 45.9 | 50.0 | 52.1 | 44.2 | 48.2 | 63 | 39 | 42 | 44 | 88 | 80 | .272 | .286 | 3.29 | .67 | 8.0 | 6.7 | 7.1 |
| June | 29.992 | 30.238 | 29.500 | 49.3 | 54.1 | 56.4 | 47.8 | 52.1 | 65 | 45 | 46 | 48 | 90 | 81 | .314 | .334 | 2.36 | .78 | 7.2 | 5.7 | 6.0 |
| July | 29.984 | 30.217 | 29.693 | 52.2 | 56.3 | 58.0 | 50.7 | 54.4 | 62 | 47 | 50 | 52 | 92 | 85 | .359 | .385 | 1.83 | 1.24 | 7.7 | 6.0 | 6.6 |
| August | 29.973 | 30.178 | 29.662 | 52.4 | 55.8 | 58.1 | 50.7 | 54.4 | 64 | 48 | 50 | 51 | 93 | 85 | .364 | .377 | 2.97 | 1.66 | 7.0 | 5.9 | 6.1 |
| September | 29.963 | 30.278 | 29.563 | 50.9 | 54.1 | 57.1 | 48.9 | 53.0 | 68 | 44 | 48 | 50 | 92 | 86 | .340 | .356 | 2.03 | .60 | 4.7 | 5.2 | 5.9 |
| October | 29.915 | 30.257 | 29.416 | 49.5 | 51.5 | 54.4 | 47.5 | 51.0 | 69 | 43 | 46 | 47 | 88 | 85 | .313 | .323 | 9.03 | 1.58 | 6.6 | 8.3 | 7.6 |
| November | 29.764 | 30.245 | 29.001 | 45.3 | 46.0 | 49.0 | 42.0 | 45.5 | 55 | 35 | 40 | 41 | 83 | 83 | .257 | .263 | 16.52 | 2.92 | 7.0 | 8.4 | 7.9 |
| December | 29.929 | 30.477 | 28.953 | 39.5 | 40.0 | 42.8 | 36.8 | 39.8 | 50 | 31 | 34 | 34 | 80 | 78 | .197 | .195 | 6.77 | 3.05 | 5.0 | 8.2 | 6.7 |
| Year | 29.900 | 30.477 | 28.920 | 45.6 | 48.2 | 50.8 | 43.4 | 47.1 | 69 | 14 | 42 | 43 | 87 | 82 | .274 | .284 | 74.90 | 3.05 | 6.7 | 7.1 | 6.9 |

TAYLOR, TEX.

[$\phi$=30° 35′ N.; $\lambda$=97° 20′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.535 | 29.974 | 29.230 | 46.9 | 56.1 | 62.8 | 43.3 | 53.0 | 82 | 15 | 41 | .... | 82 | .... | 0.303 | ..... | 0.01 | 0.01 | 7.0 | ..... | 5.5 |
| February | 29.427 | 29.947 | 29.009 | 47.5 | 61.7 | 68.0 | 42.5 | 55.2 | 84 | 19 | 37 | .... | 68 | .... | .261 | ..... | .96 | .61 | 4.2 | ..... | 3.4 |
| March | 29.315 | 29.750 | 28.903 | 52.0 | 68.4 | 74.0 | 49.4 | 61.7 | 89 | 34 | 43 | .... | 72 | .... | .302 | ..... | 1.74 | .83 | 5.2 | ..... | 4.4 |
| April | 29.370 | 29.847 | 29.094 | 57.2 | 71.7 | 77.4 | 54.7 | 66.0 | 92 | 38 | 51 | .... | 81 | .... | .411 | ..... | 2.08 | 1.11 | 5.8 | ..... | 4.5 |
| May | 29.268 | 29.613 | 29.007 | 65.3 | 78.9 | 82.9 | 62.7 | 72.8 | 90 | 47 | 60 | .... | 84 | .... | .548 | ..... | 3.01 | .82 | 5.6 | ..... | 4.2 |
| June | 29.339 | 29.528 | 29.231 | 73.5 | 85.6 | 91.7 | 70.4 | 81.0 | 97 | 59 | 70 | .... | 88 | .... | .728 | ..... | 1.83 | .78 | 3.3 | ..... | 3.1 |
| July | 29.342 | 29.532 | 29.223 | 76.9 | 91.3 | 96.3 | 74.6 | 85.4 | 101 | 67 | 72 | .... | 87 | .... | .797 | ..... | 1.23 | 1.20 | 2.9 | ..... | 2.5 |
| August | 29.346 | 29.474 | 29.179 | 75.3 | 88.5 | 95.8 | 73.0 | 84.4 | 100 | 68 | 70 | .... | 84 | .... | .735 | ..... | 2.73 | 1.95 | 2.5 | ..... | 2.8 |
| September | 29.416 | 29.644 | 29.067 | 67.0 | 83.8 | 90.2 | 65.8 | 78.0 | 97 | 47 | 59 | .... | 77 | .... | .551 | ..... | .21 | .18 | 1.9 | ..... | 1.8 |
| October | 29.466 | 29.724 | 29.243 | 58.6 | 75.1 | 82.2 | 56.9 | 69.6 | 93 | 42 | 53 | .... | 84 | .... | .430 | ..... | 3.10 | 2.66 | 2.7 | ..... | 1.9 |
| November | 29.484 | 29.900 | 29.202 | 50.0 | 67.1 | 75.4 | 55.7 | 65.6 | 83 | 35 | 55 | .... | 88 | .... | .465 | ..... | 2.10 | 1.10 | 5.0 | ..... | 4.3 |
| December | 29.507 | 29.785 | 29.123 | 37.5 | 46.8 | 53.4 | 33.5 | 43.4 | 80 | 20 | 33 | .... | 82 | .... | .211 | ..... | 1.66 | .62 | 4.5 | ..... | 4.2 |
| Year | 29.401 | 29.974 | 28.903 | 59.7 | 72.9 | 79.2 | 56.9 | 68.0 | 109 | 15 | 54 | .... | 81 | .... | .478 | ..... | 20.72 | 2.66 | 4.2 | ..... | 3.6 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

TACOMA, WASH.

[H=213 ft.; $h_t$=113 ft.; $h_r$=104 ft.; $h_a$=120 ft.]

| Month. | Wind. By self register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Aurora. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 6.2 | SW. | 36 | NE. | 0 | 4 | 12 | 7 | 12 | 6 | 20 | 0 | 1 | 0 | 0 | 4 | 27 | 23 | 21 | 10 | 0 | 3 | 9 | 0 | 17 | 0 | 0 |
| February | 7.7 | SW. | 37 | SW. | 0 | 4 | 2 | 1 | 3 | 11 | 34 | 0 | 1 | 0 | 2 | 9 | 17 | 23 | 19 | 3 | 0 | 0 | 2 | 0 | 5 | 0 | 0 |
| March | 5.7 | SW. | 34 | SW. | 0 | 21 | 4 | 4 | 3 | 4 | 18 | 4 | 3 | 1 | 9 | 10 | 12 | 14 | 11 | 0 | 0 | 7 | 0 | 0 | 4 | 0 | 0 |
| April | 6.9 | SW. | 31 | SW. | 0 | 12 | 3 | 0 | 2 | 3 | 29 | 7 | 2 | 2 | 8 | 11 | 11 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 6.0 | SW. | 26 | SW. | 0 | 16 | 2 | 0 | 0 | 4 | 21 | 13 | 3 | 3 | 8 | 10 | 13 | 13 | 8 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 6.1 | N. | 20 | SW. | 0 | 20 | 5 | 1 | 1 | 3 | 14 | 12 | 4 | 0 | 13 | 8 | 9 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| July | 6.1 | N. | 23 | SW. | 0 | 18 | 2 | 0 | 1 | 5 | 16 | 15 | 3 | 2 | 10 | 11 | 10 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 5.6 | N. | 22 | W. | 0 | 22 | 1 | 1 | 0 | 2 | 15 | 10 | 3 | 8 | 16 | 11 | 4 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| September | 4.8 | N. | 25 | W. | 0 | 27 | 0 | 3 | 0 | 2 | 14 | 6 | 4 | 4 | 11 | 9 | 10 | 9 | 7 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| October | 4.9 | SW. | 26 | SW. | 0 | 12 | 3 | 2 | 7 | 7 | 18 | 9 | 1 | 3 | 9 | 3 | 19 | 12 | 11 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 |
| November | 8.3 | SW. | 34 | SW. | 0 | 8 | 4 | 0 | 2 | 10 | 33 | 2 | 1 | 1 | 2 | 2 | 26 | 24 | 24 | 0 | 3 | 2 | 0 | 0 | 3 | 0 | 0 |
| December | 5.9 | SW. | 28 | SW. | 0 | 6 | 14 | 9 | 12 | 6 | 14 | 0 | 0 | 1 | 7 | 3 | 21 | 12 | 12 | 4 | 0 | 7 | 1 | 0 | 19 | 0 | 0 |
| Year | 6.2 | SW. | 37 | SW. | 0 | 170 | 52 | 28 | 43 | 63 | 246 | 78 | 25 | 25 | 95 | 91 | 179 | 153 | 128 | 17 | 4 | 32 | 10 | 0 | 48 | 0 | 0 |

TAMPA, FLA.

[H=35 ft.; $h_t$=79 ft.; $h_r$=71 ft.; $h_a$=96 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 7.3 | NE. | 37 | W. | 0 | 8 | 25 | 3 | 1 | 2 | 1 | 5 | 17 | 0 | 10 | 13 | 8 | 4 | 3 | 0 | 0 | 4 | 0 | 0 | | 2 | 0 |
| Febuary | 8.7 | NW. | 32 | SW. | 0 | 5 | 8 | 7 | 6 | 6 | 6 | 5 | 13 | 0 | 13 | 10 | 5 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 | 3 | 0 |
| March | 9.3 | SW. | 41 | SW. | 1 | 5 | 10 | 6 | 6 | 4 | 13 | 7 | 11 | 0 | 12 | 16 | 3 | 6 | 4 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| April | 8.3 | NE. | 31 | NW. | 0 | 2 | 17 | 7 | 9 | 1 | 8 | 7 | 9 | 0 | 7 | 19 | 4 | 6 | 4 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 0 |
| May | 7.8 | NE. | 28 | SW. | 0 | 1 | 23 | 5 | 6 | 2 | 4 | 5 | 15 | 1 | 12 | 11 | 8 | 6 | 6 | 0 | 0 | 1 | 0 | 5 | 0 | 10 | 0 |
| June | 7.9 | NE. | 40 | SW. | 1 | 7 | 13 | 11 | 8 | 7 | 5 | 5 | 4 | 0 | 6 | 18 | 6 | 17 | 15 | 0 | 0 | 0 | 0 | 18 | 0 | 18 | 0 |
| July | 6.9 | E. | 36 | W. | 0 | 2 | 12 | 12 | 6 | 3 | 11 | 12 | 4 | 0 | 7 | 13 | 11 | 17 | 14 | 0 | 0 | 0 | 0 | 6 | 0 | 16 | 0 |
| August | 7.6 | NE. | 26 | NE. | 0 | 1 | 24 | 13 | 2 | 1 | 8 | 9 | 4 | 0 | 4 | 17 | 10 | 23 | 17 | 0 | 0 | 0 | 0 | 14 | 0 | 17 | 0 |
| September | 7.7 | NE. | 29 | NE. | 0 | 7 | 37 | 7 | 1 | 0 | 1 | 2 | 5 | 0 | 7 | 20 | 3 | 12 | 8 | 0 | 0 | 0 | 0 | 12 | 0 | 7 | 0 |
| October | 8.5 | NE. | 26 | NE. | 0 | 7 | 41 | 5 | 1 | 0 | 0 | 1 | 6 | 1 | 18 | 5 | 8 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| November | 8.0 | NE. | 33 | E. | 0 | 8 | 34 | 6 | 0 | 1 | 1 | 2 | 7 | 1 | 19 | 10 | 1 | 4 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| December | 8.0 | NW. | 29 | W. | 0 | 11 | 14 | 4 | 4 | 7 | 3 | 0 | 19 | 0 | 15 | 9 | 7 | 9 | 6 | 0 | 0 | 2 | 0 | 0 | 2 | 1 | 0 |
| Year | 8.0 | NE. | 41 | SW. | 2 | 64 | 258 | 86 | 50 | 34 | 61 | 60 | 114 | 3 | 130 | 161 | 74 | 114 | 87 | 0 | 0 | 13 | 0 | 56 | 4 | 77 | 0 |

TATOOSH ISLAND, WASH.

[H=86 ft.; $h_t$=7 ft.; $h_r$=4 ft.; $h_a$=57 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.8 | E. | 76 | E. | 24 | 1 | 0 | 34 | 7 | 4 | 8 | 5 | 3 | 0 | 3 | 4 | 24 | 25 | 22 | 7 | 0 | 0 | 8 | 0 | 11 | 0 | 0 |
| February | 18.9 | SE. | 62 | E. | 10 | 0 | 1 | 17 | 11 | 13 | 9 | 3 | 1 | 1 | 1 | 5 | 22 | 24 | 23 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 |
| March | 14.4 | E. | 54 | NE. | 8 | 1 | 7 | 10 | 7 | 10 | 11 | 9 | 7 | 0 | 6 | 10 | 15 | 17 | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 13.5 | W. | 43 | W. | 1 | 1 | 7 | 3 | 5 | 8 | 15 | 18 | 3 | 0 | 7 | 14 | 9 | 12 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 11.2 | W. | 53 | S. | 2 | 0 | 5 | 5 | 2 | 13 | 16 | 19 | 2 | 0 | 4 | 10 | 17 | 18 | 13 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| June | 9.8 | SW. | 46 | S. | 1 | 0 | 4 | 3 | 4 | 14 | 20 | 14 | 1 | 0 | 9 | 6 | 15 | 13 | 7 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| July | 8.5 | S. | 28 | S. | 0 | 0 | 3 | 3 | 3 | 20 | 14 | 16 | 3 | 0 | 7 | 8 | 16 | 13 | 6 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| August | 10.1 | S. | 52 | S. | 3 | 1 | 6 | 3 | 5 | 19 | 19 | 6 | 3 | 0 | 8 | 9 | 14 | 14 | 8 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| September | 11.8 | S. | 52 | E. | 1 | 1 | 7 | 7 | 2 | 26 | 8 | 7 | 2 | 0 | 8 | 9 | 13 | 9 | 8 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 1 |
| October | 15.0 | NE. | 50 | E. | 6 | 0 | 18 | 11 | 8 | 13 | 7 | 3 | 2 | 0 | 4 | 6 | 21 | 19 | 19 | 0 | 1 | 3 | 0 | 0 | 0 | 1 | 0 |
| November | 20.0 | E. | 68 | S. | 15 | 1 | 8 | 12 | 10 | 10 | 11 | 8 | 0 | 0 | 3 | 5 | 22 | 24 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| December | 24.7 | E. | 86 | E. | 19 | 1 | 14 | 28 | 6 | 5 | 4 | 3 | 1 | 0 | 5 | 11 | 15 | 12 | 11 | 3 | 0 | 0 | 0 | 0 | 3 | 1 | 0 |
| Year | 15.6 | E. | 86 | E. | 90 | 7 | 80 | 136 | 70 | 155 | 142 | 111 | 28 | 1 | 65 | 97 | 203 | 200 | 166 | 11 | 1 | 31 | 8 | 0 | 14 | 4 | 1 |

TAYLOR, TEX.

[H=583 ft.; $h_t$=55 ft.; $h_r$=48 ft.; $h_a$=63 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 10.4 | N. | 42 | N. | 1 | 12 | 0 | 2 | 2 | 12 | 0 | 0 | 3 | 0 | 11 | 9 | 11 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 7 | 0 | 0 |
| February | 11.0 | S. | 35 | NW. | 0 | 4 | 2 | 0 | 4 | 10 | 0 | 2 | 6 | 0 | 15 | 8 | 5 | 4 | 4 | 0 | 1 | 0 | 0 | 0 | 7 | 2 | 0 |
| March | 10.6 | S. | 30 | SE. | 0 | 8 | 2 | 1 | 0 | 10 | 2 | 4 | 4 | 0 | 15 | 9 | 7 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| April | 11.7 | S. | 34 | S. | 0 | 7 | 4 | 0 | 5 | 11 | 1 | 2 | 0 | 0 | 14 | 9 | 7 | 9 | 6 | 0 | 1 | 0 | 0 | 1 | 0 | 7 | 0 |
| May | 9.5 | S. | 38 | W. | 0 | 7 | 1 | 7 | 2 | 9 | 2 | 1 | 1 | 1 | 11 | 17 | 3 | 10 | 9 | 0 | 2 | 1 | 0 | 2 | 0 | 10 | 0 |
| June | 7.6 | S. | 28 | SW. | 0 | 4 | 3 | 1 | 5 | 7 | 7 | 2 | 0 | 1 | 20 | 8 | 2 | 7 | 6 | 0 | 1 | 0 | 0 | 26 | 0 | 6 | 0 |
| July | 9.9 | S. | 42 | E. | 2 | 1 | 0 | 3 | 3 | 19 | 5 | 0 | 0 | 0 | 23 | 7 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 30 | 0 | 2 | 0 |
| August | 6.8 | S. | 46 | NW. | 1 | 3 | 2 | 4 | 1 | 9 | 8 | 0 | 3 | 1 | 21 | 8 | 2 | 6 | 5 | 0 | 1 | 0 | 0 | 28 | 0 | 8 | 0 |
| September | 7.3 | S. | 20 | N. | 0 | 10 | 0 | 0 | 1 | 10 | 5 | 2 | 2 | 0 | 26 | 3 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 19 | 0 | 4 | 0 |
| October | 7.5 | S. | 30 | N. | 0 | 5 | 0 | 2 | 3 | 11 | 3 | 3 | 2 | 2 | 24 | 4 | 3 | 5 | 4 | 0 | 0 | 4 | 0 | 3 | 0 | 2 | 0 |
| November | 10.2 | S. | 35 | NW. | 0 | 8 | 1 | 1 | 5 | 12 | 1 | 0 | 1 | 1 | 13 | 11 | 6 | 9 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| December | 9.1 | N. | 34 | NW. | 0 | 14 | 2 | 1 | 0 | 6 | 2 | 1 | 4 | 1 | 17 | 4 | 10 | 9 | 7 | 0 | 0 | 1 | 2 | 0 | 16 | 1 | 0 |
| Year | 9.3 | S. | 46 | NW. | 4 | 83 | 17 | 22 | 31 | 126 | 36 | 17 | 26 | 7 | 210 | 97 | 58 | 73 | 55 | 0 | 6 | 7 | 3 | 109 | 30 | 49 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

THOMASVILLE, GA.

[$\phi$=30° 48′ N.; $\lambda$=83° 58′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | Extremes. | | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 29.871 | 30.105 | 29.360 | 48.7 | 57.2 | 68.1 | 45.9 | 57.0 | 82 | 19 | 45 | 47 | 89 | 71 | 0.230 | 0.348 | 0.51 | 0.23 | 4.0 | 3.4 | 4.8 |
| February | 29.835 | 30.239 | 29.497 | 45.7 | 56.1 | 68.4 | 42.2 | 55.3 | 80 | 21 | 40 | 42 | 82 | 60 | .285 | .293 | 2.39 | 1.01 | 3.8 | 4.2 | 3.6 |
| March | 29.672 | 29.921 | 29.304 | 54.2 | 61.5 | 73.5 | 49.2 | 61.4 | 84 | 36 | 48 | 48 | 82 | 64 | .366 | .361 | 3.13 | 1.14 | 4.9 | 4.3 | 4.4 |
| April | 29.791 | 30.101 | 29.489 | 61.7 | 66.8 | 78.0 | 55.6 | 66.8 | 88 | 37 | 56 | 57 | 83 | 74 | .471 | .490 | 4.72 | 1.06 | 5.4 | 4.2 | 4.3 |
| May | 29.671 | 29.990 | 29.391 | 68.1 | 73.7 | 85.2 | 60.8 | 73.0 | 95 | 49 | 66 | 66 | 78 | 65 | .548 | .539 | 2.03 | .83 | 5.1 | 5.0 | 3.5 |
| June | 29.714 | 29.892 | 29.498 | 76.7 | 79.9 | 91.4 | 69.8 | 80.6 | 97 | 63 | 70 | 70 | 81 | 73 | .738 | .724 | 11.10 | 4.49 | 5.2 | 6.7 | 4.4 |
| July | 29.708 | 29.906 | 29.408 | 76.6 | 78.3 | 89.2 | 71.5 | 80.4 | 95 | 65 | 73 | 72 | 88 | 83 | .802 | .801 | 6.47 | 1.69 | 6.0 | 6.4 | 5.8 |
| August | 29.692 | 29.890 | 29.340 | 77.3 | 79.0 | 91.6 | 71.5 | 81.6 | 99 | 68 | 73 | 73 | 86 | 81 | .812 | .804 | 6.96 | 1.90 | 5.2 | 6.1 | 5.0 |
| September | 29.714 | 29.833 | 29.607 | 71.1 | 74.1 | 87.1 | 66.5 | 76.8 | 95 | 45 | 66 | 68 | 85 | 81 | .668 | .694 | 6.07 | 3.63 | 5.9 | 5.2 | 5.1 |
| October | 29.822 | 30.006 | 29.417 | 58.8 | 65.5 | 80.7 | 53.1 | 66.9 | 92 | 36 | 53 | 57 | 84 | 74 | .430 | .476 | .84 | .50 | 2.7 | 2.0 | 2.9 |
| November | 29.916 | 30.200 | 29.431 | 52.6 | 60.8 | 76.2 | 48.8 | 62.5 | 86 | 28 | 49 | 50 | 89 | 70 | .376 | .381 | 1.39 | 1.36 | 3.4 | .8 | 4.1 |
| December | 29.798 | 30.135 | 29.518 | 41.0 | 48.3 | 58.6 | 36.4 | 47.5 | 77 | 17 | 36 | 40 | 82 | 73 | .247 | .272 | 4.19 | 1.23 | 3.4 | 3.4 | 3.9 |
| Year | 29.767 | 30.239 | 29.304 | 61.0 | 66.8 | 79.0 | 55.9 | 67.5 | 99 | 17 | 56 | 57 | 84 | 72 | .506 | .515 | 49.80 | 4.49 | 4.6 | 4.3 | 4.3 |

TOLEDO, OHIO.

[$\phi$=41° 40′ N.; $\lambda$=83° 34′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.438 | 29.906 | 28.489 | 28.6 | 31.4 | 37.7 | 23.4 | 30.6 | 66 | 3 | 24 | 26 | 82 | 80 | 0.148 | 0.156 | 3.01 | 0.68 | 7.9 | 6.9 | 6.5 |
| February | 29.238 | 29.913 | 28.480 | 27.4 | 33.5 | 38.8 | 24.0 | 31.4 | 55 | 0 | 23 | 27 | 84 | 76 | .130 | .155 | 5.97 | 1.83 | 7.4 | 6.4 | 6.8 |
| March | 29.228 | 29.749 | 28.675 | 31.3 | 36.2 | 42.7 | 28.4 | 35.6 | 62 | 20 | 26 | 28 | 79 | 70 | .140 | .154 | 2.13 | .84 | 6.1 | 5.6 | 5.5 |
| April | 29.304 | 29.797 | 28.706 | 42.8 | 47.2 | 55.8 | 36.2 | 46.0 | 79 | 21 | 36 | 36 | 76 | 65 | .221 | .219 | 3.19 | 1.63 | 6.5 | 5.5 | 5.9 |
| May | 29.251 | 29.600 | 28.932 | 54.4 | 59.1 | 65.7 | 49.2 | 57.4 | 83 | 31 | 46 | 48 | 75 | 68 | .329 | .355 | 4.76 | 1.26 | 4.9 | 5.5 | 4.4 |
| June | 29.322 | 29.580 | 29.007 | 65.4 | 71.0 | 76.9 | 60.6 | 68.8 | 88 | 48 | 59 | 60 | 80 | 70 | .513 | .536 | 4.31 | .83 | 5.5 | 5.3 | 4.4 |
| July | 29.300 | 29.679 | 28.963 | 68.7 | 74.1 | 80.6 | 62.5 | 71.6 | 90 | 54 | 60 | 59 | 74 | 61 | .529 | .519 | 3.67 | 1.72 | 3.6 | 4.7 | 3.4 |
| August | 29.364 | 29.668 | 29.001 | 67.6 | 74.7 | 81.6 | 63.6 | 72.6 | 92 | 51 | 60 | 61 | 76 | 64 | .520 | .548 | 1.55 | 1.13 | 3.2 | 3.4 | 2.6 |
| September | 29.437 | 29.753 | 29.046 | 57.5 | 64.0 | 71.0 | 53.5 | 62.2 | 90 | 41 | 51 | 52 | 80 | 68 | .393 | .416 | 2.61 | 1.03 | 4.0 | 4.0 | 3.8 |
| October | 29.415 | 29.940 | 28.905 | 42.7 | 50.4 | 56.5 | 40.5 | 48.5 | 75 | 29 | 37 | 38 | 79 | 63 | .225 | .240 | 1.83 | .86 | 4.3 | 3.7 | 3.9 |
| November | 29.470 | 29.874 | 28.889 | 43.9 | 47.1 | 54.7 | 39.0 | 46.8 | 72 | 26 | 38 | 39 | 81 | 76 | .245 | .254 | 4.34 | 2.44 | 7.4 | 4.5 | 5.7 |
| December | 29.299 | 29.709 | 28.812 | 22.4 | 25.0 | 30.6 | 18.1 | 24.4 | 62 | 0 | 18 | 20 | 84 | 78 | .110 | .113 | 3.05 | 1.09 | 7.8 | 7.6 | 7.0 |
| Year | 29.339 | 29.940 | 28.480 | 46.1 | 51.1 | 57.7 | 41.6 | 49.7 | 92 | 0 | 40 | 41 | 79 | 70 | .292 | .305 | 40.42 | 2.44 | 5.7 | 5.3 | 5.0 |

TONOPAH, NEV.

[$\phi$=38° 04′ N.; $\lambda$=117° 14′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 23.982 | 24.234 | 23.600 | 29.9 | 38.1 | 40.2 | 27.5 | 33.8 | 56 | 11 | 21 | 25 | 78 | 60 | 0.131 | 0.137 | 0.45 | 0.36 | 4.7 | 5.7 | 5.2 |
| February | 23.995 | 24.241 | 23.523 | 27.8 | 36.9 | 39.4 | 24.8 | 32.1 | 50 | 14 | 20 | 21 | 72 | 55 | .105 | .115 | .49 | .16 | 4.5 | 5.6 | 5.6 |
| March | 23.947 | 24.252 | 23.572 | 29.0 | 42.9 | 44.7 | 26.8 | 35.8 | 57 | 16 | 20 | 21 | 69 | 42 | .106 | .112 | .34 | .16 | 3.7 | 4.9 | 4.8 |
| April | 24.038 | 24.372 | 23.702 | 38.0 | 56.4 | 58.6 | 36.3 | 47.4 | 70 | 23 | 20 | 17 | 47 | 21 | .105 | .094 | .06 | .06 | 2.6 | 3.5 | 3.1 |
| May | 23.978 | 24.280 | 23.727 | 43.2 | 62.8 | 65.6 | 41.1 | 53.4 | 82 | 27 | 22 | 22 | 43 | 22 | .117 | .120 | .01 | .01 | 1.8 | 5.0 | 3.6 |
| June | 24.042 | 24.185 | 23.802 | 56.3 | 77.7 | 80.2 | 55.3 | 67.8 | 91 | 40 | 28 | 28 | 36 | 17 | .155 | .153 | .15 | .15 | 1.4 | 3.8 | 2.8 |
| July | 24.076 | 24.217 | 23.807 | 61.6 | 84.2 | 86.8 | 59.9 | 73.4 | 94 | 40 | 30 | 29 | 32 | 15 | .179 | .173 | .20 | .19 | 1.0 | 2.4 | 1.9 |
| August | 24.106 | 24.220 | 23.962 | 63.8 | 81.8 | 84.6 | 62.1 | 73.4 | 90 | 56 | 41 | 36 | 47 | 23 | .275 | .232 | .91 | .37 | 2.9 | 3.8 | 3.6 |
| September | 24.137 | 24.362 | 23.937 | 54.1 | 69.9 | 72.1 | 51.9 | 62.0 | 81 | 39 | 32 | 30 | 46 | 25 | .191 | .174 | 2.07 | 1.79 | 2.0 | 2.9 | 3.1 |
| October | 24.133 | 24.402 | 23.827 | 46.7 | 58.9 | 61.8 | 44.4 | 53.1 | 73 | 26 | 26 | 25 | 47 | 30 | .141 | .138 | .26 | .20 | 1.9 | 3.5 | 3.4 |
| November | 24.081 | 24.333 | 23.702 | 36.4 | 41.7 | 46.5 | 32.5 | 39.5 | 66 | 16 | 23 | 25 | 60 | 56 | .122 | .136 | 2.39 | .99 | 3.8 | 4.8 | 4.5 |
| December | 24.014 | 24.352 | 23.641 | 21.5 | 26.7 | 29.6 | 18.9 | 24.2 | 48 | 9 | 18 | 20 | 86 | 74 | .099 | .106 | .16 | .04 | 4.1 | 5.9 | 5.1 |
| Year | 24.044 | 24.402 | 23.500 | 42.4 | 56.5 | 59.2 | 40.1 | 49.7 | 94 | 9 | 25 | 25 | 55 | 37 | .144 | .141 | 7.49 | 1.79 | 2.8 | 4.3 | 3.9 |

TOPEKA, KANS.

[$\phi$=39° 3′ N.; $\lambda$=95° 41′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | | | | | 30.7 | 37.0 | 19.5 | 28.2 | 66 | −10 | | | | | | | 0.44 | 0.14 | | | 6.6 |
| February | | | | | 39.6 | 47.5 | 23.8 | 35.6 | 68 | 2 | | | | | | | 1.06 | .50 | | | 4.2 |
| March | | | | | 45.8 | 51.8 | 31.2 | 41.5 | 80 | 20 | | | | | | | 2.01 | .91 | | | 4.0 |
| April | | | | | 55.5 | 64.4 | 39.8 | 52.1 | 86 | 30 | | | | | | | 1.61 | .69 | | | 3.9 |
| May | | | | | 66.9 | 73.6 | 52.7 | 63.2 | 96 | 28 | | | | | | | 4.93 | 2.48 | | | 4.8 |
| June | | | | | 77.4 | 83.3 | 64.3 | 73.8 | 93 | 37 | | | | | | | 3.56 | 1.09 | | | 4.3 |
| July | | | | | 81.8 | 87.7 | 68.3 | 78.0 | 97 | 60 | | | | | | | 11.60 | 5.11 | | | 3.3 |
| August | | | | | 83.6 | 90.6 | 68.9 | 79.8 | 102 | 52 | | | | | | | .77 | .61 | | | 2.2 |
| September | | | | | 71.9 | 80.0 | 57.7 | 68.8 | 97 | 43 | | | | | | | 11.48 | 8.08 | | | 3.7 |
| October | | | | | 59.4 | 68.5 | 44.8 | 56.6 | 91 | 27 | | | | | | | 1.35 | .78 | | | 3.6 |
| November | | | | | 51.3 | 59.1 | 40.4 | 49.8 | 82 | 22 | | | | | | | 5.98 | 3.83 | | | 5.7 |
| December | | | | | 23.2 | 29.4 | 13.0 | 21.2 | 53 | −1 | | | | | | | 2.17 | .71 | | | 5.1 |
| Year | | | | | 57.3 | 64.4 | 43.7 | 54.0 | 102 | −10 | | | | | | | 46.96 | 8.08 | | | 4.3 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

THOMASVILLE, GA.

[H=273 ft.; $h_1$=8 ft.; $h_r$=4 ft.; $h_a$=57 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Aurora. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 5.3 | E. | 30 | NW. | 0 | 6 | 14 | 11 | 6 | 5 | 1 | 8 | 11 | 0 | 13 | 9 | 9 | 5 | 3 | 0 | 0 | 9 | 0 | 0 | 2 | 1 | 0 |
| February | 6.9 | S. | 30 | S. | 0 | 2 | 3 | 3 | 10 | 14 | 5 | 6 | 13 | 0 | 14 | 9 | 5 | 7 | 4 | 0 | 0 | 3 | 0 | 0 | 4 | 3 | 0 |
| March | 6.9 | S. | 26 | SW. | 0 | 9 | 5 | 7 | 4 | 13 | 10 | 7 | 7 | 0 | 12 | 11 | 8 | 12 | 7 | 0 | 0 | 4 | 0 | 0 | 0 | 5 | 0 |
| April | 6.0 | E. | 24 | SW. | 0 | 7 | 8 | 13 | 6 | 11 | 5 | 5 | 5 | 0 | 16 | 3 | 11 | 12 | 11 | 0 | 1 | 2 | 0 | 0 | 0 | 4 | 0 |
| May | 5.3 | SW. | 34 | S. | 0 | 6 | 6 | 7 | 10 | 7 | 11 | 8 | 7 | 0 | 17 | 10 | 4 | 8 | 8 | 0 | 0 | 1 | 0 | 8 | 0 | 9 | 0 |
| June | 5.0 | E. | 28 | SW. | 0 | 4 | 9 | 11 | 11 | 5 | 10 | 7 | 3 | 0 | 13 | 11 | 6 | 11 | 9 | 0 | 0 | 0 | 0 | 25 | 0 | 14 | 0 |
| July | 4.7 | SW. | 21 | SW. | 0 | 1 | 4 | 7 | 13 | 13 | 11 | 8 | 5 | 0 | 5 | 17 | 9 | 17 | 14 | 0 | 0 | 0 | 0 | 18 | 0 | 17 | 0 |
| August | 4.7 | E. | 20 | NW. | 0 | 4 | 12 | 15 | 7 | 7 | 9 | 4 | 4 | 0 | 9 | 15 | 7 | 14 | 11 | 0 | 0 | 0 | 0 | 24 | 0 | 16 | 0 |
| September | 4.7 | E. | 24 | NW. | 0 | 14 | 12 | 17 | 5 | 1 | 3 | 4 | 3 | 1 | 8 | 16 | 6 | 12 | 8 | 0 | 0 | 1 | 0 | 12 | 0 | 11 | 0 |
| October | 4.7 | E. | 23 | E. | 0 | 7 | 14 | 17 | 3 | 6 | 4 | 3 | 8 | 0 | 20 | 8 | 3 | 4 | 3 | 0 | 0 | 5 | 0 | 1 | 0 | 2 | 0 |
| November | 4.8 | E. | 21 | SW. | 0 | 7 | 12 | 16 | 4 | 6 | 3 | 4 | 8 | 0 | 14 | 10 | 6 | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 1 | 1 | 0 |
| December | 5.7 | NW. | 25 | NW. | 0 | 8 | 6 | 9 | 6 | 6 | 6 | 6 | 15 | 0 | 18 | 5 | 8 | 11 | 10 | 0 | 0 | 3 | 0 | 0 | 13 | 0 | 0 |
| Year | 5.4 | E. | 34 | S. | 0 | 75 | 105 | 133 | 85 | 94 | 78 | 70 | 89 | 1 | 159 | 124 | 82 | 115 | 89 | 0 | 1 | 31 | 0 | 88 | 20 | 83 | 0 |

TOLEDO, OHIO.

[H=628 ft.; $h_1$=207 ft.; $h_r$=201 ft.; $h_a$=246 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 15.7 | SW. | 43 | NE. | 1 | 4 | 2 | 4 | 3 | 9 | 20 | 6 | 14 | 0 | 7 | 8 | 16 | 13 | 11 | 7 | 0 | 1 | 10 | 0 | 22 | 1 | 0 |
| February | 17.8 | SW. | 57 | SW. | 6 | 6 | 6 | 2 | 4 | 7 | 19 | 7 | 5 | 0 | 7 | 7 | 14 | 13 | 10 | 10 | 0 | 1 | 9 | 0 | 25 | 0 | 0 |
| March | 16.7 | W. | 58 | SW. | 5 | 3 | 7 | 6 | 6 | 4 | 10 | 12 | 14 | 0 | 11 | 7 | 13 | 11 | 9 | 5 | 0 | 0 | 3 | 0 | 25 | 0 | 0 |
| April | 19.4 | SW. | 70 | SW. | 13 | 3 | 7 | 9 | 3 | 7 | 15 | 10 | 6 | 0 | 9 | 12 | 9 | 14 | 8 | 3 | 1 | 0 | 0 | 0 | 8 | 5 | 0 |
| May | 16.1 | SW. | 50 | SW. | 7 | 6 | 8 | 9 | 3 | 7 | 18 | 4 | 7 | 0 | 11 | 15 | 5 | 15 | 11 | 2 | 0 | 0 | 0 | 0 | 1 | 8 | 0 |
| June | 11.2 | SW. | 43 | SW. | 1 | 8 | 9 | 7 | 3 | 5 | 14 | 6 | 8 | 0 | 10 | 15 | 5 | 13 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 |
| July | 12.4 | SW. | 56 | S. | 4 | 8 | 4 | 4 | 10 | 5 | 15 | 8 | 8 | 0 | 19 | 11 | 1 | 11 | 10 | 0 | 1 | 0 | 0 | 1 | 0 | 9 | 0 |
| August | 11.5 | NW. | 35 | W. | 0 | 8 | 10 | 8 | 2 | 5 | 10 | 9 | 10 | 0 | 21 | 8 | 2 | 6 | 6 | 0 | 0 | 0 | 0 | 3 | 0 | 7 | 0 |
| September | 13.2 | SW. | 50 | S. | 2 | 11 | 4 | 7 | 5 | 6 | 9 | 11 | 7 | 0 | 17 | 9 | 4 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| October | 15.5 | SW. | 48 | SW. | 3 | 6 | 0 | 11 | 6 | 3 | 20 | 6 | 10 | 0 | 15 | 12 | 4 | 6 | 5 | 1 | 0 | 2 | 0 | 0 | 4 | 0 | 1 |
| November | 16.6 | SW. | 60 | W. | 5 | 6 | 7 | 8 | 4 | 11 | 12 | 8 | 4 | 0 | 9 | 10 | 11 | 13 | 8 | 1 | 0 | 0 | 1 | 0 | 5 | 4 | 0 |
| December | 18.2 | SW. | 55 | SW. | 8 | 0 | 4 | 6 | 6 | 4 | 30 | 7 | 5 | 0 | 6 | 6 | 19 | 13 | 10 | 10 | 0 | 2 | 20 | 0 | 27 | 0 | 0 |
| Year | 15.4 | SW. | 70 | SW. | 55 | 69 | 68 | 81 | 55 | 73 | 192 | 94 | 98 | 0 | 142 | 120 | 103 | 135 | 104 | 39 | 2 | 6 | 43 | 4 | 117 | 47 | 1 |

TONOPAH, NEV.

[H=6,090 ft.; $h_1$=12 ft.; $h_r$=9 ft.; $h_a$=20 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 12.4 | SE. | 40 | SE. | 1 | 0 | 1 | 0 | 47 | 2 | 0 | 8 | 4 | 0 | 7 | 19 | 5 | 4 | 3 | 4 | 0 | 1 | 8 | 0 | 22 | 0 | 0 |
| February | 11.8 | SE. | 43 | NW. | 2 | 0 | 0 | 0 | 28 | 2 | 1 | 13 | 12 | 0 | 7 | 13 | 8 | 5 | 5 | 5 | 0 | 0 | 5 | 0 | 25 | 0 | 0 |
| March | 11.7 | SE. | 37 | NW. | 0 | 2 | 0 | 2 | 25 | 2 | 1 | 11 | 18 | 1 | 10 | 17 | 4 | 6 | 4 | 6 | 0 | 0 | 0 | 0 | 24 | 0 | 0 |
| April | 13.2 | W. | 54 | NW. | 4 | 1 | 0 | 1 | 10 | 1 | 3 | 24 | 20 | 0 | 14 | 15 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 |
| May | 10.2 | W. | 47 | NW. | 1 | 2 | 1 | 2 | 4 | 1 | 3 | 28 | 21 | 0 | 12 | 19 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 7 | 1 | 0 |
| June | 9.2 | W. | 42 | SE. | 1 | 3 | 0 | 0 | 15 | 3 | 2 | 24 | 13 | 0 | 15 | 14 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| July | 8.8 | SE. | 36 | NW. | 0 | 1 | 1 | 1 | 28 | 2 | 1 | 21 | 7 | 0 | 26 | 5 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 10 | 0 | 1 | 0 |
| August | 8.5 | SE. | 24 | SE. | 0 | 1 | 0 | 4 | 30 | 9 | 4 | 3 | 5 | 0 | 15 | 13 | 3 | 7 | 5 | 0 | 0 | 0 | 0 | 3 | 0 | 5 | 0 |
| September | 9.3 | SE. | 35 | NW. | 0 | 0 | 1 | 1 | 32 | 5 | 1 | 11 | 9 | 0 | 17 | 12 | 1 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| October | 7.3 | SE. | 39 | NW. | 0 | 0 | 1 | 1 | 29 | 2 | 4 | 17 | 8 | 0 | 20 | 9 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 |
| November | 7.8 | SE. | 35 | SE. | 0 | 2 | 0 | 0 | 32 | 6 | 2 | 10 | 7 | 1 | 12 | 12 | 6 | 7 | 6 | 7 | 0 | 0 | 6 | 0 | 13 | 0 | 0 |
| December | 8.9 | SE. | 40 | NW. | 1 | 0 | 0 | 1 | 25 | 4 | 3 | 16 | 13 | 0 | 11 | 12 | 8 | 7 | 2 | 6 | 0 | 1 | 23 | 0 | 30 | 0 | 0 |
| Year | 9.9 | SE. | 54 | NW. | 10 | 12 | 5 | 13 | 311 | 39 | 25 | 186 | 137 | 2 | 166 | 160 | 39 | 50 | 33 | 29 | 0 | 2 | 42 | 15 | 133 | 8 | 0 |

TOPEKA, KANS.

[H=983 ft.; $h_1$=85 ft.; $h_r$=76 ft.; $h_a$=101 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 10.7 | S. | 58 | NW. | 2 | 6 | 5 | 1 | 5 | 7 | 2 | 1 | 4 | 0 | 7 | 10 | 14 | 7 | 3 | 4 | 1 | 5 | 15 | 0 | 24 | 1 | 0 |
| February | 13.0 | S. | 47 | W. | 1 | 4 | 0 | 2 | 1 | 8 | 4 | 3 | 6 | 0 | 15 | 4 | 9 | 7 | 4 | 4 | 1 | 0 | 5 | 0 | 24 | 1 | 0 |
| March | 10.1 | NW. | 46 | SW. | 1 | 8 | 3 | 3 | 2 | 4 | 1 | 3 | 7 | 0 | 13 | 10 | 8 | 7 | 7 | 3 | 1 | 0 | 4 | 0 | 15 | 3 | 0 |
| April | 13.8 | S. | 54 | S. | 3 | 5 | 3 | 4 | 2 | 9 | 0 | 0 | 7 | 0 | 15 | 11 | 4 | 6 | 5 | 0 | 1 | 2 | 0 | 0 | 2 | 5 | 0 |
| May | 11.1 | S. | 39 | S. | 0 | 3 | 3 | 3 | 9 | 6 | 1 | 3 | 3 | 0 | 12 | 12 | 7 | 10 | 10 | 0 | 2 | 0 | 0 | 1 | 1 | 11 | 0 |
| June | 8.5 | S. | 38 | SW. | 0 | 3 | 4 | 2 | 8 | 8 | 1 | 3 | 1 | 0 | 11 | 16 | 3 | 13 | 10 | 0 | 2 | 2 | 0 | 3 | 0 | 11 | 0 |
| July | 7.7 | SE. | 43 | NW. | 2 | 1 | 5 | 5 | 6 | 8 | 4 | 0 | 2 | 0 | 18 | 9 | 4 | 13 | 11 | 0 | 1 | 2 | 0 | 11 | 0 | 13 | 0 |
| August | 7.7 | SE. | 46 | SW. | 1 | 2 | 4 | 1 | 17 | 5 | 0 | 1 | 1 | 0 | 21 | 8 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 18 | 0 | 2 | 0 |
| September | 7.4 | E. | 39 | N. | 0 | 2 | 9 | 8 | 5 | 4 | 1 | 0 | 1 | 0 | 15 | 11 | 4 | 13 | 9 | 0 | 1 | 1 | 0 | 4 | 0 | 5 | 0 |
| October | 10.1 | S. | 35 | S. | 0 | 4 | 2 | 4 | 3 | 8 | 3 | 2 | 5 | 0 | 17 | 6 | 8 | 5 | 4 | 0 | 0 | 0 | 0 | 2 | 3 | 2 | 0 |
| November | 11.4 | S. | 44 | SW. | 1 | 3 | 5 | 3 | 3 | 11 | 1 | 1 | 3 | 0 | 9 | 7 | 14 | 9 | 7 | 0 | 0 | 3 | 0 | 0 | 7 | 3 | 0 |
| December | 10.0 | NW. | 26 | NW. | 0 | 1 | 0 | 3 | 1 | 3 | 5 | 3 | 15 | 0 | 14 | 4 | 13 | 8 | 6 | 4 | 0 | 0 | 15 | 0 | 29 | 1 | 0 |
| Year | 10.1 | S. | 58 | NW. | 11 | 42 | 43 | 39 | 62 | 81 | 23 | 20 | 55 | 0 | 167 | 108 | 90 | 101 | 79 | 15 | 8 | 15 | 39 | 39 | 105 | 58 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

VALENTINE, NEBR.

[$\phi$=42° 50′ N.; $\lambda$=100° 32′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | Cloudiness. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | | | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | | |
| January | 27.289 | 27.797 | 26.714 | 13.2 | 22.0 | 30.9 | 8.2 | 19.6 | 58 | −23 | 9 | 14 | 85 | 74 | 0.082 | 0.099 | 0.75 | 0.34 | | 3.9 | 4.7 | 4.1 |
| February | 27.184 | 27.776 | 26.750 | 16.4 | 28.0 | 36.2 | 11.4 | 23.8 | 66 | −17 | 12 | 18 | 82 | 68 | .082 | .111 | .86 | .52 | | 4.4 | 4.7 | 4.5 |
| March | 27.254 | 27.682 | 26.898 | 23.4 | 36.5 | 41.6 | 19.6 | 30.6 | 64 | −10 | 20 | 24 | 87 | 62 | .115 | .130 | 1.14 | 1.02 | | 4.8 | 4.4 | 4.3 |
| April | 27.216 | 27.701 | 26.763 | 30.5 | 47.4 | 53.3 | 26.8 | 40.0 | 80 | 13 | 25 | 24 | 80 | 43 | .136 | .130 | 1.35 | .62 | | 5.0 | 5.6 | 5.0 |
| May | 27.142 | 27.478 | 26.724 | 45.0 | 62.2 | 66.8 | 41.2 | 54.0 | 90 | 17 | 39 | 36 | 80 | 43 | .251 | .222 | 2.91 | .86 | | 4.4 | 5.0 | 4.6 |
| June | 27.272 | 27.477 | 27.038 | 59.2 | 74.5 | 78.7 | 55.7 | 67.2 | 98 | 44 | 55 | 55 | 87 | 54 | .438 | .437 | 1.64 | .52 | | 4.7 | 4.1 | 4.1 |
| July | 27.276 | 27.589 | 27.009 | 63.9 | 81.0 | 86.0 | 60.9 | 73.4 | 99 | 49 | 58 | 56 | 82 | 46 | .496 | .461 | 1.62 | .80 | | 2.9 | 2.8 | 3.2 |
| August | 27.294 | 27.629 | 27.037 | 65.1 | 83.1 | 89.4 | 62.6 | 71.0 | 99 | 52 | 60 | 57 | 84 | 43 | .522 | .476 | 4.40 | 3.36 | | 2.3 | 3.3 | 2.9 |
| September | 27.353 | 27.659 | 26.992 | 50.8 | 69.2 | 75.2 | 48.2 | 61.7 | 90 | 34 | 46 | 45 | 83 | 46 | .319 | .316 | 3.18 | 2.92 | | 2.2 | 3.5 | 3.1 |
| October | 27.312 | 27.812 | 26.988 | 39.3 | 53.6 | 62.9 | 35.2 | 49.0 | 88 | 10 | 30 | 30 | 70 | 44 | .168 | .174 | .02 | .02 | | 3.7 | 3.6 | 3.5 |
| November | 27.300 | 27.802 | 26.738 | 29.3 | 39.1 | 47.7 | 24.2 | 36.0 | 78 | 1 | 23 | 27 | 79 | 68 | .131 | .154 | 1.63 | .73 | | 4.7 | 4.8 | 5.0 |
| December | 27.293 | 27.526 | 26.914 | 9.4 | 13.2 | 20.7 | 3.9 | 12.3 | 46 | −16 | 7 | 10 | 89 | 85 | .069 | .073 | 1.14 | .54 | | 5.4 | 5.4 | 5.2 |
| Year | 27.266 | 27.812 | 26.714 | 37.1 | 50.8 | 57.4 | 33.2 | 44.9 | 99 | −23 | 32 | 33 | 82 | 56 | .235 | .232 | 20.64 | 3.36 | | 4.0 | 4.2 | 4.1 |

VICKSBURG, MISS.

[$\phi$=32° 22′ N.; $\lambda$=90° 53′ W.]

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.909 | 30.286 | 29.404 | 46.6 | 53.8 | 60.1 | 43.2 | 51.6 | 77 | 20 | 41 | 42 | 82 | 66 | 0.296 | 0.297 | 1.24 | 0.47 | | 6.3 | 4.2 | 6.2 |
| February | 29.785 | 30.340 | 29.331 | 47.7 | 57.0 | 63.5 | 43.5 | 53.5 | 81 | 23 | 39 | 39 | 72 | 55 | .278 | .278 | 7.20 | 2.04 | | 5.7 | 4.5 | 5.5 |
| March | 29.675 | 30.044 | 29.196 | 52.9 | 62.9 | 68.1 | 51.6 | 59.8 | 81 | 36 | 45 | 44 | 75 | 54 | .316 | .317 | 5.43 | 2.10 | | 6.1 | 6.2 | 5.3 |
| April | 29.757 | 30.136 | 29.367 | 59.4 | 68.8 | 74.6 | 56.6 | 65.6 | 85 | 44 | 51 | 53 | 76 | 60 | .407 | .433 | 6.25 | 2.25 | | 4.8 | 5.2 | 4.8 |
| May | 29.656 | 30.040 | 29.400 | 64.6 | 73.2 | 78.6 | 60.9 | 69.8 | 87 | 43 | 60 | 60 | 85 | 66 | .531 | .551 | 11.82 | 4.92 | | 5.5 | 4.7 | 5.2 |
| June | 29.711 | 29.872 | 29.476 | 74.3 | 80.6 | 87.2 | 70.4 | 78.8 | 95 | 65 | 70 | 70 | 86 | 73 | .725 | .748 | 5.06 | 1.04 | | 4.8 | 5.2 | 5.2 |
| July | 29.708 | 29.931 | 29.503 | 76.8 | 84.3 | 90.7 | 74.3 | 82.5 | 97 | 68 | 72 | 72 | 85 | 67 | .787 | .775 | 1.97 | 1.13 | | 5.1 | 4.7 | 5.1 |
| August | 29.700 | 29.876 | 29.391 | 75.9 | 83.7 | 91.3 | 73.6 | 82.4 | 99 | 70 | 70 | 72 | 84 | 69 | .746 | .779 | 3.20 | 1.13 | | 4.3 | 4.4 | 4.3 |
| September | 29.742 | 29.919 | 29.184 | 68.2 | 77.5 | 86.0 | 65.9 | 76.0 | 95 | 46 | 64 | 65 | 86 | 66 | .622 | .639 | 4.96 | 3.71 | | 2.7 | 3.3 | 3.4 |
| October | 29.837 | 30.028 | 29.610 | 59.0 | 71.0 | 78.5 | 57.5 | 68.0 | 91 | 41 | 52 | 54 | 80 | 55 | .416 | .430 | 1.89 | 1.82 | | 2.3 | .8 | 2.1 |
| November | 29.907 | 30.224 | 29.547 | 54.9 | 66.0 | 74.2 | 53.4 | 63.8 | 81 | 35 | 49 | 49 | 81 | 57 | .376 | .375 | 1.75 | .81 | | 4.3 | 2.6 | 3.8 |
| December | 29.844 | 30.197 | 29.483 | 37.4 | 46.3 | 52.5 | 34.5 | 43.5 | 78 | 21 | 31 | 34 | 77 | 65 | .189 | .217 | 4.18 | 1.42 | | 4.6 | 3.8 | 5.6 |
| Year | 29.769 | 30.340 | 29.184 | 59.8 | 68.8 | 75.4 | 57.1 | 66.3 | 99 | 20 | 54 | 54 | 81 | 63 | .474 | .487 | 54.95 | 4.92 | | 4.7 | 4.1 | 4.7 |

WALLA WALLA, WASH.

[$\phi$=46° 02′ N.; $\lambda$=118° 20′ W.]

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 28.874 | 29.634 | 28.098 | 24.7 | 27.0 | 33.7 | 18.7 | 26.2 | 62 | −12 | 20 | 21 | 82 | 80 | 0.129 | 0.132 | 2.27 | 0.49 | | 7.2 | 8.2 | 7.6 |
| February | 28.850 | 29.231 | 28.429 | 39.8 | 45.7 | 49.6 | 36.8 | 43.2 | 65 | 24 | 31 | 31 | 73 | 69 | .174 | .177 | 2.43 | .93 | | 8.4 | 7.8 | 7.7 |
| March | 28.924 | 29.242 | 28.546 | 40.3 | 54.9 | 58.0 | 38.0 | 48.0 | 67 | 29 | 34 | 39 | 80 | 58 | .200 | .240 | 2.02 | .66 | | 4.4 | 5.0 | 4.3 |
| April | 29.030 | 29.479 | 28.688 | 42.5 | 58.2 | 60.9 | 40.8 | 50.8 | 71 | 33 | 32 | 29 | 66 | 37 | .180 | .165 | 1.09 | .92 | | 6.1 | 4.4 | 4.9 |
| May | 28.918 | 29.196 | 28.593 | 48.7 | 66.9 | 68.6 | 47.0 | 57.8 | 87 | 38 | 36 | 32 | 62 | 29 | .212 | .189 | .80 | .47 | | 5.5 | 4.2 | 4.5 |
| June | 28.917 | 29.136 | 28.588 | 56.4 | 76.8 | 78.5 | 54.6 | 66.6 | 96 | 47 | 43 | 39 | 62 | 28 | .280 | .247 | .69 | .29 | | 4.8 | 4.6 | 4.6 |
| July | 28.895 | 29.114 | 28.515 | 59.7 | 81.9 | 83.6 | 58.2 | 70.9 | 100 | 48 | 43 | 39 | 56 | 26 | .281 | .245 | 1.21 | .78 | | 2.6 | 2.9 | 3.1 |
| August | 28.894 | 29.158 | 28.639 | 59.9 | 85.1 | 86.3 | 57.3 | 71.8 | 99 | 48 | 40 | 34 | 48 | 17 | .248 | .198 | .01 | .01 | | .8 | .9 | 1.4 |
| September | 28.943 | 29.214 | 28.566 | 56.9 | 75.3 | 77.6 | 54.6 | 66.1 | 93 | 41 | 44 | 44 | 63 | 34 | .292 | .294 | .61 | .26 | | 4.5 | 4.2 | 4.5 |
| October | 28.989 | 29.275 | 28.542 | 47.9 | 61.0 | 64.6 | 44.7 | 54.6 | 80 | 36 | 38 | 40 | 69 | 47 | .235 | .251 | 1.55 | .63 | | 4.0 | 5.4 | 5.0 |
| November | 28.933 | 29.399 | 28.431 | 43.1 | 46.4 | 51.8 | 38.5 | 45.2 | 67 | 16 | 35 | 37 | 74 | 70 | .212 | .226 | 3.98 | .85 | | 7.5 | 7.7 | 8.0 |
| December | 29.108 | 29.621 | 28.362 | 27.0 | 29.2 | 31.9 | 24.3 | 28.1 | 55 | 8 | 23 | 24 | 86 | 83 | .124 | .133 | 2.07 | .52 | | 8.8 | 8.9 | 8.9 |
| Year | 28.940 | 29.634 | 28.098 | 45.6 | 59.0 | 62.1 | 42.8 | 52.4 | 100 | −12 | 35 | 34 | 68 | 47 | .214 | .208 | 18.73 | .93 | | 5.4 | 5.4 | 5.4 |

WASHINGTON, D. C.

[$\phi$=38° 54′ N.; $\lambda$=77° 03′ W.]

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 30.040 | 30.534 | 29.117 | 32.5 | 37.1 | 43.1 | 28.8 | 36.0 | 61 | 13 | 26 | 29 | 78 | 73 | 0.155 | 0.169 | 2.84 | 1.16 | | 6.8 | 5.7 | 6.7 |
| February | 29.855 | 30.360 | 29.187 | 38.3 | 44.3 | 52.4 | 33.5 | 43.0 | 70 | 17 | 32 | 32 | 79 | 63 | .201 | .192 | 3.11 | .81 | | 6.1 | 4.9 | 5.4 |
| March | 29.767 | 30.371 | 28.804 | 37.9 | 44.0 | 50.7 | 33.5 | 42.1 | 75 | 26 | 30 | 28 | 72 | 55 | .175 | .162 | 4.76 | 2.80 | | 6.0 | 4.3 | 5.8 |
| April | 29.945 | 30.573 | 29.549 | 48.8 | 57.0 | 64.8 | 43.7 | 54.2 | 88 | 26 | 37 | 39 | 66 | 55 | .238 | .261 | 2.69 | 1.48 | | 4.7 | 5.2 | 5.5 |
| May | 29.815 | 30.160 | 29.376 | 60.3 | 66.7 | 75.2 | 53.5 | 64.4 | 90 | 36 | 49 | 49 | 68 | 56 | .360 | .372 | 3.77 | 1.80 | | 4.9 | 4.1 | 4.8 |
| June | 29.868 | 30.141 | 29.542 | 70.2 | 75.0 | 82.3 | 64.6 | 73.4 | 94 | 51 | 64 | 65 | 80 | 72 | .600 | .629 | 3.82 | .94 | | 5.5 | 5.6 | 5.4 |
| July | 29.839 | 30.139 | 29.491 | 71.1 | 76.3 | 85.1 | 64.3 | 74.7 | 96 | 53 | 60 | 60 | 70 | 59 | .542 | .545 | 1.80 | .61 | | 3.1 | 4.6 | 4.2 |
| August | 29.902 | 30.208 | 29.441 | 68.8 | 74.2 | 82.9 | 63.2 | 73.0 | 96 | 53 | 60 | 62 | 76 | 66 | .538 | .561 | 2.27 | 1.42 | | 4.1 | 3.7 | 4.3 |
| September | 29.988 | 30.302 | 29.752 | 61.8 | 67.2 | 76.1 | 56.7 | 66.4 | 84 | 42 | 55 | 56 | 80 | 68 | .457 | .467 | 3.42 | 2.18 | | 5.0 | 4.1 | 5.4 |
| October | 29.987 | 30.456 | 29.510 | 47.0 | 53.1 | 64.2 | 42.1 | 53.2 | 80 | 31 | 39 | 40 | 76 | 63 | .255 | .266 | .79 | .38 | | 3.1 | 2.6 | 3.8 |
| November | 30.082 | 30.547 | 29.493 | 45.5 | 51.5 | 61.1 | 40.4 | 50.8 | 77 | 29 | 37 | 36 | 74 | 58 | .238 | .236 | .89 | .53 | | 4.8 | 3.4 | 4.0 |
| December | 29.878 | 30.347 | 29.123 | 28.1 | 33.3 | 39.5 | 24.1 | 31.8 | 66 | 8 | 19 | 21 | 69 | 60 | .107 | .123 | 3.39 | 2.43 | | 5.6 | 3.2 | 4.2 |
| Year | 29.914 | 30.573 | 28.804 | 50.9 | 56.6 | 64.8 | 45.7 | 55.2 | 96 | 8 | 42 | 43 | 74 | 62 | .322 | .332 | 33.55 | 2.80 | | 5.0 | 4.3 | 5.0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

VALENTINE, NEBR.

[H=2,598 ft.; $h_t$=47 ft.; $h_r$=36 ft.; $h_a$=54 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | Wind. Number of winds, 8 a. m. and 8 p. m. North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Number of days. Clear. | Partly cloudy. | Cloudy. | Precipitation. 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | Maximum temp. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 10.4 | W. | 56 | NW. | 1 | 9 | 2 | 2 | 6 | 7 | 13 | 14 | 9 | 0 | 12 | 18 | 1 | 6 | 3 | 5 | 0 | 2 | 14 | 0 | 28 | 0 | 0 |
| February | 9.9 | W. | 30 | NW. | 0 | 8 | 5 | 3 | 2 | 1 | 10 | 16 | 11 | 0 | 9 | 17 | 2 | 6 | 5 | 6 | 0 | 1 | 8 | 0 | 28 | 0 | 0 |
| March | 9.5 | NW. | 37 | NW. | 0 | 11 | 1 | 5 | 4 | 9 | 3 | 10 | 18 | 1 | 10 | 17 | 4 | 3 | 2 | 2 | 0 | 1 | 10 | 0 | 29 | 0 | 0 |
| April | 11.9 | NW. | 44 | NW. | 3 | 17 | 3 | 4 | 7 | 5 | 5 | 6 | 12 | 1 | 9 | 17 | 4 | 12 | 9 | 7 | 0 | 0 | 0 | 0 | 25 | 0 | 0 |
| May | 13.2 | NW. | 54 | NW. | 4 | 11 | 2 | 5 | 6 | 7 | 3 | 7 | 20 | 1 | 14 | 12 | 15 | 14 | 11 | 0 | 1 | 0 | 0 | 1 | 4 | 4 | 0 |
| June | 9.0 | E. | 40 | NW. | 1 | 14 | 7 | 8 | 7 | 12 | 4 | 5 | 3 | 0 | 12 | 18 | 0 | 12 | 6 | 0 | 1 | 1 | 0 | 4 | 0 | 11 | 0 |
| July | 10.5 | S. | 40 | SW. | 1 | 7 | 5 | 8 | 12 | 15 | 4 | 4 | 7 | 0 | 19 | 12 | 0 | 4 | 3 | 0 | 0 | 4 | 0 | 9 | 0 | 6 | 0 |
| August | 9.6 | S. | 42 | E. | 3 | 5 | 2 | 10 | 4 | 21 | 5 | 8 | 6 | 1 | 20 | 11 | 0 | 8 | 4 | 0 | 0 | 2 | 0 | 19 | 0 | 9 | 0 |
| September | 9.3 | S. | 29 | S. | 0 | 8 | 4 | 7 | 5 | 15 | 4 | 8 | 9 | 0 | 17 | 10 | 3 | 5 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 0 |
| October | 11.6 | NW. | 36 | NW. | 0 | 9 | 6 | 6 | 5 | 11 | 3 | 8 | 14 | 0 | 17 | 12 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 14 | 1 | 1 |
| November | 8.6 | W. | 33 | W. | 0 | 6 | 6 | 6 | 0 | 8 | 11 | 17 | 5 | 1 | 9 | 14 | 7 | 7 | 5 | 6 | 0 | 2 | 8 | 0 | 24 | 0 | 1 |
| December | 10.8 | NW. | 44 | NW. | 1 | 7 | 0 | 3 | 3 | 1 | 5 | 15 | 28 | 0 | 7 | 17 | 7 | 10 | 4 | 10 | 0 | 0 | 24 | 0 | 31 | 0 | 0 |
| Year | 10.4 | NW. | 56 | NW. | 14 | 112 | 43 | 67 | 61 | 112 | 70 | 118 | 142 | 5 | 155 | 175 | 35 | 88 | 55 | 37 | 2 | 17 | 64 | 33 | 183 | 33 | 2 |

VICKSBURG, MISS.

[H=247 ft.; $h_t$=62 ft.; $h_r$=53 ft.; $h_a$=74 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 7.3 | E. | 44 | NW. | 1 | 11 | 10 | 11 | 10 | 8 | 5 | 0 | 7 | 0 | 8 | 7 | 16 | 9 | 5 | 0 | 0 | 5 | 0 | 0 | 9 | 1 | 0 |
| February | 9.4 | SE. | 62 | NW. | 2 | 3 | 1 | 4 | 15 | 13 | 5 | 11 | 4 | 0 | 8 | 8 | 12 | 9 | 8 | 1 | 0 | 0 | 0 | 0 | 5 | 8 | 0 |
| March | 8.0 | SE. | 28 | S. | 0 | 10 | 10 | 6 | 11 | 7 | 7 | 1 | 10 | 0 | 11 | 9 | 11 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| April | 8.3 | S. | 42 | NW. | 1 | 5 | 9 | 8 | 13 | 15 | 4 | 3 | 3 | 0 | 13 | 8 | 9 | 11 | 10 | 0 | 1 | 1 | 0 | 0 | 0 | 8 | 0 |
| May | 6.6 | SE. | 52 | NW. | 2 | 3 | 7 | 9 | 18 | 13 | 4 | 1 | 7 | 0 | 9 | 12 | 10 | 12 | 10 | 0 | 1 | 1 | 0 | 0 | 0 | 12 | 0 |
| June | 5.0 | E. | 32 | E. | 0 | 3 | 4 | 12 | 10 | 10 | 7 | 5 | 9 | 0 | 10 | 13 | 7 | 16 | 12 | 0 | 0 | 0 | 0 | 9 | 0 | 12 | 0 |
| July | 6.0 | SW. | 37 | W. | 0 | 4 | 8 | 7 | 7 | 7 | 18 | 6 | 5 | 0 | 7 | 20 | 4 | 5 | 4 | 0 | 0 | 0 | 0 | 24 | 0 | 8 | 0 |
| August | 5.6 | E. | 29 | E. | 0 | 8 | 9 | 16 | 9 | 10 | 5 | 2 | 1 | 2 | 14 | 14 | 3 | 8 | 8 | 0 | 0 | 1 | 0 | 21 | 0 | 6 | 0 |
| September | 6.3 | N. | 48 | NE. | 2 | 19 | 8 | 8 | 11 | 7 | 3 | 2 | 2 | 0 | 19 | 9 | 2 | 7 | 5 | 0 | 0 | 0 | 0 | 14 | 0 | 6 | 0 |
| October | 6.0 | E. | 31 | SE. | 0 | 10 | 8 | 13 | 11 | 5 | 5 | 1 | 6 | 3 | 19 | 11 | 1 | 2 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| November | 6.9 | SE. | 26 | SW. | 0 | 4 | 3 | 10 | 27 | 7 | 3 | 0 | 5 | 1 | 13 | 12 | 5 | 5 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| December | 7.7 | N. | 26 | NW. | 0 | 12 | 9 | 7 | 10 | 8 | 3 | 6 | 7 | 0 | 10 | 7 | 14 | 9 | 8 | 0 | 0 | 0 | 1 | 0 | 16 | 0 | 0 |
| Year | 6.9 | SE. | 62 | NW. | 8 | 92 | 86 | 111 | 152 | 110 | 69 | 38 | 66 | 6 | 141 | 130 | 94 | 100 | 84 | 1 | 2 | 10 | 1 | 69 | 30 | 69 | 0 |

WALLA WALLA, WASH.

[H=1,000 ft.; $h_t$=71 ft.; $h_r$=63 ft.; $h_a$=79 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 6.5 | S. | 43 | SE. | 2 | 1 | 4 | 1 | 8 | 22 | 17 | 4 | 4 | 1 | 5 | 2 | 24 | 15 | 14 | 11 | 0 | 0 | 12 | 0 | 23 | 0 | 0 |
| February | 9.0 | S. | 39 | SE. | 0 | 3 | 0 | 0 | 11 | 28 | 9 | 3 | 1 | 1 | 3 | 10 | 15 | 11 | 9 | 5 | 0 | 0 | 1 | 0 | 7 | 0 | 0 |
| March | 6.3 | S. | 34 | SW. | 0 | 6 | 4 | 2 | 10 | 25 | 9 | 4 | 2 | 0 | 15 | 13 | 3 | 9 | 6 | 1 | 0 | 0 | 0 | 0 | 4 | 1 | 0 |
| April | 7.6 | S. | 36 | SW. | 0 | 4 | 2 | 3 | 3 | 23 | 18 | 3 | 3 | 1 | 10 | 16 | 4 | 6 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 6.8 | S. | 24 | SW. | 0 | 2 | 2 | 1 | 12 | 27 | 8 | 6 | 4 | 0 | 11 | 16 | 4 | 9 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| June | 5.8 | S. | 32 | SE. | 0 | 6 | 3 | 5 | 8 | 21 | 9 | 4 | 4 | 0 | 13 | 9 | 8 | 7 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 0 |
| July | 6.7 | S. | 23 | SW. | 0 | 2 | 2 | 3 | 6 | 27 | 11 | 10 | 1 | 0 | 21 | 6 | 4 | 5 | 4 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 |
| August | 5.5 | S. | 22 | SW. | 0 | 5 | 1 | 1 | 11 | 20 | 11 | 9 | 4 | 0 | 27 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 1 | 0 |
| September | 5.6 | S. | 28 | SW. | 0 | 5 | 2 | 3 | 9 | 21 | 9 | 10 | 0 | 1 | 11 | 12 | 7 | 7 | 5 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 |
| October | 5.0 | S. | 30 | SE. | 0 | 1 | 1 | 2 | 10 | 24 | 13 | 4 | 4 | 3 | 12 | 11 | 8 | 9 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| November | 7.4 | S. | 32 | S. | 0 | 2 | 1 | 2 | 6 | 30 | 13 | 4 | 0 | 2 | 3 | 7 | 20 | 20 | 14 | 1 | 0 | 1 | 4 | 0 | 7 | 0 | 0 |
| December | 4.3 | S. | 31 | SE. | 0 | 6 | 4 | 1 | 5 | 25 | 16 | 2 | 2 | 1 | 1 | 5 | 25 | 13 | 10 | 9 | 0 | 0 | 21 | 0 | 26 | 0 | 0 |
| Year | 6.4 | S. | 43 | SE. | 2 | 43 | 26 | 24 | 99 | 293 | 143 | 63 | 29 | 10 | 132 | 109 | 124 | 112 | 83 | 29 | 0 | 1 | 38 | 30 | 67 | 5 | 1 |

WASHINGTON, D. C.

[H=112 ft.; $h_t$=62 ft.; $h_r$=42 ft.; $h_a$=85 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 7.2 | NW. | 39 | NW. | 0 | 9 | 13 | 2 | 6 | 9 | 3 | 5 | 15 | 0 | 7 | 8 | 16 | 9 | 8 | 3 | 0 | 6 | 4 | 0 | 21 | 0 | 0 |
| February | 8.8 | NW. | 46 | SW. | 3 | 2 | 3 | 5 | 8 | 9 | 11 | 6 | 12 | 0 | 8 | 12 | 8 | 10 | 10 | 1 | 0 | 2 | 1 | 0 | 14 | 1 | 0 |
| March | 9.7 | NW. | 42 | NW. | 1 | 5 | 5 | 5 | 7 | 6 | 3 | 12 | 18 | 1 | 8 | 10 | 13 | 14 | 9 | 4 | 0 | 0 | 0 | 0 | 13 | 1 | 0 |
| April | 8.8 | NW. | 33 | NW. | 0 | 8 | 5 | 7 | 8 | 7 | 2 | 9 | 14 | 0 | 8 | 13 | 9 | 8 | 7 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 0 |
| May | 7.5 | NW. | 33 | NW. | 0 | 6 | 5 | 6 | 8 | 8 | 13 | 5 | 11 | 0 | 14 | 9 | 8 | 11 | 9 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 |
| June | 5.2 | SW. | 30 | NW. | 0 | 8 | 8 | 6 | 8 | 7 | 8 | 10 | 4 | 1 | 10 | 12 | 8 | 12 | 10 | 0 | 0 | 0 | 0 | 6 | 0 | 8 | 0 |
| July | 5.8 | NW. | 24 | SW. | 0 | 8 | 4 | 2 | 12 | 3 | 9 | 12 | 11 | 1 | 15 | 14 | 2 | 10 | 8 | 0 | 0 | 1 | 0 | 6 | 0 | 8 | 0 |
| August | 5.4 | N. | 29 | N. | 0 | 9 | 7 | 8 | 6 | 4 | 8 | 13 | 7 | 0 | 13 | 13 | 5 | 12 | 8 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 0 |
| September | 6.1 | N. | 25 | NW. | 0 | 11 | 4 | 5 | 6 | 12 | 3 | 2 | 17 | 0 | 8 | 12 | 10 | 6 | 6 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 |
| October | 6.0 | NW. | 27 | NW. | 0 | 6 | 3 | 2 | 4 | 6 | 8 | 10 | 23 | 0 | 18 | 7 | 6 | 5 | 3 | 0 | 0 | 2 | 0 | 0 | 2 | 1 | 0 |
| November | 8.2 | S. | 34 | NW. | 0 | 11 | 4 | 2 | 6 | 8 | 8 | 3 | 14 | 4 | 17 | 7 | 6 | 6 | 4 | 1 | 0 | 0 | 0 | 0 | 4 | 1 | 0 |
| December | 7.8 | NW. | 37 | NW. | 0 | 5 | 2 | 5 | 1 | 5 | 4 | 11 | 27 | 2 | 14 | 10 | 7 | 8 | 3 | 5 | 0 | 0 | 8 | 0 | 27 | 0 | 0 |
| Year | 7.2 | NW. | 46 | SW. | 4 | 88 | 63 | 55 | 80 | 84 | 80 | 98 | 173 | 9 | 140 | 127 | 98 | 111 | 85 | 14 | 0 | 13 | 13 | 18 | 83 | 33 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

WICHITA, KANS.

[$\phi$=37° 41′ N.; $\lambda$=97° 20′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 28.695 | 29.155 | 28.117 | 26.6 | 33.0 | 39.5 | 21.7 | 30.6 | 69 | −5 | 22 | 25 | 82 | 73 | 0.143 | 0.156 | 0.27 | 0.12 | 5.9 | 6.4 | 7.3 |
| February | 28.515 | 29.010 | 27.912 | 29.2 | 44.2 | 51.2 | 24.9 | 38.0 | 71 | 1 | 20 | 23 | 69 | 48 | .122 | .135 | .89 | .36 | 4.8 | 3.9 | 5.0 |
| March | 28.535 | 29.023 | 27.987 | 35.4 | 48.7 | 53.5 | 32.8 | 43.2 | 75 | 19 | 28 | 31 | 75 | 54 | .160 | .179 | 1.47 | 1.12 | 4.8 | 5.3 | 5.0 |
| April | 28.512 | 29.102 | 27.984 | 46.6 | 59.8 | 67.4 | 42.1 | 54.8 | 91 | 31 | 36 | 35 | 69 | 43 | .227 | .218 | 1.59 | .78 | 5.2 | 4.6 | 4.8 |
| May | 28.450 | 28.756 | 28.082 | 56.5 | 69.8 | 75.0 | 52.4 | 63.7 | 93 | 27 | 47 | 46 | 70 | 47 | .342 | .339 | 3.64 | 1.24 | 4.7 | 5.1 | 4.9 |
| June | 28.546 | 28.769 | 28.394 | 68.2 | 80.0 | 84.3 | 64.5 | 74.4 | 94 | 54 | 63 | 64 | 85 | 59 | .589 | .612 | 5.71 | 1.74 | 5.9 | 4.6 | 5.3 |
| July | 28.540 | 28.779 | 28.290 | 72.4 | 84.4 | 89.8 | 69.4 | 79.6 | 98 | 59 | 66 | 68 | 82 | 60 | .647 | .696 | 3.26 | .92 | 4.5 | 3.8 | 4.1 |
| August | 28.590 | 28.910 | 28.350 | 72.4 | 85.9 | 91.9 | 70.2 | 81.0 | 106 | 59 | 63 | 63 | 73 | 49 | .587 | .591 | 1.01 | .50 | 4.4 | 3.5 | 3.8 |
| September | 28.640 | 28.981 | 28.138 | 62.1 | 78.0 | 84.7 | 60.3 | 72.5 | 96 | 44 | 54 | 53 | 74 | 45 | .435 | .441 | 1.77 | 1.69 | 3.5 | 3.5 | 3.6 |
| October | 28.637 | 29.036 | 28.122 | 51.4 | 63.0 | 70.6 | 47.3 | 59.0 | 89 | 28 | 42 | 42 | 71 | 50 | .275 | .270 | 2.95 | 1.12 | 4.4 | 3.6 | 4.3 |
| November | 28.644 | 29.061 | 28.276 | 44.0 | 53.3 | 60.2 | 41.3 | 50.8 | 83 | 22 | 39 | 43 | 83 | 71 | .257 | .297 | 6.69 | 4.74 | 6.0 | 5.6 | 6.3 |
| December | 28.667 | 28.957 | 28.284 | 21.4 | 27.6 | 32.9 | 16.8 | 24.8 | 51 | 0 | 18 | 20 | 83 | 73 | .103 | .118 | 1.31 | .71 | 4.7 | 4.4 | 5.2 |
| Year | 28.581 | 29.155 | 27.912 | 48.8 | 60.6 | 66.8 | 45.3 | 56.0 | 106 | −5 | 42 | 43 | 76 | 56 | .324 | .338 | 30.56 | 4.74 | 4.9 | 4.5 | 5.0 |

WILLISTON, N. DAK.

[$\phi$=48° 09′ N.; $\lambda$=103° 35′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 27.998 | 28.694 | 27.339 | 0.6 | 7.4 | 15.5 | 6.6 | 4.4 | 46 | −37 | −2 | 4 | 91 | 86 | 0.052 | 0.071 | 0.31 | 0.15 | 4.1 | 5.3 | 5.6 |
| February | 27.921 | 28.668 | 27.441 | 6.8 | 14.5 | 20.5 | 2.1 | 11.3 | 44 | −29 | 4 | 11 | 89 | 87 | .058 | .084 | .10 | .06 | 7.5 | 6.9 | 6.1 |
| March | 27.983 | 28.502 | 27.551 | 21.3 | 29.7 | 35.3 | 18.8 | 27.0 | 55 | 2 | 16 | 22 | 80 | 72 | .092 | .117 | .12 | .11 | 6.7 | 6.2 | 6.1 |
| April | 27.949 | 28.409 | 27.576 | 27.0 | 39.4 | 45.4 | 22.8 | 34.1 | 62 | 9 | 20 | 22 | 73 | 51 | .108 | .117 | .65 | .45 | 5.6 | 6.2 | 6.2 |
| May | 27.883 | 28.200 | 27.442 | 45.6 | 60.6 | 63.9 | 39.4 | 51.6 | 86 | 20 | 37 | 36 | 74 | 46 | .240 | .243 | 2.82 | 1.48 | 5.3 | 7.1 | 6.3 |
| June | 27.980 | 28.256 | 27.604 | 57.2 | 69.0 | 72.4 | 52.4 | 62.4 | 91 | 40 | 52 | 54 | 83 | 60 | .397 | .422 | 4.02 | .88 | 6.0 | 4.6 | 5.2 |
| July | 27.927 | 28.293 | 27.583 | 61.9 | 74.5 | 78.8 | 56.6 | 67.7 | 93 | 48 | 58 | 60 | 86 | 62 | .480 | .523 | 1.57 | .70 | 6.2 | 5.2 | 5.3 |
| August | 27.960 | 28.323 | 27.607 | 60.1 | 79.4 | 84.5 | 52.7 | 68.6 | 99 | 37 | 52 | 51 | 76 | 39 | .405 | .385 | .22 | .16 | 4.0 | 2.6 | 3.6 |
| September | 27.986 | 28.430 | 27.546 | 48.8 | 68.3 | 75.0 | 46.0 | 60.5 | 88 | 34 | 44 | 46 | 84 | 48 | .291 | .322 | 1.07 | .46 | 4.4 | 4.4 | 4.3 |
| October | 28.021 | 28.515 | 27.585 | 31.0 | 47.1 | 55.3 | 28.2 | 41.8 | 86 | 6 | 27 | 33 | 83 | 60 | .151 | .190 | .21 | .09 | 5.1 | 5.5 | 5.3 |
| November | 27.983 | 28.475 | 27.334 | 23.3 | 29.1 | 39.3 | 17.3 | 28.3 | 68 | −10 | 19 | 21 | 83 | 75 | .111 | .119 | .20 | .12 | 7.8 | 5.7 | 6.9 |
| December | 28.059 | 28.355 | 27.510 | 4.6 | 8.2 | 15.5 | −1.9 | 6.8 | 40 | −20 | 3 | 6 | 92 | 90 | .054 | .063 | .46 | .18 | 6.7 | 5.3 | 7.0 |
| Year | 27.971 | 28.694 | 27.334 | 32.4 | 43.9 | 50.1 | 28.4 | 38.7 | 99 | −37 | 28 | 30 | 83 | 65 | .203 | .221 | 11.75 | 1.48 | 5.8 | 5.4 | 5.7 |

WILMINGTON, N. C.

[$\phi$=34° 14′ N.; $\lambda$=77° 57′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 30.088 | 30.392 | 29.281 | 44.3 | 50.4 | 59.7 | 41.5 | 50.6 | 79 | 19 | 40 | 42 | 85 | 76 | 0.267 | 0.298 | 1.06 | 0.85 | 5.3 | 3.4 | 5.0 |
| February | 30.008 | 30.425 | 29.488 | 47.0 | 53.3 | 62.6 | 43.6 | 53.1 | 73 | 20 | 38 | 42 | 71 | 67 | .266 | .291 | 3.30 | 1.31 | 4.4 | 1.5 | 4.0 |
| March | 29.857 | 30.282 | 29.272 | 49.3 | 54.4 | 63.1 | 44.7 | 53.9 | 75 | 33 | 41 | 43 | 73 | 67 | .275 | .295 | .89 | .23 | 5.6 | 3.6 | 4.6 |
| April | 30.024 | 30.508 | 29.764 | 59.1 | 63.2 | 72.1 | 54.3 | 63.2 | 86 | 38 | 51 | 54 | 77 | 74 | .410 | .443 | 3.76 | 1.29 | 4.2 | 4.3 | 4.4 |
| May | 29.897 | 30.198 | 29.571 | 66.2 | 68.7 | 77.6 | 61.0 | 69.3 | 88 | 48 | 58 | 59 | 77 | 72 | .504 | .513 | 3.07 | 1.56 | 4.6 | 4.2 | 4.2 |
| June | 29.955 | 30.224 | 29.641 | 76.9 | 76.7 | 85.0 | 70.9 | 78.0 | 91 | 61 | 70 | 71 | 81 | 82 | .750 | .756 | 2.57 | 1.50 | 5.5 | 5.7 | 5.5 |
| July | 29.932 | 30.207 | 29.558 | 75.4 | 76.8 | 84.5 | 69.6 | 77.0 | 90 | 62 | 68 | 68 | 78 | 76 | .692 | .700 | 2.97 | 1.55 | 4.6 | 4.5 | 4.7 |
| August | 29.932 | 30.194 | 29.490 | 74.2 | 76.7 | 85.3 | 70.3 | 77.8 | 91 | 60 | 70 | 71 | 86 | 82 | .724 | .752 | 4.09 | 2.25 | 4.9 | 5.1 | 4.9 |
| September | 29.987 | 30.167 | 29.759 | 67.1 | 70.7 | 78.8 | 63.2 | 71.0 | 88 | 48 | 62 | 63 | 84 | 78 | .574 | .600 | 1.23 | .35 | 5.9 | 4.6 | 5.8 |
| October | 30.058 | 30.409 | 29.600 | 54.9 | 62.1 | 71.5 | 51.0 | 61.2 | 79 | 38 | 47 | 51 | 76 | 69 | .343 | .400 | 1.67 | 1.01 | 3.0 | 2.4 | 2.4 |
| November | 30.146 | 30.484 | 29.533 | 51.4 | 58.6 | 68.4 | 48.5 | 58.4 | 78 | 33 | 45 | 50 | 80 | 74 | .324 | .385 | .57 | .30 | 3.0 | 3.9 | 3.4 |
| December | 29.964 | 30.361 | 29.428 | 37.1 | 44.2 | 53.2 | 34.3 | 43.8 | 73 | 16 | 30 | 33 | 74 | 64 | .184 | .207 | 2.50 | 1.63 | 3.6 | 3.4 | 3.5 |
| Year | 29.987 | 30.508 | 29.272 | 58.6 | 63.0 | 71.8 | 54.4 | 63.1 | 91 | 16 | 52 | 54 | 78 | 73 | .443 | .470 | 27.68 | 2.25 | 4.6 | 3.9 | 4.4 |

WINNEMUCCA, NEV.

[$\phi$=40° 58′ N.; $\lambda$=117° 43′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 25.501 | 25.860 | 24.965 | 31.5 | 40.1 | 46.8 | 27.0 | 36.9 | 58 | 4 | 26 | 30 | 81 | 69 | 0.152 | 0.174 | 2.98 | 0.88 | 5.9 | 8.4 | 7.5 |
| February | 25.554 | 25.867 | 25.137 | 29.1 | 40.2 | 45.3 | 24.9 | 35.1 | 58 | 3 | 25 | 30 | 82 | 68 | .134 | .165 | 1.39 | .39 | 7.7 | 6.3 | 6.5 |
| March | 25.541 | 25.868 | 25.126 | 29.7 | 47.3 | 51.6 | 27.2 | 39.4 | 65 | 18 | 26 | 29 | 84 | 51 | .137 | .160 | .84 | .33 | 4.8 | 6.7 | 5.3 |
| April | 25.627 | 26.039 | 25.340 | 31.6 | 58.0 | 62.5 | 28.9 | 45.7 | 74 | 19 | 25 | 21 | 76 | 25 | .133 | .114 | .40 | .19 | 3.2 | 4.6 | 2.7 |
| May | 25.560 | 25.889 | 25.271 | 37.4 | 63.3 | 68.5 | 34.8 | 51.6 | 84 | 20 | 28 | 27 | 67 | 28 | .153 | .151 | .34 | .13 | 4.0 | 5.9 | 3.8 |
| June | 25.572 | 25.734 | 25.335 | 48.7 | 77.3 | 82.6 | 47.4 | 65.0 | 95 | 33 | 37 | 36 | 65 | 24 | .222 | .215 | .03 | .03 | 1.7 | 4.0 | 2.7 |
| July | 25.586 | 25.773 | 25.312 | 50.5 | 82.5 | 87.9 | 48.4 | 68.2 | 100 | 35 | 33 | 33 | 53 | 22 | .193 | .242 | .02 | .02 | 1.3 | 1.3 | 1.0 |
| August | 25.600 | 25.730 | 25.427 | 51.8 | 84.1 | 90.3 | 48.8 | 69.6 | 96 | 37 | 32 | 38 | 49 | 21 | .188 | .233 | .01 | .01 | 1.4 | 1.3 | 1.2 |
| September | 25.663 | 25.892 | 25.340 | 44.6 | 69.6 | 76.9 | 40.7 | 58.8 | 90 | 26 | 32 | 34 | 64 | 31 | .195 | .206 | .04 | .47 | 3.1 | 2.7 | 2.8 |
| October | 25.692 | 25.995 | 25.422 | 35.0 | 59.3 | 67.2 | 32.7 | 50.0 | 78 | 24 | 32 | 32 | 89 | 39 | .180 | .191 | 1.28 | .63 | 3.1 | 4.5 | 4.0 |
| November | 25.648 | 26.040 | 25.292 | 33.2 | 43.8 | 51.1 | 29.4 | 40.2 | 71 | 12 | 30 | 32 | 90 | 67 | .172 | .182 | 1.85 | .52 | 6.1 | 6.4 | 6.8 |
| December | 25.635 | 26.040 | 25.086 | 18.8 | 26.7 | 32.4 | 14.6 | 23.5 | 44 | 1 | 19 | 26 | 100 | 96 | .165 | .136 | 2.44 | 1.06 | 6.7 | 6.9 | 7.0 |
| Year | 25.598 | 26.040 | 24.965 | 36.8 | 57.7 | 63.6 | 33.7 | 48.7 | 100 | 1 | 29 | 31 | 75 | 45 | .164 | .181 | 12.22 | 1.06 | 4.1 | 4.9 | 4.3 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

WICHITA, KANS.

[H=1,358 ft.; $h_t$=98 ft.; $h_r$=91 ft.; $h_a$=121 ft.]

| Month. | Wind. | | | | | | | | | | | | | | Number of days. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | By self-register. | | | | | Number of winds, 8 a. m. and 8 p. m. | | | | | | | | | | | | Precipitation. | | | | | Maximum temp. | | Minimum temperature 32° or below. | Electricity. | |
| | Average hourly velocity. | Prevailing direction. | Maximum velocity. | Direction at time of maximum velocity. | Number of days with gales. | North. | Northeast. | East. | Southeast. | South. | Southwest. | West. | Northwest. | Calm. | Clear. | Partly cloudy. | Cloudy. | 0.01 inch and over. | 0.04 inch and over. | Snow. | Hail. | Fog. | 32° or below. | 90° or above. | | Thunderstorms. | Auroras. |
| | *Miles.* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | |
| January | 12.1 | S. | 62 | NW. | 2 | 14 | 10 | 0 | 8 | 19 | 6 | 0 | 5 | 0 | 3 | 11 | 17 | 6 | 3 | 3 | 0 | 6 | 12 | 0 | 22 | 0 | 0 |
| February | 14.2 | S. | 42 | NW. | 5 | 8 | 2 | 3 | 3 | 18 | 5 | 2 | 15 | 0 | 9 | 14 | 5 | 7 | 4 | 3 | 1 | 0 | 5 | 0 | 20 | 2 | 0 |
| March | 11.8 | N. | 47 | N. | 1 | 16 | 13 | 4 | 8 | 6 | 2 | 1 | 11 | 1 | 11 | 12 | 8 | 7 | 5 | 3 | 0 | 0 | 4 | 0 | 14 | 4 | 0 |
| April | 15.2 | S. | 43 | SW. | 3 | 9 | 6 | 2 | 9 | 17 | 6 | 1 | 11 | 0 | 10 | 12 | 8 | 5 | 4 | 0 | 1 | 0 | 0 | 1 | 2 | 7 | 0 |
| May | 11.6 | SE. | 41 | N. | 1 | 5 | 5 | 4 | 14 | 13 | 7 | 3 | 11 | 0 | 12 | 11 | 8 | 7 | 7 | 0 | 1 | 0 | 0 | 1 | 1 | 6 | 0 |
| June | 9.3 | S. | 45 | NE. | 2 | 3 | 7 | 8 | 10 | 21 | 6 | 1 | 4 | 0 | 4 | 24 | 2 | 14 | 12 | 0 | 2 | 0 | 0 | 6 | 0 | 14 | 0 |
| July | 9.1 | SE. | 56 | NW. | 2 | 5 | 8 | 4 | 24 | 17 | 4 | 0 | 0 | 0 | 13 | 16 | 2 | 10 | 10 | 0 | 0 | 0 | 0 | 16 | 0 | 11 | 0 |
| August | 9.3 | SE. | 36 | N. | 0 | 3 | 7 | 2 | 23 | 22 | 3 | 2 | 0 | 0 | 14 | 16 | 1 | 4 | 3 | 0 | 0 | 0 | 0 | 22 | 0 | 6 | 0 |
| September | 8.8 | SE. | 30 | N. | 0 | 4 | 7 | 4 | 20 | 19 | 3 | 0 | 3 | 0 | 16 | 11 | 3 | 3 | 3 | 0 | 0 | 1 | 0 | 7 | 0 | 2 | 0 |
| October | 11.7 | S. | 41 | NW. | 1 | 7 | 3 | 6 | 12 | 17 | 7 | 0 | 10 | 0 | 14 | 10 | 7 | 7 | 5 | 0 | 0 | 1 | 0 | 0 | 1 | 3 | 0 |
| November | 12.6 | S. | 32 | S. | 0 | 7 | 8 | 4 | 6 | 21 | 5 | 0 | 9 | 0 | 7 | 10 | 13 | 9 | 6 | 0 | 0 | 1 | 0 | 0 | 7 | 4 | 0 |
| December | 10.9 | NW. | 34 | NW. | 0 | 15 | 2 | 1 | 5 | 9 | 6 | 4 | 20 | 0 | 10 | 13 | 8 | 5 | 3 | 2 | 0 | 1 | 14 | 0 | 29 | 1 | 0 |
| Year | 11.4 | S. | 62 | NW. | 17 | 96 | 77 | 42 | 142 | 199 | 60 | 14 | 99 | 1 | 123 | 160 | 82 | 84 | 65 | 11 | 5 | 10 | 35 | 53 | 96 | 60 | 0 |

WILLISTON, N. DAK.

[H=1,872 ft.; $h_t$=14 ft ; $h_r$=4 ft.; $h_a$=56 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 9.4 | SW. | 41 | NW. | 1 | 9 | 4 | 4 | 11 | 9 | 12 | 6 | 7 | 0 | 12 | 8 | 11 | 5 | 2 | 5 | 0 | 0 | 20 | 0 | 31 | 0 | 0 |
| February | 7.4 | NW. | 27 | NW. | 0 | 11 | 4 | 2 | 10 | 5 | 4 | 8 | 12 | 0 | 6 | 12 | 10 | 4 | 1 | 4 | 0 | 1 | 21 | 0 | 28 | 0 | 0 |
| March | 10.1 | NW. | 44 | W. | 1 | 8 | 4 | 4 | 9 | 7 | 1 | 11 | 17 | 1 | 7 | 13 | 11 | 3 | 1 | 3 | 0 | 0 | 11 | 0 | 31 | 0 | 0 |
| April | 12.6 | NW. | 49 | W. | 3 | 8 | 4 | 4 | 10 | 4 | 5 | 6 | 19 | 0 | 9 | 8 | 13 | 7 | 5 | 3 | 0 | 0 | 2 | 0 | 29 | 0 | 0 |
| May | 12.0 | E. | 52 | NW. | 2 | 7 | 10 | 13 | 10 | 3 | 4 | 5 | 10 | 0 | 7 | 12 | 12 | 9 | 7 | 0 | 0 | 1 | 0 | 0 | 7 | 2 | 0 |
| June | 9.3 | E. | 35 | W. | 0 | 6 | 9 | 10 | 9 | 9 | 5 | 3 | 9 | 0 | 11 | 10 | 9 | 12 | 9 | 0 | 0 | 0 | 0 | 1 | 0 | 5 | 0 |
| July | 9.5 | SE. | 44 | W. | 1 | 4 | 4 | 7 | 17 | 7 | 6 | 8 | 9 | 0 | 13 | 7 | 11 | 10 | 6 | 0 | 0 | 2 | 0 | 3 | 0 | 3 | 0 |
| August | 7.9 | SE. | 48 | W. | 3 | 12 | 3 | 6 | 12 | 11 | 7 | 2 | 9 | 0 | 16 | 11 | 4 | 4 | 3 | 0 | 0 | 0 | 0 | 9 | 0 | 1 | 0 |
| September | 8.1 | SE. | 42 | NW. | 1 | 6 | 2 | 4 | 16 | 8 | 12 | 5 | 7 | 0 | 12 | 11 | 7 | 10 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 1 |
| October | 9.2 | NW. | 44 | W. | 2 | 12 | 4 | 6 | 8 | 7 | 3 | 8 | 14 | 0 | 6 | 17 | 8 | 7 | 3 | 2 | 0 | 1 | 2 | 0 | 22 | 0 | 0 |
| November | 8.4 | SE. | 43 | W. | 1 | 7 | 8 | 5 | 12 | 9 | 4 | 7 | 8 | 0 | 4 | 15 | 11 | 5 | 3 | 5 | 0 | 0 | 12 | 0 | 26 | 0 | 0 |
| December | 9.7 | NW. | 44 | NW. | 1 | 7 | 3 | 3 | 12 | 2 | 6 | 11 | 18 | 0 | 8 | 7 | 16 | 6 | 5 | 6 | 0 | 0 | 27 | 0 | 31 | 0 | 0 |
| Year | 9.5 | NW. | 52 | NW. | 16 | 97 | 59 | 68 | 136 | 81 | 69 | 80 | 139 | 1 | 111 | 131 | 123 | 82 | 51 | 28 | 1 | 5 | 95 | 13 | 205 | 14 | 1 |

WILMINGTON, N. C.

[H=78 ft.; $h_t$=81 ft.; $h_r$=75 ft.; $h_a$=91 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 7.8 | N. | 36 | SW. | 0 | 11 | 9 | 7 | 6 | 7 | 6 | 3 | 13 | 0 | 10 | 12 | 9 | 6 | 2 | 0 | 0 | 3 | 1 | 0 | 5 | 0 | 0 |
| February | 10.3 | SW. | 40 | SW. | 1 | 1 | 3 | 3 | 2 | 9 | 21 | 7 | 9 | 1 | 14 | 8 | 6 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 |
| March | 9.4 | SW. | 41 | SW. | 1 | 9 | 8 | 3 | 4 | 7 | 14 | 10 | 7 | 0 | 10 | 15 | 6 | 9 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| April | 10.3 | SW. | 33 | SW. | 0 | 6 | 9 | 6 | 4 | 12 | 13 | 6 | 4 | 0 | 9 | 17 | 4 | 9 | 8 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 |
| May | 8.7 | SW. | 42 | SW. | 1 | 7 | 4 | 6 | 2 | 13 | 16 | 12 | 2 | 0 | 13 | 13 | 5 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| June | 8.3 | SW. | 34 | SW. | 0 | 1 | 5 | 4 | 6 | 9 | 29 | 6 | 0 | 0 | 4 | 20 | 6 | 11 | 10 | 0 | 0 | 0 | 0 | 2 | 0 | 10 | 0 |
| July | 7.9 | SW. | 29 | SW. | 0 | 3 | 10 | 5 | 4 | 5 | 26 | 6 | 3 | 0 | 11 | 15 | 5 | 11 | 7 | 0 | 0 | 0 | 0 | 2 | 0 | 7 | 0 |
| August | 6.2 | NE. | 24 | SW. | 0 | 4 | 17 | 5 | 6 | 8 | 10 | 6 | 6 | 0 | 10 | 15 | 6 | 12 | 7 | 0 | 0 | 0 | 0 | 2 | 0 | 7 | 0 |
| September | 7.6 | NE. | 28 | N. | 0 | 12 | 27 | 4 | 6 | 2 | 4 | 1 | 4 | 0 | 5 | 16 | 9 | 10 | 7 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| October | 7.0 | NE. | 38 | SW. | 0 | 10 | 16 | 6 | 3 | 7 | 5 | 9 | 6 | 0 | 20 | 10 | 1 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| November | 7.0 | N. | 28 | W. | 0 | 11 | 14 | 2 | 2 | 8 | 8 | 6 | 9 | 0 | 15 | 12 | 3 | 5 | 4 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 0 |
| December | 8.1 | NW. | 36 | NW. | 0 | 10 | 5 | 2 | 3 | 2 | 11 | 16 | 13 | 0 | 18 | 6 | 7 | 10 | 7 | 0 | 0 | 0 | 1 | 0 | 12 | 0 | 0 |
| Year | 8.2 | SW. | 42 | SW. | 3 | 85 | 127 | 53 | 48 | 89 | 163 | 88 | 76 | 1 | 139 | 159 | 67 | 99 | 73 | 0 | 1 | 11 | 2 | 6 | 19 | 38 | 0 |

WINNEMUCCA, NEV.

[H=4,344 ft.; $h_t$=18 ft.; $h_r$=3 ft.; $h_a$=56 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 10.0 | SW. | 42 | SW. | 2 | 0 | 16 | 0 | 0 | 5 | 32 | 8 | 1 | 0 | 3 | 9 | 19 | 13 | 9 | 4 | 0 | 0 | 2 | 0 | 20 | 0 | 0 |
| February | 7.0 | SW. | 34 | SW. | 0 | 1 | 10 | 1 | 0 | 6 | 28 | 8 | 2 | 0 | 6 | 7 | 15 | 12 | 7 | 8 | 0 | 0 | 0 | 0 | 26 | 0 | 0 |
| March | 6.9 | SW. | 41 | NW. | 1 | 4 | 20 | 5 | 0 | 2 | 20 | 7 | 4 | 0 | 9 | 9 | 13 | 11 | 7 | 8 | 0 | 0 | 0 | 0 | 26 | 0 | 0 |
| April | 6.5 | SW. | 33 | W. | 0 | 4 | 15 | 1 | 1 | 3 | 13 | 7 | 15 | 1 | 21 | 6 | 3 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 23 | 0 | 0 |
| May | 6.1 | SW. | 34 | SW. | 0 | 8 | 16 | 1 | 0 | 2 | 18 | 13 | 4 | 0 | 16 | 8 | 7 | 4 | 4 | 0 | 1 | 0 | 0 | 0 | 11 | 1 | 0 |
| June | 5.9 | SW. | 41 | NW. | 1 | 5 | 11 | 2 | 1 | 3 | 26 | 5 | 7 | 0 | 21 | 6 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 |
| July | 5.5 | SW. | 28 | SW. | 0 | 2 | 10 | 0 | 1 | 3 | 22 | 11 | 11 | 2 | 27 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 2 | 0 |
| August | 5.3 | NE. | 26 | SW. | 0 | 3 | 14 | 1 | 2 | 7 | 13 | 14 | 8 | 0 | 27 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 1 | 0 |
| September | 4.9 | NE. | 33 | SW. | 0 | 5 | 25 | 1 | 1 | 1 | 15 | 4 | 7 | 1 | 20 | 4 | 6 | 5 | 3 | 0 | 1 | 0 | 0 | 1 | 4 | 2 | 0 |
| October | 5.2 | NE. | 31 | W. | 0 | 2 | 27 | 0 | 0 | 3 | 18 | 10 | 2 | 0 | 16 | 7 | 8 | 8 | 4 | 3 | 0 | 0 | 0 | 0 | 15 | 0 | 0 |
| November | 7.7 | SW. | 33 | SW. | 0 | 0 | 18 | 2 | 0 | 5 | 29 | 4 | 2 | 0 | 5 | 8 | 17 | 10 | 9 | 4 | 0 | 0 | 0 | 0 | 20 | 0 | 0 |
| December | 5.8 | NE. | 29 | SW. | 0 | 4 | 33 | 4 | 1 | 3 | 12 | 5 | 0 | 0 | 6 | 5 | 20 | 14 | 9 | 10 | 0 | 0 | 15 | 0 | 31 | 0 | 0 |
| Year | 6.4 | SW. | 42 | SW. | 4 | 38 | 215 | 18 | 7 | 43 | 246 | 96 | 63 | 4 | 177 | 76 | 112 | 84 | 54 | 39 | 2 | 0 | 17 | 42 | 176 | 6 | 0 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

WYTHEVILLE, VA.

[$\phi$=36° 56′ N.; $\lambda$=81° 5′ W.]

| Month. | Pressure. | | | Temperature. | | | | | | | Moisture. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Extremes. | | Mean. | | | | | Extremes. | | Dew-point. | | Relative humidity. | | Vapor pressure. | | Precipitation. | | Cloudiness. | | |
| | Monthly mean. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | Maximum. | Minimum. | Monthly. | Maximum. | Minimum. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | 8 a. m. | 8 p. m. | Total. | Maximum in 24 hours. | 8 a. m. | 8 p. m. | Daylight. |
| | *In.* | *In.* | *In.* | ° | ° | ° | ° | ° | ° | ° | ° | ° | % | % | *In.* | *In.* | *In.* | *In.* | | | |
| January | 27.727 | 27.953 | 26.957 | 34.2 | 37.8 | 47.6 | 29.5 | 38.6 | 65 | 3 | 30 | 33 | 86 | 83 | 0.184 | 0.202 | 2.53 | 1.08 | 5.9 | 6.0 | 5.7 |
| February | 27.592 | 28.042 | 27.077 | 35.3 | 42.0 | 50.6 | 30.8 | 40.7 | 66 | 7 | 30 | 35 | 80 | 75 | .183 | .215 | 2.21 | .63 | 5.3 | 3.8 | 4.6 |
| March | 27.510 | 27.900 | 26.989 | 35.1 | 41.4 | 50.3 | 31.5 | 40.9 | 70 | 20 | 31 | 35 | 84 | 78 | .176 | .210 | 3.81 | .68 | 5.7 | 4.9 | 4.5 |
| April | 27.674 | 28.094 | 27.336 | 47.6 | 55.1 | 63.7 | 42.1 | 52.9 | 82 | 20 | 41 | 42 | 78 | 64 | .273 | .279 | 3.73 | 1.57 | 5.2 | 4.3 | 3.5 |
| May | 27.603 | 27.851 | 27.259 | 54.9 | 61.5 | 71.2 | 47.1 | 59.2 | 83 | 31 | 48 | 49 | 79 | 65 | .349 | .356 | 4.65 | 2.34 | 4.2 | 4.5 | 3.0 |
| June | 27.696 | 27.923 | 27.398 | 65.6 | 69.0 | 79.9 | 59.7 | 69.8 | 88 | 45 | 62 | 63 | 88 | 82 | .553 | .581 | 6.33 | 2.35 | 5.1 | 5.3 | 3.9 |
| July | 27.680 | 27.940 | 27.442 | 64.6 | 69.8 | 78.2 | 57.3 | 67.8 | 86 | 46 | 60 | 63 | 85 | 80 | .525 | .585 | 2.67 | .94 | 4.2 | 4.5 | 3.3 |
| August | 27.714 | 27.951 | 27.315 | 64.2 | 69.2 | 79.7 | 58.5 | 69.1 | 89 | 43 | 61 | 63 | 90 | 82 | .542 | .582 | 2.49 | .95 | 3.9 | 3.8 | 2.8 |
| September | 27.758 | 27.959 | 27.617 | 56.8 | 62.3 | 72.3 | 52.7 | 62.5 | 81 | 36 | 54 | 56 | 89 | 80 | .428 | .461 | 2.83 | 1.19 | 5.1 | 4.0 | 4.0 |
| October | 27.734 | 28.020 | 27.343 | 43.6 | 49.3 | 61.1 | 38.8 | 50.0 | 74 | 24 | 38 | 42 | 81 | 76 | .235 | .274 | 3.06 | 2.28 | 3.8 | 2.6 | 3.8 |
| November | 27.824 | 28.152 | 27.328 | 39.0 | 46.7 | 60.1 | 35.4 | 47.8 | 71 | 21 | 34 | 37 | 83 | 70 | .207 | .234 | .57 | .35 | 2.8 | 2.6 | 3.6 |
| December | 27.576 | 27.900 | 27.076 | 24.6 | 29.4 | 38.0 | 21.7 | 29.8 | 67 | 1 | 21 | 24 | 86 | 80 | .119 | .135 | 2.02 | .90 | 5.9 | 3.1 | 5.0 |
| Year | 27.674 | 28.152 | 26.957 | 47.1 | 52.8 | 62.7 | 42.1 | 52.4 | 89 | 1 | 42 | 45 | 84 | 76 | .314 | .343 | 36.90 | 2.35 | 4.8 | 4.2 | 4.0 |

YANKTON, S. DAK.

[$\phi$=42° 54′ N.; $\lambda$=97° 28′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 28.777 | 29.323 | 28.163 | 14.4 | ..... | 27.5 | 9.8 | 18.6 | 53 | −18 | 11 | .... | 84 | .... | 0.086 | ..... | 0.77 | 0.43 | 7.0 | ..... | 6.7 |
| February | 28.598 | 29.220 | 28.109 | 16.2 | ..... | 32.5 | 12.2 | 22.4 | 59 | −18 | 12 | .... | 83 | .... | .084 | ..... | 1.75 | 1.05 | 5.2 | ..... | 6.4 |
| March | 28.671 | 29.198 | 28.317 | 25.8 | ..... | 39.0 | 22.8 | 30.9 | 61 | 10 | 21 | .... | 80 | .... | .110 | ..... | .75 | .67 | 5.8 | ..... | 5.7 |
| April | 28.618 | 29.139 | 28.126 | 34.3 | ..... | 52.6 | 30.7 | 41.6 | 77 | 22 | 28 | .... | 78 | .... | .156 | ..... | 1.74 | .65 | 6.7 | ..... | 6.7 |
| May | 28.522 | 28.835 | 28.137 | 49.9 | ..... | 70.3 | 45.8 | 58.0 | 94 | 21 | 43 | .... | 77 | .... | .292 | ..... | 4.93 | 2.48 | 5.1 | ..... | 6.5 |
| June | 28.637 | 28.888 | 28.435 | 63.7 | ..... | 78.7 | 59.3 | 69.0 | 94 | 48 | 59 | .... | 85 | .... | .511 | ..... | 5.50 | 2.66 | 5.5 | ..... | 6.0 |
| July | 28.626 | 28.920 | 28.379 | 67.1 | ..... | 81.6 | 62.9 | 72.2 | 97 | 54 | 62 | .... | 85 | .... | .565 | ..... | 5.24 | 1.80 | 4.9 | ..... | 5.6 |
| August | 28.649 | 29.075 | 28.439 | 69.6 | ..... | 87.8 | 66.6 | 77.2 | 96 | 44 | 64 | .... | 82 | .... | .603 | ..... | 3.56 | 1.19 | 4.1 | ..... | 4.6 |
| September | 28.737 | 29.111 | 28.233 | 54.3 | ..... | 73.7 | 51.5 | 62.6 | 87 | 40 | 50 | .... | 85 | .... | .371 | ..... | 3.67 | 1.66 | 5.0 | ..... | 5.9 |
| October | 28.704 | 29.265 | 28.333 | 42.0 | ..... | 60.9 | 39.0 | 50.0 | 89 | 18 | 36 | .... | 80 | .... | .226 | ..... | 2.22 | 1.53 | 5.3 | ..... | 5.5 |
| November | 28.695 | 29.298 | 28.107 | 32.3 | ..... | 47.8 | 26.8 | 37.3 | 81 | 9 | 28 | .... | 83 | .... | .164 | ..... | 2.50 | .69 | 6.3 | ..... | 6.6 |
| December | 28.730 | 29.064 | 28.262 | 9.6 | ..... | 19.3 | 4.9 | 12.1 | 46 | −19 | 6 | .... | 83 | .... | .064 | ..... | 1.90 | .71 | 6.6 | ..... | 7.2 |
| Year | 28.664 | 29.323 | 28.107 | 39.9 | ..... | 56.0 | 36.0 | 46.0 | 97 | −19 | 35 | .... | 82 | .... | .269 | ..... | 34.53 | 2.66 | 5.6 | ..... | 6.1 |

YELLOWSTONE PARK, WYO.

[$\phi$=44° 58′ N.; $\lambda$=110° 42′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 23.697 | 24.252 | 23.233 | 19.5 | 23.1 | 30.0 | 12.5 | 21.2 | 41 | −18 | 14 | 16 | 80 | 74 | 0.098 | 0.103 | 1.61 | 0.29 | 6.1 | 7.4 | 8.4 |
| February | 23.718 | 24.131 | 23.374 | 17.0 | 24.0 | 29.7 | 12.3 | 21.0 | 43 | −10 | 12 | 16 | 79 | 70 | .077 | .091 | .65 | .34 | 5.2 | 4.6 | 8.2 |
| March | 23.760 | 24.032 | 23.406 | 21.3 | 32.5 | 37.6 | 18.5 | 28.0 | 48 | −13 | [1]17 | 21 | [1]83 | 61 | [1].095 | .112 | .77 | .29 | [1]6.9 | [1]6.1 | 6.2 |
| April | 23.778 | 24.252 | 23.485 | 24.1 | 35.7 | 41.4 | 20.1 | 30.8 | 53 | 4 | 17 | 21 | 74 | 56 | .097 | .112 | .81 | .36 | 6.8 | 7.4 | 7.7 |
| May | 23.793 | 24.087 | 23.536 | 33.2 | 49.1 | 53.5 | 31.1 | 42.3 | 66 | 21 | 27 | 28 | 78 | 45 | .150 | .150 | .95 | .33 | [1]6.1 | 7.3 | 7.5 |
| June | 23.913 | 24.134 | 23.680 | 44.3 | 63.3 | 68.2 | 41.7 | 55.0 | 86 | 33 | 37 | 37 | 76 | 42 | .218 | .225 | .75 | .31 | [2]5.1 | [2]6.5 | 6.1 |
| July | 23.948 | 24.211 | 23.644 | 48.3 | 69.4 | 75.3 | 46.4 | 60.8 | 88 | 36 | 40 | 39 | 76 | 36 | .247 | .246 | 1.85 | .42 | 2.9 | 5.2 | 4.4 |
| August | 23.979 | 24.168 | 23.803 | 49.1 | 72.4 | 78.1 | 47.1 | 62.6 | 84 | 31 | 40 | 40 | 71 | 33 | .248 | .253 | .70 | .35 | 3.1 | 3.6 | 4.1 |
| September | 23.977 | 24.231 | 23.636 | 42.1 | 55.1 | 63.1 | 39.6 | 51.4 | 75 | 26 | 36 | 38 | 81 | 56 | .221 | .239 | 2.45 | .87 | 5.6 | 5.7 | 6.4 |
| October | 23.940 | 24.287 | 23.604 | 34.0 | 45.8 | 54.3 | 30.9 | 42.2 | 66 | 16 | 26 | 27 | 72 | 60 | .139 | .149 | .34 | .11 | 5.8 | 6.0 | 5.8 |
| November | 23.836 | 24.242 | 23.381 | 28.1 | 31.6 | 38.9 | 22.7 | 30.8 | 57 | − 1 | 21 | 22 | 74 | 69 | .118 | .123 | 1.16 | .41 | 6.7 | 6.0 | 6.9 |
| December | 23.812 | 24.163 | 23.354 | 10.3 | 13.5 | 20.7 | 4.1 | 12.4 | 36 | −16 | 7 | 8 | 84 | 79 | .062 | .067 | 1.27 | .46 | 6.9 | 5.7 | 6.4 |
| Year | 23.846 | 24.287 | 23.233 | 30.9 | 43.0 | 49.2 | 27.2 | 38.2 | 88 | −18 | 24 | 26 | 77 | 56 | .148 | .156 | 13.31 | .87 | 5.6 | 6.0 | 6.5 |

[1] One observation missing. [2] Two observations missing. [3] Five observations missing.

YUMA, ARIZ.

[$\phi$=32° 45′ N.; $\lambda$=114° 36′ W.]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 29.883 | 30.050 | 29.600 | 47.0 | 66.1 | 70.9 | 44.4 | 57.6 | 80 | 35 | 36 | 38 | 66 | 37 | 0.215 | 0.240 | 0.05 | 0.04 | 1.0 | 1.9 | 1.7 |
| February | 29.886 | 30.102 | 29.527 | 46.5 | 68.7 | 71.7 | 44.0 | 57.8 | 83 | 36 | 32 | 30 | 58 | 25 | .184 | .172 | .08 | .06 | .7 | 2.1 | 1.8 |
| March | 29.772 | 30.001 | 29.543 | 47.0 | 70.6 | 74.0 | 45.2 | 59.6 | 83 | 35 | 34 | 32 | 61 | 27 | .197 | .189 | .64 | .34 | .6 | 1.4 | 1.2 |
| April | 29.741 | 30.009 | 29.444 | 53.5 | 83.6 | 86.6 | 51.3 | 69.0 | 96 | 43 | 36 | 36 | 53 | 19 | .216 | .213 | 0 | 0 | .2 | .4 | .3 |
| May | 29.627 | 29.848 | 29.405 | 58.2 | 90.1 | 92.4 | 57.3 | 74.8 | 106 | 51 | 41 | 40 | 56 | 18 | .265 | .247 | 0 | 0 | .4 | .6 | .5 |
| June | 29.593 | 29.745 | 29.315 | 65.5 | 99.4 | 102.5 | 65.1 | 83.8 | 111 | 58 | 52 | 54 | 62 | 23 | .398 | .424 | 0 | 0 | .2 | .1 | .3 |
| July | 29.609 | 29.750 | 29.349 | 76.2 | 101.1 | 105.9 | 74.6 | 90.2 | 112 | 64 | 63 | 63 | 64 | 30 | .576 | .594 | .01 | .01 | .9 | .6 | .8 |
| August | 29.627 | 29.756 | 29.403 | 78.1 | 96.4 | 100.5 | 76.4 | 88.4 | 110 | 71 | 70 | 70 | 76 | 45 | .726 | .731 | 6.25 | 4.01 | 1.9 | 2.5 | 2.2 |
| September | 29.688 | 29.835 | 29.468 | 69.3 | 93.0 | 97.5 | 67.9 | 82.7 | 105 | 52 | 59 | 61 | 73 | 37 | .525 | .552 | .96 | .95 | .3 | .8 | .8 |
| October | 29.756 | 29.937 | 29.543 | 54.6 | 81.1 | 88.7 | 51.7 | 70.2 | 96 | 45 | 43 | 47 | 69 | 33 | .286 | .334 | 0 | 0 | .1 | .4 | .3 |
| November | 29.864 | 30.151 | 29.566 | 47.8 | 67.9 | 76.4 | 44.7 | 60.6 | 91 | 35 | 34 | 39 | 62 | 36 | .204 | .243 | .18 | .18 | .2 | 1.3 | 1.1 |
| December | 29.895 | 30.204 | 29.519 | 43.3 | 55.5 | 60.9 | 39.6 | 50.2 | 74 | 26 | 26 | 26 | 53 | 34 | .149 | .154 | .46 | .36 | 1.3 | 2.7 | 3.7 |
| Year | 29.745 | 30.204 | 29.315 | 57.2 | 81.1 | 85.7 | 55.2 | 70.4 | 112 | 26 | 44 | 45 | 63 | 30 | .328 | .341 | 8.63 | 4.01 | .6 | 1.2 | 1.2 |

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1909—Continued.

WYTHEVILLE, VA.

[H=2,293 ft.; $h_t$=40 ft.; $h_p$=32 ft., $h_a$=47 ft.]

| Month. | Wind. By self-register. Average hourly velocity. | Prevailing directions. | 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. 32° or below. | 90° or above. | Minimum temperature 32° or below. | Electricity. Thunderstorms. | Auroras. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Miles* | | *Mi.* | | | | | | | | | | | | | | | | | | | | | | | | |
| January | 5.9 | W. | 30 | W. | 0 | 1 | 2 | 12 | 1 | 0 | 11 | 24 | 7 | 4 | 12 | 3 | 16 | 9 | 9 | 2 | 0 | 1 | 5 | 0 | 21 | 0 | 0 |
| February | 9.1 | W. | 32 | NW. | 0 | 0 | 1 | 3 | 4 | 6 | 6 | 30 | 3 | 3 | 14 | 3 | 11 | 13 | 9 | 3 | 1 | 0 | 1 | 0 | 18 | 1 | 0 |
| March | 7.8 | W. | 32 | W. | 0 | 0 | 1 | 5 | 3 | 1 | 7 | 20 | 22 | 3 | 13 | 10 | 8 | 17 | 12 | 5 | 0 | 0 | 0 | 0 | 19 | 2 | 0 |
| April | 6.5 | W. | 30 | W. | 0 | 2 | 2 | 3 | 5 | 7 | 3 | 26 | 10 | 2 | 17 | 7 | 6 | 16 | 10 | 1 | 0 | 0 | 0 | 0 | 4 | 4 | 0 |
| May | 5.1 | W. | 21 | W. | 0 | 6 | 2 | 10 | 2 | 3 | 9 | 19 | 7 | 4 | 21 | 4 | 6 | 11 | 7 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 |
| June | 4.0 | W. | 22 | W. | 0 | 3 | 2 | 9 | 2 | 5 | 14 | 17 | 7 | 1 | 12 | 17 | 1 | 16 | 13 | 0 | 0 | 2 | 0 | 0 | 0 | 14 | 0 |
| July | 4.0 | W. | 19 | W. | 0 | 2 | 1 | 8 | 3 | 1 | 14 | 18 | 11 | 4 | 17 | 11 | 3 | 13 | 8 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 0 |
| August | 3.3 | NW. | 23 | W. | 0 | 3 | 4 | 10 | 2 | 1 | 10 | 13 | 13 | 6 | 19 | 9 | 3 | 10 | 7 | 0 | 1 | 1 | 0 | 0 | 0 | 5 | 0 |
| September | 3.8 | E. | 21 | SW. | 0 | 4 | 2 | 17 | 4 | 2 | 7 | 9 | 8 | 7 | 12 | 13 | 5 | 10 | 8 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 0 |
| October | 5.3 | W. | 27 | W. | 0 | 1 | 5 | 7 | 4 | 1 | 11 | 21 | 11 | 1 | 16 | 7 | 8 | 4 | 3 | 0 | 0 | 1 | 0 | 0 | 6 | 1 | 0 |
| November | 5.4 | W. | 26 | W. | 0 | 1 | 4 | 5 | 2 | 2 | 9 | 18 | 13 | 6 | 16 | 9 | 5 | 6 | 4 | 0 | 0 | 4 | 0 | 0 | 12 | 0 | 0 |
| December | 7.7 | W. | 34 | W. | 0 | 1 | 5 | 3 | 0 | 1 | 9 | 32 | 9 | 2 | 13 | 8 | 10 | 6 | 5 | 3 | 0 | 0 | 11 | 0 | 28 | 0 | 0 |
| Year | 5.7 | W. | 34 | W. | 0 | 24 | 31 | 92 | 32 | 30 | 110 | 247 | 121 | 43 | 182 | 101 | 82 | 131 | 95 | 14 | 2 | 13 | 17 | 0 | 110 | 35 | 0 |

YANKTON, S. DAK.

[H=1,233 ft.; $h_t$=49 ft.; $h_p$=42 ft.; $h_a$=57 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 9.8 | NW | 58 | NW. | 2 | 0 | 1 | 3 | 4 | 3 | 4 | 6 | 10 | 0 | 7 | 5 | 19 | 8 | 4 | 6 | 0 | 1 | 17 | 0 | 29 | 0 | 1 |
| February | 9.2 | NW. | 47 | NW. | 1 | 5 | 4 | 1 | 2 | 1 | 5 | 3 | 6 | 1 | 4 | 12 | 12 | 5 | 5 | 5 | 0 | 0 | 9 | 0 | 28 | 0 | 0 |
| March | 8.9 | W. | 33 | W. | 0 | 1 | 2 | 6 | 2 | 0 | 7 | 8 | 5 | 0 | 8 | 14 | 9 | 4 | 2 | 4 | 0 | 0 | 9 | 0 | 27 | 0 | 0 |
| April | 11.1 | NE. | 42 | W. | 1 | 3 | 7 | 4 | 1 | 1 | 4 | 4 | 6 | 0 | 3 | 16 | 11 | 10 | 7 | 1 | 0 | 0 | 0 | 0 | 21 | 3 | 0 |
| May | 10.3 | E. | 48 | NW. | 2 | 1 | 4 | 8 | 4 | 1 | 3 | 2 | 8 | 0 | 3 | 19 | 9 | 13 | 9 | 0 | 1 | 0 | 0 | 1 | 4 | 8 | 0 |
| June | 6.4 | NE. | 29 | W. | 0 | 2 | 7 | 6 | 5 | 2 | 4 | 2 | 2 | 0 | 2 | 23 | 5 | 15 | 11 | 0 | 1 | 2 | 0 | 3 | 0 | 11 | 0 |
| July | 7.4 | NE. | 35 | NW. | 0 | 3 | 7 | 6 | 5 | 2 | 4 | 2 | 2 | 0 | 10 | 12 | 9 | 11 | 9 | 0 | 0 | 0 | 0 | 5 | 0 | 8 | 0 |
| August | 6.9 | SE. | 41 | S. | 1 | 3 | 5 | 2 | 7 | 6 | 4 | 2 | 2 | 0 | 10 | 17 | 4 | 10 | 8 | 0 | 0 | 0 | 0 | 11 | 0 | 11 | 0 |
| September | 6.4 | E. | 39 | SW. | 0 | 2 | 0 | 8 | 7 | 0 | 5 | 4 | 4 | 0 | 10 | 9 | 11 | 10 | 9 | 0 | 0 | 3 | 0 | 0 | 0 | 5 | 0 |
| October | 9.0 | NW. | 39 | SE. | 0 | 2 | 2 | 7 | 5 | 0 | 2 | 3 | 10 | 0 | 10 | 12 | 9 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 8 | 2 | 1 |
| November | 8.1 | NW. | 33 | SE. | 0 | 3 | 4 | 2 | 6 | 1 | 1 | 3 | 10 | 0 | 4 | 14 | 12 | 11 | 9 | 9 | 0 | 0 | 6 | 0 | 20 | 1 | 0 |
| December | 9.8 | NW. | 31 | NW. | 0 | 1 | 3 | 4 | 1 | 0 | 1 | 6 | 15 | 0 | 7 | 6 | 18 | 12 | 9 | 10 | 0 | 0 | 26 | 0 | 30 | 0 | 0 |
| Year | 8.6 | NW. | 58 | NW. | 7 | 26 | 46 | 57 | 49 | 17 | 44 | 45 | 80 | 1 | 78 | 159 | 128 | 115 | 87 | 35 | 2 | 6 | 67 | 20 | 167 | 49 | 2 |

YELLOWSTONE PARK, WYO.

[H=6,200 ft.; $h_t$=11 ft.; $h_p$=4 ft.; $h_a$=48 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 12.1 | S. | 40 | SW. | 1 | 5 | 0 | 2 | 4 | 24 | 23 | 0 | 3 | 1 | 1 | 6 | 24 | 21 | 16 | 16 | 0 | 0 | 13 | 0 | 26 | 0 | 0 |
| February | 9.6 | S. | 30 | SW. | 0 | 3 | 0 | 0 | 6 | 14 | 24 | 5 | 4 | 0 | 1 | 7 | 20 | 10 | 6 | 10 | 0 | 0 | 18 | 0 | 28 | 0 | 0 |
| March | 7.6 | SW. | 30 | SW. | 0 | 5 | 0 | 0 | 2 | 14 | 20 | 8 | 13 | 0 | 5 | 13 | 13 | 12 | 5 | 12 | 0 | 0 | 5 | 0 | 30 | 0 | 0 |
| April | 8.4 | NW. | 31 | NW. | 0 | 6 | 1 | 0 | 0 | 10 | 17 | 4 | 22 | 0 | 5 | 3 | 22 | 11 | 7 | 9 | 0 | 0 | 3 | 0 | 28 | 0 | 0 |
| May | 7.8 | SW. | 36 | NW. | 0 | 8 | 1 | 1 | 1 | 11 | 20 | 3 | 16 | 1 | 2 | 10 | 19 | 10 | 5 | 6 | 0 | 0 | 0 | 0 | 19 | 2 | 0 |
| June | 7.2 | SW. | 27 | SW. | 0 | 2 | 1 | 0 | 5 | 18 | 19 | 2 | 13 | 0 | 6 | 12 | 12 | 8 | 4 | 0 | 3 | 0 | 0 | 0 | 0 | 6 | 0 |
| July | 7.7 | SW. | 38 | SW. | 0 | 2 | 0 | 1 | 0 | 13 | 30 | 5 | 11 | 0 | 14 | 8 | 9 | 12 | 8 | 0 | 1 | 0 | 0 | 0 | 0 | 11 | 0 |
| August | 7.2 | SW. | 37 | W. | 0 | 2 | 3 | 2 | 0 | 18 | 25 | 2 | 10 | 0 | 14 | 11 | 6 | 8 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 0 |
| September | 6.5 | SW. | 37 | SW. | 0 | 4 | 4 | 0 | 2 | 13 | 24 | 4 | 8 | 1 | 8 | 9 | 13 | 12 | 8 | 1 | 0 | 1 | 0 | 0 | 5 | 7 | 0 |
| October | 7.5 | SW. | 30 | SW. | 0 | 2 | 3 | 0 | 2 | 17 | 25 | 6 | 7 | 0 | 6 | 14 | 11 | 7 | 4 | 1 | 1 | 0 | 0 | 0 | 19 | 1 | 0 |
| November | 8.6 | SW. | 34 | S. | 0 | 5 | 0 | 0 | 2 | 19 | 30 | 2 | 2 | 0 | 6 | 6 | 18 | 14 | 8 | 10 | 0 | 3 | 7 | 0 | 25 | 0 | 0 |
| December | 6.6 | S. | 29 | S. | 0 | 4 | 2 | 0 | 1 | 19 | 20 | 6 | 10 | 0 | 5 | 12 | 14 | 18 | 4 | 18 | 0 | 0 | 28 | 0 | 31 | 0 | 0 |
| Year | 8.1 | SW. | 40 | SW. | 1 | 48 | 15 | 6 | 25 | 190 | 277 | 47 | 119 | 3 | 73 | 111 | 181 | 143 | 81 | 83 | 5 | 4 | 74 | 0 | 212 | 36 | 0 |

YUMA, ARIZ.

[H=141 ft.; $h_t$=9 ft.; $h_p$=2 ft.; $h_a$=58 ft.]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 5.7 | NE. | 29 | N. | 0 | 11 | 20 | 6 | 7 | 5 | 3 | 4 | 6 | 0 | 26 | 4 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 7.1 | W. | 36 | W. | 0 | 12 | 10 | 2 | 2 | 8 | 4 | 12 | 6 | 0 | 22 | 4 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 7.5 | W. | 37 | NW. | 0 | 6 | 4 | 7 | 3 | 5 | 8 | 17 | 12 | 0 | 28 | 3 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 8.2 | W. | 37 | N. | 0 | 13 | 4 | 5 | 3 | 4 | 11 | 19 | 1 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 7.2 | W. | 26 | NW. | 0 | 6 | 0 | 2 | 0 | 2 | 20 | 25 | 7 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 0 |
| June | 6.4 | SW | 23 | SE. | 0 | 2 | 1 | 0 | 8 | 7 | 20 | 14 | 8 | 0 | 29 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 |
| July | 6.6 | SW. | 28 | SE. | 0 | 3 | 1 | 1 | 11 | 6 | 25 | 14 | 1 | 0 | 29 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 2 | 0 |
| August | 5.6 | S. | 27 | SE. | 0 | 2 | 8 | 4 | 9 | 12 | 15 | 10 | 2 | 0 | 22 | 6 | 3 | 7 | 7 | 0 | 0 | 0 | 0 | 29 | 0 | 6 | 0 |
| September | 4.7 | NE. | 32 | NE. | 0 | 6 | 14 | 10 | 5 | 5 | 8 | 10 | 2 | 0 | 28 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 29 | 0 | 2 | 0 |
| October | 4.8 | N. | 28 | N. | 0 | 13 | 14 | 2 | 0 | 2 | 12 | 9 | 10 | 0 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 0 |
| November | 6.1 | N. | 30 | N. | 0 | 21 | 8 | 5 | 4 | 2 | 4 | 5 | 11 | 0 | 26 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| December | 7.9 | N. | 32 | N. | 0 | 37 | 7 | 2 | 1 | 2 | 0 | 3 | 10 | 0 | 17 | 6 | 8 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 |
| Year | 6.5 | W. | 37 | NW. | 0 | 132 | 91 | 46 | 53 | 60 | 130 | 142 | 76 | 0 | 318 | 32 | 15 | 20 | 16 | 0 | 0 | 0 | 0 | 166 | 5 | 10 | 0 |

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# PART IV.

## MONTHLY AND ANNUAL MEAN TEMPERATURE AND ANNUAL EXTREMES OF TEMPERATURE, TOGETHER WITH THE DATES OF THE FIRST AND LAST KILLING FROSTS, 1909.

The monthly and annual averages given in the following tables are taken largely from the records of unpaid cooperating observers. The paid stations of the Weather Bureau are indicated by an asterisk (*). The records of cooperating observers are given as made; no attempt has been made to reduce them to a homogeneous system. Nearly all of the cooperating observers have standard instruments, and a great majority are now supplied with standard shelters. The hours of observation at the regular stations of the Weather Bureau have already been described; the observing hours at cooperating stations vary greatly. The letters "*a*" and "*b*" 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).

The absence of a letter indicates that the mean has been made as follows: $\frac{\text{Mean max.}+\text{mean min.}}{2}$

The small roman letters in the body of the tables indicate the number of days missing from the records—thus "c," indicates three days missing, etc.

The dates of last killing frost in spring and first in autumn are given at the right of the table. Many observers, however, do not report dates of frost, and still others do not distinguish between light and killing frost. The date of the last and the first occurrence of a minimum temperature of 32° has been used in many cases where no frost reports were made.

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MONTHLY AND ANNUAL MEAN TEMPERATURE, ANNUAL EXTREMES OF TEMPERATURE, AND DATES OF LAST KILLING FROST IN SPRING AND FIRST KILLING FROST IN AUTUMN, 1909.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. | | | Killing frost. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | Mean. | Extremes. | | Last in spring. | First in autumn. |
| | | | | | | | | | | | | | | Max. | Min. | | |
| *Alabama.* | | | | | | | | | | | | | | | | | |
| Albertville | 46.2 | 48.1 | 51.8 | 60.2 | 65.8 | 74.8 | 76.2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Apr. 9 | ..... |
| *Anniston | 48.4 | 49.4 | 53.6 | 61.4 | 67.0 | 76.6 | 77.6 | 78.8 | 73.4 | 61.4 | 59.0 | 39.0 | 62.1 | 97 | 9 | Mar. 26 | Oct. 25 |
| Ashville | 47.4 | 49.2 | 54.1 | 61.8 | 67.2 | 76.7 | 78.5 | 80.0 | 72.8 | b59.8 | d55.8 | 38.5 | 61.8 | 103 | 9 | Apr. 10 | Oct. 13 |
| Auburn | 52.2 | 52.3 | 57.4 | a64.2 | a70.1 | 78.6 | 80.2 | 81.0 | 76.6 | 66.0 | 61.6 | a42.2 | 65.2 | 101 | 10 | Mar. 15 | Nov. 19 |
| Bermuda | 53.7 | 53.0 | 60.3 | a64.9 | 69.8 | 78.4 | 80.8 | 81.2 | 76.9 | b65.4 | b60.3 | 44.4 | 65.8 | 100 | 14 | Mar. 16 | Nov. 19 |
| *Birmingham | 49.4 | 50.8 | 55.0 | 63.1 | 68.0 | 77.2 | 79.2 | 80.8 | 74.6 | 64.9 | 61.4 | 40.0 | 63.7 | 99 | 11 | Mar. 15 | Nov. 19 |
| Boligee | 50.6 | 53.1 | 57.6 | ..... | a70.5 | 81.6 | 83.2 | ..... | ..... | 63.7 | ..... | ..... | ..... | ..... | ..... | Mar. 16 | Oct. 13 |
| Camp Hill | ..... | 52.5 | 57.2 | 64.1 | 68.0 | 77.8 | a79.2 | a80.1 | 76.0 | 65.1 | 60.7 | 42.2 | ..... | 99 | ..... | Mar. 16 | Nov. 18 |
| Citronelle | 57.0 | 56.8 | 63.6 | 67.6 | 71.2 | 79.0 | 81.6 | 81.2 | 77.0 | 68.4 | 63.4 | 47.0 | 67.8 | 98 | 16 | Feb. 17 | Nov. 19 |
| *Clanton | a50.2 | 50.0 | 56.3 | 63.0 | 67.8 | 78.0 | 80.1 | 81.0 | 75.6 | 63.2 | 58.9 | a41.6 | 63.8 | 101 | 13 | Mar. 16 | Oct. 25 |
| *Cordova | b48.6 | 49.8 | 54.0 | 60.8 | 67.2 | 76.8 | 79.3 | 80.1 | 74.3 | 61.4 | 57.6 | b39.7 | 62.5 | 99 | 8 | Apr. 11 | Oct. 13 |
| Cullman | 46.0 | 48.3 | 52.3 | 60.8 | 65.8 | 75.7 | 77.9 | 79.0 | 72.0 | 60.2 | 58.0 | 37.1 | 61.1 | 97 | 8 | May 2 | Oct. 13 |
| Daphne | d57.4 | 56.6 | b62.6 | b66.6 | b71.2 | 78.8 | a81.6 | c81.7 | 77.0 | c69.8 | 65.1 | b48.9 | 68.1 | 100 | 17 | Feb. 17 | Dec. 8 |
| *Decatur | 44.8 | 45.6 | 51.2 | 60.1 | 67.8 | 77.1 | 79.5 | 79.8 | 71.4 | 58.8 | c56.9 | c34.4 | 60.6 | 101 | 9 | Mar. 27 | Oct. 13 |
| *Eufaula | 50.4 | 48.8 | 55.4 | 62.6 | 69.0 | 77.8 | 78.0 | 79.1 | 74.5 | 61.8 | 57.4 | 42.2 | 63.1 | 95 | 13 | Mar. 16 | Oct. 25 |
| *Evergreen | ..... | 53.6 | 60.6 | 64.6 | 70.2 | 79.1 | 81.0 | 81.8 | 77.3 | 66.2 | 65.4 | 46.3 | ..... | 101 | ..... | Mar. 16 | Nov. 18 |
| Fayette | ..... | b54.2 | 55.2 | 63.6 | c67.6 | a77.9 | c80.8 | c81.6 | ..... | ..... | ..... | ..... | ..... | 101 | ..... | Mar. 26 | ..... |
| Flomaton | 54.1 | 55.0 | 61.5 | 68.3 | 71.8 | 81.1 | 82.0 | 82.9 | 76.6 | 67.4 | 61.6 | 46.0 | 67.4 | 108 | 16 | Feb. 25 | Nov. 19 |
| *Florence | 45.4 | 49.0 | 53.6 | 62.3 | 67.4 | 77.0 | 79.0 | 81.2 | 72.8 | 61.1 | 59.4 | 37.3 | 62.1 | 102 | 9 | May 2 | Oct. 13 |
| *Fort Deposit | 50.7 | 51.4 | 58.2 | 66.0 | 71.0 | 79.4 | 82.0 | 81.4 | 76.3 | 65.3 | a60.8 | ..... | ..... | 99 | ..... | Mar. 15 | Nov. 19 |
| *Gadsden | 48.3 | 50.7 | 55.3 | 62.2 | 67.6 | 77.0 | 79.1 | 79.8 | 73.8 | 62.6 | 58.9 | 39.7 | 62.9 | 99 | 11 | Mar. 26 | Oct. 25 |
| *Goodwater | 53.5 | 52.2 | ..... | 64.8 | 67.8 | 77.5 | 79.0 | b79.5 | 75.8 | 64.2 | 57.0 | 43.6 | ..... | 98 | 10 | ..... | Oct. 25 |
| *Greensboro | 50.6 | 52.6 | 57.3 | 64.8 | 69.9 | 79.4 | 82.0 | 82.0 | 76.8 | 65.8 | 60.8 | 42.5 | 65.4 | 98 | 15 | Mar. 14 | Nov. 19 |
| Hamilton | c44.6 | 48.8 | 54.0 | d63.0 | 66.8 | 78.3 | 80.8 | b82.8 | a75.0 | 63.7 | a60.0 | b39.2 | 63.1 | 104 | 9 | May 2 | Oct. 13 |
| Highland Home | 54.8 | 54.2 | 60.0 | 64.6 | 70.0 | 78.2 | 79.9 | 81.2 | 75.6 | a67.9 | ..... | 44.4 | ..... | 98 | 14 | Feb. 17 | ..... |
| *Livingston | 49.5 | 49.0 | 55.6 | 62.8 | 69.2 | 79.6 | 82.2 | 81.6 | 75.8 | 62.2 | 57.4 | 39.3 | 63.7 | 97 | 13 | Mar. 16 | Oct. 25 |
| *Lock No. 4 | 48.9 | 50.1 | 55.0 | 62.4 | 68.4 | 77.4 | 79.7 | 80.4 | 73.8 | 62.0 | 58.2 | 39.4 | 63.0 | 101 | 10 | Mar. 26 | Oct. 25 |
| Lucy | a57.6 | 54.4 | a63.0 | 66.2 | a72.4 | 79.5 | 80.6 | 81.6 | a77.5 | b65.6 | 60.9 | 48.2 | 67.3 | 98 | 12 | Apr. 10 | Oct. 25 |
| Madison | 45.4 | 48.4 | 52.2 | 60.2 | 66.2 | 75.6 | 78.8 | 80.6 | 72.7 | 60.5 | 58.6 | 36.2 | 61.3 | 102 | 6 | May 2 | Oct. 13 |
| Maple Grove | 45.2 | 46.6 | b51.6 | 61.0 | 67.8 | a77.2 | 78.6 | 79.8 | 72.6 | 61.2 | 55.9 | 37.2 | 61.2 | 101 | 10 | May 1 | Oct. 13 |
| *Mobile | 56.5 | 54.8 | 62.7 | 66.4 | 71.4 | 80.3 | 82.7 | 82.6 | 78.8 | 69.8 | 64.6 | 48.6 | 68.3 | 101 | 22 | Feb. 17 | Dec. 21 |
| *Montgomery | 52.1 | 52.6 | 58.2 | 64.6 | 70.2 | 79.2 | 81.0 | 81.6 | 76.6 | 65.5 | 61.5 | 43.5 | 65.6 | 98 | 16 | Feb. 17 | Nov. 19 |
| Newbern | 52.8 | 53.0 | 58.0 | 64.2 | 70.0 | 79.5 | 81.8 | 83.2 | 77.6 | 66.2 | 62.6 | 42.4 | 65.9 | 103 | 13 | Mar. 16 | Oct. 25 |
| Oneonta | 45.6 | 47.4 | 51.4 | 59.9 | 65.8 | 75.0 | 77.0 | 80.9 | 71.7 | 59.7 | 56.6 | 35.6 | 60.6 | 96 | 6 | May 2 | Oct. 13 |
| *Opelika | 50.8 | 50.9 | 56.2 | 64.0 | 69.6 | 78.4 | 79.2 | 79.6 | 75.1 | 64.7 | 60.8 | 41.6 | 64.2 | 95 | 10 | Mar. 31 | Oct. 25 |
| *Ozark | 54.2 | 53.4 | 59.8 | 65.0 | 71.0 | 79.2 | 80.2 | 81.2 | 76.7 | 65.0 | 62.4 | ..... | ..... | 98 | ..... | Feb. 26 | Oct. 25 |
| Prattville | 51.6 | 52.0 | 58.0 | 63.8 | a69.6 | b78.9 | b80.4 | b81.2 | 76.0 | 63.2 | 58.8 | 42.2 | 64.6 | 100 | 11 | Mar. 16 | Oct. 26 |
| Pushmataha | 50.5 | 50.9 | b58.1 | 63.8 | 69.6 | 79.8 | 82.9 | 82.8 | 77.2 | 63.4 | 57.4 | 40.4 | 64.7 | 108 | 13 | Mar. 16 | Oct. 25 |
| *Riverton | 44.4 | 46.4 | 51.6 | 61.0 | 65.9 | 75.4 | 78.8 | 80.1 | 70.7 | 59.7 | 56.2 | 33.5 | 60.3 | 103 | 6 | May 2 | Oct. 13 |
| Scottsboro | a47.2 | b48.6 | b53.0 | b60.1 | b65.4 | b74.6 | a76.1 | a77.8 | 71.0 | b59.0 | b56.0 | c36.8 | 60.5 | 97 | 6 | May 3 | Oct. 13 |
| *Selma | 50.8 | 50.0 | 56.8 | 64.4 | 70.0 | 79.6 | 79.6 | 82.1 | 77.1 | 63.9 | 59.0 | 40.4 | 64.5 | 102 | 11 | Mar. 17 | Oct. 25 |
| Spring Hill | c57.6 | d56.4 | b63.4 | c67.0 | a71.4 | ..... | ..... | a82.0 | ..... | 69.8 | 65.2 | 48.2 | ..... | ..... | 19 | Feb. 17 | Dec. 8 |
| Talladega | 50.1 | 49.8 | 55.4 | 62.9 | 67.4 | 79.4 | 78.6 | 78.7 | c74.5 | c82.4 | 59.0 | e41.4 | 63.3 | 99 | 8 | Apr. 11 | Oct. 13 |
| *Thomasville | 149.7 | 52.8 | 59.2 | 64.3 | 69.4 | 78.2 | 81.0 | 81.2 | 75.9 | 64.1 | 59.4 | 41.7 | 64.7 | 103 | 13 | Mar. 17 | Oct. 25 |
| Troy | 54.6 | 54.2 | 59.8 | 64.8 | 70.0 | 77.9 | 79.0 | 80.0 | 73.6 | 67.2 | 63.5 | 45.5 | 65.8 | 97 | 10 | Feb. 25 | Dec. 8 |
| *Tuscaloosa | 48.0 | ..... | d54.7 | 62.8 | 69.4 | 79.9 | 82.5 | 82.9 | 76.6 | 63.4 | 58.1 | 39.3 | ..... | 102 | 12 | Mar. 17 | Nov. 18 |
| *Tuscumbia | 44.0 | 46.2 | 51.1 | 60.3 | 67.7 | 77.7 | 79.8 | 80.8 | 71.9 | 59.4 | 54.9 | 33.2 | 60.6 | 99 | 10 | Mar. 17 | Oct. 13 |
| Tuskegee | 54.8 | 53.5 | 58.9 | 65.6 | 70.6 | 80.0 | 81.6 | 83.0 | 77.8 | 67.3 | 63.0 | 44.8 | 66.7 | 101 | 14 | Feb. 25 | Dec. 8 |
| *Union Springs | 52.2 | 51.3 | 57.8 | 64.6 | 69.6 | 78.6 | 80.4 | 81.4 | 76.4 | 64.3 | 60.2 | 42.7 | 65.0 | 95 | 14 | Feb. 25 | Nov. 24 |
| Uniontown | 51.6 | 52.9 | 58.6 | 64.4 | 69.6 | b79.4 | a82.0 | 81.0 | 76.8 | 65.8 | 61.4 | 42.9 | 65.5 | 100 | 14 | Mar. 15 | Oct. 25 |
| Valley Head | 45.4 | 44.6 | 49.5 | 57.6 | 65.8 | 75.4 | 77.5 | ..... | c70.8 | ..... | ..... | 35.6 | ..... | ..... | 3 | May 2 | ..... |
| *Wetumpka | 54.4 | 52.1 | 58.8 | 64.2 | 70.7 | 79.0 | 81.0 | 82.0 | 78.0 | 65.5 | 62.2 | 44.4 | 66.0 | 100 | 13 | Feb. 27 | Oct. 25 |
| *Alaska.* | | | | | | | | | | | | | | | | | |
| Allachaket | −38.1 | −23.0 | 15.4 | 11.7 | 40.6 | 55.6 | 59.7 | 50.4 | 35.0 | 11.0 | −19.0 | −21.2 | 14.8 | 84 | −64 | May 29 | Aug. 6 |
| Calder | ..... | ..... | 35.6 | 37.7 | 45.4 | 50.8 | 56.6 | 52.0 | 50.4 | 42.8 | 29.5 | 26.2 | ..... | 72 | ..... | May 23 | Sept. 8 |
| Candle | 5.3 | − 6.6 | −14.1 | 15.0 | 34.0 | 44.9 | 53.8 | 49.8 | 36.6 | 22.2 | 12.5 | − 6.3 | 20.6 | 81 | −48 | (1) | (1) |
| Chatanika River | ..... | ..... | ..... | 24.0 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Circle City | ..... | −29.0 | e−1.2 | ..... | 41.3 | ..... | ..... | e50.8 | ..... | ..... | ..... | ..... | ..... | 81 | −61 | May 30 | Aug. 16 |
| Coal Harbor | 28.2 | 30.8 | 24.7 | ..... | 40.2 | 48.2 | 54.0 | ..... | 47.4 | 43.4 | ..... | ..... | ..... | 80 | 1 | June 2 | Sept. 30 |
| Copper Center | 26.4 | ..... | ..... | ..... | 45.4 | ..... | 58.8 | 54.8 | 42.6 | 24.6 | − 1.4 | 4.2 | ..... | ..... | −60 | (1) | (1) |
| Cordova | ..... | ..... | ..... | ..... | 45.8 | 50.4 | 56.6 | 54.8 | 47.0 | 39.1 | 27.0 | 34.6 | ..... | 74 | ..... | ..... | Sept. 25 |
| Dutch Harbor | 31.8 | 34.1 | 30.0 | 37.0 | 39.0 | 46.0 | 52.1 | 52.7 | 44.0 | 50.4 | 36.6 | 30.6 | 40.4 | 74 | 14 | May 19 | Aug. 28 |
| *Eagle | ..... | ..... | ..... | ..... | ..... | ..... | 59.2 | 50.6 | 37.8 | 21.6 | − 8.2 | − 3.3 | ..... | ..... | ..... | ..... | ..... |
| Fairbanks | −26.2 | −10.5 | 10.2 | 24.0 | 47.1 | 57.2 | 60.8 | ..... | 40.0 | 21.6 | 3.1 | 4.6 | ..... | 82 | −54 | May 15 | Sept. 1 |
| Fort Egbert | −40.2 | −18.4 | 8.4 | 19.6 | 42.2 | 62.4 | 59.9 | 52.1 | 38.0 | 20.7 | −11.0 | ..... | ..... | 82 | −69 | June 10 | Aug. 21 |
| Fort Gibbon | −20.2 | −12.4 | 2.1 | 19.8 | 44.0 | 55.4 | 59.8 | 51.8 | 36.7 | 15.7 | − 9.4 | −13.3 | 19.2 | 82 | −57 | May 27 | Aug. 6 |
| Fort Liscum | 10.8 | 16.1 | 26.8 | 33.6 | 41.4 | 47.8 | 54.6 | 50.6 | 43.8 | 33.2 | 23.0 | 25.0 | 33.9 | 79 | −12 | May 21 | Sept. 22 |
| Fortmann Hatchery | 14.0 | 23.6 | 35.2 | 37.4 | 46.1 | 52.8 | 54.8 | 53.3 | 50.8 | 43.0 | 29.9 | 26.0 | 38.9 | 77 | −23 | June 5 | Oct. 9 |
| Fort Yukon | −38.2 | −25.0 | 3.0 | 16.5 | 43.4 | 57.2 | 61.6 | 52.0 | ..... | ..... | ..... | ..... | ..... | 83 | −64 | May 29 | Aug. 8 |
| Gulkana | ..... | − 6.7 | ..... | ..... | ..... | ..... | ..... | 63.0 | 42.7 | 25.2 | ..... | ..... | ..... | ..... | ..... | ..... | Sept. 20 |
| Holy Cross Mission | − 9.1 | − 4.0 | 2.4 | 26.8 | 43.3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Iron Creek | ..... | ..... | ..... | ..... | 35.8 | 48.8 | ..... | ..... | ..... | 23.4 | 1.2 | ..... | ..... | ..... | ..... | ..... | ..... |
| Juneau | 14.0 | 25.0 | 39.1 | 40.6 | 48.4 | ..... | 60.6 | 57.2 | 50.9 | ..... | ..... | ..... | ..... | 78 | ..... | ..... | ..... |
| Ketchumstock | −39.6 | −25.3 | 16.6 | 15.3 | 41.8 | 50.3 | 55.5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | (1) | (1) |
| Killisnoo | 16.5 | 24.7 | 35.4 | ..... | 47.1 | 60.8 | 53.1 | ..... | 47.1 | ..... | 26.0 | 9.1 | ..... | 81 | ..... | ..... | ..... |
| Klukwan | − 3.0 | 9.6 | 31.2 | 36.5 | 47.2 | 52.2 | 54.8 | 52.3 | 45.7 | 36.2 | 14.3 | 14.7 | 32.6 | 81 | −27 | June 25 | Sept. 24 |
| Kodiak | ..... | b29.0 | 28.7 | 35.0 | 41.1 | 47.2 | 52.8 | 54.8 | 46.1 | 37.6 | 30.9 | ..... | ..... | 76 | ..... | May 31 | Sept. 21 |
| Nizina | ..... | ..... | ..... | ..... | 49.2 | 50.4 | 54.6 | 52.6 | ..... | ..... | ..... | ..... | ..... | 76 | ..... | June 11 | ..... |

[1] Frosts in all months.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *Alaska*—Contd. | | | | | | | | | | | | | | | | | |
| *Nome | − 0.4 | 1.4 | − 2.6 | 19.6 | 35.0 | 42.3 | 52.6 | 50.4 | 40.4 | 27.6 | 16.3 | 1.5 | ..... | 70 | −33 | ..... | ..... |
| Northfork | ..... | 29.9 | ..... | ..... | 41.2 | ..... | ..... | ..... | 35.6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Oro Fino | − 3.4 | − 3.0 | −11.7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Rampart | −25.8 | −16.2 | 5.4 | 16.6 | 43.9 | 57.8 | 61.6 | 55.0 | 38.8 | 18.4 | −10.8 | −11.7 | 19.4 | 90 | −56 | May 29 | Aug. 24 |
| Seward | 13.9 | 22.2 | 30.8 | 36.5 | 43.4 | 48.8 | 55.1 | 55.0 | 46.9 | 37.2 | 27.7 | 25.9 | 37.0 | 84 | − 5 | May 13 | Sept. 22 |
| *Sitka | 22.8 | 30.4 | 37.2 | 39.0 | 46.4 | 51.9 | 54.6 | 53.8 | 50.6 | 44.2 | 32.4 | 33.6 | 41.4 | 76 | 2 | May 14 | Oct. 8 |
| Skagway | 4.8 | 16.9 | 33.7 | 38.7 | 49.1 | 55.0 | 55.4 | ..... | 49.5 | 40.9 | ..... | ..... | ..... | 84 | ..... | June 1 | Oct. 9 |
| Sunrise | − 0.7 | 10.6 | 24.9 | 33.1 | 43.6 | 48.1 | 55.0 | 52.4 | 42.5 | 30.0 | 13.6 | 15.8 | 30.7 | 78 | −25 | June 21 | Sept. 14 |
| *Tanana | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 34.5 | 18.0 | −8.6 | −11.5 | ..... | ..... | ..... | ..... | ..... |
| Tyonok | 4.4 | 10.9 | 26.0 | 34.0 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *Valdez | ..... | 18.4 | 30.2 | ..... | ..... | ..... | ..... | ..... | ..... | 34.7 | 26.0 | 24.4 | ..... | ..... | ..... | ..... | ..... |
| Wrangell | 17.2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *Arizona.* | | | | | | | | | | | | | | | | | |
| Allaires Ranch | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | May 1 | Oct. 10 |
| Arizona Canal Dam | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 87.9 | 82.0 | 72.1 | 61.0 | 49.8 | ..... | ..... | ..... | Mar. 7 | Dec. 4 |
| Aztec | 61.0 | 55.2 | 56.8 | 70.7 | 77.6 | 90.6 | 93.4 | 91.6 | 83.2 | 71.4 | 57.6 | 46.0 | 71.3 | 115 | 20 | Mar. 8 | Nov. 30 |
| *Benson | 52.0 | 48.3 | 51.1 | 61.0 | 66.5 | 78.2 | 82.2 | 78.4 | 73.0 | 64.4 | 54.4 | 45.0 | 62.9 | 106 | 11 | Apr. 7 | Oct. 31 |
| Bisbee | 51.0 | 45.8 | 47.6 | 57.6 | 62.8 | 72.8 | 73.4 | 69.8 | 67.2 | 62.0 | 53.6 | 43.2 | 58.9 | 94 | 21 | Apr. 6 | Nov. 16 |
| Bonita | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Apr. 15 | Oct. 31 |
| Bowie | 50.4 | 48.0 | 50.7 | 61.0 | 67.4 | 80.7 | 83.4 | 79.4 | 73.4 | 66.0 | 54.8 | 41.4 | 63.0 | 112 | 13 | Apr. 7 | Nov. 17 |
| Buckeye | 54.0 | 53.2 | 56.2 | 65.0 | 70.0 | 82.0 | 88.3 | 89.0 | 81.3 | 69.2 | 56.6 | 47.5 | 67.7 | 112 | 19 | Apr. 6 | Nov. 1 |
| Casa Grande | 53.6 | 49.9 | 61.2 | 72.2 | 75.8 | 80.3 | 87.7 | ..... | ..... | ..... | ..... | 47.2 | ..... | 114 | ..... | Feb. 25 | Nov. 16 |
| Casagrande Ruins | 54.6 | 53.4 | 56.2 | 65.7 | 71.0 | 83.2 | 92.0 | 87.8 | 82.2 | 69.6 | 58.0 | 48.0 | 68.5 | 113 | 16 | Apr. 7 | Nov. 16 |
| Cave Creek | 55.1 | 51.7 | 55.1 | 65.2 | 68.5 | 79.6 | 86.0 | 84.4 | 77.8 | 67.7 | 57.4 | 46.8 | 66.3 | 112 | 18 | Feb. 24 | Nov. 15 |
| Chin Lee | 37.2 | 35.6 | 38.9 | 47.9 | 54.9 | 69.2 | 74.9 | 72.8 | 62.8 | 52.4 | 41.2 | 21.3 | 50.8 | 101 | −19 | May 31 | Oct. 8 |
| Chlarson's Mill | 30.0 | 24.6 | 31.2 | 38.9 | 44.8 | 64.0 | 67.8 | 63.7 | 59.6 | 55.2 | 44.6 | 30.5 | 46.2 | 84 | − 3 | May 25 | Oct. 9 |
| Clifton | 51.8 | 50.3 | 53.4 | 65.0 | 71.4 | 85.0 | 86.8 | 83.0 | 77.4 | 67.5 | 55.2 | 42.9 | 65.8 | 112 | 23 | Mar. 24 | Nov. 17 |
| Cline | 50.6 | 48.6 | 52.8 | 60.8 | 66.2 | 77.0 | 84.4 | 82.2 | 74.6 | 65.0 | 54.2 | 43.8 | 63.4 | 108 | 19 | Apr. 6 | Nov. 1 |
| Cochise | 58.0 | ..... | ..... | ..... | ..... | 74.9 | 82.5 | 77.9 | 70.1 | 58.6 | 55.6 | ..... | ..... | 106 | ..... | ..... | Oct. 7 |
| Columbia | 56.4 | 53.8 | 55.4 | 67.5 | 71.0 | 80.0 | 88.6 | 86.9 | 83.1 | 74.6 | 63.0 | 47.4 | 69.5 | 112 | 24 | Mar. 12 | Dec. 4 |
| Congress | 52.4 | 49.0 | 51.9 | 63.4 | 69.0 | 82.2 | 84.6 | 80.1 | 76.4 | 69.6 | 57.2 | 43.8 | 65.0 | 104 | 26 | Mar. 24 | Dec. 4 |
| Dos Cabezos | 47.2 | 42.8 | 46.2 | 54.9 | 61.4 | 75.0 | 79.1 | 74.3 | 68.2 | 58.2 | 51.5 | 40.6 | 58.3 | 109 | 9 | May 24 | Oct. 31 |
| Douglas | 51.2 | 48.0 | 51.6 | 61.2 | 66.0 | 77.9 | 80.6 | 78.4 | 74.6 | 63.3 | 53.6 | 44.8 | 62.6 | 109 | 6 | Apr. 7 | Nov. 1 |
| Dudleyville | 51.8 | 50.2 | 51.8 | 61.6 | 67.1 | 78.0 | 83.1 | 80.6 | 73.8 | 66.0 | ..... | ..... | ..... | 105 | ..... | Apr. 6 | Dec. 4 |
| *Flagstaff | 33.0 | 27.4 | 32.3 | 42.4 | 47.1 | 58.8 | 64.6 | 62.8 | 55.6 | 46.7 | 35.1 | 22.1 | 44.0 | 91 | −12 | June 9 | Sept. 22 |
| Flagstaff A | 32.0 | 28.0 | 32.8 | 40.2 | 46.8 | 58.4 | 62.6 | 60.2 | ..... | 45.6 | 34.3 | 24.0 | ..... | 93 | −16 | June 9 | Sept. 13 |
| Flagstaff B | ..... | ..... | ..... | ..... | ..... | 57.4 | 63.5 | 61.0 | 53.8 | 44.0 | 34.1 | 20.0 | ..... | 91 | −22 | June 22 | Sept. 13 |
| Florence | 55.5 | 54.0 | 56.8 | 67.4 | 71.2 | 83.6 | 90.3 | 88.9 | 81.2 | 69.3 | 57.7 | 42.5 | 68.2 | 114 | 19 | Feb. 8 | Nov. 16 |
| Fort Apache | 39.2 | 35.6 | 38.7 | 45.0 | 57.9 | 69.7 | 75.2 | 72.0 | 65.7 | 56.8 | 47.0 | 34.2 | 53.1 | 104 | − 2 | May 15 | Oct. 9 |
| Fort Huachuca | 46.8 | 45.9 | 52.4 | 62.6 | 74.4 | 82.8 | 81.9 | 76.6 | 72.6 | 66.2 | 56.8 | 44.4 | 63.5 | 106 | 20 | Apr. 7 | Nov. 16 |
| Fort Mohave | ..... | ..... | ..... | 70.8 | 76.6 | 87.4 | 91.8 | 94.0 | 81.2 | ..... | 60.6 | ..... | ..... | 116 | ..... | ..... | Nov. 14 |
| Gilabend | 57.4 | 55.5 | 59.0 | 70.4 | 74.6 | 86.6 | 93.9 | 88.8 | 84.2 | 72.4 | 60.8 | 49.4 | 71.1 | 117 | 22 | Mar. 12 | Nov. 16 |
| Globe | 49.4 | 47.6 | 49.7 | 59.6 | 66.3 | 78.2 | 82.6 | 79.4 | 73.1 | 65.3 | 54.6 | 41.4 | 62.3 | 106 | 18 | Apr. 7 | Nov. 16 |
| Grand Canyon | 34.2 | 28.4 | 31.6 | 41.4 | ..... | 63.2 | 65.3 | ..... | 57.4 | 46.2 | 35.2 | 21.0 | ..... | 88 | −10 | June 12 | Sept. 26 |
| Grand Canyon A | 43.4 | 42.8 | 49.8 | 60.0 | 67.8 | 80.1 | 82.8 | 77.8 | 72.0 | 60.3 | 49.0 | 31.2 | 59.8 | 106 | 8 | Mar. 24 | Oct. 21 |
| Greer | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Sept. 12 |
| Holbrook | 41.8 | 38.6 | 42.2 | 50.4 | 57.7 | 69.6 | 76.4 | 74.8 | 65.6 | 55.0 | 43.5 | 31.0 | 53.9 | 103 | − 1 | May 30 | Oct. 9 |
| Intake | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | May 1 | Nov. 16 |
| *Jerome | 45.2 | 44.0 | 46.7 | 58.2 | 64.2 | 77.0 | 78.6 | 72.3 | 70.0 | 65.0 | 53.2 | 36.2 | 59.2 | 102 | 17 | Apr. 9 | Nov. 15 |
| Keams Canyon | 36.8 | 34.5 | 38.0 | 47.0 | 53.0 | 65.2 | 71.2 | 69.2 | 61.1 | 51.8 | 41.4 | 22.8 | 49.3 | 95 | − 8 | May 30 | Oct. 8 |
| Kingman | 46.4 | 45.2 | 47.4 | 57.8 | 62.8 | ..... | ..... | 79.4 | 71.3 | 61.2 | 50.5 | 36.2 | ..... | ..... | 14 | May 14 | Oct. 4 |
| Maricopa | 55.0 | 53.4 | 57.2 | 68.4 | 74.4 | 87.0 | 87.6 | 90.0 | 83.6 | 70.1 | 59.4 | 47.0 | 69.4 | 118 | 19 | Mar. 12 | Nov. 13 |
| Mesa | 53.1 | 51.8 | 57.1 | 67.3 | 72.8 | 85.6 | 89.2 | 87.6 | 82.8 | 71.2 | 59.0 | 48.1 | 68.8 | 114 | 21 | Mar. 7 | Nov. 15 |
| Mohawk Summit | 60.3 | 63.1 | 73.0 | 82.2 | 79.8 | 91.1 | 98.2 | 89.0 | 86.6 | 77.0 | 64.8 | 46.3 | 76.0 | 121 | 28 | ..... | Dec. 4 |
| Natural Bridge | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | May 22 | Nov. 13 |
| Nogales | ..... | ..... | ..... | ..... | ..... | 77.8 | 80.9 | 77.7 | 72.0 | 64.2 | 55.7 | 45.9 | ..... | 106 | ..... | ..... | Oct. 31 |
| Oracle | 50.1 | 48.6 | 47.4 | 59.7 | 65.2 | 78.8 | 80.2 | 77.4 | 72.2 | 65.0 | 54.4 | ..... | ..... | 100 | ..... | Mar. 14 | Nov. 16 |
| Paradise | 46.8 | 43.1 | 44.8 | 55.4 | 59.8 | 71.7 | 74.7 | 70.0 | 64.9 | 59.0 | 49.5 | 38.6 | 56.5 | 100 | 2 | May 20 | Oct. 9 |
| Parker | ..... | 54.2 | ..... | 70.4 | 71.0 | 86.5 | 91.0 | 89.1 | 82.0 | ..... | ..... | 48.3 | ..... | 116 | ..... | Feb. 15 | Nov. 16 |
| Payson | ..... | ..... | ..... | 51.8 | 56.3 | 66.8 | 72.6 | 71.6 | 65.6 | 55.9 | 47.8 | 34.7 | ..... | 102 | 4 | May 25 | Oct. 9 |
| *Phoenix | 55.6 | 53.5 | 56.8 | 67.0 | 73.0 | 84.8 | 88.7 | 86.7 | 81.0 | 71.1 | 59.2 | 48.1 | 68.8 | 110 | 25 | Feb. 24 | Nov. 16 |
| Phoenix A | 54.9 | 52.8 | 56.6 | 65.6 | 72.0 | 83.1 | 88.2 | 86.6 | 79.2 | 69.6 | 58.2 | 47.0 | 67.8 | 112 | 22 | Mar. 13 | Nov. 16 |
| Pinal Ranch | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Mar. 30 | Oct. 9 |
| Pinto | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | May. 27 | Oct. 6 |
| Prescott | 40.8 | 38.2 | 40.0 | 49.2 | 55.0 | 67.4 | 71.4 | 69.3 | 62.9 | 53.6 | 46.2 | 32.6 | 52.2 | 97 | 1 | May 30 | Oct. 5 |
| Quartzsite | 62.0 | 54.5 | 55.8 | 72.2 | 78.4 | 88.9 | 92.5 | 88.9 | 82.4 | 70.2 | 56.9 | 45.2 | 70.7 | 119 | 17 | Mar. 13 | Nov. 17 |
| Redrock | 55.3 | 54.0 | 57.2 | 69.4 | 73.9 | 86.6 | 91.0 | 88.2 | 81.2 | 71.2 | 59.8 | 50.1 | 69.8 | 114 | 26 | Mar. 13 | Nov. 16 |
| Roosevelt | 49.5 | 49.4 | 56.6 | 66.0 | 74.7 | 87.6 | 90.0 | 85.6 | 80.1 | 70.6 | 58.4 | 46.0 | 67.9 | 112 | 27 | Feb. 24 | Dec. 4 |
| Sacaton | 55.0 | 54.1 | 56.6 | 65.8 | 71.8 | 83.7 | 88.1 | 87.7 | 81.4 | 71.4 | 58.2 | 48.2 | 68.5 | 111 | 17 | Mar. 13 | Nov. 1 |
| St. Johns | ..... | ..... | ..... | 50.4 | 57.7 | 71.3 | 75.8 | 72.2 | 63.6 | 53.9 | 45.2 | 28.6 | ..... | 102 | ..... | May 15 | Oct. 9 |
| St. Michaels | 34.4 | 30.8 | 36.4 | 44.6 | 51.0 | 65.6 | 72.4 | 67.6 | 58.1 | 48.5 | 37.6 | 18.6 | 47.1 | 97 | −19 | May 26 | Oct. 8 |
| Salome | 50.6 | 48.9 | 52.6 | 62.8 | 67.8 | 80.9 | 86.8 | 83.9 | 75.9 | 65.1 | 55.8 | 41.4 | 64.4 | 116 | 18 | Mar. 13 | Nov. 16 |
| *San Carlos | 49.7 | 48.9 | 51.3 | 60.0 | 67.0 | 80.1 | 83.0 | 82.0 | 76.0 | 64.6 | 53.8 | 42.6 | 63.4 | 113 | 13 | Apr. 7 | Oct. 30 |
| San Simon | 51.4 | 48.9 | 52.2 | 61.4 | 67.7 | 82.1 | 84.5 | 80.9 | 75.6 | 67.6 | 53.3 | 41.7 | 63.9 | 111 | 15 | Apr. 7 | Nov. 15 |
| *Seligman | 40.0 | 38.5 | 40.5 | 50.2 | 56.6 | 68.0 | 72.5 | 70.6 | 56.8 | 57.6 | ..... | ..... | ..... | 98 | ..... | May 30 | Sept. 8 |
| Sentinel | 57.2 | 55.4 | 59.0 | 72.4 | 76.0 | 87.6 | 92.3 | 91.6 | 82.4 | 72.6 | 60.6 | 48.4 | 71.3 | 115 | 22 | Mar. 12 | Dec. 4 |
| Show Low | 40.2 | 35.6 | 38.9 | 47.4 | 52.4 | ..... | 71.0 | 67.6 | 63.0 | 55.8 | 48.2 | ..... | ..... | ..... | ..... | May 25 | Sept. 8 |
| Silverbell | 57.6 | 54.8 | 54.5 | 68.2 | 74.0 | 86.9 | 86.6 | 82.6 | 79.0 | 73.6 | 63.1 | 50.4 | 69.3 | 107 | 29 | Feb. 23 | Dec. 5 |
| Supai | 47.4 | 45.8 | 51.6 | 60.9 | 68.4 | 79.9 | 81.6 | 79.0 | 73.0 | 63.9 | 50.7 | ..... | ..... | 106 | ..... | Mar. 14 | Nov. 16 |
| *Tempe | 54.2 | 52.7 | 56.2 | 66.4 | 72.0 | 82.6 | 87.8 | 87.2 | 80.4 | 69.2 | 57.3 | 47.0 | 67.8 | 111 | 23 | Feb. 24 | Nov. 16 |
| Thatcher | 47.2 | 46.7 | 49.8 | 59.0 | 63.2 | 79.7 | 81.6 | 80.8 | 73.2 | 62.6 | 52.8 | 40.8 | 61.4 | 110 | 12 | May 7 | Oct. 9 |
| Tombstone | 53.0 | 49.3 | 51.2 | 61.7 | 66.2 | 77.4 | 78.5 | 74.9 | 71.2 | 65.4 | 55.5 | 45.1 | 62.4 | 103 | 19 | Apr. 6 | Nov. 14 |
| Tuba | 39.0 | 38.4 | 43.7 | 51.6 | 58.0 | 71.0 | 76.4 | 74.3 | 65.0 | 56.6 | 41.9 | 21.7 | 53.0 | 103 | −12 | May 1 | Oct. 10 |
| Tucson | 53.8 | 50.4 | 53.0 | 63.4 | 68.6 | 81.4 | 85.0 | 82.8 | 77.8 | 67.7 | 57.3 | 47.4 | 65.7 | 108 | 17 | Apr. 7 | Nov. 10 |
| Tucson A | 53.5 | 51.5 | 55.0 | 64.8 | 71.5 | 79.5 | 84.8 | 83.3 | 77.0 | 64.8 | 54.1 | 45.1 | 65.4 | 110 | 14 | Apr. 7 | Oct. 23 |
| Vail | 55.0 | 49.2 | 53.4 | 63.2 | 71.2 | 73.1 | 82.6 | 80.2 | 76.4 | 62.4 | 58.4 | 43.0 | 64.0 | 106 | 13 | Apr. 7 | Nov. 19 |
| Walnut Grove | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | May 13 | Nov. 16 |
| Wickenburg | 56.4 | 53.4 | 56.2 | 67.4 | 73.8 | 83.1 | 88.2 | 87.3 | 82.0 | 70.1 | 59.2 | 47.4 | 68.7 | 110 | 23 | Mar. 12 | Nov. 16 |
| Willcox | 46.3 | 44.3 | 47.8 | 55.6 | 61.8 | 73.4 | 79.9 | 76.6 | 70.2 | 59.8 | 50.5 | 38.6 | 58.7 | 105 | 3 | Apr. 12 | Oct. 27 |
| Williams | 36.3 | 32.0 | 36.6 | 45.2 | 50.4 | 62.6 | 69.2 | 68.5 | 62.2 | 56.0 | 48.8 | 27.4 | 49.6 | 102 | − 3 | June 9 | Oct. 5 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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.* | | |
| *Arizona*—Contd. | | | | | | | | | | | | | | | | |
| Winslow | 41.8 | 42.2 | 44.9 | 53.7 | 58.4 | 71.2 | 70.8 | 75.6 | 67.2 | 58.0 | 45.0 | 29.9 | 55.4 | 107 1 | May 30 | Oct. 9 |
| Yarnell | | | | | | | | | | | | | | | | Oct. 10 |
| *Yuma | 57.7 | 57.9 | 59.5 | 68.9 | 74.8 | 83.8 | 90.2 | 86.0 | 82.7 | 70.2 | 60.6 | 50.3 | 70.4 | 112 26 | | Dec. 4 |
| Yuma A | 55.5 | 54.4 | 56.6 | 65.7 | 70.1 | 79.3 | 85.5 | 87.4 | 79.2 | 67.8 | 56.0 | 48.0 | 67.1 | 110 17 | Mar. 13 | Oct. 31 |
| *Arkansas.* | | | | | | | | | | | | | | | | |
| Alicia | 41.8 | 47.2 | 51.6 | 60.7 | 65.8 | °76.0 | 78.9 | ..... | 72.7 | 60.2 | 58.4 | b 35.9 | ..... | 101 8 | Apr. 10 | Oct. 12 |
| Amity | 47.0 | 49.1 | 54.2 | 62.0 | 68.7 | 77.4 | 83.1 | 82.9 | 76.1 | 64.0 | 59.8 | 37.6 | 63.5 | 110 11 | May 2 | Sept. 28 |
| *Arkadelphia (near) | 46.7 | 50.0 | 55.6 | °63.1 | 69.2 | 78.6 | 85.1 | a84.0 | 76.8 | a65.0 | 61.1 | 39.2 | 64.5 | 111 12 | May 2 | Oct. 25 |
| *Batesville | 42.6 | 45.6 | 51.0 | 60.3 | 67.7 | 77.6 | 83.3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | May 2 | ..... |
| Bee Branch | 43.0 | a 46.6 | 52.0 | a60.0 | ..... | ..... | a83.0 | b83.8 | 75.6 | a63.8 | 58.2 | b 36.2 | ..... | 111 6 | Apr. 9 | Oct. 13 |
| Benton | 46.0 | 49.6 | 55.2 | °62.0 | ..... | ..... | ..... | ..... | f74.0 | 65.8 | b 60.9 | a 36.7 | ..... | 10 | Apr. 9 | Nov. 17 |
| *Bentonville | 37.6 | 42.4 | 47.9 | 56.2 | 63.1 | 73.6 | 79.4 | 80.2 | 72.6 | 60.2 | 57.8 | 29.4 | 58.4 | 106 — 6 | May 1 | Oct. 12 |
| Bergman | 38.2 | 42.2 | 47.2 | 55.5 | 62.6 | 72.2 | 78.5 | 77.8 | 69.6 | d59.7 | d54.9 | 28.6 | 57.2 | 107 —10 | May 10 | Sept. 28 |
| *Brinkley | 42.9 | 47.6 | ..... | ..... | 66.0 | 78.0 | 81.4 | 82.6 | 74.1 | 61.9 | 59.2 | 35.4 | ..... | 106 9 | May 2 | Oct. 13 |
| *Camden | 49.8 | 51.4 | 57.0 | 63.4 | 69.2 | 78.4 | 83.2 | 82.6 | 76.2 | 65.3 | 61.4 | 40.1 | 64.8 | 107 6 | Apr. 9 | Oct. 25 |
| Center Point | 49.0 | 50.0 | 56.9 | 64.0 | 70.2 | 78.5 | 84.6 | 85.4 | 77.8 | 67.0 | 62.0 | 38.8 | 65.4 | 111 10 | Apr. 9 | Nov. 17 |
| Conway | 44.1 | 47.6 | 52.8 | 60.8 | 67.0 | 77.2 | 82.8 | 83.8 | 75.4 | 61.8 | 58.4 | 35.7 | 62.3 | 110 10 | Apr. 9 | Oct. 13 |
| Corning | 41.0 | 46.2 | 51.4 | 60.0 | 66.5 | 76.5 | 79.7 | 80.4 | 72.2 | 60.4 | 58.8 | 34.0 | 60.6 | 100 7 | May 2 | Oct. 15 |
| *Dardanelle | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 84.1 | 75.8 | 62.4 | 58.4 | 33.8 | ..... | ..... | ..... | Nov. 18 |
| Dodd City | ..... | 44.6 | 49.6 | ..... | 65.6 | 73.2 | 79.6 | 79.5 | 71.8 | e61.7 | 56.5 | b 31.7 | ..... | 104 —10 | May 2 | Oct. 12 |
| Dutton | 39.0 | 41.7 | a47.8 | a57.4 | 63.0 | 72.9 | 77.6 | f78.5 | ..... | 59.2 | e 56.2 | 29.9 | ..... | 105 — 8 | May 2 | Oct. 12 |
| Earl | ..... | 49.3 | 53.5 | 62.4 | 67.6 | 78.2 | ..... | 82.2 | 73.5 | f62.4 | 59.8 | b 35.0 | ..... | 104 ..... | Apr. 10 | Oct. 13 |
| *Eldorado | 46.8 | 50.1 | 55.6 | 63.2 | 69.0 | 78.8 | 83.3 | 82.8 | 76.0 | 64.8 | 61.6 | 38.4 | 64.2 | 106 11 | Apr. 9 | Nov. 18 |
| England | a 43.4 | b 50.4 | b55.2 | 62.0 | 68.0 | e78.0 | 83.0 | 82.8 | 74.7 | 63.2 | a 59.8 | a 38.2 | 63.2 | 106 7 | Apr. 9 | Oct. 13 |
| *Eureka Springs | 40.0 | 43.2 | 49.2 | 57.7 | 64.7 | 73.8 | 81.1 | 81.7 | c72.4 | b59.6 | 58.0 | 31.8 | 59.4 | 111 — 8 | Apr. 13 | Sept. 28 |
| Fayetteville | 40.6 | 45.0 | 50.0 | 58.4 | 64.8 | 74.0 | 80.8 | 82.2 | 75.7 | a64.3 | 61.4 | 33.1 | 62.9 | 109 — 2 | May 1 | Oct. 12 |
| *Fort Smith | 42.4 | 46.6 | 51.8 | 60.6 | 67.7 | 77.0 | 83.2 | 84.2 | 76.4 | 65.9 | 59.7 | 34.0 | 62.3 | 108 6 | Mar. 15 | Nov. 17 |
| Hardy | 40.6 | 44.6 | 50.4 | 58.6 | a65.0 | 75.0 | 78.4 | 80.8 | 71.9 | 61.8 | 58.0 | 32.3 | 59.8 | 105 5 | May 2 | Oct. 13 |
| *Helena | a 44.6 | 49.4 | 53.5 | 62.6 | 67.0 | 78.2 | 81.8 | 81.0 | 74.8 | 63.0 | 60.1 | 37.2 | 62.8 | 99 12 | Mar. 15 | Oct. 13 |
| Hot Springs | 44.9 | 47.2 | 53.1 | f60.1 | d64.0 | 76.1 | 82.0 | 80.6 | ..... | 61.2 | 57.6 | 35.6 | ..... | 108 5 | May 1 | Oct. 13 |
| Huttig | 50.2 | 52.8 | 58.6 | 65.0 | 69.8 | 79.8 | a84.0 | 83.2 | 76.4 | a66.0 | c 61.6 | d 40.9 | 65.7 | 106 14 | Mar. 16 | Nov. 18 |
| Jonesboro | a 41.6 | c 46.4 | a52.0 | a60.4 | a66.3 | 78.0 | 80.6 | 83.4 | 72.9 | 61.2 | 57.9 | 33.4 | 61.2 | 104 8 | May 2 | Oct. 13 |
| Junction | 49.1 | ..... | 56.8 | ..... | 69.2 | 79.0 | 84.2 | 80.6 | ..... | d64.6 | ..... | 38.0 | ..... | 105 12 | Mar. 16 | Nov. 18 |
| La Crosse | 41.2 | 44.4 | 49.6 | °58.9 | 66.0 | a74.4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Apr. 9 | ..... |
| Lake Farm | 46.7 | 51.8 | 55.8 | 62.2 | 68.8 | 79.1 | 83.8 | 83.0 | 74.2 | 63.6 | b 58.9 | ..... | ..... | 103 ..... | Apr. 9 | Oct. 13 |
| Lewisville | 50.3 | 53.2 | 57.8 | a63.8 | 70.7 | b79.8 | 84.7 | 85.0 | 78.0 | 67.8 | 62.5 | a 40.6 | 66.2 | 110 8 | Feb. 25 | Nov. 18 |
| *Little Rock | 43.8 | 49.4 | 54.2 | 61.7 | 67.6 | 77.8 | 82.4 | 83.0 | 74.8 | 64.2 | 60.3 | 37.1 | 63.0 | 105 13 | Mar. 15 | Nov. 18 |
| Lutherville | 43.0 | 44.6 | 50.2 | 59.2 | 64.8 | 75.1 | 80.9 | 82.6 | 74.8 | 62.2 | 57.1 | 33.4 | 60.7 | 111 5 | May 2 | Oct. 13 |
| McNeil | b 49.3 | ..... | a57.6 | a64.0 | 70.8 | a79.8 | 85.0 | 84.2 | ..... | a66.6 | 61.4 | ..... | ..... | 110 ..... | Apr. 9 | Nov. 17 |
| *Malvern | 46.2 | 49.0 | 52.3 | 60.0 | 66.8 | 77.8 | 82.8 | 82.8 | 74.6 | 62.4 | 58.0 | a 39.1 | 62.6 | 111 10 | Apr. 9 | Oct. 25 |
| Mammoth Spring | 38.9 | 43.1 | 49.0 | a58.0 | 64.2 | 74.6 | 77.4 | 78.6 | a70.2 | 58.6 | c 58.0 | 31.5 | 58.5 | 103 — 3 | May 2 | Oct. 12 |
| Marvell | 46.2 | 50.7 | 55.4 | 63.2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Mar. 15 | ..... |
| Memphis, Tenn | 43.6 | 48.6 | 53.2 | 61.8 | 67.0 | 78.0 | 81.4 | 82.1 | 73.2 | 63.4 | 60.6 | 36.2 | 62.4 | 96 11 | Feb. 17 | Nov. 17 |
| Mena | 45.6 | 47.6 | 52.4 | a61.3 | 67.0 | a74.1 | 81.5 | 82.1 | 75.2 | 64.4 | 59.7 | 35.7 | 62.2 | 107 8 | Apr. 8 | Nov. 17 |
| Mossville | 36.2 | 41.2 | 47.1 | 56.0 | 62.2 | 71.0 | 77.2 | 79.2 | 71.9 | 59.4 | 55.1 | 30.1 | 57.2 | 105 2 | May 1 | Oct. 12 |
| Mount Nebo | 40.7 | 46.4 | 50.9 | 58.8 | ..... | ..... | ..... | ..... | ..... | 62.0 | 57.3 | b 31.4 | ..... | 4 | Mar. 15 | Nov. 17 |
| *Newport | 42.1 | 48.8 | b53.2 | 61.6 | 67.4 | a78.8 | 82.6 | 83.0 | 72.9 | 60.6 | 58.2 | 34.2 | 62.0 | 105 9 | Mar. 15 | Oct. 13 |
| Ozark | 43.2 | d47.6 | 53.6 | 61.8 | e68.4 | a78.0 | 82.7 | 85.4 | b78.8 | e65.4 | 60.7 | 34.8 | 63.4 | 111 7 | Mar. 15 | Nov. 17 |
| *Pine Bluff | 45.0 | 48.2 | 53.4 | 61.2 | 67.4 | 78.2 | 83.7 | 84.0 | 75.7 | 66.0 | 60.8 | 38.4 | 63.5 | 107 10 | Apr. 9 | Nov. 18 |
| Pocahontas | 42.9 | 47.0 | 52.0 | 61.7 | 67.0 | 78.7 | 80.4 | 82.6 | 73.0 | 62.2 | 59.6 | 35.6 | 61.9 | 104 6 | May 2 | Oct. 13 |
| Pond | 39.8 | 43.0 | 48.5 | 57.6 | 63.6 | 73.2 | 79.0 | 80.6 | 72.7 | 60.8 | 58.0 | 30.6 | 59.0 | 109 —19 | May 10 | Oct. 12 |
| *Portland | ..... | ..... | ..... | 64.0 | 69.2 | 79.9 | 83.8 | 84.6 | 77.4 | 65.9 | 61.0 | 39.0 | ..... | 110 ..... | ..... | Nov. 18 |
| *Prescott | 47.6 | 49.7 | 56.0 | 62.0 | 69.1 | 79.0 | 83.4 | 83.7 | 77.2 | 65.3 | 61.5 | 37.6 | 64.3 | 109 4 | Apr. 9 | Nov. 18 |
| Princeton | 47.2 | 49.8 | 55.1 | 62.4 | 68.0 | 77.8 | 83.0 | f82.8 | ..... | ..... | ..... | ..... | ..... | 109 ..... | May 2 | ..... |
| Rogers | 40.2 | 44.1 | 49.3 | 58.6 | 64.0 | 72.6 | 78.7 | 80.6 | 73.6 | 60.8 | 58.3 | 31.6 | 59.4 | 107 — 5 | May 2 | Oct. 12 |
| *Russellville | 41.8 | 43.6 | 50.1 | 58.8 | 66.8 | 78.4 | 83.0 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Apr. 9 | ..... |
| Spielerville | b 45.0 | f46.2 | 53.0 | 61.8 | 67.6 | 76.6 | 83.9 | 85.0 | 77.1 | 64.2 | 60.0 | 35.4 | f63.0 | 111 7 | Mar. 30 | Nov. 17 |
| Stuttgart | 45.8 | 49.1 | 53.9 | 62.0 | 67.2 | 78.4 | 82.0 | 83.1 | 74.8 | 63.5 | 60.8 | 37.4 | 63.2 | 106 6 | Apr. 9 | Oct. 13 |
| *Texarkana | 48.6 | 50.7 | b56.5 | 64.3 | 71.8 | 80.6 | b85.0 | 84.5 | 77.8 | 65.6 | 61.0 | 38.4 | 65.4 | 108 13 | Mar. 15 | Nov. 18 |
| *Warren | 44.8 | 51.1 | 55.2 | 63.6 | 68.0 | 78.4 | 83.2 | 82.7 | 75.2 | 63.7 | 60.5 | 37.2 | 63.6 | 104 8 | Apr. 9 | Nov. 18 |
| Wiggs | 45.4 | 46.0 | 52.0 | 60.4 | 65.9 | 75.0 | 81.2 | 81.3 | 75.2 | 62.6 | 58.9 | 36.0 | 61.7 | 111 4 | May 2 | Oct. 13 |
| *Wynne | 41.8 | 46.4 | 51.3 | 61.0 | 66.5 | 78.0 | 82.0 | 82.1 | 72.9 | 61.2 | 59.2 | 33.7 | 61.3 | 105 4 | Apr. 9 | Oct. 12 |
| *California.* | | | | | | | | | | | | | | | | |
| Alturas | 31.8 | 34.1 | 38.2 | 44.3 | 49.6 | 60.1 | 62.8 | 64.6 | 67.5 | 49.2 | 40.0 | 28.3 | 46.7 | 100 —21 | June 28 | July 7 |
| Angiola | 51.1 | ..... | 47.2 | 56.7 | 59.9 | 67.4 | 76.8 | 79.8 | 69.0 | ..... | 41.9 | 34.6 | ..... | ..... | May 26 | Nov. 1 |
| Antioch | 51.1 | 51.5 | 54.9 | 64.1 | 65.8 | 75.6 | 79.1 | 78.6 | 75.8 | 63.3 | 61.5 | 47.7 | 64.1 | 104 30 | ..... | Nov. 15 |
| Aptos | 51.7 | 49.9 | 50.6 | 56.8 | 58.0 | 61.7 | 63.4 | 61.3 | 61.3 | 58.6 | 52.8 | 47.6 | 56.2 | 92 28 | Mar. 20 | Nov. 15 |
| Auburn | 49.4 | 46.9 | 49.6 | 62.6 | 71.9 | 75.8 | 75.2 | 78.3 | 68.0 | 66.0 | 57.8 | 46.7 | 62.4 | 103 20 | Feb. 20 | Nov. 16 |
| Azusa | 49.8 | 48.6 | 51.0 | 58.1 | 59.7 | 66.8 | 70.6 | 73.0 | 68.4 | 63.2 | 55.4 | 48.6 | 59.4 | 109 27 | ..... | ..... |
| Bagdad | 56.6 | 57.0 | 61.6 | 73.8 | 80.1 | 92.5 | 96.4 | 96.6 | 87.4 | 74.8 | 60.9 | 50.1 | 74.0 | 116 26 | ..... | ..... |
| Bakersfield | 52.6 | 50.6 | 60.6 | 69.8 | 82.6 | 80.3 | 83.2 | 86.8 | 77.6 | 65.6 | 56.3 | 48.2 | 68.0 | 108 30 | ..... | ..... |
| Barstow | 48.0 | 47.2 | 51.4 | 61.4 | 66.7 | 80.0 | 84.2 | 83.6 | 73.4 | 62.5 | 50.9 | 41.0 | 62.5 | 114 14 | Mar. 13 | Nov. *7 |
| Beckwith | 33.2 | 32.7 | 37.4 | 46.2 | 49.0 | 58.2 | 60.6 | 63.0 | 56.8 | 48.6 | 38.1 | 25.8 | 45.8 | 99 —17 | May 24 | July 6 |
| Berkeley | 50.4 | 49.6 | 50.5 | 57.0 | 57.2 | 60.4 | 62.8 | 61.4 | 62.9 | 58.6 | 52.7 | 47.6 | 55.9 | 93 34 | ..... | ..... |
| Biggs | 51.5 | 50.8 | 51.8 | 60.2 | 66.4 | 72.2 | 76.9 | 76.8 | 71.3 | 63.7 | 54.2 | 49.2 | 62.1 | 102 30 | ..... | ..... |
| Bishop | 41.0 | 39.2 | 45.8 | 55.4 | 60.6 | 69.9 | ..... | 71.7 | 63.4 | ..... | 47.2 | 28.5 | ..... | 94 — 4 | ..... | ..... |
| Blocksburg | 44.3 | 43.3 | 45.1 | 51.6 | 55.5 | 60.9 | 63.3 | 67.2 | 66.2 | 57.0 | 46.9 | 42.1 | 53.6 | 99 21 | Mar. 27 | Nov. 12 |
| Blue Canyon | 35.7 | 35.3 | 36.4 | 48.6 | 50.2 | 58.6 | 62.2 | 64.6 | 61.3 | 51.9 | 40.2 | 36.3 | 48.4 | 87 11 | ..... | ..... |
| Blythe | ..... | 54.1 | 58.2 | 68.2 | 73.6 | 83.8 | 90.5 | 86.7 | 80.6 | 67.2 | 56.2 | ..... | ..... | 114 ..... | ..... | ..... |
| Branscomb | 42.8 | 41.8 | 43.2 | 52.6 | 52.6 | 59.7 | 61.8 | 63.8 | 61.2 | 56.1 | 46.8 | 42.4 | 52.0 | 95 20 | May 27 | Nov. 6 |
| *Brawley | 56.9 | 57.0 | 60.0 | 69.6 | 74.4 | 84.6 | 89.4 | 89.6 | 83.2 | 71.6 | 60.0 | 49.4 | 70.5 | 115 24 | Feb. 24 | Dec. 4 |
| Brush Creek | 42.7 | 41.1 | 43.8 | 54.5 | 58.6 | 66.0 | 69.2 | 69.8 | 64.1 | 54.7 | 45.8 | 37.4 | 54.0 | 104 18 | Apr. 11 | Nov. 12 |
| Calexico | 58.6 | 58.0 | 60.6 | 70.0 | 74.9 | 83.6 | 90.3 | 89.8 | 83.3 | 72.8 | 61.3 | 50.2 | 71.1 | 112 26 | ..... | Dec. 4 |
| Caliente | 55.2 | 51.7 | 54.2 | 65.0 | 70.8 | ..... | ..... | ..... | 78.1 | 64.3 | 53.8 | 50.9 | ..... | ..... | ..... | Nov. 15 |
| Calistoga | 50.1 | 47.6 | 51.0 | 55.3 | 55.5 | 63.8 | 69.9 | 66.3 | 73.7 | 55.9 | 49.3 | 43.7 | 56.8 | 105 32 | ..... | ..... |
| Campbell | 51.6 | 49.8 | 49.0 | 55.6 | 55.3 | 60.7 | 62.0 | 63.8 | 64.0 | 57.6 | 50.6 | 44.8 | 55.4 | 100 25 | Mar. 19 | Nov. 15 |
| Camptonville | 42.4 | 42.0 | 46.6 | 58.1 | 61.7 | 70.8 | 75.0 | 77.4 | 71.7 | 59.4 | 48.2 | 41.0 | 57.9 | 104 25 | ..... | ..... |
| Cedarville | 32.7 | 32.8 | 37.6 | 45.8 | 50.2 | 61.6 | 65.7 | 68.0 | 58.4 | 49.6 | 39.4 | 24.1 | 47.2 | 106 — 1 | May 22 | Sept. 22 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *California*—Contd. | | | | | | | | | | | | | | | | | |
| Chico | 50.8 | 50.0 | 51.8 | 59.4 | 65.0 | 73.7 | 77.8 | 75.8 | 72.9 | 63.6 | 53.2 | 44.0 | 61.5 | 105 | 24 | Apr. 6 | Nov. 14 |
| Chino | 54.8 | 54.0 | 55.0 | 61.8 | 64.7 | 71.8 | 76.8 | 84.9 | 74.4 | 66.9 | 58.2 | 48.6 | 64.3 | 105 | 27 | ..... | ..... |
| *Cisco | 31.6 | 31.1 | 32.4 | 41.5 | 48.0 | 63.6 | 70.0 | 63.9 | 63.0 | 53.4 | 36.3 | 30.7 | 47.1 | 95 | 8 | ..... | ..... |
| Claremont | 52.2 | 50.6 | 52.4 | 59.6 | 61.1 | 68.6 | 73.0 | 78.0 | 71.4 | 65.6 | 57.2 | 48.6 | 61.5 | 112 | 28 | ..... | ..... |
| Cloverdale | 48.8 | 48.4 | 49.9 | 59.8 | 61.6 | 69.2 | 71.2 | 69.8 | 67.7 | 60.6 | 52.4 | 46.6 | 58.8 | 105 | 27 | Mar. 20 | Nov. 15 |
| Colfax | 37.6 | 36.9 | 43.2 | 56.6 | 58.4 | 70.4 | 75.1 | 72.4 | 65.5 | 53.2 | 45.0 | 33.7 | 54.0 | 100 | 16 | Mar. 7 | Nov. 15 |
| *Colusa | 49.9 | 48.4 | 51.7 | 61.0 | 64.0 | 71.5 | 75.1 | 73.2 | 70.4 | 61.6 | 52.8 | 45.6 | 60.4 | 103 | 29 | ..... | ..... |
| Corning | 49.6 | 49.5 | 53.1 | 61.6 | 71.2 | 81.8 | 85.9 | 87.0 | 77.4 | 66.2 | 52.6 | 44.3 | 65.0 | 103 | 30 | ..... | ..... |
| Cuyamaca | 42.7 | 40.4 | 40.0 | 50.1 | 53.7 | 67.5 | 72.2 | 72.0 | 65.1 | 56.4 | 47.0 | 38.4 | 53.8 | 91 | 21 | ..... | ..... |
| Daunt | 42.4 | 40.2 | 41.8 | 52.2 | 55.4 | 65.1 | 69.2 | 72.8 | 67.8 | 59.0 | 49.2 | 42.6 | 54.8 | 100 | 18 | Apr. 12 | Oct. 31 |
| Davisville | 50.2 | 49.6 | 50.8 | 56.0 | 60.8 | 68.5 | 72.2 | 70.5 | 68.1 | 60.0 | 51.6 | 42.0 | 58.4 | 104 | 20 | Mar. 5 | Oct. 29 |
| Deer Creek | 39.2 | 37.0 | 39.6 | 49.7 | 52.4 | 61.0 | 63.4 | 65.7 | 62.2 | 53.2 | 43.0 | 34.9 | 50.1 | 91 | 11 | May 11 | July 7 |
| *Delta | 48.4 | 42.6 | 48.8 | 58.9 | 62.7 | 70.6 | 74.4 | 76.2 | 71.8 | 62.4 | 50.8 | 43.6 | 59.2 | 106 | 23 | Apr. 4 | Nov. 12 |
| Denair | 46.0 | 50.1 | 49.0 | 59.7 | 63.8 | 68.4 | 69.8 | 74.4 | 72.2 | 61.4 | 52.3 | 45.0 | 59.3 | 105 | 22 | ..... | ..... |
| Dobbins | 53.1 | 47.2 | 49.2 | 59.6 | 62.4 | 71.4 | 75.9 | 77.8 | 74.2 | 63.8 | 53.6 | 45.7 | 61.2 | 104 | 28 | ..... | ..... |
| Dudleys | 42.2 | 39.6 | 41.4 | 50.6 | 52.5 | 61.0 | 64.4 | 66.2 | 62.4 | ..... | 45.7 | 37.2 | ..... | 94 | 5 | May 29 | Oct. 30 |
| Dunnigan | 52.8 | 50.9 | 55.1 | 68.4 | 74.9 | 83.2 | 86.0 | 83.6 | 80.7 | 67.4 | 57.5 | 45.0 | 67.1 | 105 | 28 | ..... | ..... |
| *Dunsmuir | 39.5 | 36.8 | 43.2 | 54.2 | 60.2 | 69.4 | 73.3 | 73.3 | 63.2 | 53.2 | 43.3 | 34.9 | 53.7 | 101 | 19 | ..... | ..... |
| Durham | 51.2 | 49.2 | 50.8 | 59.1 | 65.2 | 72.0 | 75.8 | 75.4 | 71.2 | 61.3 | 53.2 | 42.0 | 60.5 | 106 | 23 | Mar. 12 | Nov. 15 |
| El Cajon | 53.5 | 52.9 | 53.8 | 60.0 | 62.8 | 67.8 | 70.8 | 75.2 | 70.6 | 64.2 | 56.2 | 51.3 | 61.6 | 108 | 27 | ..... | ..... |
| *Electra | 53.4 | 52.1 | 52.6 | 61.6 | 67.0 | 76.6 | 78.8 | 80.3 | 74.8 | 63.3 | 54.3 | 46.0 | 63.4 | 111 | 31 | ..... | ..... |
| Elsinore | 51.2 | 50.2 | 51.1 | 59.8 | 63.4 | 71.2 | 75.7 | 79.0 | 71.4 | 63.4 | 53.8 | 46.6 | 61.4 | 108 | 19 | Mar. 12 | Nov. 15 |
| Emigrant Gap | 38.2 | 33.0 | 36.2 | 51.0 | 55.0 | 65.5 | 66.8 | 68.2 | 66.0 | 52.4 | 44.4 | 29.5 | 49.2 | 92 | 10 | ..... | ..... |
| Escondido | 51.0 | 51.5 | 53.1 | 59.4 | 62.2 | 67.8 | 71.2 | 74.7 | 70.0 | 64.4 | 57.8 | 52.5 | 61.3 | 113 | 23 | ..... | ..... |
| *Eureka | 49.2 | 47.8 | 47.4 | 48.3 | 49.6 | 53.0 | 55.6 | 54.8 | 53.6 | 53.8 | 52.0 | 46.3 | 51.0 | 77 | 29 | Jan. 11 | Dec. 23 |
| Farmington | 52.5 | 50.8 | 53.0 | 64.5 | 70.5 | 75.7 | 80.4 | 81.7 | 76.2 | 64.5 | 54.3 | 44.7 | 64.1 | 104 | 28 | Mar. 5 | Nov. 15 |
| *Folsom | 51.7 | 49.8 | 52.1 | 61.6 | 66.0 | 73.0 | 77.2 | 77.4 | 73.2 | 63.0 | 54.5 | 45.4 | 62.0 | 108 | 28 | Jan. 11 | Nov. 15 |
| Fordyce Dam | 29.4 | 25.2 | 27.2 | 34.4 | 41.4 | 52.6 | 57.4 | 60.6 | 54.9 | 44.0 | 34.2 | 26.1 | 40.6 | 82 | − 5 | ..... | ..... |
| Fouts Springs | 44.9 | 43.2 | 46.1 | 55.3 | 56.8 | 64.4 | 68.6 | 70.1 | 66.6 | 57.8 | 48.7 | 42.4 | 55.4 | 98 | 18 | ..... | ..... |
| *Fresno | 51.8 | 49.4 | 52.1 | 62.8 | 65.6 | 75.0 | 79.4 | 80.7 | 74.3 | 64.0 | 53.8 | 45.2 | 62.8 | 107 | 30 | ..... | Dec. 3 |
| Fruto | 50.7 | 49.1 | 52.6 | 62.6 | 67.3 | 77.4 | 80.6 | 79.0 | 73.4 | 60.2 | 50.4 | 43.0 | 62.2 | 106 | 28 | ..... | ..... |
| Galt | 52.5 | 50.4 | 54.0 | 61.5 | 66.2 | 73.7 | ..... | 71.4 | 70.7 | 61.4 | 54.1 | 42.2 | ..... | 103 | 29 | ..... | ..... |
| Georgetown | 42.6 | 41.5 | 44.0 | 54.9 | 57.6 | 67.0 | ..... | ..... | 69.0 | 58.2 | 47.0 | 41.0 | ..... | ..... | 21 | Mar. 7 | Nov. 15 |
| Gilroy | 51.1 | 48.1 | 51.2 | 60.9 | 64.6 | 72.3 | 70.5 | 70.6 | 68.4 | 58.9 | 51.7 | 44.0 | 59.4 | 110 | 24 | Mar. 6 | Nov. 16 |
| Gold Run | 42.3 | 37.6 | 43.7 | 57.3 | 58.6 | 72.4 | 73.9 | 76.8 | 69.6 | 57.6 | 47.6 | 40.6 | 56.5 | 96 | 22 | ..... | ..... |
| Gonzales | 49.3 | 48.8 | 50.6 | 50.6 | 51.7 | 56.4 | 57.0 | 56.3 | 54.6 | 53.4 | 51.8 | 50.0 | 52.5 | 100 | 22 | Mar. 5 | Nov. 15 |
| Grass Valley | 43.1 | 41.8 | 44.1 | 56.0 | 58.0 | 66.9 | 69.8 | 71.8 | 66.8 | 56.5 | 45.2 | 40.3 | 55.0 | 94 | 18 | Mar. 30 | Nov. 15 |
| Greenville | 38.7 | 38.6 | 41.7 | 48.7 | 52.6 | 60.6 | 62.8 | 64.1 | 59.7 | 51.2 | 43.1 | 31.6 | 49.5 | 101 | ..... | May 24 | July 4 |
| Groveland | 44.2 | 41.4 | 42.6 | 53.1 | 56.5 | 66.4 | 70.8 | 72.8 | 67.2 | 57.4 | ..... | 38.4 | ..... | 94 | 19 | May 11 | Oct. 28 |
| Guinda | 47.3 | 50.1 | 54.8 | 56.3 | 67.3 | 80.5 | 77.4 | 80.1 | 74.8 | 59.8 | 46.4 | 42.2 | 61.4 | 108 | 27 | ..... | ..... |
| Hanford | 50.1 | 53.7 | 54.2 | 64.3 | 72.7 | 79.8 | 80.8 | 85.6 | 76.8 | 66.8 | 53.6 | 45.4 | 65.3 | 110 | 26 | ..... | Nov. 28 |
| Healdsburg | 49.4 | 48.8 | 50.4 | 49.6 | 61.1 | 69.8 | 70.2 | 67.0 | 66.2 | 60.8 | 52.6 | 45.2 | 58.4 | 106 | 26 | Mar. 21 | Nov. 27 |
| Heber | 57.2 | 57.4 | 60.0 | 69.2 | 74.3 | 85.6 | 90.9 | 91.2 | 83.4 | 72.0 | 59.2 | 49.4 | 70.8 | 116 | 21 | Feb. 24 | Dec. 4 |
| Helen Mine | 42.3 | 40.4 | 44.6 | 56.9 | 61.4 | 66.6 | 72.5 | 86.8 | 76.3 | ..... | ..... | ..... | ..... | ..... | ..... | Mar. 5 | ..... |
| Hollister | 52.0 | 50.4 | 50.0 | 56.2 | 55.4 | 61.4 | 63.8 | 63.5 | 64.2 | 60.2 | 54.2 | 46.8 | 56.5 | 103 | 21 | Mar. 12 | Nov. 15 |
| Hornbrook | 40.2 | 42.0 | 45.8 | 49.2 | 53.6 | 60.2 | 60.6 | 65.2 | 64.5 | 53.2 | 42.9 | 34.3 | 51.0 | 102 | 15 | ..... | ..... |
| Hot Springs | 44.0 | 41.6 | 42.7 | 54.2 | 59.0 | 68.8 | 73.1 | 74.6 | 67.6 | 56.0 | 46.3 | 40.2 | 55.7 | 97 | 18 | ..... | ..... |
| Hullville | 42.6 | 41.8 | 43.8 | 52.2 | 54.0 | 62.4 | 65.0 | 66.9 | 63.0 | 55.8 | 47.0 | 39.0 | 52.8 | 100 | 15 | May 24 | Oct. 8 |
| Idyllwild | 40.1 | 37.4 | 36.8 | 48.1 | 50.8 | 62.8 | 67.0 | 66.0 | 59.0 | 54.2 | ..... | 38.4 | ..... | 93 | 9 | ..... | ..... |
| *Independence | 41.7 | 40.3 | 44.2 | 56.0 | 60.8 | 73.0 | 76.6 | 75.3 | 66.2 | 57.3 | 47.0 | 26.0 | 55.4 | 102 | 3 | Mar. 27 | Nov. 1 |
| Indio | 56.6 | 57.8 | 61.9 | 72.4 | 77.1 | 87.8 | 91.6 | 91.3 | 84.2 | 74.8 | 61.8 | 49.8 | 72.3 | 116 | 24 | ..... | ..... |
| Inskip | 33.2 | 32.4 | 36.3 | 44.1 | 47.8 | 58.8 | 60.0 | 61.8 | 57.0 | 49.5 | 38.4 | 32.4 | 46.0 | 86 | 10 | ..... | ..... |
| Ione | 51.2 | 47.3 | 46.0 | 55.8 | 58.5 | 64.5 | 71.3 | 77.4 | 65.3 | 56.2 | 52.1 | 43.2 | 57.4 | 105 | 24 | Mar. 5 | Nov. 15 |
| Iowa Hill | 43.0 | 41.4 | 44.6 | 55.8 | 57.5 | 65.7 | 72.7 | 73.8 | 68.2 | 59.2 | 49.0 | 42.0 | 56.1 | 96 | 21 | Mar. 28 | Nov. 14 |
| Jamestown | 48.6 | 45.5 | 47.0 | 57.1 | 59.1 | 68.6 | 71.8 | 73.7 | 69.6 | 59.4 | 49.6 | 41.8 | 57.6 | 100 | 25 | ..... | ..... |
| King City | 48.8 | 51.2 | 50.4 | 56.8 | 59.0 | 64.0 | 74.8 | 74.8 | 74.8 | 63.2 | 52.1 | 46.2 | 59.7 | 110 | 14 | Mar. 19 | Oct. 31 |
| *La Porte | 34.0 | 32.5 | 34.7 | 45.8 | 48.2 | 56.9 | 60.0 | 63.1 | 58.6 | 52.0 | 42.4 | 33.5 | 46.7 | 89 | 10 | June 28 | July 6 |
| Le Grand | 48.0 | 47.2 | 49.2 | 57.6 | 63.9 | 73.0 | 78.4 | 78.2 | 71.9 | 60.9 | 50.7 | 43.8 | 60.2 | 108 | 27 | ..... | ..... |
| Lemon Cove | 55.5 | 50.2 | 52.2 | 62.0 | 62.6 | 71.4 | 73.3 | 75.2 | 69.8 | 61.4 | 51.8 | 46.6 | 61.0 | 108 | 20 | May 11 | Nov. 1 |
| Lick Observatory | 39.2 | 36.8 | 37.4 | 50.6 | 51.6 | 60.6 | 65.7 | 69.8 | 64.1 | 55.3 | 44.4 | 38.0 | 51.1 | 84 | 22 | ..... | ..... |
| Livermore | 51.2 | 50.8 | 50.9 | 59.1 | 59.4 | 66.0 | 68.8 | 70.2 | 69.3 | 62.6 | 54.4 | 45.4 | 59.0 | 106 | 2 | Mar. 5 | Nov. 15 |
| Lodi | 52.0 | 50.0 | 51.0 | 58.7 | 62.6 | 69.4 | 71.8 | 70.4 | 68.0 | 59.3 | 51.8 | 43.6 | 59.0 | 101 | 24 | Mar. 5 | Nov. 15 |
| Lone Pine | 44.2 | 43.6 | 44.9 | 56.7 | 59.9 | 71.8 | 73.8 | 73.7 | 65.4 | 56.9 | 46.3 | 34.1 | 55.9 | 99 | 2 | Mar. 9 | Oct. 31 |
| *Los Angeles | 54.6 | 54.0 | 55.0 | 60.6 | 60.3 | 65.6 | 67.7 | 70.6 | 68.6 | 66.3 | 60.0 | 53.8 | 61.4 | 103 | 37 | ..... | ..... |
| Los Banos | 56.5 | 53.0 | 54.2 | 63.0 | 65.8 | 71.6 | 76.0 | 76.8 | 72.8 | 62.8 | 56.9 | 48.0 | 63.1 | 100 | 30 | ..... | ..... |
| Los Gatos | 50.6 | 50.2 | 50.6 | 59.0 | 58.6 | 63.5 | 66.5 | 67.5 | 66.8 | 60.4 | 53.8 | 47.4 | 57.9 | 103 | 31 | ..... | Dec. 4 |
| Macdoel | 33.2 | 33.0 | 36.6 | 41.9 | 46.5 | 55.6 | 58.6 | 61.2 | 55.5 | 47.4 | 38.4 | 27.2 | 44.6 | 95 | − 4 | June 30 | July 29 |
| Madeline | 29.6 | 29.4 | 34.8 | 42.6 | 42.6 | 56.4 | 59.4 | 61.6 | 55.9 | 50.6 | 36.8 | 24.9 | 44.0 | 98 | −17 | June 29 | July 28 |
| Magalia | 41.6 | 41.1 | 44.0 | 53.0 | 67.4 | 63.0 | 68.4 | 71.5 | 66.0 | 56.4 | 44.8 | 41.8 | 51.4 | 102 | 16 | May 31 | Nov. 7 |
| Mammoth Tank | 56.2 | 57.6 | 60.9 | 71.0 | 77.0 | 89.6 | 94.0 | 92.0 | 86.2 | 74.2 | 61.6 | 51.8 | 72.7 | 117 | 31 | ..... | ..... |
| *Marysville | 50.2 | 51.8 | 52.7 | 61.8 | 67.2 | ..... | 73.8 | 82.8 | 75.0 | 69.8 | 56.8 | 51.6 | ..... | 101 | 27 | ..... | ..... |
| Mecca | 54.6 | 56.2 | 59.6 | 70.6 | 75.6 | 85.7 | 88.8 | 89.6 | 82.8 | 72.3 | 59.3 | 50.6 | 70.5 | 111 | 21 | ..... | Nov. 17 |
| Menlo Park | 52.4 | 52.1 | 52.2 | 61.2 | 60.8 | 66.1 | 68.2 | 67.6 | 66.7 | 60.8 | 54.8 | 47.6 | 59.2 | 101 | 30 | ..... | ..... |
| Merced | 48.4 | 48.0 | 50.5 | 63.3 | 61.6 | 66.1 | 77.2 | 74.2 | 70.2 | 61.2 | 51.2 | 50.5 | 60.2 | 105 | 31 | ..... | ..... |
| Mill Creek | 46.4 | 44.2 | 47.8 | 57.5 | 58.8 | 66.2 | 70.1 | 75.8 | 64.2 | 55.8 | 46.2 | 39.2 | 56.0 | 92 | 21 | Mar. 7 | Nov. 15 |
| Milton | 51.6 | 49.7 | 51.2 | 60.0 | 64.0 | 71.9 | 76.2 | 77.4 | 72.2 | 63.9 | 54.4 | 44.4 | 61.4 | 103 | 28 | Feb. 22 | Nov. 15 |
| Modesto | 52.2 | 49.8 | 53.8 | 61.5 | 75.5 | 80.4 | ..... | 78.4 | 75.3 | 64.1 | 54.3 | 45.7 | ..... | 102 | 25 | ..... | Nov. 15 |
| Mojave | 56.0 | 46.9 | 45.7 | 63.0 | 71.7 | 84.2 | 78.1 | 75.0 | 66.7 | 56.9 | 50.6 | 45.1 | 61.7 | 104 | 20 | ..... | ..... |
| Mokelumne Hill | 48.4 | 46.2 | 47.8 | 58.2 | 61.0 | 69.6 | 74.3 | 76.2 | 72.2 | 62.5 | 51.9 | 43.3 | 59.3 | 99 | 27 | Mar. 29 | Nov. 15 |
| Mono Ranch | 42.8 | 41.8 | 42.9 | 54.0 | 55.3 | 62.9 | 66.2 | 68.6 | 62.8 | 54.6 | 47.0 | 38.7 | 52.8 | 95 | 14 | May 12 | Nov. 1 |
| Montagne | 40.4 | 39.2 | 44.4 | 50.6 | 55.4 | 65.0 | 68.2 | 70.6 | 65.1 | 55.6 | 42.2 | 32.4 | 52.4 | 104 | 12 | May 9 | Oct. 30 |
| Monterey | 52.2 | 50.3 | 51.5 | 53.8 | 57.7 | 61.0 | 59.6 | 60.2 | 62.0 | 60.0 | 54.5 | 47.4 | 56.2 | 80 | 28 | Mar. 5 | ..... |
| Monterio | ..... | 44.7 | 50.4 | 54.6 | 53.4 | 66.5 | 74.0 | 79.2 | 68.4 | 58.4 | 50.0 | 41.8 | ..... | 100 | 22 | ..... | ..... |
| Monumental | 38.0 | 36.6 | 40.6 | 49.4 | 50.4 | 56.9 | 59.8 | 64.5 | 61.4 | 53.0 | 42.4 | 35.5 | 49.0 | 94 | 18 | June 28 | Oct. 21 |
| *Mount Tamalpais | 43.1 | 42.4 | 43.1 | 55.1 | 55.0 | 61.3 | 67.6 | 70.4 | 66.2 | 57.5 | 48.4 | 41.8 | 54.3 | 93 | 28 | Mar. 20 | Dec. 3 |
| Napa City | 50.0 | 49.2 | 49.3 | 57.0 | 56.8 | 62.3 | 64.6 | 63.6 | 63.7 | 58.0 | 50.8 | 44.7 | 55.8 | 105 | 25 | ..... | ..... |
| Napa | 50.2 | 50.2 | 50.9 | 58.5 | 59.0 | 64.0 | 66.6 | 65.6 | 66.1 | 60.4 | 52.9 | 45.0 | 57.4 | 108 | 29 | Jan. 10 | Nov. 14 |
| Needles | 52.9 | 53.1 | 56.0 | 64.2 | 70.2 | 81.6 | 89.5 | 87.4 | 73.8 | 68.3 | 57.2 | 51.6 | 67.2 | 115 | 25 | ..... | ..... |
| *Nevada City | 42.6 | 41.4 | 43.4 | 53.0 | 55.6 | 64.3 | 67.5 | 69.8 | 65.0 | 57.4 | 46.8 | 38.6 | 53.8 | 98 | 14 | ..... | ..... |
| Newcastle | 49.5 | 48.4 | 50.5 | 61.2 | 64.5 | 72.0 | 75.6 | 73.8 | 77.2 | 64.4 | 56.3 | 52.9 | 62.2 | 105 | 29 | ..... | Dec. 2 |
| Newhall | 45.3 | 48.6 | 47.4 | 53.0 | 60.9 | 70.4 | 72.6 | 80.7 | 70.6 | 62.2 | 54.6 | 45.0 | 59.3 | 109 | 20 | Mar. 6 | Oct. 3 |
| Newman | 53.6 | 50.2 | 51.6 | 60.6 | 64.0 | 71.8 | 75.0 | 76.5 | 73.6 | 63.2 | 54.3 | 46.0 | 61.7 | 104 | 29 | Mar. 13 | Dec. 15 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *California*—Contd. | | | | | | | | | | | | | | | | | |
| Nimshew | 41.8 | 40.4 | 43.1 | 54.6 | 58.0 | 66.7 | 70.0 | 71.2 | 66.7 | 56.4 | 46.0 | 39.4 | 54.5 | 99 | 18 | Mar. 23 | Nov. 14 |
| North Bloomfield | 39.6 | 37.5 | ..... | 54.4 | 55.8 | 67.0 | 70.7 | 71.0 | 63.0 | 50.6 | 50.8 | 41.0 | ..... | 98 | 8 | May 16 | Nov. 10 |
| North Fork | 44.3 | 41.2 | 44.0 | 54.9 | 59.2 | 68.2 | 69.9 | 68.7 | 61.2 | 57.5 | 47.4 | 38.8 | 54.6 | 102 | 18 | May 11 | July 6 |
| Oakdale | 50.3 | 48.0 | 50.7 | 59.9 | 62.6 | 69.6 | 76.5 | 77.6 | 71.6 | 62.2 | 52.4 | 44.0 | 60.4 | 104 | 26 | ..... | ..... |
| Oakland | 51.0 | 50.8 | 51.9 | 58.0 | 58.4 | 61.8 | 63.8 | 61.8 | 62.8 | 58.8 | 53.3 | 47.9 | 56.7 | 96 | 33 | ..... | Dec. 4 |
| Ojai Valley | 52.7 | 51.0 | 51.4 | 57.8 | 57.2 | 65.0 | 68.7 | 73.2 | 67.4 | 63.3 | 56.3 | 50.4 | 60.4 | 108 | 23 | ..... | ..... |
| Orland | 49.9 | 48.8 | 52.2 | 63.7 | 67.4 | 75.4 | 79.3 | 78.0 | 74.3 | 63.6 | 52.4 | 43.6 | 62.4 | 107 | 26 | Jan. 11 | Nov. 15 |
| Orleans | 47.6 | 49.3 | 54.7 | 62.6 | 64.9 | 72.1 | 74.8 | 78.1 | 73.2 | 63.0 | 52.7 | 43.8 | 61.4 | 110 | 26 | Mar. 10 | Nov. 14 |
| *Oroville (near) | 50.4 | 49.2 | 51.4 | 62.8 | 66.2 | 74.6 | 78.1 | 77.8 | 73.5 | 63.6 | 53.1 | 44.4 | 62.1 | 110 | 28 | Feb. 21 | Nov. 15 |
| Palermo | 49.6 | 49.2 | 51.3 | 61.0 | 64.7 | 72.9 | 76.6 | 75.6 | 72.0 | 63.1 | 53.2 | 43.2 | 61.0 | 108 | 25 | Feb. 21 | Nov. 15 |
| Palm Springs | 56.0 | 54.4 | 58.2 | 69.7 | 73.1 | 85.9 | 91.3 | 91.6 | 82.9 | 72.4 | 60.9 | 48.6 | 70.4 | 113 | 32 | ..... | ..... |
| *Pasadena | 52.8 | 50.7 | 53.0 | 59.8 | 60.8 | 67.8 | 71.1 | 73.9 | 69.8 | 64.2 | 57.0 | 50.6 | 61.0 | 106 | 30 | ..... | ..... |
| *Paso Robles | 54.0 | 52.5 | 48.6 | 67.5 | 67.6 | 75.1 | 68.8 | 69.6 | 66.4 | 61.0 | 51.9 | 45.6 | 60.7 | 106 | 15 | ..... | Nov. 4 |
| Peachland | 48.8 | 48.4 | 49.2 | 56.8 | 57. | 62.4 | 65.7 | 63.6 | 64.4 | 57.6 | 51.6 | 45.0 | 55.9 | 105 | 24 | Mar. 22 | Nov. 6 |
| Penstock Camp | 41.4 | 39.8 | 44.2 | 57.5 | 60.4 | 70.6 | 75.0 | 76.6 | 70.4 | 59.7 | 47.8 | 39.3 | 56.9 | 96 | 22 | Mar. 7 | Nov. 12 |
| Pine Crest | 53.0 | 52.9 | 51.3 | 57.5 | 55.8 | 58.2 | 65.2 | 71.1 | 66.9 | 64.9 | ..... | ..... | ..... | 104 | ..... | ..... | ..... |
| Placerville | 45.4 | 43.3 | 44.2 | 53.0 | 56.8 | 65.9 | 69.0 | 68.6 | 64.8 | 56.1 | 47.2 | 40.3 | 54.6 | 99 | 23 | ..... | ..... |
| Point Lobos | 51.8 | 52.2 | 52.5 | 56.8 | 54.8 | 56.0 | 57.2 | 56.5 | 60.8 | 58.2 | 54.4 | 49.4 | 55.0 | 89 | 39 | ..... | ..... |
| *Point Reyes | 49.6 | 49.2 | 48.7 | 51.0 | 50.0 | 51.2 | 51.9 | 52.9 | 56.2 | 56.8 | 52.4 | 49.6 | 51.7 | 85 | 38 | ..... | ..... |
| Porterville | 53.6 | 50.2 | 52.8 | 62.4 | 65.4 | 74.4 | 77.9 | 79.9 | 74.3 | 63.7 | 53.2 | 45.6 | 62.8 | 106 | 27 | ..... | Nov 16 |
| Poway | 52.5 | 51.0 | 52.4 | 59.2 | 63.8 | 69.6 | 71.9 | 74.7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *Quincy | 37.3 | 35.4 | 39.8 | 47.5 | 52.6 | 60.6 | 62.2 | 62.4 | 57.2 | 49.2 | 41.4 | 29.6 | 47.9 | 94 | 8 | May 13 | July 6 |
| *Red Bluff | 48.4 | 47.9 | 51.5 | 62.5 | 66.5 | 75.7 | 79.6 | 79.2 | 74.7 | 63.2 | 52.4 | 44.0 | 62.1 | 106 | 29 | Mar. 21 | Nov. 16 |
| Redding | 47.2 | 46.9 | 51.7 | 63.0 | 66.6 | 76.8 | 79.2 | 79.1 | 75.4 | 63.4 | 51.6 | 45.4 | 62.2 | 103 | 20 | ..... | ..... |
| Redlands | 51.9 | 51.2 | 52.0 | 60.4 | 61.8 | 70.4 | 74.9 | 79.0 | 71.6 | 64.4 | 56.2 | 47.6 | 61.8 | 105 | 26 | Mar. 12 | Dec. 4 |
| Reedley | 52.6 | 50.4 | 52.0 | 61.8 | 64 5 | 74.4 | 79.1 | 79.4 | 73.2 | 62.7 | 52.4 | 45.2 | 62.3 | 107 | 27 | ..... | ..... |
| Rialto | 55.7 | 54.2 | 52.8 | 62.4 | 62.0 | 70.6 | 74.0 | 78.2 | 72.2 | 66.6 | 58.0 | 47.0 | 62.8 | 102 | 34 | ..... | Dec. 5 |
| *Riverside | 53.0 | 51.6 | 53.7 | 62.2 | 63.0 | 70.5 | 74.0 | 75.3 | 71.1 | 64.4 | 56.2 | 49.5 | 62.0 | 107 | 25 | ..... | Dec. 4 |
| Rocklin | 51.4 | 50.8 | 51.9 | 61.7 | 65.2 | 70.8 | 74.0 | 74.4 | 70.6 | 60.4 | 52.0 | 44.6 | 60.6 | 105 | 25 | ..... | ..... |
| Rohnerville | 49.4 | 48.9 | 48.2 | 50.9 | 52.0 | 55.4 | 59.0 | 58.0 | 57.4 | 55.0 | 52.4 | 45.9 | 52.8 | 88 | 29 | ..... | Nov. 12 |
| *Sacramento (1) | 50.6 | 49.9 | 51.4 | 61.2 | 62.6 | 68.2 | 71.9 | 71.8 | 69.9 | 61.6 | 53.4 | 44.0 | 59.7 | 101 | 29 | ..... | Nov. 16 |
| Sacramento (2) | 51.2 | 50.1 | 52.6 | 60.6 | 61.6 | 67.0 | 69.9 | 69.0 | 66.9 | 59.8 | 52.4 | 44.1 | 58.8 | 95 | 28 | ..... | ..... |
| Saint Helena | 49.5 | 48.4 | 49.2 | 58.8 | 60.6 | 65.8 | 68.9 | 69.0 | 68.2 | 59.2 | 51.8 | 44.2 | 57.8 | 109 | 23 | Mar. 5 | Nov. 14 |
| Salinas | 53.2 | 51.2 | 51.2 | 57.0 | 55.6 | 57.6 | 59.6 | 59.7 | 62.6 | 59.5 | 53.7 | 48.8 | 55.8 | 98 | 27 | Mar. 5 | Nov. 27 |
| *San Bernardino | 52.7 | 52.2 | 53.4 | 60.4 | 63.0 | 71.1 | 75.4 | 78.4 | 71.5 | 64.2 | 56.0 | 48.4 | 62.2 | 109 | 22 | Mar. 13 | Nov. 7 |
| *San Diego | 54.2 | 54.2 | 54.6 | 59.0 | 59.8 | 62.6 | 65.2 | 68.6 | 66.7 | 63.8 | 57.2 | 53.8 | 60.0 | 100 | 36 | ..... | ..... |
| *San Francisco | 51.5 | 51.3 | 51.8 | 56.6 | 54.5 | 56.1 | 57.8 | 57.4 | 61.6 | 59.4 | 54.8 | 49.2 | 55.2 | 94 | 38 | ..... | Dec. 4 |
| San Jacinto | 52.1 | 51.8 | 53.2 | 61.6 | 63.2 | 72.0 | 76.4 | 80.0 | 72.4 | 66.4 | 58.4 | 48.2 | 63.0 | 107 | 20 | Mar. 12 | Oct. 22 |
| *San Jose | 52.4 | 50.7 | 50.5 | 57.2 | 57.0 | 61.4 | 63.8 | 64.6 | 64.8 | 59.3 | 53.4 | 45.8 | 56.7 | 100 | 26 | Jan. 10 | Dec. 4 |
| San Leandro | 51.1 | 50.0 | 50.8 | 57.2 | 56.8 | 60.9 | 62.4 | 62.8 | 63.0 | 58.2 | 52.0 | 46.5 | 56.0 | 97 | 25 | ..... | Nov. 15 |
| *San Luis Obispo | 53.0 | 51.9 | 50.6 | 56.2 | 55.2 | 59.0 | 62.2 | 63.0 | 64.3 | 62.4 | 56.2 | 51.0 | 57.1 | 102 | 29 | ..... | Dec. 4 |
| San Mateo | 54.6 | 53.3 | 53.8 | 61.4 | 62.4 | 66.6 | 68.4 | 67.8 | 67.4 | 62.3 | 56.8 | 49.9 | 60.4 | 98 | 34 | ..... | ..... |
| San Miguel | 50.7 | 51.2 | 52.5 | 62.0 | 65.1 | 71.0 | 76.5 | 77.7 | 71.5 | 62.2 | 54.7 | 47.3 | 61.9 | 102 | 22 | Mar. 23 | Nov. 13 |
| Sanger | 59.8 | 52.8 | 52.1 | 69.2 | 70.4 | 69.6 | 78.9 | 77.4 | 74.3 | 63.1 | 59.1 | 50.1 | 64.7 | 110 | 40 | ..... | ..... |
| Santa Barbara | 53.6 | 52.8 | 52.6 | 56.4 | 56.2 | 60.8 | 63.4 | 66.0 | 62.1 | 62.0 | 55.8 | 51.8 | 57.8 | 100 | 33 | ..... | Dec. 4 |
| Santa Clara | 52.4 | 51.5 | 50.8 | 57.1 | 57.4 | 62.2 | 64.0 | 64.6 | 64.9 | 59.6 | 53.7 | 46.4 | 57.0 | 102 | 26 | Jan. 10 | Nov. 15 |
| Santa Cruz | 51.9 | 49.6 | 50.6 | 55.9 | 55.2 | 58.8 | 59.8 | 60.5 | 61.4 | 59.4 | 53.4 | 48.2 | 55.4 | 100 | 26 | Mar. 20 | Nov. 26 |
| Santa Margarita | 46.0 | 44.9 | 41.8 | 60.5 | 60.2 | ..... | ..... | ..... | 74.5 | 61.4 | 54.8 | 50.6 | ..... | ..... | ..... | Mar. 8 | Oct. 31 |
| Santa Maria | 53.7 | 51.4 | 52.9 | 58.0 | 59.4 | 63.8 | 65.8 | 64.5 | 64.1 | 60.0 | 53.5 | 51.4 | 58.2 | 96 | 31 | ..... | Nov. 15 |
| Santa Monica | 49.0 | 48.2 | 50.4 | 56.0 | 55.1 | 60.0 | 61.4 | 61.9 | 63.0 | 59.6 | 54.8 | 51.3 | 55.9 | 99 | 34 | Mar. 6 | Nov. 6 |
| Santa Rosa | 49.7 | 48.6 | 49.2 | 55.6 | 56.6 | 62.5 | 65.6 | 63.1 | 64.6 | 58.2 | 51.2 | 45.4 | 55.9 | 107 | 24 | ..... | ..... |
| Selma | 49.6 | 59.2 | 50.4 | 64.8 | 71.4 | 75.1 | 82.8 | 79.8 | 72.6 | 62.2 | 49.1 | 45.1 | 62.7 | 102 | 29 | ..... | Nov. 15 |
| Shasta | 43.5 | 41.8 | 47.7 | 66.4 | 65.1 | 75.4 | 78.5 | 79.9 | 74.5 | 59.2 | 48.5 | 42.4 | 60.2 | 109 | 22 | Mar. 21 | Nov. 16 |
| Sierra Madre | 52.8 | 51.8 | 52.9 | 59.9 | 60.6 | 67.9 | 71.5 | 76.4 | 71.1 | 64.8 | 57.2 | 50 1 | 61.4 | 106 | 33 | ..... | ..... |
| *Sisson | 36.2 | 33.6 | 40.2 | 48.2 | 51.0 | 57.6 | 62.3 | 64.9 | 59.6 | 51.5 | 38.4 | 29.7 | 47.8 | 94 | 8 | June 19 | Sept. 29 |
| Soledad | 49.9 | 47.6 | 47.1 | 60.5 | 70.7 | 73.2 | 75.6 | 75.8 | 72.0 | 64.4 | 57.2 | 46.7 | 61.7 | 102 | 22 | ..... | Oct. 31 |
| Sonora | 48.5 | 45.5 | 47.4 | 57.6 | 60.9 | 70.8 | 74.0 | 75.4 | 69.2 | 58.8 | 50.3 | 42.5 | 58.4 | 98 | 25 | ..... | ..... |
| *Southeast Farallon | 49.8 | 51.0 | 50.2 | 50.8 | 50.2 | 51.7 | 52.5 | 53.0 | 54.5 | 56.0 | 53.2 | 50.4 | 51.9 | 81 | 41 | ..... | ..... |
| Stirling City | 38.0 | 35.6 | 39.0 | 50.8 | 55.3 | 67.1 | 67.4 | 70.1 | 63.6 | 53.6 | 39.2 | 38.8 | 51.5 | 93 | 12 | ..... | ..... |
| Stockton | 50.8 | 49.6 | 50.8 | 59.5 | 62.0 | 68.8 | 73.0 | 71.8 | 68.8 | 60.4 | 52.0 | 42.6 | 59.2 | 102 | 26 | ..... | Nov. 16 |
| Storey | 49.5 | 47.9 | 49.5 | 61.1 | 71.2 | 74.0 | 76.5 | 76.7 | 70.9 | 60.6 | 50.0 | 40.0 | 60.7 | 109 | 22 | ..... | ..... |
| Suisun | 51.4 | 52.0 | 49.2 | 61.3 | 76.1 | 74.8 | 76.6 | 72.7 | 70.6 | 62.8 | 54.0 | 45.8 | 62.3 | 109 | 28 | ..... | Nov. 15 |
| Summerdale | 36.8 | 34.4 | 36.0 | 47.2 | 51.1 | 61.4 | 66.4 | 69.2 | 63.6 | 53.9 | 45.6 | 37.0 | 50.2 | 90 | 13 | May 29 | Oct. 30 |
| *Summit | 30.9 | 36.2 | 32.9 | 41.8 | 45.8 | 53.9 | 58.8 | 63.1 | 57.3 | 44.8 | 36.2 | 25.4 | 43.9 | 89 | 2 | June 7 | July 6 |
| Susanville | 35.0 | 39.5 | 41.0 | 47.1 | 52.2 | 60.7 | 63.8 | 66.1 | 57.8 | 49.1 | 39.7 | 28.0 | 48.3 | 93 | 4 | May 13 | Sept. 22 |
| Tamarack | 33.0 | 30.8 | 30.2 | 35.9 | 37.3 | 44.6 | 55.3 | 59.4 | 50.6 | 40.0 | 29.2 | 16.0 | 38.5 | 86 | −24 | June 28 | July 6 |
| Tehachapi | 43.5 | 40.3 | 43.8 | 51.4 | 56.7 | 66.8 | 74.5 | 73.6 | 67.4 | 52.5 | 44.1 | 36.3 | 54.4 | 89 | 25 | ..... | ..... |
| *Tehama | 52.0 | 53.7 | 53.1 | 60.6 | 65.7 | 79.0 | 81.5 | 75.4 | 72.0 | 61.3 | 53.7 | 47.0 | 62.9 | 107 | 30 | ..... | Nov. 15 |
| Towle | 40.6 | 39.6 | 46.0 | 59.4 | 55.2 | 62.8 | 64.4 | 66.6 | 61.5 | 51.6 | 45.6 | 36.6 | 52.5 | 93 | 14 | ..... | ..... |
| Tracy | 46.6 | 39.8 | 40.8 | 64.8 | 76.6 | 73.1 | 74.2 | 78.6 | 80.2 | 73.6 | ..... | 43.1 | ..... | 100 | 22 | Feb. 16 | Nov. 15 |
| Truckee | 30.0 | 29.6 | 34.4 | 44.4 | 45.6 | 52.4 | 59.5 | 55.5 | 46.2 | 32.6 | 24.5 | 17.2 | 39.3 | 86 | −12 | ..... | ..... |
| Tulare | 52.6 | 49.3 | 51.3 | 60.4 | 64.1 | 72.0 | 76.2 | 76.8 | 72.0 | 63.0 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Ukiah | 48.0 | 47.2 | 48.8 | 58.8 | 59.5 | 66.0 | 68.9 | 71.5 | 67.4 | 59.1 | 49.8 | 42.8 | 57.3 | 105 | 24 | ..... | Nov. 7 |
| Upland | 52.4 | 50.8 | 53.4 | 60.7 | 62.0 | 69.7 | 73.2 | 76.4 | 69.8 | 63.2 | 54.2 | 47.1 | 61.1 | 106 | 26 | Jan. 24 | Dec. 4 |
| Upper Lake | 44.4 | 44.2 | 47.0 | 59.4 | 61.4 | 68.4 | 72.4 | 73.6 | 69.1 | 58.4 | 48.6 | 42.4 | 57.5 | 102 | 22 | Mar. 21 | Nov. 14 |
| Vacaville | 50.2 | 50.0 | 51.7 | 59.4 | 62.4 | 69.6 | 72.4 | 72.8 | 70.2 | 62.2 | 53.2 | 45.7 | 60.0 | 107 | 25 | Mar. 5 | Nov. 15 |
| Valley Springs | 53.2 | 52.0 | 53.5 | 64.2 | 66.6 | 72.7 | 76.8 | 78.6 | ..... | 65.0 | 55.9 | 47.2 | ..... | 104 | 31 | ..... | ..... |
| Visalia | 55.4 | 55.4 | ..... | ..... | 64.8 | 75.0 | 79.6 | 79.9 | 77.2 | 66.4 | 59.6 | 49.0 | ..... | 100 | ..... | ..... | ..... |
| Warner Springs | 49.0 | 47.8 | 47.1 | 55.0 | 57.6 | 67.2 | 71.1 | 74.0 | 67.7 | 61.4 | 54.4 | 45.6 | 58.2 | 96 | 22 | Feb. 26 | Nov. 10 |
| Wasco | 50.2 | 49.6 | 49.6 | 60.0 | 65.4 | 76.0 | 78.6 | 75.4 | 70.8 | 58.2 | 52.5 | 45.9 | 61.0 | 109 | 26 | ..... | ..... |
| Watsonville | 47.0 | 46.6 | 46.7 | 52.7 | 52.8 | 55.8 | 57.0 | 55.0 | 58.2 | 57.2 | 54.0 | 48.8 | 52.6 | 80 | 23 | Mar. 30 | Nov. 15 |
| Westley | 53.6 | 53.5 | 54.1 | 70.8 | 70.9 | 79.2 | 85.7 | 83.1 | 78.3 | 66.9 | ..... | 46.5 | ..... | 103 | 30 | ..... | ..... |
| Wheatland | 51.5 | 50.2 | 50.6 | 59.8 | 64.2 | 71.6 | 74.4 | 73.9 | 70.2 | 61.4 | 52.5 | 43.0 | 60.3 | 101 | 27 | Mar. 31 | Nov. 15 |
| Willows | 49.6 | 47.8 | 51.0 | 60.0 | 64.4 | 73.5 | 75.4 | 74.1 | 71.9 | 61.9 | 51.9 | 43.2 | 60.4 | 105 | 24 | Jan. 11 | Nov. 15 |
| Yosemite | 36.0 | 35.2 | 39.2 | 51.8 | 54.4 | 65.1 | 67.6 | 68.8 | 62.4 | ..... | 37.0 | 30.4 | ..... | 99 | 9 | May 15 | ..... |
| *Colorado.* | | | | | | | | | | | | | | | | | |
| Amethyst (near) | 15.2 | 15.5 | 22.8 | 32.4 | b42.4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Arriba (near) | 26.4 | 28.4 | 34.5 | 41.6 | 51.4 | 63.0 | 70.2 | 70.8 | 60.2 | 48.5 | 37.7 | ..... | ..... | 92 | ..... | May 9 | Oct. 8 |
| Ashcroft | 21.4 | 16.6 | 22.6 | 28.0 | 38.6 | 52.4 | 57.2 | 55.7 | 47.4 | 39.6 | 29.4 | 10.6 | 35.0 | 84 | −25 | June 22 | Sept. 12 |
| Blaine | 35.8 | 36.0 | 40.8 | 50.1 | 58.2 | 72.2 | 78.4 | 78.8 | 66.5 | 54.2 | 46.4 | 24.8 | 53.5 | 103 | −13 | May 1 | Oct. 26 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. Mean. | Annual. Extremes. | | Killing frost. Last in spring. | Killing frost. First in autumn. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Max. | Min. | | |
| *Colorado*—Continued. | | | | | | | | | | | | | | | | | |
| Blanca | a27.8 | 25.0 | 30.7 | 37.8 | 45.8 | 59.2 | 65.7 | 62.2 | 55.0 | a45.3 | 34.1 | 11.8 | 41.7 | 90 | −27 | June 10 | Sept. 14 |
| Boulder | 37.6 | 35.0 | 33.9 | 41.9 | 53.8 | 65.2 | 71.2 | 72.3 | 62.2 | 53.9 | 43.8 | 19.9 | 49.2 | 91 | −14 | May 1 | Oct. 9 |
| Breckenridge | ..... | ..... | ..... | b37.2 | 47.8 | a53.8 | 53.8 | a44.6 | b37.7 | 27.8 | 8.0 | ..... | ..... | 79 | −36 | July 28 | Sept. 12 |
| Buena Vista | 27.6 | 23.7 | 31.3 | 37.6 | 45.6 | 54.6 | 62.0 | 55.2 | ..... | ..... | ..... | 17.2 | ..... | 85 | −20 | June 14 | Aug. 20 |
| Burlington | 27.3 | 32.5 | a37.5 | 44.6 | 55.8 | 66.8 | 73.5 | 75.4 | ..... | 53.3 | 42.4 | 17.4 | ..... | 97 | −10 | May 2 | Oct. 7 |
| Calhan | 31.0 | 28.2 | a32.2 | 39.0 | 48.2 | 60.8 | 68.2 | 67.6 | 56.4 | 47.5 | 37.4 | c19.8 | 44.7 | 90 | −14 | May 15 | Oct. 9 |
| Canon City | 41.4 | 39.0 | 42.4 | 48.6 | 57.2 | 70.3 | 77.0 | 76.2 | 66.0 | 56.1 | 46.6 | 27.6 | 54.0 | 99 | −11 | May 1 | Oct. 9 |
| Castle Rock | 35.0 | 29.3 | ..... | 39.2 | 49.3 | 60.8 | 67.2 | 65.9 | 55.0 | 47.6 | 40.7 | 17.1 | ..... | 90 | −26 | May 15 | Sept. 22 |
| Cheesman | 35.6 | 30.0 | 33.8 | 41.0 | 50.0 | 62.6 | 68.6 | 66.8 | 57.6 | 49.8 | 40.6 | 23.4 | 46.6 | 90 | −15 | May 15 | Sept. 23 |
| Cheyenne Wells | 26.4 | 33.3 | 35.8 | 45.6 | 55.8 | 66.2 | 74.6 | 74.2 | 62.8 | 51.0 | 40.6 | 17.6 | 48.7 | 97 | −11 | May 9 | Oct. 9 |
| Chromo | 24.2 | 20.3 | 29.2 | 38.6 | 44.7 | 56.8 | 63.2 | 62.5 | 52.5 | 43.0 | 33.4 | 13.6 | 40.2 | 90 | −28 | July 11 | Sept. 14 |
| Collbran | 28.2 | 26.6 | 36.4 | 41.4 | 50.2 | 63.2 | 69.0 | 67.8 | 58.0 | 50.8 | 36.8 | 16.9 | 45.4 | 91 | −10 | May 12 | Sept. 22 |
| *Colorado Springs | 34.6 | 31.5 | 35.0 | 41.0 | 50.7 | 62.6 | 68.6 | 68.0 | 57.5 | 50.0 | 40.2 | 21.8 | 46.8 | 94 | −15 | May 9 | Oct. 9 |
| Cope | ..... | ..... | 37.4 | 45.4 | 53.6 | 66.8 | 72.6 | 74.6 | d62.4 | 51.3 | 41.8 | 16.6 | ..... | 97 | −18 | May 15 | Oct. 11 |
| *Corona | 13.6 | 7.5 | 13.0 | 16.2 | 24.2 | 41.0 | 50.0 | 48.4 | 38.2 | 29.9 | 21.4 | 2.6 | 25.5 | 64 | −23 | July 12 | Sept. 9 |
| Crawford (near) | ..... | ..... | ..... | ..... | ..... | 64.4 | 70.0 | 67.6 | 58.1 | 49.6 | 37.2 | 17.1 | ..... | 90 | ..... | ..... | Sept. 22 |
| Delta | 31.2 | 31.7 | 42.2 | 48.4 | 55.7 | 69.0 | 75.5 | 74.0 | 63.9 | 54.8 | 42.0 | 17.4 | 50.5 | 101 | −24 | May 15 | Sept. 23 |
| *Denver | 36.6 | 33.2 | 37.0 | 43.2 | 53.3 | 65.7 | 73.0 | 72.6 | 61.2 | 52.4 | 42.7 | 21.2 | 49.3 | 95 | −13 | May 6 | Oct. 9 |
| Dolores | 34.0 | 31.2 | 41.1 | 46.2 | d51.6 | 65.2 | 74.9 | 68.6 | 59.0 | 53.8 | 34.8 | ..... | ..... | 93 | ..... | May 25 | Sept. 21 |
| Dunkley | 24.4 | 20.0 | ..... | ..... | ..... | ..... | f68.4 | f67.4 | ..... | ..... | ..... | ..... | ..... | 92 | ..... | ..... | ..... |
| *Durango | 29.7 | 27.2 | 35.2 | 42.8 | 49.9 | 63.4 | 68.9 | 66.8 | 57.4 | 49.9 | 36.8 | 16.6 | 45.4 | 94 | −12 | May 24 | Sept. 23 |
| Eads | 30.8 | 34.6 | 30.4 | 46.2 | 57.1 | 68.6 | 75.6 | 75.0 | b67.6 | 53.3 | 40.2 | 20.6 | 50.8 | 97 | −18 | May 11 | Oct. 8 |
| Eagle | 22.2 | 19.2 | 30.6 | 36.4 | 46.8 | e55.7 | 63.8 | 64.5 | 53.4 | 44.0 | 33.9 | e10.6 | 40.1 | 92 | −28 | June 11 | Sept. 14 |
| Edgewater | 35.7 | 31.2 | ..... | 43.6 | 51.5 | 62.4 | 69.2 | 70.8 | 60.8 | 52.2 | 41.6 | 20.2 | ..... | 94 | −20 | May 9 | Oct. 9 |
| *Florence | 39.0 | 38.1 | 42.4 | 48.6 | 58.7 | 72.9 | ..... | 79.8 | 68.4 | 55.2 | 46.6 | 27.4 | ..... | 102 | − 3 | May 3 | Oct. 9 |
| Fort Collins | 30.0 | 26.8 | 34.8 | 41.8 | 51.8 | 64.3 | 70.4 | 70.2 | 58.8 | 49.6 | 37.8 | 18.4 | 46.2 | 94 | −19 | May 15 | Sept. 24 |
| Fort Morgan | 25.5 | b26.7 | a36.0 | a44.7 | b55.4 | a67.6 | a74.6 | 73.0 | a61.2 | 50.5 | 37.9 | 16.8 | 47.5 | 98 | −20 | May 15 | Sept. 24 |
| Frances | 27.6 | 22.2 | 29.2 | 32.8 | a41.4 | 56.3 | 63.0 | a62.0 | a51.3 | 44.4 | 35.4 | 18.0 | 40.3 | 84 | −12 | May 30 | Sept. 19 |
| *Fraser | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 4.4 | ..... | ..... | ..... | ..... | ..... |
| *Fruita | 26.4 | 32.8 | 41.3 | 46.2 | 55.8 | 68.6 | 74.2 | 73.8 | 62.2 | 51.8 | 38.6 | 13.3 | 48.8 | 100 | −21 | May 3 | Sept. 22 |
| Frys Ranch | ..... | ..... | ..... | ..... | a45.9 | 57.0 | 61.2 | 61.0 | 53.4 | 46.8 | 36.8 | 21.3 | ..... | 85 | ..... | May 27 | Sept. 19 |
| Garnett | 23.8 | 24.2 | 31.7 | 38.6 | 46.6 | 60.0 | 64.6 | 63.2 | 54.7 | 44.8 | 32.3 | 10.0 | 41.2 | 91 | −33 | June 9 | Sept. 14 |
| Glen Eyrie | 33.0 | 30.2 | 34.0 | 40.3 | 50.0 | 61.4 | 67.0 | 67.4 | 56.7 | 48.6 | 39.3 | 20.8 | 45.7 | 91 | −21 | May 17 | Sept. 23 |
| Glenwood Springs (near) | 27.0 | 22.3 | 35.7 | 42.4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 14.6 | ..... | ..... | −22 | ..... | Sept. 15 |
| *Grand Junction | 30.2 | 34.6 | 43.4 | 48.4 | 58.2 | 72.7 | 78.4 | 76.2 | 64.6 | 55.2 | 40.8 | 17.1 | 51.6 | 100 | −15 | May 1 | Oct. 9 |
| Grand Valley | 29.5 | 29.5 | 40.2 | 45.0 | 54.6 | 66.4 | 72.6 | 72.5 | 62.3 | 51.6 | 37.1 | 17.0 | 48.2 | 99 | −15 | May 6 | Oct. 9 |
| Greeley | 27.4 | 29.2 | 37.2 | 44.2 | 55.2 | 67.2 | 73.6 | 73.8 | 61.9 | 51.8 | 39.9 | 17.6 | 48.2 | 98 | −16 | May 15 | Oct. 9 |
| Gunnison | 10.3 | 6.6 | 17.5 | d33.4 | ..... | 54.9 | 62.9 | 63.4 | 54.1 | 41.4 | 28.6 | 1.5 | ..... | 89 | −38 | June 22 | Sept. 20 |
| Hamps | 30.8 | 29.5 | 35.2 | 41.0 | 49.6 | 61.4 | 67.6 | 68.0 | 55.9 | 46.4 | 36.3 | 17.0 | 44.9 | 90 | −20 | May 17 | Oct. 9 |
| Hayden | b22.3 | 20.2 | 28.6 | 36.6 | a47.0 | 60.4 | 64.6 | 66.2 | 54.0 | 49.8 | 24.0 | ..... | ..... | 96 | ..... | May 21 | Sept. 14 |
| Hoehne (near) | 35.9 | 34.2 | 37.6 | 44.5 | 52.2 | 64.0 | 70.4 | 68.6 | 59.9 | 54.0 | 46.8 | ..... | ..... | 101 | ..... | May 1 | Oct. 9 |
| Holly | 33.4 | 37.4 | 41.4 | 52.2 | 60.8 | 73.6 | 77.9 | 78.4 | 68.2 | 55.4 | 43.9 | 23.8 | 53.9 | 101 | −18 | May 9 | Oct. 9 |
| Holyoke (near) | 27.8 | 28.6 | 34.7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Idaho Springs | 32.5 | 27.5 | 31.5 | 36.1 | 45.6 | 58.6 | 64.4 | 64.0 | 54.5 | 48.0 | 39.0 | 21.8 | 43.6 | 86 | − 9 | May 15 | Sept. 22 |
| Kremmling (near) | 20.0 | 12.2 | 24.2 | 34.4 | 44.4 | 56.4 | 62.6 | 62.2 | 52.0 | 43.4 | 31.0 | 9.2 | 37.7 | 88 | −42 | May 27 | Sept. 14 |
| Lake City | 19.8 | 16.2 | 26.0 | 35.0 | 42.4 | 56.2 | 62.0 | 59.9 | 52.0 | 42.6 | 32.8 | 12.1 | 38.1 | 82 | −29 | June 10 | Sept. 14 |
| Lake Moraine | 24.4 | 20.8 | 25.2 | 29.8 | 37.1 | 49.5 | 55.4 | 53.0 | 44.0 | 38.3 | 27.6 | 14.0 | 34.9 | 74 | −23 | July 1 | Sept. 12 |
| Lamar | 33.0 | 37.0 | 41.8 | 51.1 | 61.6 | 74.1 | 80.3 | 80.6 | 68.1 | 54.4 | 44.4 | 23.4 | 54.2 | 104 | −16 | May 1 | Oct. 23 |
| *Las Animas | ..... | 35.0 | 41.3 | 50.6 | 60.6 | 73.0 | 80.4 | e78.8 | 67.0 | 54.8 | 43.3 | 23.2 | ..... | 107 | ..... | May 3 | Oct. 23 |
| Lay | 21.8 | 18.5 | 28.8 | 37.4 | 45.4 | 58.9 | 65.4 | 65.7 | 55.2 | 43.2 | 32.7 | 10.1 | 40.3 | 94 | −36 | June 12 | Sept. 19 |
| *Leadville | 21.8 | 17.6 | 22.4 | 27.8 | 36.0 | 50.2 | 57.0 | 55.6 | 46.4 | 38.8 | 29.2 | 11.2 | 34.5 | 77 | −19 | June 12 | Sept. 13 |
| Leroy (near) | 27.5 | 27.4 | 34.2 | 41.9 | 52.6 | 65.2 | 72.5 | 74.2 | 62.0 | 50.4 | 39.0 | 13.8 | 46.7 | 98 | −14 | May 9 | Oct. 9 |
| Limon (near) | 29.4 | 29.2 | 35.0 | 40.3 | 50.3 | 62.8 | 69.4 | 70.6 | 58.3 | 49.2 | 41.3 | 17.9 | 46.1 | 90 | −15 | May 15 | Oct. 8 |
| Longmont | ..... | ..... | ..... | ..... | ..... | 65.4 | 71.6 | 71.6 | 61.0 | 50.5 | 41.2 | 19.4 | ..... | 96 | ..... | ..... | Oct. 9 |
| Longs Peak (near) | 26.4 | 20.8 | 24.8 | 29.2 | 39.5 | 51.1 | 58.4 | 57.3 | 48.6 | 43.8 | 33.8 | ..... | ..... | 81 | ..... | June 14 | Sept. 15 |
| Lujane | a28.2 | b26.2 | a36.4 | b42.9 | 51.9 | 67.1 | 72.2 | 70.4 | 62.9 | 51.8 | 39.0 | 17.4 | 47.2 | 97 | −15 | May 1 | Oct. 9 |
| Manassa | e29.2 | 25.0 | e31.6 | 39.0 | 46.4 | e59.3 | e64.6 | b62.5 | 54.2 | f46.0 | e34.6 | e11.1 | 41.9 | 87 | −31 | June 9 | Sept. 14 |
| Mancos | 31.8 | 27.4 | 35.8 | 42.0 | 48.6 | 62.0 | 68.3 | 64.6 | 56.4 | 49.2 | 37.1 | 18.4 | 45.1 | 91 | −14 | June 1 | Sept. 13 |
| Marble | 26.4 | 21.6 | 31.4 | 35.2 | 44.0 | 56.0 | 61.7 | 61.2 | 52.6 | 44.2 | 34.5 | 14.9 | 40.3 | 87 | −29 | June 15 | Sept. 14 |
| Meeker (near) | 29.0 | 23.4 | 33.6 | 38.8 | a48.4 | 59.8 | 64.3 | 63.9 | 54.6 | 44.2 | e33.9 | 13.2 | 42.3 | 89 | −30 | June 11 | Sept. 22 |
| Montrose (near) | 28.4 | 29.4 | 37.8 | 44.8 | 49.1 | 61.2 | 68.2 | 66.6 | 57.6 | 48.8 | 37.8 | 14.0 | 45.3 | 93 | −14 | May 18 | Sept. 22 |
| Moraine | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 44.9 | 32.0 | 16.7 | ..... | ..... | ..... | ..... | ..... |
| Nast | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 43.8 | 30.1 | 9.7 | ..... | ..... | ..... | ..... | ..... |
| Pagoda | e28.0 | f27.2 | f30.7 | 37.4 | 46.6 | 58.0 | 64.2 | 64.6 | 54.6 | 45.5 | 32.7 | 12.7 | 41.8 | 91 | −29 | June 12 | Sept. 14 |
| Pagosa Springs | 21.2 | 18.0 | 28.8 | 39.4 | 45.0 | 57.9 | 64.9 | 64.0 | 53.6 | 43.4 | 31.2 | 10.8 | 39.8 | 92 | −35 | June 3 | Sept. 23 |
| Paonia | 30.2 | 28.8 | 40.6 | 45.8 | 55.2 | 68.7 | 74.9 | 73.0 | 61.8 | 53.8 | 40.8 | 18.3 | 49.3 | 99 | −12 | May 1 | Oct. 9 |
| *Pueblo | 35.4 | 34.8 | 39.6 | 46.4 | 56.7 | 69.8 | 76.0 | 74.8 | 62.6 | 52.2 | 43.2 | 20.2 | 51.0 | 102 | −16 | May 2 | Oct. 9 |
| Rangely | 15.6 | 12.6 | 28.4 | 42.1 | 51.6 | 66.0 | 72.2 | 70.4 | 59.0 | b50.1 | 35.6 | 5.4 | 42.3 | 100 | −30 | May 30 | Sept. 24 |
| River Portal | 24.4 | e23.8 | 33.6 | 41.2 | 50.5 | e62.2 | e70.4 | 68.3 | 57.7 | 47.9 | 35.4 | 16.8 | 44.4 | 96 | −11 | May 12 | Sept. 22 |
| Rocky Ford (near) | 34.3 | 34.0 | 39.1 | 49.6 | 57.3 | 69.6 | 76.6 | 75.8 | 64.8 | 53.4 | 41.4 | 22.2 | 51.5 | 102 | −18 | May 3 | Oct. 9 |
| Saguache | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 48.2 | 37.0 | 14.0 | ..... | ..... | ..... | ..... | ..... |
| *Salida | 33.7 | 29.2 | 35.6 | 40.3 | 48.7 | 60.9 | 67.5 | 66.5 | 55.8 | 48.1 | 37.8 | 21.0 | 45.4 | 92 | −20 | May 15 | Sept. 23 |
| San Luis | 29.8 | 25.4 | 34.8 | 40.6 | b46.2 | 58.8 | d64.4 | 62.0 | 53.0 | 46.6 | 35.2 | 15.2 | 42.8 | 87 | −28 | June 10 | Sept. 22 |
| Santa Clara (near) | 34.7 | b30.3 | 33.3 | 40.8 | 47.2 | 59.8 | 65.4 | 63.2 | 55.0 | 48.0 | 39.6 | 21.8 | 44.9 | 93 | −12 | May 9 | Sept. 13 |
| Sapinero | 17.0 | 15.2 | 25.4 | 33.3 | 42.3 | 54.1 | 59.8 | 59.9 | 49.8 | 42.4 | 31.2 | 10.2 | 36.7 | 83 | −27 | June 21 | Sept. 14 |
| Sedgwick | 24.4 | 26.0 | a35.8 | 43.9 | 55.6 | a67.7 | 75.0 | 76.0 | 63.2 | 49.6 | 39.8 | 14.3 | 47.6 | 101 | −15 | May 9 | Oct. 10 |
| Sheridan Lake | 27.0 | 33.9 | 37.3 | e50.0 | 60.2 | 72.2 | e78.6 | b78.8 | 67.8 | 55.1 | 40.0 | 18.0 | 51.6 | 103 | −18 | May 9 | Oct. 9 |
| Sill Mine | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 23.8 | 6.0 | ..... | ..... | ..... | ..... | ..... |
| Silt | ..... | ..... | ..... | ..... | ..... | m66.3 | 71.4 | 67.4 | 59.6 | 50.2 | 37.2 | ..... | ..... | 97 | ..... | ..... | Sept. 23 |
| Silverton | 17.8 | 16.2 | 23.0 | 30.4 | 38.6 | 50.5 | 57.9 | 56.3 | 48.4 | e40.5 | ..... | 13.2 | ..... | 83 | −29 | June 27 | Sept. 14 |
| Silverton No. 2 | 15.0 | 13.0 | 17.8 | 25.8 | 38.0 | 49.6 | 56.7 | 55.0 | 46.4 | 38.4 | 26.4 | 10.0 | 32.7 | 79 | −27 | June 27 | Sept. 12 |
| Steamboat Springs | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | e53.3 | 41.7 | 32.4 | 9.2 | ..... | ..... | −44 | June 12 | Sept. 14 |
| Sterling | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | f33.3 | 15.6 | ..... | ..... | ..... | ..... | ..... |
| Tacoma | 24.8 | 21.2 | 30.4 | 38.2 | 47.8 | 60.2 | 67.0 | 65.4 | 56.2 | 50.8 | 38.8 | 16.5 | 43.1 | 90 | −10 | May 15 | Sept. 24 |
| Victor (near) | 29.6 | 24.2 | 28.7 | 34.1 | 41.8 | 58.4 | 63.4 | 59.4 | 50.5 | 45.6 | 37.8 | 22.7 | 41.3 | 92 | − 3 | June 1 | Sept. 5 |
| Wagon Wheel Gap | 12.4 | 12.2 | 20.8 | 32.8 | 39.7 | 50.4 | ..... | ..... | ..... | ..... | 26.2 | 6.6 | ..... | ..... | −39 | ..... | ..... |
| Waterdale | 33.6 | 31.2 | 36.4 | 43.2 | 52.8 | 64.1 | 70.2 | 70.6 | 59.8 | 51.4 | 40.4 | 21.3 | 47.9 | 95 | −10 | May 15 | Sept. 9 |
| Westcliffe | k32.7 | 26.6 | 32.0 | 38.2 | 45.6 | 59.2 | 65.2 | 62.6 | 52.6 | 45.6 | 35.2 | 15.0 | 42.5 | 89 | −25 | June 3 | Sept. 14 |
| Whitepine | 17.4 | 11.8 | 19.6 | 25.6 | 35.0 | 49.8 | 55.2 | 53.3 | 45.4 | 37.7 | 27.4 | 6.2 | 32.0 | 76 | −27 | June 21 | Sept. 14 |
| Wray | 28.6 | 30.6 | 36.8 | 46.2 | 57.3 | 68.8 | 75.2 | 77.1 | 64.1 | 52.2 | 41.2 | 18.1 | 49.9 | 101 | −19 | May 9 | Oct. 12 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *Connecticut.* | | | | | | | | | | | | | | | | |
| Bridgeport | 31.5 | 34.5 | 36.8 | 47.8 | 58.4 | 68.5 | 71.4 | 69.3 | 63.8 | 51.8 | 45.7 | 29.8 | 50.8 | 96 — 1 | Apr. 25 | Oct. 14 |
| Canton | 26.0 | 28.6 | 31.8 | 44.4 | 55.4 | 64.8 | 66.8 | 64.8 | 58.8 | 47.3 | 42.2 | 24.4 | 46.3 | 90 —11 | May 3 | Sept. 29 |
| Colchester | 29.2 | 31.0 | 33.2 | 45.4 | 55.6 | 66.0 | 68.4 | 66.9 | 61.5 | 48.8 | 43.4 | 25.6 | 47.9 | 93 — 5 | Apr. 30 | Oct. 14 |
| Cream Hill | 25.6 | 28.8 | 30.4 | 39.4 | 54.5 | 67.1 | 67.8 | 64.5 | 60.0 | 48.1 | 41.2 | 23.8 | 45.9 | 91 — 9 | May 3 | Oct. 13 |
| Danielson | 28.0 | 30.0 | 32.0 | 43.0 | 52.8 | 66.0 | 68.2 | 63.9 | 60.5 | 48.4 | 41.9 | 25.1 | 46.8 | 93 — 6 | Apr. 30 | Oct. 13 |
| *Hartford | 29.0 | 32.2 | 35.0 | 46.8 | 57.5 | 68.2 | 70.8 | 68.6 | 62.5 | 51.0 | 44.8 | 28.2 | 49.6 | 93 — 2 | Apr. 30 | Oct. 20 |
| Hawleyville | 29.8 | 32.8 | 34.6 | 46.8 | 57.0 | 66.0 | 68.4 | 65.8 | 60.7 | 49.7 | 44.8 | 26.6 | 48.6 | 91 — 4 | Apr. 30 | Oct. 13 |
| *New Haven | 30.7 | 34.3 | 36.5 | 47.2 | 57.4 | 68.8 | 71.0 | 68.8 | 62.8 | 51.6 | 46.2 | 30.2 | 50.5 | 93 1 | Apr. 12 | Oct. 20 |
| New London | 32.0 | 34.0 | 35.8 | 46.9 | 56.7 | 66.8 | 70.2 | 68.1 | 62.9 | 52.4 | 47.4 | 30.6 | 50.3 | 92 .0 | Apr. 29 | Oct. 20 |
| N. Grosvenor Dale | 26.4 | 29.4 | 33.4 | 45.4 | 56.0 | 66.0 | 68.1 | 66.4 | 61.3 | 48.6 | 42.2 | 26.0 | 47.4 | 93 — 9 | May 2 | Oct. 13 |
| Norwalk | 29.2 | 33.0 | 34.2 | 44.0 | 58.2 | 67.0 | 70.6 | 67.8 | 62.0 | 49.8 | 43.5 | 27.2 | 48.9 | 96 — 4 | May 3 | Oct. 19 |
| Southington | 29.3 | 31.9 | 34.6 | 46.4 | 56.6 | 66.6 | 68.4 | 66.7 | 61.0 | 50.0 | 44.6 | 26.8 | 48.6 | 92 — 7 | Apr. 30 | Oct. 20 |
| Storrs | 28.6 | 31.2 | 32.7 | 46.6 | 55.8 | 66.0 | 67.0 | 67.5 | 60.4 | ..... | ..... | 26.6 | ..... | 90 — 5 | Apr. 30 | ..... |
| Voluntown | 30.4 | 33.2 | 35.0 | 46.0 | 55.8 | 65.0 | ..... | ..... | 61.2 | 48.8 | 44.2 | 26.8 | ..... | ..... | June 9 | Oct. 5 |
| Waterbury | 30.4 | 32.6 | 35.8 | 47.6 | 58.0 | 68.4 | 70.4 | 69.1 | 63.0 | 50.4 | 45.2 | 28.0 | 49.9 | 95 — 3 | Apr. 30 | Oct. 13 |
| *Delaware.* | | | | | | | | | | | | | | | | |
| Delaware City | 34.2 | 41.4 | 40.5 | 52.6 | 63.0 | 71.6 | 73.9 | 72.0 | 66.6 | 53.3 | 49.3 | 31.4 | 54.2 | 94 3 | Apr. 12 | Oct. 13 |
| Dover | 37.8 | 43.3 | 41.8 | 54.4 | 64.0 | 73.0 | 74.0 | 72.3 | 66.8 | 53.2 | 49.2 | 31.8 | 55.1 | 97 3 | Apr. 12 | Oct. 14 |
| Milford | 39.4 | 44.9 | 43.4 | 54.8 | 64.5 | 72.8 | 74.5 | 72.8 | 67.4 | 53.5 | 50.1 | 32.9 | 55.9 | 97 6 | Apr. 12 | Oct. 14 |
| Millsboro | 40.0 | 43.3 | 41.9 | 53.8 | 63.1 | 72.6 | 73.2 | 72.1 | 66.1 | 53.1 | 49.9 | 32.4 | 55.1 | 98 10 | May 3 | Oct. 14 |
| Seaford | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 65.6 | 52.7 | 49.4 | 32.0 | ..... | ..... | 9 Apr. 12 | Oct. 20 |
| *District of Columbia.* | | | | | | | | | | | | | | | | |
| *Washington | 36.0 | 43.0 | 42.1 | 54.4 | 64.4 | 73.4 | 74.7 | 73.0 | 66.3 | 53.1 | 50.8 | 31.8 | 55.2 | 96 8 | Apr. 12 | Oct. 20 |
| *Florida.* | | | | | | | | | | | | | | | | |
| Apalachicola | 58.6 | a56.4 | 63.9 | 68.4 | 72.1 | 80.7 | 81.5 | 82.1 | 78.0 | 70.2 | 65.0 | 52.6 | 69.1 | 99 22 | Feb. 1 | Dec 23 |
| *Arcadia | 66.0 | 63.7 | 69.0 | 73.9 | 78.0 | 81.2 | 81.2 | 80.8 | 78.8 | 73.4 | 67.9 | 60.8 | 72.9 | 97 22 | Feb. 5 | Dec 15 |
| Archer | ..... | 57.5 | j65.0 | ..... | ..... | ..... | 82.0 | 82.3 | ..... | ..... | ..... | 55.0 | ..... | ..... | 19 Feb. 18 | Dec. 10 |
| Avon Park | 66.1 | 64.1 | 69.6 | 73.0 | 77.6 | 81.4 | 81.4 | 81.6 | 79.4 | 74.0 | 68.9 | 60.9 | 73.2 | 97 25 | Feb. 1 | Dec. 27 |
| Bartow | 64.7 | 62.8 | 69.2 | 73.4 | 77.2 | 81.8 | 81.6 | 82.4 | 80.0 | 72.8 | 66.4 | 56.8 | 72.4 | 98 22 | Feb. 4 | Dec. 15 |
| Blountstown | ..... | a54.6 | 63.6 | 67.7 | 73.0 | 80.8 | a81.6 | 82.3 | 77.8 | ..... | ..... | 49.0 | ..... | 100 ..... | | Nov. 19 |
| Boniface | 57.4 | a54.2 | 62.4 | c67.8 | 72.7 | a80.6 | 81.1 | 83.2 | 79.3 | 67.8 | 62.6 | 49.6 | 68.2 | 99 17 | Feb. 17 | Nov. 19 |
| Brooksville | 65.2 | a62.4 | 68.2 | c74.0 | 76.4 | 82.2 | 80.0 | 82.8 | 80.0 | ..... | 68.0 | a58.3 | ..... | 100 22 | Feb. 1 | Dec. 27 |
| Carrabelle | 57.0 | 54.2 | ..... | ..... | 73.0 | 79.0 | 81.4 | 82.2 | 77.6 | 69.9 | c67.4 | ..... | ..... | 97 18 | Feb. 26 | ..... |
| Cedar Keys | 62.8 | 59.0 | 65.4 | 72.2 | 75.7 | 82.0 | 81.6 | 83.8 | 80.6 | 73.2 | 67.8 | 55.5 | 71.6 | 93 23 | Feb. 1 | Dec. 30 |
| Clermont | 65.4 | 63.6 | 69.6 | b74.0 | c78.2 | 82.2 | 82.2 | 82.0 | 80.1 | ..... | 68.7 | 58.6 | ..... | 98 25 | Feb. 1 | Dec. 30 |
| De Funiak Springs | 57.4 | 55.7 | a61.8 | 67.6 | 71.4 | 80.5 | 81.3 | 82.8 | ..... | b69.5 | ..... | a50.2 | ..... | 100 17 | Feb. 17 | Dec. 9 |
| De Land | 62.4 | 59.9 | ..... | ..... | b74.5 | 80.1 | 79.4 | 80.0 | ..... | 69.4 | 64.6 | 55.1 | ..... | 96 19 | Feb. 4 | Dec. 10 |
| Eustis | 64.2 | 61.4 | 68.5 | 73.0 | 76.5 | 82.4 | 81.2 | 83.0 | 79.0 | a72.0 | 66.0 | 56.7 | 72.0 | 99 22 | Feb. 1 | Dec. 27 |
| Federal Point | 62.4 | 60.0 | 65.7 | 71.4 | 74.5 | 81.0 | 81.7 | 81.6 | 78.2 | 70.4 | 65.8 | 54.4 | 70.6 | 100 22 | Feb. 4 | Dec. 27 |
| Fenholloway | 61.2 | 56.8 | ..... | i67.4 | 71.6 | ..... | ..... | i83.8 | ..... | ..... | ..... | 49.8 | ..... | ..... | 17 Feb. 26 | Nov. 19 |
| Fernandina | 58.8 | 59.2 | 63.8 | 69.0 | 73.0 | 79.8 | 81.0 | 81.8 | 77.1 | 71.0 | 66.2 | 52.4 | 69.4 | 98 19 | Feb. 1 | Dec. 30 |
| Fort Meade | 64.6 | 62.4 | 68.8 | 73.2 | 77.0 | 81.0 | a81.2 | 81.4 | 79.8 | 72.6 | 67.4 | 58.4 | 72.3 | 98 21 | Feb. 4 | Dec. 10 |
| Fort Myers | 65.8 | 63.0 | 69.2 | 73.2 | 77.4 | 80.0 | 80.2 | 80.4 | 78.8 | 74.9 | 68.6 | 61.2 | 72.7 | 92 31 | None. | Dec. 30 |
| Fort Pierce | a67.1 | a66.3 | 69.4 | a73.2 | 77.2 | b80.8 | b80.9 | 81.6 | 80.3 | 75.9 | 70.0 | 62.0 | 73.7 | 98 28 | Feb. 1 | Dec. 27 |
| *Gainesville | 60.4 | 58.2 | 65.0 | 71.7 | 75.0 | 82.0 | 80.1 | 81.7 | 78.4 | 71.0 | b65.6 | 52.4 | ..... | 99 19 | Feb. 3 | Dec. 10 |
| Grasmere | ..... | b62.4 | 67.6 | 73.0 | 75.6 | 81.2 | 80.6 | 81.4 | 78.6 | 72.0 | 66.4 | 56.1 | ..... | 97 21 | Feb. 1 | Dec. 15 |
| Hilliard | 58.3 | 56.8 | 63.2 | 69.2 | 75.0 | 80.2 | 79.7 | 80.8 | 75.8 | 68.4 | 62.9 | 49.4 | 68.3 | 98 17 | Feb. 10 | Nov. 24 |
| Huntington | 62.1 | 60.0 | 66.7 | 72.8 | ..... | ..... | ..... | ..... | c77.6 | 69.8 | 65.0 | b62.4 | ..... | 19 | Feb. 1 | Dec. 9 |
| Hypoluxo | 68.8 | 68.2 | 71.6 | 75.2 | 77.9 | 81.0 | 80.8 | 82.4 | 79.7 | 76.4 | 73.0 | 65.4 | 75.0 | 97 31 | None. | Dec. 27 |
| Inverness | 61.0 | 57.2 | e65.2 | 71.6 | 74.0 | 80.4 | 78.8 | 81.2 | 78.0 | 70.1 | 63.6 | 53.6 | 69.6 | 98 18 | Feb. 8 | Dec. 27 |
| *Jacksonville | 59.3 | 58.2 | 63.6 | 69.8 | 73.8 | 80.4 | 80.8 | 81.7 | 77.0 | 70.2 | 64.8 | 51.4 | 69.2 | 97 19 | Feb. 1 | Dec. 10 |
| Jasper | ..... | ..... | ..... | 69.6 | ..... | ..... | 79.3 | ..... | ..... | ..... | ..... | 49.1 | ..... | ..... | Feb. 26 | Nov. 19 |
| Johnstown | a58.4 | 56.0 | 65.0 | 70.1 | b73.4 | 80.4 | 81.0 | 82.1 | 77.8 | 69.1 | 63.4 | 51.6 | 69.0 | 102 18 | Feb. 26 | Nov. 19 |
| *Jupiter | 68.6 | 66.6 | 70.3 | 73.7 | 77.0 | 80.4 | 80.6 | 81.7 | 80.1 | 76.6 | 72.0 | 63.8 | 74.3 | 95 30 | None. | Dec. 27 |
| *Key West | 71.0 | 70.3 | 74.6 | 76.6 | 79.9 | 80.8 | 83.0 | 81.8 | 80.6 | 77.4 | 73.4 | 69.2 | 76.6 | 91 47 | None. | None. |
| Kissimmee | 65.0 | 62.1 | 68.0 | 72.7 | 75.7 | 80.8 | 80.8 | 81.4 | 79.2 | 72.4 | 67.6 | 58.2 | 72.0 | 94 24 | Feb. 1 | Dec. 27 |
| *Lake City | 59.6 | 57.6 | 64.2 | 69.4 | 73.5 | 80.0 | 79.8 | 81.7 | 77.6 | 68.4 | 65.2 | 51.1 | 69.0 | 97 16 | Mar. 5 | Dec. 10 |
| Live Oak | ..... | ..... | ..... | 71.0 | 75.4 | ..... | ..... | ..... | ..... | ..... | ..... | 50.2 | ..... | ..... | 17 Mar. 1 | ..... |
| Macclenny | a58.4 | 56.4 | b63.2 | b68.5 | b72.9 | e79.4 | i80.2 | b81.0 | d76.2 | f66.8 | a62.4 | a50.6 | 68.0 | 97 18 | Mar. 5 | Nov. 19 |
| *Madison | 58.2 | 56.7 | 63.2 | 69.8 | 75.2 | 82.0 | 80.4 | 82.3 | 78.6 | 69.4 | 64.6 | 48.4 | 69.1 | 100 16 | Feb. 3 | Dec. 10 |
| Malabar | 66.8 | 64.4 | 68.6 | 73.0 | 76.8 | 81.9 | 81.8 | 83.0 | 80.9 | a76.2 | 70.9 | a60.0 | 73.7 | 101 24 | Feb. 1 | Dec. 27 |
| Manatee | 65.8 | 62.9 | 68.0 | 72.2 | 76.2 | b80.9 | 81.0 | 82.2 | 79.8 | 73.9 | 68.4 | 56.9 | 72.4 | 98 29 | Feb. 1 | Dec. 10 |
| *Marianna | 57.0 | d53.0 | 61.8 | 67.4 | 72.6 | 80.7 | b81.5 | b82.6 | i79.9 | ..... | ..... | ..... | ..... | 100 ..... | Feb. 26 | ..... |
| Merritts Island | 68.0 | 65.0 | 69.0 | 73.7 | 76.4 | 81.2 | 81.0 | 82.0 | f78.6 | 75.4 | 69.9 | 59.3 | 73.3 | 96 28 | Feb. 1 | Dec. 30 |
| Miami | 69.6 | 69.7 | 73.4 | 76.6 | 79.3 | 81.6 | 81.8 | 82.5 | 81.1 | 77.4 | 73.1 | 67.0 | 76.1 | 96 33 | None. | Dec. 30 |
| Middleburg | b60.0 | ..... | ..... | ..... | ..... | d79.8 | d81.0 | a82.0 | ..... | a68.6 | a63.7 | f50.8 | ..... | ..... | 18 ..... | Dec. 10 |
| Molino | 56.6 | 54.4 | 63.2 | 66.0 | 70.6 | i78.9 | 81.6 | 81.8 | 76.6 | 66.2 | 61.0 | 47.8 | 67.1 | 102 16 | Feb. 17 | Nov. 19 |
| Monticello | 58.7 | 56.4 | 62.4 | 67.8 | 73.7 | 80.2 | 79.7 | 80.8 | 77.8 | 70.0 | e65.5 | 50.4 | 68.6 | 99 18 | Feb. 2 | Dec. 10 |
| Mount Pleasant | 60.0 | ..... | 62.3 | 66.6 | 71.9 | b79.6 | 79.6 | ..... | 75.9 | 67.8 | 62.8 | ..... | ..... | ..... | Feb. 28 | Nov. 19 |
| Newport | 57.6 | 52.8 | a61.6 | 66.7 | 71.3 | 78.2 | 79.4 | 80.2 | 77.0 | ..... | ..... | 49.6 | ..... | 96 18 | Feb. 26 | Nov. 19 |
| New Smyrna | 63.2 | 62.1 | 66.6 | 71.9 | 73.4 | 79.8 | 79.9 | 81.0 | 77.2 | 72.6 | 67.8 | 57.4 | 71.1 | 98 25 | Feb. 1 | Dec. 30 |
| Ocala | b61.4 | 60.0 | 65.6 | 72.1 | 75.7 | a82.2 | 81.2 | 82.6 | 79.2 | 71.0 | 65.4 | 55.4 | 71.0 | 100 19 | Feb. 26 | Dec. 10 |
| Orange City | 63.3 | b61.1 | 67.1 | 72.4 | 75.4 | 82.1 | 81.4 | 84.1 | ..... | ..... | ..... | ..... | ..... | 102 18 | Feb. 1 | Dec. 10 |
| Orlando | 64.8 | 62.2 | 68.4 | 73.2 | 75.5 | 81.1 | 81.0 | 81.6 | 78.1 | 71.8 | 62.0 | 57.8 | 71.9 | 96 21 | Feb. 5 | Dec. 27 |
| *Pensacola | 56.6 | 56.2 | 62.8 | 66.5 | 71.4 | 80.0 | 81.5 | 81.1 | 77.8 | 69.8 | 64.4 | 50.2 | 68.2 | 97 21 | Jan. 8 | Dec. 21 |
| Plant City | 65.8 | 62.2 | 68.8 | 73.2 | 75.6 | 81.2 | 80.6 | 81.4 | 78.6 | 71.2 | 66.2 | e56.5 | 71.8 | 98 22 | Feb. 1 | Dec. 27 |
| Rockledge | 67.2 | 64.0 | 67.6 | 71.9 | 75.0 | 80.6 | 80.2 | 81.8 | 78.4 | 73.8 | 69.0 | 58.7 | 72.4 | 95 28 | Feb. 1 | Dec. 31 |
| Rockwell | e64.2 | ..... | f64.4 | d72.4 | e76.6 | d82.2 | d80.1 | e82.3 | d79.2 | e70.6 | e64.8 | ..... | ..... | 100 ..... | | ..... |
| St. Andrew | 57.1 | 54.4 | 62.8 | 68.4 | 72.4 | 81.4 | 82.7 | 82.6 | 77.8 | 68.0 | 62.2 | 49.8 | 68.3 | 97 20 | Feb. 26 | Nov. 19 |
| St. Augustine | 60.6 | 59.7 | 65.2 | 70.8 | 73.8 | 80.6 | 80.8 | 81.6 | 77.8 | 72.0 | 66.0 | 54.0 | 70.2 | 97 19 | Feb. 1 | Dec. 10 |
| *Sand Key | 71.1 | 69.5 | 73.6 | 75.7 | 79.2 | 80.4 | 81.8 | 81.3 | 80.5 | ..... | ..... | ..... | ..... | 94 ..... | None. | ..... |
| St. Leo | 64.2 | 61.4 | 67.7 | 72.8 | 76.0 | 80.1 | 80.0 | 81.4 | 78.6 | 72.1 | 67.0 | 56.8 | 71.5 | 96 22 | Feb. 1 | Dec. 10 |
| Satsuma Heights | 60.4 | 58.5 | 62.9 | 71.0 | 73.8 | 80.4 | 80.3 | 81.2 | 76.3 | 68.8 | 63.4 | 51.8 | 69.1 | 97 19 | Feb. 26 | Dec. 10 |
| Switzerland | e60.2 | a58.0 | 64.0 | c71.0 | b73.2 | 79.5 | e80.3 | a80.6 | 76.7 | b69.8 | e65.0 | b52.9 | 69.3 | 95 21 | Feb. 4 | Dec. 10 |
| *Tallahassee | 57.8 | 55.4 | 62.0 | 67.9 | 72.6 | 79.2 | 79.6 | 80.6 | 76.4 | 67.3 | 63.6 | 47.8 | 67.6 | 96 18 | Feb. 2 | Dec. 8 |
| *Tampa | 65.2 | 61.6 | 67.6 | 72.9 | 76.4 | 81.0 | 80.4 | 81.4 | 79.7 | 72.6 | 67.6 | 57.6 | 72.0 | 94 26 | Feb. 1 | Dec. 30 |
| Tarpon Springs | 64.7 | 61.0 | 67.1 | 72.8 | 75.9 | 80.5 | 80.0 | 82.0 | 79.9 | 73.1 | 67.4 | 57.6 | 71.8 | 96 23 | Feb. 1 | Dec. 30 |
| Titusville | 65.0 | a61.9 | ..... | ..... | f76.4 | ..... | 82.6 | 83.6 | 79.7 | f73.8 | ..... | b60.2 | ..... | ..... | 24 Feb. 1 | Dec. 27 |
| Wausau | 57.2 | 55.2 | 61.8 | 67.8 | 73.8 | 81.8 | 82.7 | 83.6 | 79.0 | ..... | ..... | a50.0 | ..... | 103 16 | Feb. 17 | Nov. 18 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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.* | | | | | | | | | | | | | | | | | |
| Adairsville | b47.8 | d48.6 | b53.6 | d60.8 | b67.6 | 76.2 | a77.3 | d77.6 | f70.0 | f60.6 | a53.9 | b36.6 | 60.9 | 95 | 8 | Apr. 10 | Oct. 13 |
| *Albany | 53.6 | 54.8 | 60.5 | 66.4 | 72.5 | 81.0 | 81.3 | 83.4 | 77.1 | 67.0 | 63.3 | 47.6 | 67.4 | 99 | 14 | Feb. 17 | Nov. 18 |
| *Allapaha | a57.7 | a58.0 | a64.0 | 69.8 | 75.4 | 83.5 | 82.9 | 83.5 | 76.6 | a65.6 | 61.6 | 49.1 | 69.0 | 100 | 15 | Feb. 4 | Nov. 19 |
| *Americus | a50.8 | 51.3 | 56.8 | 65.2 | a72.1 | 81.3 | 81.3 | 81.0 | 74.4 | 63.6 | ..... | ..... | ..... | 99 | 16 | Mar. 1 | Nov. 19 |
| *Athens | 46.0 | 48.2 | 51.2 | 61.2 | 67.8 | 77.4 | 78.4 | 77.8 | 71.2 | 58.3 | 55.2 | 38.1 | 60.9 | 96 | 11 | Mar. 16 | Oct. 25 |
| *Atlanta | 46.1 | 49.2 | 52.2 | 61.4 | 67.2 | 76.7 | 77.2 | 77.8 | 71.7 | 61.3 | 58.2 | 38.2 | 61.4 | 95 | 8 | Mar. 16 | Oct. 25 |
| *Augusta | 50.2 | 53.0 | 55.8 | 64.6 | 70.6 | 79.4 | 79.5 | 79.8 | 74.2 | 61.8 | 58.6 | 43.0 | 64.2 | 96 | 13 | Mar. 16 | Nov. 19 |
| *Bainbridge | 56.6 | 55.6 | 61.6 | 67.9 | 74.2 | 82.4 | 82.3 | 84.1 | 79.3 | 68.1 | 62.2 | 48.2 | 68.5 | 104 | 18 | Feb. 12 | Nov. 19 |
| Barnesville | ..... | ..... | ..... | a62.2 | 68.4 | 78.0 | e75.6 | 79.1 | a74.4 | 64.4 | 59.8 | 41.8 | ..... | 98 | ..... | ..... | Nov. 19 |
| Blakely | 55.4 | b53.0 | 61.0 | 66.5 | 73.2 | c82.3 | 83.0 | 84.2 | 78.7 | 67.8 | 61.8 | 45.8 | 67.6 | 104 | 11 | Feb. 26 | Nov. 19 |
| Brunswick | 60.0 | ..... | m65.0 | 68.4 | ..... | 80.8 | 82.4 | a84.6 | 80.1 | ..... | ..... | ..... | ..... | 103 | ..... | ..... | ..... |
| *Tamak | 49.3 | 51.4 | 53.4 | 62.6 | 68.8 | 77.4 | 77.2 | 78.2 | 72.7 | 62.6 | a60.3 | 42.6 | 63.0 | 98 | 10 | Mar. 16 | Oct. 25 |
| Carrollton | 47.6 | d48.6 | 53.2 | 60.9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Apr. 10 | ..... |
| Clayton | 45.8 | 47.0 | 48.4 | 58.1 | 63.6 | 73.0 | 73.4 | 73.0 | 67.0 | 55.2 | 53.4 | 37.4 | 57.9 | 92 | 6 | Apr. 11 | Oct. 13 |
| *Columbus | a52.8 | 51.6 | 58.6 | 66.1 | d71.4 | e80.6 | e78.4 | e83.4 | a78.1 | 66.0 | b62.0 | ..... | ..... | 102 | 7 | Feb. 18 | Oct. 25 |
| Cuthbert | b52.6 | a51.6 | e59.0 | 65.8 | d72.8 | a80.3 | a79.8 | a81.6 | 75.6 | c67.2 | a60.4 | a46.8 | 66.1 | 98 | 10 | Feb. 26 | Nov. 18 |
| *Dahlonega | 45.0 | 45.7 | 49.6 | 60.0 | 64.7 | 74.8 | 76.7 | 75.2 | 69.0 | 57.2 | 55.8 | 37.2 | 59.2 | 97 | 5 | Apr. 10 | Oct. 13 |
| Diamond | 45.5 | 44.7 | 49.2 | a57.8 | 62.0 | 71.2 | 71.8 | 73.0 | 67.6 | 55.5 | a54.2 | a35.2 | 57.3 | 89 | 5 | Apr. 10 | Oct. 13 |
| Douglas | 57.4 | 56.1 | 62.0 | 68.3 | 75.1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Feb. 26 | ..... |
| Dudley | 53.3 | 54.0 | 58.4 | 65.6 | 71.4 | 80.2 | 80.6 | 81.0 | 75.4 | 64.3 | 60.6 | 45.2 | 65.8 | 98 | 12 | Feb. 26 | Oct. 25 |
| *Eastman | a54.2 | 53.7 | 59.2 | 66.9 | 74.0 | 82.3 | 81.8 | 82.6 | 76.6 | 67.4 | 63.7 | a45.8 | 67.4 | 101 | 13 | Feb. 26 | Nov. 19 |
| Eatonton | a48.9 | a51.0 | b54.6 | b62.6 | 68.8 | d77.2 | a77.9 | b77.6 | a73.2 | 61.3 | 58.6 | a40.6 | 62.7 | 97 | 9 | Apr. 10 | Oct. 25 |
| Elberton | 49.2 | 50.8 | 54.2 | 64.9 | 69.8 | 78.2 | 76.0 | 79.4 | 73.4 | 61.8 | 58.4 | 41.1 | 63.1 | 101 | 9 | Mar. 26 | Oct. 25 |
| Experiment | 49.4 | 50.3 | 54.6 | 62.8 | 67.6 | 76.2 | 77.2 | 77.5 | 72.0 | 61.7 | 58.4 | 40.5 | 62.4 | 94 | 7 | Apr. 10 | Oct. 25 |
| Fitzgerald | 55.8 | 55.0 | 61.2 | 65.9 | 72.6 | 80.1 | 80.8 | a81.6 | 77.4 | 67.1 | ..... | ..... | ..... | ..... | ..... | Feb. 26 | Oct. 25 |
| Forsyth | 50.4 | 51.6 | 55.8 | 63.9 | a69.0 | 78.2 | a79.6 | 81.0 | c74.3 | 63.5 | a60.7 | 43.8 | 64.3 | 100 | 11 | Mar. 16 | Oct. 25 |
| *Fort Gaines | 51.8 | 50.2 | 58.3 | 64.5 | 71.0 | 79.1 | 79.6 | 80.3 | 75.8 | 64.4 | 59.3 | 44.9 | 64.9 | 95 | 14 | Feb. 27 | Nov. 19 |
| *Gainesville | 44.0 | 45.5 | 49.4 | 60.0 | 66.4 | 76.2 | 76.3 | 76.1 | 69.1 | 56.6 | 53.7 | 35.0 | 59.0 | 94 | 9 | Mar. 26 | Oct. 13 |
| Gillsville | a49.5 | 48.9 | 52.1 | a62.4 | 68.2 | 77.4 | 78.0 | 77.6 | 71.5 | 59.3 | 56.4 | 38.9 | 61.7 | 98 | 10 | Mar. 26 | Oct. 25 |
| Glennville | 54.0 | 55.0 | 59.7 | 66.4 | 73.0 | 81.4 | 81.2 | 81.1 | 74.5 | c64.2 | 60.0 | 45.8 | 66.4 | 99 | 15 | Feb. 26 | Nov. 19 |
| Gore | 47.1 | 47.6 | 52.2 | 60.5 | 66.2 | 75.9 | 76.8 | 78.6 | 72.0 | 59.0 | 56.2 | 37.6 | 60.8 | 100 | 8 | Apr. 10 | Oct. 13 |
| *Greensboro | 48.4 | 51.0 | 54.6 | 64.2 | 70.0 | 79.3 | 79.2 | 80.8 | 74.0 | 59.9 | 56.8 | 41.3 | 63.3 | 101 | 9 | Mar. 16 | Oct. 25 |
| *Griffin | 48.2 | 49.6 | 53.8 | 62.0 | 67.4 | 76.8 | 77.9 | 78.8 | 73.4 | 61.9 | 58.3 | 39.4 | 62.3 | 99 | 8 | Apr. 10 | Oct. 25 |
| Harrison | 51.0 | 52.4 | 56.4 | 64.4 | 69.6 | 78.2 | 78.7 | 78.6 | 73.3 | 61.6 | 58.1 | 43.0 | 63.8 | 96 | 11 | Apr. 10 | Oct. 25 |
| Hartwell | 48.6 | 50.2 | 52.6 | 63.2 | 68.1 | 78.0 | 77.8 | 79.2 | a73.4 | 60.5 | 57.8 | 39.4 | 62.4 | 100 | 10 | Mar. 16 | Oct. 25 |
| *Hawkinsville | 51.4 | 51.6 | a57.4 | 64.4 | 71.4 | 79.9 | e80.9 | 81.2 | c77.2 | a63.7 | 59.4 | c44.4 | 65.2 | 98 | 13 | Feb. 26 | Oct. 25 |
| Helena | 55.0 | 54.8 | 59.8 | 67.1 | 73.6 | 80.9 | 81.4 | 81.5 | 76.2 | 66.0 | 61.6 | 47.0 | 67.1 | 99 | 13 | Mar. 16 | Nov. 19 |
| La Fayette | ..... | ..... | ..... | d61.0 | 65.7 | 75.8 | 76.2 | 76.6 | 70.0 | 56.4 | 53.6 | 35.4 | ..... | 96 | ..... | Apr. 10 | Oct. 13 |
| Lisbon | 49.0 | 50.8 | 53.8 | 63.8 | 68.9 | 79.0 | 79.1 | 80.0 | 73.5 | 59.2 | 57.0 | 41.8 | 63.0 | 102 | 10 | Apr. 10 | Oct. 25 |
| Lost Mountain | 46.9 | 49.2 | 51.8 | 60.4 | 65.9 | 76.0 | 78.2 | 79.0 | 71.6 | 60.4 | 56.8 | 36.8 | 61.1 | 99 | 7 | Apr. 11 | Oct. 13 |
| Louisville | 51.2 | 54.2 | 58.0 | 65.6 | 69.4 | 77.8 | 78.0 | 80.5 | 76.8 | 63.8 | 59.0 | 44.2 | 64.9 | 102 | 13 | Mar. 16 | Oct. 25 |
| Lumpkin | 52.3 | 51.2 | 55.2 | 61.6 | 67.4 | 78.0 | 81.2 | 83.0 | 78.1 | 68.1 | 63.9 | 46.6 | 65.6 | 101 | 10 | Mar. 16 | Nov. 19 |
| *Macon | 50.1 | 52.6 | 56.4 | 63.8 | 69.8 | 79.5 | 79.8 | 80.0 | 74.3 | 62.2 | 59.0 | 42.1 | 64.3 | 97 | 14 | Mar. 16 | Nov. 19 |
| Marshallville | a52.6 | a52.5 | a58.1 | a64.6 | 71.2 | a80.1 | a81.0 | a81.2 | a75.8 | b64.8 | b60.8 | a43.2 | 65.5 | 101 | 9 | Apr. 10 | Oct. 25 |
| Manzy | 57.8 | 55.8 | 62.0 | 67.8 | 74.1 | 81.4 | e81.2 | 82.5 | 77.8 | 68.4 | 63.9 | 49.7 | 68.5 | 100 | 16 | Feb. 26 | Oct. 25 |
| *Milledgeville | 49.4 | a51.1 | a55.3 | 64.2 | a70.0 | a80.0 | a80.6 | a80.1 | a75.2 | a61.0 | a57.3 | a42.0 | 63.0 | 98 | 14 | Mar. 18 | Oct. 25 |
| *Millen | 50.4 | 51.6 | 55.6 | 65.3 | 72.0 | 80.2 | 80.5 | 80.7 | 74.4 | 64.0 | 58.3 | 44.8 | 64.8 | 101 | 12 | Mar. 26 | Nov. 19 |
| *Monticello | 49.8 | 50.4 | 54.8 | 63.4 | 69.1 | 78.6 | 80.3 | 80.9 | 74.2 | 62.4 | 59.4 | 41.6 | 63.6 | 100 | 11 | Mar. 16 | Oct. 25 |
| Morgan | 53.6 | 53.0 | 60.8 | 66.0 | 71.3 | 79.8 | 79.3 | 81.0 | 76.3 | 65.0 | 60.3 | 45.1 | 66.0 | 96 | 8 | Feb. 25 | Nov. 18 |
| *Newnan | 48.6 | 48.8 | 53.3 | 60.6 | 67.0 | 77.8 | a77.8 | 78.2 | 72.6 | 62.2 | 60.4 | 40.2 | 62.3 | 97 | 8 | Mar. 26 | Oct. 25 |
| Point Peter | b46.6 | 48.6 | 52.0 | a62.8 | 67.8 | b75.6 | a77.4 | 78.5 | 71.6 | 59.6 | a56.0 | 40.5 | 61.4 | 98 | 9 | Apr. 10 | Oct. 25 |
| Poulan | 55.2 | 54.0 | 59.7 | 65.0 | 71.9 | 80.0 | 79.8 | 81.1 | 76.8 | j64.7 | 61.1 | 47.2 | 66.4 | 98 | 13 | Feb. 26 | Nov. 19 |
| Putnam | a54.6 | 52.2 | a57.8 | a63.8 | ..... | ..... | 79.0 | e81.4 | a75.8 | a64.7 | b61.2 | a44.4 | ..... | 101 | 10 | Feb. 26 | Oct. 25 |
| *Quitman | 59.2 | 55.4 | 62.8 | 67.8 | 74.4 | 80.9 | 80.2 | 81.4 | 77.4 | 69.0 | 65.4 | 49.4 | 68.6 | 99 | 17 | Feb. 26 | Oct. 25 |
| Ramsey | 49.4 | 49.7 | 52.8 | 62.3 | 67.5 | a74.2 | 75.4 | 75.9 | 70.8 | a59.4 | 58.7 | 39.2 | 61.3 | 97 | 9 | May 2 | Oct. 13 |
| *Rome | 45.8 | 45.9 | 51.6 | 60.7 | 67.1 | 77.0 | 77.4 | 78.4 | 71.8 | 59.9 | 55.2 | 36.4 | 60.6 | 99 | 9 | Apr. 10 | Oct. 25 |
| St. George | b58.8 | 57.1 | 61.6 | 70.0 | 72.4 | ..... | ..... | ..... | 75.4 | 66.6 | ..... | ..... | ..... | ..... | ..... | Feb. 4 | ..... |
| St. Marys | 57.6 | 56.4 | 62.4 | 68.5 | 73.3 | 80.2 | 81.6 | 81.6 | a76.2 | 68.2 | 63.2 | 51.0 | 68.4 | 100 | 16 | Feb. 11 | Dec. 10 |
| *Savannah | 55.0 | 56.0 | 59.7 | 66.2 | 71.8 | 80.2 | 80.2 | 80.4 | 74.4 | 66.3 | 62.6 | 47.6 | 66.7 | 96 | 17 | Feb. 1 | Dec. 10 |
| Statesboro | 53.6 | 54.2 | 58.6 | 66.0 | 73.0 | 81.2 | 81.0 | 81.7 | 75.1 | 65.2 | 60.4 | 46.4 | 66.4 | 101 | 14 | Feb. 26 | Nov. 19 |
| Talbotton | 51.2 | m54.1 | b57.3 | d62.8 | ..... | ..... | ..... | ..... | ..... | ..... | 62.0 | b42.8 | ..... | ..... | 10 | Mar. 16 | Nov. 19 |
| *Tallapoosa | d48.2 | a46.4 | 51.8 | 60.2 | 67.1 | 76.8 | 77.8 | 78.8 | 72.6 | 61.2 | 58.4 | 38.4 | 61.5 | 100 | 8 | Apr. 10 | Oct. 25 |
| *Thomasville | 57.0 | 55.3 | 61.4 | 66.8 | 73.0 | 80.6 | 80.4 | 81.6 | 76.8 | 66.9 | 62.5 | 47.5 | 67.5 | 99 | 17 | Feb. 26 | Nov. 19 |
| *Toccoa | 45.0 | 46.3 | 50.2 | 59.4 | 64.0 | 73.9 | 73.6 | 74.0 | 67.6 | a56.6 | 55.8 | 36.4 | 58.6 | 94 | 5 | Apr. 10 | Oct. 25 |
| *Valdosta | 58.3 | 55.2 | 61.8 | 68.8 | 73.6 | 81.6 | 82.2 | 83.1 | 78.2 | 67.9 | 63.2 | 43.2 | 68.5 | 103 | 16 | Feb. 26 | Nov. 19 |
| Valona | ..... | 54.2 | 58.4 | 65.7 | 72.1 | 79.2 | 80.6 | 80.1 | a75.0 | 66.3 | 62.4 | 47.0 | ..... | 98 | 15 | Feb. 26 | Nov. 25 |
| *Washington | 47.6 | 49.8 | 54.2 | 63.4 | 69.4 | 78.6 | 78.1 | 79.2 | 73.8 | 61.4 | 57.6 | 40.4 | 62.8 | 101 | 10 | Mar. 16 | Oct. 25 |
| *Waycross | 57.4 | 54.5 | 60.0 | 67.6 | 73.9 | 80.6 | 82.0 | 82.6 | 77.8 | 67.6 | 62.6 | 47.5 | 67.8 | 99 | 16 | Mar. 4 | Nov. 19 |
| *Waynesboro | 51.8 | 53.6 | 57.2 | 65.9 | 70.5 | 78.4 | 77.7 | 78.3 | 72.6 | 62.4 | 58.2 | 40.1 | 64.4 | 95 | 13 | Feb. 26 | Nov. 19 |
| *West Point | 49.9 | 49.0 | 56.2 | 63.4 | 69.6 | 79.0 | 80.4 | 79.9 | 75.4 | 61.8 | 57.2 | 40.2 | 63.5 | 100 | 10 | Mar. 26 | Oct. 25 |
| *Woodbury | b48.0 | ..... | ..... | ..... | ..... | ..... | a75.7 | 76.6 | 72.4 | ..... | a56.2 | 40.8 | ..... | 95 | ..... | Apr. 10 | Oct. 25 |
| *Idaho.* | | | | | | | | | | | | | | | | | |
| Albion | 32.8 | 31.4 | 36.4 | 41.3 | 48.8 | 61.4 | 66.5 | 67.8 | 56.4 | 48.7 | 39.6 | 20.7 | 46.0 | 99 | −13 | June 11 | Sept. 18 |
| American Falls | 31.0 | 31.4 | 38.2 | ..... | ..... | ..... | ..... | ..... | 59.5 | 48.8 | 38.8 | ..... | ..... | ..... | ..... | ..... | Sept. 21 |
| Big Creek | 24.0 | 24.4 | 29.6 | 33.5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Blackfoot | 28.2 | 28.2 | 36.9 | 40.8 | 49.3 | 61.4 | 66.6 | 68.6 | 58.1 | 47.0 | 36.8 | 15.0 | 44.7 | 98 | −12 | May 23 | Sept. 18 |
| Blackfoot Dam | ..... | ..... | ..... | ..... | ..... | ..... | 59.3 | 62.3 | 51.6 | 41.8 | 30.2 | 9.5 | ..... | 91 | ..... | ..... | Aug. 24 |
| Blanche | ..... | 32.4 | 42.6 | 46.4 | 54.2 | 67.0 | 71.8 | 74.2 | 61.7 | 53.0 | 43.6 | ..... | ..... | 103 | ..... | May 16 | Sept. 17 |
| *Boise | 36.4 | 39.6 | 43.8 | 46.2 | 53.6 | 66.4 | 71.5 | 72.8 | 63.1 | 53.2 | 44.0 | 27.4 | 51.5 | 101 | 10 | May 12 | Oct. 8 |
| *Bonners Ferry | 18.4 | 31.5 | 37.8 | 42.2 | 51.0 | 59.4 | 64.2 | 63.0 | 59.8 | 45.3 | 35.7 | 22.9 | 44.3 | 97 | −25 | May 2 | Sept. 23 |
| Buhl | 34.8 | 35.5 | 42.1 | 45.8 | 54.5 | 68.2 | 74.2 | 73.5 | 62.5 | ..... | 42.3 | 23.2 | ..... | 104 | 3 | May 12 | Oct. 8 |
| Burke | 19.0 | 28.5 | 32.8 | 36.4 | 43.0 | 53.2 | 57.4 | 57.0 | 52.2 | 42.0 | 32.3 | 20.0 | 39.5 | 91 | −20 | May 11 | Aug. 27 |
| Caldwell | 34.8 | 39.4 | 44.4 | 46.8 | 54.2 | 65.3 | 70.4 | 70.2 | 62.2 | 50.3 | 42.4 | 26.1 | 50.5 | 102 | 4 | May 17 | Oct. 8 |
| Camas | 24.6 | 23.8 | 33.6 | 37.3 | 49.3 | 61.4 | 66.4 | 68.5 | 56.0 | 42.5 | 31.4 | 8.0 | 41.9 | 100 | −28 | June 9 | Sept. 17 |
| Cambridge | 28.0 | 32.8 | 42.3 | 46.2 | 52.6 | 66.0 | 71.4 | 71.2 | 61.0 | 49.6 | 39.3 | 19.0 | 48.3 | 104 | −11 | May 12 | Sept. 18 |
| Chesterfield | 24.4 | 23.6 | 27.1 | 39.0 | ..... | 58.4 | 63.7 | 65.2 | 55.5 | ..... | ..... | ..... | ..... | 95 | ..... | June 11 | Aug. 24 |
| Coeur d'Alene | 23.6 | 36.0 | 42.3 | 44.8 | 54.2 | 63.1 | 66.1 | 66.5 | 60.1 | ..... | ..... | ..... | ..... | 96 | −14 | May 11 | ..... |
| Crawford | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 39.2 | 18.1 | ..... | ..... | ..... | ..... | ..... |
| Culdesac | 24.0 | 39.0 | 43.9 | 46.2 | 54.2 | 64.4 | 68.6 | 67.7 | 63.6 | 51.5 | 40.8 | 30.6 | 49.5 | 103 | −17 | May 8 | Oct. 22 |
| Dent | 24.7 | 36.7 | 42.9 | 46.1 | 52.4 | 63.8 | 68.6 | 67.1 | 62.6 | 51.2 | 38.0 | 27.6 | 48.5 | 105 | −14 | May 5 | Oct. 17 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Idaho*—Continued. | | | | | | | | | | | | | | | | | |
| Driggs | 23.2 | 21.5 | 26.4 | 31.5 | 43.8 | 55.4 | 60.4 | 62.2 | 51.0 | 41.4 | 29.8 | 8.0 | 37.9 | 90 | −30 | June 9 | Sept. 18 |
| Edie | ..... | ..... | ..... | ..... | ..... | 55.6 | 60.2 | 61.6 | 51.8 | 42.2 | 29.4 | 11.0 | ..... | 88 | ..... | ..... | Sept. 22 |
| Edwardsburg | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 14.6 | ..... | ..... | ..... | ..... | ..... |
| Elerslie | 33.2 | 34.5 | 42.6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Emmett | 36.2 | 40.3 | 45.8 | 47.3 | 56.0 | 68.6 | 73.2 | 73.5 | 65.0 | 53.2 | 42.6 | 24.8 | 52.2 | 106 | 8 | May 12 | Oct. 8 |
| Forney | 23.6 | 25.4 | 31.1 | 37.0 | 45.7 | 56.2 | 60.6 | 60.8 | 52.6 | 42.2 | 32.9 | 16.2 | 40.4 | 96 | −22 | June 25 | Aug. 28 |
| Garnet | 39.4 | 40.8 | 46.4 | 50.4 | 57.8 | 71.6 | ..... | ..... | 65.7 | 54.6 | 44.4 | 30.0 | ..... | ..... | 6 | May 12 | Nov. 12 |
| Gilbert | ..... | ..... | ..... | 51.6 | 61.6 | 64.8 | 63.6 | 57.8 | 47.8 | 39.4 | ..... | ..... | ..... | 97 | ..... | May 2 | Sept. 22 |
| Glenns Ferry | ..... | 39.6 | 45.0 | 48.2 | 57.2 | ..... | 76.2 | 75.4 | 64.2 | 52.6 | 42.9 | 27.2 | ..... | 110 | ..... | May 19 | Oct. 8 |
| Gooding | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 60.8 | 50.4 | 41.2 | 21.8 | ..... | ..... | ..... | ..... | Sept. 12 |
| Grace | 28.2 | 27.0 | 32.8 | 40.4 | 48.6 | 61.8 | 67.6 | 69.4 | 57.5 | 48.0 | 36.0 | 15.9 | 44.4 | 99 | −12 | May 18 | Sept. 22 |
| Grand Forks | ..... | ..... | ..... | ..... | ..... | 55.4 | 60.0 | 57.1 | 52.9 | 43.6 | 34.3 | 22.0 | ..... | 97 | ..... | June 25 | Aug. 5 |
| Grand View | ..... | ..... | ..... | ..... | ..... | ..... | 73.9 | 75.8 | ..... | 48.6 | 44.8 | 28.1 | ..... | 104 | ..... | ..... | Oct. 8 |
| Guffey | 37.8 | 41.4 | 47.0 | 50.2 | 56.2 | 70.6 | 76.4 | 77.0 | 67.2 | 56.2 | 46.0 | 28.4 | 54.5 | 107 | 1 | May 13 | Oct. 8 |
| Hailey | 25.8 | 24.0 | 31.4 | 38.6 | 48.9 | 60.6 | 60.0 | 68.6 | 54.8 | 46.0 | 33.8 | 14.2 | 42.7 | 97 | − 7 | May 22 | ..... |
| Hotspring | 37.6 | 40.7 | 46.3 | 49.0 | 55.5 | 68.6 | 73.8 | 73.6 | 63.8 | 54.9 | 46.0 | 28.3 | 53.2 | 102 | 4 | May 12 | Oct. 8 |
| Idaho Falls | 27.6 | 28.7 | 36.0 | 40.8 | 48.9 | 60.7 | 65.8 | 67.4 | 56.5 | 46.2 | 35.9 | 16.0 | 44.2 | 97 | −11 | May 25 | Sept. 13 |
| Irwin | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 54.4 | 43.8 | 35.2 | 10.2 | ..... | ..... | ..... | ..... | Sept. 18 |
| Kellogg | 23.1 | 33.4 | 38.8 | 41.2 | 49.6 | 58.8 | 61.8 | 61.0 | 57.4 | 46.6 | 38.0 | 25.3 | 44.6 | 98 | −17 | May 19 | Aug. 28 |
| Kooskia | 24.0 | 37.5 | 43.8 | 47.6 | 54.6 | 64.2 | 68.6 | 68.4 | 63.6 | 49.1 | 39.2 | 28.4 | 49.1 | 108 | −19 | May 11 | Oct. 12 |
| Lake | 22.4 | 22.4 | 27.5 | 27.4 | 40.6 | 56.6 | 59.0 | 62.4 | 51.8 | ..... | 30.7 | 11.8 | ..... | 85 | −18 | May 22 | Sept. 16 |
| Lakeview | 24.6 | 33.4 | 39.4 | 41.0 | 49.2 | 60.0 | 64.6 | 61.3 | 58.2 | 46.9 | 37.6 | 25.2 | 45.1 | 90 | −10 | May 9 | Oct. 8 |
| Landore | 24.4 | 26.7 | 31.8 | 34.4 | 42.4 | 53.7 | 59.2 | 60.4 | 52.5 | 43.4 | 32.4 | 18.5 | 40.0 | 89 | − 6 | June 12 | Sept. 18 |
| Lardo | 23.5 | 26.0 | 29.2 | 32.8 | 43.5 | 54.4 | 58.6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | June 10 | ..... |
| *Lewiston | 26.6 | 41.4 | 46.8 | 50.1 | 57.8 | 66.8 | 71.6 | 71.8 | 65.5 | 52.8 | 44.2 | 32.4 | 52.3 | 105 | −10 | Apr. 18 | Oct. 27 |
| Loon Creek | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 59.8 | 50.4 | 40.6 | 31.8 | 15.4 | ..... | ..... | ..... | ..... | Aug. 28 |
| Lost River | 20.6 | 18.6 | 29.8 | 37.7 | 47.5 | 58.4 | 62.8 | ..... | 52.0 | 43.8 | ..... | ..... | ..... | 95 | ..... | June 9 | Sept. 18 |
| Lowry | ..... | 31.5 | 37.8 | 36.8 | 45.5 | 59.4 | 63.6 | 67.5 | 59.2 | ..... | 42.3 | 22.9 | ..... | 100 | ..... | June 9 | Aug. 28 |
| McCall | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 59.4 | 49.0 | 36.2 | 29.5 | 15.9 | ..... | ..... | ..... | ..... | Aug. 28 |
| Mackay | 18.8 | 18.0 | 29.1 | 36.1 | 46.8 | 55.1 | ..... | 66.8 | 54.4 | 44.0 | 31.6 | 13.0 | ..... | 96 | −14 | May 19 | Sept. 18 |
| Meadows | 25.0 | 31.0 | 35.8 | 40.4 | 47.9 | 59.0 | 63.0 | 63.9 | 55.8 | 45.4 | 35.6 | 18.3 | 43.4 | 98 | −15 | June 10 | Sept. 18 |
| Milner | 32.6 | 35.2 | 38.8 | 43.3 | ..... | ..... | 70.0 | 72.6 | 59.2 | 49.6 | 39.0 | 19.5 | ..... | 100 | 0 | May 12 | Sept. 22 |
| Moscow | ..... | ..... | ..... | 42.9 | 52.0 | 60.5 | 63.6 | 66.1 | 60.2 | 49.7 | 41.6 | 26.6 | ..... | 98 | −13 | Apr. 30 | Oct. 8 |
| Mountainhome | 33.5 | 35.8 | 41.7 | 44.0 | 52.2 | 65.6 | 70.0 | 71.2 | 61.4 | 49.8 | 41.2 | 23.6 | 49.2 | 105 | 3 | May 20 | Sept. 18 |
| Murray | 19.8 | 31.6 | 36.2 | 39.2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | −24 | ..... | ..... |
| Murtaugh | 32.8 | 32.9 | 38.4 | 41.6 | 50.8 | 62.6 | 68.2 | 69.4 | 58.4 | 48.2 | 38.6 | 21.6 | 47.0 | 96 | − 2 | May 12 | Sept. 23 |
| Nez Perce | ..... | ..... | ..... | ..... | ..... | ..... | 61.3 | 59.6 | 55.8 | 46.6 | 37.6 | 25.2 | ..... | 92 | ..... | ..... | Sept. 22 |
| Oakley | 34.0 | 34.6 | 42.2 | 44.2 | 50.2 | 65.4 | 70.8 | 72.4 | 60.3 | 51.3 | 40.2 | 23.2 | 49.1 | 100 | 2 | May 27 | Sept. 22 |
| Orofino | 23.0 | 37.4 | 44.8 | 46.4 | 55.8 | 64.2 | 68.4 | 66.1 | 62.2 | 50.8 | 40.6 | 29.2 | 49.1 | 108 | −14 | May 11 | Oct. 8 |
| Paris | 22.0 | 19.8 | 26.8 | 36.6 | 48.2 | 57.8 | 64.0 | 63.9 | 53.8 | 46.4 | 35.4 | 13.2 | 40.7 | 94 | −19 | June 8 | Sept. 19 |
| Payette | 33.9 | 39.0 | 44.4 | 47.0 | 54.6 | 66.6 | 71.2 | 72.0 | 62.3 | 50.7 | 42.2 | 23.4 | 50.6 | 104 | − 2 | May 17 | Sept. 18 |
| Pebble | ..... | ..... | ..... | ..... | 46.4 | 58.4 | 62.4 | 62.2 | 53.6 | 46.5 | 33.8 | 13.4 | ..... | 95 | ..... | May 20 | Aug. 28 |
| Pleasant Valley | 34.0 | 37.0 | 42.2 | 44.0 | 51.8 | 64.5 | 70.0 | 70.6 | 62.4 | 51.1 | 42.0 | 25.2 | 49.6 | 106 | 1 | May 17 | Sept. 18 |
| *Pocatello | 33.2 | 32.2 | 37.8 | 42.7 | 50.4 | 64.4 | 69.8 | 71.8 | 59.4 | 49.8 | 39.4 | 19.3 | 47.5 | 98 | − 4 | May 13 | Oct. 8 |
| Pocatello Nursery | ..... | ..... | ..... | ..... | 46.9 | 57.4 | 63.4 | 66.0 | 55.0 | 45.8 | 33.3 | ..... | ..... | 94 | ..... | June 10 | Sept. 13 |
| Poplar | ..... | ..... | 33.0 | 38.2 | 47.3 | 59.9 | 64.6 | 66.8 | 55.6 | 45.2 | 34.3 | 15.4 | ..... | 96 | ..... | May 30 | Sept. 18 |
| Porthill | 18.4 | 31.0 | 37.0 | 42.7 | 52.0 | 59.6 | 63.4 | 62.0 | 56.2 | 43.0 | 33.8 | 22.4 | 43.5 | 90 | −22 | May 14 | Oct. 8 |
| Rupert | 32.6 | 32.2 | 39.4 | 43.8 | 52.3 | 64.6 | 70.5 | 71.4 | 60.3 | 49.6 | 39.1 | 20.2 | 48.0 | 99 | − 3 | May 17 | Sept. 18 |
| St. Maries | 23.0 | 35.1 | 40.6 | 42.0 | 51.0 | 59.6 | 62.3 | 61.8 | 59.1 | 47.5 | ..... | ..... | ..... | 98 | −16 | May 14 | Sept. 18 |
| Salmon | 27.9 | 31.4 | 37.7 | 41.5 | 50.3 | 61.8 | 67.0 | 66.4 | 57.0 | 43.6 | 36.2 | 13.4 | 44.5 | 100 | −19 | May 30 | Sept. 18 |
| Salmon River Dam | 33.6 | 32.2 | 37.4 | 42.4 | 49.4 | 63.8 | 70.2 | 72.8 | 59.8 | 50.8 | 39.9 | 23.2 | 48.0 | 98 | 4 | May 13 | Oct. 8 |
| Shoshone | 30.0 | 29.6 | 38.8 | 43.2 | 51.5 | 63.4 | 68.9 | 70.3 | 59.5 | 48.6 | 38.7 | 19.6 | 46.8 | 93 | 0 | May 17 | Sept. 22 |
| Soldier | ..... | ..... | 28.8 | 37.2 | 46.8 | 62.0 | 68.5 | 65.4 | 55.8 | ..... | 31.5 | 12.2 | ..... | 96 | ..... | May 23 | Sept. 16 |
| Spirit Lake | 19.4 | 29.6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | −28 | ..... | ..... |
| Stone | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 68.2 | ..... | 45.4 | 36.2 | ..... | ..... | ..... | ..... | ..... | Sept. 13 |
| Sugar | 24.8 | 23.6 | 33.7 | 38.4 | 46.8 | 59.3 | 63.5 | 64.4 | 54.4 | 44.0 | 33.6 | 12.2 | 41.6 | 94 | −20 | May 14 | Sept. 18 |
| Sunnyside | ..... | ..... | ..... | ..... | ..... | 65.8 | 71.6 | 72.4 | 62.4 | 51.5 | 40.4 | 23.0 | ..... | 104 | ..... | ..... | Oct. 8 |
| Tilden | ..... | ..... | ..... | 40.8 | 49.5 | 61.2 | 67.5 | 68.8 | 57.2 | 46.3 | 36.7 | 13.5 | ..... | 100 | ..... | May 19 | Sept. 18 |
| Twin Falls | 33.1 | 34.0 | 40.0 | 43.0 | 51.2 | 63.2 | 68.0 | 68.6 | 59.4 | 50.9 | 40.8 | 22.1 | 47.9 | 97 | − 4 | May 17 | Oct. 8 |
| Van Wyck | 23.2 | 27.8 | 29.0 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Vernon | 24.0 | 23.6 | 31.4 | 37.3 | 46.5 | 59.2 | 64.3 | 66.6 | 54.7 | 44.0 | 33.9 | 12.3 | 41.5 | 94 | −19 | May 14 | Sept. 18 |
| *Wallace | 21.2 | §2.2 | 36.4 | 39.6 | 46.9 | 57.0 | 61.2 | 61.2 | 57.2 | 45.2 | 37.1 | 24.4 | 43.3 | 95 | −10 | June 5 | Sept. 23 |
| Warfield | ..... | ..... | ..... | ..... | 43.8 | 53.4 | 58.2 | 60.2 | ..... | ..... | ..... | ..... | ..... | 89 | ..... | June 11 | Sept 12 |
| Wendell | 33.7 | 34.0 | 41.6 | 44.5 | 53.2 | 66.2 | 72.1 | 73.6 | 62.6 | 51.9 | 42.0 | 22.7 | 49.8 | 105 | 0 | May 14 | Sept. 22 |
| Weston | 29.2 | 27.9 | 36.4 | 41.7 | 50.0 | 63.0 | 67.6 | 70.7 | 58.5 | 49.2 | 37.2 | 14.5 | 45.5 | 99 | −18 | May 14 | Sept. 18 |
| *Illinois.* | | | | | | | | | | | | | | | | | |
| Albion | 34.8 | 38.9 | 43.2 | 54.6 | 63.2 | 75.6 | 76.6 | 79.2 | 66.6 | 53.9 | 53.6 | 26.2 | 55.5 | 101 | − 7 | Apr. 14 | Oct. 12 |
| Aledo | 24.8 | 31.1 | 36.2 | 47.8 | 58.6 | 69.8 | 71.8 | 75.8 | 62.9 | 49.4 | 47.6 | 18.4 | 49.5 | 94 | −14 | May 3 | Oct. 12 |
| Alexander | 29.5 | 34.7 | 40.5 | 52.4 | 60.6 | 72.8 | 73.2 | 78.0 | 65.4 | 52.2 | 51.2 | 21.5 | 52.7 | 97 | −14 | Apr. 13 | Oct. 12 |
| Antioch | 25.1 | 29.3 | 33.4 | 42.3 | 56.0 | 66.2 | 70.5 | 72.5 | 60.9 | 47.1 | 44.4 | 18.8 | 47.2 | 99 | −16 | May 11 | Oct. 12 |
| Ashton | 25.4 | 29.6 | ‡33.7 | ‡45.0 | 57.8 | 68.4 | 71.4 | 75.0 | 61.2 | 46.6 | ..... | ..... | ..... | 97 | −16 | May 4 | Oct. 12 |
| Astoria | 26.8 | 32.6 | 38.0 | 49.6 | 59.0 | 70.1 | 70.6 | 74.8 | 62.4 | 49.6 | 49.1 | 20.3 | 50.2 | 94 | −12 | May 1 | Oct. 12 |
| Aurora | 26.4 | 30.1 | 34.6 | 45.2 | 57.0 | 67.0 | 70.4 | 73.2 | 61.0 | 46.9 | 46.6 | 17.6 | 48.0 | 95 | −16 | May 11 | Oct. 12 |
| Bement | 31.0 | 37.9 | 41.7 | 52.2 | 60.9 | ‡72.8 | 73.2 | 77.8 | 65.4 | 50.6 | *51.8 | 21.2 | 53.0 | 98 | −11 | May 2 | Oct. 12 |
| Benton | 37.9 | 42.5 | ‖46.2 | 57.0 | 64.4 | 76.6 | 78.0 | 80.9 | 71.3 | ..... | ..... | ‖28.8 | ..... | 102 | − 4 | Apr. 11 | ..... |
| Bloomington | 28.2 | 33.4 | 38.2 | 50.6 | 59.8 | 72.4 | 73.2 | 77.4 | 65.0 | 49.4 | 49.6 | 20.5 | 51.5 | 98 | −12 | May 2 | Oct. 13 |
| Bushnell | *27.0 | 33.2 | 38.8 | 50.4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *Cairo | 37.4 | 43.8 | 47.6 | 57.6 | 65.4 | 76.8 | 79.0 | 81.0 | 69.6 | 59.5 | 57.3 | 31.0 | 58.8 | 99 | 4 | Apr. 9 | Oct. 13 |
| Cambridge | ..... | ..... | ..... | 44.6 | 57.0 | 71.0 | 73.2 | 77.4 | ..... | ..... | ..... | ..... | ..... | 99 | ..... | May 10 | ..... |
| Carlinville | 30.4 | 36.4 | 42.6 | 54.2 | 62.0 | 73.4 | 74.8 | 78.9 | 66.3 | 53.7 | 53.1 | 23.0 | 54.1 | 99 | −11 | Apr. 10 | Oct. 12 |
| Charleston | 32.1 | 36.2 | 41.2 | 52.5 | 60.7 | 73.2 | 73.1 | 76.6 | 64.8 | 51.4 | 52.2 | 24.1 | 53.2 | 96 | − 6 | May 10 | Oct. 12 |
| *Chester | 36.4 | 43.1 | 46.4 | 58.2 | 65.6 | 76.4 | 78.6 | 82.8 | ..... | 58.6 | 57.3 | ..... | ..... | 103 | ..... | Apr. 10 | Oct. 13 |
| *Chicago | 28.8 | 32.4 | 36.0 | 45.1 | 55.9 | 66.6 | 72.3 | 74.8 | 64.0 | 50.6 | 48.5 | 21.7 | 49.7 | 93 | −10 | May 2 | Oct. 14 |
| Coatsburg | 28.5 | *32.6 | 39.6 | 52.0 | *61.0 | 72.8 | 73.9 | 78.0 | 64.8 | 51.5 | 50.0 | 20.8 | 52.1 | 96 | − 9 | May 1 | Oct. 12 |
| Cobden | 35.8 | 43.4 | 47.6 | 58.2 | 65.3 | 77.2 | 78.9 | 80.8 | 70.2 | 59.0 | 57.6 | 30.1 | 58.7 | 102 | − 5 | Apr. 10 | Oct. 12 |
| Colchester | 28.0 | 33.0 | 38.6 | 51.4 | 60.6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | May 1 | ..... |
| Dakota | 22.9 | 26.6 | 32.8 | ‡43.6 | 56.0 | 66.6 | 70.6 | 72.6 | 60.8 | 46.6 | 43.9 | 15.2 | 46.5 | 95 | −19 | May 10 | Oct. 13 |
| *Decatur | 27.6 | 33.9 | 40.2 | 50.2 | 60.8 | 72.9 | 72.8 | 77.7 | 65.1 | 50.7 | 50.8 | 21.2 | 52.0 | 98 | −10 | May 2 | Oct. 12 |
| *Dixon | *24.2 | 28.8 | ‖34.5 | 45.8 | 58.1 | 68.8 | 71.6 | *75.9 | 63.2 | 47.6 | 45.2 | ..... | ..... | 99 | ..... | May 3 | Oct. 13 |
| Duquoin | 35.8 | 41.2 | 46.0 | 56.3 | 64.5 | 77.2 | 78.5 | 81.2 | 70.6 | 57.6 | 57.1 | 27.2 | 57.8 | 103 | − 5 | Apr. 11 | Oct. 12 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | | | | | | | | | | | | | | | | |
| Dwight | 27.9 | 32.7 | 36.8 | 48.4 | 58.4 | 69.7 | 71.8 | 75.8 | 63.4 | 49.1 | 48.2 | 19.4 | 50.1 | 97 | −15 | May 3 | Oct. 12 |
| Equality | 36.9 | 42.4 | 47.2 | 57.6 | 65.5 | 76.8 | 77.9 | 82.0 | 70.7 | 58.8 | 58.0 | 30.2 | 58.7 | 105 | − 3 | Apr. 14 | Oct. 12 |
| Fairfield | 34.8 | 41.0 | 44.5 | 55.2 | 61.3 | 73.4 | a75.1 | 79.2 | 68.4 | 54.8 | 54.8 | 27.0 | 55.8 | 102 | − 6 | Apr. 14 | Oct. 12 |
| Flora | 33.6 | 39.4 | 43.1 | 54.6 | 62.4 | 74.8 | 75.5 | 79.1 | 67.6 | 54.2 | 54.0 | 25.2 | 55.3 | 102 | − 8 | Apr. 14 | Oct. 13 |
| *Galva | 24.2 | 29.6 | 35.2 | 46.2 | 58.3 | 70.6 | 71.9 | 76.8 | 63.4 | 48.6 | 46.4 | 16.9 | 49.0 | 100 | −14 | May 3 | Oct. 12 |
| Golconda | 35.8 | 41.1 | 45.2 | 56.4 | 63.8 | 76.6 | 78.8 | 81.3 | 70.8 | 56.4 | 56.0 | 29.6 | 57.6 | 104 | − 5 | May 2 | Oct. 12 |
| Greenville | 30.4 | 37.2 | 42.0 | 54.3 | 62.4 | 73.7 | 75.2 | 79.7 | 67.2 | 53.7 | 53.0 | 24.2 | 54.4 | 97 | − 6 | Apr. 10 | Oct. 12 |
| Griggsville | 29.7 | 35.6 | 40.9 | 53.0 | 61.4 | 73.4 | 74.6 | c78.6 | 66.4 | 52.6 | b50 9 | 22.2 | 53.3 | 97 | −10 | May 1 | Oct. 12 |
| Halfway | 35.7 | 42.0 | 45.2 | 55.9 | 63.8 | 76.4 | 77.0 | c80.4 | 69.8 | 58.8 | a56.6 | 28.8 | 57.5 | 103 | − 5 | Apr. 10 | Oct. 12 |
| Havana | 28.8 | 34.0 | 40.0 | 52.2 | 61.9 | 74.2 | a74.9 | 80.2 | 66.4 | a52.2 | 51.2 | 22.4 | 53.2 | 102 | − 7 | May 3 | Oct. 12 |
| Henry | 27.6 | 32.7 | 37.8 | 49.4 | 59.1 | 70.8 | 72.2 | 76.0 | 63.2 | a50.0 | 48.4 | 19.2 | 50.5 | 96 | −12 | May 3 | Oct. 13 |
| *Hillsboro | 32.2 | 37.6 | 42.8 | 51.9 | 61.4 | 74.3 | 74.4 | 79.0 | 66.1 | 54.2 | b55.0 | 23.5 | 54.4 | 98 | − 8 | May 2 | Oct. 12 |
| Hoopeston | 29.8 | 33.5 | 38.4 | 50.0 | 59.3 | 71.0 | 71.0 | 73.8 | 63.2 | 48.6 | 50.1 | 21.1 | 50.8 | 93 | −13 | May 11 | Oct. 12 |
| Joliet | 27.0 | 31.2 | 35.7 | 46.6 | 57.6 | 67.4 | 70.9 | 73.7 | 61.8 | 48.7 | 46.8 | 18.6 | 48.8 | 92 | −12 | May 3 | Oct. 12 |
| Kishwaukee | a24.4 | 28.2 | 34.1 | 44.0 | 56.5 | 67.8 | 70.9 | 73.8 | 62.4 | 47.5 | 45.4 | 16.1 | 47.6 | 97 | −17 | May 4 | Oct. 12 |
| Knoxville | 25.6 | 31.1 | 36.8 | 47.8 | 57.6 | 70.0 | 71.0 | 75.4 | 62.4 | 48.9 | 48.2 | 18.4 | 49.4 | 98 | −14 | May 11 | Oct. 12 |
| La Grange | 27.4 | 31.0 | 34.9 | 45.2 | a55.0 | 66.9 | 71.8 | 75.4 | 62.1 | 47.0 | 46.4 | 18.6 | 48.5 | 96 | −14 | May 3 | Oct. 12 |
| La Harpe | 27.3 | 31.4 | 38.7 | 49.6 | 60.2 | 71.2 | 72.8 | 77.0 | 64.0 | 49.4 | 50.0 | 20.3 | 51.0 | 97 | −14 | May 3 | Oct. 12 |
| Lanark | 22.2 | 27.0 | 33.0 | 43.0 | 56.0 | 66.5 | 69.6 | 74.0 | 61.3 | 46.6 | 44.2 | 14.8 | 46.5 | 98 | −21 | May 4 | Oct. 12 |
| *La Salle | 26.7 | 31.8 | 36.2 | 47.3 | 58.6 | 69.6 | 71.8 | 75.6 | 63.5 | 49.4 | 47.2 | 19.0 | 49.7 | 95 | −11 | May 3 | Oct. 13 |
| Lincoln | a28.0 | 33.0 | a38.5 | 50.2 | ..... | ..... | ..... | ..... | ..... | 50.1 | 49.8 | 21.5 | ..... | ..... | − 9 | ..... | Oct. 12 |
| *McLeansboro | 34.5 | 40.0 | 44.2 | 53.6 | 62.2 | 74.4 | 75.3 | 79.2 | 67.4 | 55.2 | 55.2 | 27.3 | 55.7 | 99 | − 5 | Apr. 11 | Oct. 13 |
| *Martinsville | d31.4 | b37.2 | 41.4 | b52.6 | 61.6 | e74.6 | a74.2 | f78.4 | b66.5 | 52.5 | 52.4 | 22.7 | 53.8 | 102 | −10 | May 2 | Oct. 12 |
| Martinton | 27.1 | 31.6 | 37.4 | 47.2 | 58.2 | 70.7 | 71.8 | 75.4 | 61.7 | 49.4 | 48.4 | 18.8 | 49.8 | 96 | −15 | May 3 | Oct. 12 |
| Mascoutah | 33.7 | 39.4 | 45.5 | 56.1 | 64.0 | 76.0 | 77.7 | 81.4 | 71.0 | 55.7 | 55.8 | 26.9 | 56.9 | 105 | − 7 | May 2 | Oct. 13 |
| Minonk | 27.6 | 33.0 | 38.0 | 49.5 | 59.0 | 71.2 | 72.2 | 77.0 | 64.8 | 50.0 | 48.6 | 19.6 | 50.9 | 100 | −15 | May 3 | Oct. 12 |
| Monmouth | 25.5 | 31.8 | 37.4 | 49.2 | 60.6 | 72.8 | 73.7 | 79.6 | 65.1 | 50.8 | 48.7 | 19.0 | 51.2 | 105 | −13 | May 2 | Oct. 12 |
| Morrison | 24.6 | 29.6 | 35.7 | 45.8 | 57.6 | 68.0 | 70.6 | 73.5 | 61.6 | 48.8 | 47.0 | 17.0 | 48.3 | 93 | −15 | May 3 | Oct. 12 |
| Morrisonville | 29.9 | 35.4 | 41.0 | 52.0 | 60.4 | 72.0 | 72.6 | 76.6 | 64.8 | 51.8 | 51.6 | 22.0 | 52.5 | 96 | −14 | May 2 | Oct. 12 |
| *Mount Vernon | 33.0 | 36.4 | 44.0 | 54.2 | 64.0 | 76.2 | 76.0 | 80.7 | 67.6 | 56.1 | 54.6 | 26.2 | 55.8 | 104 | − 3 | May 2 | Oct. 12 |
| *New Burnside | 33.4 | 38.1 | 44.6 | b53.4 | b65.4 | 75.1 | 76.3 | 79.3 | 67.3 | 57.6 | 56.0 | 29.8 | 56.4 | 101 | − 5 | ..... | Oct. 13 |
| *Olney | 34.4 | 40.0 | 43.2 | 55.0 | 63.3 | 75.4 | 75.7 | 79.6 | 68.2 | 54.7 | 54.9 | 26.3 | 55.9 | 101 | − 6 | Apr. 10 | Oct. 12 |
| Oregon | ..... | ..... | ..... | ..... | ..... | ..... | 71.3 | 74.2 | 62.6 | 48.3 | 46.3 | 15.8 | ..... | 98 | ..... | ..... | Oct. 12 |
| Ottawa | 27.2 | 32.2 | 37.1 | 48.5 | 59.8 | 70.0 | 72.4 | 76.0 | 63.0 | 49.7 | 47.8 | 19.1 | 50.2 | 97 | −11 | May 3 | Oct. 12 |
| Palestine | ..... | ..... | 43.6 | a54.8 | 62.2 | 74.6 | 74.2 | e79 0 | 67.6 | 54.3 | 53.2 | 27.0 | ..... | 100 | ..... | Apr. 14 | Oct. 13 |
| Pana | 31.6 | 35.9 | 41.2 | 52.8 | 61.4 | 72.2 | 72.4 | d76.9 | 64.5 | 52.4 | 51.2 | 22.1 | 52.9 | 96 | −11 | May 2 | Oct. 12 |
| *Paris | 29.4 | 34.4 | 40.5 | 50.4 | 60.6 | 72.8 | 73.0 | 76.0 | 64.2 | 50.0 | 50.8 | 22.0 | 52.0 | 95 | − 9 | May 2 | Oct. 12 |
| *Peoria | 26.3 | 31.8 | 36.8 | 48.4 | 59.2 | 71.2 | 71.4 | 77.0 | 64.0 | 49.8 | 48.0 | 19.2 | 50 3 | 97 | −12 | Apr. 23 | Oct. 12 |
| Philo | 28.9 | 32.6 | 39.0 | 50.6 | 59.3 | 71.4 | 71.4 | 75.2 | 63.4 | 49.2 | 49.6 | 20.3 | 50.9 | 96 | −14 | Apr. 23 | Oct. 12 |
| Pontiac | 28.3 | 33.6 | 38.2 | 50.5 | 60.0 | 71.8 | 73.2 | 77.6 | 65.2 | 50.8 | 49.8 | 20.0 | 51.6 | 96 | −13 | May 3 | Oct. 13 |
| *Rantoul | 29.8 | 34.4 | 39.8 | 48.8 | 59.2 | 71.6 | 72.0 | 76.3 | 64.4 | 50.0 | 50.5 | 20.8 | 51.5 | 97 | −13 | May 2 | Oct. 12 |
| Riley | 24.6 | 28.1 | b33.0 | a42.5 | 56.0 | 66.6 | 70.5 | 73.3 | 61.4 | 47.1 | a44.8 | 16.6 | 47.0 | 98 | −15 | May 11 | Oct. 12 |
| Robinson | 35.4 | 39.8 | 43.2 | 54.8 | 62.4 | 75.1 | 74.4 | 78.6 | 68.8 | 54.2 | 55.3 | 26.4 | 55.7 | 100 | − 6 | Apr. 14 | Oct. 12 |
| *Rockford | b25.8 | b30.1 | 34.4 | b43.9 | 57.6 | 67.8 | 72.0 | 73.6 | 60.7 | 46.7 | 43.6 | 16.9 | 47.8 | 97 | −11 | May 4 | Oct. 12 |
| Rushville | 28.6 | 33.8 | 39.7 | 51.8 | 60.9 | 72.0 | 72.8 | 78.0 | 64.8 | 51.8 | 50.0 | 21.0 | 52.1 | 96 | −10 | May 1 | Oct. 12 |
| St. Charles | 26.4 | 30.2 | 34.8 | 45.0 | 57.2 | 67.6 | 70.6 | 73.7 | 61.8 | 48.2 | 46.2 | 18.2 | 48.3 | 98 | −12 | May 11 | Oct. 12 |
| *Springfield | 29.1 | 34.7 | 40.2 | 51.6 | 61.6 | 73.0 | 73.6 | 78.4 | 65.2 | 51.9 | 50.4 | 22.0 | 52.6 | 96 | − 7 | Apr. 10 | Oct. 12 |
| Staunton | 31.2 | 37.7 | 42.8 | 54.0 | 63.1 | 74.8 | b75.5 | 80.0 | 68.4 | 55.8 | a55.7 | ..... | ..... | 100 | ..... | Apr. 11 | Oct. 12 |
| *Streator | d27.2 | 31.6 | 37.1 | 47.5 | 59.7 | 70.6 | 72.6 | 76.6 | 64.6 | 49.8 | 47.2 | 18.8 | 50.3 | 97 | −15 | May 3 | Oct. 12 |
| Sullivan | 30.4 | 35.0 | 40.6 | 52.0 | 60.6 | 73.1 | 73.2 | 78.0 | 65 6 | 51.8 | 51.8 | 22.0 | 52.8 | 98 | −12 | Apr. 10 | Oct. 12 |
| Sumner | 34.0 | 38.9 | 43.4 | 54.9 | 62.6 | 74.0 | 74.2 | 76.8 | 67.3 | 53.8 | 53.0 | 26.5 | 55.0 | 98 | − 5 | Apr. 24 | Oct. 13 |
| *Sycamore | 24.7 | 29.4 | 33.8 | 43.7 | 57.4 | 67.8 | 71.2 | 74.4 | 61.6 | 46.6 | 45.0 | 16.8 | 47.7 | 101 | −14 | May 3 | Oct. 12 |
| Tilden | 34.2 | 40.0 | 45.6 | 53.2 | 63.4 | 75.4 | 77.6 | 80.2 | 69.0 | 56.8 | 56.4 | 26.5 | 56.5 | 102 | − 9 | May 2 | Oct. 12 |
| Tiskilwa | 26.3 | 30.8 | 35.8 | 48.0 | 58.5 | 69.4 | 70.6 | 74.0 | 62.2 | 49.4 | 47.6 | 17.0 | 49.1 | 92 | −16 | May 3 | Oct. 12 |
| *Tuscola | 28.6 | 33.6 | 39.8 | 49.7 | 60.0 | 72.6 | 72.8 | 77.2 | b64.1 | 50.6 | 50.7 | 22.0 | 51.8 | 99 | −13 | May 11 | Oct. 13 |
| Urbana | 28.4 | 32.9 | 38.1 | 49.2 | 58.8 | 70.2 | 71.0 | 75.4 | 63.4 | 49.0 | 49.8 | 20.0 | 50.5 | 94 | −13 | May 11 | Oct. 12 |
| Walnut | 26.6 | a31.6 | 36.4 | 48.7 | 60.4 | 71.5 | 75.2 | b77.2 | 64.0 | a50.2 | 47.2 | 18.6 | 50.6 | 98 | −13 | May 10 | Oct. 12 |
| White Hall | 30.4 | 35.5 | 42.0 | 52.4 | 61.1 | 72.4 | 73.4 | 77.6 | 66.0 | 51.8 | 51.5 | 22.9 | 53.0 | 97 | −12 | Apr. 13 | Oct. 12 |
| Windsor | 31.0 | c34.7 | 40.6 | 52.8 | 60.7 | 72.5 | 73.4 | 77.3 | 65.4 | a51.5 | 52.0 | 22.4 | 52.8 | 99 | −13 | May 11 | Oct. 12 |
| Winnebago | 23.6 | 28.0 | 33.2 | 43.8 | 56.6 | 67.9 | 70.7 | 74.1 | 61.6 | 47.3 | 44.8 | 15.6 | 47.3 | 97 | −17 | May 4 | Oct. 12 |
| Yorkville | 26.3 | 30.4 | 34.7 | 45.6 | 57.6 | 68.4 | 71.6 | 74.8 | 62.0 | 46.9 | 45.9 | 16.8 | 48.4 | 99 | −17 | May 11 | Oct. 12 |
| Zion | 21.9 | 27.1 | 32.6 | 44.0 | 56.8 | 67.6 | 70.2 | 73.3 | 61.6 | a48.6 | 45.5 | ..... | ..... | 95 | ..... | May 4 | Oct. 12 |
| *Indiana.* | | | | | | | | | | | | | | | | | |
| Anderson | 31.8 | 36.3 | 39.2 | 50.5 | 59.4 | 71.9 | 72.0 | 74.0 | 63.6 | 49.9 | 50.9 | 23.1 | 51.9 | 93 | −11 | Apr. 28 | Sept. 28 |
| *Auburn | 27.2 | c27.8 | b34.0 | 44.2 | 55.9 | 67.4 | b69.7 | 71.1 | a59.0 | 45.0 | 45.2 | b19.0 | 47.2 | 94 | − 9 | May 11 | Sept. 28 |
| *Bloomington | 32.0 | 35.8 | 39.5 | 51.4 | 60.0 | 73.2 | 73.0 | 75.7 | 64.3 | 50.6 | 52.2 | 23.6 | 52.6 | 95 | −11 | May 11 | Oct. 12 |
| Bluffton | a29.0 | 33.6 | c36.6 | 48.2 | 57.2 | a70.6 | a71.3 | b75.0 | a61.0 | ..... | ..... | b21.6 | ..... | 95 | −13 | May 2 | Sept. 23 |
| Butlerville | 34.4 | 38.6 | 41.8 | 53.0 | 61.4 | 73.8 | 73.0 | 76.3 | 67.2 | 52.9 | 54.2 | 26.8 | 54.4 | 96 | − 9 | May 2 | Sept. 28 |
| *Cambridge City | 30.1 | 34.7 | 38.0 | 49.0 | 58.0 | 71.7 | 71.0 | 72.2 | 62.0 | 47.6 | 48.6 | 22.8 | 50.5 | 93 | −14 | May 11 | Sept. 28 |
| Collegeville | 28.3 | 32.6 | 37.2 | 49.8 | 59.4 | 69.5 | 71.5 | 74.6 | 62.0 | 49.3 | 49.4 | 20.4 | 50.3 | 94 | −10 | May 11 | Sept. 26 |
| *Columbus | 32.6 | 38.3 | 41.3 | a52.0 | 60.4 | 73.4 | 72.6 | 75.8 | 65.4 | 50.5 | 51.2 | 25.0 | 53.2 | 99 | −11 | May 11 | Oct. 12 |
| Connersville | 32.2 | 37.2 | 40.0 | 50.5 | 59.8 | 72.9 | 72.4 | 74.2 | 63.4 | 49.2 | 52.5 | 24.9 | 52.4 | 95 | −11 | May 12 | Sept. 24 |
| *Delphi | 27.4 | 31.4 | 36.5 | 47.2 | 58.8 | 70.6 | 71.1 | 73.6 | 62.0 | 47.2 | 48.6 | 19.8 | 49.5 | 95 | −17 | May 11 | Sept. 27 |
| Elkhart | 30.4 | 31.2 | 35.4 | 46.2 | 58.9 | a70.8 | 73.0 | a75.0 | b62.8 | ..... | a49.2 | 23.0 | ..... | 96 | − 6 | May 2 | ..... |
| Eminence | 31.9 | 37.6 | 40.4 | 52.0 | 59.4 | 71.6 | 71.5 | 74.2 | 63.4 | 49.8 | a47.2 | 23.2 | 51.8 | 94 | −10 | May 11 | Sept. 28 |
| *Evansville | 35.8 | 41.4 | 45.0 | 55.4 | 64.2 | 76.2 | 76.4 | 80.2 | 69.2 | 56.8 | 55.5 | 29.2 | 57.1 | 99 | 1 | Apr. 10 | Oct. 12 |
| Farmersburg | 33.5 | 38.6 | i41.0 | b57.0 | a60.1 | 73.0 | 73.4 | 76.8 | 65.7 | x51.3 | 53.3 | b25.4 | 54.1 | 95 | −12 | Apr. 11 | Oct. 12 |
| *Farmland | 32.1 | 35.8 | 39.0 | 49.0 | 58.8 | 71 2 | 70.4 | 73.6 | 62.3 | 49.0 | 50.6 | 24.4 | 51.4 | 89 | − 8 | Apr. 28 | Oct. 12 |
| *Fort Wayne | b30.8 | 32.9 | 37.3 | 48.0 | 58.6 | 70.2 | 71.6 | 74.0 | 62.5 | 48.0 | 48.6 | 22.4 | 50.4 | 95 | − 9 | May 11 | Oct. 2 |
| Greenfield | 31.7 | 37.8 | 40.2 | 51.6 | 59.9 | 72.2 | 71.8 | 74.2 | 64.4 | 50.9 | 52.2 | 23.9 | 52.6 | 91 | −10 | Apr. 28 | Oct. 12 |
| Greensburg | ..... | 39.6 | 41.0 | 52.3 | 60.6 | 73.6 | 72.7 | 76.0 | 65.6 | 51.8 | 51.6 | 25.4 | ..... | 96 | ..... | Apr. 14 | Oct. 12 |
| Hammond | 26.0 | 32.4 | 34.5 | 48.0 | 56.6 | 68.4 | 71.3 | 75.0 | 64.4 | 49.0 | 48.8 | 21.6 | 49.7 | 95 | −10 | May 10 | Oct. 12 |
| Heltonville | ..... | ..... | ..... | a54.4 | 61.8 | e75.5 | ..... | e76.2 | ..... | b51.2 | a51.4 | ..... | ..... | ..... | ..... | May 12 | ..... |
| Huntingburg | 36.4 | 41.1 | 45.0 | 56.2 | 63.0 | 75.4 | 76.9 | b77.0 | 67.5 | 53.9 | 53.2 | 29.8 | 56.2 | 100 | − 2 | Apr. 24 | Oct. 13 |
| Huntington | 30.2 | 33.6 | 37.4 | 48.2 | 58.4 | 70.7 | 71.8 | 73.9 | 62.4 | 48.4 | 48.8 | 22.2 | 50.5 | 94 | −10 | May 11 | Oct. 12 |
| *Indianapolis | 31.3 | 35.5 | 39.0 | 50.7 | 59.8 | 72.1 | 72.2 | 74.9 | 64.3 | 50.6 | 51.0 | 23.4 | 52.1 | 93 | − 8 | Apr. 11 | Oct. 12 |
| Jeffersonville | 37.4 | 42.5 | 45.4 | 55.6 | 64.0 | 75.8 | 75.2 | 77.8 | 66.2 | 54.8 | 54.0 | 29.5 | 56.5 | 99 | 1 | Apr. 24 | Oct. 12 |
| Judyville | a29.2 | b33.6 | 38.6 | 49.6 | 59.2 | a70.3 | a70.4 | 74.0 | a62.5 | a45.7 | a49.6 | a19.7 | 50.2 | 95 | −22 | May 11 | Sept. 27 |
| Knox | 28.9 | 31.8 | 36.6 | 47.9 | 58.3 | 69.0 | 70.6 | 72.4 | 61.4 | 47.7 | 48.0 | 20.4 | 49.4 | 92 | −12 | May 11 | Oct. 1 |
| Kokomo | ..... | ..... | ..... | ..... | f60.3 | 71.0 | 70.8 | 72.2 | 61.7 | 47.4 | 48.4 | 22.3 | ..... | 91 | ..... | May 11 | Sept. 26 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *Indiana*—Continued. | | | | | | | | | | | | | | | | | |
| *Lafayette | 28.4 | 32.3 | 37.2 | 47.8 | 59.0 | 71.1 | 71.4 | 75.0 | 62.9 | 48.6 | 50.5 | 21.0 | 50.4 | 94 | −17 | May 11 | Oct. 12 |
| Laporte | a27.0 | 29.9 | 34.4 | d46.6 | f53.7 | 68.7 | 72.5 | 75.4 | 62.2 | 47.4 | e46.6 | f22.7 | 48.9 | 99 | −12 | May 3 | Oct. 12 |
| Lima | 27.4 | 27.7 | 33.1 | 44.4 | 55.9 | 68.4 | 71.7 | 73.0 | 60.9 | 45.6 | 44.8 | 21.3 | 47.8 | 96 | − 6 | May 11 | Oct. 12 |
| *Logansport | 29.8 | 33.2 | 37.6 | 47.4 | 59.8 | 72.2 | 72.6 | 75.4 | 63.4 | 48.7 | 49.9 | 22.3 | 51.0 | 97 | −13 | May 11 | Oct. 12 |
| *Madison | 37.4 | 41.5 | 44.2 | 55.2 | 63.2 | 75.8 | 75.5 | 77.6 | 66.6 | 53.3 | 54.2 | 28.8 | 56.1 | 98 | − 6 | Apr. 11 | Oct. 12 |
| Marengo | 36.2 | 39.6 | 44.6 | 54.2 | 62.0 | 74.2 | 73.5 | 75.0 | ..... | 52.0 | 51.8 | 27.0 | ..... | 95 | −10 | Apr. 11 | Oct. 1 |
| *Marion | 30.7 | 34.4 | 38.0 | 48.8 | 59.2 | 71.9 | 71.6 | 73.4 | 63.1 | 48.8 | 49.6 | 21.8 | 50.9 | 93 | −13 | May 11 | Sept. 28 |
| Markle | 30.2 | 32.8 | 36.2 | 47.6 | 57.0 | 69.9 | 73.0 | c71.8 | 61.7 | 46.6 | 48.4 | 21.3 | 49.7 | 94 | −14 | May 11 | Sept. 28 |
| Manzy | 31.4 | 36.3 | b38.7 | 50.0 | 58.9 | 71.8 | 71.0 | 73.4 | 63.6 | a 49.5 | b50.4 | 23.4 | 51.5 | 94 | −12 | May 11 | Sept. 29 |
| Moores Hill | 34.1 | 39.1 | 40.8 | 52.0 | 60.2 | 73.0 | 72.2 | 74.9 | 65.8 | 50.8 | 53.0 | 25.6 | 53.5 | 94 | −10 | Apr. 24 | Oct. 12 |
| *Mount Vernon | 32.9 | 39.6 | 43.7 | 54.4 | 63.6 | 75.6 | 75.9 | d79.6 | 67.4 | 56.2 | 55.8 | e23.0 | 55.6 | 103 | − 2 | Apr. 14 | Oct. 12 |
| Paoli | 35.8 | 40.8 | 43.0 | 54.6 | 62.2 | 74.0 | 73.2 | 75.8 | 65.7 | 51.8 | 53.4 | 27.8 | 54.8 | 97 | −14 | May 11 | Sept. 28 |
| Plymouth | 28.4 | 32.0 | 35.5 | 46.6 | 56.8 | 68.4 | 69.4 | 71.4 | 60.8 | 47.3 | 47.2 | 20.5 | 48.7 | 91 | −13 | May 11 | Oct. 12 |
| Princeton | 34.6 | 40.4 | 43.6 | 55.1 | 62.4 | 74.2 | 75.2 | 78.5 | 67.6 | 54.6 | 55.2 | 27.3 | 55.7 | 102 | − 4 | Apr. 24 | Oct. 12 |
| Richmond | 31.6 | 35.9 | 38.2 | 49.8 | 58.3 | 70.7 | 69.7 | 72.0 | 62.6 | 48.3 | 49.9 | 24.2 | 50.9 | 91 | −12 | May 11 | Sept. 28 |
| Rochester | 30.5 | 33.0 | 37.3 | 48.2 | 58.7 | 71.4 | 72.6 | 73.7 | 61.9 | 47.8 | 48.0 | 22.4 | 50.5 | 89 | −10 | May 11 | Sept. 27 |
| Rockville | 31.6 | 34.8 | 39.2 | 51.4 | 58.7 | 71.8 | 71.8 | 75.1 | 64.6 | 50.6 | 51.5 | 22.8 | 52.0 | 92 | −13 | Apr. 14 | Oct. 12 |
| Rome | 38.6 | 43.6 | 46.6 | 57.2 | 65.4 | 77.0 | 77.2 | 79.0 | 70.5 | 56.3 | 57.0 | 27.0 | 58.0 | 104 | − 4 | Apr. 14 | Oct. 13 |
| Salamonia | 30.6 | 34.7 | 37.8 | 49.1 | 57.8 | b69.9 | 70.0 | b72.0 | f61.4 | b 48.2 | b49.1 | 23.2 | 50.3 | 92 | −15 | May 2 | Sept. 28 |
| Salem | 34.8 | 40.0 | 42.7 | 53.6 | 61.6 | 73.8 | 73.0 | 75.4 | 66.0 | 51.2 | 52.8 | 27.0 | 54.3 | 98 | −12 | May 11 | Sept. 28 |
| Scottsburg | 36.4 | 41.2 | 43.8 | 55.0 | 63.8 | 76.5 | 75.8 | 77.7 | ..... | ..... | 53.6 | 29.0 | ..... | 96 | − 2 | Apr. 10 | ..... |
| Seymour | 34.8 | 40.8 | 43.4 | 53.4 | 61.7 | 74.8 | 74.6 | 77.0 | 66.2 | 52.1 | 53.7 | 26.6 | 54.9 | 98 | −10 | May 11 | Sept. 28 |
| Shelbyville | 32.0 | 37.1 | 40.0 | 51.2 | 59.6 | 72.4 | 72.0 | 74.3 | 64.5 | 50.6 | 51.1 | 25.8 | 53.1 | 97 | −16 | May 2 | Sept. 28 |
| *South Bend | 28.2 | 29.4 | 33.8 | 43.5 | 56.6 | 68.7 | 71.0 | 73.0 | 61.8 | 47.8 | 46.2 | 19.6 | 48.3 | 93 | −13 | May 11 | Sept. 27 |
| *Terre Haute | 33.8 | 38.6 | 42.7 | 54.0 | 61.8 | 74.0 | 75.1 | 78.4 | 67.1 | 52.7 | 53.4 | 25.2 | 54.7 | 95 | − 7 | Apr. 10 | Oct. 12 |
| Veedersburg | 31.5 | 36.2 | 40.1 | 52.2 | 60.9 | 71.9 | 71.7 | 75.0 | 65.9 | b51.0 | 51.8 | 22.6 | 52.6 | 96 | −13 | May 11 | Oct. 12 |
| Vevay | 37.2 | 41.2 | 44.0 | 54.0 | 62.8 | 75.2 | 74.8 | 77.2 | 67.4 | 52.7 | 54.2 | 29.2 | 55.8 | 96 | − 2 | Apr. 28 | Oct. 13 |
| *Vincennes | 33.0 | 37.6 | 42.2 | 53.6 | 62.8 | 75.2 | 75.8 | 74.6 | 67.6 | 53.0 | 52.2 | 25.8 | 54.4 | 104 | − 6 | Apr. 14 | Sept. 28 |
| *Washington | 33.4 | 37.5 | 42.2 | 53.3 | 61.3 | 73.8 | 74.4 | 77.6 | 67.2 | 52.8 | 54.4 | 26.9 | 54.6 | 96 | − 3 | Apr. 11 | Oct. 13 |
| Whitestown | 30.4 | 35.2 | 38.2 | 49.4 | 58.2 | 70.6 | 70.3 | 72.9 | 62.2 | 48.1 | 49.3 | 21.9 | 50.6 | 90 | −13 | May 11 | Sept. 28 |
| Winona Lake | 29.8 | 33.2 | 36.9 | 48.0 | 58.4 | 70.8 | 71.6 | 74.5 | 63.2 | 49.6 | 48.4 | 21.2 | 50.5 | 96 | −13 | May 11 | Oct. 12 |
| Worthington | 34.6 | 39.5 | 43.2 | 54.2 | 61.5 | 74.1 | 74.0 | 76.4 | 66.6 | 52.3 | 51.9 | 25.0 | 54.4 | 95 | − 9 | May 11 | Sept. 27 |
| *Iowa.* | | | | | | | | | | | | | | | | | |
| Afton | 24.1 | 29.1 | 35.0 | 46.4 | 60.0 | 71.0 | 75.2 | 77.4 | 63.8 | 50.9 | 45.0 | 16.6 | 49.5 | 99 | −14 | May 10 | Oct. 12 |
| *Albia | 22.9 | 28.2 | 34.0 | 45.0 | 57.6 | 68.8 | 71.5 | 76.4 | 62.7 | 49.8 | 44.6 | 16.4 | 48.2 | 97 | −14 | May 10 | Oct. 12 |
| Algona | 17.6 | 21.7 | 29.4 | 40.4 | 57.0 | 67.6 | 71.3 | 74.8 | 60.6 | 48.0 | 37.6 | 13.8 | 45.0 | 93 | −22 | May 10 | Oct. 11 |
| Allerton | 25.5 | 30.4 | 36.4 | 47.2 | 59.4 | 70.3 | 73.6 | 78.2 | 65.0 | c51.2 | 46.8 | 17.8 | 50.2 | 99 | −13 | May 10 | Oct. 12 |
| *Alta | 17.0 | 19.8 | 28.8 | 39.9 | 56.0 | 68.3 | 70.4 | 75.2 | 60.8 | 48.5 | 37.8 | 11.2 | 44.5 | 94 | −22 | May 10 | Oct. 12 |
| Alton | 17.6 | 21.0 | 30.8 | 41.8 | 57.6 | 68.6 | 71.5 | 76.6 | 61.0 | 49.6 | 37.6 | 12.2 | 45.5 | 98 | −20 | May 10 | Oct. 11 |
| Amana | 22.6 | 28.2 | 34.2 | 45.5 | 58.4 | 69.4 | 72.0 | 75.2 | 62.1 | 48.9 | 44.7 | 17.0 | 48.2 | 96 | −17 | May 3 | Oct. 12 |
| Ames | d23.6 | 27.2 | 31.8 | d47.7 | 59.4 | 70.3 | 72.3 | 76.2 | 61.8 | 49.1 | 42.8 | 15.0 | 48.1 | 97 | −15 | May 10 | Oct. 13 |
| Atlantic | 21.8 | 27.6 | 33.1 | 45.0 | 59.4 | 70.0 | 74.2 | 77.3 | 64.2 | 51.3 | 42.9 | 14.4 | 48.4 | 98 | −16 | May 10 | Oct. 11 |
| Audubon | 20.4 | 25.6 | 30.5 | 43.2 | 56.1 | 68.4 | 71.5 | 74.2 | 60.4 | 48.7 | 42.2 | 15.2 | 46.4 | 97 | −19 | May 10 | Sept. 27 |
| Baxter | 21.0 | 27.8 | 32.0 | 44.2 | 57.8 | 69.0 | 71.2 | 75.2 | a62.3 | 49.9 | 43.4 | b15.3 | 47.4 | 96 | −18 | May 4 | Oct. 12 |
| Bedford | 24.8 | 31.4 | 36.4 | 47.0 | 58.8 | 70.1 | 74.6 | 77.3 | 65.0 | 52.0 | 45.0 | 16.2 | 49.9 | 103 | −17 | May 10 | Oct. 11 |
| Belle Plaine | 20.5 | 27.6 | 33.2 | 44.4 | 58.2 | 68.8 | 70.2 | 74.6 | 62.4 | 49.0 | 43.4 | 15.9 | 47.3 | 97 | −19 | May 10 | Oct. 12 |
| Belmond | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 15.2 | ..... | ..... | ..... | ..... | ..... |
| Bloomfield | 25.5 | 31.3 | 37.6 | 48.4 | 59.8 | ..... | 75.5 | 80.4 | 66.7 | 53.5 | ..... | a15.8 | ..... | 103 | −13 | May 3 | Oct. 12 |
| Bonaparte | 25.7 | 31.1 | 36.8 | 48.4 | 59.3 | 70.2 | 72.5 | 78.4 | 64.4 | 51.0 | 48.0 | 17.7 | 50.3 | 98 | −15 | May 3 | Oct. 12 |
| *Boone | 20.0 | 24.7 | 30.8 | 42.2 | 57.2 | 69.4 | 71.9 | 76.2 | 61.8 | 49.6 | 41.4 | 14.1 | 46.6 | 96 | −18 | May 3 | Oct. 12 |
| Britt | 17.4 | 21.4 | 29.3 | 39.5 | 54.6 | 67.6 | 71.1 | 74.2 | 60.7 | 47.0 | 39.4 | ..... | ..... | 94 | −22 | May 10 | Oct. 11 |
| *Burlington | 26.1 | 30.5 | 37.4 | 48.4 | 60.4 | 72.5 | 73.0 | 79.1 | 64.4 | 51.0 | 47.5 | 18.6 | 50.7 | 100 | −13 | May 3 | Oct. 12 |
| *Carroll | 20.2 | 25.2 | 30.4 | 41.1 | 56.0 | 67.6 | 70.6 | 74.8 | 60.6 | 47.5 | 38.0 | 13.2 | 45.4 | 95 | −19 | May 10 | Oct. 11 |
| *Cedar Rapids | 21.4 | 26.5 | 32.8 | 44.4 | 58.2 | 69.8 | 72.4 | 76.6 | 62.6 | 48.6 | 44.1 | 16.5 | 47.8 | 98 | −18 | May 4 | Oct. 12 |
| Chariton | 24.8 | a29.3 | 35.2 | 47.0 | 58.4 | 69.1 | 71.9 | 76.6 | 63.6 | 51.2 | 46.0 | 16.4 | 49.1 | 97 | −15 | May 10 | Oct. 12 |
| *Charles City | ..... | 21.5 | 28.2 | 40.2 | 56.0 | 67.0 | 70.8 | 73.6 | 59.6 | 47.0 | 38.9 | 13.2 | ..... | 93 | ..... | May 3 | Oct. 12 |
| *Clarinda | 22.4 | 28.0 | 34.4 | 45.6 | 59.0 | 71.0 | 74.8 | 77.8 | 64.4 | 51.6 | 44.3 | 15.0 | 49.0 | 102 | −14 | May 10 | Oct. 12 |
| Clear Lake | 18.4 | 22.2 | 29.4 | 40.4 | 57.6 | 69.4 | 71.8 | 75.4 | 63.0 | 49.0 | 40.5 | 14.6 | 46.0 | 97 | −24 | May 3 | Oct. 11 |
| *Clinton | ..... | 28.2 | 34.4 | 46.8 | 58.6 | 69a5 | 71.8 | 74.4 | 62.0 | 48.4 | 45.2 | 17.4 | ..... | 95 | ..... | May 10 | Sept. 30 |
| Columbus Junction | 25.0 | 31.6 | 36.4 | 48.0 | 60.2 | 70.9 | 72.8 | 77.0 | 63.8 | 50.4 | 47.4 | 19.2 | 50.2 | 96 | −14 | May 3 | Oct. 13 |
| Corning | 23.5 | 28.5 | 32.8 | 45.8 | 58.6 | 69.8 | 74.0 | 75.9 | 63.4 | a50.1 | 44.1 | a14.8 | 48.4 | 97 | −17 | May 10 | Oct. 12 |
| Corydon | 25.4 | 30.8 | 37.2 | 47.6 | a39.3 | 70.3 | 73.6 | b78.6 | 65.2 | 52.9 | 47.9 | 17.4 | 50.5 | 98 | −14 | May 1 | Oct. 13 |
| *Creston | 21.4 | 27.7 | 33.3 | 43.6 | 57.7 | 69.2 | 72.3 | 77.0 | 63.2 | 51.6 | 43.2 | 16.4 | 48.0 | 100 | −16 | May 11 | Oct. 12 |
| *Davenport | 24.9 | 31.0 | 35.8 | 46.8 | 59.2 | 70.4 | 72.6 | 77.3 | 63.6 | 50.6 | 46.8 | 17.8 | 49.7 | 96 | −15 | May 3 | Oct. 13 |
| Decorah | 18.8 | c22.3 | 28.9 | 41.5 | 58.5 | ..... | 73.6 | 75.4 | 59.6 | 46.8 | 40.5 | 14.8 | ..... | 100 | −23 | May 10 | Sept. 27 |
| Delaware | b19.3 | 24.6 | 30.4 | 41.1 | 56.0 | 67.6 | 70.7 | 73.0 | 60.4 | 46.5 | 41.7 | 13.2 | 45.4 | 94 | −22 | May 10 | Oct. 12 |
| Denison | a20.8 | 26.0 | 31.7 | 43.2 | a58.4 | a68.0 | 71.4 | 75.8 | a62.4 | 50.6 | a40.1 | 14.4 | 46.9 | 94 | −18 | May 4 | Oct. 11 |
| *Des Moines | 22.8 | 29.6 | 33.6 | 45.1 | 59.2 | 70.0 | 72.9 | 78.1 | 63.8 | 51.4 | 44.8 | 16.9 | 49.0 | 96 | −15 | May 3 | Oct. 12 |
| De Soto | b23.4 | 28.8 | 33.9 | 45.6 | 58.8 | 69.2 | 73.0 | 77.2 | 64.8 | 52.1 | 44.8 | a16.0 | 49.0 | 97 | −16 | May 10 | Oct. 12 |
| Dows | 17.7 | a23.4 | ..... | 40.0 | 54.2 | 65.8 | 69.8 | 74.9 | 60.6 | 48.4 | 40.6 | 16.4 | ..... | 95 | −21 | May 11 | ..... |
| *Dubuque | 21.4 | 26.9 | 32.8 | 43.4 | 58.2 | 68.7 | 71.8 | 75.0 | 62.2 | 48.4 | 44.2 | 16.6 | 47.5 | 96 | −19 | May 3 | Oct. 12 |
| Earlham | 24.0 | 29.9 | 32.8 | 45.1 | 57.8 | 68.8 | 72.2 | 76.4 | 63.0 | b52.8 | 44.8 | 16.2 | 48.6 | 98 | −16 | May 10 | Sept. 27 |
| Elkader | 19.4 | 24.8 | 30.9 | 43.0 | 58.4 | 71.6 | 73.6 | 72.0 | 59.8 | 42.6 | 39.4 | 13.4 | 45.7 | 102 | −21 | May 11 | Sept. 26 |
| Elliott | 23.4 | 29.4 | 34.8 | 46.2 | 59.0 | 69.8 | 74.0 | 77.0 | 64.0 | 50.8 | 43.2 | 15.3 | 48.9 | 95 | −16 | May 10 | Oct. 11 |
| Elma | 17.6 | 20.7 | 28.4 | 40.0 | 55.2 | 67.8 | 69.8 | 73.0 | ..... | ..... | ..... | ..... | ..... | 93 | −24 | May 10 | ..... |
| *Estherville | 16.0 | 19.0 | 28.6 | 38.8 | 54.9 | 66.2 | 69.6 | 72.6 | 58.4 | 46.2 | 36.2 | 12.8 | 43.4 | 94 | −22 | May 10 | Oct. 12 |
| Fairfield | 25.0 | a31.1 | 35.8 | c47.0 | 59.3 | 71.0 | 73.3 | a79.6 | b64.4 | 50.8 | b48.0 | 17.8 | 50.3 | 96 | −13 | May 3 | Oct. 12 |
| Fayette | 18.4 | 23.3 | 30.0 | a40.8 | d54.1 | 67.2 | a70.6 | 73.8 | a59.4 | a46.7 | 41.1 | 13.7 | 44.9 | 97 | −22 | May 11 | Oct. 1 |
| *Forest City | 16.8 | 18.7 | 28.7 | 39.0 | 55.6 | 67.1 | 70.4 | 74.8 | 60.8 | 47.2 | 37.6 | 12.2 | 44.1 | 94 | −24 | May 10 | Oct. 12 |
| *Fort Dodge | 18.1 | 22.0 | 28.0 | a40.6 | a57.1 | 69.2 | 71.1 | 77.2 | 61.7 | 49.1 | 39.2 | 13.0 | 45.5 | 97 | −19 | May 10 | Oct. 12 |
| Grand Meadow | 18.6 | 23.2 | 29.3 | 40.2 | 55.6 | 66.4 | 69.6 | 72.2 | 59.2 | 46.6 | 41.2 | 13.4 | 44.6 | 91 | −25 | May 10 | Oct 12 |
| Greene | 19.7 | 23.2 | 30.1 | 41.8 | 57.6 | 69.0 | 72.7 | 75.8 | 61.4 | 47.9 | 40.6 | 14.6 | 46.2 | 98 | −20 | May 10 | Oct. 12 |
| Grinnell | 23.4 | 29.0 | 34.1 | 45.4 | 58.2 | 69.6 | 72.2 | 77.4 | 64.2 | 51.2 | 45.5 | 17.2 | 49.0 | 101 | −17 | May 4 | Oct. 12 |
| Grundy Center | 20.4 | 25.6 | 30.9 | 43.6 | 57.4 | 68.6 | 71.8 | 75.6 | 62.8 | 48.2 | 43.0 | 15.0 | 46.9 | 96 | −21 | May 10 | Sept. 30 |
| Guthrie Center | 22.0 | 27.7 | 32.2 | 44.9 | 59.0 | 69.8 | 72.9 | 76.4 | 63.0 | 49.9 | 43.5 | 15.4 | 48.1 | 95 | −17 | May 10 | Oct. 12 |
| Hampton | 18.8 | 23.6 | 30.0 | 41.4 | 57.4 | 68.4 | 72.2 | 76.6 | 62.6 | 49.2 | 40.1 | 13.7 | 46.2 | 95 | −22 | May 4 | Oct. 11 |
| Hancock | 22.2 | 28.8 | 33.0 | 45.0 | 59.7 | 70.6 | 74.8 | 78.2 | 64.4 | 51.0 | 43.0 | 14.0 | 48.7 | 98 | −17 | May 3 | Oct. 11 |
| Harlan | 20.8 | 26.6 | 32.2 | 44.0 | 57.6 | 68.4 | 72.3 | 75.8 | 62.2 | 50.0 | 41.4 | 13.5 | 47.1 | 97 | −18 | May 10 | Oct. 11 |
| Hopeville | 24.2 | 29.6 | 35.2 | 46.4 | 58.8 | 70.0 | 73.4 | 76.5 | 64.1 | 51.8 | 45.8 | 16.4 | 49.4 | 97 | −14 | May 2 | Oct. 11 |
| Humboldt | 20.2 | 24.8 | 30.6 | 42.4 | a56.0 | ..... | a72.2 | 75.4 | 61.5 | 49.8 | 40.4 | a14.5 | ..... | 98 | −20 | May 10 | Sept. 27 |
| Independence | 21.3 | 25.0 | 31.0 | 42.4 | 56.3 | 67.4 | 71.0 | 74.3 | 61.3 | 47.6 | 43.8 | 15.3 | 46.4 | 96 | −23 | May 10 | Oct. 13 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. |
| *Iowa*—Continued. | | | | | | | | | | | | | | *Max.* | *Min.* | | |
| Indianola | a24.0 | 29.3 | 34.4 | b46.3 | a59.0 | a69.6 | a72.7 | a78.0 | 64.2 | 52.3 | 46.0 | a16.6 | 49.4 | 96 | −15 | May 3 | Oct. 12 |
| Inwood | 16.8 | 20.8 | a30.2 | a40.4 | 56.2 | 67.4 | 71.6 | 75.2 | 61.7 | a49.0 | 35.6 | 10.6 | 44.6 | 97 | −26 | May 16 | Oct. 12 |
| *Iowa City | 21.6 | 27.8 | 34.2 | 45.2 | 59.2 | 70.8 | 72.6 | 77.5 | 62.2 | 48.0 | 43.4 | 15.7 | 48.2 | 100 | −19 | May 3 | Oct. 12 |
| *Iowa Falls | 18.9 | 22.0 | 29.0 | 40.8 | 55.6 | 67.5 | 70.4 | 73.7 | 59.8 | 46.5 | 39.6 | 12.6 | 44.7 | 93 | −21 | May 10 | Oct. 12 |
| Jefferson | | | c33.1 | 48.8 | | | 72.8 | f78.6 | c64.2 | 50.5 | 42.5 | 16.2 | | 96 | | | Oct. 11 |
| *Keokuk | 28.3 | 34.2 | 38.9 | 50.6 | 61.0 | 72.8 | 73.6 | 79.5 | 65.7 | 52.4 | 50.2 | 20.6 | 52.3 | 98 | −10 | May 2 | Oct. 19 |
| *Keosauqua | a24.8 | 29.9 | 36.2 | 47.6 | 59.4 | 72.8 | 73.0 | 77.8 | 63.4 | 49.3 | 46.6 | 18.6 | 50.0 | 98 | −14 | May 2 | Oct. 12 |
| Knoxville | 25.0 | 30.4 | 35.6 | | | 71.0 | 73.8 | 77.2 | 64.6 | 52.2 | 46.9 | 18.5 | | 96 | −14 | | Oct. 12 |
| Lamoni | 25.5 | a31.4 | 36.9 | 47.8 | 59.9 | 71.8 | 75.2 | 77.6 | 64.2 | 51.2 | 47.0 | 17.6 | 50.5 | 100 | −13 | May 10 | Oct. 12 |
| Larrabee | 17.8 | 21.2 | a29.7 | 39.8 | 56.6 | 68.0 | 71.3 | 74.9 | b60.1 | 48.2 | a37.0 | 12.6 | 44.8 | 97 | −22 | May 10 | Oct. 12 |
| Le Mars | 18.8 | 22.2 | 30.6 | 41.8 | 57.9 | 67.6 | 70.4 | 74.8 | 60.6 | 49.2 | 38.4 | 13.1 | 45.4 | 92 | −19 | May 10 | Oct. 11 |
| Lenox | 23.8 | 28.6 | 34.6 | 46.2 | 58.8 | 69.5 | 73.8 | 76.4 | 63.5 | 51.4 | 45.0 | 15.6 | 48.9 | 96 | −17 | May 10 | Oct. 12 |
| Leon | 24.6 | 29.0 | 36.2 | 47.0 | 59.4 | | 74.3 | 77.3 | 64.4 | 51.2 | 47.8 | 16.6 | | 98 | −14 | May 10 | Oct. 12 |
| Little Sioux | 21.4 | 27.8 | 33.4 | 45.2 | 59.4 | 69.9 | 73.9 | 78.0 | 65.0 | 52.4 | 41.4 | 13.4 | 48.4 | 99 | −22 | May 10 | Oct. 12 |
| Logan | 21.2 | 27.8 | 34.7 | 45.6 | 59.6 | 69.0 | 73.2 | 77.8 | 63.9 | 51.6 | 42.2 | 13.8 | 48.4 | 98 | −17 | May 10 | Oct. 11 |
| *Marshalltown | 19.8 | 24.4 | 30.6 | 42.0 | 56.1 | 68.4 | 70.6 | 75.6 | | 48.2 | 41.6 | 14.6 | | 98 | −21 | May 10 | Oct. 12 |
| Mason City | 17.4 | 20.9 | 28.3 | 39.4 | 55.3 | 66.2 | 69.9 | 72.8 | 59.0 | 46.5 | 38.0 | 13.8 | 44.0 | 93 | −22 | May 10 | Oct. 12 |
| Massena | 24.0 | 27.6 | 32.7 | 45.0 | 58.7 | e69.6 | 73.4 | 75.2 | 62.5 | a50.8 | 41.6 | 13.7 | 47.9 | 102 | −17 | May 10 | Oct. 12 |
| Mount Ayr | 24.9 | 30.6 | 36.4 | 47.0 | 60.2 | 70.5 | 74.6 | 78.1 | 65.8 | 52.6 | 46.8 | 16.8 | 50.4 | 99 | −14 | May 10 | Oct. 12 |
| *Mount Pleasant | 25.8 | 31.0 | 36.4 | 48.5 | 59.9 | 71.4 | 72.3 | 77.2 | 63.7 | 50.9 | 47.7 | 18.2 | 50.7 | 94 | −13 | May 3 | Oct. 12 |
| New Hampton | 18.0 | 21.2 | 28.7 | 40.2 | 55.2 | 67.0 | 70.0 | 72.1 | 59.4 | 46.3 | 39.2 | 12.6 | 44.2 | 92 | −24 | May 4 | Oct. 12 |
| Newton | 22.8 | 29.0 | 33.6 | 45.6 | 58.8 | 70.5 | 72.5 | 77.4 | 63.6 | 51.2 | 45.6 | 16.8 | 49.0 | 96 | −16 | May 3 | Oct. 12 |
| Northwood | 16.4 | 20.1 | d30.0 | b39.3 | f56.4 | 66.5 | 70.2 | | b60.4 | 46.6 | 37.6 | 13.3 | | | −25 | May 10 | Oct. 12 |
| *Odebolt | 20.8 | 25.0 | 30.8 | 43.4 | 58.5 | 70.3 | 73.2 | 78.0 | 63.0 | 50.0 | 40.3 | 14.2 | 47.3 | 97 | −17 | May 10 | Oct. 12 |
| Olin | | 30.0 | 34.8 | 45.0 | 58.0 | | 70.2 | 71.2 | 59.2 | 49.0 | | | | 92 | | May 4 | Sept. 26 |
| Onawa | 22.2 | 27.4 | 35.0 | 46.4 | 60.6 | 71.2 | 74.8 | 79.0 | 65.3 | 52.5 | 41.6 | 16.1 | 49.3 | 96 | −15 | May 10 | Oct. 12 |
| Osage | 17.6 | 22.0 | 29.6 | 41.0 | 57.4 | 68.0 | 71.9 | 75.0 | 61.8 | 48.5 | 40.0 | 13.6 | 45.5 | 96 | −24 | May 10 | Oct. 12 |
| Oskaloosa | 24.5 | 29.9 | 35.0 | 46.4 | 59.1 | 70.2 | 72.6 | 76.9 | 63.2 | 50.8 | 46.5 | 17.4 | 49.4 | 96 | −13 | May 10 | Oct. 12 |
| *Ottumwa | 28.4 | 32.8 | 40.0 | | | | | | | 50.4 | 48.4 | 19.0 | | | | | |
| Pacific Junction | 23.0 | 29.6 | 35.2 | 46.9 | 59.6 | 69.8 | 74.6 | 76.0 | 63.6 | 51.0 | 42.4 | 14.4 | 48.8 | 98 | −18 | May 10 | Oct. 12 |
| Pella | | | | 46.5 | 58.5 | 69.1 | 71.4 | 74.9 | 62.8 | 51.0 | 45.7 | 17.6 | | 95 | | May 10 | Sept. 27 |
| Perry | 21.1 | 27.3 | 30.2 | 43.4 | 58.6 | 70.2 | 72.6 | 76.6 | 62.8 | 49.8 | 42.8 | 15.0 | 47.5 | 96 | −16 | May 10 | Oct. 11 |
| Plover | 17.6 | 21.8 | 29.6 | 41.4 | 56.6 | 68.5 | 72.1 | 75.4 | 61.2 | 48.3 | 37.8 | 13.2 | 45.3 | 97 | −21 | May 10 | Oct. 11 |
| Pocahontas | 17.8 | 22.2 | 29.0 | 40.6 | 55.4 | 66.8 | 70.8 | 74.8 | 60.0 | 47.8 | 37.7 | 12.5 | 44.6 | 93 | −20 | May 10 | Oct. 11 |
| Ridgeway | 19.3 | 23.0 | 29.8 | 41.0 | 56.7 | 68.2 | 71.9 | 75.4 | 62.0 | 49.2 | 41.3 | 15.2 | 46.1 | 102 | −26 | May 4 | Oct. 12 |
| Rock Rapids | 13.8 | 19.9 | 29.2 | 37.0 | 56.1 | 68.4 | 73.8 | 77.3 | 63.3 | 48.6 | 37.8 | 11.0 | 44.7 | 97 | | May 10 | Oct. 12 |
| Rockwell City | 20.8 | 25.6 | 31.9 | 41.6 | 58.6 | 71.3 | 73.5 | 77.7 | 61.6 | 49.0 | 41.4 | 14.8 | 47.3 | 97 | −19 | May 3 | Oct. 11 |
| Sac City | | | c30.6 | 44.1 | a57.6 | 68.8 | 70.9 | 76.2 | 61.6 | 49.6 | 39.3 | 14.1 | | 94 | | May 10 | Oct. 12 |
| St. Charles | 24.2 | 30.1 | 34.7 | 46.1 | 59.0 | 69.2 | 72.8 | 78.1 | 64.8 | 53.0 | 46.4 | 17.8 | 49.7 | 98 | −15 | May 24 | Oct. 11 |
| Sheldon | 18.0 | | a29.8 | 41.8 | 56.2 | 67.8 | c71.8 | 77.0 | 61.0 | 49.2 | 37.8 | 11.9 | | 101 | −22 | May 10 | Oct. 12 |
| *Sibley | 14.7 | 17.4 | b28.3 | 40.9 | 54.2 | 65.4 | 69.3 | 73.8 | 59.0 | a45.8 | a34.8 | 10.1 | 42.8 | 94 | −24 | May 11 | Oct. 12 |
| Sigourney | 24.6 | 29.8 | 35.8 | 47.0 | 59.8 | 70.6 | 73.2 | 78.0 | 64.0 | 50.9 | 46.4 | 17.7 | 49.8 | 98 | −14 | May 3 | Oct. 12 |
| Sioux Center | 16.8 | 20.8 | 29.6 | 40.6 | 56.6 | 67.7 | b71.0 | 74.9 | 60.2 | 48.6 | 36.2 | 12.0 | 44.6 | 94 | −21 | May 10 | Oct. 11 |
| Sioux City | 19.2 | 23.6 | 31.8 | 41.8 | 58.0 | 68.5 | 72.2 | 76.8 | 63.0 | 50.6 | 39.3 | 12.8 | 46.5 | 96 | −17 | May 10 | Oct. 12 |
| *Stockport | b26.3 | 31.6 | 36.8 | 47.6 | 58.5 | 70.4 | 72.0 | 76.9 | 63.7 | 49.5 | 46.2 | 16.6 | 49.7 | 95 | −22 | May 3 | Oct. 12 |
| Storm Lake | 18.6 | a23.1 | 30.6 | 42.2 | 57.0 | e67.3 | 71.0 | 76.0 | 62.0 | d50.3 | d40.0 | b14.3 | 46.0 | 93 | −21 | May 3 | Oct. 11 |
| Thurman | 23.2 | 29.8 | 35.2 | 47.0 | 60.1 | 71.6 | 75.8 | 77.4 | 64.6 | 52.4 | 44.0 | 14.6 | 49.6 | 98 | −18 | May 10 | Oct. 12 |
| Tipton | 23.4 | 29.5 | a35.4 | 46.8 | 59.9 | 71.1 | 74.2 | 78.8 | 64.8 | 50.6 | 45.6 | 17.4 | 49.8 | 100 | −14 | May 3 | Oct. 12 |
| Toledo | 20.6 | 26.2 | 32.4 | 43.7 | 57.6 | 68.9 | 71.4 | 75.6 | a61.0 | 50.2 | 44.2 | 15.5 | 47.3 | 95 | −20 | May 10 | Sept. 27 |
| Wapello | 26.6 | a30.6 | 37.1 | 48.4 | 59.6 | b68.9 | 71.3 | 76.2 | c64.6 | 50.7 | 48.2 | 19.4 | 50.1 | 92 | −11 | May 3 | Oct. 12 |
| Washington | 23.5 | 30.4 | 35.6 | 46.8 | 58.8 | 69.5 | 71.8 | 77.0 | 63.4 | 50.6 | 46.4 | 17.8 | 49.3 | 97 | −15 | May 3 | Oct. 12 |
| Washta | 18.8 | 23.6 | 30.4 | 43.2 | 56.7 | 67.7 | 70.8 | 76.2 | 61.2 | 49.6 | 37.7 | 13.2 | 48.5 | 97 | −21 | May 16 | Sept. 23 |
| Waterloo | a21.8 | 24.3 | 31.3 | 42.2 | 57.0 | 69.1 | 72.4 | 76.4 | 62.2 | 48.9 | 42.8 | 15.3 | 47.0 | 98 | −20 | May 10 | Oct. 12 |
| *Waukee | 22.6 | 28.2 | 33.1 | 45.2 | 57.8 | 69.2 | 71.8 | 77.0 | 63.2 | 51.3 | 43.8 | a14.4 | 48.1 | 95 | −15 | May 10 | Oct. 12 |
| Waverly | 19.4 | 24.0 | 30.6 | 42.0 | 56.7 | 67.1 | 71.2 | 74.4 | 61.1 | b48.7 | 41.9 | 14.9 | 46.0 | 92 | −21 | May 10 | Oct. 11 |
| Webster City | 21.5 | 27.2 | 31.6 | 43.9 | 57.4 | 70.0 | 73.2 | 76.6 | 64.1 | 50.6 | 43.4 | 15.5 | 47.9 | 98 | −19 | May 10 | Oct. 12 |
| West Bend | 18.5 | 22.7 | a29.8 | 41.1 | 56.8 | 68.8 | 72.0 | 75.0 | 60.8 | 48.5 | 38.6 | 13.8 | 45.5 | 96 | −21 | May 10 | Oct. 11 |
| Whitten | 20.3 | 25.6 | | 42.6 | 57.2 | 69.0 | 72.3 | e75.4 | 62.0 | 49.4 | 42.5 | a14.6 | | 96 | −22 | May 10 | Oct. 12 |
| Wilton Junction | 24.2 | 29.0 | 34.2 | 44.0 | | 68.0 | 73.1 | 76.4 | 63.4 | 51.0 | 48.2 | 17.8 | | 96 | −14 | May 11 | Oct. 12 |
| Winterset | 23.4 | 28.8 | 34.0 | 45.6 | 60.2 | 71.0 | 75.0 | 78.2 | 64.4 | 51.0 | 44.2 | 16.5 | 49.4 | 96 | −14 | May 10 | Oct. 12 |
| Woodburn | 24.3 | 29.6 | 34.6 | 46.0 | 57.9 | 69.0 | 72.3 | 76.7 | 63.5 | 50.6 | 47.2 | 16.6 | 48.9 | 98 | −15 | May 10 | Oct. 12 |
| Zearing | 19.2 | 25.9 | 30.6 | 44.4 | 56.8 | 69.4 | 71.8 | 76.2 | 62.8 | 49.1 | 42.4 | 14.6 | 46.9 | 98 | −19 | May 10 | Sept. 27 |
| *Kansas.* | | | | | | | | | | | | | | | | | |
| Agricultural College | 27.0 | 35.6 | 40.7 | 52.0 | 62.6 | 73.7 | 78.5 | 80.2 | 68.8 | 56.9 | 49.8 | 21.3 | 53.9 | 102 | −17 | May 10 | Oct. 12 |
| Alton | 26.6 | 34.6 | 40.9 | 51.6 | 62.2 | 73.0 | 78.4 | 81.6 | 68.4 | 55.2 | 45.4 | 17.3 | 52.9 | 106 | −12 | May 1 | Oct. 12 |
| Anthony | 32.3 | 41.2 | 46.3 | 56.9 | 66.3 | 76.3 | 81.6 | 82.6 | 73.4 | 59.1 | 51.7 | 28.0 | 58.0 | 113 | − 8 | May 1 | Oct. 12 |
| Ashland | 33.1 | 40.2 | 44.5 | 55.3 | 64.0 | 75.6 | 82.0 | 82.9 | 73.6 | 58.4 | 49.4 | 28.2 | 57.3 | 114 | −15 | May 1 | Oct. 12 |
| Atchison | 28.6 | 34.6 | 40.0 | 52.4 | 62.0 | 72.8 | 77.4 | 80.1 | | 56.6 | 50.0 | 20.8 | | 99 | −13 | May 1 | Oct. 12 |
| *Baker | | 33.2 | 37.2 | 47.2 | 59.5 | 70.3 | 75.0 | 76.3 | 65.4 | 53.1 | 46.5 | 17.1 | | 101 | | May 10 | Oct. 12 |
| Blakeman | 27.3 | 30.6 | 36.4 | 47.0 | 58.8 | 69.4 | 76.4 | 77.2 | 63.9 | 52.6 | 41.4 | 18.0 | 49.9 | 101 | −17 | May 9 | Oct. 12 |
| Burlington | 33.7 | 37.8 | 44.3 | 55.1 | 63.8 | 74.5 | 79.0 | 80.4 | 71.6 | 58.2 | 50.2 | 25.4 | 56.2 | 107 | − 3 | May 1 | Oct. 12 |
| Centralia | | | | 48.2 | 60.0 | 70.8 | 75.4 | 77.4 | 66.7 | 54.2 | 46.6 | 17.9 | | 100 | | May 10 | Oct. 12 |
| Chanute | | 44.3 | 47.1 | | 66.7 | 75.0 | 77.8 | 81.0 | 73.2 | 60.8 | 54.4 | 26.6 | | 105 | | May 1 | Oct. 12 |
| Chapman | 28.4 | 36.6 | 41.1 | 52.3 | 61.8 | 73.8 | 79.0 | 80.9 | 70.3 | 56.4 | 48.0 | 21.0 | 54.1 | 105 | −15 | May 10 | Oct. 12 |
| Cimarron | 30.5 | 37.0 | 40.2 | 51.4 | 60.4 | 72.4 | 79.3 | 79.2 | | 55.8 | 46.4 | 20.9 | | 105 | −13 | May 1 | Oct. 12 |
| *Clay Center | 26.2 | 35.3 | 41.0 | 51.3 | 62.0 | 73.4 | 78.4 | 80.4 | 69.2 | 56.0 | 47.5 | 18.8 | 53.3 | 108 | −15 | May 10 | Oct. 12 |
| Colby | 29.2 | 32.6 | 38.3 | 48.4 | 59.4 | 70.4 | 75.8 | 78.4 | 65.2 | 54.1 | 42.9 | 18.4 | 51.1 | 101 | −14 | May 9 | Oct. 12 |
| Coldwater | 31.6 | 42.8 | 44.5 | 54.6 | 64.2 | 74.2 | 81.0 | 82.2 | 72.8 | 58.8 | 49.6 | 26.4 | 56.9 | 110 | −10 | May 1 | Oct. 12 |
| Columbus | 35.6 | 39.6 | 45.8 | 55.8 | 63.9 | 75.0 | 80.0 | 81.8 | 72.7 | 59.6 | 54.6 | 27.2 | 57.6 | 108 | − 9 | May 1 | Oct. 12 |
| *Concordia | 25.0 | 33.8 | 39.9 | 49.6 | 61.4 | 72.8 | 77.9 | 79.8 | 67.7 | 55.8 | | 18.3 | | 103 | − 7 | May 10 | Oct. 12 |
| Coolidge | 27.2 | | 42.4 | 53.4 | 60.0 | 71.7 | 77.3 | 76.4 | 66.7 | 54.2 | 44.2 | 23.2 | | 97 | −20 | May 1 | Oct. 12 |
| Cottonwood Falls | 30.3 | 35.8 | 42.0 | 54.3 | 62.2 | 73.0 | 77.4 | 78.9 | 71.0 | 57.9 | 50.1 | 23.2 | 54.7 | 102 | −17 | May 10 | Oct. 12 |
| Council Grove | 29.8 | 35.4 | 42.2 | 53.7 | 62.2 | 72.3 | 77.7 | 76.3 | 68.2 | 59.6 | 52.2 | 22.7 | 54.4 | 102 | −17 | May 10 | Oct. 12 |
| Cunningham | 30.6 | 40.0 | 45.7 | 54.4 | 63.6 | 77.2 | 81.0 | 82.2 | 73.4 | 58.2 | 50.2 | 27.8 | 57.0 | 109 | −12 | May 1 | Oct. 12 |
| Densmore | | | | | 64.5 | 71.4 | 77.2 | 80.2 | 67.2 | 55.4 | 44.0 | 18.7 | | 103 | | | Oct. 12 |
| *Dodge City | 30.0 | 36.2 | 40.7 | 51.4 | 61.4 | 73.7 | 79.5 | 80.7 | 70.2 | 56.2 | 47.0 | 22.2 | 54.1 | 103 | − 8 | May 2 | Oct. 12 |
| *Dresden | 27.2 | 32.6 | 38.3 | 47.2 | 59.7 | 70.4 | 77.0 | 78.8 | 66.6 | 54.9 | 43.9 | 18.9 | 51.3 | 102 | −13 | May 1 | Oct. 12 |
| Elderado | 31.8 | 38.0 | 43.8 | 55.9 | 63.1 | 73.8 | 79.0 | 81.2 | 71.6 | 58.9 | 51.6 | 25.8 | 56.2 | 105 | −14 | May 1 | Oct. 12 |
| Ellinwood | 28.0 | 38.3 | 42.9 | 53.6 | 62.8 | 74.1 | 79.7 | 80.7 | 71.0 | 57.5 | 48.9 | 23.6 | 55.1 | 105 | −15 | May 1 | Oct. 12 |
| Ellsworth | 26.4 | 35.5 | 40.7 | 51.9 | 63.2 | 72.4 | 77.5 | 79.2 | 68.6 | 56.8 | 46.9 | 21.0 | 53.3 | 107 | −19 | May 10 | Oct. 12 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *Kansas*—Contd. | | | | | | | | | | | | | | | | | |
| *Emporia | 30.7 | 37.2 | 42.4 | 54.6 | 62.2 | 73.0 | 77.5 | 79.2 | 71.6 | 58.4 | 50.6 | 23.2 | 55.0 | 102 | −12 | May 1 | Oct. 12 |
| Enterprise | 27.9 | 36.2 | 41.2 | 53.2 | 62.4 | 73.9 | 77.8 | 80.6 | 70.2 | 58.7 | 49.4 | 20.6 | 54.3 | 105 | −18 | May 10 | Oct. 12 |
| Eskridge | 28.3 | 34.6 | 40.2 | 51.8 | 63.6 | 72.0 | 76.2 | 77.8 | 69.2 | 57.2 | 49.7 | 21.2 | 53.5 | 99 | − 8 | May 1 | Oct. 12 |
| Eureka | 35.0 | 36.8 | 43.8 | 56.2 | 63.0 | 73.8 | 78.6 | 79.4 | 72.0 | 58.2 | 51.6 | 25.4 | 56.2 | 104 | −12 | May 1 | Oct. 12 |
| Fall River | 34.8 | 39.0 | 44.6 | 56.0 | 63.7 | 74.0 | 79.2 | 80.7 | 72.7 | 59.2 | 52.8 | 27.1 | 57.0 | 110 | −12 | May 1 | Oct. 12 |
| Farnsworth | 29.7 | 35.8 | 40.6 | 51.4 | 60.2 | 71.4 | 76.8 | 78.7 | 68.1 | 55.4 | 45.8 | 21.4 | 52.9 | 102 | −11 | May 1 | Oct. 12 |
| *Fort Scott | 33.8 | 38.3 | 43.6 | 54.0 | 62.4 | 74.0 | 77.2 | 78.6 | 69.6 | 57.2 | 52.2 | 24.0 | 55.4 | 103 | −13 | May 1 | Oct. 12 |
| Frankfort | 26.8 | 33.6 | 40.0 | 49.8 | 60.6 | 73.0 | 78.3 | 79.2 | 68.0 | 55.4 | 47.6 | 19.0 | 52.6 | 106 | −13 | May 10 | Oct. 12 |
| Fredonia | 35.0 | 40.0 | 46.0 | 57.2 | 63.9 | 73.6 | 79.2 | 81.9 | 74.4 | 62.0 | 53.6 | 26.6 | 57.8 | 109 | − 9 | May 1 | Oct. 12 |
| Garden City | 31.0 | 35.8 | 40.6 | 52.2 | 60.4 | 73.0 | 77.9 | 79.8 | 69.6 | 56.0 | 45.8 | 24.6 | 53.9 | 103 | −13 | May 1 | Oct. 12 |
| Garnett | | 37.8 | 43.6 | 55.2 | 63.6 | 73.4 | 77.9 | 79.6 | 70.0 | | | | | 105 | | May 1 | |
| Goodland | 29.2 | | | | 57.4 | | | | | | | | | | | | |
| Gove | 28.2 | 33.8 | 38.6 | | 60.2 | 71.5 | 76.5 | 79.8 | 69.4 | 58.8 | 48.6 | 24.6 | 53.2 | 100 | − 6 | May 1 | Oct. 12 |
| Greensburg | 29.0 | 39.6 | 43.0 | 53.9 | 62.3 | 72.6 | 79.4 | 80.4 | 70.4 | 56.7 | 48.2 | 25.6 | 55.1 | 104 | −14 | May 1 | Oct. 12 |
| Grenola | 32.4 | 38.4 | 44.0 | 55.0 | 62.2 | 73.4 | 78.6 | 79.8 | 71.6 | 58.2 | 50.8 | 25.8 | 55.8 | 107 | − 9 | May 1 | Oct. 12 |
| Hanover | 26.2 | 34.8 | 40.0 | 50.4 | 61.8 | 72.2 | 78.3 | 80.6 | 69.0 | 56.8 | 47.2 | 18.1 | 53.0 | 107 | − 9 | May 10 | Oct. 12 |
| Harrison | 24.2 | 31.6 | 38.0 | 49.2 | 60.6 | 71.6 | 76.5 | 79.2 | 66.5 | 53.8 | 43.7 | 15.7 | 50.9 | 105 | −15 | May 10 | Oct. 12 |
| Hays | 27.4 | 34.4 | 40.2 | 50.4 | 61.2 | 71.8 | 77.6 | 78.6 | 67.4 | 54.6 | 45.7 | 21.0 | 52.5 | 102 | −12 | May 1 | Oct. 12 |
| Hill City | 29.4 | 34.2 | 40.4 | | | 71.5 | | | | | | 20.8 | | | | | |
| Horton | 26.9 | 33.9 | 38.6 | 48.5 | 60.3 | 70.8 | 75.8 | 78.0 | 67.2 | 55.5 | 47.8 | 19.0 | 51.9 | 98 | −10 | May 1 | Oct. 12 |
| Hoxie | 28.0 | 32.2 | 38.1 | 48.6 | 60.1 | 71.8 | 77.6 | 79.8 | 66.8 | 54.2 | 42.3 | 20.0 | 51.6 | 104 | −12 | May 1 | Oct. 12 |
| Hugoton | 34.8 | 39.0 | 41.6 | 52.4 | 61.0 | 73.2 | 78.4 | 80.3 | 69.9 | 56.6 | 48.2 | 27.0 | 55.2 | 102 | − 4 | May 1 | Oct. 12 |
| *Hutchinson | 29.0 | 38.6 | 43.2 | 54.4 | 63.4 | 74.1 | 79.1 | 80.4 | 71.8 | 58.0 | 49.4 | 25.2 | 55.6 | 105 | −15 | May 1 | Oct. 12 |
| Independence | 35.0 | 40.9 | 46.2 | 57.0 | 64.7 | 74.7 | 80.4 | 82.6 | 74.1 | 61.0 | 54.8 | 29.4 | 58.4 | 109 | − 6 | May 1 | Oct. 12 |
| *Iola | 32.2 | 38.4 | 44.0 | 54.6 | 63.3 | 74.1 | 78.6 | 80.2 | 71.8 | 58.0 | 51.8 | 24.3 | 55.9 | 104 | − 6 | May 1 | Oct. 12 |
| Jetmore | 29.6 | 37.2 | 41.1 | 52.1 | 61.2 | 72.6 | 78.6 | 79.6 | 70.0 | 55.8 | 47.9 | 21.4 | 53.9 | 105 | −11 | May 1 | Oct. 12 |
| Jewell | | 32.0 | 38.0 | 50.0 | 60.9 | 70.2 | 77.2 | 81.4 | 67.6 | 56.3 | 44.3 | 17.1 | | 107 | − 9 | May 10 | Oct. 12 |
| Kingman | 30.9 | 40.6 | 45.3 | 56.4 | 64.8 | 75.6 | 80.8 | 81.4 | 72.6 | 59.5 | 50.4 | 27.1 | 57.1 | 108 | −13 | May 1 | Oct. 12 |
| La Crosse | 28.0 | 35.7 | | 52.1 | 62.1 | 72.4 | 78.4 | 80.6 | 71.6 | 55.4 | 50.4 | 21.8 | 54.4 | 106 | −10 | May 1 | Oct. 12 |
| Lakin | 30.8 | 34.9 | 40.7 | 52.7 | 60.1 | 74.3 | 79.0 | 79.1 | 67.4 | 54.0 | 44.1 | 23.4 | 53.4 | 104 | −15 | May 1 | Oct. 12 |
| Larned | | 36.4 | 39.6 | | 61.8 | 73.8 | 80.4 | 82.0 | 70.8 | 56.6 | 48.3 | 23.6 | | 107 | −18 | May 1 | Oct. 12 |
| Lawrence | 30.6 | 36.0 | 41.8 | 52.8 | 62.0 | 72.4 | 76.2 | 77.9 | 67.0 | 55.9 | 50.8 | 22.6 | 53.8 | 94 | −10 | May 1 | Oct. 12 |
| Lebanon | 24.4 | 30.6 | 38.7 | 48.8 | 62.2 | 72.5 | 77.8 | 79.6 | | 56.2 | 44.0 | 17.2 | | 104 | −10 | May 1 | Oct. 12 |
| Lebo | 30.4 | 36.3 | 42.4 | 54.2 | 63.4 | 72.6 | 76.8 | 78.8 | 70.4 | 57.8 | 50.1 | 22.9 | 54.7 | 100 | −12 | May 1 | Oct. 12 |
| Liberal | 35.5 | 39.2 | 44.0 | 54.1 | | 74.8 | | 80.6 | 71.8 | 57.2 | 49.4 | 26.6 | | 108 | −12 | May 1 | Oct. 12 |
| *Macksville | 28.4 | 38.8 | 43.0 | 53.8 | 61.2 | 73.0 | 78.8 | 79.9 | 70.7 | 56.7 | 49.0 | 24.2 | 54.8 | 106 | − 6 | May 1 | Oct. 12 |
| *McPherson | 28.2 | 38.2 | 42.7 | 53.4 | 63.3 | 74.8 | 79.2 | 79.8 | 72.0 | 59.2 | 49.6 | 23.2 | 55.3 | 103 | −10 | | |
| Madison | | | 42.2 | 55.0 | 62.3 | 73.4 | 77.6 | 79.0 | 71.5 | 58.0 | 49.4 | | | 100 | | May 1 | Oct. 12 |
| *Manhattan | 26.2 | 33.9 | 40.6 | 50.8 | 62.1 | 74.0 | 78.2 | 80.2 | 68.6 | 56.6 | 48.0 | 21.0 | 53.4 | 102 | −17 | May 10 | Oct. 12 |
| Mankato | | | | | | 72.4 | 77.3 | 79.5 | 67.3 | 55.7 | 45.8 | 17.2 | | 104 | − 8 | | Oct. 12 |
| Marion | | 37.6 | 43.7 | 54.3 | 62.8 | 74.5 | 79.0 | 80.5 | 70.6 | 58.4 | 49.7 | 23.6 | | 106 | | May 1 | Oct. 12 |
| Medicine Lodge | 31.8 | 41.4 | 45.4 | 56.0 | 64.3 | 76.0 | 81.4 | 82.0 | 72.2 | 57.6 | 49.4 | 27.0 | 57.1 | 113 | −10 | May 1 | Oct. 12 |
| Minneapolis | 25.3 | 35.8 | 41.4 | 51.6 | 61.2 | 72.4 | 77.6 | 80.6 | 68.4 | 55.6 | 46.4 | 19.6 | 53.0 | 104 | −15 | May 10 | Oct. 12 |
| Moran | 33.8 | 38.5 | 44.7 | 56.4 | 64.3 | 73.8 | 78.5 | 81.2 | 78.8 | | 53.4 | 25.4 | | 108 | −10 | May 1 | Oct. 12 |
| Newton | 31.0 | 40.6 | | 54.5 | 63.4 | | 79.6 | | | 60.2 | 51.4 | 23.8 | | 110 | −15 | May 1 | Oct. 12 |
| Ness City | | | 42.8 | | 63.0 | | | | | | | | | | | May 1 | |
| Norton | 26.9 | 31.4 | 37.8 | 48.1 | 60.8 | 70.6 | 77.0 | 79.8 | 67.5 | 54.2 | 44.8 | 17.8 | 51.4 | 104 | −20 | May 1 | Oct. 12 |
| Norwich | 31.6 | 40.4 | 45.4 | 57.2 | 65.3 | 76.0 | 82.2 | 83.3 | 74.6 | 60.5 | 51.6 | 27.3 | 58.0 | 110 | − 7 | May 1 | Oct. 12 |
| Oketo | 26.5 | 31.8 | 39.0 | | 61.2 | 72.6 | 77.5 | 79.9 | 68.7 | 56.8 | | | | 104 | − 5 | May 10 | Oct. 12 |
| Olathe | 30.3 | 35.6 | 42.6 | 53.7 | 62.3 | 72.6 | 76.8 | 79.4 | 68.4 | 57.2 | 51.0 | 22.1 | 54.3 | 102 | −11 | May 1 | Oct. 12 |
| *Osage City | 29.6 | 35.8 | 41.8 | 52.8 | 62.2 | 73.2 | 77.3 | 80.4 | | 57.0 | 50.2 | 23.5 | 54.7 | 104 | − 9 | May 1 | Oct. 12 |
| *Oswego | 36.0 | 40.5 | 45.9 | 57.0 | 64.4 | 75.1 | 80.8 | 83.4 | 75.0 | 61.7 | 56.0 | 28.6 | 58.7 | 109 | −13 | May 1 | Oct. 12 |
| Ottawa | 30.8 | 36.0 | 42.4 | 53.7 | 62.0 | 73.0 | 76.4 | 78.2 | 68.4 | 56.2 | 50.4 | 22.2 | 54.1 | 102 | −14 | May 1 | Oct. 12 |
| Paola | 31.4 | 36.8 | 44.4 | 53.9 | | | | | | | | | | | −10 | | |
| Phillipsburg | 27.5 | 33.4 | 39.9 | 50.2 | 62.4 | 71.9 | 77.2 | 81.4 | 68.2 | | 44.8 | 18.2 | | 108 | −14 | May 1 | |
| Pleasanton | 32.7 | 36.8 | 43.8 | 54.4 | 62.6 | 72.1 | 76.0 | 78.0 | 69.6 | 57.8 | 52.2 | 24.5 | 55.0 | 97 | −10 | May 1 | Oct. 12 |
| Pratt | 30.1 | 40.4 | 44.2 | 53.6 | 63.4 | 74.3 | | 80.8 | 70.9 | 57.1 | 48.4 | 24.6 | | 108 | −11 | May 1 | Oct. 12 |
| Republic | 25.4 | 34.2 | | | | | 74.9 | 79.4 | 65.0 | | | | | 104 | −10 | May 10 | Oct. 12 |
| Rome | 34.0 | 40.4 | 45.1 | 58.2 | 64.1 | 75.2 | 80.0 | 80.4 | 71.2 | 59.1 | 52.2 | 27.4 | 57.3 | 107 | − 7 | May 1 | Oct. 12 |
| *Russell | 27.6 | 35.8 | 41.6 | 50.2 | 60.8 | | | | | 57.2 | 46.5 | 20.6 | | | − 8 | May 1 | Oct. 12 |
| Salina | 27.0 | 37.4 | 42.2 | 53.5 | 63.0 | 73.4 | 78.2 | 80.9 | 69.8 | 57.2 | 48.2 | 21.2 | 54.3 | 109 | −18 | May 10 | Oct. 12 |
| St. Francis | 29.4 | 32.0 | 38.2 | 48.4 | 52.9 | 69.1 | 76.4 | 77.6 | 65.4 | 53.0 | 41.8 | 18.0 | 50.2 | 104 | −16 | May 9 | Oct. 12 |
| *Scott | 30.3 | 35.6 | 40.9 | 52.0 | 61.0 | 72.8 | 77.6 | 79.8 | 69.4 | 55.8 | 47.4 | 22.9 | 53.8 | 107 | −17 | May 1 | Oct. 12 |
| *Sedan | 35.0 | 40.2 | 45.4 | 55.8 | 63.4 | 75.5 | 80.2 | 81.2 | 72.0 | 61.6 | 54.4 | 27.8 | 57.7 | 106 | − 8 | May 1 | Oct. 12 |
| *Topeka | 28.2 | 35.6 | 41.5 | 52.1 | 63.2 | 73.8 | 78.0 | 79.8 | 68.8 | 56.6 | 49.8 | 21.2 | 54.0 | 102 | −10 | May 1 | Oct. 12 |
| *Toronto | 31.6 | 37.0 | 45.2 | 55.5 | 64.2 | 75.0 | 79.2 | 81.4 | 72.8 | 58.5 | 52.2 | 25.4 | 56.5 | 108 | −13 | May 1 | Oct. 12 |
| Ulysses | 33.3 | 37.8 | | | | 74.6 | | | 68.6 | 56.4 | | 24.0 | | 103 | −14 | May 1 | Oct. 12 |
| Valley Falls | 29.6 | 35.2 | 41.2 | 52.5 | 62.2 | 72.4 | 76.4 | 77.8 | 67.4 | 56.3 | 49.4 | 21.2 | 53.5 | 98 | −18 | May 1 | Oct. 12 |
| Vineland | | | | | 63.0 | 72.6 | 76.1 | 78.8 | 67.8 | 56.9 | 50.2 | 23.2 | | 98 | | May 1 | Oct. 12 |
| Wakeeney | 28.4 | 35.8 | 39.6 | 50.8 | 60.8 | 71.2 | 76.5 | 79.4 | 68.1 | 55.6 | 45.9 | 20.6 | 52.7 | 103 | −10 | May 1 | Oct. 12 |
| Wallace | 28.2 | 34.0 | 38.4 | 49.4 | 58.6 | 69.6 | 76.2 | 78.0 | 67.0 | 54.2 | 42.0 | 19.9 | 51.3 | 102 | −13 | May 9 | Oct. 12 |
| Walnut | 35.0 | 38.4 | 44.8 | 55.0 | 63.6 | 73.4 | 80.8 | 81.5 | 74.2 | 60.0 | 52.9 | 26.6 | 57.2 | 110 | −10 | May 1 | Oct. 12 |
| Wellington | 31.0 | 39.5 | 44.2 | 55.4 | 63.7 | 74.2 | | | | | | | | | − 8 | May 1 | |
| *Wichita | 30.6 | 38.0 | 43.2 | 54.8 | 63.7 | 74.0 | 79.6 | 81.0 | 72.5 | 59.0 | 50.8 | 24.8 | 56.0 | 106 | − 5 | May 1 | Oct. 12 |
| Winfield | 33.4 | 39.8 | 44.6 | 58.2 | 64.0 | 75.7 | 80.4 | 80.4 | 70.6 | 58.5 | 51.8 | 25.6 | 56.9 | 105 | − 7 | May 1 | Oct. 12 |
| Yates Center | 35.5 | | 44.6 | | 63.7 | 74.2 | 78.8 | 80.9 | 72.8 | 59.6 | 52.9 | 26.2 | | 108 | −13 | May 1 | Oct. 12 |
| *Kentucky.* | | | | | | | | | | | | | | | | | |
| Alpha | 43.8 | 47.2 | 47.7 | 58.8 | 64.4 | 73.4 | 74.5 | 76.0 | 67.4 | 57.8 | 58.6 | 34.6 | 58.7 | 96 | 5 | Apr. 11 | Oct. 13 |
| Anchorage | 35.8 | 40.4 | 42.9 | 52.7 | 61.4 | 73.1 | 72.9 | 75.8 | 66.3 | 51.7 | 53.0 | 27.8 | 54.5 | 98 | − 6 | May 2 | Sept. 27 |
| *Bardstown | 38.0 | 42.2 | 44.6 | 56.4 | 64.8 | 76.0 | 75.6 | 79.0 | 69.6 | 56.0 | 55.0 | 30.0 | 57.3 | 102 | − 3 | May 2 | Oct. 15 |
| *Beattyville | 37.0 | 41.4 | 42.6 | 55.0 | 62.6 | 73.4 | 73.0 | 75.3 | 66.8 | 52.7 | 50.7 | 28.5 | 54.9 | 98 | −11 | May 2 | Oct. 13 |
| *Beaver Dam | 36.8 | 40.8 | 44.2 | 55.8 | 64.1 | 75.8 | 75.8 | 78.3 | 67.6 | 56.4 | 55.4 | 28.8 | 53.6 | 102 | − 4 | May 2 | Oct. 13 |
| Berea | 40.2 | 44.4 | 44.5 | 57.8 | 64.4 | 73.6 | 74.0 | 75.2 | 67.2 | 54.6 | 55.4 | 32.2 | 57.0 | 97 | − 5 | May 2 | Oct. 13 |
| Blandville | 38.7 | 44.6 | 46.4 | 57.2 | 62.8 | 73.8 | 75.7 | 79.1 | 68.5 | 57.3 | 57.1 | 31.5 | 57.7 | 95 | 0 | May 2 | Oct. 12 |
| *Bowling Green | 39.6 | 43.8 | 47.3 | 59.6 | 66.7 | 77.1 | 77.6 | 80.3 | 70.8 | 58.6 | 56.2 | 31.0 | 59.0 | 101 | 1 | May 2 | Oct. 13 |
| Cadiz | | | 47.6 | 57.5 | | 76.8 | 77.8 | 80.4 | 69.3 | 57.8 | 60.2 | 32.1 | | 102 | − 3 | | |
| Calhoun | 38.8 | 44.0 | 47.8 | 57.6 | 66.2 | 77.4 | 77.7 | 80.4 | 70.4 | 58.4 | 57.6 | 31.2 | 59.0 | 104 | − 2 | May 10 | Oct. 13 |
| *Catlettsburg | 39.5 | 43.4 | 44.8 | 58.6 | 65.6 | 74.4 | 75.4 | 77.4 | 68.8 | 53.8 | 54.2 | 32.8 | 57.4 | 97 | − 4 | Apr. 11 | Oct. 13 |
| *Earlington | 36.8 | 41.1 | 44.6 | 56.8 | 66.5 | 74.9 | 75.3 | 75.9 | 67.0 | 57.2 | 56.2 | 29.3 | 56.8 | 103 | − 4 | May 11 | Sept. 28 |
| Edmonton | 39.6 | 43.6 | 44.8 | 56.8 | 65.0 | 74.2 | 74.8 | 77.2 | 68.7 | 55.7 | 54.6 | 30.2 | 57.1 | 98 | −10 | May 2 | Oct. 12 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *Kentucky*—Contd. | | | | | | | | | | | | | | | | |
| *Eubank | 38.6 | 41.0 | 42.4 | 55.0 | 63.0 | 72.1 | 73.2 | 74.7 | 66.4 | 52.3 | 53.3 | 28.4 | 55.0 | 95 — 3 | May 2 | Oct. 13 |
| *Farmers | 38.2 | 41.8 | 43.2 | 55.4 | 62.7 | 73.2 | 72.0 | 73.9 | 65.6 | 51.6 | 52.6 | 30.2 | 55.0 | 96 —14 | May 4 | Sept. 27 |
| *Frankfort | 38.7 | 42.4 | 44.9 | 57.4 | 63.4 | 74.3 | 73.7 | 75.8 | 67.4 | 53.0 | 54.0 | 30.5 | 56.3 | 94 1 | Apr. 11 | Oct. 13 |
| Franklin | 41.0 | 46.3 | 47.8 | 59.0 | 65.4 | 76.2 | 76.8 | 79.2 | 70.7 | 58.6 | 58.1 | 32.4 | 59.3 | 100 0 | Apr. 10 | Oct. 13 |
| *Greensburg | 37.4 | 39.4 | 43.2 | 54.9 | 63.4 | 73.7 | 72.8 | 75.6 | 66.6 | 52.8 | 52.0 | 26.7 | 55.1 | 99 — 7 | May 2 | Oct. 13 |
| *Hopkinsville | 39.8 | 44.6 | 48.5 | 57.2 | 65.8 | 77.3 | 78.6 | 81.0 | 69.8 | 60.8 | 56.4 | 32.0 | 59.3 | 103 — 8 | May 2 | Oct. 13 |
| Irvington | 38.6 | 43.0 | 45.2 | 56.3 | 64.0 | 75.1 | 75.3 | 77.3 | 68.7 | 55.1 | 55.6 | 30.0 | 57.0 | 95 — 2 | Apr. 10 | Oct. 13 |
| Leitchfield | 37.6 | 41.9 | 44.6 | 55.4 | 63.5 | 74.0 | 74.4 | 76.2 | 67.5 | 55.2 | 55.7 | 29.1 | 56.3 | 95 — 7 | May 2 | Oct. 12 |
| *Lexington | 37.2 | 41.0 | 42.6 | 53.9 | 61.8 | 72.8 | 72.7 | 74.5 | 65.6 | 52.8 | 52.9 | 27.8 | 54.6 | 92 — 4 | Apr. 11 | Oct. 13 |
| Loretto | 39.4 | 43.4 | 44.6 | 56.2 | 64.3 | 74.4 | 73.9 | 76.0 | 68.0 | 54.1 | 54.8 | 30.3 | 56.6 | 98 0 | May 2 | Sept. 28 |
| *Louisville | 37.8 | 42.0 | 45.3 | 55.9 | 64.9 | 76.6 | 76.0 | 78.9 | 69.2 | 55.4 | 55.4 | 29.4 | 57.2 | 99 1 | Apr. 10 | Oct. 13 |
| Lynnville | 40.0 | 45.0 | 49.5 | 58.0 | 64.0 | 74.8 | 76.6 | 80.4 | 69.8 | 59.2 | 56.2 | 32.4 | 58.8 | 103 4 | May 2 | Oct. 13 |
| Marion | 38.6 | 43.6 | 46.6 | 57.6 | 65.1 | 75.6 | 76.6 | 80.6 | 69.6 | 59.0 | 57.0 | 30.4 | 58.4 | 101 — 5 | Apr. 10 | Oct. 12 |
| *Maysville | 36.0 | 39.8 | 41.4 | 54.0 | 62.0 | 73.6 | 73.2 | 75.0 | 66.4 | 51.0 | 51.2 | 27.4 | 54.2 | 99 — 5 | May 2 | Oct. 12 |
| Middlesboro | 43.2 | 44.8 | 47.2 | 57.6 | 64.2 | 73.8 | 72.5 | 72.4 | 63.8 | 50.6 | 49.2 | 31.7 | 55.9 | 92 3 | May 2 | Oct. 13 |
| *Mount Sterling | 38.4 | 41.3 | 42.8 | 54.6 | 62.7 | 73.8 | 73.6 | 74.8 | 65.8 | 51.6 | 51.9 | 28.6 | 55.0 | 94 — 2 | Apr. 11 | Oct. 13 |
| *Owensboro | 35.5 | 42.0 | 44.7 | 55.2 | 64.0 | 75.4 | 75.4 | 77.8 | 67.8 | 54.2 | 55.6 | 28.2 | 56.3 | 97 1 | Apr. 11 | Oct. 12 |
| Owenton | 36.0 | 40.3 | 42.8 | 56.0 | 63.8 | 73.8 | 72.4 | 76.1 | 65.6 | 52.2 | 54.2 | 27.8 | 55.1 | 91 — 5 | May 2 | Oct. 13 |
| *Paducah | 39.6 | 45.0 | 48.6 | 59.8 | 67.7 | 79.4 | 81.1 | 83.0 | 71.8 | 60.0 | 58.4 | 34.4 | 60.7 | 98 4 | Apr. 14 | Oct. 12 |
| *Richmond | 39.6 | 42.8 | 44.4 | 56.8 | 64.1 | 74.2 | 73.9 | 76.4 | 68.6 | 56.0 | 55.4 | 30.6 | 56.9 | 95 — 3 | Apr. 11 | Oct. 13 |
| *St. John | 35.6 | 39.6 | 41.8 | 53.7 | 62.4 | 74.0 | 73.4 | 76.4 | 66.2 | 57.6 | 53.0 | 27.0 | 55.1 | 98 — 4 | May 2 | Oct. 13 |
| Scott | 35.9 | 40.0 | 41.9 | 53.8 | 61.4 | 73.2 | ..... | 75.4 | 66.4 | 52.6 | 54.4 | 25.8 | ..... | 95 — 6 | Apr. 14 | Sept. 28 |
| Shelby City | 37.7 | 41.4 | 43.2 | 54.6 | 62.0 | 71.4 | 71.4 | 73.0 | 65.1 | 52.7 | 53.4 | 27.8 | 54.9 | 92 —11 | May 2 | Sept. 27 |
| *Shelbyville | 36.2 | 40.2 | 42.7 | 53.6 | 64.2 | 73.8 | 72.6 | 74.3 | 65.2 | 52.3 | 53.7 | 28.0 | 54.7 | 94 — 4 | Apr. 10 | Oct. 13 |
| Taylorsville | 37.9 | 41.6 | 43.6 | 55.2 | 62.2 | 74.4 | 73.7 | 75.0 | 66.8 | 51.8 | 51.4 | 28.5 | 55.2 | 96 — 9 | Apr. 10 | Oct. 13 |
| *Williamsburg | 41.2 | 45.5 | 46.8 | 56.0 | 64.4 | 73.6 | 74.9 | 76.4 | 68.2 | ..... | 52.1 | 32.6 | ..... | 95 4 | Apr. 11 | ..... |
| *Williamstown | 34.8 | 36.8 | 39.9 | 51.9 | 60.2 | 72.4 | 77.5 | 74.4 | 68.0 | 54.3 | 55.2 | 28.3 | 54.5 | 93 — 6 | May 3 | Oct. 13 |
| *Louisiana.* | | | | | | | | | | | | | | | | |
| Abbeville | 56.4 | 55.3 | 64.1 | 68.3 | 74.4 | 80.7 | 84.8 | 83.4 | 75.6 | 68.6 | 63.8 | 47.3 | 68.6 | 102 25 | Feb. 25 | Dec. 8 |
| *Alexandria | 52.8 | 52.5 | 60.0 | 66.2 | 71.2 | 80.8 | 85.0 | 83.8 | 77.1 | 66.6 | 63.4 | 43.6 | 66.9 | 106 21 | Feb. 16 | Nov. 19 |
| *Amite | 55.5 | 54.4 | 60.7 | 66.8 | 71.5 | 79.8 | 82.4 | 82.8 | 77.2 | 66.8 | 61.6 | 48.2 | 67.3 | 103 19 | Mar. 16 | Nov. 18 |
| *Baton Rouge | 54.9 | 52.5 | 59.7 | 65.2 | 70.6 | 81.4 | 81.2 | 81.6 | 77.0 | 70.0 | 65.0 | 49.2 | 67.4 | 110 19 | Feb. 3 | Nov. 18 |
| Burnside | 56.8 | 55.6 | 64.7 | 67.2 | 73.0 | 79.6 | 84.9 | 82.3 | 77.6 | 76.7 | 63.8 | 49.8 | 69.3 | 98 23 | Jan. 31 | Dec. 9 |
| *Burrwood | 61.0 | 60.0 | 64.0 | 68.4 | 74.0 | 79.4 | 83.5 | 82.4 | 80.6 | 75.8 | 69.9 | 56.2 | 71.3 | 96 32 | Jan. 31 | None. |
| Calhoun | 51.0 | 52.8 | 58.6 | 64.0 | 70.2 | 79.5 | 83.6 | 83.6 | 76.6 | 66.2 | 62.0 | 42.0 | 65.8 | 110 13 | Feb. 17 | Nov. 18 |
| Cameron | 55.8 | 53.6 | 61.8 | 68.0 | 73.2 | 80.2 | 83.0 | ..... | ..... | 71.8 | 69.8 | 53.0 | ..... | ..... 24 | Feb. 16 | Oct. 25 |
| *Cheneyville | 53.0 | 53.0 | 60.7 | 66.8 | 72.6 | 81.5 | 84.0 | 82.8 | 77.0 | 66.8 | 63.6 | 47.0 | 67.4 | 105 22 | Feb. 25 | Oct. 25 |
| *Clinton | 55.4 | 55.8 | 62.3 | 67.0 | 71.8 | 78.4 | 80.8 | 81.0 | 76.0 | 68.4 | 64.5 | 47.5 | 67.4 | 98 21 | Mar. 16 | Nov. 18 |
| Collinston | ..... | ..... | ..... | ..... | ..... | 80.1 | 83.9 | 84.2 | 76.8 | 65.6 | 62.1 | 41.8 | ..... | 107 13 | ..... | Oct. 24 |
| *Covington | 56.3 | 53.4 | 61.8 | 67.8 | 73.3 | 79.8 | 83.0 | 82.6 | 78.0 | 68.5 | 63.0 | 47.5 | 67.9 | 105 21 | Feb. 25 | Nov. 19 |
| Dodson | 52.9 | 54.2 | 60.8 | 65.2 | 70.4 | 79.5 | 83.8 | 83.8 | 77.6 | 66.7 | 63.8 | 43.7 | 66.9 | 111 17 | Feb. 25 | Nov. 19 |
| *Donaldsonville | 57.2 | 56.8 | 62.0 | 67.1 | 73.8 | 79.9 | 83.2 | 82.2 | 78.7 | 71.7 | 66.3 | 49.3 | 69.0 | 100 26 | Feb. 2 | Nov. 18 |
| Farmerville | 47.2 | 50.8 | 55.2 | 61.4 | 70.2 | 76.0 | 83.0 | 84.0 | 72.0 | 64.7 | 61.2 | 37.2 | 63.6 | 108 14 | Apr. 14 | Nov. 18 |
| Ferriday | 55.8 | 54.4 | 60.5 | 65.7 | 70.1 | 78.7 | 82.1 | 82.0 | 75.2 | 65.8 | 62.8 | 45.0 | 66.5 | 102 17 | Mar. 16 | Oct. 25 |
| *Franklin | 58.2 | 55.6 | 63.8 | 68.8 | 74.7 | 80.8 | 83.9 | 83.6 | 79.4 | 70.6 | 65.8 | 49.6 | 69.6 | 102 25 | Feb. 17 | Dec. 13 |
| *Grand Cane | 49.4 | 52.8 | 56.6 | 64.8 | 70.9 | 80.0 | 84.2 | 84.2 | 77.2 | 66.5 | 63.4 | 41.8 | 66.0 | 110 18 | Mar. 9 | Nov. 19 |
| Grand Coteau | 57.1 | ..... | 63.0 | 68.1 | 73.6 | 80.2 | 83.4 | 83.2 | 77.8 | 70.2 | 66.4 | 48.7 | ..... | 101 23 | Jan. 31 | Nov. 19 |
| Hammond | ..... | ..... | ..... | 67.6 | 72.3 | 79.6 | 82.6 | 82.5 | 77.6 | 68.4 | 64.3 | 48.5 | ..... | 103 19 | Apr. 14 | Nov. 18 |
| Houma | 56.9 | 55.4 | 64.0 | 68.6 | 74.0 | 80.3 | 83.0 | ..... | 81.6 | ..... | ..... | ..... | ..... | ..... | Feb. 3 | ..... |
| *Jennings | 56.0 | 54.5 | 62.1 | 67.8 | 73.6 | 80.7 | 84.1 | 82.7 | 78.0 | 69.7 | 65.6 | 47.4 | 68.5 | 102 25 | Feb. 17 | Dec. 9 |
| *Lafayette | 56.4 | 54.9 | 62.6 | 67.4 | 73.0 | 79.4 | 82.2 | 81.6 | 77.0 | 69.1 | 64.6 | 47.1 | 67.9 | 98 23 | Feb. 25 | Nov. 19 |
| *Lake Charles | 55.6 | 53.2 | 60.0 | 65.4 | 71.9 | 80.2 | 81.8 | 81.2 | 77.2 | 68.6 | 63.0 | 47.3 | 67.1 | 103 21 | Feb. 16 | Nov. 19 |
| Lakeside | 57.2 | 58.4 | ..... | ..... | 75.2 | 81.2 | 83.5 | 82.6 | 79.0 | 70.5 | 67.2 | 49.2 | ..... | 95 21 | Feb. 14 | Dec. 9 |
| Lawrence | 57.4 | 55.4 | 62.2 | 68.9 | 74.6 | 81.4 | 83.8 | 82.6 | 78.2 | 70.3 | 66.2 | 50.1 | 69.3 | 103 25 | Feb. 1 | Dec. 13 |
| Liberty Hill | 53.0 | 54.0 | 60.1 | 65.8 | 71.8 | 82.0 | 87.7 | 86.0 | 81.4 | 69.6 | 65.1 | 43.4 | 68.3 | 112 14 | Apr. 9 | Oct. 25 |
| *Melville | 55.4 | 54.8 | 61.6 | 66.8 | 72.0 | 79.2 | 82.6 | 82.4 | 77.2 | 67.2 | 62.9 | 46.0 | 67.3 | 100 22 | Mar. 16 | Nov. 18 |
| *Minden | 49.2 | 50.2 | 57.0 | 62.6 | 68.4 | 78.8 | 83.8 | 83.0 | 76.4 | 65.7 | 62.0 | 38.8 | 64.7 | 112 10 | Mar. 16 | Nov. 17 |
| *Monroe | 50.8 | 51.5 | 58.8 | 63.4 | ..... | 78.4 | 82.7 | 83.0 | 75.6 | 67.3 | 63.6 | 42.0 | ..... | 105 19 | Apr. 9 | Nov. 19 |
| Newellton | 52.4 | 55.0 | 60.2 | 65.8 | 70.4 | 79.4 | 82.7 | 81.6 | 74.7 | 64.5 | 61.1 | 43.2 | 65.9 | 100 18 | Apr. 14 | Oct. 25 |
| New Iberia | 58.2 | 56.2 | 65.0 | 69.3 | 75.2 | 80.8 | 84.5 | 82.4 | 77.8 | 70.0 | ..... | 49.8 | ..... | 100 25 | Feb. 17 | Dec. 9 |
| *New Orleans (1) | 58.4 | 57.1 | 65.2 | 69.0 | 73.9 | 80.9 | 83.2 | 83.0 | 79.4 | 72.4 | 67.4 | 50.4 | 70.0 | 100 26 | Feb. 17 | Dec. 21 |
| New Orleans (2) | 57.8 | 56.9 | 64.6 | 68.4 | 74.0 | 80.6 | 83.0 | 83.4 | 80.4 | 71.2 | 66.8 | 52.0 | 69.9 | 98 26 | Feb. 1 | Dec. 13 |
| *Opelousas | 56.6 | 54.8 | 62.0 | 68.0 | 73.9 | 82.0 | 84.0 | 83.2 | 78.1 | 68.6 | 65.6 | 46.6 | 68.6 | 103 22 | Feb. 1 | Nov. 18 |
| Plain Dealing | 51.0 | 52.7 | 58.3 | 63.8 | 70.8 | 79.4 | 84.5 | 83.8 | 77.8 | 67.6 | 62.3 | 41.2 | 66.1 | 110 10 | Apr. 9 | Oct. 25 |
| Rayne | 56.2 | 56.8 | 63.4 | 68.4 | 74.2 | 81.3 | 83.9 | 82.8 | 78.2 | 70.4 | 65.2 | 48.2 | 69.1 | 100 24 | Feb. 17 | Nov. 19 |
| Reserve | 54.4 | 50.0 | 58.8 | 62.8 | ..... | 76.4 | ..... | ..... | 72.9 | 65.2 | 59.0 | ..... | ..... | ..... | Mar. 15 | Nov. 19 |
| *Robeline | 53.0 | 52.9 | 61.0 | 66.2 | 69.6 | 79.5 | 84.6 | 83.2 | 76.4 | 65.2 | 61.2 | ..... | ..... | 110 ..... | Feb. 2 | Oct. 25 |
| Ruston | 50.2 | 50.6 | 59.4 | 63.2 | 70.7 | 81.1 | 85.2 | 83.4 | 77.6 | 67.4 | 63.0 | 43.2 | 66.2 | 107 16 | Mar. 15 | Dec. 8 |
| *Schriever | 58.4 | 57.8 | 63.8 | 69.0 | 74.8 | 79.8 | 84.0 | 83.5 | 79.7 | 71.6 | 67.8 | ..... | ..... | 105 23 | Feb. 17 | Nov. 19 |
| *Shreveport | 51.6 | 53.2 | 58.8 | 64.4 | 71.0 | 80.3 | 84.4 | 83.9 | 77.1 | 68.0 | 62.8 | 42.2 | 66.5 | 110 20 | Feb. 17 | Nov. 18 |
| St. Francisville | 53.8 | 54.8 | 60.1 | 66.7 | 72.7 | 80.5 | 82.2 | 81.4 | 80.8 | 65.6 | 58.4 | 44.4 | 66.8 | 100 22 | Feb. 1 | Dec. 9 |
| Sugartown | 56.4 | 55.0 | 62.6 | 67.2 | 73.4 | 80.1 | 84.1 | 82.5 | 77.6 | ..... | 62.0 | 48.4 | ..... | 101 23 | Jan. 31 | Nov. 18 |
| Tallulah | ..... | ..... | ..... | ..... | ..... | 79.6 | 83.5 | 81.6 | 76.5 | 63.8 | 63.0 | 41.4 | ..... | 101 12 | ..... | Oct. 25 |
| *Maine.* | | | | | | | | | | | | | | | | |
| Bar Harbor | 23.8 | 24.2 | 32.0 | 40.4 | 50.7 | 61.6 | 65.0 | 64.8 | 58.2 | 50.6 | 41.4 | 26.6 | 44.9 | 92 — 9 | Apr. 30 | Oct. 20 |
| Cornish | 21.0 | 22.8 | 29.6 | 42.2 | 52.2 | 65.6 | 67.0 | 66.6 | 59.4 | 47.6 | 39.8 | 25.6 | 45.0 | 94 —19 | May 1 | Oct. 18 |
| *Eastport | 21.6 | 22.0 | 30.3 | 37.8 | 48.8 | 57.5 | 60.1 | 60.2 | 56.0 | 49.0 | 40.2 | 25.8 | 42.4 | 86 — 6 | Apr. 30 | Oct. 21 |
| Fairfield | 18.4 | 20.5 | 28.5 | 41.0 | 53.0 | 65.2 | 67.2 | 66.4 | 59.2 | 48.4 | ..... | 25.0 | ..... | 94 —17 | May 2 | Oct. 21 |
| Farmington | 16.5 | 19.0 | 27.5 | 39.6 | 51.8 | 62.7 | 65.2 | 64.8 | 57.8 | 47.4 | 37.6 | 23.6 | 42.8 | 96 —22 | Apr. 30 | Sept. 20 |
| Gardiner | 20.7 | 22.6 | 30.4 | 42.4 | 52.8 | 64.7 | 66.0 | 65.9 | 59.6 | 49.2 | 40.2 | 25.9 | 45.0 | 97 —22 | May 1 | Sept. 18 |
| *Greenville | 13.0 | 14.7 | 23.7 | 33.8 | 46.6 | 59.4 | 61.7 | 60.6 | 54.2 | 44.2 | 34.3 | 19.0 | 38.8 | 89 —21 | June 9 | Aug. 31 |
| Houlton | 12.0 | 15.4 | 24.6 | 35.9 | 52.2 | 61.9 | 66.6 | 64.2 | 53.6 | 47.7 | 36.0 | 20.4 | 40.9 | 90 —26 | June 9 | Sept. 18 |
| Lewiston | 18.8 | 21.8 | 28.0 | 40.2 | 51.2 | 63.7 | 65.0 | 64.8 | 57.8 | 47.6 | 37.0 | 23.0 | 43.2 | 94 —19 | May 1 | Oct. 17 |
| Madison | 13.5 | 16.2 | 25.4 | 38.2 | 50.2 | 63.3 | 65.0 | 66.0 | 57.4 | 45.8 | 35.3 | 21.6 | 41.5 | 95 —27 | May 5 | Oct. 21 |
| *Millinocket | 16.0 | 17.4 | 27.1 | 38.6 | 51.8 | 64.2 | 66.6 | 66.0 | 58.4 | 49.4 | 37.1 | 23.3 | 43.0 | 97 —24 | June 2 | Sept. 8 |
| North Bridgton | 21.3 | 22.6 | 30.3 | 41.6 | 53.0 | 65.4 | 67.3 | 67.6 | 60.2 | 49.2 | 40.0 | 28.2 | 45.3 | 99 —16 | May 1 | Oct. 20 |
| Orono | 19.2 | 20.8 | 28.7 | 40.4 | 52.0 | 63.2 | 66.6 | 66.2 | 59.2 | 49.3 | 39.1 | 23.6 | 44.0 | 97 —24 | June 2 | Aug. 31 |
| *Portland | 23.0 | 25.2 | 31.6 | 40.8 | 51.4 | 65.0 | 66.4 | 66.2 | 58.8 | 49.6 | 40.9 | 27.2 | 45.5 | 94 — 4 | May 1 | Oct. 20 |
| Rumford Falls | 16.4 | 21.0 | 28.2 | 38.6 | 51.3 | 64.4 | 65.8 | 64.8 | 57.7 | 47.4 | 36.8 | 23.8 | 43.0 | 92 —18 | May 1 | Oct. 20 |
| Winslow | 17.4 | 20.3 | 28.2 | 41.2 | 52.3 | 63.5 | 66.3 | 65.8 | 58.8 | 47.6 | 38.0 | 23.2 | 43.6 | 96 —21 | June 2 | Aug. 31 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Maryland.* | | | | | | | | | | | | | | | | | |
| Annapolis | 35.3 | 41.0 | 41.4 | 54.0 | 62.8 | 73.5 | 75.1 | 74.4 | 68.6 | 53.8 | 50.9 | 32.5 | 55.3 | 95 | 9 | Apr. 11 | Oct. 13 |
| Bachman's Valley | 31.6 | 39.1 | 37.9 | 50.4 | 60.8 | 70.6 | 71.8 | 69.4 | 64.0 | 50.0 | 46.6 | ..... | ..... | 95 | ..... | May 3 | Oct. 14 |
| *Baltimore | 35.6 | 42.6 | 41.8 | 53.9 | 64.5 | 74.1 | 76.0 | 74.4 | 67.7 | 54.8 | 51.5 | 33.2 | 55.8 | 98 | 9 | Apr. 11 | Dec. 7 |
| Cambridge | 39.2 | 45.1 | 44.5 | 56.2 | 66.2 | 75.4 | 76.2 | 74.8 | 69.2 | 56.2 | 51.4 | 34.2 | 57.4 | 98 | 10 | Apr. 12 | Nov. 19 |
| Cheltenham | 37.4 | [a]45.0 | 42.6 | 55.0 | 64.6 | [a]73.3 | 73.9 | 72.6 | 66.0 | 52.6 | 51.0 | 32.1 | 55.5 | 96 | 6 | Apr. 12 | Oct. 14 |
| Chestertown | 35.6 | 43.2 | 40.8 | 53.6 | 63.3 | 72.3 | 73.6 | 72.0 | 66.5 | 53.1 | 49.2 | 32.2 | 54.6 | 92 | 9 | Apr. 12 | Oct. 20 |
| Chewsville | 32.8 | 40.0 | 38.4 | 50.8 | 60.4 | 71.0 | 72.4 | 71.0 | 63.3 | 49.9 | 48.4 | 28.8 | 52.3 | 97 | 2 | May 12 | Oct. 13 |
| Clear Spring | 30.9 | 38.2 | 37.6 | 49.6 | 60.2 | 69.6 | 72.2 | 70.2 | 64.8 | 50.4 | 47.5 | 28.4 | 51.6 | 97 | 3 | Apr. 12 | Oct. 20 |
| Coleman | 34.8 | 43.6 | 41.4 | 53.7 | [a]63.8 | 74.2 | 75.4 | 74.4 | 68.0 | 55.0 | 49.6 | 32.4 | 55.5 | 99 | 8 | Apr. 12 | Oct. 13 |
| College Pk. (Ex. Sta) | 35.5 | [a]42.4 | [b]41.6 | 53.6 | 62.8 | [b]73.0 | 73.6 | 72.2 | ..... | ..... | 49.8 | 31.2 | ..... | 98 | 5 | May 12 | ..... |
| Darlington | 32.6 | 39.8 | [b]38.4 | [b]51.6 | [a]62.8 | 71.1 | 72.3 | 70.9 | 65.0 | [a]50.6 | 47.2 | 29.1 | 52.6 | 98 | 3 | Apr. 12 | Oct. 13 |
| Deer Park | ..... | 34.6 | 33.4 | 46.2 | 55.8 | 68.0 | 69.8 | ..... | 59.6 | [d]44.0 | 43.5 | 22.3 | ..... | 94 | − 5 | May 13 | Sept. 6 |
| Denton | 36.4 | 43.5 | 41.2 | 53.5 | 62.6 | 72.5 | 72.9 | 71.4 | 66.2 | 53.2 | 48.6 | 30.9 | 54.4 | 96 | 7 | Apr. 12 | Oct. 13 |
| Easton | 37.7 | 43.4 | 42.1 | 53.2 | 62.8 | 71.8 | 72.9 | 71.4 | 65.6 | 53.4 | 49.7 | 32.5 | 54.7 | 91 | 9 | Apr. 12 | Nov. 19 |
| Emmitsburg[1] | 34.4 | 42.4 | 40.9 | 53.1 | 62.8 | ..... | ..... | ..... | ..... | 52.0 | 49.8 | [b]32.3 | ..... | ..... | ..... | Apr. 11 | Oct. 20 |
| Fallston | 33.7 | 39.7 | 38.5 | 51.1 | 60.9 | 70.3 | 71.4 | 71.1 | 65.2 | 51.5 | 48.6 | 30.1 | 52.7 | 96 | 3 | Apr. 12 | Oct. 13 |
| Frederick | 32.8 | 40.9 | 41.0 | 53.0 | 63.1 | 72.6 | 74.6 | 72.6 | 65.5 | 52.1 | 49.8 | 30.8 | 54.1 | 97 | 6 | Apr. 12 | Oct. 20 |
| Frostburg | ..... | 35.2 | 37.0 | 50.2 | 59.0 | 70.4 | 69.4 | 69.9 | ..... | 48.5 | 46.8 | 25.4 | ..... | 95 | − 1 | May 4 | Oct. 14 |
| Grantsville | 31.5 | 35.7 | 33.4 | 48.9 | 55.6 | 65.2 | 64.8 | 65.4 | 57.8 | 45.0 | 45.3 | 23.0 | 47.5 | 87 | − 2 | May 12 | Oct. 2 |
| Great Falls | 35.0 | 42.4 | 41.2 | 52.6 | 62.3 | 71.8 | 73.0 | 71.0 | 64.9 | 51.4 | 49.2 | 30.4 | 53.8 | 99 | 6 | May 3 | Oct. 13 |
| Green Sp'g Furnace | 31.9 | 39.6 | 38.0 | 51.3 | 61.8 | 72.0 | 73.6 | 72.0 | 65.2 | 50.2 | [a]49.4 | 29.6 | 52.9 | 97 | 1 | May 4 | Oct. 13 |
| Keedysville | 32.8 | 40.2 | 40.8 | 52.9 | 63.2 | 72.4 | 73.8 | 72.2 | 66.0 | 51.4 | 49.7 | 30.6 | 53.8 | 98 | − 1 | May 3 | Oct. 13 |
| Laurel | 34.1 | 41.1 | 40.8 | 53.6 | 62.6 | 73.1 | 72.8 | 71.1 | 64.6 | 50.0 | 49.2 | 30.0 | 53.6 | 97 | 5 | May 3 | Oct. 13 |
| Monrovia | 34.4 | 41.8 | 39.8 | 52.2 | 62.2 | 71.7 | 73.4 | 72.2 | 65.2 | 51.5 | 50.6 | 30.3 | 53.8 | 96 | 2 | Apr. 12 | Oct. 20 |
| Oakland | 31.4 | 35.6 | 34.4 | 46.6 | 55.0 | 66.0 | 64.5 | 64.9 | 58.6 | 45.0 | 43.6 | 23.4 | 47.4 | 89 | − 4 | May 12 | Sept. 28 |
| Pocomoke City | 42.4 | 46.6 | 45.0 | 56.1 | 64.8 | 74.8 | 75.9 | 73.6 | 67.4 | [a]55.8 | 52.4 | [b]36.0 | 57.6 | 94 | 13 | Apr. 12 | Oct. 14 |
| Porto Bello | 39.8 | 46.2 | 43.7 | 54.2 | 65.2 | 75.0 | 76.5 | 75.1 | 69.4 | ..... | [b]52.1 | 35.4 | ..... | 96 | 10 | Apr. 11 | Nov. 4 |
| Princess Anne | 39.9 | 43.8 | 43.0 | 54.0 | 62.5 | 72.1 | 72.8 | 71.0 | 65.6 | 52.3 | 50.0 | 32.4 | 55.0 | 93 | 11 | May 3 | Oct. 17 |
| Rockville | 35.3 | 43.3 | [a]41.0 | 53.1 | 62.2 | ..... | 73.2 | 71.2 | 67.2 | 52.2 | 50.6 | 31.5 | ..... | 92 | 4 | Apr. 12 | Oct. 29 |
| Salisbury | 40.4 | 45.0 | 43.6 | 54.8 | 64.0 | 74.0 | 74.4 | 73.4 | 66.8 | 53.7 | ..... | 32.6 | ..... | 97 | 9 | Apr. 12 | Oct. 13 |
| Sanatorium | ..... | ..... | ..... | ..... | 61.2 | 69.2 | 71.4 | 69.8 | 64.1 | 50.8 | 48.6 | 27.2 | ..... | 93 | ..... | Apr. 24 | Oct. 13 |
| Solomons | 37.7 | 43.2 | 43.0 | 53.6 | 64.4 | 73.9 | 76.4 | 74.8 | 68.7 | 56.3 | 51.7 | 34.7 | 56.5 | 94 | 11 | Apr. 11 | Nov. 19 |
| Sudlersville | 36.0 | 42.8 | [b]40.6 | 52.7 | [a]63.1 | 73.0 | 73.8 | 71.0 | 67.2 | 52.5 | 48.8 | 31.0 | 54.4 | 97 | 4 | Apr. 12 | Oct. 17 |
| Takoma Park | 34.0 | 41.6 | 39.8 | 52.0 | 61.6 | 70.4 | 71.8 | 71.6 | 63.4 | 50.8 | 49.8 | 31.0 | 53.2 | 95 | 3 | Apr. 12 | Oct. 20 |
| Taneytown | 32.2 | 40.7 | 38.4 | 50.8 | 60.6 | 70.7 | 72.0 | 70.4 | 64.1 | [c]49.8 | [d]47.8 | 29.0 | 52.2 | 97 | 0 | May 12 | Oct. 14 |
| Towson | 34.3 | 41.2 | 39.8 | 53.1 | 62.1 | 72.2 | 73.5 | 72.1 | 65.6 | 51.2 | 49.6 | 30.6 | 53.8 | 98 | 4 | Apr. 11 | Oct. 13 |
| Westernport | 33.4 | 40.8 | 39.7 | 52.2 | 61.4 | 70.9 | 70.7 | 71.0 | 64.2 | 49.8 | 48.4 | 28.4 | 52.6 | 95 | 3 | Apr. 25 | Oct. 14 |
| Woodstock | 35.0 | 43.4 | 42.0 | 54.4 | 64.4 | ..... | ..... | 72.6 | 65.2 | 51.5 | 48.4 | 32.1 | ..... | ..... | 5 | Apr. 12 | Oct. 13 |
| *Massachusetts.* | | | | | | | | | | | | | | | | | |
| Amherst | 25.4 | 29.4 | 33.2 | 45.0 | 55.8 | 66.0 | 68.8 | 66.8 | 60.8 | 48.7 | 42.0 | 25.6 | 49.0 | 94 | − 8 | May 3 | Oct. 13 |
| Bedford | 26.8 | 29.4 | 34.2 | 46.2 | 54.0 | 65.4 | 67.2 | 65.1 | ..... | 48.8 | 42.7 | 26.6 | ..... | ..... | ..... | ..... | ..... |
| Blue Hill (summit) | 27.2 | 29.4 | 33.0 | 45.0 | 54.0 | 66.0 | 68.7 | 67.4 | 60.2 | 50.0 | 43.2 | 25.7 | 47.5 | 96 | − 2 | Apr. 30 | Oct. 14 |
| *Boston | 30.3 | 32.6 | 36.9 | 47.8 | 55.8 | 69.4 | 71.5 | 69.4 | 62.6 | 52.8 | 46.4 | 30.8 | 50.5 | 95 | 3 | Apr. 29 | Nov. 7 |
| Chestnut Hill | 29.4 | 31.6 | 35.2 | 48.6 | 56.2 | 69.4 | 71.0 | 71.0 | 62.6 | 52.6 | 45.3 | 28.4 | 50.1 | 98 | − 2 | Apr. 27 | Oct. 20 |
| Concord | 26.0 | 28.4 | 33.4 | 45.0 | 53.8 | 65.4 | 67.8 | 65.4 | 59.8 | 48.2 | 41.4 | 26.1 | 46.7 | 93 | −11 | Apr. 29 | Oct. 16 |
| Fall River | 30.0 | 32.6 | 34.6 | 45.0 | 54.2 | 65.8 | 69.2 | 68.4 | 62.2 | 51.6 | 45.4 | 30.0 | 49.1 | 90 | 1 | Apr. 29 | Oct. 20 |
| Fitchburg | 26.5 | 28.4 | 33.0 | 46.0 | 55.2 | 67.2 | 69.3 | 67.4 | 60.8 | 50.0 | 43.0 | 26.6 | 47.8 | 94 | − 5 | May 1 | Oct. 14 |
| Framingham | 29.1 | 31.4 | 34.9 | 47.8 | 56.8 | 68.0 | 70.1 | 68.0 | 61.8 | 50.6 | 44.2 | 27.4 | 49.2 | 95 | − 7 | May 3 | Oct. 20 |
| Lawrence | 26.0 | 28.4 | 33.4 | 45.2 | 54.0 | 67.2 | 69.4 | 67.0 | 61.2 | 49.8 | 42.9 | 26.5 | 47.6 | 95 | −13 | Apr. 29 | Oct. 20 |
| Lowell | 28.2 | 29.9 | 34.8 | 47.5 | 56.8 | 68.9 | 70.5 | 69.4 | 62.6 | 51.6 | 44.0 | 27.2 | 49.3 | 95 | − 9 | Apr. 29 | Oct. 20 |
| Middleboro | 31.3 | 32.8 | 35.4 | 45.3 | 53.6 | 64.6 | 67.0 | 64.6 | 59.4 | 48.4 | 43.2 | 28.0 | 47.8 | 93 | − 1 | May 26 | Oct. 4 |
| Monson | 27.6 | 30.3 | 33.0 | 46.4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 25.1 | ..... | ..... | ..... | Apr. 29 | ..... |
| *Nantucket | 34.8 | 35.4 | 36.7 | 44.2 | 52.7 | 61.4 | 66.9 | 67.0 | 63.2 | 53.8 | 47.2 | 33.2 | 49.7 | 89 | 11 | Apr. 12 | Nov. 18 |
| New Bedford | ..... | 30.8 | ..... | ..... | 55.4 | 67.6 | 71.0 | 70.0 | 63.3 | 53.2 | 47.4 | 30.0 | ..... | 90 | ..... | Apr. 29 | Nov. 7 |
| Plymouth | 32.2 | 31.8 | 35.3 | 45.0 | 53.6 | 65.2 | 67.4 | 65.6 | 60.8 | 49.2 | 45.2 | 28.9 | 48.4 | 90 | ..... | Apr. 29 | Oct. 14 |
| Provincetown | 33.4 | 33.3 | 36.8 | 45.0 | 53.6 | 65.4 | 70.7 | 69.8 | 64.4 | 53.4 | 46.4 | 32.4 | 50.4 | 96 | 9 | Apr. 13 | Nov. 19 |
| Somerset | 31.4 | 31.4 | 36.4 | 47.8 | 59.4 | 70.7 | 74.4 | 71.2 | 65.3 | 51.6 | 45.8 | 28.2 | 51.1 | ..... | ..... | ..... | ..... |
| South Egremont | 24.6 | 27.0 | 28.6 | 41.4 | 54.1 | 63.4 | 65.6 | ..... | 56.4 | 44.0 | 38.8 | 21.2 | ..... | ..... | −14 | May 26 | Oct. 6 |
| Taunton | 29.3 | 31.8 | 35.0 | 45.2 | 54.8 | 65.0 | 67.0 | 65.4 | 60.2 | 48.3 | 42.4 | 26.9 | 47.6 | ..... | ..... | ..... | ..... |
| Turners Falls | 25.2 | 28.3 | 32.7 | 45.0 | 56.0 | 66.4 | 68.8 | 68.9 | 60.6 | 48.1 | 42.2 | 25.6 | 47.3 | 91 | −10 | Apr. 29 | Oct. 14 |
| Westboro | 29.5 | 31.2 | 35.2 | 48.3 | 57.8 | 68.8 | 70.8 | 69.2 | 62.6 | 51.8 | 44.8 | 28.4 | 49.9 | 97 | −11 | Apr. 30 | Oct. 19 |
| Williamstown | 25.0 | 27.6 | 30.2 | 43.8 | 55.0 | 64.6 | 66.8 | 64.8 | 58.9 | 46.5 | 41.0 | 23.3 | 45.6 | 88 | − 9 | Apr. 29 | Oct. 16 |
| Worcester | 26.6 | 29.4 | 33.4 | 45.2 | 55.2 | 67.4 | 70.0 | 68.2 | 61.6 | 50.7 | 43.4 | 26.4 | 48.1 | 93 | − 1 | Apr. 30 | Oct. 20 |
| *Michigan.* | | | | | | | | | | | | | | | | | |
| Adrian | 29.0 | 29.2 | 34.5 | 45.6 | 57.6 | 69.0 | 71.4 | 72.8 | 62.8 | [a]45.2 | 46.0 | 22.0 | 48.8 | 95 | − 6 | May 4 | Oct. 12 |
| Agricultural College | 26.6 | 28.4 | 29.9 | 42.8 | [a]55.8 | [a]66.7 | 70.0 | 70.8 | 60.4 | 46.2 | 44.5 | 23.1 | 47.1 | 93 | −11 | May 4 | Oct. 12 |
| Allegan | 28.5 | ..... | 34.4 | 45.6 | 56.2 | 67.6 | 72.6 | 72.8 | 63.8 | 48.4 | 48.4 | 24.8 | ..... | 94 | ..... | May 2 | Oct. 12 |
| Alma | 25.1 | 26.2 | 30.4 | 41.8 | 55.6 | 65.3 | 69.8 | 70.2 | 59.2 | 44.6 | 41.7 | 23.0 | 46.1 | 94 | −13 | May 10 | Sept. 2 |
| *Alpena | 22.2 | 22.6 | 28.1 | 36.6 | 50.2 | 62.2 | 66.8 | 67.4 | 56.2 | 43.6 | 39.8 | 24.1 | 43.3 | 93 | − 6 | May 11 | Oct. 4 |
| *Ann Arbor | 27.3 | 28.4 | 32.0 | 43.3 | 55.2 | 65.0 | 70.4 | 71.0 | 61.1 | 46.5 | 44.0 | 22.5 | 47.2 | 95 | − 8 | May 4 | Oct. 12 |
| Arbela | 25.5 | 27.4 | 31.7 | 43.2 | 54.6 | 65.6 | 70.4 | 71.2 | 60.4 | 46.4 | 43.0 | 23.2 | 46.9 | 97 | −16 | May 11 | Sept. 28 |
| Ball Mountain | 25.6 | 27.4 | 30.2 | 42.2 | 54.4 | 65.0 | 69.2 | 70.1 | ..... | ..... | ..... | ..... | ..... | 94 | ..... | May 11 | ..... |
| Baraga | ..... | ..... | ..... | 33.2 | [a]46.7 | [a]60.7 | 66.1 | [a]66.4 | [a]56.4 | 46.7 | ..... | [a]22.0 | ..... | 93 | ..... | May 26 | Sept. 1 |
| *Battle Creek | 27.4 | 28.8 | 32.5 | 44.2 | 55.6 | 67.6 | 69.6 | 71.6 | 60.4 | 46.0 | 44.4 | 21.0 | 47.4 | 91 | − 8 | May 4 | Oct. 12 |
| Bay City | 25.0 | 26.2 | 30.4 | 41.8 | 55.2 | 68.7 | 71.6 | 70.6 | 60.6 | 46.3 | 43.8 | ..... | ..... | 95 | − 9 | May 4 | Oct. 12 |
| Benzonia | ..... | ..... | 29.2 | 37.4 | 54.0 | 62.9 | 67.2 | 70.2 | 58.7 | 46.0 | 42.8 | 24.4 | ..... | 94 | ..... | May 11 | Oct. 12 |
| Berlin | 24.9 | [b]26.0 | 30.1 | 41.8 | 53.6 | 64.6 | 68.8 | [a]69.4 | 58.8 | 44.8 | [a]41.2 | 21.8 | 45.6 | 94 | − 9 | May 11 | Sept. 28 |
| Bergland | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 65.8 | 54.8 | 42.6 | 35.4 | 17.8 | ..... | ..... | ..... | ..... | Sept. 1 |
| Big Rapids | 23.3 | 25.0 | 29.0 | 40.1 | 53.2 | 64.2 | 67.8 | 69.8 | 58.6 | 43.8 | 40.4 | 21.7 | 44.7 | 95 | −14 | May 11 | Sept. 2 |
| Blaney | 17.4 | 18.4 | 23.4 | 31.1 | 43.4 | ..... | ..... | 58.5 | 53.8 | 40.4 | 33.8 | 21.8 | ..... | 92 | −19 | ..... | ..... |
| Bloomingdale | 27.4 | 28.2 | 32.2 | 44.2 | 55.9 | 67.2 | 70.0 | [a]71.6 | 60.4 | 48.2 | 47.6 | 22.6 | 48.0 | 92 | − 9 | May 11 | Oct. 12 |
| Cadillac | 22.4 | 22.9 | 26.6 | 38.2 | 54.2 | [a]65.7 | 68.8 | 70.6 | 59.9 | [a]44.4 | [a]40.2 | 21.3 | 44.5 | 95 | − 8 | May 11 | Oct. 12 |
| Calumet | 15.4 | 14.4 | 24.3 | 31.8 | 46.6 | 61.0 | 64.0 | 65.4 | 55.0 | 43.2 | 35.6 | 20.0 | 39.7 | 86 | −13 | May 10 | Oct. 12 |
| Cassopolis | 28.8 | 29.7 | 33.2 | 44.2 | 55.9 | 68.6 | 71.0 | 73.0 | 61.7 | 47.2 | 46.4 | 21.4 | 48.4 | 93 | − 7 | May 2 | Oct. 12 |
| Charlevoix | 22.8 | 23.0 | 28.0 | 38.0 | 49.3 | 63.2 | 67.8 | 68.6 | [b]58.7 | 47.2 | 43.0 | [c]27.0 | 44.7 | 93 | 0 | May 4 | Oct. 12 |

[1] Mount St. Mary's College.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *Michigan*—Contd. | | | | | | | | | | | | | | | | |
| Charlotte | 27.0 | 29.3 | 31.0 | 43.4 | 55.2 | 66.8 | a68.2 | 70.2 | 59.5 | 45.6 | 44.0 | 22.2 | 46.9 | 92 −22 | May 11 | Oct. 2 |
| Chatham | 17.6 | 17.3 | 23.4 | 31.1 | 46.5 | 59.6 | 61.2 | 62.9 | 52.4 | 42.4 | 35.7 | 18.9 | 39.1 | 91 −19 | June 18 | Aug. 30 |
| Cheboygan | a20.0 | 18.1 | 25.6 | 35.4 | 49.3 | 62.4 | 67.5 | 68.4 | 58.0 | 44.4 | 38.5 | 23.0 | 42.6 | 92 − 6 | May 11 | Oct. 4 |
| Clinton | 27.4 | 28.1 | 33.6 | 43.8 | 55.8 | 67.5 | 70.0 | 71.7 | 62.2 | 47.2 | 45.6 | 23.4 | 48.0 | 95 −16 | May 16 | Oct. 12 |
| Coldwater | 29.0 | 30.0 | 34.0 | a45.0 | 56.8 | 68.4 | a70.8 | b72.5 | b61.6 | a47.2 | b47.4 | a21.3 | 48.7 | 92 −10 | May 11 | Oct. 2 |
| Concord | 27.2 | 27.6 | a33.2 | 43.8 | 56.0 | 66.8 | 69.9 | 71.2 | 59.8 | 45.7 | ..... | 23.2 | ..... | 91 −12 | May 4 | Oct. 12 |
| Croton | 26.0 | 27.1 | 31.2 | 41.8 | 54.6 | 65.6 | 69.4 | 70.9 | 60.6 | 46.0 | 43.1 | 23.6 | 46.7 | 95 −11 | May 11 | Sept. 27 |
| Deer Park | 19.4 | 17.0 | 23.2 | 32.6 | 45.7 | 58.1 | 60.2 | 65.2 | 55.3 | 44.9 | 38.6 | 24.0 | 40.4 | 91 − 9 | May 11 | Oct. 14 |
| Detour | ..... | ..... | ..... | ..... | 48.9 | 59.8 | 64.8 | 67.4 | 55.3 | ..... | ..... | ..... | ..... | ..... | May 4 | Oct. 12 |
| Detroit | 28.6 | 29.2 | 32.9 | 43.4 | 55.7 | 67.1 | 71.2 | 71.5 | 61.4 | 47.2 | 44.9 | 23.0 | 48.0 | 92 − 1 | Apr. 26 | Oct. 14 |
| Durand | 27.2 | 28.0 | 31.8 | a43.2 | a56.0 | 68.0 | a71.0 | d71.6 | a60.5 | 46.2 | 45.7 | 23.4 | 47.8 | 96 −13 | May 4 | Oct. 12 |
| Eagle Harbor | ..... | b18.2 | 26.4 | 33.8 | 42.9 | 55.8 | 61.5 | 63.6 | 55.5 | 45.2 | 39.8 | 24.8 | ..... | 89 ..... | May 20 | Oct. 14 |
| East Tawas | 24.8 | 26.0 | b30.6 | 38.2 | c52.6 | 63.4 | 67.3 | 68.2 | 56.8 | 43.8 | 39.8 | 23.9 | 44.6 | 96 − 6 | May 3 | Oct. 12 |
| Eloise | 28.3 | 29.0 | 33.2 | 45.4 | 57.1 | 68.7 | a72.7 | 72.2 | 61.9 | ..... | ..... | ..... | ..... | 96 ..... | May 4 | Sept. 30 |
| *Escanaba | 18.6 | 19.6 | 26.8 | 33.8 | 48.8 | 61.2 | 65.1 | 66.7 | 55.0 | 43.6 | 38.3 | 20.6 | 41.5 | 87 −17 | May 10 | Sept. 27 |
| Ewen | 14.0 | 14.9 | 21.3 | 30.7 | 48.0 | 62.0 | 63.4 | ..... | 53.0 | 42.3 | 35.8 | 17.7 | ..... | −27 | June 8 | Sept. 1 |
| *Flint | 26.9 | 28.2 | 31.0 | 41.0 | 54.4 | 65.2 | 69.5 | 69.8 | c58.4 | 45.6 | 44.0 | 23.5 | 46.5 | 95 − 7 | May 4 | Oct. 12 |
| Frankfort | 26.0 | 26.0 | 30.8 | 38.0 | 50.7 | 61.2 | 65.6 | 68.2 | 58.2 | 47.1 | 42.8 | a26.2 | 45.1 | 88 3 | May 11 | Oct. 27 |
| Ganges | 28.0 | 29.2 | 33.2 | 43.0 | 54.4 | 65.3 | 68.4 | 70.5 | 60.7 | a48.1 | 46.0 | 24.7 | 47.6 | 89 1 | May 4 | Oct. 12 |
| Gaylord | 22.0 | ..... | 26.8 | 37.5 | ..... | ..... | ..... | ..... | ..... | 44.4 | ..... | ..... | ..... | ..... | ..... | ..... |
| Gladwin | 24.4 | 26.0 | 29.5 | 41.0 | 54.6 | 66.4 | 70.0 | 71.8 | 59.2 | f47.4 | 42.5 | 22.7 | 46.3 | 95 −15 | May 11 | Sept. 12 |
| *Grand Haven | 26.7 | 27.1 | 31.6 | 40.8 | 53.0 | 63.8 | 67.0 | 68.9 | 59.1 | 46.6 | 43.4 | 25.0 | 46.1 | 86 1 | May 4 | Oct. 19 |
| Grand Marais | 17.0 | 18.8 | 27.9 | 33.0 | 42.4 | ..... | 56.9 | 61.6 | ..... | 41.5 | 36.0 | ..... | ..... | ..... | May 5 | Oct. 13 |
| *Grand Rapids | 27.4 | 27.5 | 32.1 | 42.8 | 55.7 | 67.1 | 71.1 | 71.7 | 60.6 | 47.2 | 44.4 | 24.0 | 47.6 | 92 − 4 | May 4 | Oct. 19 |
| Grape | 28.5 | 29.8 | 34.4 | 45.6 | 57.0 | e66.2 | 70.9 | 71.3 | 61.8 | 47.3 | 45.7 | 23.0 | 48.5 | 93 − 9 | May 4 | Oct. 15 |
| Grass Lake | 26.0 | 27.3 | 32.0 | 43.6 | 55.6 | 67.4 | 69.4 | 70.9 | 60.9 | 46.4 | 44.4 | 22.2 | 47.2 | 94 −11 | May 4 | Oct. 12 |
| Grayling | 19.8 | 21.4 | ..... | 38.1 | 54.6 | 65.0 | 68.0 | 69.2 | 57.6 | 44.7 | 39.9 | 21.8 | ..... | 93 −13 | May 11 | Oct. 4 |
| Harbor Beach | 26.1 | 26.1 | 29.8 | 40.2 | 50.4 | 60.8 | 65.2 | 67.4 | 58.9 | 45.1 | 42.0 | 25.4 | 44.8 | 95 − 6 | May 4 | Oct. 12 |
| Harrison | 21.6 | 24.2 | 28.7 | 40.3 | 53.2 | 65.4 | 70.0 | 69.6 | 59.4 | 45.8 | 43.1 | 23.6 | 45.4 | 96 −12 | May 11 | Oct. 12 |
| Harrisville | 22.8 | 22.6 | 27.8 | 36.3 | 48.4 | 61.2 | 67.6 | 67.3 | 57.3 | 44.3 | 40.2 | 24.0 | 43.3 | 95 − 7 | May 4 | Oct. 12 |
| Hart | 25.9 | 26.7 | 31.2 | 41.8 | a54.0 | 65.6 | d70.4 | d71.4 | a59.4 | ..... | ..... | 21.3 | ..... | 93 − 5 | May 11 | Sept. 2 |
| Hayes | 25.8 | 24.7 | 29.0 | 39.5 | a53.2 | 64.2 | 69.0 | 69.4 | 61.4 | 46.9 | 41.3 | 26.0 | 45.9 | 96 −13 | May 11 | Oct. 20 |
| Highland | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Hillsdale | 27.4 | 28.8 | 32.8 | 44.1 | 56.0 | 67.0 | 68.8 | 70.4 | 59.8 | 45.8 | 43.8 | 21.4 | 47.2 | 91 − 9 | May 4 | Oct. 12 |
| Holland | 27.2 | 28.2 | 32.6 | 43.6 | 54.9 | 66.5 | 69.1 | 70.8 | 60.3 | 47.0 | 45.0 | 24.4 | 47.5 | 92 −16 | May 4 | Oct. 12 |
| *Houghton | 16.4 | 16.1 | 23.8 | 32.8 | 47.2 | 61.2 | 65.3 | 66.2 | 56.0 | 45.2 | 37.1 | 21.8 | 40.8 | 93 −17 | May 10 | Oct. 20 |
| Howell | ..... | e29.4 | ..... | ..... | 55.6 | 66.6 | 70.0 | 71.7 | 59.6 | a44.8 | d42.3 | b21.3 | ..... | 93 ..... | May 11 | Oct. 3 |
| Humboldt | 15.4 | 19.7 | ..... | ..... | ..... | a59.6 | 60.8 | 63.4 | 50.8 | a40.8 | ..... | ..... | ..... | 90 ..... | ..... | Aug. 21 |
| Iron Mountain | 17.4 | 19.6 | 25.8 | 35.0 | c55.2 | b66.7 | 67.0 | e68.0 | 58.2 | c44.9 | e36.3 | e21.2 | 42.9 | 93 −21 | May 4 | Sept. 26 |
| Iron River | 13.7 | 18.4 | 21.3 | 32.3 | 49.9 | 62.8 | 64.4 | 66.2 | 54.0 | 39.7 | 39.3 | 18.6 | 40.0 | 92 −37 | June 18 | Sept. 1 |
| Ironwood | 14.2 | 15.6 | 24.4 | 32.4 | 49.2 | 63.7 | 65.0 | 67.8 | 56.4 | 43.3 | 35.6 | 16.1 | 40.3 | 88 −30 | May 10 | Sept. 1 |
| Ishpeming | e16.0 | f19.0 | d22.4 | e31.2 | f48.2 | e63.7 | e61.8 | d65.6 | e54.2 | e42.8 | f36.0 | f19.0 | 40.2 | 90 −21 | June 18 | Sept. 17 |
| Isle Royale | ..... | ..... | ..... | ..... | 41.6 | 48.6 | 54.2 | 59.5 | 54.0 | 44.0 | 37.4 | ..... | ..... | 77 ..... | May 10 | Oct. 23 |
| Ivan | 20.0 | 21.7 | 25.2 | 36.8 | 52.3 | 64.0 | 67.6 | 69.4 | 57.1 | 43.2 | 38.4 | 20.7 | 43.1 | 98 −16 | May 10 | Oct. 5 |
| *Jackson | 29.0 | 29.8 | 33.9 | 45.4 | 58.2 | 69.4 | 72.3 | 72.0 | 62.4 | ..... | ..... | ..... | ..... | 95 ..... | May 4 | ..... |
| Jeddo | 25.8 | 26.2 | 29.6 | 40.8 | 53.4 | 64.7 | 70.0 | 70.3 | 60.5 | 46.2 | 42.9 | 23.0 | 46.1 | 96 − 5 | May 11 | Oct. 13 |
| Kalamazoo | 27.0 | 28.4 | 32.2 | 44.2 | c56.8 | 67.6 | c69.8 | e70.3 | 60.6 | 47.8 | 45.2 | 21.0 | 47.6 | 94 − 2 | May 4 | Oct. 13 |
| Lansing | 27.4 | 28.2 | 31.9 | 43.6 | 56.1 | 67.2 | 70.3 | 71.2 | 60.6 | 46.2 | 44.5 | 22.6 | 47.5 | 93 − 8 | May 4 | Oct. 12 |
| Lapeer | 26.8 | 27.2 | 30.1 | 42.6 | 55.2 | 67.4 | 71.6 | 71.0 | 60.0 | 46.4 | 43.0 | 22.6 | 47.0 | 95 − 8 | May 11 | Oct. 12 |
| Ludington | e26.1 | a28.2 | a31.0 | e39.8 | a54.4 | d65.2 | e68.0 | e68.6 | e59.8 | ..... | e41.7 | e26.6 | ..... | 88 − 9 | May 10 | ..... |
| Mackinac Island | 20.4 | 18.5 | 25.0 | 34.0 | 47.2 | 58.8 | 64.6 | 68.0 | 56.0 | 44.4 | ..... | e29.1 | ..... | 86 −11 | May 11 | Oct. 14 |
| Mackinaw | 21.5 | 19.8 | 24.3 | 34.0 | 48.0 | 60.4 | 66.3 | 67.8 | 57.6 | 45.0 | 40.8 | 26.2 | 42.6 | 93 − 8 | May 11 | Oct. 12 |
| Mancelona | 20.4 | 21.0 | 25.6 | 36.5 | 52.2 | 64.2 | 65.9 | 67.5 | 55.0 | 42.0 | 37.6 | 21.5 | 42.4 | 94 −16 | May 11 | Sept. 27 |
| Manistee | 24.7 | 25.8 | 30.5 | 39.8 | 53.2 | 63.2 | 68.0 | 70.4 | 59.6 | 46.2 | 43.3 | 25.8 | 45.9 | 91 0 | May 11 | Oct. 2 |
| Maple Ridge | 16.4 | 16.6 | 23.8 | 32.6 | 48.7 | 61.4 | 62.9 | 64.5 | 53.0 | 42.0 | 36.1 | 18.7 | 39.7 | 90 −23 | May 11 | Aug. 30 |
| *Marquette | 18.8 | 18.6 | 26.2 | 33.0 | 46.3 | 59.8 | 65.0 | 65.8 | 55.8 | 45.2 | 38.4 | 21.8 | 41.2 | 92 −15 | May 4 | Oct. 15 |
| Menominee | 19.4 | 21.6 | 28.2 | 33.7 | 47.0 | 63.4 | 67.5 | a69.0 | 57.0 | a44.3 | 40.2 | 19.7 | 42.6 | 94 −21 | May 10 | Sept. 27 |
| Midland | 25.8 | a27.0 | 32.7 | b42.1 | c58.6 | ..... | 70.3 | d70.7 | 62.3 | 48.1 | 44.3 | 26.2 | ..... | 96 −15 | May 7 | Oct. 12 |
| Montague | 25.2 | 26.6 | 30.0 | 40.8 | 52.2 | 64.0 | 65.9 | d68.4 | a58.9 | 46.3 | 43.7 | d23.5 | 45.5 | 86 − 4 | May 3 | Sept. 2 |
| Morenci | 28.6 | 30.0 | 34.6 | 45.4 | 56.4 | 67.4 | 69.4 | 70.6 | 61.2 | 47.2 | 46.4 | 23.0 | 48.4 | 91 −13 | May 4 | Oct. 1 |
| Mount Clemens | 25.0 | 27.8 | 32.4 | 43.3 | 52.4 | 65.5 | 68.0 | 70.2 | 60.6 | 46.2 | ..... | 22.9 | ..... | 95 −10 | May 16 | Oct. 13 |
| Mount Pleasant | 24.1 | 27.9 | 28.8 | 40.2 | 54.8 | a65.7 | 67.4 | 72.6 | 60.2 | 47.4 | 42.3 | 23.5 | 46.2 | 98 −13 | May 5 | Sept. 27 |
| Muskegeon | 26.5 | 27.4 | 30.6 | 41.6 | 53.6 | 65.7 | 68.4 | 69.6 | 58.7 | 45.4 | 44.0 | 23.7 | 46.3 | 88 − 4 | May 4 | Oct. 6 |
| Newberry | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 51.6 | 44.1 | 38.7 | a22.2 | ..... | ..... | May 27 | Oct. 12 |
| Old Mission | 23.7 | b23.4 | 27.9 | 37.2 | 51.8 | 63.8 | 68.8 | 70.2 | e59.7 | 47.2 | a43.0 | 25.7 | 45.2 | 93 − 2 | May 11 | ..... |
| Olivet | 27.3 | ..... | 30.6 | 42.4 | 55.0 | 66.2 | 69.4 | 69.6 | 58.0 | 44.3 | 43.0 | 21.5 | ..... | 88 ..... | May 4 | Oct. 12 |
| Omer | a20.1 | a23.2 | b28.0 | e39.0 | 51.7 | f63.8 | 68.2 | 70.5 | 57.6 | 47.0 | 44.4 | ..... | ..... | 96 ..... | May 11 | Oct. 5 |
| Onaway | 21.6 | 21.8 | 26.8 | 37.1 | 52.4 | ..... | 68.0 | 69.4 | ..... | ..... | 38.8 | 22.0 | ..... | − 4 | May 11 | ..... |
| *Ovid | ..... | ..... | ..... | 42.3 | 55.6 | 66.6 | 69.9 | 71.2 | 60.2 | ..... | ..... | ..... | ..... | 98 ..... | May 11 | Oct. 2 |
| Owosso | 26.8 | 27.5 | 31.5 | 42.7 | 55.8 | 67.2 | 70.5 | 71.6 | 60.8 | b46.6 | 44.8 | 23.8 | 47.5 | 95 −19 | May 4 | Oct. 4 |
| Petoskey | 22.6 | 21.6 | 27.0 | 36.2 | 47.8 | 61.0 | 66.0 | 68.3 | 58.4 | 48.8 | ..... | 25.8 | ..... | 93 − 3 | May 11 | Oct. 14 |
| Plymouth | 28.4 | 28.8 | e30.7 | ..... | ..... | ..... | d72.2 | 71.2 | 60.0 | c44.6 | 43.6 | e24.0 | ..... | 98 −10 | ..... | Sept. 2 |
| Pontiac | a28.9 | 28.4 | 32.4 | 44.0 | 56.0 | ..... | 70.4 | 71.0 | 60.8 | 46.8 | 43.6 | 23.0 | ..... | 95 − 6 | May 4 | Oct. 19 |
| Port Austin | 25.0 | a25.3 | b29.4 | 39.2 | a51.1 | a62.4 | e68.6 | b68.4 | b59.6 | a45.2 | 43.9 | 25.1 | 45.3 | 94 − 8 | May 4 | Oct. 12 |
| *Port Huron | 27.1 | 27.8 | 30.6 | 41.4 | 53.3 | 64.6 | 68.2 | 69.4 | 59.8 | 45.9 | 43.2 | 23.6 | 46.2 | 94 − 2 | May 11 | Sept. 28 |
| Powers | 16.4 | 17.6 | 25.6 | 32.2 | 46.5 | 62.6 | 67.0 | 67.0 | 56.6 | 44.0 | 37.6 | 19.7 | 41.4 | 96 −26 | May 11 | Sept. 25 |
| Reed City | ..... | 23.7 | 28.4 | 37.9 | ..... | ..... | 67.5 | 70.2 | 57.1 | 43.1 | ..... | 21.4 | ..... | 88 ..... | ..... | Sept. 25 |
| Roscommon | 18.3 | 21.9 | 24.4 | 35.4 | b51.1 | e61.8 | d62.0 | b66.4 | a55.6 | d43.0 | a37.6 | d21.0 | 41.5 | 96 −15 | May 11 | Aug. 21 |
| Saginaw | 27.0 | 27.4 | 31.6 | 42.6 | 56.3 | 67.4 | 66.6 | 72.3 | 61.7 | 47.2 | 44.6 | 24.8 | 47.5 | 95 − 8 | May 4 | Oct. 12 |
| Saginaw (W. S.) | 26.6 | 27.3 | 31.4 | 42.4 | 56.0 | 66.6 | 71.0 | 71.4 | 60.6 | 46.0 | 43.5 | 24.0 | 47.2 | 96 − 9 | May 11 | Oct. 19 |
| St. Ignace | 22.4 | 21.2 | 25.6 | 35.2 | 49.9 | 61.6 | 66.0 | 69.0 | ..... | ..... | 41.0 | 25.8 | ..... | 89 − 7 | May 11 | Oct. 11 |
| St. James | 21.4 | ..... | 26.4 | 34.4 | 50.4 | 63.8 | 68.6 | a70.2 | 59.1 | 44.2 | 44.0 | 24.8 | ..... | 89 ..... | May 11 | Oct. 13 |
| St. Johns | 28.1 | 29.1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| St. Joseph | 28.8 | 30.0 | 34.6 | 44.8 | 54.6 | 66.4 | 70.2 | 72.2 | a62.7 | 49.4 | 47.8 | 25.1 | 48.9 | 91 0 | May 2 | Oct. 20 |
| Sandusky | ..... | ..... | ..... | e41.6 | e53.4 | a64.5 | b68.8 | a69.2 | b60.2 | a44.4 | c42.0 | d23.2 | ..... | 93 ..... | May 12 | Oct. 12 |
| Saranac | 27.5 | 27.6 | 31.6 | 43.3 | 55.4 | 67.1 | 70.4 | 71.4 | 59.8 | 45.4 | 43.8 | 22.6 | 47.2 | 93 −22 | May 11 | Oct. 2 |
| *Sault Ste. Marie | 16.6 | 15.4 | 22.8 | 33.0 | 48.6 | 60.2 | 63.0 | 64.6 | 53.8 | 43.2 | 36.8 | 21.0 | 39.8 | 90 −15 | May 11 | Oct. 12 |
| South Haven | 30.4 | 29.7 | 31.0 | 40.9 | 51.0 | ..... | 64.0 | 66.6 | 58.8 | 48.6 | a44.6 | 24.0 | ..... | 88 − 9 | May 4 | Oct. 11 |
| Stanton | ..... | ..... | a31.4 | ..... | 53.2 | ..... | e72.6 | ..... | ..... | ..... | 43.8 | b25.8 | ..... | ..... | May 17 | ..... |
| Thomaston | e14.2 | 15.5 | 21.6 | 29.8 | 46.7 | 62.0 | 62.8 | 65.6 | 52.8 | 41.2 | 35.4 | 16.2 | 38.6 | 89 −31 | June 14 | Sept. 1 |
| Thornville | 26.8 | 28.6 | 31.0 | 42.0 | 54.8 | 65.0 | 68.2 | 68.9 | 58.9 | 45.5 | 44.0 | 23.9 | 46.5 | 91 −12 | May 11 | Sept. 28 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *Michigan*—Contd. | | | | | | | | | | | | | | | | | |
| Traverse City | 23.1 | 23.6 | f28.8 | 36.1 | ..... | ..... | a68.7 | a70.8 | 63.0 | ..... | 41.6 | ..... | ..... | 98 | ..... | ..... | ..... |
| Vassar | ..... | ..... | c38.6 | ..... | ..... | ..... | ..... | 71.6 | 63.2 | 43.3 | ..... | ..... | ..... | 93 | ..... | May 2 | ..... |
| Victoria | ..... | ..... | ..... | ..... | ..... | ..... | 66.2 | 67.0 | 56.7 | 43.0 | 34.8 | 16.0 | ..... | ..... | ..... | ..... | Oct. 2 |
| Wasepi | 28.2 | 29.2 | 32.9 | 45.0 | 56.3 | 66.7 | 69.3 | 70.9 | 60.6 | 46.6 | 45.7 | 20.8 | 47.7 | 89 | — 7 | May 11 | Oct. 12 |
| Watersmeet | ..... | ..... | 22.0 | 30.6 | 48.4 | 62.8 | 63.1 | 65.8 | 54.2 | 41.6 | 34.4 | 16.8 | ..... | 92 | ..... | June 18 | Sept. 1 |
| Webberville | 27.1 | 28.4 | 32.0 | 43.0 | 56.7 | 67.6 | 70.0 | 71.3 | 60.1 | 45.6 | 43.7 | 22.3 | 47.3 | 93 | —17 | May 4 | Oct. 4 |
| West Branch | ..... | ..... | ..... | ..... | ..... | ..... | ..... | a72.8 | a61.0 | ..... | 38.2 | ..... | ..... | 96 | ..... | ..... | ..... |
| Wetmore | 16.8 | 17.2 | 23.2 | 32.2 | 47.1 | 62.0 | 62.2 | 63.2 | 54.6 | ..... | 38.6 | 23.0 | ..... | 94 | —28 | June 18 | Aug. 30 |
| Whitefish Point | 19.2 | 16.4 | 22.0 | 30.4 | 42.8 | 54.4 | 57.6 | 62.2 | 54.6 | 44.4 | 38.9 | a24.6 | 39.0 | 84 | —10 | May 14 | Oct. 13 |
| Woodlawn | 18.8 | 19.4 | 22.4 | 34.7 | 49.6 | 61.8 | 65.4 | 65.8 | 54.6 | 42.0 | 37.4 | 20.4 | 41.0 | 92 | —20 | May 11 | Sept. 2 |
| Ypsilanti | 27.4 | 28.0 | 32.8 | 44.0 | 55.4 | 66.6 | 69.3 | 70.6 | 60.8 | 46.8 | 44.0 | 22.1 | 47.3 | 95 | —10 | May 4 | Oct. 12 |
| *Minnesota.* | | | | | | | | | | | | | | | | | |
| Albert Lea | 14.8 | 19.0 | 28.0 | 38.6 | a55.6 | 66.6 | f71.5 | 75.0 | a60.4 | 47.0 | 36.6 | b11.6 | 43.7 | 98 | —25 | May 10 | Oct. 13 |
| *Alexandria | 7.6 | 8.9 | 22.8 | 34.4 | 54.0 | 65.9 | 69.8 | 72.6 | 60.8 | 44.6 | 33.4 | 8.0 | 39.5 | 96 | —31 | May 27 | Oct. 11 |
| Angus | 2.0 | c6.0 | 21.7 | ..... | ..... | c63.8 | 67.4 | 67.6 | 58.4 | 43.4 | 27.0 | 3.8 | ..... | 92 | —40 | June 14 | Oct. 11 |
| Bagley | 2.8 | 6.4 | 20.6 | 30.9 | 50.2 | 63.6 | 66.2 | 67.5 | 56.1 | 42.5 | 30.0 | 6.4 | 36.9 | 94 | —44 | May 10 | Sept. 5 |
| Baudette | 0.7 | 3.7 | 21.3 | 30.0 | f48.0 | 64.6 | 66.5 | 66.4 | 55.6 | 42.0 | 28.7 | 6.7 | 36.2 | 97 | —49 | May 17 | Sept. 24 |
| Beardsley | ..... | ..... | ..... | ..... | a56.4 | 65.8 | a69.6 | 73.2 | 61.6 | 45.8 | 33.1 | a8.7 | ..... | 96 | ..... | May 10 | Oct. 11 |
| Beaulieu | a5.3 | a8.2 | b22.4 | 33.2 | 53.0 | a64.0 | 68.4 | f71.8 | d58.5 | c43.8 | b30.8 | 6.6 | 38.8 | 92 | —38 | June 14 | Oct. 12 |
| Bird Island | 11.7 | 15.5 | 27.4 | 38.4 | 55.4 | 66.0 | 70.6 | 73.4 | 60.3 | 44.4 | 35.8 | 11.2 | 42.5 | 92 | —25 | May 10 | Oct. 12 |
| Caledonia | 18.4 | ..... | ..... | 38.8 | b55.6 | 66.4 | 70.7 | 72.5 | 58.2 | b46.6 | 38.4 | 14.5 | ..... | 91 | —26 | May 3 | Oct. 11 |
| *Campbell | ..... | ..... | ..... | a34.8 | ..... | 66.2 | 68.0 | 71.1 | a59.1 | 43.2 | 30.4 | 7.9 | ..... | 95 | ..... | May 10 | Oct. 12 |
| Collegeville | 12.5 | 14.9 | 27.0 | 36.2 | 52.7 | 65.2 | 70.2 | 72.3 | 59.3 | 44.3 | 34.6 | 11.5 | 41.7 | 93 | —31 | May 9 | Oct. 11 |
| *Crookston | 1.9 | 6.6 | 22.8 | 33.2 | 52.4 | 65.0 | 69.2 | 69.2 | 58.4 | 43.4 | 28.4 | 5.8 | 38.0 | 94 | —32 | May 10 | Oct. 11 |
| *Detroit | 3.1 | 7.2 | 21.8 | 31.8 | 52.6 | 63.9 | 68.3 | 69.8 | 58.2 | 41.6 | 28.0 | 5.4 | 37.6 | 98 | —40 | June 14 | Sept. 23 |
| *Duluth | 10.0 | 12.8 | 24.8 | 32.0 | 44.8 | 59.1 | 64.0 | 64.6 | 54.9 | 42.5 | 33.6 | 12.4 | 38.0 | 87 | —34 | May 10 | Oct. 12 |
| Fairmont (near) | c16.8 | 18.8 | 28.4 | 38.6 | 55.2 | 66.0 | 70.4 | 73.8 | 59.8 | 46.5 | 35.6 | 13.0 | 43.6 | 92 | —23 | May 10 | Oct. 11 |
| Faribault | 15.0 | 17.6 | 27.4 | 37.4 | 53.6 | 64.4 | 69.4 | 72.0 | 58.7 | 46.3 | 36.9 | 11.2 | 42.5 | 92 | —27 | May 10 | Oct. 11 |
| Farmington | 15.4 | 17.4 | 28.6 | 38.0 | a54.7 | 66.4 | 71.4 | 73.0 | 59.4 | 46.4 | 37.0 | 11.6 | 43.3 | 95 | —29 | May 9 | Oct. 12 |
| *Fergus Falls | 9.2 | 13.3 | 26.4 | 36.1 | 54.1 | 67.1 | 69.6 | 72.4 | 60.3 | 44.4 | 32.4 | 9.7 | 41.2 | 92 | —30 | May 10 | Oct. 11 |
| Floodwood | a8.4 | b11.2 | 23.7 | b32.8 | m48.0 | 63.6 | ..... | d65.4 | d57.0 | 44.4 | 32.4 | a12.0 | ..... | ..... | —37 | June 6 | Sept. 1 |
| *Fort Ripley | ..... | 10.4 | 25.0 | 33.5 | 52.5 | 64.6 | 68.0 | 70.4 | 57.5 | 43.4 | 32.8 | ..... | ..... | 92 | ..... | May 10 | Sept. 1 |
| Fosston | ..... | ..... | ..... | ..... | ..... | ..... | 67.8 | 67.8 | 57.6 | 42.0 | 28.8 | 4 8 | ..... | 88 | ..... | ..... | Oct. 11 |
| Glencoe | 14.4 | 16.2 | 28.7 | 38.8 | a55.0 | 65.4 | 70.4 | 73.6 | 59.6 | 47.2 | a38.9 | 13.0 | 43.4 | 91 | —26 | May 10 | Oct. 12 |
| *Grand Meadow | 15.8 | 20.2 | 26.9 | 37.9 | 55.5 | 66.5 | 69.8 | 73.8 | 59.8 | 47.1 | 37.2 | 12.1 | 43.6 | 96 | —28 | May 10 | Oct. 11 |
| Halleck | — 1.0 | 4.0 | 18.8 | 34.1 | 53.0 | 63.5 | 67.6 | 67.8 | 58.4 | 42.7 | 26.6 | 2.0 | 36.1 | 93 | —45 | June 14 | Sept. 24 |
| *Halstad | ..... | 6.0 | 22.2 | 34.0 | 53.2 | 64.1 | 68.0 | 68.9 | 58.2 | 44.4 | 26.4 | 5.4 | ..... | 93 | ..... | May 16 | Sept. 15 |
| Hinckley | 12.2 | c15.6 | 28.1 | a35.6 | 52.2 | ..... | e71.8 | b71.8 | d59.8 | a45.8 | 35.4 | 12.2 | ..... | 90 | —32 | May 10 | Sept. 1 |
| International Falls | — 0.4 | 2.5 | 19.9 | 28.2 | 47.6 | 62.4 | 66.4 | 66.1 | 55.2 | c43.2 | 29.0 | ..... | ..... | 92 | —45 | June 14 | Sept. 1 |
| Kelliher | ..... | 8.5 | 22.9 | 29.7 | b51.2 | 63.1 | 67.2 | 66.8 | 57.0 | 42.2 | 29.2 | 7.1 | ..... | 96 | ..... | June 14 | Sept. 24 |
| Lake Crystal | ..... | ..... | ..... | 40.3 | 56.6 | 65.9 | 70.2 | 73.2 | 59.4 | b50.4 | 37.2 | 13.2 | ..... | 91 | ..... | May 10 | Oct. 12 |
| Leech Lake Dam | 4.6 | 8.4 | 21.4 | 29.5 | 49.1 | 62.5 | 66.7 | 66.6 | 56.2 | 42.3 | 30.8 | 7.8 | 37.2 | 89 | —39 | May 17 | Sept. 5 |
| Litchfield | 11.2 | 14.4 | 27.6 | 36.8 | 54.0 | 64.2 | 67.8 | 71.6 | 57.9 | c45.3 | a35.1 | ..... | ..... | 90 | —28 | May 10 | Oct. 11 |
| Little Falls | 11.1 | 12.6 | 26.9 | 35.4 | 53.8 | 66.3 | 71.0 | 72.2 | 60.0 | 45.2 | 33.7 | 10.4 | 41.6 | 93 | —31 | May 10 | Sept. 5 |
| Long Prairie | 9.4 | 11.7 | 25.4 | 35.0 | 53.6 | 65.2 | 69.0 | 71.4 | 58.9 | 44.0 | 34.0 | 10.1 | 40.6 | 97 | —32 | May 10 | Sept. 1 |
| Lynd (No. 2) | 13.2 | 18.0 | 28.8 | 38.2 | 54.6 | 64.2 | 69.2 | 72.8 | 59.6 | 45.6 | 34.4 | ..... | ..... | 94 | —30 | May 10 | Oct. 11 |
| Maple Plain | 12.1 | 16.0 | 28.5 | b38.6 | ..... | ..... | ..... | ..... | ..... | ..... | 36.1 | 11.4 | ..... | ..... | —28 | ..... | ..... |
| Milaca | c12.8 | a14.2 | 27.1 | b35.3 | 52.1 | 63.8 | a67.4 | 69.8 | 57.4 | 44.0 | 34.2 | 9.4 | 40.6 | 90 | —32 | May 10 | Sept. 1 |
| Milan | 10.0 | 12.8 | 28.1 | 36.5 | 54.8 | 65.0 | 68.5 | 71.3 | 59.8 | 44.1 | 32.5 | 8.8 | 41.0 | 93 | —28 | May 10 | Oct. 11 |
| *Minneapolis (W. B.) | 14.5 | 18.0 | 29.2 | 38.5 | 55.6 | 67.4 | 71.6 | 73.8 | 61.0 | 47.8 | 37.6 | 12.5 | 43.9 | 93 | —26 | May 3 | Oct. 12 |
| Minneapolis (No. 1) | 14.2 | 16.5 | 27.9 | 37.2 | 54.5 | 66.0 | 70.7 | 73.1 | 59.0 | 45.5 | 36.1 | 12.2 | 42.7 | 96 | —26 | May 3 | Oct. 12 |
| *Montevideo | 13.0 | 17.0 | 29.0 | 38.9 | 56.2 | 66.9 | 70.2 | 73.9 | 61.6 | 46.6 | 34.4 | 10.6 | 43.2 | 95 | —27 | May 10 | Oct. 12 |
| *Moorhead | 5.3 | 9.8 | 26.0 | 35.2 | 54.0 | 65.2 | 69.0 | 70.8 | 60.0 | 44.4 | 23.9 | 6.6 | 39.2 | 92 | —28 | May 10 | Oct. 12 |
| Mora | 12.8 | 13.4 | 27.6 | 36.0 | 51.6 | 64.0 | 68.0 | 69.8 | 57.2 | 44.2 | b35.1 | 10.7 | 40.9 | 91 | —36 | May 11 | Sept. 1 |
| Morris | 9.6 | 13.7 | 26.8 | 36.8 | 54.8 | 66.8 | 70.2 | 73.1 | 59.8 | 45.2 | 32.5 | 9.8 | 41.6 | 95 | —27 | May 10 | Oct. 11 |
| Mount Iron | c 4.0 | c10.0 | 28.5 | 32.0 | 49.2 | 63.2 | 66.4 | 66.4 | 54.8 | 42.0 | 31.0 | 10.7 | 38.2 | 90 | —43 | June 14 | Sept. 1 |
| New London | 10.2 | 13.4 | 26.3 | 35.0 | 50.7 | 64.2 | 68.0 | 74.5 | 59.7 | 44.2 | 35.1 | 8.3 | 40.8 | 95 | —28 | May 11 | Oct. 12 |
| New Richland | 15.9 | 19.0 | 28.8 | 38.6 | 55.4 | 66.4 | 71.2 | 74.8 | 60.5 | 46.6 | 36.8 | 12.2 | 43.8 | 95 | —26 | May 3 | Oct. 12 |
| *New Ulm | 15.6 | 18.0 | 30.0 | 39.9 | 56.4 | 67.6 | 72.7 | 75.4 | 60.6 | 46.7 | 34.9 | 10.8 | 44.0 | 95 | —24 | May 10 | Oct. 12 |
| Osakis | 9.2 | 12.4 | 25.5 | 35.5 | 53.3 | 64.7 | 68.4 | 71.5 | 59.2 | 43.8 | 33.8 | 9.5 | 40.6 | 92 | —31 | May 10 | Oct. 11 |
| *Park Rapids | 4.2 | 8.3 | 22.8 | 31.4 | 52.4 | 64.7 | 68.7 | 68.6 | 57.1 | 41.6 | 29.2 | 7.0 | 38.0 | 92 | —36 | May 10 | Oct. 11 |
| Pine River Dam | 6.2 | 8.4 | 23.2 | 31.6 | 50.8 | 65.4 | 68.1 | 69.0 | 58.2 | 43.5 | 32.2 | 9.2 | 38.8 | 88 | —41 | May 11 | Sept. 4 |
| Pipestone | 12.5 | 17.6 | 27.8 | 37.0 | 54.8 | 64.4 | 67.6 | 73.2 | 59.6 | a46.8 | ..... | ..... | ..... | 91 | —29 | May 16 | Oct. 11 |
| Pokegama Falls | 5.8 | 8.4 | 21.9 | 30.9 | 50.1 | 63.4 | 66.4 | 66.6 | 55.6 | 42.0 | 30.8 | 8.6 | 37.5 | 89 | —44 | May 10 | Sept. 1 |
| Red Lake | 4.7 | 6.7 | 21.0 | 31.1 | 49.0 | ..... | 68.2 | 67.4 | 58.0 | 43.2 | 30.0 | 7.2 | ..... | ..... | —37 | May 17 | Sept. 24 |
| *Red Wing (No. 1) | 16.6 | 19.3 | 29.6 | 39.9 | 57.0 | 67.0 | 71.8 | ..... | 61.8 | 47.5 | 38.8 | 13.6 | ..... | ..... | —25 | May 4 | Oct. 11 |
| Redwood Falls | 13.8 | 18.2 | 30.0 | 40.1 | 56.4 | 67.5 | 71.7 | 75.4 | 61.9 | 47.8 | 36.8 | 12.6 | 44.4 | 95 | —26 | May 10 | Oct. 11 |
| *Rochester | ..... | a19.4 | 29.1 | 38.3 | 55.4 | 65.8 | 69.8 | 72.8 | 57.2 | 44.7 | 37.6 | 13.0 | ..... | 97 | ..... | May 10 | Oct. 12 |
| Roseau | — 0.6 | 2.5 | 19.2 | 30.8 | 50.8 | 62.8 | a65.6 | a65.4 | 57.2 | 43.1 | 27.4 | 5.2 | 35.8 | 95 | —48 | June 14 | Sept. 24 |
| St. Charles | 14.0 | 17.8 | 27.4 | 39.2 | 56.0 | 65.7 | 70.2 | 72.6 | 59.0 | 45.2 | 37.3 | 11.5 | 43.0 | 96 | —27 | May 10 | Oct. 12 |
| St. Cloud | 12.2 | 14.8 | 28.4 | 38.1 | a55.3 | 67.1 | 71.1 | 72.3 | 59.4 | 46.4 | 35.2 | 11.3 | 42.6 | 94 | —29 | May 10 | Oct. 12 |
| *St. Paul | 14.4 | 18.2 | 29.0 | 38.6 | 55.8 | 66.8 | 70.8 | 73.2 | 60.6 | 47.0 | 37.6 | 12.2 | 43.7 | 92 | —27 | May 3 | Oct. 12 |
| St. Peter | 17.2 | 20.2 | 31.5 | 41.4 | 56.6 | 66.0 | 71.9 | 75.2 | 62.0 | 48.4 | 38.6 | 15.3 | 45.4 | 94 | —25 | May 10 | Oct. 12 |
| Sandy Lake Dam | 8.9 | 11.9 | 24.5 | 33.4 | 49.8 | 64.0 | d67.8 | 67.8 | 56.4 | 43.6 | 34.0 | 11.0 | 39.4 | 87 | —37 | May 10 | Sept. 24 |
| Shakopee | 15.3 | f22.2 | 29.0 | b39.0 | 56.2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | —29 | May 10 | ..... |
| State Sanatorium | 7.4 | a10.6 | 24.1 | 32.8 | 51.3 | b64.8 | 69.2 | a69.9 | 57.6 | 43.0 | 31.4 | 8.6 | 39.2 | 90 | —30 | May 10 | Oct. 12 |
| Stephen's Mine | 5.0 | 8.1 | 22.2 | 29.9 | 46.7 | 61.7 | 64.4 | 66.2 | 53.2 | 40.8 | 30.9 | 10.8 | 36.6 | 91 | —45 | June 14 | Sept. 1 |
| Taylors Falls | 14.6 | 15.8 | 28.6 | 38.1 | 53.9 | 65.8 | 70.2 | 73.0 | 60.2 | 46.8 | 38.7 | 12.8 | 43.2 | 94 | —30 | May 10 | Oct. 11 |
| Two Harbors | 13.8 | 14.9 | 27.5 | 34.5 | 46.0 | 56.6 | 62.6 | 65.2 | 56.2 | 44.1 | 36.0 | 17.6 | 39.6 | 88 | —31 | May 11 | Oct. 11 |
| Wabasha | 17.2 | 20.0 | 29.6 | 40.4 | 57.4 | j66.2 | n71.2 | b74.2 | a61.4 | m50.5 | f39.1 | ..... | ..... | 96 | —27 | May 10 | ..... |
| Warroad | ..... | ..... | ..... | ..... | ..... | ..... | e66.6 | a65.8 | 55.8 | 42.0 | 26.7 | 4.6 | ..... | ..... | ..... | ..... | Sept. 24 |
| West Concord | 15.7 | 18.4 | 26.8 | 38.4 | 54.8 | 65.4 | 69.8 | 72.8 | 59.0 | 46.8 | 36.8 | 11.5 | 43.0 | 94 | —28 | May 11 | Oct. 12 |
| Willow River | 10.7 | 12.8 | 25.0 | 34.2 | 48.0 | ..... | 66.4 | 67.0 | 55.0 | 43.2 | ..... | ..... | ..... | ..... | —35 | May 11 | Sept. 1 |
| Windom | 15.6 | 19.2 | 29.6 | 40.4 | 56.1 | 66.4 | 71.2 | 75.0 | 61.4 | 47.6 | 36.8 | 12.0 | 44.3 | 94 | —25 | May 10 | Oct. 11 |
| *Winnebago | 13.8 | 17.6 | 29.2 | 39.4 | 55.8 | 66.6 | 71.2 | 74.9 | 61.2 | 49.5 | 36.2 | 11.5 | 44.2 | 95 | —22 | May 10 | Oct. 12 |
| Winnibigoshish | 5.9 | 8.8 | 23.5 | 31.3 | 50.4 | 65.4 | 69.2 | 69.5 | 58.2 | 43.4 | 31.8 | 8.6 | 38.8 | 89 | —36 | May 10 | Sept. 24 |
| Winona | 18.2 | 21.2 | 29.8 | 41.4 | 58.5 | 68.8 | 73.6 | 75.8 | 61.4 | 47.8 | 40.1 | 14.8 | 46.0 | 98 | —24 | May 10 | Oct. 12 |
| *Worthington | 13.1 | 16.9 | 28.3 | 36.9 | 54.1 | 65.4 | 68.7 | 72.6 | 58.7 | 45.8 | a32.9 | 10.7 | 42.0 | 90 | —25 | May 10 | Oct. 12 |
| Zumbrota | 16.4 | 18.7 | 27.8 | 38.8 | a54.6 | 65.4 | 70.0 | 73.6 | 59.3 | b46.2 | 38.6 | a12.2 | 43.5 | 95 | —27 | May 10 | Sept 25 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. Mean. | Annual. Extremes. Mar. | Annual. Extremes. Min. | Killing frost. Last in spring. | Killing frost. First in autumn. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Mississippi.* | | | | | | | | | | | | | | | | | |
| *Aberdeen | 46.2 | 49.2 | 54.8 | 63.2 | 67.5 | 78.2 | 81.4 | 81.8 | b74.9 | 61.4 | 60.2 | 38.2 | 63.1 | 102 | 13 | Mar 16 | Oct. 13 |
| Agricultural College | 47.0 | a50.8 | 55.6 | 63.8 | a68.2 | 78.8 | 81.5 | 82.2 | 76.0 | e63.8 | 61.3 | f39.9 | 64.1 | 102 | 12 | Mar 16 | Nov. 18 |
| Anguilla | 50.8 | 54.4 | b58.2 | 65.8 | 70.5 | 79.6 | 84.0 | 82.1 | 75.8 | 64.4 | 61.3 | 41.6 | 65.7 | 106 | 12 | Mar. 16 | Nov. 18 |
| Austin | 46.1 | 50.0 | 54.0 | 62.8 | 66.9 | 78.2 | 81.6 | 81.0 | 73.4 | 61.8 | 60.4 | 37.2 | 62.8 | 101 | 10 | May 2 | Oct. 13 |
| *Batesville | 45.2 | 49.0 | 53.4 | 62.2 | 67.6 | 78.6 | 82.7 | 82.0 | 74.9 | 61.8 | 60.6 | b35.4 | 62.8 | 102 | 10 | Apr. 9 | Oct. 13 |
| Bay St Louis | 56.6 | 54.4 | 63.2 | 67.6 | 73.0 | 79.8 | 82.0 | 82.0 | b78.7 | 70.0 | 64.2 | 48.7 | 68.4 | 96 | 24 | Feb 17 | Dec. 9 |
| Biloxi | 57.8 | 56.2 | 64.6 | 69.0 | 73.9 | 81.7 | 83.4 | 83.0 | a80.0 | 71.7 | 65.9 | a49.4 | 69.7 | 101 | 23 | Feb. 17 | Dec. 9 |
| Booneville | 45.2 | 48.2 | 51.8 | 61.4 | 67.0 | 75.8 | 79.2 | 80.2 | 71.8 | 62.2 | 59.4 | 36.2 | 61.5 | 99 | 11 | May 2 | Oct. 13 |
| *Brookhaven | 52.7 | 51.6 | 58.9 | 65.2 | 70.5 | 78.9 | 82.6 | 82.6 | b77.0 | 66.8 | 61.8 | 42.4 | 65.9 | 104 | 10 | Mar. 17 | Nov. 19 |
| Canton | 51.1 | 52.8 | 58.5 | 65.0 | 69.6 | 78.8 | 82.4 | 82.6 | 76.5 | 66.0 | 62.5 | 42.4 | 65.7 | 102 | 16 | Feb. 17 | Oct. 25 |
| *Clarksdale | 46.2 | 51.5 | d57.4 | 63.3 | 69.0 | 79.6 | 83.0 | 82.0 | 74.7 | b63.2 | 62.0 | ..... | ..... | 102 | ..... | Apr. 9 | Oct. 13 |
| *Columbus | 47.4 | 49.2 | 54.8 | 63.4 | 68.5 | 79.0 | 82.2 | 82.6 | 76.4 | 62.4 | 60.0 | ..... | ..... | 103 | 12 | Mar. 16 | Oct. 13 |
| *Corinth | 42.6 | 45.2 | 51.2 | 59.3 | 66.0 | 77.0 | 80.0 | 81.6 | 72.4 | 60.4 | 59.0 | 34.9 | 60.8 | 100 | 11 | Mar. 16 | Oct. 13 |
| Crystal Springs | 50.7 | 51 4 | a58.2 | 64.6 | 69.7 | 78.2 | 81.8 | 81.9 | 76.1 | b66.1 | 61.6 | 41.9 | 65.2 | 104 | 17 | Mar. 16 | Oct. 25 |
| Duck Hill | ..... | b51.6 | a56.4 | 63.6 | 67.6 | d79.6 | a83.2 | d82.0 | f71.6 | 63.6 | f60.5 | b39.8 | ..... | 105 | ..... | Apr. 14 | Oct. 13 |
| *Edinburg | 49.2 | 50.6 | c56.2 | 62.4 | b67.4 | 77.0 | b81.2 | ..... | b74.4 | 63.6 | a59.3 | 41.6 | ..... | 105 | 13 | Apr. 9 | Oct. 25 |
| Edwards | 52.0 | 52.8 | 60.0 | 64.9 | 71.1 | 78.4 | 82.4 | 82.2 | 76.2 | 66.5 | 63.0 | 43.4 | 66.1 | 102 | 15 | Mar. 16 | Nov. 16 |
| Fayette | ..... | ..... | a61.8 | 66.8 | 70.6 | c78.2 | 82.3 | 81.6 | 76.1 | c66.2 | 63.7 | 43.3 | ..... | 102 | ..... | ..... | Nov. 19 |
| *Greenville | 46.7 | 50.4 | 55.8 | 64.4 | 69.0 | 79.8 | 84.0 | 83.8 | 76.6 | 64.8 | 62.0 | 39.2 | 64.7 | 103 | 15 | Mar. 16 | Oct. 25 |
| *Greenwood | 49.0 | 49.4 | 55.3 | 64.0 | 68.4 | 79.5 | 83.6 | 82.4 | 75.8 | 63.2 | 60.2 | 38.2 | 64.1 | 106 | 15 | Mar. 16 | Oct. 25 |
| *Hattiesburg | 55.2 | c52.6 | a61.4 | 65.0 | 70.4 | 80.2 | 82.4 | 83.4 | 78.0 | 67.6 | 62.3 | 46.7 | 67.1 | 105 | 18 | Feb. 27 | Nov. 19 |
| *Haziehurst | 50.6 | 50.6 | 57.8 | 64.6 | 69.7 | 78.3 | 82.2 | 82.5 | 76.8 | 66.4 | b61.4 | 41.6 | 65.2 | 106 | 16 | Mar. 17 | Nov. 17 |
| *Hernando | 42.4 | 48.0 | 54.2 | 61.3 | 66.4 | 78.2 | 81.9 | 83.0 | 74.0 | 63.4 | 61.4 | 36.7 | 62.6 | 100 | 12 | Apr. 9 | Nov. 18 |
| *Holly Springs | 41.6 | 45.2 | 50.8 | 60.4 | 66.2 | 77.2 | 80.1 | 80.8 | 72.2 | 60.8 | 58.9 | 34.3 | 60.7 | 98 | 10 | Apr. 9 | Oct. 13 |
| *Jackson | 52.2 | 52.4 | 57.8 | ..... | b71.2 | 79.3 | 83.0 | 83.0 | 77.3 | 66.6 | 62.6 | 43.4 | ..... | 105 | 15 | Mar. 16 | Nov. 18 |
| *Kosciusko | 47.8 | 48.8 | 54.6 | 62.6 | 67.4 | 77.2 | 80.4 | 80.2 | 74.5 | 61.8 | 58.8 | 38.4 | 62.7 | 99 | 14 | Mar. 16 | Oct. 13 |
| *Lake | 49.5 | 48.3 | d55.7 | a63.0 | 68.6 | 77.8 | 81.5 | 80.9 | 75.0 | 62.4 | 58.4 | b39.0 | 63.3 | 103 | 9 | Mar. 17 | Oct. 25 |
| Lake Como | 52.3 | 53.8 | b60.2 | d63.9 | 69.0 | 78.7 | 82.4 | 81.2 | ..... | ..... | 59.0 | 44.3 | ..... | ..... | ..... | Feb. 26 | Nov. 18 |
| Laurel | ..... | ..... | 61.0 | 66.4 | a71.9 | 80.2 | a80.6 | 83.0 | 78.8 | 67.2 | 62.8 | 45.8 | ..... | 102 | ..... | Mar. 16 | Oct. 25 |
| Leakesville | 55.4 | a53.4 | c62.3 | a65.8 | a71.8 | b79.8 | j81.8 | e82.8 | b78.0 | ..... | a62.2 | a47.2 | ..... | 102 | 16 | Feb. 26 | Nov. 19 |
| Louisville | 49.6 | 50.8 | 56.5 | 63.4 | 67.6 | 77.2 | 81.2 | 81.9 | 75.7 | 65.2 | 61.7 | 41.8 | 64.4 | 101 | 13 | Mar. 16 | Oct. 25 |
| McNeill | 56.0 | a55.0 | 63.0 | 66.8 | b71.6 | 79.2 | 81.5 | 81.5 | 76.7 | 68.6 | 63.5 | 48.7 | 67.7 | 103 | 20 | Feb. 25 | Nov. 19 |
| *Macon | 47.3 | 49.4 | 55.4 | 63.0 | 68.4 | 78.2 | 82.0 | 82.4 | 76.2 | 62.9 | 58.8 | b39.4 | 63.6 | 102 | 12 | Mar. 16 | Nov. 19 |
| Magnolia | 54.2 | c54.6 | 61.7 | 65.8 | 71.1 | 79.1 | 81.8 | 81.8 | 76.8 | 68.6 | 63.4 | 47.4 | 67.2 | 103 | 18 | Mar. 16 | Nov. 18 |
| *Meridian | 50.8 | 51.6 | 57.4 | 63.2 | 68.4 | 77.8 | 80.8 | 80.8 | 75.2 | 63.8 | 59.8 | 42.0 | 64.3 | 102 | 16 | Mar. 16 | Oct. 15 |
| Monticello | 53.0 | 52.8 | 60.6 | 65.6 | 70.6 | 77.8 | 81.7 | 82.0 | 76.4 | 65.2 | 60.2 | 44.5 | 65.9 | 105 | 14 | Mar. 16 | Oct. 25 |
| *Natchez | 53.2 | b54.4 | 60.7 | 67.4 | 72.2 | 80.4 | 84.9 | 84.6 | 77.8 | 69.5 | 65.6 | 44.6 | 67.9 | 105 | 22 | Mar. 16 | Dec. 9 |
| *Okolona | 45.2 | 47.8 | 53.0 | 62.2 | 67.1 | 78.1 | 81.0 | 82.7 | 75.4 | 62.4 | 59.8 | 36.5 | 62.6 | 103 | 13 | Apr. 9 | Oct. 25 |
| Pascagoula | ..... | 55.1 | d63.8 | 66.7 | 72.3 | 79.6 | 82.0 | 82.0 | b80.4 | d68.8 | 63.0 | 49.6 | ..... | 98 | ..... | Feb. 25 | Dec. 7 |
| Pearlington | 56.4 | 54.9 | a63.6 | 67.5 | 72.2 | 79.4 | 81.4 | 81.6 | 77.6 | 68.5 | 62.6 | 48.2 | 67.8 | 103 | 20 | Feb. 25 | Dec. 9 |
| Pontotoc | 46.0 | 48.9 | 53.5 | 62.2 | 66.4 | 76.8 | 80.2 | 80.5 | c74.9 | 62.0 | 60.2 | 37.4 | 62.4 | 97 | 11 | Apr. 14 | Oct. 13 |
| Porterville | 49.9 | 51.9 | 56.8 | 63.4 | 68.9 | 78.0 | a82.0 | ..... | f74.0 | 65.0 | 60.2 | d42.2 | ..... | ..... | ..... | Mar. 16 | Oct. 25 |
| *Port Gibson | 50.2 | 51.0 | 56.8 | 63.9 | 69.4 | 78.2 | 82.2 | 81.8 | 75.7 | 64.0 | 61.0 | 41.7 | 64.7 | 107 | 16 | Mar. 16 | Oct. 25 |
| Ripley | 44.4 | 47.8 | 53.0 | a61.2 | 65.8 | 76.4 | 78.6 | 79.6 | b73.7 | 62.4 | ..... | ..... | ..... | 98 | ..... | May 2 | Oct. 13 |
| *Rosedale | 47.8 | 51.2 | 56.2 | 63.0 | 67.3 | 79.0 | b83.4 | a82.0 | b75.8 | 62.4 | 59.8 | 37.8 | 63.8 | 103 | 12 | Mar. 15 | Oct. 25 |
| Shoccoe | 52.7 | 52.0 | 57.8 | a64.2 | 68.6 | e76.4 | d81.4 | 80.8 | 74.9 | 66.6 | 61.6 | 42.7 | 65.0 | 104 | 13 | Mar. 16 | Nov. 19 |
| Suffolk | 53.7 | 52.8 | 60.6 | b65.2 | 70.6 | d79.6 | 83.4 | 82.4 | 77.2 | 68.6 | 63.9 | 46.0 | 67.0 | 105 | 17 | Mar. 16 | Nov. 19 |
| Tehula | 50.5 | 52.6 | 59.2 | 66.5 | 69.8 | 79.9 | 83.4 | a82.5 | 75.8 | 65.0 | 61.2 | 41.4 | 65.6 | 102 | 9 | Mar. 15 | Oct. 25 |
| *Tupelo | 44.8 | 47.9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| University | 45.6 | 48.8 | 53.8 | 61.6 | 65.8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Apr. 9 | ..... |
| Utica | 53.6 | 52.6 | 59.4 | 66.0 | b70.6 | a78.6 | 81.8 | 81.8 | 76.4 | b66.4 | f62.6 | 43.4 | 66.1 | 104 | 16 | Mar. 16 | Nov. 18 |
| *Vicksburg | 51.6 | 53.5 | 59.8 | 65.6 | 69.8 | 78.8 | 82.5 | 82.4 | 76.0 | 68.0 | 63.8 | 43.5 | 66.3 | 99 | 20 | Feb. 17 | Nov. 18 |
| Water Valley | 46.8 | 50.0 | 55.0 | 63.1 | 67.6 | 77.5 | 82.3 | 82.4 | 74.7 | 63.8 | 61.4 | 37.4 | 63.5 | 104 | 11 | Apr. 14 | Oct. 13 |
| *Waynesboro | 52.0 | 50.2 | 58.0 | 63.8 | 69.2 | 78.3 | 81.3 | 81.1 | 75.8 | 63.2 | 58.8 | 43.0 | 64.6 | 101 | 15 | Mar. 16 | Nov. 18 |
| Woodville | 53.5 | 53.0 | 61.6 | 66.1 | 70.9 | 78.5 | 82.0 | 81.8 | 76.6 | 69.4 | 65.0 | 46.3 | 67.1 | 103 | 20 | Mar. 16 | Nov. 18 |
| *Yazoo City | 49.8 | 51.5 | 57.2 | 65.0 | 69.7 | 79.2 | 83.6 | 82.4 | 76.2 | 65.2 | 62.2 | 40.8 | 65.2 | 102 | 16 | Mar. 16 | Nov. 18 |
| *Missouri.* | | | | | | | | | | | | | | | | | |
| Amoret[1] | ..... | 38.0 | 43.9 | 55.2 | 63.4 | 72.7 | 74.8 | a77.0 | 71.2 | 57.8 | 54.2 | 24.7 | ..... | 108 | ..... | May 2 | Oct. 11 |
| Appleton City | 32.6 | 38.8 | 45.4 | 55.8 | 64.3 | 74.4 | 78.7 | 80.4 | 72.0 | 59.6 | 55.0 | 26.1 | 56.9 | 107 | —11 | May 2 | Oct. 12 |
| Arthur | 35.5 | 38.8 | 45.2 | 55.6 | 63.7 | 73.1 | 77.4 | 79.2 | 70.6 | 59.6 | 55.5 | 27.6 | 56.8 | 106 | —16 | May 2 | Sept. 28 |
| Avalon | 29.2 | 33.3 | 41.0 | 51.2 | 62.0 | 72.2 | 76.4 | 79.5 | 67.6 | 55.2 | 50.2 | 20.2 | 53.2 | 100 | —10 | May 2 | Oct. 12 |
| Belle | a34.9 | c39.9 | b43.4 | a53.8 | e61.8 | e72.6 | a76.6 | e80.8 | 67.6 | b60.1 | d56.6 | 24.6 | 56.1 | 107 | —17 | May 2 | Oct. 13 |
| Bethany | 28.2 | 32.8 | 39.2 | 49.2 | 61.0 | 70.1 | 74.3 | 77.4 | 63.4 | 54.6 | ..... | b19.9 | ..... | 96 | —10 | May 10 | Oct. 12 |
| Birch Tree | a35.0 | a41.1 | b48.6 | b57.4 | b64.1 | a73.6 | c76.9 | 78.8 | a70.2 | 59.0 | a54.2 | c28.4 | 57.3 | 100 | — 2 | May 2 | Oct. 12 |
| Bolivar | 36.5 | 40.7 | 46.4 | 57.0 | 64.1 | 72.8 | 76.5 | 78.4 | 70.6 | 60.0 | 57.4 | 27.0 | 57.3 | 102 | —16 | May 1 | Sept. 28 |
| *Brunswick | 28.2 | 34.2 | 41.7 | 51.4 | 62.3 | 73.9 | 77.6 | 80.8 | 68.0 | 54.8 | 49.8 | 21.2 | 53.7 | 104 | —19 | May 2 | Oct. 12 |
| Caruthersville | b44.2 | a46.0 | 51.5 | b60.8 | 66.4 | 78.4 | 79.8 | 81.3 | 72.0 | 61.5 | 58.9 | 34.2 | 61.2 | 102 | 9 | Apr. 9 | Oct. 12 |
| Clinton | 33.6 | 38.7 | 45.1 | 56.2 | 65.1 | 74.6 | 79.0 | 80.8 | 71.2 | 58.5 | 54.4 | 25.2 | 56.9 | 105 | —12 | May 1 | Oct. 12 |
| *Columbia | 30.6 | 37.1 | 42.0 | 53.0 | 61.6 | 72.5 | 75.2 | 79.2 | 67.0 | 55.6 | 52.6 | 22.8 | 54.1 | 98 | —11 | May 1 | Oct. 12 |
| Conception | 25.8 | 32.0 | 37.4 | 48.2 | 59.4 | 69.8 | 74.8 | 78.1 | 66.0 | 53.7 | 48.1 | 18.4 | 51.0 | 101 | —12 | May 2 | Oct. 11 |
| Darksville | 30.6 | 34.6 | 41.5 | 53.0 | 61.2 | 71.7 | 75.2 | 79.4 | 66.7 | 54.9 | 52.6 | 21.1 | 53.5 | 98 | —12 | May 2 | Oct. 12 |
| Dean | b38.6 | 43.2 | a49.2 | 57.6 | b64.0 | a72.0 | e80.2 | e81.3 | 72.5 | 60.0 | f57.8 | 30.1 | 58.9 | 110 | —13 | May 2 | Sept. 28 |
| Doniphan | 38.2 | a43.0 | 49.2 | 57.9 | b65.1 | 75.0 | 77.0 | 78.8 | 69.2 | 57.6 | 55.6 | 30.9 | 58.1 | 100 | 3 | May 2 | Oct. 12 |
| Eldorado Springs | 38.4 | 40.8 | 46.6 | 57.2 | 64.3 | 73.3 | 77.7 | 79.0 | 72.2 | 59.9 | a55.7 | 28.4 | 57.8 | 108 | —11 | May 2 | Oct. 12 |
| Fairport | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | May 1 | ..... |
| Farmington | a34.0 | a38.8 | ..... | 54.6 | ..... | ..... | ..... | ..... | b67.6 | 53.6 | b57.1 | 26.8 | ..... | ..... | ..... | Apr. 12 | Oct. 12 |
| Fayette | 29.5 | 35.2 | 42.0 | 51.8 | 60.8 | 71.8 | 75.0 | 79.0 | 65.8 | 54.0 | 50.9 | 22.3 | 53.2 | 98 | — 9 | May 1 | Oct. 12 |
| Fulton | a32.8 | b38.1 | 44.3 | 55.8 | a63.1 | a72.8 | a75.2 | 78.8 | m63.8 | 56.0 | 52.4 | 24.7 | 54.8 | 101 | —19 | May 1 | Oct. 12 |
| Gano | 34.6 | 41.6 | 46.0 | 57.0 | 64.3 | 73.6 | 76.4 | 79.8 | 69.6 | 58.8 | a56.8 | 27.8 | 57.2 | 101 | —14 | Apr. 13 | Oct. 12 |
| Goodland | 34.6 | 39.6 | 45.0 | 54.6 | 61.2 | 72.0 | a74.4 | 76.5 | 66.0 | 55.3 | 54.2 | 26.5 | 55.0 | 102 | —12 | May 2 | Sept. 28 |
| Grant City | 29.4 | 32.4 | 37.8 | 48.4 | 60.6 | 71.0 | 74.8 | 78.0 | 65.4 | 53.4 | 48.0 | 18.2 | 51.2 | 101 | —13 | May 2 | Oct. 12 |
| Greenville | 38.4 | 42.8 | 48.7 | 58.6 | 65.7 | 76.4 | 79.2 | 81.8 | 71.0 | 59.2 | 57.8 | 31.8 | 59.3 | 105 | 0 | May 2 | Oct. 12 |
| *Hannibal | 29.4 | 34.8 | 40.0 | 51.7 | 61.4 | 72.8 | 74.3 | 79.0 | 65.6 | 53.4 | 51.4 | 22.2 | 53.0 | 98 | — 7 | May 1 | Oct. 12 |
| *Harrisonville | 29.6 | 34.2 | 41.6 | 53.2 | 62.4 | 73.8 | 77.8 | 80.2 | 68.3 | 56.2 | 49.7 | 20.4 | 54.0 | 104 | —11 | May 2 | Oct. 12 |
| Houston | 35.5 | 41.0 | 46.2 | 56.3 | 62.0 | 72.0 | 75.0 | 77.6 | 68.7 | 57.5 | 54.7 | 27.2 | 56.1 | 101 | —10 | May 10 | Sept. 28 |
| *Ironton | 33.3 | 40.6 | 45.2 | 55.2 | 62.6 | 74.0 | 76.6 | 78.6 | 67.6 | 55.0 | 54.7 | 27.6 | 55.9 | 105 | —13 | May 2 | Sept. 28 |
| Jackson | 36.6 | 43.5 | 48.1 | 57.9 | 65.2 | 76.7 | 79.0 | 79.8 | 70.5 | 58.5 | 57.7 | 30.8 | 58.7 | 102 | 2 | Apr. 10 | Oct. 12 |
| *Jefferson City | 29.4 | 36.2 | 42.2 | 52.8 | 62.0 | 73.2 | 76.6 | 80.6 | 68.1 | 55.4 | 51.0 | 21.6 | 54.1 | 104 | —11 | May 2 | Oct. 12 |
| Joplin | 39.0 | 43.0 | 49.1 | 58.8 | a66.2 | ..... | ..... | ..... | m68.2 | 62.8 | 57.9 | 30.1 | ..... | ..... | ..... | Apr. 24 | Oct. 12 |
| *Kansas City | 29.5 | 37.0 | 42.4 | 52.6 | 62.9 | 73.4 | 77.8 | 80.5 | 68.8 | 57.3 | 52.0 | 22.2 | 54.7 | 100 | — 6 | May 1 | Oct. 12 |

[1] Values from February to June 24, inclusive, are for Amsterdam, 6½ miles north of Amoret.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *Missouri*—Contd. | | | | | | | | | | | | | | | | | |
| *Kidder | 28.2 | 34.2 | 40.2 | 50.8 | 60.8 | 71.6 | 75.4 | 78.6 | 66.6 | 55.2 | 49.9 | 20.2 | 52.6 | 99 | −10 | May 1 | Oct. 12 |
| Koshkonong | 37.8 | 43.6 | a49.6 | 58.8 | b64.6 | a74.4 | 78.2 | 79.7 | 70.9 | 61.7 | 57.0 | 31.4 | 59.0 | 102 | − 1 | Apr. 10 | Oct. 12 |
| *Lamar | 36.4 | 41.0 | 47.0 | 55.6 | 64.2 | 74.6 | 79.7 | 80.9 | 73.6 | 60.2 | 54.3 | 26.0 | 57.8 | 107 | −13 | May 1 | Sept. 28 |
| Lamonte | 31.4 | 36.2 | 42.6 | 53.7 | 62.4 | 73.2 | 76.8 | 79.3 | 68.4 | 57.3 | 52.9 | 23.6 | 54.8 | 102 | −13 | May 2 | Sept. 28 |
| Lebanon | 36.0 | 40.4 | 45.2 | 56.2 | 63.4 | 72.7 | 75.7 | 79.4 | 70.4 | 59.4 | 55.6 | 26.6 | 56.8 | 98 | − 8 | May 2 | Oct. 12 |
| *Lexington | 29.8 | 35.1 | 42.6 | 53.6 | 62.8 | 73.2 | 77.0 | 79.1 | 67.6 | 57.1 | 48.7 | 21.7 | 54.1 | 100 | − 9 | May 1 | Oct. 12 |
| Liberty | a30.1 | 35.4 | 42.1 | 53.2 | 62.9 | 72.7 | 76.8 | 79.4 | 68.7 | 57.2 | 51.0 | d18.4 | 54.0 | 101 | − 6 | May 1 | Oct. 12 |
| Lockwood | 36.1 | 39.9 | 45.6 | 56.1 | a63.1 | 73.0 | a78.0 | 80.0 | 73.0 | 60.3 | 57.4 | 27.1 | 57.5 | 104 | −10 | May 1 | Oct. 12 |
| Louisiana | 31.0 | 35.4 | 42.1 | 53.0 | 61.5 | 73.6 | 74.8 | 78.2 | 65.9 | 53.1 | 50.4 | 22.2 | 53.4 | 102 | −14 | May 1 | Oct. 11 |
| Marblehill | 36.8 | 41.7 | 46.2 | 56.8 | 64.4 | 75.3 | 77.6 | 80.0 | 69.2 | 57.8 | 55.4 | 28.5 | 57.5 | 106 | 0 | Apr. 24 | Oct. 12 |
| Marshall | a31.1 | a35.9 | a43.5 | a53.2 | b61.4 | ..... | 76.7 | 79.0 | a67.5 | 56.4 | 51.2 | b23.5 | ..... | ..... | ..... | May 2 | Oct. 12 |
| Marshfield | a35.4 | a39.8 | a45.9 | ..... | a61.6 | a73.0 | c77.1 | ..... | ..... | ..... | ..... | 29.4 | ..... | ..... | ..... | May 2 | ..... |
| *Maryville | 23.6 | 28.8 | 36.3 | 47.3 | 60.6 | 71.4 | 75.3 | 78.0 | 65.2 | 52.1 | 44.8 | 16.2 | 50.0 | 100 | −12 | May 10 | Oct. 12 |
| *Mexico | 28.4 | 34.0 | 40.5 | 51.6 | 61.0 | 73.4 | 75.2 | 79.4 | 66.2 | 54.0 | 51.2 | 21.2 | 53.0 | 101 | −10 | May 2 | Oct. 12 |
| Mountaingrove | 34.4 | 39.7 | 46.4 | 55.2 | 62.6 | 71.5 | 75.6 | 78.8 | 69.0 | 59.0 | 54.1 | 26.8 | 56.1 | 100 | − 4 | May 2 | Oct. 12 |
| Mount Vernon | 37.6 | 42.7 | a45.4 | f52.0 | 66.2 | 73.0 | 77.8 | 79.8 | 71.6 | 59.6 | 56.4 | 28.2 | 57.5 | 106 | − 4 | Apr. 14 | Oct. 12 |
| Neosho | 38.9 | 42.8 | 48.0 | 57.9 | 63.8 | 73.6 | 79.1 | 78.8 | 71.6 | 59.6 | 57.4 | 29.8 | 58.4 | 107 | −17 | May 2 | Sept. 27 |
| Oakfield | 33.2 | 39.6 | 44.2 | 55.6 | 63.2 | 74.2 | 76.6 | 80.2 | 68.4 | 57.2 | 55.2 | 26.1 | 56.1 | 101 | − 6 | Apr. 10 | Oct. 12 |
| *Olden | 36.9 | a41.8 | 48.0 | 56.1 | 63.4 | 73.4 | 74.8 | 78.6 | 69.2 | 59.0 | 55.8 | 29.6 | 57.2 | 101 | − 3 | Apr. 13 | Oct. 12 |
| Oregon | 25.8 | 32.4 | 37.7 | 49.0 | 61.0 | 70.2 | 75.2 | 77.9 | 65.1 | 52.9 | 46.6 | 17.8 | 51.0 | 99 | −13 | May 2 | Oct. 12 |
| Perryville | 35.2 | 40.2 | 44.7 | 53.0 | ..... | ..... | ..... | ..... | ..... | a54.3 | a54.4 | 26.4 | ..... | ..... | ..... | ..... | Oct. 12 |
| Rolla | 33.8 | 40.1 | 45.0 | 56.0 | 63.5 | 73.3 | 76.8 | 80.2 | 69.2 | 58.4 | 55.6 | 26.6 | 56.5 | 101 | − 7 | Apr. 13 | Oct. 12 |
| Sikeston | 38.4 | 44.0 | 48.4 | 59.2 | 65.8 | 77.2 | 79.2 | 80.3 | 70.7 | 60.1 | 57.6 | 32.9 | 59.5 | 101 | 3 | Apr. 9 | Oct. 12 |
| St. Charles | 32.3 | 39.0 | 44.0 | 55.4 | 62.4 | 74.0 | 77.4 | 81.2 | 68.2 | 56.3 | 54.5 | 25.3 | 55.8 | 100 | − 8 | Apr. 13 | Oct. 12 |
| *Springfield | 34.0 | 40.0 | 44.7 | 54.2 | 62.5 | 72.2 | 76.8 | 79.2 | 70.6 | 59.4 | 55.4 | 26.5 | 56.3 | 102 | − 3 | May 1 | Oct. 12 |
| *St. Louis | 32.8 | 39.4 | 43.6 | 54.2 | 63.5 | 75.0 | 77.0 | 81.1 | 68.3 | 56.4 | 54.5 | 26.4 | 56.0 | 98 | − 1 | Apr. 10 | Oct. 12 |
| Steffenville | 29.8 | 33.9 | 39.6 | 51.5 | 60.8 | a72.0 | 74.4 | 79.3 | 66.8 | 54.4 | 50.4 | 21.2 | 52.8 | 99 | −10 | May 2 | Oct. 12 |
| Steelville | ..... | ..... | a45.4 | 56.0 | 63.0 | 73.2 | c79.2 | 76.8 | 69.2 | 58.2 | e54.4 | 27.1 | ..... | ..... | ..... | Apr. 24 | Sept. 28 |
| Sublett | 27.3 | 31.7 | ..... | 46.8 | f57.7 | 71.2 | 73.8 | 79.4 | b65.0 | ..... | 49.0 | 20.4 | ..... | ..... | ..... | May 2 | Oct. 12 |
| *Trenton | 28.0 | 32.4 | 39.6 | 51.4 | 62.0 | 73.2 | 76.6 | 79.0 | 66.2 | 53.7 | 49.2 | 21.2 | 52.7 | 98 | − 9 | May 2 | Oct. 12 |
| *Unionville | 23.7 | 29.6 | 37.2 | 46.7 | 58.5 | 70.6 | 73.2 | 78.0 | 65.2 | 51.8 | 47.8 | 16.2 | 49.9 | 100 | −14 | May 2 | Oct. 12 |
| Warrensburg | 32.8 | 37.5 | 44.2 | 55.1 | 64.6 | 74.6 | 77.5 | 80.8 | 69.9 | 58.8 | 54.2 | 24.5 | 56.2 | 103 | − 7 | May 1 | Oct. 12 |
| *Warrenton | 29.1 | 35.4 | 41.0 | 52.7 | 62.5 | 74.0 | 76.2 | 80.3 | 67.4 | 54.3 | 51.8 | 21.8 | 53.9 | 102 | − 6 | May 2 | Oct. 12 |
| Warsaw | 35.2 | 40.4 | 45.5 | 56.6 | b64.4 | 75.2 | 78.8 | 81.8 | 71.4 | 60.0 | 55.2 | 27.0 | 57.6 | 107 | −20 | May 2 | Sept. 28 |
| Willow Springs | 37.2 | 41.2 | 47.4 | 56.4 | 63.0 | 73.6 | 77.2 | 49.5 | 70.4 | 58.8 | 55.6 | ..... | ..... | 103 | − 3 | May 2 | Oct. 12 |
| *Montana.* | | | | | | | | | | | | | | | | | |
| Adams | 8.8 | 18.0 | 28.8 | 35.6 | 51.6 | 61.9 | 67.3 | 69.7 | 60.8 | 44.7 | 32.4 | 10.1 | 40.8 | 100 | −35 | May 15 | Sept. 23 |
| Adel | d11.6 | 24.0 | 32.1 | 32.6 | 45.6 | 55.9 | 61.6 | 63.0 | 54.0 | 44.6 | 34.2 | 17.8 | 39.8 | 89 | −34 | June 9 | Aug. 28 |
| Agricultural College | 17.6 | 25.0 | 31.0 | 33.2 | 45.6 | 57.8 | 63.2 | 63.9 | 53.9 | 44.6 | 34.2 | 12.4 | 40.2 | 93 | −28 | May 18 | Sept. 23 |
| Anaconda | 21.8 | 28.6 | 31.7 | 34.8 | 45.6 | 56.0 | a61.8 | 63.0 | 54.4 | a44.7 | 34.2 | c17.8 | 41.2 | 93 | −25 | June 6 | Aug. 28 |
| Augusta | 11.0 | 23.0 | 32.3 | 33.6 | 47.0 | 55.6 | a60.4 | 59.4 | 54.5 | 44.8 | 33.3 | 16.2 | 39.3 | 89 | −51 | May 20 | Aug. 28 |
| Babb | 8.0 | 21.4 | 27.4 | 28.2 | 41.5 | 52.4 | a56.4 | a57.4 | 54.9 | 43.4 | 26.6 | 15.6 | 36.1 | 84 | −46 | June 25 | July 18 |
| Big Timber | ..... | 27.6 | 35.0 | a36.8 | c51.6 | 61.4 | a68.6 | 68.5 | ..... | ..... | ..... | d18.6 | ..... | 101 | ..... | May 19 | ..... |
| *Billings | a19.8 | a29.2 | 36.8 | 40.6 | 50.4 | 63.4 | 70.0 | 69.6 | 59.2 | a45.2 | 33.6 | a12.8 | 44.2 | 105 | −30 | May 19 | Sept. 18 |
| Boulder Nursery | ..... | ..... | ..... | ..... | 43.0 | 53.8 | a60.0 | 60.3 | c50.2 | 41.4 | 32.8 | c12.6 | ..... | 93 | ..... | June 12 | Aug. 27 |
| Bowen | 13.0 | 15.1 | 16.2 | 26.4 | 41.6 | 50.6 | 55.7 | 55.3 | 53.4 | 39.0 | 26.9 | 5.7 | 33.2 | 89 | −38 | June 26 | July 12 |
| Bridger | 20.4 | 26.4 | a36.3 | 40.3 | b52.6 | 65.2 | 71.2 | 72.4 | a61.2 | a48.7 | 38.8 | 12.6 | 45.5 | 105 | −27 | May 19 | Sept. 23 |
| Broadview Ex. Sta | 12.8 | 23.2 | 32.5 | 35.6 | 48.6 | 60.4 | 67.4 | 69.4 | 58.0 | 44.0 | 33.2 | 10.0 | 41.3 | 100 | −40 | May 19 | Aug. 28 |
| Busby | 12.8 | 22.2 | 32.9 | 35.8 | a49.0 | 62.2 | ..... | ..... | ..... | ..... | 34.0 | 11.0 | ..... | ..... | −30 | May 15 | ..... |
| Busteed | 17.1 | 26.4 | 33.5 | 36.0 | 49.0 | 59.3 | 66.2 | 68.0 | 57.6 | 46.6 | 37.1 | 16.7 | 42.8 | 99 | −34 | May 19 | Sept. 19 |
| Butte | 22.9 | 28.8 | 33.6 | 35.3 | 45.6 | 57.5 | 63.4 | 65.0 | 54.3 | 45.4 | 33.8 | 18.0 | 42.0 | 92 | −19 | June 12 | Sept. 23 |
| Canyon Ferry | 11.4 | 24.3 | 33.8 | 38.4 | 50.6 | 61.2 | 67.2 | 67.6 | 57.3 | a45.8 | 36.3 | 13.2 | 42.3 | 97 | −36 | May 19 | Sept. 23 |
| Cascade | 16.1 | 29.6 | 33.9 | 38.1 | 50.6 | 59.5 | 66.0 | 66.4 | 59.9 | 48.7 | 37.6 | 20.0 | 43.9 | 97 | −52 | May 19 | Aug. 28 |
| Chessman Reservoir | 14.0 | 22.1 | 25.2 | 27.8 | 40.4 | 51.1 | 57.4 | 59.8 | a50.4 | 41.7 | 32.0 | e16.7 | 36.6 | 85 | −38 | June 6 | Aug. 28 |
| Chester | 1.4 | 12.8 | 29.6 | ..... | 50.3 | 59.4 | 67.8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | −55 | May 19 | ..... |
| Chinook | 3.8 | 14.7 | 28.3 | b31.0 | a54.9 | ..... | c67.7 | ..... | ..... | ..... | 30.0 | 14.9 | ..... | ..... | −42 | May 13 | ..... |
| Chouteau | 12.5 | 26.2 | a34.4 | b34.5 | 47.1 | 55.2 | 63.2 | 61.3 | 55.8 | c45.2 | a34.2 | b19.9 | 40.8 | 92 | −42 | June 12 | Aug. 28 |
| Clear Creek | a10.5 | 23.4 | 31.6 | 35.3 | 51.4 | a60.0 | 64.4 | e65.4 | 59.4 | 45.2 | 32.0 | a11.6 | 40.8 | 93 | −34 | May 19 | ..... |
| Columbia Falls | 14.8 | 28.0 | 36.1 | 39.4 | 50.3 | a61.0 | 62.3 | 60.9 | 57.4 | 44.5 | d34.6 | a19.1 | 42.4 | 96 | −35 | May 30 | July 19 |
| Como | 20.9 | 31.2 | 35.8 | 39.0 | 46.5 | 56.2 | 60.4 | 62.2 | 54.0 | 44.6 | 35.4 | 26.6 | 42.2 | 91 | −14 | Apr. 30 | Oct. 30 |
| Crow Agency | 15.2 | 25.0 | 36.0 | 39.3 | 52.3 | 65.2 | 71.2 | 71.5 | 59.4 | 46.8 | 34.6 | 11.6 | 44.0 | 101 | −28 | May 19 | Sept. 24 |
| Culbertson | 6.2 | 17.0 | 29.4 | 36.8 | 54.2 | 65.3 | 70.8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | −35 | May 15 | ..... |
| Cut Bank | 8.8 | d24.0 | 30.8 | 33.6 | 46.7 | 58.2 | 63.8 | 62.8 | 56.6 | b45.2 | 29.4 | 15.0 | 39.5 | 90 | −43 | May 18 | Aug. 28 |
| Dayton | 16.2 | 27.8 | 34.0 | 38.3 | 47.0 | 58.4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | −22 | ..... | ..... |
| Decker | 4.0 | 16.8 | 35.0 | 42.3 | 52.9 | 60.4 | 65.4 | 69.8 | 59.2 | 48.4 | 33.0 | 0.4 | 40.6 | 100 | −34 | May 17 | Aug. 26 |
| Denton | a12.8 | 23.8 | b31.4 | e34.6 | c48.2 | a58.1 | c63.9 | d64.6 | f55.6 | a44.8 | e32.0 | ..... | ..... | 95 | −46 | May 14 | Sept. 19 |
| Dillon | 22.6 | 29.4 | 36.5 | 41.1 | 50.4 | 63.4 | 66.4 | 62.6 | 55.8 | 51.5 | 37.2 | 19.2 | 44.7 | 90 | −22 | May 14 | Sept. 17 |
| East Anaconda | 20.8 | 26.8 | 30.4 | a33.0 | 44.0 | 56.0 | 62.7 | 64.6 | 54.1 | 44.2 | 32.8 | 17.7 | 40.6 | 90 | −23 | June 9 | Sept. 21 |
| Ekalaka | 16.4 | 24.8 | 30.6 | 34.9 | 50.0 | 65.2 | 69.2 | 73.7 | 62.3 | 47.2 | 35.4 | 11.8 | 43.5 | 101 | −29 | May 18 | Oct. 8 |
| Evans | 17.2 | 26.0 | c29.7 | 33.8 | d49.3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Fallon | 5.8 | 17.4 | 32.0 | 37.3 | 53.2 | 64.1 | 70.6 | 72.6 | 61.8 | 46.2 | 32.2 | 10.1 | 41.9 | 104 | −39 | May 15 | Sept. 19 |
| Family | ..... | ..... | 32.3 | 34.0 | 48.3 | ..... | e65.0 | a62.2 | 56.6 | a44.8 | 30.6 | 19.6 | ..... | 99 | ..... | ..... | Aug. 28 |
| Fish Creek | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 57.0 | 47.0 | 38.8 | 28.3 | 13.2 | ..... | ..... | ..... | ..... | ..... |
| Forsyth | 9.8 | d24.6 | a33.3 | b40.2 | b55.2 | a67.3 | a73.3 | c76.1 | d62.8 | 49.7 | a35.4 | b13.8 | 45.1 | 106 | −39 | May 20 | Oct. 11 |
| *Fort Benton | 11.2 | 22.3 | 33.0 | 37.0 | 50.5 | 60.7 | ..... | 67.8 | 59.8 | 49.6 | 34.6 | 18.7 | ..... | ..... | −44 | May 17 | Oct. 13 |
| Fortine | 11.2 | 27.5 | 34.0 | 37.0 | 46.8 | 56.2 | a59.0 | ..... | 54.7 | 42.8 | 34.6 | 16.0 | ..... | ..... | −49 | ..... | ..... |
| Fort Shaw | 14.0 | 27.6 | 33.6 | 36.3 | 49.5 | 61.0 | a66.0 | a66.4 | 58.8 | 46.6 | a35.4 | 18.3 | 42.8 | 93 | −49 | May 18 | Aug. 28 |
| Fort W. H. Harrison | 9.0 | 19.6 | 28.8 | ..... | 49.4 | 59.8 | 66.4 | 67.4 | 57.5 | 45.6 | 35.2 | 13.9 | ..... | 99 | −37 | May 19 | Oct. 1 |
| Foster | ..... | ..... | ..... | ..... | ..... | f67.1 | 71.8 | 72.5 | 61.5 | 47.2 | 32.9 | 11.4 | ..... | 105 | ..... | ..... | Sept. 24 |
| Garneil | 11.2 | 19.0 | a27.4 | 29.4 | f43.1 | 52.2 | 58.0 | 60.6 | 50.8 | ..... | 33.1 | e15.0 | ..... | 87 | −39 | May 19 | Aug. 28 |
| Glasgow | ..... | 16.4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *Glendive | 10.4 | 18.8 | 31.8 | 38.5 | 54.6 | 65.6 | 71.8 | 74.2 | 63.2 | b44.4 | 33.2 | 10.4 | 43.1 | 102 | −32 | May 8 | Oct. 9 |
| Goldbutte | 6.5 | 17.4 | 29.4 | 32.6 | 48.2 | 57.7 | 64.0 | 65.4 | 57.6 | 43.6 | b30.6 | a16.4 | 39.1 | 92 | −38 | May 19 | Sept. 23 |
| Graham | 15.8 | 24.0 | 32.4 | 38.0 | a50.4 | a64.6 | 70.8 | ..... | e60.9 | ..... | ..... | d11.5 | ..... | ..... | −27 | May 18 | Sept. 24 |
| Grayling | ..... | 14.8 | 23.4 | 27.3 | 39.2 | 50.8 | d54.3 | 55.3 | 47.1 | b36.7 | a25.4 | 5.0 | ..... | 85 | ..... | June 25 | July 7 |
| Great Falls | 14.9 | a26.6 | 35.0 | 38.0 | 51.3 | 60.6 | 67.6 | 68.6 | 59.6 | 48.9 | 35.8 | 19.2 | 43.8 | 94 | −44 | May 19 | Oct. 8 |
| Hamilton | 22.6 | 35.2 | 39.6 | a42.8 | 51.4 | 60.7 | 65.0 | 66.4 | e57.4 | 47.6 | 40.6 | 24.6 | 46.2 | 93 | −33 | May 8 | Sept. 23 |
| Harlowton | 12.7 | 21.6 | 32.1 | 34.4 | 47.5 | 57.7 | 64.1 | 63.5 | e55.0 | f45.5 | 33.1 | b14.4 | 40.1 | 96 | −44 | May 20 | Aug. 28 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *Montana*—Contd. | | | | | | | | | | | | | | | | | |
| *Havre | 5.2 | 17.0 | 31.3 | 35.4 | 52.8 | 62.8 | 67.4 | 67.8 | 60.6 | 45.6 | 29.0 | 11.8 | 40.6 | 98 | −40 | May 19 | Sept. 4 |
| *Helena | 11.8 | 24.4 | 33.2 | 35.9 | 48.8 | 58.7 | 65.6 | 67.0 | 56.2 | 46.2 | 36.2 | 15.0 | 41.6 | 95 | −30 | May 8 | Oct. 12 |
| Huntley | 14.8 | 25.8 | 36.7 | 40.2 | 52.6 | 64.0 | 71.9 | 72.6 | 62.2 | 48.0 | 35.5 | 14.1 | 44.9 | 103 | −34 | May 19 | Sept. 19 |
| Jocko | ..... | 33.6 | 36.8 | 39.0 | 48.4 | 57.7 | 61.6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | May 20 | ..... |
| Jordan | 6.4 | 19.4 | ..... | 33.0 | ..... | 62.2 | 70.5 | 71.6 | 62.0 | a43.6 | 33.0 | 8.2 | ..... | 104 | −43 | ..... | Sept. 19 |
| *Kalispell | 13.8 | 26.8 | 34.6 | 38.6 | 48.6 | 58.9 | 62.2 | 61.7 | 55.2 | 44.9 | 35.5 | 19.2 | 41.7 | 89 | −34 | May 8 | Oct. 7 |
| Lewistown | 15.1 | 25.8 | b29.8 | 32.8 | 48.8 | 59.1 | 63.7 | 64.7 | 56.0 | f45.6 | 35.0 | 13.8 | 40.8 | 97 | −37 | May 23 | Oct. 1 |
| Livingston | 22.0 | 28.9 | 36.1 | 37.7 | 50.0 | 61.4 | 68.6 | 69.4 | 58.2 | 49.4 | 39.6 | 18.9 | 45.0 | 100 | −23 | May 17 | Oct. 8 |
| Lonetree | d11.5 | 29.0 | a33.9 | 37.1 | 52.0 | 60.6 | 66.2 | 68.2 | 60.5 | 48.8 | b37.0 | 18.0 | 43.6 | 96 | −36 | May 12 | Oct. 12 |
| Lubec | 11.5 | 30.6 | 33.2 | 35.7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Malta | ..... | ..... | ..... | c32.0 | d51.6 | 63.1 | 68.8 | d71.7 | 61.6 | 43.7 | 28.4 | 7.4 | ..... | 103 | ..... | May 23 | Sept. 23 |
| Melstone | ..... | ..... | ..... | ..... | ..... | 66.2 | ..... | ..... | 62.4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *Miles City | 11.1 | 24.0 | 33.9 | 39.4 | 55.1 | 67.5 | 74.6 | 75.6 | 63.9 | 49.4 | 35.6 | 13.0 | 45.3 | 105 | −30 | May 9 | Oct. 9 |
| *Missoula | 19.8 | 31.0 | 37.5 | 39.8 | 49.6 | 59.8 | 64.6 | 65.8 | 57.1 | 46.2 | 36.8 | 21.9 | 44.2 | 97 | −21 | May 19 | Sept. 23 |
| Norris | 21.8 | 28.9 | 35.6 | 39.8 | 48.8 | 61.4 | 67.6 | 68.5 | 57.5 | 47.8 | 35.0 | 17.3 | 44.2 | 96 | −32 | June 11 | Sept. 23 |
| Nye | 19.7 | 25.8 | 29.0 | 30.2 | 43.2 | 52.3 | 59.0 | 58.8 | 50.4 | 42.2 | 32.9 | 18.7 | 38.5 | 88 | −29 | July 12 | Aug. 3 |
| Ovando | 13.6 | a23.6 | a28.7 | 32.2 | 41.6 | 53.2 | 57.2 | 56.0 | b49.0 | ..... | ..... | ..... | ..... | 92 | −25 | May 21 | Aug. 6 |
| Philipsburg | a19.8 | 28.6 | 30.2 | 34.0 | 44.9 | c53.6 | c60.4 | c61.4 | a53.0 | 44.6 | 34.9 | 18.4 | 40.3 | 92 | −28 | June 9 | Aug. 6 |
| Plains | 17.8 | 31.4 | 37.6 | 37.6 | 49.2 | 59.1 | 63.7 | 64.4 | 57.1 | 46.7 | 35.8 | 22.8 | 43.6 | 92 | −21 | May 18 | Sept. 23 |
| Pleasant Valley | ..... | 25.0 | c29.2 | 36.8 | h47.6 | 56.2 | 58.9 | 55.0 | 51.8 | 42.7 | 34.0 | 17.0 | ..... | 99 | ..... | July 21 | Aug. 2 |
| Polson | a18.8 | 29.4 | 33.3 | 41.4 | 49.6 | 60.7 | a64.8 | 65.4 | 57.6 | 46.2 | 36.9 | 22.5 | 43.9 | 92 | −17 | May 14 | Oct. 8 |
| Poplar | 4.2 | 12.5 | 28.3 | 35.6 | 54.1 | 64.2 | 70.3 | 71.6 | 61.9 | 43.0 | 30.5 | 7.2 | 40.3 | 103 | −41 | June 7 | Sept. 22 |
| Raymond | a12.6 | a19.6 | b31.9 | b33.0 | a49.8 | a57.8 | a62.7 | d68.8 | c65.2 | 46.1 | ..... | ..... | ..... | 96 | ..... | June 7 | Oct. 6 |
| Red Lodge | 18.0 | 20.7 | 28.0 | 30.7 | 45.0 | 55.5 | 62.2 | 64.2 | 53.2 | 42.8 | 34.0 | 14.0 | 39.0 | 91 | −27 | May 19 | Aug. 28 |
| Renova | a18.9 | 29.5 | 35.6 | 38.2 | 49.2 | 59.2 | 64.1 | 64.5 | 55.8 | 47.0 | 36.6 | 18.9 | 43.0 | 94 | −42 | May 19 | Sept. 23 |
| Ryegate | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | k50.2 | 40.8 | 31.4 | 8.0 | ..... | ..... | ..... | ..... | ..... |
| St. Ignatius | a19.8 | 33.9 | 37.8 | 42.2 | a50.8 | 59.7 | b63.1 | b63.8 | 57.3 | 46.2 | 37.6 | a22.0 | 44.5 | 96 | −30 | May 19 | Sept. 23 |
| St. Regis | d19.1 | c32.1 | 36.9 | ..... | 48.6 | ..... | ..... | 61.4 | 55.8 | 45.6 | 36.5 | 23.4 | ..... | ..... | −18 | ..... | ..... |
| Sedan | 15.6 | 22.4 | 28.4 | 31.0 | 43.8 | 55.1 | 60.8 | 62.0 | 51.6 | 42.6 | 32.2 | 14.0 | 38.3 | 90 | −33 | May 25 | Aug. 28 |
| Snowshoe | 12.6 | 25.8 | 30.9 | 33.4 | 42.8 | 54.0 | 58.6 | 58.5 | 52.8 | 41.2 | 30.4 | 15.6 | 38.0 | 88 | −26 | May 19 | Sept. 18 |
| Springbrook | 10.8 | 20.0 | 31.1 | 36.9 | 52.5 | 63.4 | 68.6 | 72.0 | 61.0 | 43.8 | 32.4 | 9.2 | 41.8 | 103 | −44 | May 25 | Aug. 28 |
| Tokna | 6.4 | 16.4 | 29.2 | 37.6 | a53.1 | b66.0 | 70.0 | 72.0 | 61.8 | 44.0 | a32.1 | 10.0 | 41.6 | 103 | −35 | May 22 | Sept. 21 |
| Toston | 13.8 | 25.6 | 33.9 | 38.0 | a49.4 | 60.0 | 64.2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | May 18 | ..... |
| Troy | 15.6 | 29.1 | b34.4 | 40.6 | 50.2 | 61.6 | 60.0 | 64.2 | 59.6 | 51.8 | 39.6 | 27.0 | 44.5 | 108 | −40 | ..... | ..... |
| Upper Lake McDonald | ..... | a23.1 | 31.2 | b35.6 | c45.0 | a54.2 | a60.0 | ..... | ..... | ..... | f30.0 | d20.5 | ..... | ..... | ..... | ..... | ..... |
| Utica | 17.2 | 25.3 | 32.1 | 33.8 | 47.4 | 57.3 | 62.6 | 66.4 | 56.0 | 45.5 | 34.0 | 16.4 | 41.2 | 95 | −36 | May 18 | Sept. 23 |
| Valentine | 10.0 | 20.4 | 31.6 | 36.7 | 51.0 | 62.5 | 67.5 | 69.3 | 59.8 | 45.3 | 32.2 | 12.1 | 41.5 | 102 | −50 | May 18 | Sept. 19 |
| Virginia City | ..... | ..... | 29.7 | 34.2 | 45.0 | 58.4 | 64.0 | 65.6 | a53.2 | 44.4 | 33.4 | 13.9 | ..... | 94 | ..... | May 19 | Sept. 12 |
| Warm Springs Creek | ..... | ..... | ..... | ..... | ..... | ..... | 52.0 | 49.6 | 41.6 | a35.1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Wolf Creek | 15.0 | 27.8 | 34.3 | 37.5 | 48.2 | 59.9 | 66.4 | 68.5 | 58.7 | 49.8 | b39.9 | 20.0 | 43.8 | 98 | −44 | May 19 | Aug. 28 |
| *Nebraska.* | | | | | | | | | | | | | | | | | |
| Ainsworth | 21.0 | 25.7 | 32.0 | 42.0 | 55.9 | 67.6 | 73.8 | 77.2 | 63.4 | 49.9 | 37.4 | 11.8 | 46.5 | 100 | −20 | May 30 | Oct. 12 |
| Alliance | 23.9 | 27.1 | 34.2 | 42.6 | 53.5 | 68.1 | 75.2 | 73.9 | ..... | ..... | ..... | ..... | ..... | 98 | ..... | May 10 | Sept. 19 |
| Alma | 26.6 | 30.6 | 38.4 | 49.2 | a59.8 | 71.7 | 76.5 | 79.0 | 65.8 | 53.2 | 42.4 | 16.7 | 50.8 | 103 | −19 | May 3 | Oct. 12 |
| Anoka | 17.7 | 23.2 | 30.0 | 40.3 | 55.8 | 67.5 | 72.1 | 75.9 | 61.0 | 48.6 | 33.8 | 10.1 | 44.7 | 102 | −26 | May 10 | Sept. 24 |
| *Ashland | 23.8 | 31.2 | 36.8 | 46.4 | 60.2 | 71.2 | 76.2 | 80.3 | 66.1 | 53.6 | 43.4 | 15.0 | 50.4 | 106 | −17 | May 2 | Oct. 12 |
| Atkinson | 18.0 | ..... | ..... | ..... | ..... | b68.6 | 73.2 | 74.8 | 61.4 | 48.4 | 36.2 | 10.3 | ..... | 98 | ..... | ..... | Oct. 11 |
| *Auburn | 25.7 | 33.4 | 38.4 | 46.2 | 59.3 | 70.0 | 75.6 | 78.2 | 66.0 | b54.6 | 47.0 | 18.0 | 51.0 | 104 | −12 | May 10 | Oct. 12 |
| Aurora | 23.4 | 32.3 | 38.0 | 49.2 | 59.7 | ..... | ..... | 79.4 | 66.0 | 53.3 | 40.6 | 13.9 | ..... | ..... | −14 | May 10 | Oct. 12 |
| *Beatrice | 25.6 | 32.8 | 38.8 | 50.5 | 61.2 | 72.0 | 77.2 | 79.0 | 66.0 | 54.3 | 45.7 | 16.2 | 51.6 | 100 | −15 | May 10 | Oct. 12 |
| Beaver City | 26.5 | 31.0 | 40.7 | 52.4 | a62.3 | 72.2 | 78.2 | 81.4 | 68.6 | 55.0 | 41.3 | 17.2 | 52.2 | 108 | −15 | May 9 | Oct. 12 |
| Bellevue | 23.8 | 30.5 | 36.4 | 47.4 | 60.6 | 70.2 | 75.2 | 78.6 | 66.2 | 54.3 | 44.2 | 14.2 | 49.3 | 99 | −16 | May 2 | Oct. 12 |
| *Blair | 22.4 | 29.6 | b35.4 | 47.8 | 60.8 | 71.0 | 71.0 | a78.3 | 64.8 | 52.4 | 43.0 | 16.2 | 49.4 | 99 | −15 | May 2 | Oct. 12 |
| Bloomfield | c17.3 | 22.4 | 30.1 | ..... | ..... | ..... | ..... | k75.8 | 63.2 | 50.8 | 38.0 | 11.0 | ..... | ..... | −26 | May 3 | Sept. 24 |
| Bloomington | b25.4 | d32.8 | 38.6 | 48.5 | 61.6 | 71.4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | May 3 | ..... |
| Bridgeport | 25.2 | 25.7 | 35.2 | 42.8 | 52.8 | 65.6 | 71.4 | c73.8 | 62.8 | 51.2 | 37.9 | a14.9 | 46.6 | 98 | −19 | May 17 | Sept. 23 |
| *Brokenbow | 20.8 | a25.6 | d34.7 | 42.2 | 56.7 | 69.0 | 73.6 | 76.2 | 62.2 | 48.6 | d36.0 | ..... | ..... | 101 | −18 | May 10 | Sept. 22 |
| Burge | ..... | ..... | ..... | ..... | 54.9 | 67.4 | 74.8 | 76.1 | 62.2 | 49.6 | 37.4 | 13.6 | ..... | 102 | ..... | May 15 | Sept. 19 |
| Callaway | 24.3 | 29.2 | 36.6 | ..... | 57.8 | 69.6 | 74.2 | 77.2 | 64.2 | ..... | 42.6 | 17.8 | ..... | 102 | −18 | May 1 | Sept. 24 |
| Cambridge | 27.4 | 30.2 | 38.7 | 48.8 | 60.0 | 71.2 | 76.0 | 79.8 | 66.8 | 53.9 | 41.5 | 16.6 | 50.9 | 105 | −21 | May 9 | Sept. 23 |
| Canton (near) | ..... | ..... | ..... | ..... | d50.2 | j63.2 | 69.8 | j72.9 | 158.5 | k44.6 | c34.9 | d12.0 | ..... | 98 | ..... | May 15 | Sept. 23 |
| *Columbus | 20.4 | 26.6 | 34.9 | 43.6 | 58.6 | 69.5 | 73.8 | 77.4 | 64.2 | 52.6 | 40.4 | 13.7 | 48.0 | 102 | −16 | May 11 | Oct. 12 |
| Creighton | ..... | ..... | 31.8 | 43.9 | 58.8 | 69.9 | 72.8 | 76.6 | 63.1 | a52.1 | 39.8 | 11.9 | ..... | 100 | ..... | May 10 | Oct. 13 |
| Crete | 23.6 | 31.7 | 37.0 | 47.4 | 60.4 | 70.8 | ..... | ..... | 67.2 | 54.6 | 44.2 | 14.9 | ..... | ..... | −14 | May 10 | Oct. 12 |
| *Culbertson | 28.9 | 31.0 | 39.2 | 48.6 | e61.8 | a72.9 | a80.6 | 82.4 | 67.1 | ..... | 42.5 | a13.8 | ..... | 107 | −15 | May 2 | Sept. 23 |
| Curtis | ..... | ..... | ..... | ..... | ..... | c71.2 | d77.6 | a78.7 | b65.2 | ..... | j38.8 | ..... | ..... | ..... | ..... | ..... | ..... |
| David City | 22.2 | 29.5 | 35.1 | 46.3 | 58.8 | 69.2 | 73.5 | 77.0 | 63.8 | 52.2 | 41.6 | 14.0 | 48.6 | 95 | −14 | May 10 | Oct. 12 |
| Dawson | 27.0 | 34.0 | 39.4 | 50.2 | 61.0 | 72.5 | 76.7 | 79.1 | 66.0 | 54.5 | 46.9 | 17.2 | 52.0 | 102 | −11 | May 10 | Oct. 12 |
| Enderslake | ..... | ..... | ..... | ..... | ..... | 68.5 | e75.4 | 74.7 | 61.9 | j52.0 | 41.3 | ..... | ..... | 100 | ..... | ..... | Sept. 21 |
| Ewing | 17.2 | a22.8 | 29.9 | 39.7 | 57.9 | 70.0 | 73.8 | 76.6 | 62.6 | 49.6 | 37.4 | 11.2 | 45.7 | 100 | −22 | May 10 | Oct. 12 |
| *Fairbury | 25.2 | 32.2 | 38.8 | 49.4 | 62.2 | 73.0 | 77.9 | 80.1 | 67.6 | 55.6 | 46.6 | 17.5 | 52.2 | 105 | −10 | May 1 | Oct. 12 |
| *Fairmont | 22.0 | 28.2 | 35.0 | 44.6 | 58.2 | 69.3 | 74.3 | 77.6 | 63.8 | 53.6 | 42.2 | 14.2 | 48.6 | 101 | −13 | May 9 | Oct. 12 |
| Fort Robinson | f18.0 | 22.6 | 27.8 | ..... | ..... | 65.6 | 71.8 | 74.2 | 60.8 | 47.9 | 37.3 | 13.4 | ..... | 102 | −32 | ..... | Sept. 19 |
| Franklin | 24.6 | a31.4 | 38.4 | 49.3 | 60.8 | 71.6 | f76.6 | 79.4 | 66.8 | 54.6 | 41.4 | b14.8 | 50.8 | 104 | −20 | May 3 | Sept. 24 |
| Fremont | 22.4 | 28.8 | 35.5 | 45.6 | 59.9 | 70.0 | 74.6 | 78.0 | 65.0 | 52.8 | 42.0 | 14.4 | 49.1 | 100 | −14 | May 10 | Oct. 12 |
| Fullerton | 21.0 | 27.8 | 35.2 | 46.4 | 58.8 | 69.9 | 73.9 | 77.0 | 64.6 | 50.4 | a40.0 | 14.0 | 48.2 | 101 | −16 | May 10 | Oct. 11 |
| Geneva | 23.0 | 32.2 | 37.7 | 47.6 | 59.7 | 70.8 | 75.5 | 78.7 | 66.6 | 54.4 | 43.0 | 14.4 | 50.3 | 104 | −12 | May 10 | Oct. 12 |
| Genoa | 21.2 | 29.0 | 35.6 | 45.7 | 59.4 | 69.8 | 75.8 | 76.4 | 64.7 | 51.8 | 40.2 | 14.0 | 48.6 | 100 | −14 | May 10 | Oct. 11 |
| Gordon | ..... | ..... | ..... | ..... | ..... | c64.6 | a70.6 | a73.0 | a59.4 | 46.6 | d34.8 | b9.3 | ..... | 99 | ..... | ..... | Sept. 19 |
| Gothenburg | a25.8 | 28.0 | 37.3 | 46.6 | a59.3 | 70.8 | 76.0 | 77.5 | 65.4 | 52.4 | 40.3 | 16.4 | 49.6 | 103 | −17 | May 9 | Sept. 24 |
| *Grand Island | 22.7 | 31.4 | 36.2 | 46.8 | a60.3 | 72.2 | 74.6 | 78.0 | 64.0 | 51.8 | 41.2 | 16.0 | 49.6 | 100 | −15 | May 2 | Oct. 9 |
| Grant | b27.1 | c27.7 | b34.5 | e43.0 | a54.6 | e65.5 | e73.6 | f76.0 | 63.3 | b50.2 | k38.5 | a14.6 | 47.4 | 102 | −18 | May 9 | Sept. 25 |
| Greeley | 21.8 | 27.0 | 34.0 | 42.3 | 57.5 | 70.4 | 73.7 | 77.6 | 64.8 | 51.4 | 40.5 | 12.8 | 47.8 | 100 | −20 | May 10 | Sept. 24 |
| Halsey | 22.6 | 29.4 | 37.2 | 46.6 | 58.4 | 69.2 | 75.3 | 78.4 | 64.1 | 51.8 | 40.8 | 14.6 | 49.0 | 100 | −18 | May 10 | Sept. 24 |
| *Hartington | 18.0 | 24.1 | a31.8 | 40.8 | 58.2 | 67.5 | 71.3 | 75.8 | 62.0 | 49.5 | 37.9 | 12.2 | 45.8 | 98 | −18 | May 10 | Oct. 11 |
| Harvard | 21.0 | 27.0 | 34.3 | 44.9 | 58.7 | 69.4 | 73.8 | 78.0 | 63.1 | 50.6 | 39.4 | 13.8 | 47.8 | 103 | −15 | May 10 | Oct. 1 |
| *Hastings | a22.8 | 28.8 | 35.4 | 44.8 | 59.0 | 69.6 | 75.6 | 78.4 | 63.0 | 51.0 | 40.4 | 16.1 | 48.7 | 100 | −12 | May 2 | Oct. 12 |
| Hayes Center | a27.2 | a31.2 | 36.2 | 43.7 | 57.3 | 68.7 | a75.6 | 77.7 | 64.5 | 52.0 | 39.6 | 16.8 | 48.4 | 102 | −17 | May 9 | Oct. 12 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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*—Contd. | | | | | | | | | | | | | | | | | |
| Hay Springs | 19.6 | 24.0 | 31.2 | 41.0 | 50.5 | c64.6 | 70.7 | 73.0 | 60.4 | 47.7 | 35.7 | 12.5 | 44.2 | 97 | −29 | May 3 | Sept. 19 |
| Hebron | 23.6 | 31.1 | 37.4 | 48.3 | 60.2 | 71.5 | 76.0 | 79.2 | 65.5 | 53.1 | 43.6 | 16.3 | 50.5 | 105 | −10 | May 10 | Oct. 12 |
| Hillside | | | | | | | | | 61.8 | 49.0 | 37.4 | 13.4 | | | | | Oct. 11 |
| *Holdrege | 26.1 | 31.3 | 37.6 | 46.4 | 59.8 | 71.2 | 76.8 | 79.2 | 65.8 | 52.5 | 40.8 | 17.4 | 50.4 | 102 | −15 | May 9 | Oct. 12 |
| Hooper | 21.8 | 28.5 | 34.6 | 45.4 | 59.6 | 70.4 | 74.6 | 78.4 | 65.4 | 52.2 | 41.4 | 14.2 | 48.9 | 101 | −17 | May 10 | Oct. 11 |
| Imperial | 27.2 | 29.3 | 35.9 | 44.6 | f55.6 | 67.8 | 75.2 | 76.6 | 64.4 | f53.4 | 39.6 | 16.8 | 48.8 | 101 | −16 | May 17 | Sept. 23 |
| Kearney | 26.4 | 30.2 | 37.2 | 48.1 | b59.7 | 70.6 | a75.8 | 78.4 | c66.3 | a53.2 | d42.2 | 17.0 | 50.4 | 100 | −18 | May 9 | Oct. 12 |
| Kimball | 29.6 | a27.9 | 34.0 | 40.8 | 51.5 | 64.8 | 71.6 | 72.2 | 60.4 | 49.0 | 37.2 | 16.9 | 46.3 | 95 | −20 | May 15 | Oct. 9 |
| Kirkwood | 20.7 | 25.2 | 32.3 | 42.9 | 57.2 | 68.7 | a74.0 | 77.2 | 63.4 | 51.6 | a38.0 | a12.0 | 46.1 | 105 | −26 | May 9 | Oct. 11 |
| Leavitt | | | 35.6 | 44.4 | 60.0 | 70.5 | a75.8 | | | | | | | | | May 10 | |
| Lexington | 24.4 | 28.2 | 34.8 | 45.0 | 57.4 | 69.0 | 74.6 | 76.4 | 63.8 | 51.8 | 40.6 | 16.2 | 48.5 | 99 | −17 | May 12 | Sept. 24 |
| *Lincoln | 23.3 | 31.2 | 36.5 | 46.4 | 60.4 | 71.3 | 76.2 | 80.1 | 66.2 | 53.9 | 44.2 | 15.2 | 50.4 | 103 | −14 | May 10 | Oct. 12 |
| Lodgepole | c26.9 | | | | f52.3 | | | | | | | | | | | | |
| Loup | 21.4 | 27.5 | 33.1 | 44.8 | 57.6 | 69.2 | 73.9 | 76.4 | 62.8 | 50.6 | 40.2 | 14.4 | 47.7 | 100 | −17 | May 10 | Oct. 11 |
| Lynch | 18.6 | 27.6 | 32.2 | 42.8 | 53.8 | 69.7 | a73.9 | 78.7 | a63.8 | 52.4 | a36.4 | | | 104 | | May 16 | Sept. 24 |
| McCook | 27.4 | 29.8 | 37.9 | 47.4 | 59.0 | 69.8 | 74.8 | 78.3 | f62.8 | 52.7 | 40.0 | 16.2 | 49.7 | 103 | −22 | May 9 | Sept. 23 |
| Madison | 18.2 | a24.7 | 32.1 | c41.4 | 56.5 | 68.9 | 73.0 | 76.4 | b62.8 | 50.8 | 40.1 | 13.8 | 46.6 | 98 | −17 | May 10 | Oct. 11 |
| Minden | 23.0 | 29.3 | 36.2 | 45.2 | 58.7 | 69.8 | 74.6 | 78.1 | 65.0 | 51.9 | 40.2 | 14.8 | 48.9 | 102 | −20 | May 10 | Oct. 11 |
| Mitchell | | | | | | | 71.0 | 74.0 | 60.9 | 51.4 | 37.5 | 13.4 | | | | | Oct. 9 |
| Nebraska City | 24.8 | 32.4 | 36.4 | 49.8 | 61.2 | 70.3 | 75.9 | 78.6 | d69.0 | 54.2 | 46.6 | 16.6 | 51.3 | 100 | −12 | May 10 | Oct. 12 |
| Norfolk | 20.0 | 24.0 | a32.5 | 42.5 | 57.4 | 68.6 | b72.9 | 76.2 | 62.1 | 49.9 | 39.6 | 13.1 | 46.6 | 99 | −21 | May 10 | Oct. 12 |
| North Loup | 21.6 | 28.1 | 34.9 | 44.6 | 58.6 | 69.6 | 73.8 | a79.3 | 64.7 | 51.8 | 39.6 | 13.8 | 48.4 | 102 | −18 | May 10 | Sept. 24 |
| *North Platte | 25.0 | 27.0 | 36.0 | 44.3 | 57.1 | 69.0 | 74.2 | 76.7 | 64.0 | 51.4 | 38.6 | 15.2 | 48.2 | 97 | −15 | May 1 | Oct. 12 |
| Oakdale | 17.6 | 22.9 | 31.6 | 41.7 | 57.6 | 69.2 | 73.0 | 75.3 | 61.2 | 48.2 | 36.8 | 10.8 | 45.5 | 97 | −19 | May 10 | Oct. 12 |
| *Omaha | 22.8 | 30.4 | 35.8 | 45.6 | 60.8 | 70.4 | 75.6 | 79.5 | 65.6 | 53.6 | 43.9 | 15.6 | 50.0 | 98 | −13 | May 2 | Oct. 12 |
| Osceola | b23.2 | f27.8 | f34.7 | | | | | | | b49.5 | c40.8 | a14.2 | | | | | |
| Palmyra (*a*) | 24.3 | 30.3 | 36.4 | 46.8 | 60.9 | 71.2 | 76.2 | 79.6 | 65.8 | 54.0 | 44.5 | 15.9 | 50.5 | 102 | −12 | May 2 | Oct. 12 |
| Pawnee City | 24.6 | 33.2 | 39.2 | 49.6 | 60.8 | 71.3 | 75.8 | 78.2 | 67.0 | 53.6 | 46.4 | 17.2 | 51.4 | 102 | −10 | May 10 | Oct. 12 |
| Plymouth | 23.0 | 31.3 | 37.0 | 47.1 | 60.3 | 71.2 | 76.2 | 79.2 | 65.8 | 53.4 | 43.9 | 14.8 | 50.3 | 105 | −12 | May 10 | Oct. 12 |
| Purdum | 21.8 | 26.1 | 33.0 | a44.1 | 55.8 | 67.8 | 73.6 | 76.2 | 62.8 | 49.7 | 38.9 | 13.2 | 46.9 | 100 | −22 | May 10 | Sept. 24 |
| Ravenna | 22.5 | 28.8 | 35.8 | 45.6 | 59.0 | 70.2 | 74.2 | 77.8 | 63.8 | 51.6 | 40.8 | 17.7 | 49.0 | 101 | −16 | May 9 | Oct. 11 |
| Redcloud | 25.0 | 32.5 | 38.6 | 49.2 | 60.5 | 71.6 | 76.2 | 78.9 | 66.6 | 53.8 | 44.0 | 15.6 | 51.0 | 103 | −17 | May 10 | Oct. 12 |
| St. Paul | 22.4 | 29.4 | 36.3 | 46.0 | 59.6 | 71.4 | 75.2 | 78.8 | 65.7 | 52.0 | 40.1 | 15.4 | 49.4 | 102 | −15 | May 10 | Oct. 12 |
| Santee | 21.2 | 25.6 | 33.2 | 46.2 | 60.8 | 70.3 | 74.4 | 78.4 | 64.6 | 52.6 | 40.8 | 12.2 | 48.4 | 102 | −22 | May 10 | Oct. 12 |
| Sargent | | | | | | b68.8 | 73.1 | 76.1 | 62.4 | 51.1 | 38.6 | | | 102 | | May 11 | Oct. 11 |
| Scottsbluff | 24.8 | 27.6 | a36.0 | 43.0 | 53.0 | 65.5 | 71.8 | 74.1 | 61.6 | 48.6 | 39.0 | 15.4 | 46.7 | 100 | −25 | May 15 | Sept. 23 |
| Seward | 22.0 | f25.6 | | 45.0 | 57.4 | 70.1 | | 75.2 | 63.8 | 52.4 | 43.0 | 13.0 | | 108 | −17 | May 10 | Sept. 22 |
| Springview | 19.5 | 24.8 | 31.4 | 41.6 | 55.6 | 67.1 | 74.3 | 76.8 | 63.2 | 51.3 | 38.0 | 11.2 | 46.2 | 103 | −23 | May 10 | Sept. 22 |
| Stanton | 20.0 | 25.6 | 33.5 | 43.1 | 57.9 | 68.4 | 72.4 | 76.6 | 64.4 | 49.3 | 40.4 | 12.3 | 47.0 | 99 | −21 | May 10 | Oct. 12 |
| Superior | 22.0 | 28.2 | | a47.3 | b62.3 | | | | | | | | | | | May 10 | |
| Tecumseh | 25.2 | 32.6 | 38.0 | 49.2 | | | 78.8 | | | 55.2 | | | | | | May 3 | Oct. 12 |
| *Tekamah | 21.0 | 26.4 | 34.4 | 44.2 | 58.8 | 71.2 | 74.1 | 77.6 | 64.3 | 51.8 | 39.9 | 13.8 | 48.1 | 100 | −16 | May 3 | Oct. 12 |
| Turlington | 23.6 | 31.3 | 37.0 | a47.8 | 60.0 | 70.4 | 75.2 | 79.0 | 66.1 | 53.6 | 44.0 | 15.2 | 50.3 | 101 | −13 | May 10 | Oct. 12 |
| University Farm | 25.8 | 32.1 | 37.6 | 48.0 | 60.6 | 70.7 | 75.8 | 79.5 | 66.6 | 53.2 | 45.0 | 16.2 | 50.9 | 104 | −15 | May 10 | Oct. 12 |
| *Valentine | 19.6 | 23.8 | 30.6 | 40.0 | 54.0 | 67.2 | 73.4 | 71.0 | 61.7 | 49.0 | 36.0 | 12.4 | 44.9 | 99 | −23 | May 9 | Oct. 10 |
| Wakefield | 19.8 | 24.6 | 32.4 | 43.0 | 57.2 | 68.2 | 72.4 | 76.5 | 62.8 | 50.0 | 38.2 | 12.8 | 46.5 | 100 | −20 | May 10 | Oct. 12 |
| Walthill | | | | | | | 75.4 | b79.2 | 65.6 | 51.4 | 40.3 | | | | | | Oct. 11 |
| Weepingwater | 24.4 | 31.2 | 37.0 | 48.2 | 60.4 | 71.4 | 75.0 | 79.1 | | b52.0 | 43.7 | 14.6 | | 106 | −18 | May 3 | |
| Westpoint | 19.8 | 26.0 | 33.8 | 44.8 | 58.1 | 68.4 | 72.4 | 76.4 | 62.8 | 50.0 | 39.6 | 13.4 | 47.1 | 100 | −21 | May 10 | Oct. 11 |
| York | 23.0 | 31.4 | 37.0 | 47.2 | 59.9 | 71.1 | 75.7 | 79.4 | 66.2 | 53.6 | 42.2 | 14.4 | 50.1 | 105 | −14 | May 10 | Oct. 11 |
| *Nevada.* | | | | | | | | | | | | | | | | | |
| Battle Mountain | 33.9 | 33.5 | 35.2 | | 52.6 | 68.3 | 75.0 | 70.8 | 61.7 | 50.0 | 39.5 | 23.8 | | 112 | − 6 | June 11 | Sept. 12 |
| Beowawe | 34.7 | 29.2 | 36.8 | 44.6 | 49.4 | 61.2 | 69.0 | 68.9 | 55.9 | 49.4 | 35.7 | 21.6 | 46.4 | 100 | − 3 | June 16 | Aug. 19 |
| Carlin | 39.4 | 33.4 | 40.2 | 46.2 | 52.0 | 66.3 | 70.2 | 71.2 | 59.4 | 48.8 | 36.4 | 19.6 | 48.6 | 112 | −10 | (1) | (1) |
| Carson Dam | 39.2 | 38.2 | 41.1 | 51.3 | 56.4 | 68.4 | 72.0 | 73.9 | 63.4 | 53.9 | 42.4 | 29.2 | 52.4 | 97 | 9 | May 12 | Oct. 30 |
| Cherry Creek | 33.1 | 29.4 | 33.0 | 42.0 | 48.6 | 63.7 | 70.6 | 70.2 | 58.6 | 48.8 | 38.0 | 19.6 | 46.3 | 97 | −11 | May 24 | Sept. 12 |
| Clover Valley | 33.0 | 30.3 | 36.0 | 44.2 | 49.4 | 62.8 | 67.6 | | 57.9 | 49.7 | 37.8 | 15.3 | | | −12 | June 9 | Sept. 12 |
| Cobre | 26.4 | 24.7 | 30.0 | 48.8 | 46.6 | 61.6 | 64.0 | 70.0 | 53.7 | 42.2 | 30.2 | 18.5 | 43.1 | 98 | −15 | June 11 | Sept. 12 |
| Columbia | 37.5 | 35.0 | 41.2 | 50.4 | 56.8 | 72.6 | | 77.4 | 63.6 | 52.3 | 39.2 | 26.2 | | 97 | 5 | May 16 | Oct. 4 |
| Elko | | 27.7 | 40.4 | 41.8 | 54.6 | 63.3 | 66.2 | 66.4 | 56.9 | 47.1 | 32.6 | 15.0 | | 99 | −20 | June 9 | Sept. 1 |
| Ely | 31.7 | 28.6 | 34.2 | 42.5 | 48.4 | 62.6 | 71.6 | 64.5 | 57.2 | 49.0 | 41.9 | 20.9 | 46.1 | 96 | −16 | June 10 | Sept. 12 |
| Eureka | 33.8 | 29.8 | 33.9 | 42.6 | 48.8 | 63.3 | 69.2 | 70.8 | 59.0 | 48.8 | 37.4 | 20.6 | 46.5 | 98 | − 6 | July 6 | Sept. 12 |
| Fallon | 40.0 | 38.8 | 41.0 | 50.3 | 55.4 | 67.8 | 70.6 | 73.2 | 62.2 | 51.6 | 42.4 | 27.6 | 51.7 | 98 | 2 | May 24 | Oct. 29 |
| Fernley | 39.1 | 38.0 | 41.6 | 50.7 | 55.2 | 61.7 | 71.0 | | 65.2 | 53.0 | 42.0 | 29.2 | 51.7 | 100 | − 1 | June 18 | Oct. 8 |
| Gardnerville | 38.6 | 35.8 | 39.1 | 48.2 | 50.8 | 62.4 | 65.8 | 66.5 | 60.8 | 49.6 | 43.4 | 29.1 | 49.2 | 97 | 2 | July 6 | Sept. 12 |
| Golconda | 39.6 | 37.7 | 41.0 | 50.5 | 56.2 | 68.5 | 72.4 | 70.7 | 58.8 | 52.6 | 44.4 | 23.0 | 51.3 | 103 | − 4 | May 25 | Sept. 21 |
| Humboldt | 37.6 | 37.2 | 41.3 | 49.0 | 56.0 | 68.2 | 71.6 | 73.0 | 62.4 | | | | | 100 | | May 13 | Sept. 22 |
| Jean | 41.0 | | 52.8 | | | | | 82.0 | 73.3 | 60.4 | 50.3 | 37.6 | | | 1 | | Oct. 31 |
| Las Vegas | 46.7 | 44.8 | 48.7 | | 64.8 | 76.2 | 85.4 | 84.3 | 72.8 | 63.0 | 49.4 | 35.5 | | 115 | 12 | May 12 | Oct. 25 |
| Leetville | | 40.7 | 41.4 | 51.6 | 55.0 | 68.0 | 70.4 | 74.0 | 64.2 | 53.4 | 42.6 | 28.8 | | 99 | | May 13 | Sept. 22 |
| Lewers's Ranch | 35.4 | 35.9 | 39.4 | 48.8 | 51.6 | 60.5 | 64.6 | 68.2 | 59.6 | 51.2 | 42.0 | 27.8 | 48.8 | 97 | 0 | July 6 | Oct. 4 |
| Logan | 47.9 | 47.6 | 53.4 | 62.0 | 68.2 | 81.9 | 85.6 | 85.4 | 75.4 | 63.8 | 50.9 | 37.6 | 63.3 | 116 | 19 | May 17 | Oct. 31 |
| Loveloek | | | | 51.4 | 56.0 | 69.2 | 71.0 | 73.2 | 61.9 | 53.6 | 45.8 | | | 105 | 9 | May 24 | Sept. 21 |
| McAfee's Ranch | 36.2 | | | | 53.6 | 66.1 | | | 59.6 | 51.6 | 44.8 | 20.1 | | | −13 | May 20 | Sept. 13 |
| Millett | 35.6 | 33.6 | 35.8 | 45.8 | 50.6 | 63.0 | 67.8 | 66.2 | 58.4 | 47.8 | 36.2 | 19.0 | 46.6 | 97 | − 9 | May 29 | Sept. 13 |
| Mina | 40.0 | 38.4 | 40.8 | 52.8 | 58.2 | 72.1 | 76.3 | 76.0 | 64.8 | 52.6 | 43.6 | 27.2 | 53.6 | 104 | 3 | May 28 | Oct. 19 |
| Palmetto | 32.0 | 29.6 | 33.1 | 43.0 | 46.8 | 59.6 | | | | | | | | | | | |
| Potts | 29.8 | 25.7 | 31.6 | 40.0 | 46.0 | 60.4 | 65.4 | 63.9 | 53.4 | 43.6 | 32.0 | 16.4 | 42.4 | 96 | −11 | July 7 | Sept. 12 |
| Quinn River Ranch | 35.2 | 35.1 | 40.4 | 46.1 | 51.6 | 63.5 | 66.6 | 67.2 | 58.8 | 49.0 | 39.5 | 24.0 | 48.1 | 101 | −10 | (1) | (1) |
| *Reno | 37.8 | 37.3 | 39.4 | 48.8 | 52.4 | 63.6 | 67.4 | 69.6 | 60.8 | 51.6 | 41.1 | 29.6 | 50.0 | 97 | 4 | May 11 | Oct. 29 |
| San Jacinto | | 29.2 | 37.3 | 42.4 | 41.5 | | 58.6 | 60.2 | 48.8 | 39.5 | 34.4 | 15.8 | | | − 6 | (1) | (1) |
| Soda Lake | | | | 52.6 | 56.2 | 66.2 | | | 65.4 | 55.5 | 41.5 | 28.4 | | 103 | | May 14 | Oct. 22 |
| Tecoma | 29.4 | 29.4 | 34.2 | 49.8 | 48.8 | 62.9 | 67.4 | 68.6 | 58.8 | 47.4 | 35.6 | | 45.5 | 103 | | June 11 | Sept. 18 |
| *Tonopah | 33.8 | 32.1 | 35.7 | 47.4 | 53.4 | 67.8 | 73.4 | 73.4 | 62.0 | 53.1 | 39.5 | 24.2 | 49.6 | 94 | 9 | May 12 | Oct. 29 |
| Wabuska | 39.6 | 37.8 | 39.9 | 49.4 | 52.4 | 66.6 | 68.0 | 68.4 | 58.0 | 49.4 | 41.4 | 25.6 | 49.7 | 98 | 0 | May 29 | Sept. 12 |
| Wells | 31.1 | 33.4 | 37.8 | 46.0 | 53.7 | | 65.8 | 65.3 | 56.8 | 46.2 | 36.8 | 13.0 | 45.6 | 101 | −18 | | Sept. 14 |
| *Winnemucca | 36.9 | 35.2 | 39.4 | 45.8 | 51.6 | 65.0 | 68.2 | 69.6 | 58.8 | 50.0 | 40.2 | 23.5 | 48.7 | 100 | 1 | May 24 | Sept. 12 |

[1] All months.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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 Hampshire.* | | | | | | | | | | | | | | | | | |
| Alstead Center | 21.8 | 23.6 | 27.8 | 41.8 | 52.0 | 63.7 | 65.2 | 63.9 | 56.8 | 45.5 | 38.4 | 20.6 | 43.4 | 88 | −11 | May 3 | Oct. 13 |
| Bethlehem | 17.8 | 19.0 | 25.0 | 38.4 | 50.4 | 61.8 | 63.5 | 62.1 | 55.6 | 43.6 | 36.0 | 18.8 | 41.0 | 88 | −21 | May 3 | Sept. 19 |
| Brookline | 26.0 | 28.2 | 33.0 | 45.7 | 55.3 | 65.5 | 65.6 | 63.8 | 58.0 | 47.8 | 42.7 | 27.6 | 46.6 | ..... | ..... | ..... | ..... |
| *Concord | 23.5 | 25.4 | 31.8 | 43.8 | 53.2 | 65.8 | 67.0 | 65.6 | 59.0 | 47.5 | 40.8 | 24.6 | 45.7 | 94 | −14 | May 2 | Oct. 18 |
| Durham | 25.8 | 26.0 | 32.6 | 43.6 | 53.2 | 65.5 | 67.6 | 65.8 | 59.9 | 50.2 | 41.4 | 26.6 | 46.5 | 96 | − 7 | May 21 | Oct. 20 |
| *Franklin | 22.4 | 24.2 | 30.2 | 44.2 | 53.8 | 65.8 | 67.0 | 65.8 | 59.7 | 47.9 | 40.0 | 24.4 | 45.4 | 94 | −16 | May 26 | Sept. 20 |
| Grafton | 20.0 | 22.3 | 26.8 | 40.2 | 51.4 | 62.0 | 64.4 | 62.6 | 56.2 | 45.2 | 39.0 | 20.8 | 42.6 | 93 | −22 | June 8 | Aug. 31 |
| Hanover | 19.3 | 21.6 | 28.0 | 41.2 | 53.8 | 64.0 | 66.3 | 65.4 | 58.4 | 45.9 | 38.8 | 21.0 | 43.6 | 94 | −22 | May 27 | Sept. 19 |
| Keene | 23.7 | 26.5 | 30.8 | 44.3 | 54.4 | 64.5 | 66.3 | 64.8 | 58.6 | 46.6 | 40.6 | 23.1 | 45.4 | 95 | −15 | May 26 | Sept. 20 |
| Nashua | 25.0 | 27.0 | 33.8 | 46.0 | 55.8 | 68.2 | 70.0 | 68.0 | 60.8 | 48.8 | 41.3 | 25.6 | 47.5 | 96 | −13 | Apr. 29 | ..... |
| Newton | 25.0 | 27.0 | 32.4 | 43.2 | 52.4 | 64.2 | 66.8 | 64.3 | 58.3 | 47.8 | 41.0 | 25.7 | 45.7 | 93 | −12 | Apr. 29 | Sept. 20 |
| *Plymouth | 20.4 | 22.1 | 28.8 | 41.4 | 52.8 | 64.0 | 65.5 | 63.4 | 56.9 | 46.1 | 37.8 | 22.7 | 43.5 | 92 | −22 | May 26 | Sept. 19 |
| *New Jersey.* | | | | | | | | | | | | | | | | | |
| Asbury Park | 35.4 | 38.6 | 38.0 | 48.8 | 57.8 | 68.5 | 71.0 | 70.5 | 65.0 | 52.4 | 47.6 | 31.4 | 52.1 | 95 | 4 | [1]Apr. 12 | Oct. 17 |
| *Atlantic City | 37.1 | 39.7 | 39.3 | 49.1 | 58.6 | 68.2 | 71.8 | 70.9 | 66.0 | 53.2 | 48.2 | 31.6 | 52.8 | 92 | 7 | [1]Apr. 11 | Oct. 29 |
| Bayonne | 32.5 | 36.6 | 38.0 | 49.5 | 59.8 | 70.2 | 72.3 | 70.6 | 64.9 | 53.0 | 46.2 | 30.8 | 52.0 | 95 | 3 | Apr. 12 | Oct. 21 |
| Belvidere | 28.2 | 34.6 | 36.4 | 49.3 | 59.2 | 68.6 | 69.6 | 68.3 | 62.8 | 49.0 | 44.4 | 27.4 | 49.8 | 94 | − 5 | [1]May 3 | Oct. 14 |
| Bergen Point | 32.8 | 37.3 | 38.5 | 50.0 | 60.0 | 70.0 | 72.0 | 70.2 | 65.2 | 51.8 | 46.8 | 30.6 | 52.1 | 94 | 4 | Apr. 12 | Oct. 20 |
| Bridgeton | 36.5 | 42.0 | 41.4 | 53.9 | 63.2 | 73.0 | 74.2 | 72.2 | 66.5 | 52.8 | 48.0 | 31.2 | 54.6 | 99 | 2 | [1]Apr. 12 | Oct. 14 |
| *Cape May | 37.5 | 41.2 | 40.8 | 50.6 | 59.5 | 68.2 | 71.6 | 70.7 | 65.8 | 55.6 | 49.2 | 33.2 | 53.7 | 91 | 10 | [1]Apr. 11 | [1]Nov. 30 |
| Cape May C. H | 38.3 | 41.8 | 41.2 | 51.8 | 61.2 | 70.2 | 72.6 | 71.2 | 66.2 | [a]54.6 | ..... | ..... | ..... | 90 | 9 | [1]Apr. 11 | Oct. 29 |
| Charlotteburg | 29.6 | 34.1 | 34.8 | 46.6 | 56.4 | 66.9 | 67.7 | 66.3 | 60.2 | 48.6 | 44.2 | 27.0 | 48.5 | 97 | − 6 | May 3 | Oct. 13 |
| Clayton | 35.0 | 40.6 | 39.4 | 52.6 | 61.9 | 71.2 | 73.3 | 71.6 | 65.5 | 51.5 | 47.6 | 30.4 | 53.4 | 96 | 3 | [1]Apr. 12 | Oct. 13 |
| College Farm | ..... | 37.0 | 38.3 | 50.4 | 60.4 | 70.6 | 72.2 | 70.6 | 64.8 | 50.6 | 45.4 | 29.0 | ..... | 97 | − 2 | Apr. 25 | Oct. 14 |
| Dover | 29.0 | 33.9 | 34.6 | 46.3 | 57.2 | 67.3 | 68.6 | 66.8 | 60.0 | 47.4 | 43.4 | 26.6 | 48.4 | 94 | − 3 | Apr. 25 | Oct. 14 |
| Elizabeth | 33.0 | 37.0 | 39.8 | 51.8 | 62.0 | 72.2 | 73.6 | 71.6 | 65.4 | 52.2 | 47.0 | 30.8 | 53.0 | 98 | 1 | Apr. 11 | Oct. 14 |
| Englewood | 28.2 | 32.3 | ..... | ..... | 57.0 | ..... | 72.2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0 | ..... | ..... |
| Flemington | 31.8 | 37.4 | 39.0 | 50.5 | 60.4 | 70.2 | 72.0 | 71.4 | 64.4 | 51.2 | 45.7 | 29.5 | 52.0 | 98 | − 3 | Apr. 25 | [1]Oct. 13 |
| Friesburg | 35.4 | 41.2 | 39.6 | 52.2 | 61.7 | 70.8 | 72.0 | 71.1 | 65.7 | 51.7 | 47.6 | 30.4 | 53.8 | 96 | 2 | [1]Apr. 12 | Oct. 13 |
| Haddonfield | 34.4 | 40.2 | 39.4 | 52.2 | 61.7 | 71.4 | 73.2 | 71.4 | 65.8 | 51.5 | 47.2 | 30.5 | 53.2 | 97 | 4 | Apr. 12 | Oct. 20 |
| Hightstown | 33.8 | 39.2 | 38.8 | 51.0 | 60.6 | 70.4 | 72.5 | 70.5 | 64.6 | 50.9 | 46.4 | 29.8 | 52.4 | 98 | − 1 | Apr. 25 | Oct. 13 |
| Imlaystown | 33.2 | 39.5 | 38.6 | 51.6 | 61.4 | 71.4 | ..... | ..... | ..... | 51.6 | 46.2 | 29.3 | ..... | 98 | 0 | [1]Apr. 12 | Oct. 14 |
| Indian Mills | 36.0 | 41.7 | 38.9 | 52.5 | 61.3 | 71.0 | 72.0 | 70.6 | 64.5 | 51.0 | 47.3 | 29.4 | 53.0 | 97 | 3 | [1]Apr. 12 | Oct. 13 |
| Jersey City | 33.0 | 37.5 | 39.2 | 50.8 | 61.6 | 72.0 | 74.2 | 72.8 | 66.7 | 53.4 | 47.6 | 31.6 | 53.4 | 96 | 4 | Apr. 12 | Oct. 20 |
| Lakewood | ..... | ..... | 38.2 | 50.6 | 59.4 | 69.2 | 72.1 | 69.1 | ..... | ..... | ..... | ..... | ..... | 97 | ..... | ..... | ..... |
| Lambertville | 33.0 | 38.6 | 39.0 | 51.1 | 60.4 | 70.2 | 71.8 | 70.4 | 64.2 | 50.3 | 46.4 | 29.6 | 52.1 | 96 | 0 | Apr. 25 | Oct. 14 |
| Layton | 27.6 | 33.3 | 33.6 | 46.6 | 56.5 | 66.4 | 67.0 | 66.0 | 60.3 | 47.0 | 42.6 | 24.4 | 47.6 | 97 | −15 | [1]May 12 | Sept. 29 |
| Long Branch | 35.6 | 39.2 | 38.8 | 50.0 | 59.8 | 69.6 | 71.8 | 70.6 | 66.2 | 52.8 | 48.0 | 31.8 | 52.8 | 91 | 4 | [1]Apr. 12 | Oct. 21 |
| Moorestown | 34.4 | 40.4 | 39.3 | 51.8 | 61.1 | 70.6 | 73.2 | 71.4 | 65.6 | 51.8 | 47.2 | 30.4 | 53.1 | 96 | 4 | Apr. 12 | Oct. 14 |
| Newark | 32.6 | 37.2 | 38.8 | 50.6 | 60.7 | 71.8 | 73.6 | 71.0 | 65.4 | 52.8 | 47.4 | 31.3 | 52.8 | 95 | 1 | [1]Apr. 11 | Oct. 20 |
| New Brunswick | 32.4 | 37.8 | 38.2 | 50.2 | 59.9 | 70.2 | 71.2 | 69.8 | 64.8 | 50.2 | ..... | [b]29.5 | ..... | 98 | 0 | Apr. 25 | [1]Oct. 14 |
| Newton | 28.8 | 33.8 | 35.1 | 46.8 | 58.2 | 67.9 | 69.3 | 68.3 | 62.8 | 49.1 | 44.0 | 26.8 | 49.2 | 96 | − 9 | [1]Apr. 25 | Oct. 13 |
| Oceanic | 35.0 | 39.4 | 39.0 | 50.2 | 59.6 | 70.0 | 71.9 | 70.4 | 65.5 | 52.3 | [a]48.3 | 31.8 | 52.8 | 96 | 5 | Apr. 12 | Oct. 14 |
| Paterson | 32.0 | 36.6 | 38.7 | 50.4 | 60.5 | 70.8 | 72.6 | 70.0 | 64.1 | 52.0 | 46.0 | 30.4 | 52.0 | 97 | 2 | Apr. 25 | Oct. 14 |
| *Phillipsburg | 29.6 | 36.0 | 36.8 | 50.0 | 61.6 | 69.9 | 71.6 | 70.0 | 64.5 | 50.0 | 45.6 | 28.4 | 51.2 | 97 | − 4 | Apr. 25 | Oct. 14 |
| Plainfield | 31.6 | 36.7 | 38.2 | 50.0 | 59.8 | 69.6 | 71.6 | 70.2 | 64.2 | 50.1 | 45.8 | 29.8 | 51.5 | 99 | 0 | [1]Apr. 25 | [1]Oct. 13 |
| Rivervale | 29.2 | 33.7 | 36.0 | 46.8 | 57.7 | 67.5 | 67.3 | 68.6 | ..... | [c]49.0 | [c]44.6 | *27.0 | ..... | 96 | − 4 | Apr. 25 | Oct. 13 |
| Somerville | 31.9 | 37.5 | 38.6 | 50.5 | 60.6 | 71.1 | 72.4 | 71.4 | 65.2 | 50.4 | 45.8 | 29.0 | 52.0 | 100 | 0 | Apr. 25 | Oct. 13 |
| South Orange | 30.5 | 36.2 | 37.3 | 48.6 | 59.2 | 68.6 | 70.8 | 68.8 | 62.7 | 50.0 | 45.4 | 29.6 | 50.6 | 93 | 2 | Apr. 25 | Oct. 14 |
| Sussex | 28.9 | 34.2 | 35.8 | 48.3 | 60.6 | 67.0 | 69.2 | 68.0 | 62.4 | [b]47.1 | 44.0 | 27.1 | 49.4 | 95 | − 6 | Apr. 25 | Oct. 13 |
| *Trenton | 35.6 | 40.2 | 39.9 | 52.0 | 61.4 | 70.7 | 72.5 | 71.0 | 65.4 | 52.9 | 49.2 | 34.4 | 53.8 | 94 | 1 | Apr. 25 | Oct. 13 |
| Tuckerton | 36.4 | 39.4 | 39.6 | 50.6 | 60.0 | 70.2 | 71.4 | 70.3 | 64.8 | 51.6 | 47.1 | 30.8 | 52.7 | 95 | 5 | Apr. 11 | Oct. 13 |
| Vineland | 36.8 | 41.2 | 39.8 | 52.5 | 62.1 | 72.2 | 72.2 | 71.4 | 65.4 | 52.1 | 47.3 | 30.2 | 53.6 | 97 | 1 | [1]Apr. 12 | Oct. 13 |
| Woodbine | 37.6 | ..... | 40.2 | ..... | ..... | 70.6 | 71.5 | [b]70.1 | 64.8 | ..... | 47.1 | [b]32.0 | ..... | 93 | 6 | ..... | ..... |
| *New Mexico.* | | | | | | | | | | | | | | | | | |
| Agricultural College | 47.9 | 45.1 | 49.4 | 58.7 | 64.8 | 78.3 | 81.2 | 79.0 | 71.4 | 62.1 | 52.2 | 38.0 | 60.7 | 106 | 3 | Apr. 8 | Oct. 10 |
| Alamogordo (near) | 49.0 | 46.2 | 48.8 | 59.1 | 65.5 | 78.4 | 80.2 | 77.2 | 70.3 | 63.6 | [a]57.9 | 38.2 | 61.2 | 108 | 0 | Apr. 9 | Oct. 9 |
| Albert | 43.9 | 42.6 | 56.4 | 53.6 | 60.6 | 74.0 | 79.4 | 77.5 | 68.7 | 57.8 | 49.8 | 30.4 | 57.9 | 106 | 3 | May 1 | Nov. 16 |
| *Albuquerque | ..... | ..... | [b]48.9 | [a]59.0 | [a]63.8 | 75.8 | [a]79.6 | ..... | [b]67.1 | 59.4 | 51.2 | ..... | ..... | 100 | ..... | May 1 | Nov. 16 |
| Arch (near) | ..... | ..... | ..... | 52.0 | 57.9 | [b]70.4 | ..... | ..... | [b]66.4 | [c]59.8 | [b]51.0 | ..... | ..... | 101 | ..... | June 8 | Oct. 23 |
| Bell Ranch | 41.3 | [b]41.2 | 43.8 | 55.1 | 61.4 | 75.8 | 79.7 | 78.3 | 67.6 | 57.3 | 48.6 | 32.1 | 56.8 | 106 | − 7 | May 1 | Oct. 24 |
| Blackrock | ..... | 36.4 | 39.8 | 48.8 | 54.3 | 67.4 | 71.8 | 69.9 | 61.6 | 53.4 | 42.0 | 22.8 | ..... | 100 | −21 | May 15 | Oct. 8 |
| Bloomfield | 34.8 | 34.2 | 40.2 | 48.7 | 55.5 | 68.8 | 77.4 | [a]73.6 | [d]61.6 | 51.5 | 39.8 | 17.2 | 50.3 | 102 | −18 | May 31 | Sept. 23 |
| Bluewater | 35.8 | 32.4 | 35.2 | 44.8 | 51.5 | 63.9 | 70.4 | 66.6 | ..... | ..... | 38.6 | 22.5 | ..... | 94 | −17 | May 31 | ..... |
| Boaz | ..... | ..... | ..... | [c]55.6 | 63.0 | 74.8 | 78.0 | 75.0 | 67.6 | 56.3 | 50.4 | 32.6 | ..... | 104 | − 9 | May 2 | Oct. 10 |
| *Carlsbad | 50.6 | 50.6 | 56.2 | 65.0 | 69.6 | 80.0 | 82.0 | 79.0 | 71.8 | 63.2 | 57.2 | 39.6 | 63.7 | 110 | 0 | May 1 | Nov. 1 |
| Carrizozo | 41.2 | 39.8 | 43.2 | 51.2 | 59.4 | 73.0 | 75.5 | 72.4 | 65.4 | ..... | ..... | ..... | ..... | 101 | ..... | May 4 | ..... |
| Chama | 26.2 | 21.8 | 29.3 | 39.4 | 46.8 | 60.6 | 66.0 | 64.1 | 55.0 | 47.0 | 36.4 | 15.5 | 42.3 | 90 | −16 | June 1 | Sept. 1 |
| Cimarron (near) | 38.8 | 35.3 | 38.0 | 46.2 | 52.8 | 64.2 | 69.4 | 67.2 | 59.1 | 50.7 | 44.1 | 22.0 | 49.0 | 92 | −16 | May 26 | Oct. 9 |
| Clayton | [a]41.6 | 36.6 | 41.0 | 52.4 | 58.2 | 69.8 | 76.4 | 74.3 | 65.0 | 55.4 | 46.2 | 29.4 | 53.9 | 98 | − 1 | May 2 | Oct. 9 |
| Cliff | 46.2 | [b]43.6 | 46.8 | 54.9 | 60.1 | 72.4 | 78.7 | 78.7 | [a]68.2 | 56.7 | 46.6 | 36.3 | 57.5 | 107 | 3 | May 21 | Oct. 8 |
| Cloudcroft | ..... | ..... | 32.1 | 42.4 | 47.0 | 57.6 | ..... | ..... | [a]49.6 | 47.0 | 38.4 | 24.0 | ..... | 79 | 0 | June 1 | Sept. 26 |
| Cuervo | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 59.4 | 52.2 | 33.3 | ..... | ..... | ..... | ..... | Nov. 13 |
| Deming | 45.8 | 43.0 | 48.2 | 58.6 | 64.0 | [d]78.6 | 81.2 | 74.4 | 70.2 | 62.5 | 52.0 | 37.0 | 59.6 | 110 | 9 | Apr. 23 | Oct. 9 |
| Dorsey (near) | 39.4 | ..... | [a]36.0 | [b]48.4 | 56.3 | [c]66.5 | [c]72.0 | ..... | ..... | ..... | ..... | ..... | ..... | 95 | ..... | May 1 | ..... |
| Duke | ..... | ..... | [a]34.7 | 43.4 | ..... | 60.0 | 69.2 | 67.2 | [b]57.2 | [a]46.4 | ..... | ..... | ..... | 94 | −25 | June 20 | Sept. 23 |
| Duran | 44.4 | 39.6 | 42.5 | 50.8 | 58.6 | 69.0 | 73.4 | 70.1 | 61.4 | 54.8 | 52.2 | ..... | ..... | 100 | ..... | May 2 | Sept. 27 |
| Elizabethtown | 27.6 | 21.6 | 28.8 | 36.6 | *47.4 | 53.2 | 59.0 | 57.6 | 49.4 | 41.1 | 32.4 | 14.1 | 39.1 | 85 | −33 | June 23 | Sept. 14 |
| Elk (near) | 43.8 | 40.6 | 42.0 | 52.3 | 56.8 | 67.0 | 68.8 | [a]67.6 | [a]61.9 | ..... | ..... | 36.0 | ..... | 98 | − 5 | May 2 | Oct. 27 |
| *Espanola | 35.0 | 34.4 | [a]38.8 | 48.0 | 55.9 | 68.8 | 74.9 | ..... | 62.6 | [a]52.4 | [a]42.2 | 26.2 | ..... | 99 | − 1 | May 31 | Oct. 10 |
| Estancia | ..... | ..... | ..... | ..... | ..... | [a]67.9 | [a]71.3 | 72.9 | 64.2 | 50.0 | [b]42.6 | 18.6 | ..... | 102 | −33 | ..... | Oct. 9 |
| Fort Bayard | 44.6 | 40.0 | 43.6 | 54.0 | 58.8 | 71.2 | 74.0 | 71.0 | 66.6 | 58.5 | 48.4 | 34.5 | 55.4 | 99 | 12 | Apr. 24 | Oct. 8 |
| *Fort Stanton | 42.7 | 38.6 | 40.5 | 50.5 | 55.6 | 67.0 | 70.3 | 67.8 | 60.1 | 52.8 | 45.6 | 32.2 | 52.0 | 94 | −16 | May 5 | Sept. 26 |
| Fort Sumner | ..... | ..... | ..... | ..... | ..... | 78.8 | 79.2 | 77.2 | 69.0 | ..... | ..... | ..... | ..... | 105 | −11 | ..... | ..... |
| Fort Union | 38.2 | [c]31.6 | 34.8 | 43.4 | 48.8 | [a]61.6 | 67.2 | 64.8 | 55.8 | 48.0 | 43.7 | 25.7 | 47.0 | 91 | −15 | May 31 | Sept. 14 |
| Fort Wingate | [c]36.6 | 34.4 | 38.2 | 47.2 | 54.3 | 65.6 | 70.0 | 65.5 | 58.4 | 52.0 | 41.6 | 24.4 | 49.0 | 92 | −11 | May 15 | Sept. 13 |

[1] Minimum temperature 32°, or lower.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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 Mexico*—Contd. | | | | | | | | | | | | | | | | | |
| Frisco | 41.0 | 38.7 | 41.4 | 49.9 | ..... | m71.4 | 74.4 | 71.5 | 67.1 | ..... | ..... | o21.2 | ..... | 105 | −15 | May 13 | ..... |
| Fruitland | 33.9 | 34.1 | 39.6 | l46.2 | 54.8 | 68.8 | 73.4 | 74.0 | 63.8 | 52.5 | 40.2 | 18.0 | 49.9 | 103 | −17 | May 26 | Sept. 23 |
| Gage | 47.4 | 44.4 | 50.0 | 58.7 | 68.8 | 78.6 | 79.6 | 75.7 | 70.0 | 65.1 | 51.4 | ..... | ..... | 105 | ..... | Mar. 18 | Nov. 1 |
| Gallinas Planting Sta | b38.3 | 32.8 | 35.3 | 44.0 | a49.4 | 61.4 | 66.1 | 63.8 | 57.6 | a49.2 | 42.8 | 28.8 | 47.5 | 89 | −10 | May 31 | Sept. 13 |
| Hayden | ..... | ..... | ..... | ..... | 62.6 | 71.7 | 77.2 | 78.4 | 66.2 | 53.2 | 48.4 | 28.6 | ..... | 98 | − 6 | May 8 | Oct. 21 |
| Hillsboro | 46.7 | 42.8 | 46.8 | 56.0 | 63.2 | 75.0 | p77.8 | 75.0 | e68.0 | b61.8 | 51.2 | 34.4 | 58.2 | 102 | 2 | Apr. 10 | Nov. 13 |
| Hondo Reservoir | 46.6 | 45.6 | 48.3 | 59.4 | 65.9 | 76.8 | 79.6 | 76.6 | 68.8 | 59.8 | 53.2 | 35.4 | 59.7 | 107 | −14 | May 2 | Oct. 10 |
| Hopewell | ..... | ..... | ..... | ..... | ..... | ..... | ..... | e56.4 | 47.9 | 40.4 | 28.8 | 13.0 | ..... | 76 | −23 | ..... | Sept. 13 |
| Laguna | 38.8 | 36.0 | a38.2 | 51.2 | 58.0 | 70.8 | 75.6 | 71.6 | 63.0 | e54.2 | 44.2 | a23.8 | 52.1 | 101 | −20 | May 13 | Oct. 9 |
| Lagunita | l42.6 | 41.0 | 42.0 | e53.4 | e61.6 | 73.0 | e77.5 | 75.0 | 65.4 | 54.5 | 50.4 | 32.4 | 55.7 | 100 | −14 | Apr. 29 | Oct. 23 |
| *Las Vegas | 40.3 | 36.2 | 41.1 | 50.1 | 55.8 | 68.1 | 72.0 | 68.6 | 61.0 | 51.6 | 44.6 | 27.6 | 51.4 | 99 | −15 | May 26 | Sept. 23 |
| *Logan | 42.2 | 43.4 | b47.1 | 55.7 | 63.0 | 76.6 | 80.7 | 78.8 | 69.9 | a58.0 | 51.2 | a31.0 | 58.1 | 105 | − 7 | Apr. 30 | Oct. 27 |
| Lordsburg | 48.8 | 47.2 | 50.4 | 61.3 | ..... | 78.0 | 80.8 | 78.4 | 71.9 | 62.0 | 51.2 | 39.0 | ..... | 105 | 3 | Mar. 24 | Oct. 31 |
| Los Lunas (near) | 38.0 | 38.6 | 42.5 | 52.6 | 59.4 | 72.4 | 78.4 | 75.0 | 65.2 | 54.4 | 43.5 | 24.6 | 53.7 | 103 | −25 | May 4 | Oct. 9 |
| Luna | e38.5 | a31.4 | 34.0 | ..... | 49.0 | 60.4 | 66.4 | 63.3 | 55.7 | 45.6 | 37.0 | 24.7 | ..... | 93 | −26 | June 11 | Sept. 13 |
| Magdalena | 40.5 | 37.4 | 40.8 | 51.4 | 58.1 | 69.6 | 72.6 | 68.0 | 60.9 | 54.2 | 43.4 | 26.1 | 51.9 | 102 | −21 | May 12 | Sept. 26 |
| Manuelito | 37.4 | 33.4 | 37.6 | 45.7 | 52.1 | 62.0 | 68.4 | 70.8 | 63.9 | 54.7 | a43.8 | 19.2 | 49.1 | 100 | −24 | June 15 | Sept. 24 |
| Melrose | 42.5 | 42.0 | 44.2 | 54.6 | e61.6 | 75.1 | 78.0 | 76.0 | 66.8 | 57.1 | 50.4 | 31.3 | 56.6 | 104 | −12 | May 1 | Oct. 12 |
| Miami Ranch | a39.1 | c37.2 | a37.0 | 45.8 | 51.8 | 64.5 | b70.6 | b67.6 | b58.8 | 50.6 | a44.2 | a21.6 | 49.1 | 94 | −20 | May 16 | Sept. 23 |
| Monument | 47.5 | 47.0 | 58.9 | b69.6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Mountainair | a42.4 | a36.4 | 38.4 | 49.8 | 57.2 | 70.2 | 72.4 | 69.2 | 62.0 | 54.4 | 43.6 | 26.0 | 51.8 | 98 | − 8 | May 2 | Oct. 8 |
| Nara Visa | e42.6 | a43.4 | f40.3 | a52.5 | 60.6 | e71.8 | 77.8 | a79.4 | b66.6 | 57.6 | 49.8 | 30.6 | 56.1 | 103 | 2 | May 1 | Nov. 13 |
| *Raton | 39.8 | 37.3 | 38.9 | 45.4 | 53.0 | 65.0 | 71.3 | 68.2 | 60.0 | 52.2 | 44.6 | 26.7 | 50.2 | 96 | − 6 | May 26 | Sept. 23 |
| Red River Canyon | ..... | ..... | ..... | ..... | ..... | ..... | ..... | d59.8 | 50.6 | 41.5 | 32.6 | 14.6 | ..... | 86 | −27 | ..... | Sept. 7 |
| Rincon | 48.2 | 45.8 | 49.5 | 58.7 | 65.2 | 77.4 | 80.8 | 78.0 | 70.8 | 61.4 | 52.4 | 38.6 | 60.6 | 106 | 6 | Apr. 10 | Oct. 10 |
| Rio Grande Dam | 47.4 | 45.5 | 48.6 | 59.5 | 65.7 | 78.2 | 81.4 | 79.2 | 70.7 | e61.0 | 51.8 | 34.4 | 60.3 | 106 | − 3 | Apr. 10 | Nov. 1 |
| Rociada | 36.6 | 31.4 | 33.2 | 42.4 | 48.3 | 59.5 | 63.8 | 62.0 | 54.6 | 46.2 | 39.0 | 24.5 | 45.1 | 85 | −17 | June 9 | Sept. 13 |
| Rosedale | 41.8 | 37.4 | 39.2 | 50.0 | 56.2 | 68.0 | 70.6 | 67.2 | 60.6 | 54.2 | 45.0 | 29.8 | 51.7 | 93 | − 4 | May 1 | Oct. 9 |
| *Roswell | 44.4 | 44.9 | 47.4 | 58.9 | 65.4 | 76.0 | 79.0 | 76.2 | 68.3 | 57.5 | 52.0 | 34.2 | 58.7 | 105 | −10 | May 2 | Oct. 10 |
| San Jon | 44.4 | 44.0 | 46.4 | 56.7 | 62.4 | 76.4 | 80.4 | 78.8 | 68.4 | 59.4 | 51.8 | 31.4 | 58.4 | 104 | − 9 | May 9 | Oct. 12 |
| *San Marcial | 44.2 | 44.1 | 46.8 | 57.2 | 64.6 | 76.0 | 79.2 | 76.8 | 68.4 | 58.4 | 48.6 | 32.1 | 58.0 | 101 | − 8 | May 1 | Oct. 10 |
| San Rafael | 42.9 | b38.8 | 39.1 | e49.6 | 57.2 | 68.2 | 75.0 | 69.8 | 63.4 | 54.6 | 47.8 | 26.8 | 52.8 | 100 | −14 | May 15 | Oct. 9 |
| *Santa Fe | 35.0 | 31.0 | 36.6 | 44.1 | 51.8 | 65.8 | 69.8 | 66.8 | 59.1 | 50.0 | 41.0 | 21.9 | 47.7 | 91 | − 6 | May 1 | Oct. 9 |
| *Santa Rosa | 44.6 | 42.3 | 45.2 | 54.6 | 61.8 | 75.6 | 78.6 | 77.6 | 68.1 | 58.7 | 51.2 | 33.4 | 57.6 | 103 | −12 | May 2 | Oct. 27 |
| Solano | ..... | ..... | ..... | e55.8 | 58.4 | 69.2 | 73.8 | 72.4 | 63.2 | 52.2 | 45.6 | 24.5 | ..... | 98 | − 5 | May 9 | Oct. 9 |
| Socorro | 47.0 | a44.0 | 47.5 | 57.0 | 61.7 | 75.2 | 77.8 | a76.1 | 68.2 | 58.7 | a49.0 | 26.7 | 57.4 | 102 | −16 | May 1 | Oct. 8 |
| *Springer | 37.9 | b34.0 | 36.6 | 46.2 | 54.6 | 68.9 | ..... | 73.4 | a60.2 | a50.0 | 41.4 | 20.3 | ..... | 104 | −21 | May 9 | Sept. 14 |
| Stanley | ..... | ..... | 35.8 | 45.5 | a50.4 | 64.7 | 70.6 | 67.7 | 58.0 | a48.8 | a40.3 | 20.8 | ..... | 97 | −25 | May 31 | Sept. 23 |
| Taos | a32.8 | a31.2 | 38.7 | e49.2 | ..... | ..... | ..... | e65.2 | 59.0 | 49.6 | 39.5 | 23.4 | ..... | ..... | −19 | ..... | Oct. 9 |
| Tres Piedras | 24.8 | d23.2 | 31.2 | 37.2 | 44.4 | 59.1 | 67.0 | 64.1 | 56.9 | 47.0 | 35.4 | 15.9 | 42.2 | 90 | −23 | June 10 | Sept. 14 |
| Truchas | ..... | ..... | ..... | a37.3 | a49.6 | 66.6 | ..... | 63.1 | 53.3 | 44.1 | 40.4 | ..... | ..... | 86 | ..... | May 8 | Sept. 13 |
| *Tucumcari | 45.5 | 45.3 | 47.9 | 57.4 | 63.8 | 76.6 | 81.0 | 79.4 | 71.1 | 60.4 | 52.8 | 33.4 | 59.6 | 105 | − 3 | May 1 | Nov. 16 |
| Tularosa | 49.5 | 46.4 | 49.4 | 58.6 | 64.9 | 77.2 | d78.8 | 76.6 | 69.7 | d62.4 | 53.8 | b38.0 | 60.4 | 104 | 4 | Apr. 9 | Nov. 29 |
| Vermejo Park | 35.2 | 29.0 | 33.8 | 40.7 | 46.4 | 59.0 | 64.4 | 60.8 | f56.4 | 46.8 | 39.8 | 22.2 | 44.5 | 91 | −17 | May 31 | Sept. 14 |
| Wagon Mound | ..... | 33.4 | 36.4 | 45.4 | 52.1 | 65.8 | 70.6 | 68.2 | 58.3 | 49.8 | 42.9 | 21.6 | ..... | 96 | −22 | May 15 | Sept. 23 |
| Winsors | 32.8 | 26.2 | 30.1 | 37.8 | 43.9 | 57.7 | 63.2 | 62.8 | 53.5 | 42.4 | 37.0 | 22.8 | 42.5 | 90 | −18 | June 13 | Sept. 13 |
| *New York.* | | | | | | | | | | | | | | | | | |
| Adams Center | 23.8 | 23.8 | 29.0 | 43.1 | 54.2 | 67.3 | 68.5 | 67.8 | 60.8 | 47.5 | 42.8 | 25.0 | 46.1 | 90 | −18 | May 3 | Oct. 20 |
| Addison | 28.1 | 32.0 | 32.7 | 46.2 | 57.3 | 67.1 | 70.4 | 68.6 | 61.8 | 47.1 | 46.4 | 26.6 | 48.7 | 102 | −14 | May 12 | Sept. 28 |
| *Albany | 25.6 | 28.4 | 32.9 | 45.4 | 57.8 | 68.7 | 70.8 | 69.1 | 62.2 | 49.5 | 42.6 | 26.3 | 48.3 | 95 | −12 | Apr. 29 | Oct. 13 |
| Allegany | 28.6 | 29.6 | 30.2 | 44.1 | 56.2 | 65.2 | 65.4 | 65.8 | 59.8 | 45.2 | 43.2 | 29.5 | 46.9 | 95 | −11 | May 5 | Sept. 29 |
| Amsterdam | 24.2 | 28.2 | 28.2 | 43.0 | 55.3 | 66.4 | 67.4 | 66.4 | 59.7 | 47.0 | 40.0 | 22.0 | 45.2 | 92 | −14 | Apr. 29 | Oct. 13 |
| Angelica | 26.9 | 28.1 | 28.8 | 42.6 | 53.8 | b63.8 | 64.9 | 63.4 | 57.4 | 42.2 | 42.0 | 24.0 | 44.8 | 91 | −17 | May 12 | Sept. 6 |
| Appleton | 28.7 | 29.6 | 31.3 | 42.9 | 53.4 | 65.2 | 68.9 | 68.6 | 60.6 | 46.6 | 45.4 | 27.4 | 47.2 | 96 | − 2 | Apr. 29 | Oct. 20 |
| Athens | 26.4 | 30.2 | 33.1 | 46.0 | 57.4 | 67.4 | 70.2 | 67.8 | 62.4 | 50.0 | 43.4 | 25.8 | 48.3 | 93 | −13 | Apr. 29 | Oct. 13 |
| Auburn | 27.0 | 27.8 | 30.3 | 43.8 | 56.0 | 65.8 | 68.0 | 67.4 | 61.0 | 47.4 | 43.9 | 25.0 | 47.0 | 95 | − 5 | Apr. 29 | Oct. 29 |
| Avon | 28.0 | 28.4 | 30.4 | 43.2 | 54.1 | 65.8 | 67.8 | 67.1 | 60.4 | 46.1 | 44.0 | 24.8 | 46.7 | 93 | −10 | May 2 | Oct. 20 |
| Ballston Lake | 22.9 | 25.1 | 29.2 | 42.7 | a55.4 | 64.6 | 66.6 | 65.0 | 58.6 | 46.4 | 39.4 | 21.0 | 44.7 | 91 | −23 | May 3 | Oct. 13 |
| Bedford | 30.6 | 34.8 | 36.6 | 49.9 | 60.5 | 70.8 | 72.6 | 70.2 | 64.0 | 51.8 | 46.8 | 28.9 | 51.5 | 99 | − 4 | Apr. 20 | Oct. 20 |
| Benson Mines | 17.3 | 18.6 | 20.2 | 38.8 | 51.2 | 61.0 | 63.8 | 62.8 | a56.1 | 50.2 | ..... | ..... | ..... | 89 | −34 | May 26 | Sept. 8 |
| *Binghamton | 26.8 | 31.2 | 31.0 | 43.6 | 56.2 | 65.8 | 67.4 | 65.6 | 59.6 | 46.5 | 43.0 | 25.3 | 46.8 | 94 | −11 | Apr. 25 | Oct. 13 |
| Bolivar | 27.8 | 30.0 | 30.3 | 44.2 | 56.2 | b65.2 | 65.2 | 65.4 | 59.3 | 43.7 | 43.7 | 23.6 | 46.2 | 96 | −14 | May 25 | Sept. 28 |
| Bouckville | 22.8 | 25.0 | 26.0 | 40.9 | 53.0 | 63.2 | 65.3 | 64.7 | 58.1 | 44.4 | 39.6 | 21.0 | 43.7 | 90 | −17 | May 12 | Oct. 13 |
| Brockport | 29.2 | 28.3 | 30.6 | 44.6 | 55.7 | ..... | e69.3 | 68.6 | 61.3 | 47.1 | 44.8 | 26.3 | ..... | 90 | − 1 | Apr. 28 | Oct. 14 |
| *Buffalo | 28.7 | 29.6 | 30.3 | 41.7 | 53.8 | 64.6 | 68.6 | 69.4 | 61.7 | 47.9 | 44.8 | 26.6 | 47.3 | 88 | − 1 | Apr. 28 | Oct. 20 |
| *Canton | 18.3 | 20.4 | 25.0 | 39.8 | 53.3 | 64.2 | 66.0 | 66.0 | 57.3 | 45.4 | 37.2 | 19.8 | 42.7 | 90 | −23 | Apr. 29 | Oct. 18 |
| Cape Vincent | 20.8 | 22.4 | 26.9 | 39.9 | 51.6 | 62.8 | 66.4 | 67.2 | 59.3 | 46.5 | 39.6 | 24.0 | 44.0 | 84 | −11 | Apr. 28 | Oct. 19 |
| Carmel | 26.4 | 30.4 | 33.3 | 45.9 | 57.3 | 69.0 | 70.4 | 66.5 | 60.5 | 47.6 | 42.2 | 24.7 | 47.8 | 92 | − 6 | Apr. 29 | Oct. 14 |
| Carvers Falls | 21.8 | 22.6 | 28.8 | 42.8 | 54.6 | 64.6 | 66.6 | 65.5 | 57.7 | 46.5 | 38.8 | 21.4 | 44.3 | 93 | −34 | May 12 | Oct. 20 |
| Chatham | 25.6 | 29.2 | 31.3 | 45.3 | 57.0 | 66.3 | 68.4 | 66.7 | 60.9 | 48.0 | 42.3 | 24.1 | 47.2 | 92 | −18 | Apr. 29 | Oct. 13 |
| Chazy | 18.2 | 19.7 | 26.8 | 41.2 | 56.0 | 64.6 | 67.0 | 67.9 | 59.0 | 48.4 | 38.2 | 21.6 | 44.0 | 94 | −27 | Apr. 29 | Oct. 20 |
| Cooperstown | 23.4 | 25.6 | 26.6 | 41.6 | 54.0 | 63.4 | 64.8 | 63.4 | 57.0 | 43.9 | 39.8 | 22.2 | 43.8 | 86 | −16 | Apr. 27 | Oct. 13 |
| *Cortland | 24.2 | 27.9 | 28.0 | 43.4 | 55.4 | 65.4 | 66.8 | 66.3 | 59.4 | 46.0 | 39.9 | 21.6 | 45.4 | 93 | −15 | May 4 | Oct. 13 |
| Cutchogue | 32.3 | 36.4 | 36.9 | 46.1 | 56.2 | 66.4 | 70.6 | 69.4 | 63.8 | 53.4 | 46.2 | 31.2 | 50.7 | 93 | 4 | Apr. 25 | Oct. 20 |
| Dannemora | 18.2 | 18.0 | 24.8 | 38.2 | 52.0 | 64.2 | 65.9 | 65.4 | 58.0 | 44.6 | 36.6 | 18.6 | 42.0 | 90 | −16 | May 4 | Oct. 13 |
| De Ruyter | 24.0 | 27.4 | 27.6 | 41.0 | 53.4 | 62.6 | 66.0 | 65.5 | 59.4 | 45.6 | 41.4 | 23.8 | 44.8 | 95 | −19 | May 4 | Oct. 8 |
| Elba | 27.6 | 26.7 | 29.8 | 42.4 | 53.7 | 64.5 | 67.2 | 66.4 | 59.0 | 43.4 | 42.4 | 24.4 | 45.6 | 89 | − 9 | May 4 | Oct. 13 |
| Elmira | 29.6 | 33.4 | 33.6 | 47.4 | 59.2 | 68.6 | 69.9 | 69.6 | 62.7 | 48.6 | 45.9 | 27.3 | 49.6 | 98 | −10 | Apr. 29 | Oct. 13 |
| Fayetteville | 26.8 | 29.0 | 30.7 | 45.1 | 56.8 | 66.4 | 68.8 | 69.6 | 61.0 | 48.6 | 43.8 | 24.5 | 47.6 | 97 | −18 | Apr. 29 | Oct. 13 |
| Fort Plain | 25.0 | 27.4 | 31.0 | 46.4 | 58.7 | 67.2 | 69.6 | 68.7 | 61.2 | 48.2 | 42.2 | 25.4 | 47.6 | 93 | −13 | May 3 | Oct. 13 |
| Franklinville | 25.8 | 27.6 | k28.2 | 42.2 | 53.6 | 64.7 | 64.7 | 65.0 | 58.6 | 43.2 | 43.2 | 22.7 | 45.0 | 91 | −14 | May 12 | Sept. 28 |
| Gabriels | 16.4 | 17.6 | 20.8 | 37.3 | 50.8 | 60.4 | 62.6 | 61.4 | 54.6 | 42.0 | a36.4 | 17.0 | 39.8 | 90 | −34 | June 8 | Sept. 8 |
| *Glens Falls | 23.3 | 25.2 | 29.8 | 44.3 | 56.6 | 67.6 | 68.8 | 67.4 | 59.8 | 48.0 | 40.5 | 22.5 | 46.2 | 93 | −20 | May 3 | Oct. 13 |
| Gloversville | 20.5 | 22.6 | 26.2 | 40.4 | 54.2 | 64.0 | 65.6 | 64.4 | 57.3 | 44.6 | 38.5 | 21.2 | 43.3 | 90 | −18 | Apr. 29 | Sept. 29 |
| Greenfield Center | 22.8 | 23.9 | 29.1 | 43.0 | 56.0 | 65.6 | 67.2 | 66.4 | 59.5 | 45.9 | 39.5 | 22.0 | 45.9 | 92 | −17 | Apr. 29 | Oct. 13 |
| *Griffin Corners | 25.0 | 29.0 | 27.2 | 41.8 | 52.4 | 62.2 | 63.1 | 62.6 | 57.1 | 44.2 | 39.8 | 21.3 | 43.8 | 91 | −12 | May 24 | Sept. 19 |
| Harkness | 20.2 | 20.0 | 26.2 | a39.8 | 53.4 | 64.7 | 67.0 | 66.0 | 58.2 | 46.8 | 38.6 | 21.2 | 43.5 | 92 | −19 | May 3 | Oct. 18 |
| Hemlock Lake | 27.4 | 28.6 | 30.2 | 42.0 | 54.0 | 65.8 | 67.8 | 67.2 | 60.4 | 46.2 | 42.8 | 25.1 | 46.5 | 89 | − 7 | Apr. 29 | Oct. 20 |
| Hunt | 29.2 | 32.0 | 33.0 | 44.4 | 55.2 | 67.3 | 67.8 | 67.7 | 62.2 | 46.6 | 45.6 | 26.4 | 48.1 | 96 | −13 | Apr. 29 | Oct. 19 |
| Indian Lake | 19.2 | 20.9 | 23.2 | 37.9 | 51.9 | 61.1 | 63.3 | 62.2 | 55.2 | 43.2 | 35.4 | 18.0 | 41.0 | 99 | −35 | June 8 | Sept. 8 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *New York*—Contd. | | | | | | | | | | | | | | | | | |
| *Ithaca | 27.9 | 30.8 | 31.6 | 43.3 | 55.7 | 66.4 | 68.7 | 67.3 | 60.2 | 46.7 | 44.0 | 26.1 | 47.4 | 95 | − 8 | Apr. 25 | Oct. 13 |
| Jeffersonville | 25.0 | 30.1 | 31.4 | 44.7 | 55.4 | 65.0 | 65.2 | 64.4 | 59.4 | 46.2 | 41.2 | 23.5 | 46.0 | 95 | −11 | May 3 | Sept. 29 |
| Keene Valley | ..... | 22.6 | 29.6 | 41.0 | 54.6 | 64.6 | 65.2 | 64.6 | 57.6 | 45.0 | 37.8 | 19.5 | ..... | 92 | −15 | May 26 | Sept. 8 |
| Keuka Park | 28.1 | 29.8 | 31.2 | 44.7 | 56.0 | 65.8 | 69.3 | 69.1 | 61.8 | 47.4 | 44.5 | ..... | ..... | 98 | − 8 | Apr. 29 | Oct. 20 |
| Lake George | 22.6 | 24.4 | 29.8 | 43.0 | 54.8 | 65.5 | 67.6 | 66.2 | 59.0 | 48.2 | 41.8 | 24.0 | 45.6 | 96 | −23 | Apr. 29 | Sept. 12 |
| Lake Placid Club | 18.2 | 18.0 | 21.1 | 35.8 | 48.6 | 60.3 | 59.0 | 58.2 | 52.4 | 38.3 | 33.6 | 15.8 | 38.4 | 85 | −26 | June 18 | Oct. 1 |
| Le Roy | 27.7 | 28.0 | 30.2 | 43.8 | 55.4 | 66.2 | 68.2 | 68.0 | 61.4 | 46.2 | 44.6 | 25.5 | 47.1 | 92 | − 6 | Apr. 29 | Oct. 20 |
| Liberty | 24.6 | 28.6 | 30.4 | 42.1 | 54.2 | 65.2 | 65.8 | 64.9 | 57.8 | a42.6 | 39.6 | 19.8 | 44.6 | 91 | −10 | May 5 | Oct. 13 |
| *Little Falls | 22.4 | 24.6 | 26.8 | 42.1 | 55.6 | 63.0 | 67.1 | 65.6 | 59.6 | 46.1 | 40.0 | 20.2 | 44.4 | 90 | −14 | Apr. 29 | Oct. 20 |
| Lockport | b28.4 | 28.5 | 30.1 | 42.8 | 53.3 | 65.9 | a69.1 | 68.2 | 61.0 | 45.8 | b43.6 | 26.4 | 46.9 | 90 | − 4 | Apr. 28 | Oct. 20 |
| Lowville | 21.2 | 21.4 | 26.1 | 39.8 | 52.9 | 63.6 | 65.4 | 64.0 | 56.4 | 43.6 | 38.2 | 19.8 | 42.7 | 90 | −21 | May 3 | Sept. 29 |
| Mohonk Lake | 26.0 | 29.8 | 31.0 | 44.6 | 55.2 | 66.2 | 68.2 | 65.7 | 60.2 | 48.4 | 43.9 | 25.9 | 47.1 | 87 | −10 | Apr. 30 | Oct. 14 |
| Moira | 18.5 | 20.2 | 25.4 | 40.3 | 54.2 | 65.6 | 67.4 | 67.8 | 59.0 | 46.6 | 36.6 | 20.9 | 43.5 | 93 | −18 | Apr. 29 | Oct. 20 |
| Morehouseville | 19.6 | 19.8 | 22.0 | 37.5 | 49.5 | 59.8 | 62.2 | ..... | 55.2 | 42.4 | 37.3 | 18.9 | ..... | 87 | −29 | June 1 | Sept. 6 |
| Mount Hope | 30.2 | 33.8 | 36.5 | 47.6 | 58.2 | 67.7 | 69.8 | 68.4 | 62.3 | 49.6 | 44.6 | 29.0 | 49.8 | 96 | − 2 | Apr. 25 | Oct. 14 |
| Nehasane | 17.2 | 17.6 | 20.8 | 35.6 | ..... | a55.2 | 61.2 | 60.4 | 54.2 | 41.0 | 35.4 | 17.6 | ..... | 88 | −31 | June 19 | Sept. 7 |
| New Lisbon | 22.2 | 26.5 | 26.4 | 40.8 | 52.1 | 61.4 | 62.8 | 61.5 | 55.4 | 43.0 | 38.4 | 20.0 | 42.5 | 91 | −19 | May 26 | Sept. 29 |
| *New York | 33.2 | 37.3 | 38.3 | 49.5 | 60.4 | 70.5 | 73.4 | 71.6 | 65.6 | 53.2 | 47.7 | 31.4 | 52.7 | 93 | 5 | Apr. 11 | Nov. 18 |
| North Creek | 21.4 | 23.2 | 27.0 | 39.8 | 54.0 | 64.0 | 66.4 | 64.2 | 57.0 | 45.6 | 38.4 | 21.6 | 43.6 | 92 | −27 | May 26 | Sept. 29 |
| North Lake | 20.4 | 20.3 | 22.4 | 36.8 | 51.2 | 61.2 | 62.4 | 62.2 | 55.6 | 43.1 | ..... | 16.8 | ..... | 90 | −25 | May 25 | ..... |
| Ogdensburg | 20.2 | 22.1 | 27.1 | ..... | ..... | 65.4 | 67.1 | 67.8 | 60.4 | 47.7 | 39.2 | 22.4 | ..... | 90 | −14 | ..... | Oct. 17 |
| Old Forge | 19.7 | 20.6 | 22.6 | 37.2 | 51.5 | 61.0 | 62.7 | 62.4 | 55.2 | 42.4 | 36.6 | 18.8 | 40.9 | 90 | −28 | May 26 | Sept. 6 |
| *Oneonta | 25.8 | 30.2 | 30.8 | 44.4 | 55.6 | 65.9 | 67.6 | 66.8 | 59.8 | 42.2 | 41.6 | 23.9 | 46.2 | 96 | −11 | May 12 | Sept. 29 |
| *Oswego | 26.6 | 27.2 | 30.2 | 41.6 | 51.8 | 63.1 | 66.6 | 66.5 | 60.2 | 47.4 | 43.4 | 26.1 | 45.9 | 88 | − 8 | Apr. 29 | Oct. 29 |
| Otto | 27.1 | 31.0 | 29.6 | 43.0 | 55.0 | 62.2 | ..... | ..... | 62.9 | 46.2 | 45.1 | 24.3 | ..... | ..... | − 4 | May 3 | Oct. 19 |
| Oxford | 24.6 | 28.8 | 29.6 | 43.0 | 55.0 | 64.2 | 66.2 | 64.0 | 59.4 | 45.6 | 41.1 | 23.8 | 45.4 | 89 | −17 | May 12 | Oct. 13 |
| Perry City | 26.8 | 28.8 | 29.8 | 44.3 | 56.4 | 66.5 | 68.8 | 67.9 | 59.8 | 45.5 | 41.5 | 24.7 | 46.7 | 93 | −13 | May 4 | Oct. 13 |
| Philadelphia | 22.0 | 22.0 | 25.9 | 42.4 | 54.3 | 64.8 | 67.4 | 67.6 | 60.0 | 46.8 | 41.0 | 21.4 | 44.6 | 88 | −21 | Apr. 29 | Oct. 18 |
| Plattsburg | 21.2 | 20.8 | c25.8 | d37.4 | 49.7 | ..... | ..... | 66.5 | 60.0 | 46.4 | 37.4 | 22.2 | ..... | ..... | −20 | May 1 | Oct. 20 |
| *Port Jervis | 33.2 | 33.9 | 47.6 | 58.3 | 69.1 | 70.0 | 68.8 | 64.8 | 49.4 | 43.7 | 26.9 | 49.5 | 102 | − 8 | May 2 | Oct. 13 | |
| Potsdam | 18.6 | 20.5 | 25.2 | 41.8 | 55.2 | 65.4 | c67.3 | 66.8 | 58.8 | 46.4 | 38.6 | 20.2 | 43.7 | 92 | −25 | Apr. 29 | Oct. 16 |
| Raquette Lake | 19.6 | 20.8 | 22.0 | 37.2 | 50.8 | 60.6 | 62.4 | 62.0 | 55.6 | 43.0 | 36.9 | 21.0 | 41.0 | 84 | −22 | May 12 | Oct. 13 |
| *Rochester | 28.8 | 29.2 | 31.2 | 43.8 | 55.0 | 66.5 | 69.2 | 69.1 | 61.2 | 47.3 | 44.6 | 26.1 | 47.7 | 91 | 0 | Apr. 11 | Oct. 19 |
| Romulus | 28.4 | 29.2 | 31.2 | 44.8 | b55.5 | c67.5 | b69.6 | 68.4 | 62.2 | a48.2 | 44.2 | 26.7 | 48.0 | 94 | − 3 | Apr. 29 | Oct. 19 |
| Salisbury | 20.7 | 22.0 | 24.9 | 39.6 | 53.6 | ..... | 65.4 | 64.6 | 57.3 | 44.6 | 39.3 | 20.4 | ..... | ..... | −20 | May 3 | Sept. 29 |
| Salisbury Mills | 29.3 | 33.5 | 35.0 | 47.0 | 57.6 | 69.6 | 69.0 | 68.2 | 61.1 | 48.4 | 44.4 | 27.4 | 49.2 | 94 | − 6 | Apr. 26 | Oct. 19 |
| Scarsdale | 29.2 | 32.6 | 35.8 | 47.0 | 57.6 | 68.6 | 70.5 | 68.2 | 61.8 | 51.8 | 45.8 | 29.5 | 49.9 | 93 | − 4 | Apr. 25 | Oct. 20 |
| Setauket | 33.0 | 36.1 | 36.9 | 47.0 | 57.2 | 67.6 | 71.0 | 68.6 | 63.6 | 52.4 | 46.7 | 32.0 | 51.0 | 92 | 3 | Apr. 25 | ..... |
| Shortsville | 28.2 | 28.6 | 30.2 | 43.8 | 54.8 | 65.8 | 68.4 | 67.9 | 61.5 | 47.1 | 45.0 | 25.2 | 47.2 | 90 | − 6 | May 2 | Oct. 21 |
| Southampton | 33.8 | 36.0 | 36.9 | 46.1 | 56.2 | 65.8 | 69.0 | 68.8 | 63.0 | 51.8 | 46.4 | 31.1 | 50.4 | 89 | 6 | Apr. 29 | Oct. 20 |
| Spier Falls | 23.3 | 24.0 | 29.6 | 42.4 | 55.0 | ..... | 67.8 | 65.4 | 58.8 | 46.2 | 39.0 | 22.2 | ..... | 91 | −20 | Apr. 29 | Sept. 6 |
| *Syracuse | 27.0 | 29.2 | 30.4 | 42.5 | 55.2 | 66.0 | 68.4 | 67.4 | 60.7 | 47.2 | 43.6 | 24.9 | 46.9 | 92 | − 9 | Apr. 29 | Oct. 29 |
| Ticonderoga | 22.1 | 22.4 | 28.2 | 40.6 | 53.6 | ..... | 68.4 | ..... | 58.6 | 49.4 | 40.8 | 23.9 | ..... | ..... | −23 | Apr. 29 | Oct. 29 |
| Volusia | 23.2 | 28.2 | 28.7 | 42.2 | 54.6 | 65.0 | 67.7 | 67.1 | 60.2 | 46.5 | 45.6 | 24.8 | 46.6 | 90 | − 1 | May 4 | Oct. 13 |
| Wading River | 32.8 | 35.9 | 36.6 | 46.5 | 57.1 | 66.9 | 69.8 | 68.4 | 62.2 | 50.8 | 45.8 | 30.1 | 50.2 | 95 | 4 | May 3 | Oct. 14 |
| Wappingers Falls | 27.2 | 32.8 | 34.4 | 48.2 | 58.0 | 68.3 | 70.0 | 67.4 | 61.6 | 50.4 | 43.0 | 25.8 | 48.9 | 91 | −13 | Apr. 30 | Oct. 14 |
| Watertown | 23.6 | 24.4 | 28.3 | 43.4 | 54.6 | 65.5 | 67.6 | 67.2 | 59.7 | 46.6 | 41.5 | 22.6 | 45.4 | 89 | −13 | Apr. 29 | Oct. 19 |
| Waverley | 26.9 | 32.0 | 32.6 | 45.6 | 57.0 | 67.6 | 68.4 | 66.8 | 60.2 | 46.3 | 43.2 | 25.2 | 47.6 | 100 | −19 | May 12 | Sept. 6 |
| Wedgewood | 25.6 | 28.1 | 29.1 | 41.8 | 54.4 | 65.0 | 68.8 | 67.8 | 60.5 | 45.8 | 42.2 | 23.2 | 46.0 | 95 | − 7 | May 8 | Oct. 13 |
| West Berne | 25.1 | 26.5 | 29.7 | 42.9 | 54.8 | 64.4 | 66.2 | 64.3 | 58.6 | 46.8 | 41.0 | 21.6 | 45.2 | 93 | −20 | May 26 | Sept. 19 |
| Westfield | 30.0 | 29.4 | b30.4 | 43.5 | 55.5 | b65.8 | 67.3 | 67.5 | a60.6 | a46.0 | 46.3 | a29.4 | 47.3 | 86 | 0 | May 2 | Oct. 13 |
| West Point | 28.0 | 32.2 | 34.4 | 48.0 | 58.6 | 70.1 | 72.4 | 70.0 | 61.4 | 40.8 | 44.4 | 28.6 | 49.1 | 96 | − 3 | Apr. 25 | Sept. 26 |
| Windham | 25.2 | 29.4 | 28.8 | 41.4 | 53.5 | 62.8 | 63.8 | 62.9 | 56.4 | 44.8 | 39.4 | 21.6 | 44.2 | 89 | −18 | May 3 | Sept. 29 |
| *North Carolina.* | | | | | | | | | | | | | | | | | |
| Andrews | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 72.8 | 68.2 | 55.0 | 52.4 | 34.3 | ..... | ..... | ..... | ..... | Oct. 13 |
| *Asheville | 42.4 | 43.0 | 44.7 | 56.2 | 61.2 | 71.2 | 70.0 | 71.6 | 64.4 | 52.8 | 51.0 | 32.7 | 55.1 | 90 | 2 | May 3 | Oct. 13 |
| Banners Elk | 38.6 | 37.1 | a38.2 | 49.8 | 55.4 | 65.5 | 64.3 | 65.4 | 58.6 | 47.1 | 44.6 | 28.4 | 49.4 | 85 | − 5 | May 12 | Sept. 26 |
| Beaufort | 51.2 | 52.0 | a53.4 | 62.7 | a71.2 | 79.3 | 79.1 | 79.2 | 73.6 | 63.4 | 59.8 | b44.1 | 64.1 | 93 | 17 | Feb. 2 | Dec. 10 |
| Belhaven | 48.2 | 50.8 | a50.2 | 61.2 | 69.2 | 78.2 | 76.4 | 77.2 | 70.9 | 59.0 | 56.3 | 40.0 | 61.5 | 96 | 14 | Apr. 12 | Oct. 14 |
| Blanch | ..... | 48.4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Brevard | 42.8 | 43.6 | 46.2 | 56.0 | 61.1 | 70.8 | 72.4 | 74.6 | 64.6 | 54.2 | 50.4 | 33.8 | 55.9 | 93 | 2 | May 3 | Sept. 27 |
| Brewers | 43.4 | 45.8 | 45.9 | 56.7 | 63.4 | 73.5 | 72.5 | 73.4 | 66.8 | 54.2 | b51.8 | 36.4 | 57.0 | 98 | 6 | May 3 | Oct. 13 |
| Caroleen | 44.6 | 48.0 | 49.4 | 61.4 | 65.6 | 76.7 | 76.6 | k76.7 | 69.4 | 57.0 | 54.4 | 37.8 | 59.8 | 97 | 6 | Apr. 10 | Oct. 25 |
| Chalybeate Springs | 48.8 | 49.7 | 48.4 | b60.1 | 66.4 | 77.6 | 75.6 | e74.9 | d68.6 | b57.4 | b53.2 | 38.2 | 59.7 | 98 | 8 | Apr. 10 | Oct. 13 |
| Chapel Hill | 42.8 | 50.8 | 49.3 | 61.8 | 67.1 | 78.0 | 76.0 | 75.4 | 69.4 | 59.0 | 55.6 | 39.5 | 60.7 | 96 | 10 | Apr. 11 | Oct. 25 |
| *Charlotte | 45.2 | 48.9 | 49.8 | 61.6 | 66.8 | 76.6 | 76.2 | 76.0 | 69.0 | 58.8 | 56.2 | 39.2 | 60.4 | 95 | 12 | Feb. 26 | Oct. 25 |
| Chimney Rock | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | l66.5 | 57.5 | 55.5 | 39.0 | ..... | ..... | ..... | ..... | Oct. 25 |
| Clinton | ..... | ..... | ..... | b63.6 | ..... | ..... | ..... | ..... | f71.6 | 59.8 | 57.3 | 41.6 | ..... | ..... | ..... | Apr. 10 | Oct. 25 |
| Eagletown | 44.6 | 50.0 | 48.0 | 59.8 | 66.0 | 75.8 | 75.6 | 74.3 | 69.1 | 56.9 | 54.0 | 37.4 | 59.3 | 93 | 13 | Apr. 12 | Oct. 17 |
| Edenton | d45.1 | 49.4 | a48.6 | 59.6 | b65.4 | g75.6 | ..... | ..... | b68.9 | 56.2 | 53.0 | c39.0 | ..... | ..... | 13 | Apr. 11 | Oct. 14 |
| *Fayetteville | 48.2 | 51.4 | 51.6 | 63.4 | 68.9 | 79.1 | 77.2 | 76.9 | 70.8 | 60.2 | 57.3 | 41.3 | 62.2 | 97 | 14 | Mar. 24 | Oct. 29 |
| *Goldsboro | k44.4 | b50.5 | 50.0 | 62.1 | 69.3 | 79.6 | 77.0 | 76.6 | 69.7 | 57.4 | 54.8 | 40.0 | 61.0 | 99 | ..... | Apr. 11 | Oct. 26 |
| *Greensboro | 44.0 | 48.0 | 48.1 | 60.2 | 66.4 | 77.6 | 76.0 | 74.8 | 68.5 | 56.8 | 54.6 | 36.9 | 59.3 | 97 | 11 | Apr. 11 | Oct. 25 |
| *Hatteras | 50.6 | 52.6 | 52.2 | 61.8 | 68.2 | 76.1 | 76.6 | 77.4 | 72.8 | 63.0 | 58.9 | 44.0 | 62.8 | 88 | 20 | Feb. 2 | Dec. 10 |
| Henderson | 44.4 | 48.7 | 47.7 | 59.2 | 65.6 | 75.8 | 74.8 | 73.2 | 67.2 | 55.6 | 53.2 | 37.3 | 58.6 | 94 | 12 | Apr. 11 | Oct. 29 |
| Hendersonville | 42.6 | 44.0 | 46.0 | 56.4 | 60.6 | 70.6 | 70.9 | 71.6 | 65.0 | 53.4 | 51.0 | 34.4 | 55.5 | 91 | 4 | May 3 | Oct. 13 |
| Highlands | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 47.2 | 30.4 | ..... | ..... | ..... | ..... | ..... |
| Hot Springs | 45.8 | 45.7 | 47.6 | 58.7 | 64.1 | 73.2 | 72.4 | 74.5 | 67.8 | 55.6 | a54.3 | 34.7 | 57.9 | 92 | 3 | May 2 | Oct. 13 |
| Kinston | 48.7 | 53.0 | 52.2 | 63.3 | k69.8 | 78.4 | 76.4 | 77.1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Apr. 11 | ..... |
| Lake Toxaway | d43.2 | g42.8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Lenoir | 43.2 | 45.2 | 47.3 | 57.8 | 63.6 | 73.9 | 73.0 | 73.0 | 66.0 | 54.0 | 52.1 | 35.0 | 57.0 | 95 | 4 | May 3 | Oct. 13 |
| Lexington | 44.2 | 47.6 | 47.5 | 59.2 | 63.8 | 75.6 | 75.7 | 75.0 | 68.0 | 55.8 | 54.8 | 35.9 | 58.6 | 100 | 9 | Apr. 12 | Oct. 13 |
| Lincolnton | 44.1 | 48.1 | 50.2 | 62.4 | 66.5 | ..... | 76.2 | 75.6 | 68.2 | 56.5 | 54.2 | 37.8 | ..... | ..... | 7 | Apr. 11 | Oct. 13 |
| *Louisburg | 45.6 | 49.0 | 49.0 | 60.6 | 66.2 | 77.2 | 75.4 | 76.2 | 68.2 | 55.6 | 53.9 | 37.8 | 59.6 | 94 | 14 | Apr. 11 | Oct. 13 |
| *Lumberton | 48.0 | 50.8 | 52.2 | 63.7 | 69.6 | 79.2 | 77.6 | 78.3 | 71.8 | 59.5 | 56.0 | 40.6 | 62.3 | 98 | 15 | Apr. 10 | Oct. 30 |
| *Manteo | 49.2 | 51.0 | 50.2 | 60.2 | 66.2 | 75.6 | 75.9 | 75.3 | 70.4 | 60.1 | 56.2 | 40.6 | 60.9 | 90 | 16 | Mar. 19 | Oct. 30 |
| Marion | 44.7 | 47.3 | 49.0 | 59.7 | 63.9 | 74.2 | 74.2 | 74.4 | 67.8 | 57.1 | 55.0 | 37.2 | 58.7 | 97 | 5 | May 3 | Oct. 25 |
| Marshall | ..... | a44.3 | 46.6 | 56.8 | 62.2 | 71.8 | 71.7 | 73.7 | 66.4 | 55.8 | 52.6 | 34.6 | ..... | 92 | ..... | May 3 | Oct. 13 |
| *Moncure | 47.1 | 50.2 | a49.8 | 61.2 | 66.4 | a77.8 | 75.9 | 75.2 | 69.5 | 56.6 | 54.2 | 38.4 | 60.2 | 98 | 10 | Apr. 11 | Oct. 13 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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*—Con. | | | | | | | | | | | | | | | | | |
| Monroe | 46.3 | 49.4 | 50.0 | 61.0 | 66.0 | 76.8 | 75.4 | 76.0 | 71.0 | 57.8 | 55.6 | 39.0 | 60.4 | 99 | 8 | Apr. 10 | Oct. 13 |
| Morganton | 44.4 | 47.6 | e49.5 | 60.2 | 65.0 | 75.2 | 74.4 | 74.2 | 67.0 | 56.1 | 53.8 | 36.8 | 58.7 | 95 | 9 | May 3 | Oct. 25 |
| Mount Airy | 42.2 | 44.6 | 44.0 | 53.6 | 58.0 | 69.6 | 68.1 | 68.7 | 67.0 | 54.0 | 51.4 | 35.5 | 54.7 | 99 | 7 | May 3 | Oct. 13 |
| *Nashville | 45.1 | 50.0 | 48.8 | 60.8 | 66.8 | 77.2 | 75.4 | 75.0 | 69.2 | 59.2 | 54.1 | 37.8 | 59.7 | 96 | 12 | Apr. 10 | Oct. 29 |
| *Newbern | 48.0 | 51.2 | 51.5 | 61.8 | 68.0 | 77.2 | 76.0 | 76.8 | 70.9 | 59.5 | a58.5 | 40.8 | 61.7 | 95 | 12 | Mar. 26 | Oct. 30 |
| Pinehurst | 48.6 | 51.3 | 51.5 | 64.3 | 68.0 | 77.8 | 76.6 | 76.4 | 70.0 | 59.5 | 57.6 | 41.0 | 61.9 | 97 | 11 | Apr. 11 | Nov. 19 |
| Pittsboro | | 49.2 | 48.5 | 61.6 | 65.6 | 75.8 | | | | | | 37.6 | | | | Apr. 11 | |
| *Raleigh | 46.0 | 49.9 | 48.8 | 61.2 | 67.2 | 77.4 | 75.6 | 75.4 | 68.7 | 58.4 | 55.4 | 39.4 | 60.3 | 95 | 12 | Mar. 5 | Oct. 30 |
| Ramseur | a43.8 | b47.6 | 48.3 | a60.0 | a64.7 | d77.0 | 75.0 | 74.6 | 67.4 | a55.5 | 51.8 | a36.4 | 58.5 | 97 | 9 | Apr. 11 | Oct. 13 |
| *Reidsville | a43.8 | 47.3 | 46.7 | 58.0 | 64.8 | 76.0 | 74.7 | 73.6 | 68.5 | 57.6 | b55.4 | 37.8 | 58.7 | 96 | 10 | May 3 | Oct. 25 |
| Rock House | 43.0 | 43.2 | 44.5 | 54.4 | 58.7 | 68.2 | 67.8 | 69.0 | 62.5 | 52.9 | 52.8 | 34.1 | 54.3 | 86 | −2 | May 2 | Oct. 13 |
| Rockingham | 48.4 | 53.0 | 54.3 | ..... | 69.0 | f78.7 | c77.0 | a75.3 | b69.0 | 57.8 | b56.6 | e39.8 | ..... | 98 | 11 | ..... | Oct. 17 |
| Salem | 42.8 | 46.4 | 46.6 | 58.6 | 64.0 | 75.4 | 74.1 | 73.0 | 67.0 | 54.8 | 52.3 | 35.4 | 57.5 | 97 | 10 | Apr. 11 | Oct. 13 |
| *Salisbury | 44.6 | 48.0 | 48.7 | 60.0 | 66.6 | 77.2 | 77.2 | 75.8 | 68.8 | 58.0 | ..... | 37.8 | ..... | 98 | 9 | Apr. 11 | Oct. 13 |
| Saxon | 42.6 | 45.2 | 45.6 | 57.0 | 63.1 | 74.0 | 72.8 | 72.2 | 66.2 | 53.7 | 52.0 | 34.2 | 56.6 | 95 | 6 | May 3 | Oct. 13 |
| Scotland Neck | 47.0 | 50.4 | f49.2 | 60.0 | a66.0 | 75.3 | 74.2 | 73.5 | 68.2 | 56.4 | 54.6 | ..... | ..... | 92 | ..... | Apr. 12 | Oct. 29 |
| Selma | d47.6 | d48.4 | e49.2 | 62.6 | b66.8 | e79.2 | 78.1 | b77.7 | ..... | ..... | 53.6 | b38.9 | ..... | 97 | 13 | Apr. 10 | Oct. 26 |
| Settle | 41.6 | 46.5 | 46.8 | ..... | ..... | b75.4 | 73.8 | 74.4 | 69.4 | 55.8 | 54.0 | i35.2 | ..... | 99 | 2 | ..... | Oct. 13 |
| Sloan | b49.6 | c52.1 | 52.4 | 62.8 | a68.6 | 77.8 | a76.8 | 77.5 | 71.8 | a57.6 | b56.2 | 42.2 | 62.1 | 96 | 12 | Apr. 10 | Oct. 25 |
| Snow Hill | 47.8 | 51.2 | 49.8 | a61.5 | a67.9 | 78.2 | 75.7 | 76.6 | 70.6 | a57.2 | 55.6 | 40.3 | 61.0 | 96 | 13 | Apr. 10 | Oct. 29 |
| Southern Pines | 47.6 | 51.2 | 51.4 | 63.4 | 68.8 | 77.8 | a76.7 | 77.0 | 70.2 | a60.0 | 58.1 | 41.6 | 62.0 | 97 | 12 | Apr. 11 | Nov. 19 |
| Southport | 51.4 | 52.1 | 54.4 | 63.4 | 70.2 | 79.6 | 79.2 | 79.4 | 73.6 | 63.1 | 60.2 | 44.9 | 64.3 | 93 | 16 | Feb. 3 | Oct. 25 |
| Statesville | ..... | ..... | ..... | 61.6 | 65.6 | 76.0 | 76.4 | 75.4 | 68.0 | ..... | 55.8 | 38.1 | ..... | 98 | ..... | ..... | Oct. 25 |
| Sunburst | ..... | ..... | ..... | 53.8 | 58.1 | 66.6 | 66.9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | May 3 | ..... |
| *Tarboro | a46.2 | 50.6 | 49.4 | 62.2 | a68.0 | 78.6 | 77.0 | 77.0 | 71.2 | 58.2 | a55.3 | e39.5 | 61.1 | 97 | 13 | Apr. 11 | Oct. 14 |
| Troy | c47.4 | 49.7 | h49.9 | a60.6 | a65.6 | 75.5 | a75.4 | 74.9 | a68.2 | c58.3 | c56.4 | 39.7 | 60.1 | 95 | 10 | Apr. 11 | Oct. 29 |
| *Wash Woods | ..... | 50.2 | 51.6 | ..... | a67.2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Waynesville | 44.0 | 43.0 | 44.7 | 56.6 | 60.8 | 69.6 | 68.7 | 69.4 | 64.0 | 51.8 | 49.8 | b28.6 | 54.2 | 88 | −4 | May 3 | Sept. 28 |
| *Weldon | 44.0 | 47.8 | 47.4 | 59.8 | 68.0 | 78.4 | 77.5 | 76.4 | 70.0 | 56.6 | 53.4 | 37.2 | 59.7 | 99 | 13 | Apr. 12 | Oct. 17 |
| Whiteville | 49.6 | 51.8 | a53.2 | 63.4 | a67.4 | 78.5 | a76.8 | ..... | 70.6 | 58.3 | 56.0 | 42.0 | ..... | ..... | 12 | Apr. 10 | Oct. 25 |
| Willard | 48.6 | 51.8 | 52.3 | 63.0 | 68.2 | 78.4 | 76.7 | a77.2 | 70.8 | b57.8 | 54.7 | 41.0 | 61.7 | 95 | 11 | Apr. 11 | Oct. 25 |
| *Wilmington | 50.6 | 53.1 | 53.9 | 63.2 | 69.3 | 78.0 | 77.0 | 77.8 | 71.0 | 61.2 | 58.4 | 43.8 | 63.1 | 91 | 16 | Mar. 3 | Nov. 19 |
| *North Dakota.* | | | | | | | | | | | | | | | | | |
| *Amenia | 4.2 | 9.1 | 25.6 | 35.4 | 53.2 | 65.8 | 69.9 | 70.8 | 60.3 | 45.9 | 32.1 | 7.2 | 40.0 | 96 | −35 | [1] May 10 | [2] Oct. 11 |
| Aplin | ..... | ..... | ..... | 35.9 | 52.7 | 62.7 | 67.1 | a70.5 | b60.0 | 43.8 | 30.6 | 5.6 | ..... | 98 | ..... | [1] May 16 | [2] Sept. 22 |
| Beach | 9.8 | 19.3 | 28.0 | 35.2 | 50.0 | 62.1 | 66.6 | 68.5 | 59.4 | 43.6 | 31.8 | a7.2 | 40.1 | 96 | −34 | [1] May 15 | [2] Oct. 8 |
| Berlin | 5.4 | 10.1 | 26.0 | 36.8 | 51.8 | 62.2 | 66.7 | 70.2 | ..... | ..... | ..... | ..... | ..... | 96 | −31 | [1] May 16 | ..... |
| Berthold Agency | 5.8 | b9.8 | 26.2 | 35.7 | 51.6 | a60.0 | 68.4 | 70.2 | 60.8 | c44.9 | 30.6 | b7.4 | 39.3 | 99 | −39 | [1] June 14 | Oct. 9 |
| *Bismarck | 6.3 | 12.2 | 27.7 | 35.2 | 52.7 | 64.8 | 69.5 | 71.4 | 60.7 | 44.0 | 30.0 | 7.0 | 40.1 | 99 | −30 | May 13 | Sept. 24 |
| *Bottineau | −1.4 | 4.8 | 18.6 | 30.0 | 50.2 | 61.1 | 65.3 | 66.6 | 57.7 | 39.9 | 24.2 | 4.0 | 35.1 | 96 | −41 | [1] May 10 | Sept. 23 |
| Broncho | 1.8 | 14.8 | 24.6 | 34.4 | 50.4 | 63.6 | 66.1 | 69.4 | 59.8 | 43.6 | 30.0 | 6.2 | 38.7 | 94 | −29 | [1] May 18 | Oct. 7 |
| Buford | 7.0 | 15.3 | 29.2 | ..... | 55.2 | 63.0 | 68.4 | 70.8 | a62.8 | 45.5 | 30.4 | 8.6 | ..... | 102 | −37 | [1] May 8 | Oct. 10 |
| Cando | 0.6 | 4.4 | a18.4 | a32.6 | c50.1 | d62.0 | e65.1 | ..... | b58.0 | a41.0 | b24.6 | b1.8 | ..... | ..... | −42 | [1] May 10 | [2] Sept. 24 |
| Coal Harbor | b4.2 | 11.5 | b26.6 | 37.4 | 53.9 | ..... | ..... | 72.1 | b61.2 | 45.4 | a30.4 | b5.6 | ..... | 109 | −34 | [1] May 13 | [2] Oct. 9 |
| Crosby | 1.2 | 8.0 | 22.8 | 31.4 | 49.2 | 60.8 | 67.6 | 67.6 | 60.0 | 41.6 | 26.1 | 5.0 | 36.8 | 98 | −38 | May 9 | [2] Aug. 28 |
| *Devils Lake | 1.2 | 5.1 | 18.4 | 32.6 | 50.6 | 62.6 | 66.9 | 67.4 | 58.7 | 41.5 | 27.0 | 3.6 | 36.3 | 90 | −37 | May 9 | Oct. 9 |
| *Dickinson | 8.0 | 16.7 | 27.6 | 35.4 | 51.9 | 62.6 | 67.0 | 68.8 | 59.6 | 44.5 | 31.4 | 8.7 | 40.2 | 94 | −31 | [1] May 18 | [2] Oct. 9 |
| Donnybrook | ..... | 10.4 | 24.4 | 33.6 | 50.6 | 63.1 | b69.2 | 68.8 | a60.6 | 42.8 | 26.6 | e5.5 | ..... | 102 | −27 | [1] May 14 | [2] Aug. 31 |
| Dunseith | −3.1 | 4.8 | 18.4 | 31.9 | 50.3 | 61.7 | 65.6 | 68.2 | 57.2 | 40.0 | 25.4 | 4.4 | 35.4 | 100 | −48 | [1] May 10 | [2] Sept. 20 |
| Edgeley | 7.0 | 12.2 | 23.8 | 36.2 | 52.2 | 64.1 | 67.8 | 71.4 | 59.6 | 43.8 | 29.4 | 6.2 | 39.5 | 98 | −28 | [1] May 16 | [2] Sept. 30 |
| Edmore | 1.7 | 4.5 | 18.6 | 34.9 | 53.7 | 64.7 | 67.4 | 68.3 | 59.0 | 39.7 | 29.0 | 2.9 | 37.8 | 94 | −40 | [1] May 16 | ..... |
| *Ellendale | 7.0 | 12.8 | 27.8 | 36.8 | 53.6 | 65.6 | 69.2 | 71.8 | 60.6 | 45.1 | 29.8 | 5.8 | 40.5 | 99 | −30 | [1] May 16 | [2] Oct. 11 |
| Forman | 5.0 | 12.1 | 27.3 | 37.3 | 54.5 | 66.1 | 70.4 | 75.4 | 64.2 | 51.0 | 34.7 | 10.0 | 42.3 | 97 | −32 | [1] May 10 | [2] Oct. 11 |
| Fullerton | 6.7 | 11.3 | 26.6 | 35.6 | 52.0 | 63.6 | 67.8 | 70.6 | 58.8 | 43.6 | 28.2 | 6.0 | 39.2 | 97 | −32 | May 10 | Sept. 24 |
| Grafton | 0.6 | 6.2 | ..... | ..... | ..... | ..... | 68.1 | 69.0 | 59.9 | ..... | 27.6 | 2.7 | ..... | 93 | −37 | ..... | ..... |
| Granville | a2.6 | b7.9 | j25.6 | j38.4 | b52.1 | a62.6 | a67.2 | 68.8 | ..... | d39.5 | 26.2 | k5.6 | ..... | 96 | −34 | [1] May 10 | [2] Aug. 29 |
| Haley | b9.2 | 17.0 | 29.3 | b35.8 | b51.4 | 62.4 | 67.5 | 70.4 | 59.4 | a44.0 | 39.4 | 12.5 | 41.5 | 99 | −34 | [1] May 13 | [2] Sept. 19 |
| Hannah | −1.1 | a2.9 | ..... | ..... | ..... | 60.4 | a65.4 | ..... | d56.6 | e40.4 | ..... | 5.6 | ..... | ..... | −41 | [1] June 14 | [2] Sept. 3 |
| Hansboro | 0.0 | 4.2 | 17.0 | 30.6 | 49.4 | 60.6 | 65.4 | 67.0 | 57.8 | 40.8 | 24.6 | 3.8 | 35.1 | 95 | −38 | [1] May 10 | [2] Sept. 23 |
| Hettinger | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 75.8 | 66.4 | 54.2 | 40.9 | 9.0 | ..... | 97 | ..... | ..... | [2] Oct. 10 |
| Hillsboro | 4.9 | 9.5 | 25.0 | 35.7 | 53.5 | 65.2 | 69.4 | 70.6 | 60.1 | 45.0 | 27.7 | 6.0 | 39.4 | 93 | −34 | [1] May 16 | [2] Oct. 11 |
| Howard | 3.4 | 10.8 | 23.3 | 31.8 | 50.0 | 62.0 | 67.0 | 68.4 | 59.8 | 41.2 | 26.8 | 5.3 | 37.5 | 100 | −40 | [1] May 16 | [2] Sept. 21 |
| Jamestown | 4.7 | 9.8 | 24.7 | 35.2 | 51.3 | 63.6 | 66.8 | 66.2 | 56.8 | 41.0 | 29.0 | 3.7 | 37.7 | 96 | −34 | [1] May 16 | [2] Sept. 24 |
| Lakota | d−1.4 | 4.4 | e17.9 | 32.6 | a50.0 | a61.6 | 64.6 | 65.6 | b57.6 | e42.9 | b26.9 | e1.7 | 35.4 | 92 | −36 | [1] May 16 | Sept. 23 |
| Lamoine | 2.4 | 9.4 | 21.8 | 33.3 | 50.4 | 62.0 | 66.7 | 67.8 | 58.0 | 41.4 | 28.8 | b2.8 | 37.1 | 95 | −38 | [1] May 16 | [2] Sept. 22 |
| *Langdon | 0.8 | 4.4 | ..... | 29.4 | d47.6 | d61.9 | 65.8 | 66.1 | 58.6 | a43.1 | 24.4 | 3.8 | ..... | 93 | −41 | [1] June 14 | [2] Aug. 29 |
| *Larimore | ..... | ..... | ..... | a35.0 | 52.8 | 64.5 | 67.4 | 68.7 | b57.6 | ..... | ..... | ..... | ..... | 96 | ..... | [1] May 16 | [2] Sept. 25 |
| *Lisbon | 7.4 | 10.0 | 25.4 | 35.4 | 52.4 | 64.4 | 68.3 | 70.6 | 59.0 | 43.4 | b28.6 | 5.9 | 39.2 | 93 | −30 | [1] May 16 | [2] Sept. 1 |
| McKinney | 1.4 | 6.0 | 22.4 | 32.4 | 50.0 | 61.3 | 66.1 | 65.7 | 58.6 | 41.2 | 25.3 | 4.5 | 36.2 | 100 | −42 | [1] May 16 | [2] Aug. 29 |
| Manfred | 2.8 | 9.6 | 23.8 | 34.2 | 50.6 | 63.4 | 67.8 | 68.5 | 58.5 | 42.6 | 28.9 | 2.9 | 37.8 | 95 | −35 | [1] May 16 | [2] Aug. 29 |
| Mayville | 4.2 | 8.6 | 24.2 | 35.2 | 53.0 | 64.7 | 67.8 | 69.0 | 59.0 | 47.3 | 36.7 | 6.8 | 39.7 | 95 | −34 | [1] May 16 | [2] Sept. 23 |
| Medina | ..... | 16.6 | 23.4 | 35.9 | ..... | 62.2 | 65.8 | 68.5 | ..... | ..... | ..... | ..... | ..... | 94 | ..... | [1] June 15 | [2] Aug. 29 |
| *Medora | 8.8 | 20.0 | 30.1 | a36.6 | 44.4 | 63.0 | 60.7 | 70.0 | a58.4 | 45.8 | 31.0 | 9.8 | 39.9 | 108 | −40 | [1] May 29 | [2] Sept. 23 |
| Melville | 5.6 | 8.3 | c23.8 | a31.4 | c39.1 | a62.0 | d67.5 | d67.6 | c56.6 | a34.8 | c26.4 | 5.8 | 36.6 | 97 | −32 | [1] May 16 | [2] Sept. 23 |
| Milnor | ..... | ..... | ..... | 32.6 | 43.4 | 61.2 | 64.9 | 66.2 | 51.9 | ..... | ..... | ..... | ..... | 90 | ..... | [1] May 26 | [2] Sept. 18 |
| *Minot | f2.9 | 12.8 | 24.2 | 32.8 | e52.2 | 62.4 | 67.0 | 69.0 | 60.4 | 42.5 | 28.0 | 5.3 | 38.3 | 98 | −35 | [1] May 10 | [2] Aug. 29 |
| Minto | 2.1 | b10.2 | 23.8 | 33.6 | b54.0 | 65.0 | 68.2 | 69.0 | 58.1 | b43.1 | c28.2 | 5.4 | 38.4 | 93 | −33 | [1] May 16 | [2] Sept. 31 |
| Mott | 4.4 | 12.2 | 28.1 | 34.9 | 51.6 | 62.8 | 67.7 | 72.0 | 59.4 | 41.8 | 30.2 | 3.6 | 39.1 | 100 | −35 | [1] May 14 | Sept. 23 |
| Napoleon | 3.3 | 8.6 | 22.0 | 29.9 | 46.8 | 62.8 | 66.8 | 69.0 | 58.2 | 42.4 | 28.2 | 3.1 | 36.8 | 97 | −38 | [1] May 16 | [2] Aug. 29 |
| New England | 9.0 | 14.6 | 27.7 | 35.4 | 49.4 | 61.0 | 63.9 | 68.5 | 57.4 | 44.2 | 31.0 | ..... | ..... | 95 | −35 | [1] May 18 | [2] Sept. 15 |
| New Salem | 7.4 | 13.8 | 27.0 | 35.4 | 52.5 | 63.6 | 68.4 | 69.8 | 59.4 | 43.8 | d33.3 | 6.2 | 40.1 | 98 | −32 | [1] May 10 | Oct. 10 |
| Orange | 9.0 | ..... | 28.0 | 35.4 | 50.1 | 60.2 | 66.4 | 70.7 | 60.7 | 44.2 | 30.4 | b7.8 | ..... | 100 | −32 | [1] June 10 | [2] Sept. 19 |
| Oriska | 7.0 | 11.8 | 25.8 | 36.1 | 52.8 | 65.0 | ..... | ..... | e58.1 | 43.6 | 30.1 | ..... | ..... | ..... | −31 | [1] May 10 | [2] Oct. 8 |
| Palermo | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 74.2 | 63.7 | 43.6 | 32.9 | ..... | ..... | 99 | ..... | ..... | [2] Oct. 9 |
| Park River | 3.0 | 6.3 | 22.0 | 34.0 | 52.8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | −36 | [1] May 9 | ..... |
| *Pembina | −3.4 | 0.0 | 20.4 | 31.6 | 49.8 | 62.4 | 67.2 | 67.2 | 56.2 | 39.8 | 26.7 | −1.6 | 34.7 | 91 | −42 | [1] June 14 | [2] Oct. 14 |
| Portal | b −3.6 | 9.0 | 23.2 | 37.0 | 46.0 | a58.6 | 67.8 | 61.6 | e60.6 | ..... | ..... | ..... | ..... | 96 | −37 | ..... | [2] Aug. 22 |
| Power | 5.2 | ..... | 25.4 | 35.8 | 52.6 | 63.4 | 67.7 | 70.2 | 58.6 | 43.4 | 27.8 | 5.4 | ..... | 93 | −34 | [1] May 16 | [2] Sept. 24 |

[1] No killing frost recorded; last freezing temperature in spring.

[2] No killing frost recorded; first freezing temperature in fall.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *North Dakota*—Con. | | | | | | | | | | | | | | | | | |
| Pratt | 0.1 | 5.1 | ..... | ..... | 52.2 | 64.8 | 67.4 | 66.5 | 60.0 | 44.8 | 24.6 | 2.7 | ..... | 99 | −41 | [1] May 16 | [2] Aug. 29 |
| Schafer | | | | | | | | | | [f]38.8 | 31.1 | 9.6 | | | | | Oct. 8 |
| Steele | [a]3.4 | 10.4 | 24.6 | 35.0 | [a]51.4 | [a]63.2 | 67.7 | 99.2 | 58.0 | [b]43.4 | 29.7 | 4.2 | 38.4 | 96 | −36 | [1] May 16 | [2] Sept. 22 |
| Towner | 3.2 | 7.5 | 21.3 | 35.0 | 52.6 | 62.9 | 67.0 | 68.8 | | | | | | 97 | −37 | [1] May 16 | |
| University | 3.5 | 7.2 | 24.8 | 35.0 | 53.6 | 65.5 | 68.4 | 68.6 | 58.4 | 43.4 | 26.2 | 4.0 | 38.2 | 93 | −38 | [1] May 16 | Oct. 11 |
| *Wahpeton | 10.8 | 10.8 | 25.0 | 33.6 | 51.9 | 64.7 | 67.9 | 69.1 | 57.0 | 41.8 | 27.2 | 5.8 | 38.8 | 94 | −28 | [1] May 10 | [2] Sept. 5 |
| Wallialla | | | | | | | | [a]69.0 | 60.9 | 44.8 | | | | 101 | | | [2] Sept. 24 |
| Washburn | | | | | | | [a]67.8 | 70.4 | 61.6 | 44.4 | 30.5 | 4.9 | | 99 | | | [2] Aug. 31 |
| Westhope | −3.2 | 1.6 | 17.8 | 32.2 | 51.6 | 61.8 | [b]65.4 | 68.0 | 60.2 | 42.1 | 24.2 | 4.8 | 35.5 | 98 | −44 | [1] May 15 | Sept. 22 |
| *Williston | 4.4 | 11.3 | 27.0 | 34.1 | 51.6 | 62.4 | 67.7 | 68.6 | 60.5 | 41.8 | 28.3 | 6.8 | 38.7 | 99 | −37 | [1] May 15 | Aug. 29 |
| Willow City | −2.2 | 3.8 | 17.6 | 32.6 | 50.1 | 62.0 | 66.0 | 66.9 | 57.7 | 41.2 | 25.2 | 3.0 | 35.3 | 96 | −43 | [1] May 10 | [2] Sept. 20 |
| Wishek | 6.8 | 13.2 | ..... | 33.8 | 51.6 | 64.6 | 67.6 | 68.5 | 56.2 | 42.8 | [c]34.3 | 2.2 | ..... | 94 | −34 | [1] May 16 | Sept. 14 |
| *Ohio.* | | | | | | | | | | | | | | | | | |
| Akron | 30.6 | 31.4 | 33.6 | 46.8 | 57.4 | 68.8 | 69.8 | 71.0 | 62.9 | [d]47.6 | 47.8 | 24.8 | 49.4 | 90 | − 3 | May 2 | Oct. 3 |
| Amesville | 35.4 | 38.9 | 41.0 | [e]52.8 | 61.8 | 73.0 | 73.2 | 73.6 | 65.7 | 49.8 | 49.5 | 28.0 | 53.6 | 95 | − 8 | May 4 | Sept. 28 |
| *Bangorville | 30.0 | 32.6 | 34.8 | 47.4 | 57.2 | 68.6 | 69.8 | 71.2 | 61.9 | 47.5 | 47.8 | 24.2 | 49.4 | 91 | − 5 | May 4 | Oct. 12 |
| *Bellefontaine | 30.8 | 34.1 | 35.2 | 46.0 | 56.8 | 69.4 | 69.0 | 71.0 | 61.8 | 47.4 | 48.7 | 23.4 | 49.5 | 91 | −20 | May 11 | Sept. 28 |
| Benton Ridge | 31.0 | 33.0 | 36.8 | 48.3 | 58.1 | 70.4 | 71.6 | 72.6 | 62.7 | 48.0 | 48.8 | 25.0 | 50.5 | 93 | −11 | Apr. 28 | Sept. 28 |
| Bladensburg | 31.2 | 33.9 | 35.1 | 47.8 | 55.6 | [d]67.0 | 67.5 | 68.4 | 60.8 | 46.6 | 47.0 | 23.4 | 48.7 | 89 | −17 | May 12 | Sept. 26 |
| Bowling Green | 29.9 | 30.8 | 35.8 | 46.3 | 56.8 | 69.0 | 71.0 | 71.6 | 62.0 | 47.9 | 46.9 | 23.4 | 49.3 | 94 | −10 | May 5 | Oct. 13 |
| *Bucyrus | 29.6 | 32.0 | 35.2 | 46.9 | 56.0 | 68.5 | 69.6 | 70.7 | 60.8 | 45.7 | 48.6 | 22.8 | 48.9 | 92 | −12 | May 12 | Sept. 28 |
| Cadiz | 33.0 | 35.9 | 37.0 | 49.9 | 59.4 | 70.8 | 71.0 | 71.9 | 64.4 | 49.2 | 49.0 | 25.7 | 51.4 | 92 | − 5 | Apr. 28 | Oct. 13 |
| Cambridge | 32.7 | 37.0 | 39.0 | 49.8 | 58.8 | 69.2 | 69.4 | 70.2 | 63.8 | 48.5 | 48.8 | 27.2 | 51.2 | 90 | − 8 | May 12 | Sept. 28 |
| Camp Dennison | 35.0 | 39.3 | 41.5 | 53.0 | 61.2 | 73.1 | 72.8 | 74.4 | 65.3 | 49.8 | 51.4 | 26.8 | 53 6 | 95 | −11 | Apr. 28 | Sept. 28 |
| *Canal Dover | 30.6 | 34.6 | 36.4 | 48.4 | 57.6 | 69.6 | 69.6 | 69.6 | 60.8 | 46.4 | 47.0 | 25.2 | 49.6 | 92 | −19 | May 12 | Sept. 28 |
| *Canton | 31.8 | 34.0 | 35.2 | 47.2 | 57.2 | 68.8 | 69.2 | 69.7 | 61.6 | 47.1 | 46.8 | 23.7 | 49.4 | 89 | − 7 | Apr. 28 | Oct. 12 |
| Cardington | 32.4 | 33.6 | 36.4 | ..... | 57.1 | 69.2 | 70.0 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | May 2 | ..... |
| *Cincinnati | 35.7 | 40.1 | 42.2 | 53.4 | 62.2 | 74.2 | 74.0 | 76.1 | 67.2 | 52.7 | 53.1 | 28.0 | 54.9 | 95 | − 3 | Apr. 10 | Oct. 13 |
| *Circleville | 34.6 | [e]37.6 | 39.8 | 52.5 | 61.7 | 73.2 | 72.6 | 74.2 | 65.8 | 49.8 | 51.2 | 27.2 | 53.4 | 93 | − 5 | Apr. 24 | Oct. 13 |
| Clarington | 35.4 | 38.6 | 40.1 | 51.9 | 60.6 | 70.9 | 70.6 | 72.4 | 65.5 | 50.4 | 49.7 | 27.6 | 52.8 | 94 | − 4 | Apr. 24 | Oct. 13 |
| Clarksville | 33.6 | 38.4 | 40.1 | 52.0 | 61.4 | 72.8 | 72.4 | 74.4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Apr. 28 | ..... |
| *Cleveland | 31.2 | 32.4 | 33.6 | 45.9 | 55.8 | 66.8 | 69.8 | 70.1 | 62.1 | 48.7 | 47.6 | 24.6 | 49.0 | 91 | 1 | Apr. 15 | Nov. 24 |
| Cleveland | 31.0 | 31.8 | 34.0 | 45.4 | 56.4 | 67.8 | 70.8 | 70.8 | 62.2 | 47.8 | 46.6 | 24.7 | 49.1 | 92 | − 2 | Apr. 15 | Oct. 20 |
| *Columbus | 32.8 | 36.2 | 38.1 | 50.1 | 59.8 | 71.8 | 72.0 | 73.4 | 64.1 | 49.9 | 49.6 | 25.8 | 52.0 | 93 | − 4 | Apr. 11 | Oct. 13 |
| *Dayton | 33.0 | 37.7 | 39.8 | 50.7 | 60.3 | 72.6 | 72.2 | 74.4 | 64.3 | 50.0 | 51.0 | 26.4 | 52.7 | 95 | − 6 | Apr. 28 | Sept. 28 |
| *Defiance | 30.2 | 31.3 | 35.8 | 45.4 | 56.8 | 68.3 | 70.0 | 71.8 | 61.0 | 46.6 | 48.0 | 22.7 | 49.0 | 95 | −12 | May 4 | Sept. 28 |
| Delaware | 31.0 | 34.2 | 37.3 | 49.1 | 58.1 | 70.4 | 70.2 | 71.6 | 62.8 | 47.8 | 48.5 | 24.5 | 50.5 | 92 | −13 | Apr. 28 | Sept. 28 |
| Demos | 33.4 | 36.4 | 37.4 | 49.6 | 59.8 | 70.4 | 70.4 | 72.8 | 66.8 | 50.8 | 50.1 | 26.5 | 52.0 | 95 | − 3 | Apr. 28 | Oct. 13 |
| Dennison | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 72.0 | 65.4 | 49.2 | 49.0 | 26.7 | ..... | ..... | ..... | ..... | Oct. 13 |
| *Findlay | 29.2 | 30.7 | 35.2 | 47.5 | 57.8 | 70.0 | 71.6 | 72.8 | 62.2 | 46.2 | 46.6 | 22.8 | 49.4 | 95 | −14 | May 4 | Oct. 2 |
| Frankfort | 36.6 | 40.8 | 41.5 | 54.5 | 62.8 | 73.4 | 72.4 | 73.6 | 64.2 | 51.0 | 52.8 | 29.0 | 54.4 | 95 | − 5 | Apr. 24 | Oct. 13 |
| *Fremont | 31.4 | 32.6 | 37.1 | 48.0 | 58.0 | 70.2 | 72.1 | 72.5 | 62.8 | 48.2 | 48.8 | 25.0 | 50.6 | 94 | − 6 | Apr. 28 | Oct. 15 |
| Garretisville | 30.2 | 31.9 | 33.6 | 46.1 | 56.0 | 66.3 | 67.1 | 67.9 | 60.2 | 46.6 | 46.6 | 23.4 | 48.0 | 90 | −16 | May 12 | Sept. 28 |
| *Granville | 32.6 | 35.7 | 37.9 | 49.6 | 58.4 | 70.8 | 71.3 | 72.2 | 63.7 | 48.4 | 49.2 | 25.8 | 51.3 | 93 | −17 | Apr. 28 | Sept. 28 |
| Gratiot | 31.7 | 34.8 | 37.6 | 49.8 | 58.4 | 69.2 | 69.6 | 69.6 | 62.2 | 48.2 | 48.0 | 25.2 | 50.4 | 89 | −15 | May 8 | Sept. 28 |
| Green | 37.5 | 41.6 | 43.2 | 54.7 | 60.9 | 74.2 | 73.4 | 74.8 | 66.5 | 51.9 | 52.2 | 30.7 | 55.1 | 94 | − 5 | Apr. 24 | Oct. 13 |
| Green Hill | 30.4 | 33.0 | 33.8 | 46.0 | 55.6 | 66.6 | 66.8 | 67.8 | 60.6 | 45.8 | 46.1 | 23.2 | 48.0 | 89 | −15 | May 12 | Sept. 28 |
| *Greenville | 31.2 | 35.0 | 38.0 | 48.5 | 59.0 | 72.3 | 71.2 | 73.6 | 62.0 | 48.8 | 49.4 | 23.5 | 51.0 | 92 | − 9 | May 2 | Oct. 12 |
| Hedges | 30.8 | 31.7 | 35.8 | 47.6 | 57.0 | 68.8 | 70.6 | 72.6 | 61.1 | 47.5 | 48.1 | [c]22.8 | 49.5 | 95 | −10 | May 11 | Oct. 2 |
| Hillhouse | 30.2 | 30.4 | 31.7 | 44.8 | 55.4 | 65.9 | 68.4 | 69.1 | 60.8 | 48.3 | 47.8 | 24.2 | 48.1 | 90 | −11 | May 12 | Sept. 28 |
| Hillsboro | 34.3 | 37.0 | 39.4 | 50.7 | 59.0 | 70.8 | 70.5 | 72.6 | 63.9 | 50.1 | 51.4 | 27.8 | 52.3 | 90 | − 6 | Apr. 28 | Oct. 13 |
| Hiram | 30.0 | 31.6 | 33.0 | 46.0 | 57.4 | 67.3 | 69.2 | 69.8 | 61.4 | 47.8 | 46.6 | 23.6 | 48.6 | 89 | − 1 | May 2 | Oct. 13 |
| Hudson | 29.7 | 30.8 | 32.2 | 45.4 | 56.4 | 66.6 | 68.4 | 68.8 | 60.6 | ..... | 45.6 | 22.6 | ..... | 93 | −11 | May 12 | Sept. 28 |
| Ironton | 38.8 | 43.2 | 43.7 | 55.8 | 63.6 | [f]75.0 | 74.1 | 75.5 | 67.0 | 52.6 | 53.1 | 30.8 | 56.1 | 96 | 0 | Apr. 24 | Oct. 12 |
| Jacksonburg | 32.3 | 36.6 | 38.9 | 50.0 | 58.9 | 72.2 | 72.0 | 74.5 | 64.7 | 51.0 | 51.0 | 25.3 | 52.3 | 96 | −11 | May 1 | Oct. 12 |
| Kenton | 30.8 | 32.0 | 35.7 | 48.0 | 57.0 | 69.5 | 70.2 | 72.6 | 62.1 | 48.4 | 48.7 | 23.4 | 49.9 | 94 | − 9 | May 2 | Sept. 28 |
| Killbuck | 31.0 | 34.6 | 35.8 | 48.0 | 57.6 | 69.0 | 69.0 | 70.4 | 62.0 | 47.2 | 47.5 | 24.6 | 49.7 | 92 | − 3 | May 12 | Oct. 12 |
| Lancaster | 34.9 | 38.2 | 39.8 | 51.6 | 60.8 | 71.2 | 70.8 | 72.0 | 64.6 | 50.0 | 50.9 | 28.2 | 52.8 | 90 | − 8 | Apr. 24 | Oct. 13 |
| Lawshe | 36.2 | 39.0 | 41.8 | 53.8 | 62.0 | 72.8 | 72.4 | 73.6 | 65.0 | 49.4 | 50.7 | 27.8 | 53.7 | 95 | − 9 | Apr. 28 | Sept. 28 |
| *Lima | 30.4 | 34.1 | 36.8 | 48.6 | 59.0 | 69.6 | 71.1 | 73.6 | 61.8 | 49.2 | 49.0 | 24.2 | 50.6 | 91 | − 8 | May 2 | Oct. 1 |
| McConnelsville | 35.4 | 38.8 | 39.4 | 51.2 | 60.8 | 71.2 | 71.0 | 71.8 | 64.4 | 49.4 | 50.0 | 27.0 | 52.5 | 93 | − 2 | May 2 | Oct. 13 |
| Marietta | 38.5 | 41.0 | 42.8 | 54.6 | 63.3 | 73.8 | 73.9 | 74.3 | 66.0 | 51.3 | 51.5 | 30.9 | 55.2 | 95 | 2 | Apr. 24 | Oct. 13 |
| *Marion | 31.8 | 34.4 | 37.1 | 49.2 | 58.9 | 72.0 | 72.2 | 73.6 | 64.0 | 49.0 | 49.4 | 25.6 | 51.4 | 95 | − 8 | Apr. 28 | Oct. 13 |
| Medina | 30.6 | 31.8 | 34.5 | 47.4 | 57.3 | 68.0 | 68.9 | 70.6 | 62.2 | 47.9 | 47.0 | 23.9 | 49.2 | 93 | −15 | May 12 | Sept. 28 |
| Milfordton | 31.2 | 34.6 | 37.0 | 48.6 | 57.6 | 68.4 | 69.8 | 71.2 | 63.2 | 48.6 | 48.4 | 24.8 | 50.3 | 91 | − 8 | May 2 | Sept. 28 |
| Milligan | 33.6 | 36.2 | 39.4 | 50.6 | 58.4 | 70.8 | 70.8 | 70.4 | 62.5 | 47.4 | 48.2 | 25.8 | 51.2 | 93 | −15 | May 12 | Sept. 28 |
| Millport | 30.8 | 33.2 | 34.6 | 47.3 | 57.0 | 67.8 | 67.9 | 69.4 | 61.6 | 46.8 | 46.6 | 23.7 | 48.9 | 90 | −12 | May 12 | Sept. 28 |
| *Montpelier | 28.8 | 30.6 | 34.6 | 46.4 | 57.4 | 68.6 | 71.2 | 72.3 | 61.8 | 47.6 | 47.0 | 22.4 | 49.1 | 94 | − 7 | May 4 | Sept. 28 |
| *Napoleon | 30.7 | 31.8 | 36.8 | 47.4 | 57.9 | 69.4 | 71.6 | 72.8 | 62.6 | 49.1 | 48.2 | 23.8 | 50.2 | 94 | − 7 | May 4 | Oct. 13 |
| Nellie | 32.4 | [e]35.5 | 37.8 | 49.4 | 59.4 | 69.6 | 68.9 | 71.8 | 62.1 | 47.5 | 45.2 | 25.5 | 50.4 | 91 | − 7 | May 11 | Sept. 28 |
| New Alexandria | 35.3 | 35.0 | 37.7 | 49.4 | 60.6 | 70.3 | 68.8 | 70.6 | 64.8 | 50.0 | 51.0 | 25.6 | 51.6 | 97 | − 4 | May 12 | Oct. 13 |
| New Berlin | 30.8 | 33.2 | 34.4 | 47.3 | 57.4 | 68.8 | 68.9 | 70.0 | 62.4 | 47.9 | [a]47.6 | 24.0 | 49.4 | 92 | −12 | May 12 | Sept. 28 |
| New Bremen | 31.2 | 34.2 | 37.5 | 50.0 | 58.8 | 70.9 | 71.2 | 73.0 | 63.6 | 49.2 | 49.4 | 23.8 | 51.1 | 91 | −10 | May 2 | Oct. 13 |
| New Richmond | 36.2 | 40.2 | 41.8 | 53.8 | 61.8 | 73.5 | 72.9 | 75.0 | ..... | ..... | ..... | ..... | ..... | 94 | ..... | Apr. 11 | ..... |
| New Waterford | 30.2 | 33.0 | 35.0 | 47.6 | 58.4 | 69.7 | 68.6 | 69.9 | 61.3 | 47.0 | 46.6 | 24.2 | 49.3 | 92 | −10 | May 12 | Sept. 28 |
| North Royalton | 30.0 | 31.8 | 33.2 | 46.1 | 56.4 | 66.9 | 69.0 | 70.0 | 61.2 | 47.6 | 48.1 | 23.6 | 48.7 | 92 | −10 | May 2 | Oct. 13 |
| *Norwalk | 30.4 | 30.1 | 34.4 | 46.7 | 57.1 | 69.2 | 70.2 | 71.2 | 61.7 | 48.4 | 48.8 | 25.6 | 49.5 | 94 | −15 | May 12 | Oct. 13 |
| Oberlin | 31.4 | 31.9 | 35.2 | 47.0 | 57.4 | 68.4 | 69.6 | 70.7 | 62.4 | 47.8 | 47.8 | 25.4 | 49.6 | 93 | −15 | May 12 | Oct. 13 |
| Ohio State University | 32.4 | 36.2 | 38.6 | 50.4 | 59.5 | 71.0 | 70.8 | 72.2 | 63.7 | 48.6 | 49.8 | 25.8 | 51.6 | 92 | −12 | Apr. 24 | Oct. 2 |
| Orangeville | 30.2 | 31.8 | 32.8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Ottawa | 30.1 | 32.7 | 36.1 | 48.1 | 57.6 | 69.7 | 71.2 | 72.7 | 61.6 | 47.7 | 47.8 | 23.4 | 49.9 | 94 | −12 | May 4 | Sept. 28 |
| Pataskala | 32.0 | 35.2 | ..... | 49.2 | 58.8 | 70.1 | 70.3 | 71.2 | 62.8 | 48.0 | 48.6 | 25.4 | ..... | 91 | −14 | Apr. 28 | Oct. 13 |
| Philo | 33.8 | 36.9 | 38.9 | 51.2 | 59.8 | 70.2 | 70.8 | 71.6 | 63.8 | 49.9 | 50.8 | 26.4 | 52.0 | 92 | − 2 | Apr. 24 | Oct. 13 |
| Plattsburg | 32.2 | 36.2 | 37.3 | 49.9 | 59.6 | 71.6 | 69.4 | 72.4 | 63.4 | 48.7 | 49.1 | 24.8 | 51.2 | 90 | −10 | May 2 | Sept. 28 |
| *Pomeroy | 36.2 | 38.4 | ..... | ..... | ..... | ..... | 72.8 | 74.7 | 68.0 | 53.6 | 53.7 | 29.8 | ..... | ..... | − 2 | ..... | Oct. 13 |
| *Portsmouth | 37.3 | 41.5 | 43.6 | 54.2 | 62.8 | 73.8 | 73.2 | 74.2 | 65.6 | 51.5 | 51.5 | 29.0 | 54.8 | 95 | − 1 | Apr. 11 | Oct. 13 |
| Rittman | 30.2 | 32.5 | 34.2 | 48.2 | 56.8 | 68.4 | 68.8 | [a]70.0 | ..... | 47.8 | 46.1 | 24.2 | ..... | 93 | −11 | May 11 | Sept. 27 |

[1] No killing frost recorded; last freezing temperature in spring.

[2] No killing frost recorded; first freezing temperature in fall.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *Ohio*—Continued. | | | | | | | | | | | | | | | | | |
| Rocky Ridge | 30.6 | 31.4 | 35.4 | 47.0 | 57.6 | 68.9 | 71.2 | 72.3 | 63.4 | 47.8 | [e]49.2 | 24.6 | 50.0 | 95 | — 7 | May 4 | Oct. 13 |
| Rome | 29.4 | 30.1 | 33.2 | 46.0 | 56.6 | 66.5 | 67.0 | 68.2 | 60.0 | ..... | 45.5 | 25.8 | ..... | 92 | —17 | May 12 | Sept. 28 |
| *Sandusky | 31.3 | 32.0 | 35.2 | 46.4 | 57.0 | 68.6 | 71.8 | 72.8 | 63.4 | 48.7 | 48.4 | 24.2 | 50.0 | 93 | — 3 | Apr. 24 | Oct. 13 |
| Shenandoah | 29.4 | 30.8 | 33.0 | 45.6 | 55.3 | 66.5 | 68.2 | 69.6 | 61.0 | 46.0 | 45.5 | 21.9 | 47.7 | 92 | —10 | May 12 | Sept. 28 |
| *Sidney | 31.8 | 35.2 | 38.2 | 50.4 | 59.8 | 71.9 | 72.2 | 74.2 | 63.9 | 51.1 | 50.6 | 25 0 | 52.0 | 93 | —10 | Apr. 28 | Sept. 28 |
| *Somerset | 31.6 | 34.4 | 37.6 | 50.5 | 60.2 | 71.8 | 72.0 | 73.1 | 64.4 | 49.2 | 48.6 | 24.2 | 51.5 | 93 | — 7 | Apr. 24 | Oct. 13 |
| Summerfield | 34.4 | 37.8 | 38.6 | 50.6 | 59.2 | 70.4 | 69.8 | 70.3 | 63.2 | 48.2 | 49.6 | 26.6 | 51.6 | 93 | — 6 | May 12 | Sept. 28 |
| Thurman | 38.3 | 41.0 | 42.4 | 54.8 | 63.5 | 72.1 | 72.2 | 73.8 | [e]67.4 | 52.5 | 53.2 | 29.8 | 55.1 | 95 | — 3 | Apr. 15 | Oct. 13 |
| *Tiffin | 31.1 | 32.8 | 36.0 | 47.6 | 57.0 | 69.6 | 71.4 | 73.0 | 62.5 | 48.3 | 48.3 | 24.8 | 50.2 | 93 | — 6 | Apr. 28 | Sept. 28 |
| *Toledo | 30.6 | 31.4 | 35.6 | 46.0 | 57.4 | 68.8 | 71.6 | 72.6 | 62.2 | 48.5 | 46.8 | 24.4 | 49.7 | 92 | 0 | Apr. 28 | Oct. 13 |
| Toledo (St. John's College) | 30.8 | 32.0 | 35.5 | 46.4 | 57.2 | 68.8 | 70.7 | 72.2 | 62.0 | 48.0 | 47.3 | 24.4 | 49.6 | 92 | — 2 | May 2 | Oct. 13 |
| *Upper Sandusky | 31.4 | 33.8 | 36.6 | 49.2 | 59.0 | 70.0 | 71.3 | 72.4 | 63.0 | 49.2 | 50.3 | 25.2 | 51.0 | 92 | —10 | Apr. 28 | Sept. 28 |
| Urbana | 31.2 | 34.8 | 38.1 | 49.8 | 59.2 | 71.8 | 71.4 | 73.5 | 63.0 | 49.0 | 49.8 | 24.4 | 51.3 | 94 | —14 | Apr. 28 | Sept. 28 |
| Vickery | 30.8 | 31.6 | 36.0 | 47.0 | 57.2 | 69.4 | 70.5 | 72.3 | 62.6 | 47.6 | 48.2 | 24.0 | 49.8 | 95 | —15 | May 12 | Oct. 13 |
| Warren | 31.4 | 32.3 | [d]33.9 | 47.3 | 57.2 | [d]67.0 | 69.7 | 70.2 | 62.2 | 47.5 | [f]45.6 | 25.0 | 49.1 | 93 | — 6 | May 12 | Sept. 28 |
| *Wauseon | 28.1 | 29.5 | 33.7 | 44.8 | 56.8 | 68.4 | 70.3 | 71.4 | 61.1 | 46.8 | 46.4 | 22.9 | 48.4 | 92 | —11 | May 4 | Oct. 1 |
| *Waverly | 36.2 | 40.2 | 41.6 | 52.8 | 61.5 | 73.3 | 72.6 | 74.2 | 64.9 | 51.0 | 52.0 | 28.8 | 54.1 | 96 | — 8 | Apr. 24 | Sept. 28 |
| Waynesville | 33.0 | 37.2 | 39.8 | 51.2 | 59.2 | 71.0 | 69.9 | 71.4 | 63.9 | 50.0 | 52.0 | 25.6 | 52.0 | 88 | —10 | May 2 | Oct. 13 |
| Wellington | 31.6 | 32.1 | 35.3 | 47.8 | 58.0 | 69.3 | 70.4 | 71.4 | 62.3 | 48.0 | 48.0 | 25.0 | 49.9 | 94 | —16 | May 4 | Oct. 13 |
| *Wooster | 31.8 | 33.6 | 35.9 | 48.4 | 57.9 | 69.3 | 69.6 | 70.4 | 62.2 | 47.8 | 48.4 | 25.3 | 50.0 | 90 | —11 | May 12 | Oct. 17 |
| *Oklahoma.* | | | | | | | | | | | | | | | | | |
| Ada | 41.6 | 45.8 | ..... | 60.4 | 68.3 | 76.8 | 85.8 | 84.8 | ..... | ..... | ..... | ..... | ..... | 109 | 8 | Apr. 22 | ..... |
| Alva | 36.8 | 44.8 | 48.8 | 58.2 | 65.0 | ..... | ..... | ..... | ..... | ..... | 50.3 | ..... | ..... | ..... | 0 | ..... | ..... |
| Apache | ..... | ..... | ..... | ..... | ..... | ..... | 85.6 | 84.7 | 75.0 | 63.4 | 57.2 | 34.2 | ..... | 112 | ..... | ..... | Nov. 14 |
| Arapaho | ..... | ..... | ..... | ..... | 68.8 | 76.8 | 84.0 | 84.0 | 74.1 | 62.6 | 55.0 | 32.5 | ..... | 111 | ..... | May 1 | Nov. 16 |
| *Ardmore | 44.8 | 47.9 | 53.7 | 61.6 | 71.0 | 79.1 | 87.7 | 85.8 | 77.4 | 65.8 | 59.5 | 34.4 | 64.0 | 111 | 4 | Apr. 9 | Nov. 17 |
| Bartlesville | ..... | 42.4 | 47.4 | 57.4 | 66.0 | 78.1 | 82.2 | 83.9 | 75.1 | 62.0 | 57.5 | 29.2 | ..... | 111 | ..... | May 1 | Oct. 12 |
| Beaver | 35.0 | 41.8 | 45.4 | 57.2 | 63.3 | 77.4 | 84.0 | 85.0 | 72.6 | 58.7 | 50.6 | 27.0 | 58.2 | 108 | —12 | May 1 | Oct. 27 |
| Blackburn | 38.4 | 44.6 | 50.0 | 60.8 | 66.9 | 77.0 | 82.3 | 82.7 | 74.2 | 62.8 | 50.8 | 30.2 | 60.6 | 110 | — 6 | May 1 | Sept. 29 |
| Cache | 39.0 | 40.4 | 48.0 | 58.2 | 65.8 | 76.0 | 82.8 | 80.2 | 71.0 | 59.7 | 54.3 | 32.2 | 59.0 | 104 | — 2 | Apr. 30 | Sept. 27 |
| *Chandler | 40.9 | ..... | 49.6 | 60.8 | 67.6 | 77.8 | 84.4 | 84.4 | 74.6 | 59.3 | 57.8 | 32.6 | ..... | 112 | 1 | Apr. 23 | Oct. 23 |
| Chattanooga | 43.3 | 46.2 | 53.2 | 63.4 | 69.9 | 77.2 | 79.8 | 81.6 | 75.2 | 67.1 | 56.8 | 34.8 | 62.4 | 104 | 3 | May 1 | Nov. 9 |
| Chickasha | 42.0 | 47.6 | 53.0 | 64.1 | 69.4 | 79.0 | 85.6 | 85.4 | 77.0 | 64.9 | 58.8 | 35.2 | 63.5 | 112 | — 3 | Apr. 9 | Nov. 16 |
| Cloud Chief | 40.8 | 46.5 | 51.7 | 61.8 | 68.8 | 78.9 | 86.6 | 85.6 | 76.0 | 64.1 | 55.0 | 34.3 | 62.5 | 112 | — 2 | May 1 | Nov. 14 |
| Dacoma | 34.4 | 43.4 | 47.6 | 58.2 | 66.2 | 76.0 | 82.2 | 81.1 | 71.6 | 59.2 | 52.9 | 33.0 | 58.8 | 102 | — 7 | May 1 | Nov. 14 |
| *Durant | 43.0 | 45.6 | 53.0 | 61.0 | 68.9 | 78.2 | 85.8 | 84.8 | 76.9 | 64.2 | 58.8 | 34.0 | 62.8 | 111 | 3 | Apr. 13 | Nov. 17 |
| Eldorado | 41.9 | 48.1 | ..... | ..... | 70.4 | 78.2 | 86.4 | 87.2 | 79.6 | 67.6 | 60.2 | ..... | ..... | 108 | — 2 | ..... | ..... |
| El Reno | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 58.2 | 54.0 | 30.6 | ..... | ..... | ..... | ..... | Nov. 14 |
| *Enid | 34.8 | 41.0 | 46.6 | 57.7 | 66.2 | 77.5 | 84.6 | 84.4 | 73.8 | 60.0 | 52.4 | 29.6 | 59.0 | 113 | — 2 | May 1 | Nov. 15 |
| Erick | 38.0 | 43.0 | 48.6 | 59.4 | 66.8 | 76.3 | 83.8 | 83.4 | 74.9 | 62.0 | ..... | 32.5 | ..... | 111 | — 3 | May 1 | Nov. 14 |
| Fairland | 39.7 | 43.6 | 49.4 | 59.8 | 66.2 | 75.3 | 81.8 | 84.1 | 75.8 | 62.6 | 59.0 | 30.6 | 60.7 | 110 | —12 | Apr. 23 | Oct. 12 |
| Frederick | ..... | ..... | ..... | ..... | ..... | 78.1 | 85.5 | 84.4 | 75.2 | 64.4 | 56.6 | 34.6 | ..... | 108 | ..... | ..... | Nov. 14 |
| Gage | 34.7 | 40.1 | 44.4 | 55.7 | 65.1 | 74.9 | 81.6 | 81.6 | 72.3 | 58.3 | 49.2 | 30.1 | 57.3 | 110 | —10 | May 1 | Oct. 25 |
| Guthrie | 38.1 | 45.1 | 49.8 | 61.2 | ..... | 78.8 | 83.8 | 84.8 | 75.4 | 62.6 | 56.2 | 34.4 | ..... | 112 | — 2 | Apr. 13 | Nov. 14 |
| Harrington | 39.7 | 44.1 | 49.1 | 59.6 | 66.2 | 74.2 | 80.0 | 80.9 | 72.3 | 60.8 | 50.7 | 31.7 | 59.1 | 108 | 0 | May 1 | Nov. 14 |
| Hartshorne | 42.1 | 48.4 | 52.7 | 62.5 | 69.6 | 79.0 | 85.0 | 85.2 | 77.4 | 66.0 | 62.0 | 35.0 | 63.7 | 110 | 4 | Apr. 13 | Oct. 24 |
| Healdton | 43.0 | 46.2 | 51.2 | 60.9 | 67.7 | 76.8 | 84.5 | 82.1 | 74.2 | 63.4 | 58.3 | 33.2 | 61.8 | 107 | — 5 | May 1 | Oct. 24 |
| Hennessey | 38.4 | 45.4 | 48.8 | 57.8 | 67.0 | 77.6 | 83.0 | 86.2 | 75.6 | 62.0 | 54.6 | 30.4 | 60.6 | 112 | 2 | Apr. 23 | Nov. 14 |
| Hobart | 41.0 | 46.0 | 51.5 | 61.6 | 69.4 | ..... | 86.2 | 84.9 | 75.2 | 62.4 | 54.2 | 33.6 | ..... | 108 | 2 | May 1 | Nov. 14 |
| *Holdenville | 40.6 | 44.4 | 50.6 | 59.4 | 67.4 | 76.2 | 84.2 | 83.8 | 74.6 | 63.0 | 58.2 | 32.8 | 61.3 | 108 | 2 | Apr. 13 | Nov. 17 |
| Hooker | 36.4 | 40.4 | 44.0 | 54.8 | 62.9 | 71.8 | 78.4 | 79.0 | 68.9 | 54.8 | 47.3 | 28.3 | 55.6 | 101 | —13 | May 2 | Oct. 27 |
| Hurley | 37.2 | 38.0 | 41.2 | 50.6 | 61.1 | 72.9 | 78.0 | 78.0 | 65.5 | 54.1 | 43.6 | 26.1 | 53.9 | 105 | — 4 | Apr. 30 | Oct. 7 |
| Idabel | 48.2 | 50.3 | 55.8 | 61.8 | 71.8 | 77.8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Mar. 15 | ..... |
| Jefferson | 34.8 | 40.0 | 46.4 | 58.3 | 65.6 | 77.0 | 83.2 | 82.8 | 72.5 | 59.9 | 52.5 | 29.0 | 58.5 | 107 | — 4 | May. 1 | Oct. 12 |
| Kenton | 38.9 | 37.1 | 42.6 | 51.4 | 59.1 | 72.6 | 78.0 | 77.6 | 67.7 | 55.7 | 46.8 | 26.7 | 54.5 | 101 | — 1 | May 9 | Oct. 23 |
| Kingfisher | 39.0 | 45 2 | 50.2 | 61.4 | 68.3 | 78.6 | 84.4 | 84.6 | 75.5 | 63.4 | 56.4 | 32.6 | 61.6 | 112 | — 1 | May 1 | Nov. 16 |
| McAlester | 44.2 | 48.0 | 54.0 | 63.0 | 69.6 | 77.6 | 85.3 | ..... | ..... | 65.0 | 62.3 | 35.5 | ..... | ..... | 3 | Apr. 13 | Nov. 17 |
| McComb | ..... | 46.6 | 52.1 | 61.6 | 69.2 | 77.6 | 84.8 | 83.6 | 75.8 | 62.2 | 60.0 | 33.2 | ..... | 108 | ..... | Apr. 30 | Oct. 24 |
| *Mangum | ..... | ..... | ..... | 61.6 | 68.2 | 77.6 | 85.8 | 84.4 | 73.7 | 60.6 | 52.2 | ..... | ..... | 108 | ..... | May. 1 | Nov. 16 |
| *Marlow | 41.2 | 43.5 | 52.0 | 59.0 | 67.9 | 77.3 | 84.4 | 84.1 | 76.5 | 63.8 | 57.7 | 32.7 | 61.7 | 109 | 1 | Apr. 13 | Nov. 16 |
| Meeker | 40.4 | 46.2 | 48.8 | 58.2 | 65.0 | 76.6 | 83.8 | 84.2 | 74.6 | 61.6 | 57.4 | 33.5 | 60.9 | 112 | — 2 | May 1 | Oct. 24 |
| Muskogee | 40.4 | 46.2 | 51.0 | 61.7 | 67.7 | 76.8 | 84.2 | 86.0 | 77.1 | 64.5 | 60.0 | 33.6 | 62.4 | 114 | — 5 | Apr. 13 | Oct. 12 |
| Mutual | 36.3 | 43.4 | 46.6 | 58.1 | ..... | 77.3 | 83.6 | 83.3 | 74.2 | 61.0 | 52.0 | 32.6 | ..... | 111 | 0 | ..... | Nov. 14 |
| Neola | 40.5 | 46.0 | 50.8 | 60.8 | 67.6 | 76.3 | 84.8 | 84.0 | 75.2 | 62.8 | 55.6 | 32.2 | 61.4 | 108 | — 2 | May 1 | Nov. 14 |
| Newkirk | 34.5 | 41.8 | 46.8 | 57.6 | 67.2 | 78.9 | 84.0 | 85.0 | 75.2 | 61.9 | 54.2 | 27.8 | 59.6 | 112 | — 5 | May 2 | Nov. 15 |
| Norman | 41.1 | 45.8 | 51.8 | 61.3 | 69.1 | 77.5 | 84.4 | 86.4 | 75.0 | 64.1 | 56.8 | 33.2 | 62.2 | 114 | — 1 | Apr. 23 | Nov. 16 |
| Oakwood | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 58.9 | 52.4 | 30.1 | ..... | ..... | ..... | ..... | Nov. 14 |
| Okeene | 37.0 | 39.2 | ..... | ..... | ..... | ..... | 84.9 | 85.0 | 75.1 | 61.6 | 54.0 | 31.7 | ..... | 111 | — 4 | ..... | Nov. 14 |
| *Oklahoma | 37.6 | 43.6 | 49.2 | 58.4 | 66.8 | 76.6 | 83.3 | 83.0 | 74.9 | 62.3 | 56.1 | 31.0 | 60.2 | 108 | — 2 | Apr. 23 | Nov. 17 |
| Okmulgee | 40.2 | 48.9 | 49.7 | 61.9 | 66.6 | 76.1 | 81.0 | 82.4 | 76.4 | 62.2 | 59.0 | 32.7 | 61.4 | 105 | 1 | May 1 | Oct. 24 |
| Pauls Valley | 44.3 | 46.5 | 49.8 | 59.4 | 68.4 | 78.4 | 85.4 | 83.4 | 73.8 | 63.9 | 59.6 | ..... | ..... | 109 | 0 | Apr. 23 | Oct. 24 |
| Pawhuska | 39.6 | 43.9 | 49.5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 57.0 | 30.9 | ..... | ..... | 2 | ..... | Oct. 24 |
| Perry | 37.0 | 43.7 | 48.2 | 60 3 | 66.4 | 76.6 | 82.4 | 83.4 | 76.1 | 63.0 | 56.2 | 31.2 | 60.4 | 113 | — 3 | May 1 | Nov. 14 |
| Ravia | 45.4 | 48.6 | 55.8 | 63.0 | 70.4 | 78.4 | 86.7 | 86.0 | 77.0 | 65.6 | 60.2 | 33.8 | 64.2 | 113 | 0 | Apr. 13 | Nov. 17 |
| Sac and Fox Agency | 40.6 | 46.3 | 51.4 | ..... | 68.1 | 76.6 | 81.0 | 84.4 | 77.0 | ..... | 57.4 | 32.8 | ..... | 109 | — 4 | ..... | Nov. 16 |
| *Shawnee | 39.8 | 42.8 | 49.8 | 59.0 | 66.6 | 76.4 | 84.0 | 83.4 | 75.2 | 62.6 | 56.7 | 31.6 | 60.7 | 110 | — 1 | May 1 | Nov. 16 |
| Snyder | 41.9 | 47.0 | 52.9 | 61.7 | 70.0 | 78.1 | 85.4 | 84.4 | 76.2 | 64.2 | 56.6 | 34.0 | 62.7 | 107 | — 1 | May 1 | Nov. 16 |
| *Stillwater | 35.8 | 39.7 | 46.4 | 57.1 | 65.0 | 76.5 | 82.7 | 82.2 | 73.6 | 60.6 | 54.6 | 29.3 | 58.6 | 108 | — 2 | May 1 | Nov. 16 |
| Supply | 35.8 | 42.8 | 45.6 | 56.1 | 65.0 | 75.8 | 82.8 | 82.2 | 72.7 | 55.3 | 47.8 | 29.8 | 57.6 | 112 | —10 | May 2 | Oct. 11 |
| *Tulsa | 37.2 | 43.0 | 49.2 | 58.8 | 66.0 | 77.0 | 82.5 | 84.8 | 75.5 | 62.1 | 56.2 | 32.2 | 60.4 | 109 | — 2 | May 1 | Oct. 13 |
| Vinita | 38.6 | 42.8 | 47.9 | 59.2 | 65.5 | 75.6 | 81.6 | 81.8 | 75.5 | 61.7 | 57.9 | 32.0 | 60.0 | 110 | —15 | Apr. 2 | Oct. 12 |
| Wagoner | 38.6 | 45.6 | 49.8 | 59.8 | 66.0 | 76.4 | 84.2 | 84.4 | 78.0 | 63.2 | 59.0 | 30.6 | 61.3 | 112 | — 6 | May 1 | Oct. 12 |
| Waukomis | 36.2 | 43.3 | 49.6 | 61.4 | 66.6 | 76.4 | 83.2 | 83.6 | 74.3 | 61.6 | 54.1 | 32.1 | 60.2 | 112 | — 3 | May 1 | Nov. 13 |
| *Weatherford | 41.6 | 45.6 | 50.4 | 61.4 | 70.4 | 80.4 | 86.0 | 85.7 | 75.4 | 63.8 | 54.2 | 33.2 | 62.3 | 112 | 2 | May 1 | Nov 14 |
| *Webbers Falls | 41.7 | 46.0 | 50.9 | 60.6 | 67.2 | 76.7 | 83.2 | 83.5 | 74.6 | 61.6 | 58.6 | 31.9 | 61.4 | 110 | — 1 | May 1 | Oct. 13 |
| Whiteagle | 36.8 | 42.8 | 48.2 | 60.0 | 66.4 | 77.2 | 82.5 | 83.6 | 75.4 | 63.5 | 55.4 | 30.1 | 60.2 | 111 | — 6 | May 1 | Oct. 12 |
| Woodward | 35.8 | 43.3 | 46.2 | 57.2 | 65.0 | 75.8 | 82.5 | 82.9 | 73.2 | 59.4 | 51.6 | 30.4 | 58.6 | 111 | — 8 | May 2 | Oct. 10 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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.* | | | | | | | | | | | | | | | | | |
| *Albany | 34.9 | 43.2 | 46.0 | 50.4 | 53.2 | 61.2 | 62.8 | 63.5 | 61.4 | 53.8 | 46.6 | 35.4 | 51.0 | 95 | − 3 | May 5 | Nov. 11 |
| Ashland | 40.6 | 41.4 | 45.0 | 50.6 | 54.2 | 63.2 | 66.4 | 69.0 | 64.2 | 54.4 | 45.1 | 37.6 | 52.6 | 97 | 14 | May 23 | Nov. 6 |
| *Baker City | 30.3 | 34.5 | 40.6 | 41.3 | 48.4 | 59.8 | 63.3 | 65.6 | 58.0 | 48.6 | 38.3 | 19.2 | 45.7 | 97 | − 6 | May 18 | Oct. 7 |
| Bay City | 43.8 | 45.6 | 48.8 | 50.2 | 52.4 | 56.5 | 60.2 | 58.2 | 56.4 | 53.4 | 48.8 | 40.3 | 51.2 | 86 | 17 | May 21 | Nov. 6 |
| Birch Creek | ..... | 38.5 | ..... | 46.4 | 55.0 | 62.6 | 66.9 | 69.1 | 61.8 | ..... | 41.8 | 27.7 | ..... | 100 | ..... | May 12 | Oct. 8 |
| Blackbutte | 35.8 | 41.0 | 43.4 | 46.3 | 51.4 | 60.0 | 59.6 | 60.6 | 57.8 | 49.8 | 43.9 | 34.0 | 48.6 | 90 | 5 | May 21 | Nov. 6 |
| Blalock | c25.4 | 42.9 | 49.8 | c54.3 | 61.7 | 71.8 | 74.6 | 75.2 | 69.9 | 57.0 | 44.8 | 29.8 | ..... | 103 | −19 | Apr. 18 | Nov. 7 |
| Buckhorn Farm | 39.2 | 42.0 | 45.2 | 49.8 | 55.6 | 61.6 | 64.8 | b66.8 | 62.6 | b53.7 | 45.7 | 35.4 | 51.7 | 101 | 15 | May 23 | Nov. 11 |
| Burns | 28.9 | 31.8 | 38.7 | 41.9 | 49.0 | 59.2 | 66.1 | 66.2 | 57.6 | 44.8 | 37.2 | 16.4 | 44.8 | 100 | −11 | (1) | (1) |
| *Cascade Locks | 27.2 | 39.8 | 46.0 | 49.6 | 54.8 | 61.6 | 64.0 | 64.4 | 62.3 | 53.5 | 44.1 | 31.4 | 49.9 | 90 | − 2 | Apr. 21 | Nov. 14 |
| Cazadero | 34.4 | 43.8 | 46.8 | 50.2 | 49.2 | b61.4 | 62.6 | 63.9 | 62.6 | 53.0 | 45.8 | 35.7 | 50.8 | 93 | − 2 | Apr. 7 | Nov. 14 |
| Christmas Lake | 29.4 | 32.0 | 36.2 | 38.4 | 43.4 | 53.8 | 57.2 | 57.8 | 50.8 | 44.2 | 40.4 | 21.8 | 42.1 | 96 | −20 | (1) | (1) |
| Condon | 21.1 | 36.0 | 40.3 | 43.4 | 49.4 | 59.6 | 62.0 | 62.8 | 58.5 | 48.4 | 38.8 | 22.6 | 45.2 | 90 | −20 | Apr. 23 | Sept. 29 |
| Dayville | 31.5 | 40.9 | 44.4 | 49.2 | 56.0 | 65.3 | 68.8 | 67.1 | 62.0 | 50.8 | 44.0 | 28.8 | 50.7 | 102 | −25 | May 23 | Aug. 28 |
| Doraville | 31.3 | 39.2 | 43.8 | 46.2 | 50.2 | 58.0 | 58.4 | 60.6 | 58.8 | 51.2 | 42.7 | 32.4 | 46.9 | 89 | 0 | May 21 | Nov. 14 |
| Drain | 39.0 | 44.8 | 47.6 | 51.0 | 53.2 | 60.6 | 63.5 | 64.2 | 62.4 | 55.2 | 47.9 | 37.0 | 52.2 | 96 | 8 | May 5 | Nov. 14 |
| Echo | b23.8 | 43.0 | 47.6 | 51.2 | 59.6 | 68.6 | 72.2 | 71.3 | c65.6 | 54.2 | 43.3 | 28.0 | 52.4 | 106 | −23 | Apr. 19 | Oct. 17 |
| Ella | 23.2 | 41.4 | 46.6 | 50.7 | 57.0 | 67.6 | 70.4 | 71.8 | 67.1 | 54.4 | 42.8 | 27.8 | 51.7 | 103 | −29 | May 9 | Oct. 17 |
| *Eugene | 36.6 | 44.4 | 48.1 | 49.6 | 53.8 | 60.7 | 62.8 | 64.2 | 61.9 | 54.3 | 46.9 | 34.6 | 51.5 | 92 | 6 | Apr. 21 | Nov. 14 |
| Fairview | 44.6 | 45.5 | 48.0 | 48.2 | 52.6 | 55.4 | 55.8 | 57.6 | 55.2 | 50.0 | 44.4 | 41.4 | 49.9 | 105 | 18 | May 2 | Sept. 16 |
| Forest Grove | 29.2 | 42.2 | 45.8 | 49.5 | 54.4 | 60.3 | 63.7 | ..... | ..... | 50.9 | 44.3 | 33.6 | ..... | (2) | −11 | May 20 | Oct. 7 |
| Gardiner | 44.4 | 46.6 | 48.0 | 50.1 | 54.2 | 58.8 | 60.3 | 60.2 | 59.4 | 55.0 | 46.8 | c40.2 | 52.0 | 100 | 20 | Feb. 19 | Nov. 14 |
| Glendale | 38.4 | 40.8 | 46.2 | 50.2 | 52.6 | ..... | 63.4 | 66.2 | d63.4 | 54.6 | 46.1 | 38.0 | ..... | 101 | 14 | May 10 | Nov. 16 |
| Glenora | 32.1 | 38.2 | a43.8 | 46.0 | 49.4 | 56.8 | 58.4 | 60.1 | 59.6 | 50.8 | 42.2 | 32.0 | 47.4 | 95 | 3 | June 6 | Sept. 18 |
| Gold Beach | 47.8 | 48.0 | 47.2 | a46.3 | 45.8 | ..... | 52.8 | 56.6 | 56.4 | 53.6 | 50.4 | 46.2 | ..... | 86 | 21 | Apr. 24 | Nov. 14 |
| Granite | 26.4 | 28.8 | 34.4 | 38.2 | 43.8 | 53.3 | 57.0 | 57.6 | 54.0 | 45.2 | 34.6 | 18.0 | 40.9 | 93 | −20 | (1) | (1) |
| Grants Pass | a40.2 | 42.8 | 46.5 | 50.4 | 54.4 | 62.8 | 66.6 | 67.6 | 63.4 | 54.0 | 46.4 | 35.0 | 52.5 | 104 | 17 | May 23 | Sept. 22 |
| Grass Valley | 19.6 | 37.0 | 42.1 | 40.9 | 49.4 | 55.5 | 59.0 | 56.1 | 55.6 | 56.4 | 43.0 | 22.6 | 44.8 | 90 | −30 | (1) | (1) |
| Greenleaf | 36.2 | 41.9 | 45.4 | a43.9 | 50.8 | 58.0 | 60.4 | 61.1 | 60.4 | 53.0 | 44.6 | 34.6 | 49.6 | 91 | 11 | May 7 | Nov. 14 |
| Headworks | 31.2 | 39.4 | 43.8 | 46.8 | 51.4 | 59.2 | 60.2 | 61.2 | 59.8 | 51.6 | 43.0 | 33.2 | 49.2 | 90 | 1 | May 21 | Nov. 14 |
| Heppner | 24.9 | 40.5 | a44.7 | f46.4 | 54.4 | e60.5 | 65.0 | 66.0 | 62.0 | b54.4 | 46.0 | ..... | ..... | 98 | −19 | May 10 | Oct. 7 |
| Hermiston | 21.8 | 42.0 | 46.8 | 52.6 | 50.8 | 68.8 | 71.4 | 70.1 | 64.8 | 52.2 | 42.2 | 27.9 | 51.7 | 102 | −29 | May 9 | Oct. 15 |
| Hood River | 24.2 | 38.0 | 44.2 | 49.1 | 53.4 | 62.8 | 65.0 | 64.4 | 62.0 | 52.6 | 41.2 | 26.5 | 48.6 | 101 | −18 | May 9 | Oct. 15 |
| Huntington | 37.6 | 38.4 | 47.0 | 50.9 | 55.8 | 70.6 | 74.2 | 78.1 | 66.4 | 55.6 | 41.2 | 27.4 | 53.6 | 101 | 7 | Apr. 28 | Oct. 22 |
| Jacksonville | 39.4 | 41.0 | 45.7 | 51.8 | 55.3 | 64.7 | 67.6 | 70.5 | 64.4 | 54.0 | 43.3 | 34.9 | 52.7 | 101 | 16 | May 5 | Nov. 14 |
| Joseph | 24.2 | 30.0 | 33.6 | 36.5 | 45.7 | 56.0 | 59.2 | 61.6 | 51.1 | 43.8 | 31.3 | 18.9 | 41.0 | 90 | − 9 | June 7 | Sept. 10 |
| Klamath Agency | 31.4 | 32.2 | 37.2 | 41.2 | 43.3 | 54.6 | 56.4 | ..... | ..... | ..... | 30.5 | 23.4 | 38.9 | (2) | −10 | (1) | (1) |
| Klamath Falls | 32.2 | 32.5 | 38.4 | 42.8 | 49.0 | 58.2 | 61.2 | 64.8 | 59.3 | 48.9 | 37.5 | 27.0 | 46.1 | 91 | 1 | (1) | (1) |
| La Grande | 29.9 | 36.8 | 42.8 | 44.4 | 50.6 | 62.9 | 66.2 | 67.6 | 61.2 | 49.7 | 40.4 | 25.4 | 48.2 | 103 | −11 | May 8 | Sept. 22 |
| *Marshfield | 45.2 | 45.6 | 46.8 | 48.8 | 50.2 | 55.5 | 58.6 | 58.2 | 57.8 | 54.5 | 49.4 | 42.0 | 51.0 | 93 | 23 | May 5 | Nov. 12 |
| McKenzie Bridge | 34.4 | 39.2 | 42.5 | 46.5 | 50.4 | 59.2 | 60.7 | 61.9 | 58.2 | 49.9 | 41.2 | 32.0 | 48.0 | 96 | 8 | (1) | (1) |
| *McMinnville | 32.2 | 42.9 | 46.6 | 49.8 | 53.0 | 61.0 | 62.2 | 63.8 | 62.1 | 52.7 | 45.4 | 35.9 | 50.6 | 97 | −15 | May 7 | Nov. 14 |
| Mikkalo | 21.6 | 38.8 | 44.0 | 47.3 | 54.4 | 63.6 | 66.7 | 68.0 | e63.4 | 52.1 | 41.5 | 24.3 | 49.0 | 96 | −22 | May 10 | Sept. 18 |
| Miramonte Farm | 32.6 | 42.8 | 46.2 | 49.8 | 53.8 | b62.5 | 63.6 | 64.2 | 61.6 | 52.6 | a45.4 | 35.2 | 50.9 | 94 | − 3 | Apr. 17 | Nov. 14 |
| Monroe | 35.4 | 42.9 | 45.8 | 49.7 | 52.6 | 59.9 | 61.8 | a63.4 | 62.6 | f54.4 | 46.2 | 35.2 | 50.8 | 92 | 1 | May 5 | Nov. 13 |
| Mountain Park | 22.8 | 35.8 | 41.4 | 45.5 | a50.8 | 60.2 | 62.2 | c64.2 | 59.8 | 50.1 | 39.1 | 27.0 | 46.6 | 92 | −13 | Apr. 18 | Oct. 17 |
| Mount Angel | 34.3 | 44.8 | j46.0 | 49.8 | 53.0 | 62.0 | 62.8 | 65.4 | 63.8 | 54.0 | b46.3 | 35.6 | 51.5 | 91 | − 2 | Apr. 7 | Nov. 14 |
| Newport | 41.4 | 44.6 | 46.5 | 48.0 | 48.9 | 54.2 | 58.7 | 60.0 | 56.6 | 54.0 | 47.4 | 41.4 | 50.1 | 85 | 17 | Apr. 18 | Nov. 14 |
| Pendleton | 24.6 | 41.3 | 45.4 | 50.0 | 56.6 | 65.7 | 69.0 | 70.2 | 65.0 | 52.6 | 44.2 | 28.4 | 51.1 | 105 | −21 | Apr. 30 | Oct. 8 |
| Pompeii | 26.0 | 30.9 | a34.8 | 35.6 | 41.0 | 49.8 | 51.6 | 54.4 | 53.2 | 46.3 | 34.6 | 27.4 | 40.5 | 87 | − 8 | (1) | (1) |
| *Portland | 32.8 | 43.3 | 47.6 | 51.0 | 54.8 | 62.7 | 63.9 | 65.0 | 63.2 | a54.6 | l47.2 | 35.6 | 51.8 | 93 | 6 | Jan. 28 | Nov. 14 |
| *Prineville | 25.4 | 38.0 | 40.3 | 42.2 | 48.8 | 58.2 | 61.1 | 61.3 | 56.8 | 48.5 | 40.7 | ..... | ..... | 97 | −29 | (1) | (1) |
| Prospect | 34.9 | 37.8 | 41.7 | 46.9 | 50.6 | 59.6 | 62.0 | 64.4 | 60.2 | 50.8 | 40.3 | 32.8 | 48.5 | 100 | 9 | (1) | (1) |
| Range | 22.2 | 25.9 | 30.8 | 36.0 | 41.6 | 51.7 | 58.2 | 61.2 | 53.9 | 46.0 | 32.0 | 17.0 | 39.7 | 98 | −21 | (1) | (1) |
| *Roseburg | 41.4 | 44.7 | 46.1 | 50.9 | 53.8 | 61.9 | 63.8 | 65.0 | 62.8 | 53.6 | 47.5 | 36.8 | 52.4 | 96 | 18 | May 5 | Nov. 14 |
| *Salem | 34.6 | 43.8 | 47.4 | 49.8 | 54.0 | 61.7 | 62.9 | 65.4 | 62.6 | 53.3 | 46.6 | 35.9 | 51.5 | 91 | 1 | May 21 | Nov. 14 |
| Silver Lake | 32.0 | 34.1 | 37.2 | 41.9 | 47.4 | 57.6 | 60.4 | 61.8 | 55.3 | 51.0 | l38.6 | c25.4 | 45.2 | 96 | −12 | (1) | (1) |
| *Siskiyou | 33.0 | 33.6 | 38.5 | 43.7 | 48.8 | 55.0 | 58.6 | 63.5 | 58.8 | 51.1 | 38.2 | 31.4 | 46.0 | 92 | 14 | May 24 | Oct. 29 |
| Stafford | 32.7 | 42.1 | 46.4 | 49.3 | 53.0 | 61.1 | 62.0 | 64.7 | b64.9 | ..... | 46.2 | 35.3 | ..... | 97 | 0 | May 21 | Nov. 14 |
| *The Dalles | 24.4 | 41.5 | 47.8 | 52.8 | 58.2 | 66.8 | 68.7 | 68.8 | 64.8 | 53.8 | 43.0 | 28.8 | 51.6 | 98 | −19 | Apr. 18 | Oct. 30 |
| The Heads | ..... | 45.4 | 46.8 | 49.7 | 50.2 | 54.2 | 56.6 | 58.0 | 57.4 | 55.4 | a49.4 | 46.2 | ..... | 69 | 31 | Jan. 11 | Dec. 2 |
| Toledo | 40.6 | 44.8 | 50.0 | 50.0 | 51.3 | 56.5 | 58.0 | 59.0 | 60.3 | 53.8 | 47.1 | 41.6 | 51.1 | 95 | 15 | May 6 | Nov. 14 |
| *Umatilla | 23.6 | 45.6 | 48.8 | 53.6 | 62.5 | 70.1 | 71.8 | 72.8 | 67.8 | 55.0 | 44.0 | 29.6 | 53.8 | 103 | −23 | Apr. 18 | Oct. 27 |
| Vale | 34.4 | 39.0 | 44.2 | 48.2 | 55.1 | 67.9 | 72.0 | 72.0 | 62.8 | 49.8 | 40.8 | 23.0 | 50.8 | 106 | − 5 | May 19 | Sept. 22 |
| Wallowa | 25.0 | 33.8 | 39.8 | 42.0 | 48.8 | 58.7 | 62.0 | 62.4 | a57.6 | 45.8 | 38.3 | 18.0 | 44.4 | 98 | −27 | May 6 | Aug. 30 |
| Warmspring | 23.4 | 43.0 | 44.2 | 47.4 | 52.4 | 64.3 | 65.0 | 66.8 | 60.7 | 51.8 | 42.9 | 24.0 | 48.8 | 100 | −32 | May 24 | Sept. 18 |
| Weston | 26.8 | 39.6 | 44.0 | 47.3 | 54.1 | 62.6 | 66.0 | 69.3 | 54.4 | 44.2 | 40.2 | 26.1 | 47.9 | 98 | −22 | May 6 | Sept. 11 |
| Williams | 39.8 | 42.8 | 47.0 | 50.4 | 54.0 | 60.0 | 64.3 | ..... | 62.6 | ..... | 46.8 | 36.2 | ..... | 100 | 8 | May 23 | Sept. 18 |
| Yonna | 33.0 | 33.1 | 45.6 | 43.4 | 47.5 | 56.4 | 59.0 | 61.2 | 56.0 | 46.8 | 38.2 | 26.5 | 45.6 | 95 | − 8 | (1) | (1) |
| *Pennsylvania.* | | | | | | | | | | | | | | | | | |
| Aleppo | 34.8 | 37.7 | 38.2 | 51.2 | 59.3 | 69.8 | 69.2 | 70.4 | 63.8 | 49.2 | 49.0 | 27.4 | 51.7 | 91 | − 2 | May 12 | Sept. 28 |
| Altoona | 28.6 | 32.8 | a33.2 | 46.1 | b57.8 | 66.4 | a67.4 | c66.8 | 60.3 | b41.8 | c43.4 | b23.4 | 47.6 | 94 | − 5 | May 13 | Oct. 5 |
| Baldwin | 30.8 | 33.0 | d33.4 | ..... | 58.4 | a67.8 | 67.9 | 67.8 | 61.8 | 46.8 | a45.8 | 23.4 | ..... | 91 | − 6 | May 12 | Oct. 13 |
| Bellefonte | 31.2 | 35.6 | 37.6 | 51.0 | 61.8 | 71.7 | 72.8 | a72.6 | 64.5 | a49.5 | a48.1 | a29.2 | 52.1 | 99 | − 7 | May 3 | Oct. 22 |
| California | 38.8 | ..... | ..... | ..... | a60.4 | 70.7 | a71.6 | ..... | c64.1 | 49.8 | ..... | 29.0 | ..... | ..... | ..... | May 4 | Oct. 13 |
| Catawissa | ..... | ..... | ..... | ..... | ..... | ..... | 71.8 | 70.4 | 63.8 | 49.2 | 46.3 | 29.0 | ..... | 96 | ..... | ..... | Oct. 20 |
| Center Hall | 28.8 | 32.8 | 33.6 | a46.6 | 56.8 | 67.4 | 69.6 | 69.4 | 62.2 | 46.8 | 44.8 | 25.3 | 48.7 | 94 | − 7 | May 4 | Oct. 14 |
| Claysville | 34.0 | 37.1 | 37.3 | 51.6 | 59.8 | 70.8 | 70.0 | 70.6 | 63.9 | 49.1 | 49.8 | 26.9 | 51.8 | 94 | − 3 | May 12 | Sept. 28 |
| *Clearfield | 29.8 | 33.8 | 34.5 | 48.0 | ..... | 66.7 | 67.3 | 67.4 | 61.0 | 46.2 | 46.8 | a26.7 | ..... | 97 | − 8 | ..... | Sept. 28 |
| Coatesville | 32.4 | 39.4 | 38.8 | 51.0 | 61.4 | 71.2 | 72.8 | 71.7 | 65.6 | 51.2 | 46.7 | 29.8 | 52.7 | 99 | 2 | May 3 | Oct. 13 |
| Derry Station | 35.9 | 37.2 | 37.2 | 50.2 | 60.0 | 70.4 | 70.5 | 70.4 | 64.4 | 48.6 | 48.5 | 27.0 | 51.7 | 97 | − 3 | Apr. 25 | Oct. 13 |
| Driffon | 26.6 | 31.8 | 29.8 | 42.8 | 55.6 | 65.2 | 66.2 | 64.5 | 56.9 | 42.8 | 40.3 | 21.4 | 45.3 | 90 | − 7 | May 3 | Sept. 29 |
| Dushore | a32.5 | 36.6 | 34.4 | 43.0 | 58.6 | 69.6 | ..... | 67.6 | b61.0 | ..... | ..... | ..... | ..... | 94 | ..... | Apr. 29 | Sept. 21 |
| Easton | 31.8 | 37.2 | 37.8 | 49.9 | 60.8 | 70.7 | 71.8 | 69.4 | 63.6 | 50.3 | ..... | ..... | ..... | 94 | ..... | Apr. 29 | Oct. 13 |
| Emporium | 29.0 | a34.0 | 33.7 | 46.7 | 57.7 | 67.4 | 67.2 | 66.4 | 59.4 | 45.2 | 45.2 | 25.2 | 48.1 | 92 | −10 | May 12 | Oct. 13 |
| Ephrata | 30.1 | 37.4 | 36.3 | 48.3 | 59.4 | 69.0 | 71.8 | 70.8 | 64.8 | 49.7 | 45.8 | 27.6 | 50.9 | 95 | − 1 | May 3 | Oct. 13 |
| *Erie | 31.8 | 31.2 | 32.0 | 44.9 | 54.7 | 66.2 | 69.2 | 68.2 | 62.4 | 48.7 | 46.8 | 26.2 | 48.6 | 89 | 6 | Apr. 28 | Nov. 24 |
| Everett | b32.2 | 37.6 | 36.6 | 48.9 | 60.4 | 68.8 | 69.2 | c69.4 | 61.6 | 47.6 | 46.2 | 26.7 | 50.4 | 95 | − 4 | Apr. 27 | Oct. 7 |
| *Franklin | 30.8 | 32.7 | 32.7 | 46.6 | 57.8 | 67.4 | 67.2 | a67.9 | 60.8 | 46.2 | 45.5 | 24.6 | 48.4 | 95 | − 7 | May 12 | Sept. 24 |

[1] On account of elevation, killing frosts are possible during any month of the year.

[2] No record.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *Pennsylvania*—Con. | | | | | | | | | | | | | | | | | |
| *Freeport | d 34.1 | e 34.7 | ..... | ..... | ..... | b 71.0 | c 72.2 | 70.0 | 63.6 | 50.2 | 45.8 | b 29.2 | ..... | 99 | 2 | May 3 | Oct. 19 |
| George School | 33.1 | a 38.1 | a 37.8 | 50.0 | ..... | b 71.0 | c 72.2 | 70.0 | 63.6 | 50.2 | 45.8 | b 29.2 | ..... | 99 | 2 | May 3 | Oct. 19 |
| Gettysburg | 31.7 | 40.0 | 38.4 | 51.2 | 61.9 | 71.1 | 73.0 | 71.2 | 64.5 | 50.0 | 47.7 | 29.0 | 52.5 | 100 | 2 | May 3 | Oct. 14 |
| Gordon | 29.0 | 35.4 | 34.4 | 47.4 | 57.0 | 66.6 | 67.8 | 67.2 | 61.4 | 46.6 | 44.2 | a 24.6 | 48.5 | 97 | −10 | May 12 | Sept. 6 |
| Greensburg | 34.5 | 36.8 | 37.0 | 49.7 | 59.5 | 69.8 | 70.0 | 70.2 | 63.6 | 47.8 | 48.5 | 26.0 | 51.1 | 91 | − 2 | May 12 | Sept. 28 |
| Greenville | 30.8 | 32.8 | 33.4 | 46.4 | 57.2 | 68.0 | 68.9 | 69.0 | 60.9 | 46.7 | 46.6 | 24.6 | 48.8 | 95 | −10 | May 12 | Sept. 28 |
| Grove City | 31.2 | 33.6 | 33.7 | 46.4 | 57.9 | 65.6 | 67.6 | 68.2 | 61.0 | 46.3 | 46.8 | 23.8 | 48.5 | 91 | −10 | May 12 | Sept. 28 |
| Hamburg | 27.3 | 37.3 | 37.4 | 49.8 | 60.1 | 68.6 | a 71.8 | f 72.0 | 65.2 | 51.8 | 46.5 | 29.0 | 51.4 | 95 | − 4 | May 12 | Oct. 14 |
| Hanover | 35.5 | 43.6 | 40.8 | 53.2 | 63.2 | 72.4 | 74.2 | 72.8 | 66.5 | 53.2 | 50.5 | 31.8 | 54.8 | 100 | 6 | May 3 | Oct. 20 |
| *Harrisburg | 31.2 | 38.1 | 38.0 | 50.0 | 62.0 | 70.4 | 73.4 | 72.0 | 65.2 | 50.8 | 48.2 | 29.8 | 52.4 | 96 | 5 | Apr. 11 | Oct. 20 |
| *Huntingdon | 31.3 | 37.6 | 36.5 | 49.4 | 60.3 | 69.1 | 70.8 | 69.6 | 63.2 | a 48.6 | 47.2 | 27.0 | 50.9 | 99 | −10 | May 4 | Sept. 28 |
| Hyndman | 32.4 | 38.8 | 37.8 | 50.4 | 59.8 | 69.8 | 69.0 | 68.5 | 62.2 | 47.8 | 47.2 | 27.8 | 51.0 | 96 | − 4 | May 12 | Oct. 2 |
| Indiana | 33.0 | 35.2 | 35.0 | a 48.4 | a 58.4 | 69.4 | 69.2 | 70.2 | a 64.1 | a 49.1 | 47.9 | a 25.4 | 50.4 | 93 | − 2 | May 12 | Oct. 13 |
| Irwin | 35.1 | 37.5 | 37.5 | 50.2 | 60.1 | 70.4 | 70.6 | 71.1 | 64.0 | 50.2 | 50.3 | 27.7 | 52.1 | 93 | − 2 | May 11 | Oct. 12 |
| *Johnstown | 33.2 | 37.0 | 36.2 | 49.1 | 61.0 | ..... | ..... | 70.4 | ..... | ..... | 47.2 | 26.4 | ..... | 96 | 0 | May 4 | ..... |
| Kennett Square | 32.8 | 39.8 | 38.8 | 51.4 | 61.2 | 70.0 | 71.8 | ..... | 64.2 | 50.8 | 46.8 | 30.0 | ..... | ..... | 5 | Apr. 12 | Oct. 14 |
| Lawrenceville | 27.3 | 31.2 | 32.3 | 45.6 | 57.3 | 67.2 | 68.1 | a 67.9 | a 58.8 | 46.4 | 44.5 | 26.6 | 47.8 | 98 | −18 | May 12 | Sept. 6 |
| Lebanon | 32.4 | 39.6 | 38.5 | 51.0 | 61.2 | 70.5 | 72.6 | 71.9 | 65.6 | 51.2 | 48.0 | 30.2 | 52.7 | 98 | 4 | Apr. 29 | Oct. 14 |
| Le Roy | 27.1 | 31.6 | 31.4 | 44.2 | 56.0 | 65.4 | 67.8 | 67.4 | 60.6 | 46.1 | 43.6 | 23.8 | 47.1 | 93 | − 8 | May 4 | Oct. 13 |
| Lewisburg | 29.6 | 35.0 | 36.8 | 49.3 | 60.6 | 69.5 | 71.5 | 69.7 | 64.2 | 49.6 | 46.4 | 29.2 | 51.0 | 98 | −14 | May 3 | Oct. 13 |
| Lock Haven | 28.3 | 34.5 | 36.5 | 51.4 | 61.0 | 70.0 | 70.6 | 70.6 | 64.1 | 48.9 | 46.4 | 27.8 | 50.8 | 99 | − 9 | May 3 | Oct. 13 |
| Lyeippus | 34.6 | 37.3 | 36.4 | 49.6 | 59.8 | 69.5 | 70.2 | 70.6 | 64.0 | 49.2 | 49.4 | 26.2 | 51.4 | 92 | − 4 | May 2 | Oct. 13 |
| Marion | 31.4 | 39.8 | 38.9 | 51.2 | 62.0 | 71.4 | 72.8 | 71.6 | 64.9 | 50.4 | 47.7 | 28.6 | 52.6 | 100 | 1 | May 12 | Oct. 14 |
| *Mauch Chunk | 28.8 | 35.6 | 36.4 | 48.2 | 58.4 | 68.8 | 69.5 | 68.6 | 63.6 | 48.4 | 45.2 | 27.6 | 49.9 | 97 | − 7 | May 3 | Oct. 13 |
| Mifflintown | 29.2 | 36.1 | 37.0 | 48.6 | 60.0 | 69.5 | 70.8 | 69.4 | 62.6 | 48.8 | 45.9 | 28.0 | 50.5 | 98 | − 9 | May 4 | Oct. 20 |
| Milford | 27.2 | 32.4 | 34.0 | 46.6 | 56.4 | 66.6 | 67.4 | 66.4 | 60.4 | 47.4 | 42.4 | 25.0 | 47.7 | 98 | −10 | May 3 | Oct. 13 |
| Montrose | 24.0 | 29.4 | 28.0 | 42.0 | 55.0 | 64.6 | 65.0 | 65.4 | 59.4 | 45.1 | 41.4 | 20.6 | 45.0 | 98 | −14 | May 31 | Oct. 13 |
| Mountain House | ..... | ..... | 35.5 | 48.8 | 61.2 | 70.0 | 71.0 | 71.3 | 63.5 | 50.4 | 47.8 | 26.2 | ..... | 95 | ..... | May 4 | Oct. 17 |
| Muncy Valley | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 46.9 | 44.4 | a 25.7 | ..... | ..... | ..... | ..... | ..... |
| New Germantown | 31.2 | 38.2 | 38.2 | 50.2 | 59.0 | a 68.8 | 70.5 | 68.7 | 61.6 | ..... | 47.5 | 29.0 | ..... | 97 | − 9 | May 11 | ..... |
| *Philadelphia (a) | 35.6 | 41.2 | 41.4 | 53.2 | 63.2 | 72.8 | 75.3 | 73.0 | 67.2 | 55.0 | 50.2 | 33.3 | 55.1 | 98 | 9 | Apr. 11 | Nov. 18 |
| Philadelphia (b) | 35.7 | 41.6 | 41.4 | 53.4 | 63.2 | 73.4 | 74.8 | 72.9 | 67.2 | 55.2 | 50.1 | ..... | ..... | 97 | ..... | ..... | ..... |
| Philadelphia (c) | 34.2 | 40.5 | 39.6 | 52.4 | 61.9 | 71.6 | 73.8 | 72.2 | 65.8 | 51.6 | 47.0 | a 30.4 | 53.4 | 99 | 1 | Apr. 10 | Oct. 13 |
| *Pittsburg | 35.1 | 37.3 | 37.0 | 50.0 | 60.5 | 70.6 | 71.2 | 72.4 | 65.1 | 49.6 | 50.4 | 26.8 | 52.2 | 91 | − 1 | Apr. 11 | Oct. 19 |
| Pocono Lake | 27.1 | a 32.2 | a 29.2 | 42.1 | a 53.8 | a 65.8 | a 65.6 | 64.2 | a 58.3 | 44.0 | a 40.0 | b 22.7 | 45.4 | 95 | −16 | May 24 | Sept. 29 |
| *Reading | 32.8 | 40.0 | 39.6 | 51.8 | 61.8 | 71.0 | 73.0 | 71.9 | 65.8 | 51.5 | 48.0 | 30.3 | 53.1 | 98 | 2 | Apr. 12 | Oct. 13 |
| Saegerstown | 31.0 | 31.0 | 32.2 | 45.6 | 57.0 | 65.8 | 66.7 | 67.4 | 59.9 | 46.7 | ..... | 27.6 | ..... | 91 | −19 | May 12 | Sept. 28 |
| St. Marys | 28.5 | 32.1 | 30.8 | 45.0 | 54.0 | 65.2 | 67.8 | 67.2 | 60.4 | 44.9 | 44.4 | 21.5 | 46.8 | 91 | − 4 | May 12 | Oct. 5 |
| *Scranton | 29.2 | 34.2 | 34.0 | 46.3 | 58.4 | 68.0 | 69.4 | 67.8 | 62.2 | 48.2 | 45.2 | 27.0 | 49.2 | 95 | − 2 | Apr. 25 | Oct. 14 |
| *Selinsgrove | 29.1 | 37.2 | 36.2 | 48.9 | 59.0 | 69.4 | 71.0 | 70.5 | 62.4 | 49.0 | 45.6 | 29.4 | 50.6 | 97 | −10 | May 11 | Sept. 6 |
| Skidmore | 30.8 | 32.8 | 33.8 | 47.3 | 58.2 | 68.0 | 67.7 | 70.4 | 62.8 | 47.8 | 47.2 | 24.0 | 49.2 | 94 | − 8 | May 12 | Sept. 27 |
| Somerset | 31.4 | 33.3 | 32.6 | 47.2 | 57.5 | 67.4 | 67.4 | 67.8 | 61.0 | 46.2 | 46.8 | 22.5 | 48.4 | 95 | − 5 | May 2 | Sept. 28 |
| State College | a 29.2 | a 33.0 | 33.0 | 46.4 | 57.2 | a 67.2 | 67.8 | 66.2 | 60.8 | 46.4 | 44.8 | a 24.6 | 48.0 | 92 | 3 | May 12 | Sept. 6 |
| *Towanda | 27.1 | 32.8 | 32.7 | 46.0 | 57.4 | 66.0 | 68.1 | 67.0 | 61.6 | 47.4 | 44.1 | 26.1 | 48.0 | 95 | −13 | May 3 | Oct. 12 |
| Uniontown | 35.0 | 39.8 | 38.0 | 52.2 | 61.4 | 70.9 | 70.6 | 71.4 | 64.4 | 50.0 | 48.8 | 27.6 | 52.5 | 92 | 2 | May 12 | Oct. 13 |
| *Warren | 30.2 | 31.2 | 31.9 | 44.7 | 56.2 | 66.1 | 65.8 | 66.6 | 59.8 | 45.0 | 43.8 | 24.4 | 47.1 | 90 | − 1 | May 12 | Oct. 14 |
| Wellsboro | 26.6 | 32.4 | 32.3 | 45.4 | 56.5 | 66.4 | 66.8 | 66.0 | 60.0 | 45.0 | 43.7 | 25.2 | 47.2 | 96 | −16 | May 24 | Sept. 29 |
| West Chester | 32.4 | 39.0 | 37.9 | 50.8 | 61.4 | 71.2 | 73.2 | 71.9 | 65.4 | 51.3 | 47.4 | 29.6 | 52.6 | 96 | 4 | Apr. 12 | Oct. 13 |
| Wilkes-Barre | 29.2 | 35.2 | 36.2 | 47.8 | 59.8 | 69.3 | 71.2 | 69.4 | 63.4 | 48.0 | 45.0 | 28.1 | 50.2 | 97 | − 5 | May 3 | Oct. 20 |
| Williamsport | 29.0 | 34.8 | 36.2 | 48.6 | 59.7 | 69.2 | 70.6 | 70.8 | 63.8 | 49.0 | 46.0 | 28.2 | 50.5 | 94 | − 6 | May 3 | Oct. 13 |
| *Rhode Island.* | | | | | | | | | | | | | | | | | |
| *Block Island | 33.2 | 35.0 | 36.5 | 44.0 | 52.7 | 63.0 | 68.7 | 68.0 | 63.1 | 53.7 | 47.0 | 32.7 | 49.7 | 87 | 8 | Apr. 11 | Nov. 18 |
| Bristol | 30.8 | 33.2 | 36.4 | 45.4 | 55.1 | 65.2 | 68.0 | 69.4 | 63.0 | 52.2 | 45.6 | 31.2 | 49.6 | 86 | 6 | Apr. 29 | Nov. 7 |
| Kingston | 29.8 | 32.2 | 34.9 | 44.7 | 54.6 | 65.2 | 67.8 | 67.0 | 60.8 | 50.0 | 43.8 | 28.2 | 48.2 | 93 | − 3 | Apr. 30 | Oct. 14 |
| *Narragansett Pier | 30.6 | 32.8 | 35.9 | 43.8 | 53.8 | 63.5 | 66.8 | 67.2 | 62.2 | 49.6 | 41.4 | 30.2 | 48.2 | 90 | 2 | Apr 30 | Oct. 14 |
| *Providence | 29.6 | 32.8 | 35.4 | 46.1 | 56.4 | 67.4 | 70.2 | 68.8 | 62.0 | 51.2 | 45.2 | 29.5 | 49.6 | 95 | 1 | Apr 29 | Oct. 20 |
| *South Carolina.* | | | | | | | | | | | | | | | | | |
| Aiken | 51.2 | 52.6 | 55.2 | 65.8 | 71.8 | 80.8 | 80.2 | 80.4 | 73.7 | 62.0 | 59.0 | 43.1 | 64.6 | 99 | 9 | Mar. 26 | Nov. 19 |
| *Allendale | 52.2 | 53.5 | 57.0 | 67.0 | 73.2 | 80.4 | 80.2 | 80.8 | 76.6 | 64.1 | 60.1 | 44.0 | 65.8 | 97 | 10 | Feb. 18 | Nov. 19 |
| *Anderson | 46.6 | 49.4 | 51.5 | 63.3 | 67.8 | 76.6 | 76.8 | 78.0 | 71.6 | 59.6 | 56.8 | 38.9 | 61.4 | 102 | 8 | Mar. 26 | Oct. 25 |
| *Batesburg | 47.8 | 49.4 | 51.5 | 61.6 | 68.1 | 76.6 | 77.2 | 77.7 | 70.6 | 61.4 | 61.1 | 44.3 | 62.3 | 94 | 8 | Mar. 16 | Oct. 25 |
| Beaufort | 55.6 | 55.2 | 58.2 | 66.2 | 73.2 | 81.4 | 80.4 | 78.6 | 74.7 | 64.4 | 61.8 | 45.6 | 66.3 | 96 | 18 | Feb. 2 | Nov. 19 |
| Bennettsville | ..... | ..... | ..... | 65.2 | 70.4 | 79.6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *Blackville | 51.0 | 54.4 | 56.4 | 66.0 | 72.2 | 80.2 | 80.8 | 80.8 | 74.5 | 63.0 | 59.7 | 44.4 | 65.3 | 100 | 12 | Mar. 15 | Nov. 18 |
| Bowman | 51.2 | 52.0 | 56.5 | 65.3 | 70.0 | 79.1 | 79.2 | 80.1 | 74.9 | 62.7 | 58.5 | 43.1 | 64.4 | 100 | 11 | Apr. 10 | Nov. 19 |
| *Camden | 49.4 | 51.8 | 53.4 | 64.8 | 69.1 | 78.4 | 77.6 | 78.8 | 71.8 | 60.8 | 58.5 | 42.0 | 63.0 | 98 | 12 | Apr. 10 | Nov. 19 |
| *Charleston | 53.6 | 55.0 | 58.1 | 65.4 | 71.6 | 80.4 | 80.2 | 80.2 | 74.3 | 65.4 | 61.4 | 47.2 | 66.1 | 94 | 18 | Feb. 2 | Dec. 10 |
| *Cheraw | 46.8 | 50.7 | 51.8 | 62.8 | 68.6 | 78.6 | 77.4 | 78.8 | 71.3 | 59.0 | 57.2 | 41.7 | 62.1 | 95 | 13 | Mar. 26 | Oct. 26 |
| Clarks Hill | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Apr. 10 | ..... |
| Clemson College | 45.9 | 49.2 | 51.8 | 61.6 | 65.8 | 75.7 | 76.2 | 75.6 | 69.2 | 57.8 | 54.3 | 39.3 | 60.2 | 92 | 10 | Mar. 18 | Oct. 25 |
| *Columbia | 49.2 | 52.8 | 54.4 | 64.2 | 69.6 | 79.0 | 78.4 | 79.1 | 73.0 | 61.3 | 58.0 | 42.6 | 63.5 | 98 | 13 | Mar. 16 | Nov. 19 |
| *Conway | 51.6 | 53.9 | 56.2 | 63.6 | 69.4 | 79.1 | ..... | 79.8 | 73.0 | 60.9 | 57.8 | 43.5 | ..... | 95 | 15 | Mar. 16 | Oct. 30 |
| Darlington | 48.2 | 52.6 | ..... | 64.0 | 70.0 | 79.0 | 78.6 | 79.1 | 72.8 | 60.0 | 56.8 | 42.0 | ..... | 98 | 12 | Apr. 10 | Oct. 26 |
| Dillon | ..... | 52.0 | 53.8 | 62.2 | ..... | 79.1 | 78.0 | 77.8 | 70.2 | ..... | ..... | ..... | ..... | 99 | 14 | Apr. 10 | Oct. 26 |
| *Florence | 48.8 | 52.4 | 55.6 | 65.4 | 73.1 | 81.4 | 80.4 | 81.4 | 73.6 | 62.6 | 57.6 | 43.4 | 64.6 | 105 | 14 | Mar. 16 | Nov. 19 |
| Georgetown | 51.4 | 54.0 | 56.8 | 65.8 | 71.2 | 79.9 | 79.5 | 79.6 | 72.9 | 63.1 | 60.2 | 46.7 | 65.1 | 95 | 18 | Feb. 2 | Dec. 10 |
| *Greenville | 44.5 | 47.6 | 50.0 | 60.8 | 65.9 | 75.1 | 75.0 | 75.0 | 69.0 | 57.2 | 56.6 | 40.5 | 59.8 | 94 | 9 | Mar. 27 | Oct. 25 |
| *Greenwood | 46.0 | 48.4 | 51.4 | 62.7 | 69.1 | 78.0 | 78.0 | 78.5 | 72.2 | 59.3 | 56.1 | 39.5 | 61.6 | 99 | 11 | Apr. 1 | Nov. 18 |
| Heath Springs | 48.6 | 50.4 | 52.6 | 63.6 | 68.5 | 78.6 | 78.9 | 81.2 | 72.8 | 61.8 | 58.2 | 41.2 | 63.0 | 102 | 9 | Mar. 23 | Oct. 29 |
| Jacksonboro | 53.2 | 53.5 | 57.0 | 64.8 | 70.0 | 78.8 | 79.1 | ..... | 72.4 | 62.6 | 58.7 | 45.2 | ..... | 94 | 16 | Feb. 26 | Nov. 19 |
| *Kingstree | 52.8 | 54.8 | 57.0 | 65.8 | 70.4 | 79.7 | 78.4 | 80.4 | 72.6 | 63.4 | 58.6 | 45.2 | 64.9 | 100 | 15 | Mar. 16 | Nov. 19 |
| Liberty | 46.9 | 48.8 | 51.4 | 63.2 | 68.3 | 77.2 | 77.6 | 77.7 | 70.7 | 59.4 | 57.1 | 39.6 | 61.5 | 97 | 7 | Mar. 31 | Oct. 13 |
| Little Mountain | 48.8 | 53.6 | 54.7 | 63.0 | 69.0 | 77.2 | 77.8 | 78.6 | 72.2 | 60.6 | 59.1 | 42.2 | 63.1 | 98 | 11 | Mar. 16 | Oct. 25 |
| Newberry | 47.4 | 51.6 | 53.0 | 63.8 | 69.7 | 79.2 | 78.8 | 79.3 | 72.3 | 60.0 | 56.6 | 41.2 | 62.7 | 99 | 10 | Apr. 10 | Oct. 25 |
| Pinopolis | 51.8 | 55.2 | ..... | 64.9 | 68.9 | 77.8 | ..... | ..... | 71.5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *St. George | 54.6 | 56.0 | ..... | 67.5 | 73.8 | 81.0 | 80.4 | 79.4 | 73.2 | 61.4 | 57.8 | 44.4 | ..... | 95 | 14 | Feb. 2 | Nov. 19 |
| *St. Matthews | 46.9 | 51.2 | 53.4 | 62.2 | 68.6 | 76.4 | 76.2 | 76.8 | 71.0 | 59.5 | 56.4 | 42.6 | 61.8 | 91 | 12 | Mar. 16 | Nov. 19 |
| Saluda | 48.1 | 52.4 | 54.0 | 61.2 | 70.2 | 78.7 | 78.2 | 79.0 | 71.4 | ..... | 56.1 | 42.1 | ..... | 100 | 10 | Mar. 31 | Nov. 19 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *South Carolina*—Con. | | | | | | | | | | | | | | | | | |
| Santuc | 46.5 | 49.8 | 51.2 | 62.6 | 67.8 | 77.8 | 77.6 | 77.6 | 71.0 | 59.2 | 56.3 | 39.6 | 61.4 | 100 | 10 | Apr. 10 | Oct. 25 |
| Society Hill | 47.2 | 52.1 | 53.2 | 63.8 | 68.6 | 78.8 | 76.8 | 77.4 | 70.1 | 58.6 | 55.7 | 40.5 | 61.9 | 93 | 14 | Mar. 15 | Nov. 18 |
| *Spartanburg | 45.8 | 48.4 | 50.4 | 62.4 | 68.4 | 78.2 | 78.4 | 77.8 | 70.6 | 59.5 | 56.5 | 38.5 | 61.2 | 101 | 11 | Apr. 10 | Oct. 24 |
| Summerville | 53.2 | 54.2 | 58.0 | 66.0 | 70.4 | 79.0 | 78.2 | 79.1 | 73.0 | 62.4 | 59.6 | 45.8 | 64.9 | 97 | 15 | Mar. 16 | Nov. 19 |
| Trenton | 48.6 | 48.8 | 52.4 | 64.0 | 68.0 | 77.6 | 76.8 | 78.2 | 69.0 | 59.6 | 58.2 | 42.6 | 62.0 | 100 | 9 | Mar. 4 | Nov. 19 |
| Trial | 50.4 | 53.8 | 55.7 | 63.6 | 69.3 | 78.2 | 77.6 | 79.0 | 73.4 | 61.8 | 58.4 | 45.3 | 63.9 | 95 | 14 | Apr. 10 | Oct. 30 |
| Walhalla | ...... | ...... | 50.6 | 61.4 | 66.0 | 75.8 | 76.0 | 76.4 | 69.6 | 58.5 | 57.4 | 39.2 | ...... | 98 | 8 | Mar. 26 | Oct. 25 |
| Walterboro | 54.9 | 55.1 | 58.7 | 66.4 | 71.6 | 79.6 | 79.0 | 80.6 | 74.0 | 64.4 | 60.5 | 46.3 | 65.9 | 98 | 15 | Mar. 16 | Nov. 19 |
| Winnsboro | ...... | 52.0 | 52.7 | 62.8 | 69.1 | 78.0 | 77.4 | 78.4 | 71.6 | 62.1 | ...... | ...... | ...... | 98 | ...... | Mar. 17 | ...... |
| Winthrop College | 47.0 | 51.0 | 52.0 | 63.6 | 68.0 | 77.7 | 78.0 | 78.2 | 71.0 | 60.0 | 57.8 | 40.3 | 62.0 | 100 | 10 | Apr. 1 | Oct. 25 |
| *Yemassee | 51.4 | 52.2 | 55.8 | 64.6 | 71.4 | 80.0 | 79.4 | 80.2 | 74.0 | 62.4 | 58.5 | 44.9 | 64.6 | 97 | 15 | Feb. 27 | Nov. 19 |
| *South Dakota.* | | | | | | | | | | | | | | | | | |
| *Aberdeen | 7.8 | 12.0 | 29.1 | 38.0 | 54.8 | 66.7 | 69.2 | 73.0 | 59.2 | 45.4 | 29.0 | 6.6 | 40.9 | 98 | −30 | May 13 | Sept. 24 |
| Academy | 18.0 | 23.3 | 32.3 | 42.0 | 57.1 | 68.7 | 74.3 | 77.2 | 64.0 | 51.6 | 36.3 | 11.1 | 46.3 | 104 | −25 | May 10 | Oct. 11 |
| Alexandria | 16.3 | 20.0 | 30.0 | 42.4 | 59.6 | 68.4 | 72.3 | 75.8 | 61.7 | 49.6 | 37.8 | 9.8 | 45.3 | 97 | −25 | May 9 | Oct. 12 |
| Andover | ...... | ...... | ...... | ...... | ...... | ...... | ...... | 72.6 | ...... | 46.4 | ...... | ...... | ...... | 94 | ...... | ...... | Oct. 11 |
| Armour | 19.3 | 21.2 | ...... | 41.4 | 57.3 | 67.9 | 73.2 | 77.9 | 62.1 | 50.6 | [f]37.2 | 14.6 | ...... | 103 | −24 | May 9 | Oct. 10 |
| Ashcroft | 12.4 | 23.0 | 30.1 | 35.4 | 51.2 | 63.4 | 69.2 | 72.5 | 59.5 | [h]46.8 | ...... | ...... | ...... | 105 | −30 | May 18 | Sept. 19 |
| Belle Fourche | 17.6 | 25.2 | 33.0 | 39.6 | 51.3 | 65.4 | 70.2 | 73.0 | 60.8 | 48.2 | 34.0 | 12.2 | 44.2 | 102 | −23 | May 19 | Sept. 19 |
| Bowdle | 8.2 | 14.8 | 28.8 | 37.4 | 53.4 | 64.5 | 68.8 | 74.1 | 60.0 | [n]45.8 | ...... | ...... | ...... | 97 | −34 | May 13 | Oct. 11 |
| Brookings | 12.6 | 18.0 | 29.2 | 38.2 | 55.0 | 65.8 | 69.6 | 73.9 | 60.2 | 46.2 | 33.8 | 10.1 | 42.7 | 93 | −30 | May 16 | Oct. 11 |
| Burke | 17.3 | ...... | 31.3 | 40.6 | 55.4 | 67.9 | 71.8 | 75.8 | 62.9 | 50.5 | 36.1 | 11.0 | ...... | 100 | −21 | May 10 | Oct. 11 |
| Canton | 17.1 | 19.3 | 29.4 | ...... | ...... | 68.8 | 71.4 | 75.2 | 60.8 | 48.1 | 36.2 | 12.2 | ...... | 100 | −27 | ...... | Oct. 13 |
| Cascade Springs | 16.0 | 25.0 | 33.5 | 42.6 | 54.2 | 67.6 | 72.6 | 73.5 | 61.0 | 49.0 | 35.1 | 12.8 | 45.2 | 103 | −41 | May 15 | Sept. 23 |
| Castlewood | 11.4 | 17.0 | 28.0 | 36.5 | 53.6 | 64.9 | 68.0 | 72.2 | 59.1 | 44.8 | 32.4 | 8.4 | 41.4 | 93 | −33 | May 16 | Oct. 11 |
| Centerville | 17.2 | 20.1 | [e]29.3 | 41.8 | 56.8 | 67.7 | 71.4 | [n]76.4 | [i]60.2 | [c]53.0 | 36.3 | 10.4 | 45.0 | 96 | −26 | May 16 | Oct. 13 |
| *Chamberlain | 16.2 | 22.6 | 34.0 | 44.4 | ...... | 70.4 | 75.6 | 79.0 | 63.8 | 49.9 | ...... | [i]9.4 | ...... | 104 | −23 | ...... | Oct. 11 |
| Clark | 9.9 | 14.6 | 26.8 | 37.0 | 53.4 | 66.0 | 67.5 | 73.4 | 59.9 | 44.8 | 32.4 | 6.2 | 41.0 | 94 | −33 | May 10 | Oct. 12 |
| Clear Lake | 10.2 | 14.9 | 28.8 | ...... | ...... | 65.1 | 68.0 | [d]73.0 | | | | 6.0 | ...... | 95 | −30 | ...... | ...... |
| Cottonwood | ...... | ...... | ...... | ...... | ...... | ...... | 74.1 | 77.2 | 64.2 | 50.0 | 35.6 | 12.2 | ...... | 104 | ...... | ...... | Sept. 23 |
| Daviston | ...... | ...... | ...... | ...... | [l]54.0 | 64.5 | 67.2 | [c]72.8 | ...... | 45.4 | 30.6 | 10.0 | ...... | 100 | ...... | May 20 | ...... |
| Deadwood | ...... | ...... | [n]33.1 | 34.6 | 46.5 | 60.4 | 66.0 | 68.2 | 57.6 | 46.6 | 38.8 | 15.9 | ...... | 96 | ...... | May 18 | Sept. 19 |
| De Smet | 12.6 | 17.4 | 29.1 | [c]38.8 | 56.2 | [f]66.4 | [d]70.3 | 7[illegible].2 | [l]60.6 | 47.6 | 34.5 | 9.2 | 43.1 | 95 | −32 | May 16 | ...... |
| Dowling | ...... | ...... | ...... | 41.5 | 54.4 | 67.8 | 72.8 | 77.3 | 64.3 | 50.7 | 35.8 | 12.6 | ...... | 104 | ...... | May 9 | Oct. 8 |
| Elk Point | 20.6 | 24.4 | 34.4 | [e]42.6 | 59.7 | 70.6 | 74.6 | [c]78.4 | ...... | 52.8 | [c]41.2 | 13.7 | ...... | 101 | −22 | May 10 | Oct. 11 |
| Ellingson | ...... | ...... | ...... | ...... | ...... | 62.4 | 68.3 | 72.0 | ...... | ...... | ...... | ...... | ...... | 102 | ...... | ...... | ...... |
| Eureka | 7.4 | 12.7 | 27.8 | 36.6 | 53.2 | 65.2 | 69.2 | 73.6 | 61.0 | 47.0 | 33.0 | 7.6 | 41.2 | 97 | −36 | May 16 | Oct. 11 |
| Fairfax | 18.8 | 24.0 | [e]31.2 | 42.8 | 57.7 | 68.2 | 74.7 | 77.1 | [g]66.6 | [f]53.0 | ...... | ...... | ...... | 100 | −21 | May 10 | ...... |
| Faulkton | 10.0 | 15.6 | 29.2 | 38.9 | 55.2 | 66.3 | 69.6 | 73.6 | 60.7 | 46.0 | 31.7 | 8.2 | 42.1 | 96 | −27 | May 10 | Oct. 10 |
| Flandreau | 12.9 | 17.2 | 28.5 | 38.2 | 55.2 | 64.8 | 68.2 | 73.2 | 59.8 | 46.6 | 34.2 | [f]7.2 | 42.2 | 95 | −28 | May 16 | Oct. 11 |
| Forestburg | 13.9 | 19.0 | 29.8 | 40.8 | 57.2 | 67.6 | 71.8 | 75.7 | 63.3 | 48.9 | 33.0 | 9.8 | 44.2 | 98 | −29 | May 10 | Oct. 11 |
| Fort Meade | 21.8 | 27.6 | 36.6 | 40.6 | 51.6 | 66.6 | 73.6 | ...... | 65.0 | 47.8 | 38.1 | 14.9 | ...... | 100 | −18 | May 1 | Oct. 8 |
| Frederick | [f]10.0 | [e]13.0 | 28.0 | 37.2 | 52.7 | [f]65.8 | 68.2 | [e]72.3 | 60.4 | [f]44.4 | ...... | ...... | ...... | 98 | −31 | May 13 | Sept. 24 |
| Gannvalley | 14.4 | 19.4 | 31.6 | 41.2 | 56.8 | 69.3 | 73.6 | 77.2 | 62.8 | 49.6 | 34.8 | 9.4 | 45.0 | 105 | −23 | May 10 | Sept. 15 |
| Greenwood | 21.0 | 25.6 | 32.8 | 45.1 | 60.2 | 69.7 | 74.2 | 78.8 | 65.4 | 53.8 | 38.9 | 13.8 | 48.3 | 105 | −22 | May 3 | Oct. 12 |
| Hermosa | 22.3 | 28.0 | 33.8 | 39.8 | 52.9 | 65.3 | 70.4 | 74.1 | 61.5 | 49.2 | 38.4 | 14.0 | 45.8 | 101 | −22 | May 8 | Oct. 8 |
| Highmore | 11.0 | 16.0 | 30.4 | 39.1 | 54.6 | 66.7 | 71.6 | 76.0 | 62.9 | 48.6 | 31.8 | 7.1 | 43.0 | 102 | −27 | May 10 | Oct. 10 |
| Hopewell | ...... | | | | | | ...... | ...... | 64.1 | 50.0 | 34.9 | 10.2 | ...... | ...... | ...... | ...... | Oct. 9 |
| Howard | [h]13.5 | [f]21.9 | 27.8 | [d]38.3 | 54.7 | 66.0 | 69.4 | 73.4 | [d]60.6 | [e]46.0 | [e]34.4 | [f]9.8 | 43.0 | 95 | −31 | May 16 | Oct. 11 |
| Howell | 10.8 | 15.2 | 29.8 | 39.4 | 55.1 | 67.3 | 70.2 | 74.1 | 61.0 | 46.7 | 31.6 | 7.8 | 42.4 | 98 | −28 | May 10 | Oct. 12 |
| *Huron | 12.2 | 15.9 | 29.8 | 39.2 | 55.8 | 67.2 | 70.4 | 74.8 | 61.0 | 46.9 | 31.7 | 8.9 | 42.8 | 97 | −25 | May 10 | Sept. 24 |
| Ipswich | 8.0 | 12.4 | 28.3 | 38.1 | 54.3 | 65.4 | 68.6 | 72.4 | 60.8 | 44.9 | 30.0 | 7.4 | 40.9 | 99 | −30 | May 15 | Oct. 11 |
| Kadoka | ...... | ...... | ...... | ...... | ...... | 68.0 | 73.8 | 77.0 | 64.2 | 50.0 | 35.2 | 12.3 | ...... | 103 | ...... | ...... | Oct. 10 |
| Kennebec | 16.4 | [d]23.6 | 33.4 | 40.3 | [h]54.9 | [c]69.9 | 75.1 | [d]76.5 | [h]62.1 | [i]45.2 | 33.7 | 10.1 | 45.1 | 104 | −23 | May 13 | Oct. 11 |
| Kidder | [e]9.2 | 13.2 | 29.4 | 37.2 | 53.4 | 65.1 | 68.8 | ...... | 61.8 | 46.6 | 31.0 | 5.9 | ...... | ...... | −33 | May 16 | Sept. 24 |
| Kimball | 14.8 | 23.0 | 32.0 | 41.0 | 56.8 | 71.0 | 73.8 | 75.9 | 62.5 | 49.8 | 34.4 | 9.0 | 45.3 | 100 | −24 | May 10 | Oct. 11 |
| La Delle | 11.7 | [d]16.5 | 29.8 | 39.2 | 55.4 | 68.2 | 70.7 | 74.7 | ...... | 48.0 | [c]32.4 | 8.2 | ...... | 95 | −38 | May 16 | Oct. 12 |
| Lead | ...... | ...... | 29.5 | 34.1 | 46.8 | 61.1 | 67.0 | 70.2 | 59.0 | 47.6 | 40.1 | 16.0 | ...... | 92 | ...... | May 12 | Sept. 21 |
| Lemmon | 9.8 | 16.6 | 29.0 | 36.2 | 51.3 | 63.6 | [c]67.2 | 71.8 | 60.4 | [c]44.4 | 31.8 | 8.5 | 40.9 | 99 | −30 | May 14 | Sept. 23 |
| Leslie | 15.4 | [d]21.8 | ...... | 43.6 | ...... | ...... | ...... | ...... | [e]65.8 | ...... | ...... | 8.6 | ...... | ...... | −20 | ...... | Oct. 9 |
| Manderson | 18.6 | | 33.4 | 42.4 | ...... | ...... | ...... | ...... | | | | | | | −39 | | ...... |
| Marion | 18.0 | 22.2 | 31.8 | 42.6 | 58.6 | 67.5 | 71.2 | 75.3 | 61.8 | 50.6 | 36.4 | 10.1 | 45.5 | 97 | −25 | May 10 | Oct. 12 |
| Marston | ...... | ...... | | 39.3 | | ...... | ...... | ...... | ...... | ...... | 30.5 | 7.0 | ...... | ...... | ...... | ...... | ...... |
| Mellette | [e]10.6 | 15.4 | 30.8 | 39.8 | 55.4 | 67.2 | 69.6 | 74.4 | 61.5 | [d]48.6 | 32.2 | 7.8 | 42.8 | 97 | −31 | May 3 | Oct. 12 |
| Menno | 17.6 | 20.8 | 29.7 | 42.2 | 57.6 | 67.4 | 70.8 | 76.1 | 62.2 | 50.5 | 36.0 | 11.2 | 45.2 | 96 | −28 | May 3 | Oct. 12 |
| *Milbank | 11.2 | 13.8 | 28.4 | 36.3 | 54.2 | 65.8 | 69.3 | 72.4 | 60.0 | 44.4 | 30.8 | 8.8 | 41.3 | 97 | −25 | May 10 | Oct. 12 |
| *Mitchell | 14.9 | 19.6 | 30.5 | 40.5 | 57.0 | 67.2 | 71.6 | 75.4 | 61.0 | 47.4 | 33.6 | 9.6 | 44.0 | 99 | −23 | May 10 | Oct. 11 |
| Murdo | 17.2 | 23.8 | 32.8 | 40.4 | 55.0 | 66.8 | 74.2 | 77.6 | 64.7 | 50.0 | 35.2 | 11.0 | 45.7 | 105 | −22 | May 9 | Oct. 11 |
| Oelrichs | 15.4 | 21.7 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | 12.4 | ...... | ...... | −36 | ...... | ...... |
| Orman | 16.1 | 24.6 | 34.2 | 40.2 | 52.6 | 66.4 | 71.8 | 75.8 | 62.6 | 49.8 | 36.4 | 11.4 | 45.2 | 102 | −22 | May 20 | Sept. 24 |
| Ottumwa | 18.7 | 23.6 | 33.8 | 40.0 | 53.0 | 67.8 | 72.6 | 75.6 | 62.0 | 47.4 | 33.3 | 10.5 | 44.9 | 107 | −27 | May 14 | Sept. 24 |
| *Pierre | 15.8 | 22.0 | 33.8 | 41.6 | 56.6 | 69.6 | 75.0 | 78.4 | 64.6 | 50.7 | 35.0 | 12.0 | 46.3 | 105 | −18 | May 2 | Oct. 11 |
| Pollock | [d]6.3 | ...... | 30.0 | 38.2 | 53.0 | 66.2 | ...... | 74.0 | [f]62.6 | ...... | ...... | ...... | ...... | 100 | −39 | May 16 | Sept. 15 |
| *Rapid City | 21.6 | 26.4 | 33.4 | 38.8 | 51.5 | 65.4 | 70.9 | 74.0 | 61.6 | 49.0 | 37.6 | 14.6 | 45.4 | 99 | −18 | May 9 | Oct. 11 |
| *Redfield | 7.8 | 13.4 | 30.0 | 38.6 | 55.3 | 67.1 | 70.0 | 73.7 | 60.2 | 44.4 | 30.4 | 10.0 | 41.7 | 99 | −33 | May 16 | Oct. 12 |
| Rosebud | 20.3 | 25.8 | 32.2 | [e]39.9 | [d]53.4 | 66.3 | [f]72.0 | 74.6 | 61.8 | 49.1 | 37.6 | 12.8 | 45.5 | 99 | −26 | May 9 | Sept. 19 |
| Roslyn | 8.6 | 13.8 | 26.2 | 35.0 | 53.2 | 64.6 | 67.7 | 72.0 | 59.6 | 44.0 | 31.0 | 6.4 | 40.2 | 94 | −29 | May 10 | Oct. 12 |
| Selby | ...... | [d]15.0 | [e]30.4 | 38.4 | [e]55.8 | 66.3 | 70.2 | 75.6 | 61.8 | 47.6 | 32.2 | [d]6.8 | | 96 | ...... | May 10 | Oct. 8 |
| Sioux Falls | 15.8 | 20.0 | 31.0 | 42.0 | 58.5 | 70.5 | 71.2 | 75.8 | 62.5 | 48.6 | 38.0 | 11.3 | 45.4 | 97 | −24 | May 10 | Oct. 10 |
| Spearfish | 23.1 | 29.0 | 34.6 | 40.4 | 51.6 | [f]65.3 | ...... | 75.1 | 62.7 | 50.8 | 40.0 | 15.6 | ...... | 99 | −20 | May 13 | Oct. 9 |
| Stephan | 12.7 | 17.6 | 30.5 | 39.6 | 54.7 | 66.8 | 71.8 | 75.5 | 61.2 | 48.1 | 32.0 | 7.8 | 43.2 | 103 | −23 | May 10 | Sept. 24 |
| Tama | 13.0 | 21.3 | 31.6 | 37.6 | 51.7 | 66.5 | 72.7 | 77.0 | 62.3 | 46.6 | 32.2 | 8.2 | 43.4 | 108 | −25 | May 15 | Sept. 19 |
| Vale | 14.3 | 22.7 | 33.4 | ...... | ...... | ...... | 71.8 | 75.9 | 62.0 | 48.0 | 33.7 | 11.3 | ...... | 103 | −22 | May 18 | Sept. 19 |
| Van Metre | ...... | [k]21.0 | [d]34.2 | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... | ...... |
| Vermilion | 19.3 | 24.3 | 32.3 | 43.6 | 59.0 | 69.7 | 73.5 | 77.5 | 61.8 | 51.4 | 39.6 | 12.2 | 47.0 | 97 | −23 | May 3 | Oct. 13 |
| Watertown | 11.6 | 17.1 | 28.4 | 37.0 | 54.7 | 65.8 | 69.8 | [f]73.8 | 60.4 | 45.6 | 32.6 | 8.8 | 42.1 | 95 | −29 | May 10 | Oct. 11 |
| Wentworth | 13.4 | 18.1 | 28.8 | 38.8 | 55.3 | 66.2 | 69.6 | 73.6 | 61.0 | 47.4 | 34.2 | 10.0 | 43.0 | 94 | −25 | May 10 | Oct. 11 |
| Wessington Springs | 11.8 | 19.4 | | | 57.2 | 69.9 | 71.3 | 75.0 | [f]62.2 | 49.2 | 34.3 | ...... | | 98 | ...... | May 9 | Oct. 11 |
| *Yankton | 18.6 | 22.4 | 30.9 | 41.6 | 58.0 | 69.0 | 72.2 | 77.2 | 62.6 | 50.0 | 37.3 | 12.1 | 46.0 | 97 | −19 | May 10 | Oct. 12 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *Tennessee.* | | | | | | | | | | | | | | | | | |
| *Arlington | | | | 59.3 | 66.4 | 77.8 | 80.2 | 80.4 | 70.6 | 58.0 | | | | | | | Oct. 13 |
| Ashwood | 42.2 | 45.8 | 49.4 | 60.0 | 65.0 | 74.2 | 76.0 | 78.3 | 70.3 | 58.8 | 58.8 | 34.7 | 59.5 | 100 | 4 | Apr. 9 | Oct. 13 |
| Benton | 45.1 | 48.6 | 50.5 | 60.6 | 66.2 | 75.4 | 76.5 | 79.0 | 71.4 | 58.0 | 55.2 | 35.5 | 60.2 | 100 | 6 | May 2 | Oct. 13 |
| *Bolivar | 40.4 | 45.9 | 54.0 | 62.5 | 66.0 | 76.7 | 79.0 | 80.3 | 71.0 | 59.0 | 58.5 | 33.8 | 60.6 | 97 | ..... | May 2 | Oct. 13 |
| Bristol | 41.2 | 43.2 | ..... | 57.0 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *Brownsville | 43.5 | 46.4 | 50.5 | 59.6 | 66.4 | 77.2 | 79.6 | 80.8 | 70.0 | 59.4 | 58.4 | 34.8 | 60.6 | 98 | 9 | Mar. 16 | Oct. 13 |
| Byrdstown | 43.4 | 46.2 | 48.5 | 58.6 | 65.5 | 73.4 | 74.6 | 76.0 | 68.6 | 57.7 | 58.4 | 33.0 | 58.7 | 94 | 1 | May 2 | Oct. 12 |
| *Carthage | 40.8 | 47.6 | 50.0 | 60.4 | 67.6 | 74.9 | 75.8 | ..... | 69.8 | ..... | 58.0 | 34.2 | ..... | ..... | ..... | Apr. 2 | ..... |
| Cedar Hill | 40.8 | 46.8 | 47.8 | 59.0 | 66.6 | 78.0 | 78.7 | 78.3 | 70.2 | 59.2 | 59.0 | 32.8 | 59.8 | 100 | 2 | Apr. 14 | Oct. 25 |
| *Chattanooga | 46.1 | 48.5 | 51.6 | 60.6 | 66.8 | 75.8 | 75.8 | 79.0 | 71.2 | 59.6 | 57.0 | 36.5 | 60.8 | 95 | 6 | Mar. 15 | Oct. 25 |
| *Clarksville | 40.4 | 45.3 | 48.6 | 59.0 | 66.5 | 76.6 | 77.4 | 80.0 | 69.6 | 58.8 | 57.6 | 34.2 | 59.5 | 98 | 2 | Apr. 9 | Oct. 13 |
| *Covington | 41.8 | 46.0 | 51.0 | 60.2 | 68.0 | 78.6 | 80.4 | 80.4 | 71.2 | 60.6 | 57.7 | 34.5 | 60.9 | 99 | 10 | Apr. 9 | Oct 12 |
| Decatur | 45.0 | 46.4 | 49.5 | 60.0 | 66.4 | 76.0 | 76.2 | 79.0 | 69.9 | 57.1 | 52.8 | 34.0 | 59.4 | 100 | 4 | May 2 | Oct. 13 |
| Dickson | 42.1 | 47.2 | 50.4 | 59.2 | 65.7 | 75.0 | 75.9 | 78.0 | 69.8 | 57.4 | 58.0 | 33.0 | 59.3 | 99 | 1 | May 2 | Oct. 12 |
| Dover | 41.0 | 46.8 | 49.6 | 60.0 | 66.4 | 75.7 | 78.3 | 80.4 | 70.4 | 59.0 | 58.8 | 33.6 | 60.0 | 102 | 4 | May 2 | Oct. 12 |
| Dunlap | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 77.1 | 70.6 | 58.4 | 56.4 | 35.9 | ..... | ..... | ..... | ..... | Oct. 13 |
| *Dyersburg | 40.6 | 44.8 | 50.8 | 59.8 | 66.6 | 78.4 | [a]80.0 | 80.8 | 71.3 | 59.4 | 58.4 | 33.4 | 60.4 | 100 | 10 | Mar. 15 | Oct. 13 |
| *Elizabethton | ..... | 44.4 | 44.8 | 56.8 | 62.4 | 72.8 | 75.3 | 76.4 | 68.0 | 57.8 | 55.0 | ..... | ..... | ..... | ..... | May 3 | ..... |
| Erasmus | 42.2 | 42.4 | 45.1 | 54.6 | 61.0 | 70.2 | 71.0 | 73.0 | 65.0 | 52.6 | 51.4 | 29.8 | 54.9 | 93 | — 4 | May 2 | Sept. 28 |
| Florence | 43.2 | 46.4 | 49.3 | 58.8 | 66.1 | 74.8 | 76.3 | 77.6 | 69.3 | 57.4 | 56.2 | 34.4 | 59.2 | 95 | 4 | Apr. 11 | Oct. 13 |
| Franklin | 42.0 | 46.6 | 50.0 | 56.6 | 65.2 | 74.6 | 76.6 | 79.0 | 70.0 | 57.9 | 56.0 | 33.6 | 59.2 | 96 | 4 | Apr. 11 | Oct. 13 |
| Harriman | 42.6 | 45.2 | 48.5 | 58.8 | 66.9 | 76.6 | 76.8 | 77.8 | 69.3 | 55.7 | 52.4 | 33.3 | 58.7 | 97 | 6 | May 2 | Oct. 13 |
| Hohenwald | 42.9 | 46.6 | 50.6 | 59.2 | 65.6 | 74.6 | 76.6 | 79.0 | 69.8 | 56.8 | 56.4 | 33.8 | 59.3 | 100 | 3 | May 2 | Oct. 12 |
| Iron City | 44.2 | 46.2 | 50.6 | 60.0 | 65.2 | 73.6 | 77.0 | 78.2 | 69.8 | 57.8 | 57.0 | 34.4 | 59.5 | 100 | 3 | May 2 | Oct. 13 |
| Jackson | 44.0 | 49.6 | 53.6 | 62.5 | 68.0 | 79.0 | 81.7 | 82.4 | 73.3 | 62.0 | 60.2 | 36.8 | 62.8 | 104 | 8 | May 2 | Oct. 13 |
| *Johnsonville | 42.0 | 46.8 | 50.4 | 59.3 | 66.2 | 76.1 | 78.2 | 79.6 | 69.8 | 57.8 | 57.0 | 33.4 | 59.7 | 102 | 4 | May 2 | Oct. 13 |
| Jonesboro | 43.6 | 44.2 | 45.2 | 57.1 | 63.1 | 73.2 | 72.0 | 75.2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | May 2 | ..... |
| Kenton | 41.5 | 46.6 | 50.8 | 59.6 | 65.8 | 77.6 | 79.1 | 81.8 | 72.0 | 61.3 | 58.8 | 34.5 | 60.8 | 104 | 7 | Apr. 9 | Oct. 12 |
| *Knoxville | 43.8 | 46.1 | 48.1 | 58.8 | 65.9 | 74.8 | 75.1 | 76.8 | 69.0 | 57.2 | 54.2 | 34.0 | 58.6 | 93 | 8 | Mar. 18 | Oct. 13 |
| Lafayette | 41.8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Lebanon | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 82.0 | 69.9 | 59.4 | 58.2 | 34.6 | ..... | ..... | ..... | ..... | Oct. 13 |
| Lewisburg | 43.1 | 46.8 | 49.6 | 58.8 | 65.9 | 75.7 | 77.2 | 79.6 | 70.0 | 58.2 | 57.2 | 34.0 | 59.7 | 100 | 4 | May 2 | Oct. 13 |
| Lynnville | 42.4 | 45.3 | 49.8 | 58.0 | 67.4 | 74.6 | 77.2 | 78.7 | 70.4 | 57.6 | 56.8 | 34.0 | 59.4 | 95 | 6 | May 2 | Oct. 13 |
| McMinnville | 44.0 | 47.5 | 49.6 | 58.8 | 64.9 | 74.0 | 75.2 | 77.4 | 68.8 | 56.8 | 57.3 | 34.2 | 59.0 | 95 | — 1 | May 2 | Oct. 13 |
| Maryville | 45.4 | 47.7 | 49.1 | 60.0 | 66.0 | 75.0 | 75.8 | 77.9 | 70.2 | 57.4 | 54.8 | 34.8 | 59.5 | 98 | 5 | Apr. 11 | Oct. 13 |
| *Memphis | 43.6 | 48.6 | 53.2 | 61.8 | 67.0 | 78.0 | 81.4 | 82.1 | 73.2 | 63.4 | 60.6 | 36.2 | 62.4 | 96 | 11 | Feb. 17 | Nov. 17 |
| *Milan | ..... | ..... | 49.1 | 58.4 | 65.2 | 76.1 | 77.6 | 79.2 | 69.3 | 57.8 | 58.0 | 35.2 | ..... | 97 | 8 | Apr. 9 | Oct. 13 |
| Mountain City | 41.1 | 40.7 | 42.2 | 54.4 | 60.2 | 69.7 | 68.6 | 69.7 | 62.7 | 50.2 | 47.1 | 30.6 | 53.1 | 91 | — 6 | May 12 | Sept. 27 |
| *Nashville | 42.8 | 46.8 | 49.4 | 59.2 | 66.4 | 76.4 | 77.6 | 79.6 | 70.8 | 59.9 | 58.0 | 34.8 | 60.1 | 96 | 5 | Apr. 9 | Oct. 13 |
| *Newport | 42.4 | 44.5 | 47.4 | 57.8 | 63.8 | 73.4 | 73.4 | 74.4 | 67.8 | 53.0 | 51.0 | 32.5 | 56.8 | 90 | 5 | Apr. 11 | Oct. 12 |
| Palmetto | 43.2 | 46.6 | 50.4 | 60.0 | 66.8 | 75.8 | 76.8 | 80.0 | 70.6 | 59.6 | 58.2 | 34.4 | 60.2 | 99 | 5 | May 2 | Oct. 13 |
| Pinewood | 44.5 | ..... | ..... | ..... | ..... | ..... | 76.0 | 78.8 | ..... | 59.0 | 56.0 | 35.0 | ..... | 100 | ..... | ..... | Oct. 13 |
| Pope | 43.0 | 47.2 | 51.1 | 59.3 | ..... | ..... | 79.2 | 79.5 | 71.0 | 57.3 | 56.4 | 31.2 | ..... | 101 | 5 | Apr. 14 | Oct. 25 |
| *Rogersville | 43.6 | 44.4 | 46.8 | 57.2 | 64.1 | 73.6 | 73.2 | 74.9 | 67.6 | 55.0 | 52.2 | 32.6 | 57.1 | 93 | 1 | May 2 | Oct. 13 |
| Rugby | 40.8 | 43.2 | 44.9 | 55.0 | 62.2 | 71.2 | 72.2 | 73.4 | 65.8 | 53.1 | 52.3 | 30.5 | 55.4 | 94 | — 5 | May 2 | Sept. 28 |
| *Savannah | 45.9 | 47.8 | 51.4 | 61.0 | 66.2 | 76.4 | ..... | ..... | ..... | 57.7 | 59.2 | 38.1 | ..... | ..... | ..... | May 2 | Oct. 13 |
| Sevierville | 44.4 | 45.6 | 48.0 | 57.6 | 64.4 | 74.0 | 74.7 | 75.5 | 68.5 | 55.8 | 50.8 | 33.1 | 57.7 | 94 | 1 | May 2 | Oct. 25 |
| Sewanee | 41.8 | 45.4 | 48.0 | 57.4 | 63.8 | 72.2 | 73.8 | 75.5 | 67.4 | 57.4 | 55.4 | 32.2 | 57.5 | 90 | — 1 | Apr. 10 | Oct. 13 |
| Sparta | 43.7 | 46.1 | 47.8 | 58.8 | 64.8 | 74.5 | 75.6 | 76.9 | 68.3 | 57.1 | 53.2 | 34.4 | 58.4 | 94 | 2 | May 2 | Oct. 13 |
| Springdale | 40.8 | 43.2 | 46.4 | 55.5 | 65.5 | ..... | ..... | 78.2 | 66.5 | 51.8 | 50.4 | 30.8 | ..... | 100 | — 5 | May 2 | Oct. 13 |
| Springville | 41.0 | 45.5 | 48.9 | 58.1 | 64.8 | 75.8 | 77.4 | 78.8 | 68.8 | 57.3 | 56.8 | 33.4 | 58.9 | 100 | 4 | May 2 | Oct. 13 |
| Tellico Plains | 47.2 | 49.0 | 51.1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Tracy City | 41.4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Trenton | 40.8 | 45.6 | 49.6 | 58.2 | 64.8 | 76.0 | 78.2 | 80.4 | 70.2 | 59.2 | 57.4 | 34.6 | 59.6 | 100 | 8 | May 2 | Oct. 13 |
| Tullahoma | 43.2 | 46.6 | 49.6 | 59.1 | 65.5 | 74.8 | 75.8 | 78.1 | 69.6 | 56.6 | 56.2 | 34.6 | 59.1 | 98 | 2 | May 2 | Oct. 13 |
| Union City | ..... | 46.4 | 50.4 | 59.6 | 67.0 | 78.8 | 80.2 | 81.9 | 72.0 | 60.4 | 58.4 | 34.4 | ..... | 101 | 7 | Apr. 13 | Oct. 13 |
| Waynesboro | 43.2 | 46.8 | 50.8 | 59.0 | 65.6 | 75.0 | 76.9 | 78.8 | 70.3 | 58.6 | 57.6 | 35.4 | 59.8 | 99 | 5 | May 2 | Oct. 13 |
| Wildersville | 40.8 | ..... | 49.0 | 59.2 | 65.2 | 75.5 | 78.0 | 80.4 | 69.8 | 58.8 | 58.5 | 34.8 | ..... | 103 | ..... | May 2 | Oct. 13 |
| Yukon | 43.6 | 47.6 | 50.2 | 59.4 | 66.0 | 75.0 | 77.4 | 78.4 | 69.6 | 59.2 | 58.3 | 35.2 | 60.0 | 98 | 5 | Apr. 9 | Oct. 13 |
| *Texas.* | | | | | | | | | | | | | | | | | |
| *Abilene | 48.9 | 52.7 | 57.5 | 63.8 | 71.5 | 79.5 | 84.8 | 82.9 | 75.3 | 66.1 | 60.8 | 38.6 | 65.2 | 104 | 3 | Apr. 1 | Nov. 17 |
| *Albany | 46.6 | 50.7 | 56.6 | 62.3 | 71.4 | 80.8 | 86.0 | 83.0 | 77.0 | 66.0 | 59.4 | 36.6 | 64.7 | 106 | — 2 | Apr. 14 | Nov. 17 |
| *Amarillo | 40.8 | 41.7 | 44.9 | 54.0 | 62.6 | 73.5 | 77.9 | 78.0 | 69.3 | 57.8 | 50.4 | 31.0 | 56.8 | 102 | 3 | May 1 | Nov. 16 |
| *Austin | 54.2 | 57.1 | 62.0 | 66.5 | 72.1 | 80.5 | [a]84.7 | 82.9 | 76.6 | 67.8 | 65.9 | 44.6 | 67.9 | 102 | 19 | Feb. 17 | Dec. 8 |
| *Ballinger | 49.8 | 53.4 | 59.1 | 64.5 | 73.0 | 80.3 | 85.1 | 82.8 | 75.2 | 66.0 | 60.8 | 38.9 | 65.8 | 108 | 3 | Apr. 9 | Nov. 17 |
| *Barstow | 50.6 | [b]52.3 | 57.8 | 68.4 | 75.2 | 84.0 | 85.2 | 82.1 | 75.4 | 67.2 | 59.8 | 42.4 | 66.7 | 110 | 3 | Apr. 9 | Nov. 17 |
| *Beaumont | 61.0 | 59.2 | ..... | ..... | 75.8 | 81.0 | 85.4 | 84.0 | 80.6 | 72.6 | 67.2 | 51.8 | ..... | 102 | 21 | Feb. 25 | Dec. 8 |
| *Beeville | 60.0 | 62.1 | 67.5 | 72.8 | 77.0 | 82.1 | 84.5 | 84.0 | 78.6 | 72.7 | 71.4 | 51.4 | 72.0 | 106 | 23 | Feb. 16 | Dec. 13 |
| *Big Springs | 49.6 | 51.1 | 56.6 | 65.1 | 73.4 | [a]81.0 | 85.3 | [b]84.2 | 75.8 | 67.2 | 60.0 | 39.4 | 65.7 | 109 | — 3 | Apr. 9 | Nov. 17 |
| Blanco | 52.3 | 52.2 | 58.2 | 63.7 | 70.4 | 80.8 | 84.5 | [b]82.9 | 74.0 | 66.4 | 65.4 | 42.2 | 66.1 | 107 | 14 | Mar. 17 | Nov. 18 |
| Boerne | 56.8 | 56.6 | 61.0 | 66.8 | [a]71.4 | 80.6 | 83.6 | 80.3 | 74.6 | 67.9 | 64.0 | 46.3 | 67.5 | 109 | 14 | Apr. 2 | Nov. 17 |
| Bonham | [a]47.4 | 50.2 | 55.8 | 63.0 | [a]71.6 | 78.6 | [a]83.8 | [a]85.4 | 77.2 | [a]66.6 | [a]60.3 | 38.0 | 65.1 | 112 | — 3 | Apr. 13 | Nov. 17 |
| *Bowie | 46.8 | 51.7 | 57.4 | 65.7 | 73.1 | 80.6 | 87.8 | 85.2 | 78.1 | 68.9 | 62.9 | 38.2 | 66.4 | 108 | 3 | Apr. 13 | Nov. 17 |
| *Brazoria | 59.8 | 58.5 | 64.8 | 68.6 | 74.4 | 81.6 | 83.6 | 83.7 | 79.1 | 72.5 | 69.7 | 53.2 | 70.8 | 101 | 21 | Feb. 25 | Dec. 13 |
| *Brenham | 54.6 | 56.6 | 63.2 | 67.8 | 72.8 | 80.8 | 85.6 | 85.8 | 79.4 | 71.4 | 67.2 | 45.6 | 69.2 | 111 | 19 | Feb. 17 | Dec. 13 |
| Brighton | 61.4 | 63.8 | 68.0 | [a]72.6 | 77.0 | 82.6 | 83.8 | [a]82.8 | 80.4 | 75.0 | 74.2 | 52.7 | 72.9 | 100 | 25 | Feb. 15 | Dec. 19 |
| *Brownsville | 65.7 | 65.6 | 71.4 | 73.8 | 78.8 | 83.6 | 84.4 | 83.1 | 79.3 | 74.6 | 74.6 | 58.2 | 74.4 | 100 | 28 | Feb. 16 | None. |
| *Brownwood | 49.6 | 50.1 | 56.2 | 64.5 | 73.4 | 83.0 | 86.6 | 84.2 | 76.3 | 65.4 | 60.8 | 38.8 | 65.7 | 108 | 7 | Apr. 8 | Nov. 17 |
| Cameron | 56.2 | 56.8 | 63.8 | 68.0 | 74.8 | 83.1 | 88.2 | 87.8 | 80.2 | 71.2 | 66.3 | 43.0 | 70.0 | 113 | 16 | Feb. 17 | Nov. 18 |
| Canadian | ..... | 44.0 | 48.9 | 57.7 | 65.6 | 72.4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | May 1 | ..... |
| Carmona | 54.7 | 54.7 | 61.2 | 66.8 | 71.9 | 79.6 | 84.6 | 84.8 | 78.1 | 68.9 | 65.6 | 45.2 | 68.0 | 108 | 19 | Apr. 14 | Nov. 18 |
| Channing | [a]39.2 | ..... | ..... | ..... | ..... | ..... | 79.4 | 82.0 | ..... | ..... | [a]57.2 | ..... | ..... | ..... | ..... | ..... | Nov. 12 |
| Childress | 43.1 | ..... | 52.9 | 60.8 | 68.4 | [a]77.0 | [a]83.6 | ..... | [a]75.8 | ..... | ..... | ..... | ..... | ..... | ..... | May 1 | ..... |
| Clarendon | 42.2 | 46.8 | 50.2 | 60.4 | [a]67.1 | [a]76.4 | 83.1 | [a]82.0 | 73.2 | 59.8 | 54.8 | 34.3 | 60.9 | 108 | 1 | May 1 | Nov. 16 |
| Clarksville | 50.6 | 52.4 | 57.8 | 65.0 | 72.6 | 79.7 | 85.3 | 86.0 | 78.4 | ..... | 61.2 | 38.8 | ..... | 110 | 12 | Apr. 9 | Nov. 17 |
| Claytonville | 48.6 | 50.0 | 56.6 | [b]64.2 | 71.4 | 79.0 | 82.0 | 83.8 | 74.4 | 61.8 | 56.8 | 36.2 | 63.7 | 104 | 2 | May 1 | Nov. 17 |
| Coleman | [b]52.4 | [a]56.9 | [a]60.0 | [b]65.5 | [a]70.6 | 80.8 | [a]83.5 | ..... | [a]72.8 | [a]66.8 | [b]64.4 | [b]35.0 | ..... | ..... | 8 | Mar. 15 | Nov. 18 |
| *Colorado | 50.6 | 52.7 | 58.7 | 65.8 | 73.5 | 79.6 | [a]84.4 | 82.0 | 75.2 | 66.2 | ..... | [a]38.2 | ..... | 106 | 7 | May 1 | ..... |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *Texas*—Continued. | | | | | | | | | | | | | | | | | |
| Columbia | 58.0 | 58.4 | 63.6 | 68.3 | 74.2 | 81.8 | 83.8 | 83.2 | 77.2 | 70.6 | 69.0 | 50.4 | 69.9 | 102 | 16 | Mar. 15 | Dec. 12 |
| Comstock | | | | | | | | 83.9 | 76.6 | 69.9 | 64.6 | 44.2 | | | | | Dec. 7 |
| *Corpus Christi | 59.4 | 61.6 | 66.8 | 70.6 | 74.7 | 81.8 | 83.5 | 82.7 | 78.9 | 74.0 | 71.2 | 53.6 | 71.6 | 99 | 24 | Feb. 15 | None. |
| *Corsicana | 50.7 | 51.9 | 60.2 | 65.6 | 73.2 | 82.0 | 88.2 | 86.4 | 79.6 | 69.2 | 63.5 | 40.8 | 67.6 | 112 | 13 | Feb. 25 | Dec. 5 |
| Crockett | 55.1 | 55.6 | 62.2 | 66.4 | 73.0 | 81.6 | 86.8 | 87.4 | 80.0 | 71.3 | 66.3 | 45.0 | 69.2 | 114 | 16 | Mar. 15 | Nov. 18 |
| *Cuero | 56.6 | 58.6 | 64.5 | 68.2 | 75.0 | 83.2 | 86.2 | 86.6 | 81.0 | 73.4 | 70.2 | 50.7 | 71.2 | 109 | 21 | Feb. 16 | Dec. 26 |
| Dalhart | | | 41.2 | 51.2 | 59.4 | 72.5 | 77.8 | 77.0 | 65.8 | 54.8 | 45.4 | 25.6 | | 104 | | May 3 | Oct. 9 |
| *Dallas | 49.4 | 52.1 | 57.5 | 63.9 | 72.5 | 81.0 | 87.6 | 86.4 | 79.2 | 68.7 | 61.4 | 38.2 | 66.5 | 115 | 8 | Apr. 9 | Nov. 18 |
| Danevang | 58.6 | 58.7 | 63.6 | 69.2 | 75.4 | | | | | 71.0 | 71.9 | d52.6 | | | 18 | Mar. 15 | Dec. 9 |
| Decatur | | | | | | | c84.7 | 86.1 | 79.6 | 70.2 | | c46.3 | | | | | Dec. 5 |
| *Del Rio | 56.7 | 58.1 | 65.9 | 70.8 | 77.9 | 84.1 | 85.0 | 85.5 | 78.0 | 70.6 | 65.2 | 47.0 | 70.4 | 108 | 21 | Feb. 15 | Dec. 6 |
| Devine | | | | | | | | 86.7 | 80.8 | 72.8 | 71.1 | 50.4 | | | | | |
| Dialville | 53.6 | 54.4 | 60.3 | 65.3 | 71.4 | 77.8 | 86.0 | 85.2 | 78.2 | 69.6 | 64.2 | 43.1 | 67.4 | 111 | 14 | Mar. 15 | Dec. 5 |
| *Dublin | 49.8 | 53.8 | 59.6 | 64.8 | 72.4 | 80.1 | 84.8 | 83.6 | 76.5 | 67.4 | 62.2 | 40.2 | 66.3 | 103 | 5 | Mar. 15 | Nov. 17 |
| Duval | 54.8 | 57.5 | 62.8 | 67.8 | 72.0 | 81.0 | 85.0 | 84.6 | 78.4 | 70.6 | 65.5 | 46.2 | 68.8 | 108 | 17 | Mar. 15 | Dec. 5 |
| *Eagle Pass | 60.4 | 64.5 | 70.2 | | 83.7 | 89.7 | 90.3 | 89.6 | 82.8 | 74.2 | 67.8 | 50.7 | | 112 | 25 | Feb. 15 | Dec. 16 |
| *El Paso | 50.6 | 47.8 | 52.4 | 62.9 | 69.0 | 81.0 | 81.8 | 79.8 | 73.0 | 64.4 | 56.2 | 40.4 | 63.3 | 105 | 10 | Mar. 14 | Nov. 17 |
| Encinal | 62.2 | d60.2 | 70.4 | 75.0 | 84.0 | 89.0 | | c86.7 | 81.2 | 74.4 | c72.0 | 52.0 | | 110 | 23 | Mar. 15 | Dec. 16 |
| Fairland | | 56.1 | 62.2 | 66.4 | 73.5 | 82.0 | 86.8 | 86.7 | 79.4 | 70.4 | 66.6 | 44.3 | | 114 | | Mar. 15 | Dec. 9 |
| Falfurrias | 63.8 | 64.2 | 71.4 | 75.4 | 79.6 | 84.2 | 86.4 | 84.4 | 79.2 | 72.7 | 73.0 | 54.8 | 74.1 | 107 | 23 | Feb. 25 | Dec. 13 |
| Flatonia | 58.4 | 60.3 | 65.0 | 69.6 | 73.6 | 81.2 | 85.0 | 84.2 | 79.4 | 72.6 | 68.4 | 48.6 | 70.5 | 107 | 18 | Feb. 25 | Dec. 8 |
| Fort Clark | 54.6 | 56.2 | 63.8 | 68.9 | 77.0 | 84.2 | 85.6 | 85.3 | 77.5 | 69.8 | 63.8 | 45.2 | 69.3 | 106 | 17 | Feb. 23 | Dec. 5 |
| Fort McIntosh | 59.8 | 60.4 | 69.4 | 76.8 | 83.3 | 87.6 | 91.2 | 89.8 | 83.3 | 77.0 | 74.7 | 54.5 | 75.6 | 110 | 15 | Mar. 15 | Nov. 17 |
| Fort Stockton | 54.0 | 53.8 | 59.9 | 67.4 | 73.7 | 79.6 | 81.6 | | 73.2 | 66.7 | 61.8 | 44.1 | | | 6 | Apr. 13 | Dec. 5 |
| *Fort Worth | 49.0 | 53.8 | 59.0 | 64.2 | 72.6 | 81.4 | 87.4 | 85.6 | 78.2 | 68.9 | 63.2 | 39.4 | 66.9 | 112 | 8 | Feb. 25 | Nov. 18 |
| Fredericksburg | a54.0 | c55.4 | d62.0 | a64.5 | a71.6 | a80.2 | a83.2 | a81.8 | a74.8 | 66.4 | b63.8 | 43.5 | 66.8 | 104 | 11 | Mar. 16 | Dec. 6 |
| *Gainesville | 47.2 | 50.2 | 57.1 | 65.3 | 72.6 | 81.6 | 88.0 | 86.4 | 78.2 | 66.8 | 61.6 | 35.6 | 65.9 | 111 | 4 | Apr. 8 | Nov. 17 |
| *Galveston | 57.8 | 57.1 | 62.8 | 67.8 | 73.4 | 81.4 | 84.0 | 83.4 | 79.7 | 73.6 | 70.3 | 52.4 | 70.3 | 95 | 24 | Feb. 16 | None. |
| Gatesville | a52.9 | 56.0 | a59.6 | 65.5 | 73.5 | 81.0 | 86.5 | 85.5 | 77.0 | 67.5 | 63.6 | 41.4 | 67.5 | 110 | 11 | Apr. 9 | Nov. 17 |
| Georgetown | 51.9 | 53.4 | 60.5 | 65.2 | 72.7 | 81.7 | 86.4 | 85.6 | 77.8 | 67.7 | 64.1 | 41.6 | 67.4 | 112 | 16 | Mar. 15 | Nov. 18 |
| *Graham | 48.6 | | 59.2 | | | 81.8 | 88.6 | c83.9 | 76.5 | b66.2 | c57.2 | c36.6 | | 109 | | Apr. 9 | Nov. 17 |
| Grand Falls | | | 57.2 | | | | | | | | | | | | | | |
| Grapevine | b50.9 | b54.2 | c60.6 | b67.4 | | a82.2 | 88.2 | c86.6 | b79.9 | | b63.4 | d39.6 | | 115 | 8 | Mar. 15 | Nov. 17 |
| *Greenville | 47.8 | 49.9 | 58.0 | 64.6 | 72.4 | 82.0 | 88.3 | 87.4 | 79.6 | 67.8 | 62.2 | 37.8 | 66.5 | 115 | 10 | Mar. 15 | Dec. 5 |
| Hallettsville | a59.3 | 59.2 | 64.4 | 70.0 | 75.7 | 82.6 | 86.1 | 84.7 | 79.0 | 72.0 | 69.4 | 49.1 | 71.0 | 104 | 20 | Feb. 25 | Dec. 9 |
| Haskell | 45.8 | 51.0 | 56.0 | 64.4 | 72.8 | 81.9 | 88.3 | 85.1 | 78.5 | 66.7 | 58.4 | 35.8 | 65.4 | 109 | — 3 | Apr. 1 | Nov. 17 |
| *Henrietta | 45.0 | | 53.9 | b61.7 | 67.4 | 76.6 | 87.4 | 84.4 | 77.3 | 64.4 | 56.9 | 35.2 | | 106 | 2 | Apr. 9 | Nov. 17 |
| Hereford | 41.2 | 42.0 | 44.8 | 55.0 | 62.2 | 73.0 | 77.8 | 77.4 | 67.6 | 57.0 | 49.5 | 29.6 | 56.4 | 103 | — 8 | May 1 | Oct. 10 |
| Hillsboro | 51.6 | 54.2 | a61.4 | 66.0 | 73.6 | 81.8 | 87.8 | 88.2 | 79.4 | | 63.9 | 43.3 | | 109 | 11 | Apr. 9 | Nov. 19 |
| Hondo | 57.3 | | | 70.0 | 75.4 | 85.3 | 89.6 | 87.8 | 79.5 | 71.6 | 66.1 | 47.6 | | 108 | | Mar. 15 | Dec. 9 |
| *Houston | 57.0 | 57.2 | 63.6 | 68.0 | 74.8 | 82.0 | 85.3 | 86.0 | 79.4 | 71.8 | 67.8 | 49.4 | 70.2 | 108 | 21 | Feb. 17 | Dec. 9 |
| Hubbard | | 54.4 | | | | | | | | | | | | | | | |
| *Huntsville | 52.4 | 52.3 | 60.2 | 67.2 | 71.8 | 80.6 | 84.7 | 84.7 | 77.1 | 68.0 | 64.6 | 43.4 | 67.2 | 107 | 18 | Mar. 16 | Dec. 9 |
| Jewett | 51.6 | | 60.2 | a64.8 | | 80.6 | 87.1 | 86.6 | 79.8 | 69.0 | 64.5 | 41.2 | | 113 | 15 | Mar. 16 | Nov. 18 |
| Kaufman | 50.1 | 52.8 | 58.6 | 65.5 | 74.8 | 82.2 | 88.5 | 87.6 | 79.5 | 70.0 | 63.6 | 40.4 | 67.8 | 112 | 9 | Apr. 9 | Nov. 17 |
| Keene | 51.5 | 55.4 | 60.0 | | | | | | | | 63.1 | 39.7 | | | 8 | Mar. 15 | Dec. 5 |
| *Kerrville | 55.7 | 54.0 | 60.2 | 66.6 | 72.0 | 80.4 | 82.5 | 80.2 | 73.5 | 65.6 | 65.0 | 43.2 | 66.6 | 105 | 11 | Apr. 10 | Oct. 26 |
| Knickerbocker | 53.4 | 53.6 | 60.2 | 66.7 | 75.4 | 82.1 | 84.1 | a82.2 | 73.6 | a66.5 | 61.5 | 41.3 | 66.7 | 106 | 2 | Apr. 13 | Nov. 17 |
| *Lampasas | 52.2 | 54.8 | 59.2 | 64.4 | 71.2 | 80.8 | 86.3 | 85.3 | 77.2 | 66.6 | 63.6 | 42.9 | 67.0 | 112 | 13 | Apr. 10 | Nov. 18 |
| *Liberty | 58.2 | 56.6 | | | 72.7 | 80.2 | 83.1 | 83.4 | 78.1 | 70.0 | 67.8 | 48.7 | | 105 | 22 | Feb. 25 | Dec. 13 |
| Llano | 55.0 | 56.8 | 63.2 | | 74.8 | 83.2 | 87.6 | 85.6 | 78.2 | 69.9 | 65.6 | 45.3 | | 108 | 13 | Mar. 15 | Nov. 18 |
| Llano Grande | 63.4 | 64.0 | 71.2 | 73.6 | 78.5 | | 83.2 | | 73.6 | | 68.9 | 49.9 | | | 21 | Feb. 25 | Dec. 13 |
| *Longview | 50.2 | 50.8 | 57.8 | 63.4 | 71.7 | 81.4 | 87.2 | 85.8 | 78.4 | 67.6 | 62.0 | 40.2 | 66.4 | 110 | 17 | Mar. 17 | Dec. 5 |
| Lufkin | 53.8 | 53.7 | 61.3 | 66.2 | 73.2 | 80.4 | 84.2 | 85.4 | 78.6 | 69.2 | 65.3 | 45.8 | 68.1 | 110 | 18 | Mar. 16 | Dec. 9 |
| *Lulling | 55.2 | 57.8 | 63.8 | 68.3 | 74.4 | 82.4 | 86.4 | 84.2 | 78.4 | 70.1 | 67.0 | 46.0 | 69.5 | 105 | 19 | Feb. 17 | Dec. 9 |
| McLean | 39.5 | 42.9 | 48.0 | 57.0 | | f75.3 | | | | | | | | | | Apr. 23 | |
| Marshall | | | | 65.2 | 73.7 | 81.5 | 85.5 | 83.8 | 77.8 | 67.6 | b63.7 | 42.1 | | 112 | | Apr. 9 | Nov. 18 |
| Memphis | 41.2 | 45.0 | f53.2 | | d70.2 | 78.2 | 85.1 | 81.1 | 75.6 | 61.8 | 53.8 | a32.0 | | 105 | 2 | | Nov. 17 |
| *Mexia | 50.1 | 51.8 | 59.0 | 63.7 | 70.8 | 79.9 | 85.9 | 85.8 | 78.8 | 68.6 | 63.4 | 39.6 | 66.4 | 112 | 13 | Apr. 9 | Dec. 5 |
| Miami | 40.6 | 43.4 | 47.5 | | 64.5 | 76.5 | 82.4 | 81.6 | 72.8 | 60.2 | 51.4 | b31.9 | | 105 | — 5 | Apr. 23 | Nov. 14 |
| Mount Blanco | 43.4 | 46.4 | 50.8 | 59.4 | 67.9 | 76.7 | 82.0 | 79.5 | 71.2 | 61.4 | 54.1 | 34.6 | 60.6 | 103 | — 6 | Apr. 23 | Nov. 17 |
| *Nacogdoches | 52.5 | 53.8 | 59.2 | 64.4 | 70.6 | 78.6 | 83.6 | 83.8 | 77.6 | 67.6 | 64.1 | 43.3 | 66.6 | 109 | 18 | Mar. 16 | Nov. 18 |
| Nazareth | 41.8 | d40.2 | a47.4 | a55.4 | b62.6 | a73.3 | 78.2 | 77.6 | a70.0 | 57.8 | c52.6 | | | 100 | | Apr. 23 | Oct. 12 |
| New Braunfels | 56.7 | 59.3 | 64.3 | 67.6 | a73.3 | 82.1 | 85.7 | 83.4 | 77.8 | 69.2 | 67.6 | 46.6 | 69.5 | 105 | 19 | Feb. 25 | Dec. 13 |
| *Palestine | 52.0 | 54.0 | 60.0 | 64.6 | 71.2 | 79.4 | 84.3 | 84.5 | 78.1 | 69.2 | 64.7 | 42.2 | 67.0 | 108 | 14 | Feb. 25 | Dec. 8 |
| Pampa | 41.5 | 42.5 | 49.4 | 57.4 | 65.0 | 73.6 | 77.4 | 81.1 | 70.6 | 59.6 | 50.8 | 27.8 | 58.1 | 103 | — 4 | Apr. 30 | Oct. 11 |
| *Paris | 46.2 | | 56.0 | 61.9 | 71.4 | 79.8 | 86.8 | 85.6 | 79.0 | b68.2 | 60.4 | 36.6 | | 114 | | Apr. 10 | Nov. 17 |
| Pierce | 57.0 | 56.6 | 60.4 | 66.2 | | | 80.7 | 80.2 | 75.6 | 69.4 | 66.2 | 46.0 | | 96 | 18 | Mar. 15 | Nov. 18 |
| Plainview | 43.6 | 45.1 | 48.4 | 57.8 | 64.8 | 74.1 | 78.8 | 77.8 | 69.8 | 59.8 | 53.4 | 33.6 | 58.9 | 101 | — 4 | Apr. 9 | Oct. 12 |
| Plemons | 39.0 | 41.0 | 44.2 | 55.6 | 60.7 | 72.6 | 78.2 | 78.3 | 68.5 | 57.4 | 48.4 | 30.6 | 56.2 | 102 | —10 | May 2 | Oct. 27 |
| Port Lavaca | 57.8 | a59.4 | 66.2 | 70.6 | 74.8 | 82.8 | 84.4 | 84.2 | 80.0 | 73.4 | 71.0 | b52.2 | 71.4 | 100 | 20 | Feb. 16 | Dec. 13 |
| *Quanah | | | 51.6 | 62.1 | 69.8 | 78.0 | 84.4 | 85.0 | 76.0 | 64.0 | 53.8 | 32.6 | | 112 | | Apr. 24 | Nov. 14 |
| Ricardo | | | | | | 83.1 | 86.1 | 85.2 | 78.2 | 73.2 | 72.6 | 55.2 | | 107 | | | Dec. 13 |
| Robert Lee | 50.0 | 51.5 | 56.6 | 63.6 | 73.0 | 80.2 | 84.4 | 83.0 | 75.0 | 66.0 | 59.7 | 38.3 | 66.1 | 105 | 3 | Apr. 9 | Nov. 17 |
| Rossville | 58.6 | 60.2 | 67.2 | 72.1 | 77.6 | 85.0 | 87.6 | 85.8 | 80.4 | 70.7 | d70.0 | 49.4 | 72.1 | 108 | 20 | Feb. 17 | Dec. 8 |
| Sabinal | 59.8 | 59.6 | 68.0 | 71.6 | 77.6 | 85.2 | 87.2 | 85.8 | 79.2 | 71.5 | 68.8 | 50.0 | 72.0 | 110 | 21 | Feb. 25 | Dec. 9 |
| San Angelo | 53.4 | 54.1 | 60.3 | 67.0 | 74.3 | 78.0 | | | | | | 40.6 | | | 6 | Apr. 9 | Dec. 5 |
| *San Antonio | 57.2 | 58.4 | 65.5 | 68.8 | 75.2 | 82.8 | 85.8 | 84.4 | 79.0 | 71.0 | 68.2 | 47.8 | 70.3 | 107 | 20 | Feb. 17 | Dec. 9 |
| San Augustine | | | | | | 80.4 | 85.4 | 85.2 | 78.8 | a67.4 | 63.6 | 44.2 | | 112 | | | Nov. 19 |
| San Juanito | | | | | 82.0 | a86.6 | b88.7 | 89.0 | a82.3 | 76.4 | 75.1 | 57.4 | | 106 | | | Dec. 13 |
| *San Marcos | 54.2 | 57.0 | 63.0 | 66.3 | 72.2 | 81.4 | 85.4 | 83.5 | 77.9 | 68.2 | 66.2 | 44.8 | 68.4 | 105 | 19 | Feb. 25 | Dec. 8 |
| San Saba | 52.9 | 54.8 | 61.6 | 66.0 | 71.8 | 79.6 | 84.8 | 83.6 | 75.1 | 66.5 | 62.8 | 41.2 | 66.7 | 109 | 9 | Apr. 9 | Oct. 10 |
| Seymour | 44.6 | 49.2 | 54.5 | 63.4 | 71.2 | 79.4 | 85.6 | 84.4 | 75.1 | 64.4 | 58.2 | 38.2 | 64.0 | 106 | 4 | Apr. 23 | Nov. 17 |
| *Sherman | | 50.0 | 56.0 | 63.3 | 72.3 | 80.5 | 86.6 | 85.6 | 78.2 | 67.4 | 59.6 | | | 107 | | Feb. 17 | Nov. 18 |
| Somerville | | b58.0 | | 64.6 | | | | | | | 66.2 | 47.4 | | | | Feb. 26 | Nov. 19 |
| Sonora | 51.4 | 51.6 | 59.4 | 65.2 | 74.4 | 78.4 | 81.6 | 80.7 | g76.8 | m65.3 | 60.0 | a41.0 | 65.5 | 100 | 7 | Apr. 13 | Nov. 17 |
| Sugar Land | 57.6 | 61.3 | 64.6 | 69.4 | 74.2 | 82.0 | 84.2 | 84.9 | 79.2 | 71.4 | | 49.8 | | 108 | 21 | Feb. 16 | |
| Sulphur Springs | | | | | | | | 85.8 | 79.2 | 68.3 | 62.0 | 37.9 | | | | | Nov. 18 |
| *Taylor | 53.0 | 55.2 | 61.7 | 66.9 | 72.8 | 81.0 | 85.4 | 84.4 | 78.0 | 69.6 | 65.6 | 43.4 | 68.0 | 109 | 15 | Feb. 25 | Dec. 13 |
| *Temple | 51.0 | 56.1 | 60.1 | 65.2 | 73.0 | 81.9 | 86.7 | 85.9 | 78.2 | 68.0 | 63.3 | 41.0 | 67.5 | 110 | 6 | Mar. 15 | Dec. 5 |
| Texline | 37.2 | 36.3 | 40.5 | | | | | 75.1 | | | | | | | | | Nov. 1 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *Texas*—Continued. | | | | | | | | | | | | | | | | | |
| Tilden | | | [a]69.4 | [a]73.2 | [a]80.4 | | [b]89.0 | [b]87.5 | [b]80.4 | [b]75.3 | [a]73.0 | [a]51.2 | | 113 | | Mar. 15 | Dec. 13 |
| Tulia | 41.4 | 41.9 | 46.2 | 54.8 | 64.3 | 75.2 | 79.2 | 77.6 | 70.2 | 58.2 | 53.9 | 31.8 | 57.9 | 107 | −11 | Apr. 23 | Oct. 9 |
| Uvalde | 60.0 | 59.7 | [a]68.6 | [a]70.4 | 78.4 | 84.2 | 86.4 | 85.8 | 79.0 | 72.0 | 65.3 | 49.0 | 71.6 | 110 | 21 | Feb. 25 | Dec. 13 |
| *Victoria | 59.5 | 59.8 | 66.6 | 70.7 | 75.0 | 81.6 | 83.9 | 84.4 | 78.6 | 72.6 | [a]69.2 | 50.6 | 71.0 | 101 | 22 | Feb. 17 | Dec. 9 |
| *Waco | 52.2 | 51.4 | 59.6 | 65.0 | 73.0 | 83.6 | 89.6 | 87.6 | 79.6 | 69.4 | 63.7 | 41.0 | 68.0 | 109 | 12 | Mar. 15 | Nov. 18 |
| *Waxahachie | 49.5 | 50.1 | [a]58.4 | 63.7 | 72.2 | 82.0 | 87.4 | 85.2 | 77.6 | 67.6 | 62.9 | 38.0 | 66.2 | 115 | 9 | Apr. 9 | Nov. 17 |
| *Weatherford | 47.2 | 49.7 | 57.2 | 64.0 | 73.0 | 82.7 | 88.1 | 85.2 | 77.5 | 66.5 | 60.6 | 38.0 | 65.8 | 107 | 7 | Apr. 9 | Nov. 18 |
| *Wharton | 62.4 | 58.2 | 64.0 | 68.5 | 73.6 | 80.4 | 83.2 | 83.2 | 76.9 | 69.0 | [a]66.8 | 49.8 | 69.7 | 97 | 21 | Feb. 25 | Dec. 8 |
| Wills Point | 49.7 | 52.6 | 57.6 | 62.4 | 71.8 | 80.2 | ..... | [b]87.0 | 78.4 | 71.6 | 63.0 | 39.6 | ..... | 115 | 11 | Apr. 9 | Nov. 18 |
| Zapata | ..... | [a]64.4 | 74.0 | 76.2 | 83.9 | 87.8 | 89.4 | 89.2 | 80.8 | 76.6 | 74.2 | 55.2 | ..... | 114 | ..... | Feb. 16 | Dec. 16 |
| *Utah.* | | | | | | | | | | | | | | | | | |
| Annabella | 32.1 | 32.8 | 40.0 | 48.2 | 59.5 | 67.1 | 73.6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | May 30 | ..... |
| Beaver | 34.8 | 29.8 | 37.2 | 42.9 | 51.2 | 65.8 | 70.8 | 67.8 | 57.8 | 50.8 | 38.4 | 22.2 | 47.5 | 97 | −4 | May 30 | Sept. 22 |
| Castle Dale | 24.8 | 22.7 | 36.6 | 45.3 | 53.8 | 65.8 | 74.2 | 68.6 | 59.7 | 50.4 | 33.8 | 8.1 | 45.3 | 99 | −35 | May 23 | Sept. 22 |
| Cedar City | 38.2 | 34.2 | 38.7 | 47.6 | ..... | ..... | ..... | ..... | ..... | 54.0 | 40.7 | 23.7 | ..... | ..... | −2 | ..... | ..... |
| Corinne | 33.6 | 33.0 | 42.2 | 47.2 | 55.2 | 71.4 | 76.4 | 76.8 | 63.6 | 53.2 | 40.0 | 16.8 | 50.8 | 109 | −7 | May 14 | Sept. 23 |
| Deseret | 36.0 | 34.2 | 39.2 | 45.2 | 53.2 | 68.2 | 74.4 | 73.6 | 61.0 | 50.4 | 38.7 | 21.8 | 49.7 | 103 | 0 | May 30 | Sept. 12 |
| Dragon | ..... | 25.8 | 34.6 | 48.3 | ..... | 69.6 | ..... | 74.6 | ..... | 49.6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Emery | ..... | 32.8 | 37.6 | 44.5 | 52.8 | 64.8 | 69.0 | 67.4 | 60.0 | 53.1 | 44.3 | 17.8 | ..... | 93 | −15 | May 24 | Sept. 19 |
| Escalante | 32.4 | 32.6 | 38.4 | 46.0 | 53.0 | 64.2 | 69.6 | 67.6 | 58.2 | 51.6 | 38.8 | ..... | ..... | 93 | ..... | May 23 | Oct. 9 |
| Experiment Farm | 41.8 | 41.8 | 47.2 | 56.0 | 64.0 | 77.8 | 82.0 | 82.0 | ..... | ..... | ..... | ..... | ..... | 110 | ..... | Apr. 11 | Oct. 23 |
| Farmington | 36.7 | 35.0 | 40.0 | 44.4 | 53.0 | 66.4 | 71.8 | 71.8 | 59.2 | 50.8 | 40.4 | 22.5 | 49.3 | 97 | 3 | May 14 | Sept. 22 |
| Fillmore | 39.8 | 36.2 | 42.0 | 47.1 | 55.8 | 71.2 | 76.6 | 74.8 | 63.6 | 55.7 | 43.4 | 25.7 | 52.7 | 108 | 1 | May 17 | Sept. 12 |
| Fort Duchesne | 10.2 | 10.8 | 27.2 | 44.8 | 53.6 | 65.4 | 73.4 | 71.5 | 60.6 | 49.0 | 35.8 | 4.8 | 42.3 | 101 | −27 | May 14 | Sept. 22 |
| Frisco | 34.2 | 29.9 | 35.6 | 44.4 | 52.9 | 68.9 | 74.2 | 72.4 | 58.8 | 52.1 | 39.4 | 21.0 | 48.6 | 100 | −9 | May 24 | Oct. 5 |
| Garland | ..... | ..... | ..... | ..... | 52.2 | 66.6 | 71.6 | 72.4 | 58.8 | 52.2 | ..... | ..... | ..... | 100 | ..... | May 6 | Sept. 18 |
| Garrison | 37.0 | 34.9 | 40.6 | 46.2 | 53.7 | 66.8 | 72.0 | 71.8 | 60.1 | 52.6 | 38.8 | ..... | ..... | 98 | ..... | May 30 | Sept. 12 |
| Government Creek | 33.8 | 31.0 | 37.7 | 43.6 | 50.2 | 65.2 | 73.2 | 72.7 | 59.2 | 49.2 | 39.8 | 19.0 | 47.9 | 101 | −9 | May 17 | Sept. 12 |
| Grayson | 29.4 | 28.0 | 36.9 | 43.2 | 50.8 | 69.6 | 74.6 | 70.4 | 63.0 | 56.3 | 44.0 | 19.8 | 48.6 | 98 | −12 | May 24 | Sept. 12 |
| Green River | 29.6 | 35.5 | 45.4 | 52.6 | 60.2 | 75.7 | ..... | ..... | ..... | 57.8 | ..... | 13.8 | ..... | ..... | ..... | ..... | Oct. 9 |
| Heber | 27.4 | 24.8 | 33.0 | 40.2 | 48.5 | 61.7 | 67.0 | 67.8 | 55.6 | 47.1 | 35.6 | 13.7 | 43.5 | 98 | −26 | June 10 | Sept. 12 |
| Henefer | 26.8 | 26.5 | 33.8 | 40.0 | 47.8 | 60.2 | 65.0 | 67.6 | 55.6 | 45.6 | 37.0 | 13.6 | 43.3 | 98 | −22 | May 19 | Sept. 19 |
| Hite | 41.0 | 41.6 | 48.7 | 56.2 | 64.9 | 77.7 | 84.4 | 82.9 | 72.2 | 61.8 | 48.0 | 25.8 | 58.8 | 107 | −1 | Apr. 10 | Oct. 31 |
| Ibapah | 35.2 | 33.0 | 36.8 | 43.3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 18.0 | ..... | ..... | ..... | ..... | ..... |
| Kelton | 29.2 | 28.1 | 37.4 | 41.6 | 50.4 | 65.8 | 69.6 | 67.8 | 58.2 | 49.0 | 33.6 | 13.4 | 45.3 | 98 | −13 | May 17 | Sept. 20 |
| Lasal | 30.0 | 26.2 | 34.0 | 41.0 | 50.0 | 62.9 | 69.0 | 66.4 | 57.6 | 49.4 | 37.8 | 17.0 | 45.1 | 90 | −11 | May 25 | Sept. 13 |
| Levan | 32.6 | 30.2 | 37.5 | 43.6 | 51.4 | 66.2 | 71.0 | 70.1 | 59.2 | 49.7 | 37.9 | 17.2 | 47.2 | 99 | −14 | Apr. 30 | Sept. 12 |
| Loa | 24.1 | 24.8 | 32.5 | 37.3 | 46.2 | 59.9 | 66.4 | 62.8 | 52.0 | 43.0 | 31.4 | 11.8 | 41.0 | 97 | −26 | May 30 | Sept. 13 |
| Logan | 29.8 | 27.4 | ..... | ..... | ..... | 67.7 | 73.6 | 73.0 | 60.9 | 51.0 | 37.6 | 15.5 | ..... | 101 | −7 | ..... | Oct. 8 |
| Lucin | 33.2 | 30.4 | 38.2 | 43.2 | 52.6 | 68.2 | 69.2 | 69.2 | 54.6 | 45.6 | 35.6 | 15.8 | 46.3 | 105 | −12 | May 18 | Sept. 11 |
| Manti | 29.5 | 25.0 | 34.0 | 40.1 | 48.2 | 60.2 | 65.3 | 62.9 | 54.5 | 43.9 | 35.6 | 15.8 | 42.9 | 85 | −18 | May 17 | Sept. 23 |
| Marysvale | 33.8 | 30.5 | 36.8 | 43.1 | 50.0 | 62.6 | 67.4 | 67.1 | 57.8 | 49.4 | 35.9 | 16.8 | 45.9 | 96 | −20 | May 24 | Sept. 13 |
| Meadowville | 26.8 | 23.2 | 27.1 | 36.8 | 46.2 | 58.3 | ..... | 63.7 | 53.6 | 45.7 | 34.4 | 18.0 | ..... | ..... | −6 | June 11 | Sept. 12 |
| Milford | 33.3 | 33.7 | 35.0 | 44.4 | 55.4 | 67.8 | 77.2 | 72.0 | 54.8 | 47.2 | 36.7 | 16.3 | 47.8 | 102 | −8 | May 24 | Sept. 12 |
| Moab | 35.8 | 37.9 | 45.6 | 52.6 | 60.5 | 74.4 | 79.8 | 74.4 | 66.2 | 57.2 | 42.9 | 19.5 | 53.9 | 106 | −10 | May 2 | Sept. 22 |
| *Modena | 34.8 | 31.4 | 36.4 | 44.6 | 51.7 | 65.4 | 70.8 | 70.0 | 57.6 | 49.0 | 35.6 | 19.9 | 47.3 | 96 | −11 | May 24 | Oct. 4 |
| Morgan | 30.0 | 28.6 | 34.6 | 40.6 | 49.4 | 62.5 | 67.3 | 66.8 | 56.4 | 46.8 | 37.4 | 14.4 | 44.1 | 97 | −22 | May 17 | Sept. 19 |
| Mount Nebo | 35.3 | 33.6 | 39.5 | 45.9 | 53.8 | 69.4 | 75.4 | 74.2 | 61.8 | 51.6 | 40.7 | 19.8 | 50.1 | 100 | −10 | May 14 | Sept. 12 |
| Mount Pleasant | ..... | ..... | 37.0 | ..... | ..... | ..... | ..... | ..... | 59.2 | 49.3 | 38.6 | 18.6 | ..... | ..... | ..... | ..... | Sept. 12 |
| Oak City | 36.5 | 32.6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 38.4 | 21.8 | ..... | ..... | ..... | ..... | ..... |
| Ogden | 34.0 | 33.4 | 39.4 | 46.6 | 54.5 | 70.3 | 73.4 | 73.8 | 60.6 | 51.8 | 40.7 | 20.7 | 49.9 | 97 | −9 | May 1 | Oct. 8 |
| Park City | ..... | ..... | ..... | ..... | ..... | ..... | 68.4 | 67.2 | 60.4 | 49.2 | 36.4 | 18.4 | ..... | 99 | ..... | ..... | ..... |
| Parowan | 35.0 | 31.8 | 39.0 | 45.4 | 52.9 | 64.8 | 70.1 | 68.3 | 59.9 | 51.4 | 38.4 | 22.3 | 48.3 | 96 | −5 | May 14 | ..... |
| Pinto | 32.0 | 28.7 | 34.4 | 42.2 | 46.8 | 58.2 | 66.2 | 65.6 | 54.6 | 46.6 | 35.4 | 20.2 | 44.2 | 95 | −14 | June 20 | Sept. 13 |
| Provo | 36.8 | 34.8 | 40.9 | 45.2 | 53.4 | 66.7 | 72.0 | 72.8 | 60.1 | 50.6 | 41.2 | 19.5 | 49.5 | 100 | −7 | May 17 | Sept. 22 |
| Ranch | 24.0 | 23.2 | 28.8 | 39.2 | 46.6 | 56.8 | 62.4 | 62.9 | 53.4 | 44.8 | 32.4 | 16.6 | 40.9 | 93 | −16 | June 20 | Sept. 13 |
| Richfield | 35.0 | 32.2 | 38.8 | 45.6 | 53.8 | 66.9 | 70.4 | 70.3 | 61.3 | 50.6 | 38.8 | 17.4 | 48.4 | 102 | −17 | May 21 | Sept. 3 |
| St. George | 46.2 | 46.0 | 50.3 | 58.8 | 66.0 | 79.0 | 81.2 | ..... | 71.6 | 58.4 | 43.6 | 29.0 | ..... | ..... | −4 | May 12 | ..... |
| Saltair | 36.4 | 34.7 | 40.0 | 46.8 | 53.8 | ..... | 75.6 | 76.4 | 63.0 | 52.8 | 42.1 | 25.2 | ..... | 95 | 10 | May 12 | Oct. 31 |
| *Salt Lake City | 38.2 | 35.9 | 41.2 | 45.8 | 53.4 | 69.9 | 74.8 | 75.5 | 63.2 | 54.4 | 44.0 | 24.0 | 51.7 | 101 | 4 | May 31 | Oct. 31 |
| Scipio | 35.6 | 31.2 | 38.2 | 42.8 | 49.5 | 63.2 | 69.0 | 68.8 | 57.8 | 47.9 | 38.4 | 16.8 | 46.6 | 98 | −27 | June 12 | Sept. 12 |
| Scofield | 20.8 | 19.5 | 21.2 | 31.9 | 35.4 | 52.0 | 68.6 | 57.8 | 46.2 | 37.8 | 23.2 | 11.2 | 35.5 | 98 | −35 | June 27 | Aug. 4 |
| Silverlake | ..... | ..... | ..... | ..... | ..... | 56.5 | 61.7 | 61.9 | 50.3 | 43.8 | ..... | ..... | ..... | 90 | ..... | June 12 | Sept. 22 |
| Snowville | 28.5 | 26.2 | 35.6 | 40.2 | ..... | 61.5 | 67.2 | ..... | ..... | ..... | ..... | ..... | ..... | 102 | ..... | ..... | ..... |
| Springdale | 44.7 | ..... | 47.0 | 57.1 | 64.6 | 79.4 | 82.0 | 81.0 | 70.8 | 63.8 | 49.7 | ..... | ..... | 109 | ..... | ..... | Oct. 30 |
| Strawberry Valley | 22.6 | 20.6 | 26.6 | 32.1 | 41.6 | 57.0 | 63.0 | 62.3 | 51.6 | 44.0 | 33.3 | 15.0 | 39.1 | 89 | −12 | June 9 | Sept. 13 |
| Theodore | 16.9 | 15.7 | 27.6 | 42.0 | 52.0 | 62.8 | 68.2 | 68.0 | 59.0 | 49.4 | 33.8 | 5.1 | 41.7 | 97 | −34 | May 25 | Sept. 22 |
| Thistle | 29.0 | 28.9 | 36.9 | 44.4 | 44.2 | 65.7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | May 31 | ..... |
| Tooele | 36.6 | 34.0 | 39.2 | 45.3 | 52.2 | 68.0 | 71.4 | 72.4 | 60.6 | 52.0 | 41.7 | 22.6 | 49.7 | 97 | 2 | May 16 | Sept. 22 |
| Tropic | 30.1 | 29.6 | 43.4 | 44.0 | 51.8 | 64.5 | 69.0 | 67.5 | 57.8 | 52.0 | 37.4 | 21.2 | 47.4 | 101 | −15 | May 29 | Sept. 23 |
| Utah Lake | 39.3 | 32.6 | 38.6 | 44.0 | 51.4 | 66.0 | 71.6 | 69.1 | ..... | 50.2 | 39.1 | 19.3 | ..... | 94 | −14 | Apr. 30 | Sept. 22 |
| Vernal | 18.1 | 16.1 | 29.8 | 43.6 | 53.4 | 67.0 | 73.6 | 70.6 | 58.9 | ..... | 35.4 | 6.5 | ..... | 99 | −18 | May 30 | Sept. 22 |
| Wellington | 16.9 | 14.6 | 30.0 | 38.4 | 49.0 | 60.7 | 63.8 | 66.0 | 55.3 | 44.9 | 28.8 | 4.7 | 38.6 | 94 | −30 | May 30 | Sept. 22 |
| *Vermont.* | | | | | | | | | | | | | | | | | |
| Bloomfield | 17.3 | 18.2 | 23.2 | 37.8 | 50.4 | 61.6 | 63.2 | 62.4 | 55.8 | 43.8 | 36.5 | 20.2 | 40.9 | 91 | −32 | June 9 | Aug. 31 |
| *Burlington | 18.6 | 20.9 | 26.8 | 39.6 | 52.6 | 64.4 | 66.4 | 65.2 | 58.1 | 46.2 | 38.2 | 21.2 | 43.2 | 92 | −18 | Apr. 30 | Oct. 20 |
| Cavendish | 19.9 | 21.8 | 28.2 | 41.2 | 52.6 | 63.4 | 65.4 | 63.4 | 57.4 | 46.1 | 38.5 | 21.4 | 43.3 | 94 | −15 | May 26 | Aug. 31 |
| Chelsea | 16.1 | 16.8 | 24.2 | 36.6 | 48.6 | ..... | 63.2 | 61.1 | 54.0 | 42.2 | 40.0 | 18.8 | ..... | 88 | −18 | May 5 | Oct. 13 |
| Cornwall | 22.6 | 21.6 | 29.0 | 42.0 | 54.0 | 65.0 | 67.8 | 66.8 | 59.6 | 47.8 | 40.0 | 23.0 | 44.9 | 95 | −16 | Apr. 30 | Oct. 13 |
| Enosburg Falls | 18.0 | 19.1 | 25.0 | 39.9 | 53.2 | 63.8 | 65.4 | 64.4 | 58.6 | 45.2 | 37.4 | 19.6 | 42.5 | 91 | −29 | May 25 | Aug. 31 |
| Jacksonville | 20.8 | 21.6 | 26.6 | 39.7 | 50.4 | 62.2 | 64.0 | 63.0 | 54.9 | 41.4 | 39.8 | 21.0 | 42.1 | 89 | −15 | May 5 | Aug. 31 |
| Manchester | 23.6 | 24.8 | 27.6 | 41.4 | 51.9 | 62.6 | 64.0 | 62.0 | 56.6 | 44.5 | 39.2 | 20.8 | 43.2 | 85 | −14 | May 3 | Oct. 5 |
| *Northfield | 18.3 | 19.3 | 24.4 | 38.4 | 50.8 | 61.0 | 62.8 | 61.2 | 54.7 | 43.1 | 36.3 | 18.5 | 40.7 | 39 | −26 | May 26 | Aug. 31 |
| St. Johnsbury | 18.5 | 19.8 | 27.3 | 42.1 | 54.7 | 66.6 | 68.8 | 66.8 | 59.7 | 46.4 | 37.8 | 21.2 | 44.2 | 100 | −26 | May 26 | Sept. 29 |
| Wells | 20.6 | 23.0 | 26.4 | 40.2 | 53.4 | 64.8 | 65.7 | 64.2 | 58.0 | 44.8 | 38.0 | 20.0 | 43.3 | 88 | −18 | May 3 | Oct. 13 |
| Woodstock | 22.0 | 25.1 | 30.5 | 42.6 | 53.4 | 63.4 | 64.7 | 63.4 | 56.3 | 45.0 | 37.8 | 19.6 | 43.6 | 91 | −24 | May 26 | Sept. 19 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *Virginia.* | | | | | | | | | | | | | | | | | |
| Arvonia | 40.7 | 45.0 | 44.2 | 56.3 | 64.7 | 76.0 | 75.8 | 75.1 | 66.8 | 53.4 | 51.2 | 32.6 | 56.8 | 95 | 3 | Apr. 11 | Oct. 13 |
| Ashland | 39.7 | 45.6 | 43.8 | 57.3 | 64.0 | 74.2 | 74.8 | 72.8 | 66.6 | 53.7 | 50.8 | 33.3 | 59.1 | 97 | 7 | Apr. 12 | Oct. 13 |
| Big Stone Gap | 41.9 | 42.8 | 45.6 | 59.6 | 62.6 | 71.8 | 71.0 | 72.6 | 64.9 | 52.7 | 50.2 | 32.0 | 55.4 | 89 | — 5 | May 2 | Oct. 13 |
| Blacksburg | 37.8 | 39.4 | 39.4 | 51.0 | 58.2 | 70.7 | 66.2 | 67.4 | 60.6 | 48.2 | 46.2 | 27.8 | 51.1 | 91 | 0 | May 3 | Sept. 28 |
| Burkes Garden | 36.2 | 37.8 | 37.6 | 49.1 | 55.1 | 65.4 | 63.5 | 64.1 | 58.0 | 46.0 | 43.9 | 26.4 | 48.6 | 84 | — 5 | May 12 | Sept. 26 |
| Callaville | 43.4 | 48.4 | [b]45.8 | 57.4 | 64.8 | 74.8 | 73.2 | 73.2 | 67.0 | 57.4 | 53.6 | 37.0 | 58.0 | 94 | 12 | Apr. 12 | Oct. 20 |
| *Cape Henry | 44.5 | 48.8 | 47.2 | 57.6 | 65.5 | 74.4 | 75.6 | 74.4 | 70.0 | 58.4 | 54.2 | 38.7 | 58.0 | 93 | 16 | Mar. 26 | Nov. 19 |
| Catawba | | | | | | | | | | 50.6 | [a]51.4 | 32.0 | | | | | Oct. 13 |
| *Charlottesville | 40.4 | [a]45.6 | 44.4 | 57.0 | 65.2 | [a]73.9 | 75.4 | [a]73.3 | [b]67.4 | 56.4 | 53.3 | [d]35.0 | 57.3 | 97 | 9 | Apr. 11 | Oct. 13 |
| *Columbia | 41.0 | 45.8 | 44.7 | 56.8 | 64.2 | 74.4 | [a]72.9 | 73.0 | 65.9 | 52.8 | 51.3 | 32.8 | 56.3 | 94 | 7 | Apr. 29 | Oct. 13 |
| Culpeper | 36.0 | 43.0 | 42.3 | 54.8 | 63.7 | 73.8 | 74.8 | 72.8 | 65.6 | 50.9 | 48.9 | 30.0 | 54.7 | 98 | 0 | May 3 | Oct. 13 |
| Dale Enterprise | 36.0 | 42.0 | 40.8 | 51.6 | 59.6 | 70.8 | 70.4 | 70.8 | 64.6 | 51.2 | 48.1 | 28.6 | 52.9 | 97 | — 1 | May 12 | Oct. 3 |
| Dinwiddie | 42.9 | [a]47.0 | 45.0 | 56.8 | [a]62.8 | 75.8 | | | | | | | | | 8 | May 12 | |
| Doswell | | | [d]45.0 | 56.9 | | | [b]74.0 | 73.4 | 66.7 | | 52.9 | [d]34.2 | | 97 | 1 | May 2 | |
| Eastville | | | | | | | | | | | 54.1 | 36.5 | | | | | |
| Elk Knob | 40.8 | 41.4 | 43.2 | 55.4 | 62.4 | 71.2 | 71.2 | 73.4 | 65.0 | 54.7 | 53.6 | 30.1 | 55.2 | 89 | — 4 | May 2 | Oct. 13 |
| Fredericksburg | 38.9 | 46.5 | 44.4 | 56.2 | 64.9 | 74.2 | 74.6 | 73.1 | 67.0 | 53.6 | 52.2 | 32.2 | 56.5 | 98 | 3 | May 3 | Oct. 13 |
| Galax | [d]37.8 | 39.8 | [d]41.2 | 52.8 | 59.4 | 69.4 | 67.2 | 68.1 | | 50.2 | 47.8 | 31.2 | | 89 | 1 | May 3 | Sept. 26 |
| Hampton | 45.0 | 49.0 | 48.0 | 58.7 | 67.5 | 76.2 | 76.7 | 75.2 | 70.6 | 59.6 | 54.6 | 38.0 | 59.9 | 94 | 12 | Mar. 23 | Oct. 25 |
| Hot Springs | 35.7 | 38.4 | 38.0 | 50.8 | 57.8 | 68.2 | 66.0 | 66.6 | 60.4 | 48.0 | 46.8 | 27.4 | 50.3 | 86 | 3 | May 12 | Oct. 13 |
| Ivanhoe [1] | 38.0 | 40.2 | 40.9 | 54.2 | 60.8 | 70.0 | 68.8 | 68.0 | 62.0 | 48.9 | 46.0 | 29.8 | 52.3 | 85 | 4 | May 12 | Oct. 2 |
| Ivor | 45.4 | 49.4 | 47.0 | | 66.1 | 74.6 | 74.4 | 73.0 | 68.0 | 56.6 | 54.6 | 35.2 | | 96 | 9 | | Nov. 5 |
| Lebanon | | | | | | | | | | 52.0 | 49.7 | 31.9 | | | | | Oct. 13 |
| Lexington | 36.8 | 39.8 | 40.0 | 54.0 | 60.9 | 71.6 | 70.6 | 71.9 | 64.0 | 51.0 | 48.6 | 30.5 | 53.3 | 94 | 8 | May 3 | Oct. 14 |
| Lincoln | 32.8 | 41.9 | 42.8 | 53.4 | 63.6 | 73.0 | 75.2 | 73.8 | 66.2 | 52.6 | 50.0 | 29.0 | 54.5 | 102 | — 1 | May 3 | Oct. 13 |
| *Lynchburg | 41.2 | 45.2 | 45.0 | 57.2 | 64.2 | 75.4 | 74.2 | 73.6 | 66.7 | 53.9 | 52.5 | 34.2 | 56.9 | 95 | 12 | Apr. 11 | Oct. 17 |
| Marion | 40.8 | [a]42.0 | 42.7 | [b]53.2 | 59.5 | 70.4 | 68.9 | 69.8 | | 50.0 | 48.0 | 31.3 | | 90 | — 2 | May 3 | Oct. 2 |
| Max Meadows | 39.3 | 41.3 | [a]41.0 | 53.2 | [a]60.4 | | 68.6 | | | 50.2 | [d]47.9 | [a]27.4 | | | 4 | May 3 | Oct. 13 |
| *Mount Weather | 33.6 | 38.2 | 36.5 | 48.7 | 59.2 | 68.4 | 69.6 | 68.8 | 61.3 | 49.2 | 47.2 | 26.4 | 50.6 | 90 | — 1 | Mar. 31 | Oct. 13 |
| Newport News | 45.6 | 49.2 | 47.6 | 58.8 | 66.7 | 76.3 | 76.9 | 75.4 | 69.8 | 58.2 | 54.6 | 38.2 | 59.8 | 97 | 13 | Mar. 23 | Nov. 19 |
| Nokesville (near) | 37.5 | [a]44.8 | 42.3 | 54.1 | 64.4 | 72.6 | 73.6 | 71.7 | 66.1 | 53.4 | 51.3 | 32.7 | 55.4 | 95 | 6 | Apr. 12 | Oct. 16 |
| *Norfolk | 46.1 | 50.3 | 48.1 | 59.0 | 66.0 | 75.8 | 76.4 | 74.6 | 69.7 | 58.4 | 55.0 | 38.8 | 59.8 | 94 | 13 | Feb. 26 | Nov. 19 |
| Norfolk (near) | | | 47.0 | 58.0 | 64.7 | 75.4 | 75.6 | 73.6 | 69.0 | 56.2 | 53.2 | 36.8 | | 97 | 12 | Mar. 25 | Oct. 30 |
| Petersburg | [a]43.4 | [a]48.6 | [c]47.6 | [c]60.0 | [a]66.8 | [a]75.0 | [a]76.9 | [d]74.0 | 68.4 | [c]56.4 | [a]52.2 | [c]37.2 | 58.9 | 96 | 11 | Mar. 26 | Nov. 4 |
| Quantico | 36.0 | 42.8 | 42.0 | 52.8 | 67.6 | [d]73.5 | 75.4 | 73.3 | 66.4 | 52.4 | 51.2 | 32.0 | 55.4 | 95 | 4 | Apr. 26 | Oct. 13 |
| *Richmond | 42.2 | 47.4 | 46.4 | 57.6 | 66.0 | 76.2 | 76.8 | 74.3 | 67.4 | 55.4 | 53.1 | 35.9 | 58.2 | 96 | 10 | Apr. 12 | Oct. 20 |
| *Rocky Mount | 42.4 | 45.0 | 45.2 | 56.9 | 62.6 | 73.5 | 71.9 | 72.3 | 65.6 | 52.6 | 51.4 | 33.6 | 56.1 | 93 | 8 | May 3 | Oct. 13 |
| Saxe | 43.7 | 47.0 | 45.8 | 58.0 | 64.4 | 76.1 | 74.6 | 72.8 | 67.2 | 54.0 | 52.7 | [b]34.8 | 57.6 | 99 | 10 | May 3 | Oct. 2 |
| Spottsville | 45.0 | 49.6 | 47.1 | 57.7 | 65.6 | 74.7 | 74.4 | 74.2 | 67.7 | 55.1 | 53.6 | 35.7 | 58.4 | 95 | 7 | Apr. 10 | Oct. 17 |
| *Staunton | 40.4 | 44.8 | 44.8 | 55.0 | 62.8 | 72.4 | 71.9 | 71.2 | 64.6 | 52.4 | 50.0 | 31.2 | 55.1 | 94 | 7 | Apr. 12 | Oct. 13 |
| Stephens City | 34.5 | 41.4 | 40.9 | 52.4 | 62.2 | 71.8 | 73.2 | 72.2 | 64.4 | 50.8 | 49.6 | 29.6 | 53.6 | 98 | 0 | May 4 | Oct. 13 |
| Warsaw | 40.4 | 44.6 | [d]43.0 | [a]53.6 | 62.8 | [a]72.0 | [a]72.5 | 71.8 | 64.6 | 53.0 | 51.6 | 32.1 | 55.2 | 95 | 4 | Apr. 11 | Oct. 18 |
| Williamsburg | 44.0 | 47.8 | 46.6 | 58.0 | 65.4 | 75.6 | [a]76.6 | 73.6 | [a]68.1 | 56.4 | 52.6 | 36.4 | 58.3 | 95 | 7 | Apr. 11 | Oct. 29 |
| *Woodstock | 35.0 | 42.1 | 41.0 | 54.0 | 63.0 | 73.8 | 73.6 | 71.2 | 65.4 | 52.0 | 50.2 | 30.0 | 54.3 | 96 | 2 | May 12 | Oct. 13 |
| *Wytheville | 38.6 | 40.6 | 40.9 | 52.9 | 59.2 | 69.8 | 67.8 | 69.1 | 62.5 | 50.0 | 47.7 | 29.8 | 52.4 | 89 | 1 | May 3 | Oct. 13 |
| *Washington.* | | | | | | | | | | | | | | | | | |
| Aberdeen | 34.1 | 40.8 | 44.1 | 46.0 | 49.4 | 55.6 | 57.4 | 58.6 | 57.1 | [a]51.8 | 44.7 | 35.2 | 47.9 | 92 | 8 | May 21 | Nov. 13 |
| Anacortes | 31.4 | 41.5 | 41.9 | 43.6 | 50.4 | 53.4 | | | 59.4 | 50.9 | 45.2 | 35.8 | | 81 | 7 | Apr. 18 | Nov. 14 |
| Baker | 30.2 | 39.2 | 44.0 | 47.4 | 53.4 | 59.8 | 61.2 | 62.4 | | 51.2 | 41.9 | 33.6 | | 96 | 4 | May 20 | Nov. 13 |
| Bellingham | 30.3 | 43.0 | 44.4 | 48.0 | 53.0 | 58.5 | 60.0 | 60.4 | 57.1 | 52.0 | 47.0 | [a]36.8 | 49.2 | 85 | 0 | Apr. 21 | Oct. 17 |
| *Blaine | 29.6 | 40.3 | 42.6 | 46.0 | 51.6 | 57.4 | 59.1 | 58.3 | 55.7 | 49.2 | 43.0 | 33.2 | 47.2 | 81 | 1 | May 22 | Oct. 14 |
| Centralia | 34.0 | 41.8 | 45.2 | 48.1 | 52.4 | 60.0 | 61.4 | 62.0 | 59.8 | 53.2 | 44.6 | 34.2 | 49.7 | 94 | 4 | May 22 | Oct. 17 |
| Cheney | 18.7 | 30.3 | 41.1 | 44.2 | [a]53.0 | 63.4 | 68.9 | | 64.3 | 48.0 | 38.6 | 29.0 | | 102 | —26 | May 16 | Sept. 15 |
| Chopaka | 17.2 | 35.2 | | | 55.8 | 63.1 | 66.2 | 66.6 | 61.7 | 47.2 | 36.3 | | | 98 | —20 | May 18 | Sept. 23 |
| Clearbrook | | 38.0 | 41.1 | 45.4 | 51.2 | 57.0 | 58.4 | 57.8 | 56.5 | 48.9 | 41.4 | 31.7 | | 89 | | May 25 | Aug. 5 |
| Clearwater | 33.1 | 39.2 | 41.8 | 44.8 | 49.3 | [a]54.2 | 57.4 | 56.8 | 55.2 | 49.2 | 42.4 | | | 78 | 17 | Apr. 21 | Nov. 11 |
| Clealum | 17.1 | 32.0 | 39.2 | 42.4 | 48.3 | 56.8 | 60.3 | 61.0 | 57.1 | 45.9 | 34.6 | 20.5 | 43.0 | 97 | —24 | June 28 | Aug. 28 |
| Colfax | 23.8 | 35.9 | 42.8 | 43.8 | 50.8 | 58.9 | 62.4 | 61.8 | 58.6 | 49.3 | 40.8 | | | 97 | —25 | May 10 | Aug. 6 |
| Colville | 17.6 | 32.0 | 39.6 | 43.8 | 52.9 | 61.0 | 64.0 | 63.8 | 58.3 | 46.9 | 36.6 | 22.3 | 44.9 | 99 | —29 | May 21 | Aug. 28 |
| Conconully | 11.7 | 27.1 | 37.2 | 44.4 | 52.2 | 59.3 | 62.8 | 64.0 | 60.4 | 47.2 | 34.4 | 18.4 | 43.3 | 93 | —25 | May 22 | Oct. 7 |
| Coupeville | 31.6 | 42.3 | 43.0 | 47.9 | | | | | | | | | | | 6 | Apr. 18 | |
| Crescent | 16.7 | 32.5 | 40.6 | 44.0 | 52.0 | 60.2 | 63.5 | 64.2 | 59.6 | 45.6 | 36.8 | 23.0 | 44.9 | 98 | —24 | May 15 | Sept. 22 |
| Davenport | | | | 42.8 | 51.2 | 59.6 | 62.8 | 64.3 | 60.3 | 46.4 | 37.4 | 21.6 | | 96 | | May 20 | Sept. 18 |
| Dayton | 26.0 | 40.4 | 44.8 | 46.9 | 54.5 | 63.3 | 66.9 | 67.8 | 62.4 | 52.5 | 43.5 | 27.8 | 49.7 | 96 | —20 | May 8 | Oct. 8 |
| Detroit | 34.4 | 41.5 | 44.8 | 48.2 | 53.0 | 60.5 | 62.2 | 62.5 | 60.8 | 52.0 | 45.2 | 36.5 | 50.1 | 93 | 11 | May 5 | Nov. 13 |
| Duckabush | 28.8 | 36.8 | 41.1 | 46.3 | 49.9 | 59.2 | 60.2 | 60.8 | 61.2 | 49.0 | 39.8 | 31.0 | 47.0 | 87 | 5 | May 10 | Oct. 17 |
| Eastsound | 30.0 | | 41.9 | | | | | | | | | [m]35.4 | | | 2 | | |
| Ellensburg | 15.6 | 32.9 | 41.6 | 45.9 | 53.6 | 61.9 | 65.2 | 64.8 | 59.0 | 46.7 | 34.9 | 19.3 | 45.1 | 96 | —28 | May 10 | Sept. 18 |
| Ephrata | 18.4 | 35.7 | 45.6 | 50.0 | 58.2 | 67.9 | 72.3 | 73.2 | 68.0 | | | [b]24.6 | | 103 | —12 | May 13 | |
| Forks | 31.2 | | | | | | | | | | | [b]37.7 | | | 7 | | |
| Fort Simcoe | 22.5 | 39.2 | 47.0 | 50.6 | 58.6 | 67.4 | 70.4 | [a]72.0 | 66.9 | 54.4 | 40.4 | 26.4 | 51.3 | 100 | —13 | Apr. 20 | Nov. 13 |
| Goldendale | | | | | | | [a]64.8 | 66.0 | 62.3 | 51.6 | 40.0 | 24.6 | | | | | Oct. 17 |
| Hatton | 20.8 | 38.8 | 44.8 | 47.6 | 56.0 | 64.8 | 68.4 | 68.6 | 63.9 | 51.4 | 41.5 | 25.3 | 49.3 | 106 | —26 | May 14 | Sept. 18 |
| Kennewick | 23.8 | [a]41.8 | 47.6 | 52.8 | 60.0 | 69.4 | 72.2 | 70.4 | | 52.7 | 46.0 | 27.4 | | 104 | —21 | May 8 | Oct. 8 |
| Kettle Falls | | | 41.4 | 46.4 | 55.8 | 63.6 | 66.0 | 66.2 | 61.4 | 48.0 | 38.4 | 24.4 | | 98 | | May 14 | Oct. 7 |
| Kiona | 23.9 | 41.8 | 47.0 | 52.0 | 59.5 | 69.7 | 71.8 | 70.2 | 66.0 | 54.2 | 44.4 | 28.6 | 52.4 | 101 | —22 | May 8 | Oct. 16 |
| Kosmos | 33.0 | 41.4 | 44.2 | 47.2 | 52.9 | 60.4 | 61.6 | 61.6 | 58.6 | 50.8 | 41.2 | 30.2 | 48.6 | 97 | 3 | May 22 | Oct. 17 |
| La Center | 30.8 | 40.3 | 43.2 | 46.1 | 51.5 | 58.8 | 60.8 | 61.7 | 60.0 | 49.7 | 43.9 | 31.1 | 48.2 | 93 | — 6 | May 29 | Oct. 17 |
| La Crosse | 23.2 | 39.2 | 44.4 | 46.4 | 54.6 | 62.4 | 66.2 | 66.8 | 62.2 | 49.8 | 42.2 | 28.0 | 48.8 | 104 | —26 | June 13 | Sept. 18 |
| Lake Kachess | 17.8 | 32.0 | 37.8 | 39.5 | 46.8 | 55.8 | 59.4 | 60.0 | 57.8 | 45.8 | 35.2 | 21.0 | 42.4 | 93 | —16 | May 21 | July 21 |
| Lakeside | 16.1 | 31.0 | 41.2 | 49.6 | 58.6 | 66.0 | 70.2 | 70.9 | 65.8 | 51.2 | 38.6 | 23.0 | 48.5 | 100 | —13 | Apr. 4 | Nov. 12 |
| Lester | 26.8 | 36.4 | 42.7 | 43.8 | 49.4 | 56.7 | 59.6 | 59.4 | 57.8 | 48.6 | 39.2 | 30.0 | 45.9 | 94 | — 2 | June 13 | Aug. 5 |
| Lone Tree | | | | | | 56.4 | 59.0 | 59.2 | 58.0 | 53.4 | 46.6 | 38.2 | | 80 | | | Nov. 15 |
| Lucerne | | | 41.5 | 47.0 | 55.4 | | | | | | | | | | | | |
| Lyle | 22.7 | 39.3 | 44.8 | 48.5 | 54.8 | 63.4 | 65.5 | 66.4 | 60.2 | 50.6 | 35.8 | 20.3 | 47.7 | 101 | —22 | Apr. 21 | Oct. 28 |
| Mottinger | 34.6 | 43.6 | 50.6 | 55.2 | 61.6 | 69.0 | 72.4 | 72.8 | 68.4 | 56.0 | 44.5 | 30.8 | 55.0 | 101 | —10 | Apr. 21 | Sept. 16 |
| Mount Pleasant | 30.6 | 42.0 | 46.4 | 49.4 | 53.5 | 60.3 | 61.4 | 63.2 | 61.7 | 53.6 | 45.2 | 35.1 | 50.2 | 90 | — 2 | Apr. 17 | Nov. 14 |
| Moxee | 17.1 | [a]37.0 | 44.2 | 48.4 | 57.0 | 65.9 | 68.2 | 67.3 | 62.8 | [a]50.6 | 40.6 | 23.4 | 48.5 | 101 | —28 | May 10 | Sept. 18 |
| Newport | | | | | | | | | | 49.2 | 37.8 | 23.2 | | | | | |

[1] Thermometers not self-registering.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *Washington*—Con. | | | | | | | | | | | | | | | | | |
| *North Head | 38.3 | 42.6 | 44.1 | 46.6 | 48.3 | 53.1 | 56.0 | 56.6 | 55.2 | 52.3 | 46.6 | 39.5 | 48.3 | 84 | 20 | Jan. 22 | Nov. 14 |
| *Northport | 17.6 | 28.1 | 34.1 | a40.7 | 50.8 | 58.2 | 60.8 | c59.8 | 156.7 | 41.0 | 32.6 | 25.0 | 42.1 | 94 | −32 | (1) | (1) |
| *North Yakima | a19.4 | a38.3 | d46.6 | ..... | ..... | ..... | ..... | ..... | 63.5 | 50.7 | 40.0 | 24.6 | ..... | ..... | −21 | Mar. 29 | Oct. 7 |
| Nutland | ..... | ..... | ..... | ..... | ..... | ..... | 70.8 | 72.5 | 67.0 | 55.6 | 43.2 | 28.6 | ..... | 100 | ..... | ..... | Nov. 13 |
| Odessa | ..... | a39.2 | 43.6 | 46.4 | 54.0 | 63.4 | 66.8 | 67.0 | 62.2 | 47.0 | 39.7 | 25.6 | ..... | 102 | ..... | May 17 | Sept. 30 |
| Olga | 31.9 | 42.0 | 43.6 | 46.8 | 50.9 | 56.2 | 57.4 | 57.6 | 55.4 | 49.6 | 44.2 | 36.7 | 47.7 | 78 | 1 | May 21 | Oct. 7 |
| Olympia | 34.2 | 41.3 | 44.0 | 47.2 | 51.6 | 58.8 | 60.8 | 60.8 | 58.4 | 51.4 | 45.0 | 34.6 | 49.0 | 91 | 2 | May 22 | Oct. 15 |
| Omak | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 21.7 | ..... | ..... | ..... | ..... | ..... |
| Oroville | ..... | b34.2 | 45.1 | 50.7 | 59.8 | ..... | 70.2 | 71.2 | 65.6 | 49.4 | 39.8 | 24.8 | ..... | 102 | ..... | May 11 | Sept. 22 |
| Pomeroy | 25.1 | 38.9 | 43.2 | 44.4 | 52.0 | 62.1 | 68.2 | a68.0 | 65.0 | ..... | ..... | 29.2 | ..... | 99 | −15 | May 6 | ..... |
| *Port Crescent | 30.7 | 38.4 | 39.9 | 42.3 | 46.4 | 51.2 | 53.9 | 53.2 | 51.4 | 46.6 | 41.6 | 35.4 | 44.2 | 78 | 7 | May 21 | Nov. 13 |
| Port Townsend | 33.7 | 42.5 | 44.4 | 47.6 | 51.0 | 57.6 | 57.9 | 59.0 | 57.0 | 50.7 | 44.6 | 37.2 | 48.6 | 80 | 12 | Feb. 13 | Nov. 14 |
| Pullman | 24.8 | ..... | 41.6 | 42.8 | 50.8 | ..... | f63.4 | 65.6 | 60.9 | 48.9 | d36.9 | 26.4 | ..... | 100 | −14 | May 11 | Sept. 20 |
| Quinlault | 34.4 | 38.5 | 42.9 | 47.2 | 50.6 | 57.4 | 58.8 | 60.2 | 58.4 | 50.8 | 42.5 | 34.0 | 49.0 | 90 | 15 | May 21 | Nov. 6 |
| Republic | 11.0 | 28.3 | 36.6 | 40.4 | 49.2 | 56.7 | 59.6 | a60.0 | 57.0 | 43.8 | 33.7 | 17.6 | 41.2 | 95 | −32 | May 30 | July 17 |
| Rex Creek | a23.0 | a35.0 | c43.2 | m51.7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2 | Mar. 23 | ..... |
| Rock Lake | 20.2 | 34.6 | 41.9 | 44.4 | ..... | 60.6 | 64.3 | 66.6 | b62.0 | ..... | a40.0 | 26.3 | ..... | 100 | −23 | June 24 | Sept. 18 |
| Rosalia | 21.8 | 34.6 | 41.4 | 43.9 | 53.1 | 61.2 | 64.8 | 66.2 | 60.6 | 48.8 | 39.2 | 27.0 | 46.9 | 97 | −22 | May 5 | Oct. 7 |
| *Seattle | 34.2 | 42.0 | 44.1 | 47.7 | 52.3 | 59.4 | 60.6 | 61.6 | 60.1 | 52.2 | 45.5 | 36.4 | 49.7 | 84 | 12 | Mar. 11 | Nov. 14 |
| Sedro Woolley | 30.6 | 41.0 | ..... | 48.4 | 53.4 | 61.2 | 61.2 | 60.4 | 57.8 | 51.2 | 42.3 | b33.4 | ..... | 91 | 4 | May 23 | Oct. 7 |
| Sixprong | 23.4 | 40.3 | 46.8 | 50.8 | 57.5 | 68.2 | 70.6 | 71.4 | 67.3 | 54.0 | 42.2 | 27.1 | 51.6 | 102 | −20 | Apr. 7 | Nov. 12 |
| Skagit Power Dam | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 61.6 | 60.0 | 49.6 | 39.2 | 32.2 | ..... | ..... | ..... | ..... | ..... |
| Snohomish | 33.2 | 42.2 | 44.5 | ..... | ..... | ..... | m60.0 | 59.2 | 59.2 | 51.8 | 43.6 | 33.4 | ..... | 89 | 3 | Mar. 25 | Oct. 18 |
| Snoqualmie Falls | 31.6 | 39.7 | 43.4 | 47.2 | 53.0 | 60.9 | 63.1 | 61.8 | 59.0 | 49.4 | 43.6 | 33.2 | 48.8 | 90 | 10 | Apr. 22 | Oct. 17 |
| South Bend | 34.4 | 41.3 | 45.6 | 46.3 | 53.9 | 59.1 | 60.5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 4 | May 15 | ..... |
| *Spokane | 21.6 | 35.1 | 42.2 | 45.0 | 53.7 | 62.4 | 65.9 | 66.7 | 61.4 | 48.8 | 40.0 | 25.7 | 47.4 | 97 | −16 | Apr. 30 | Oct. 17 |
| State University | a31.4 | 41.0 | 42.8 | 47.4 | c52.2 | 59.5 | 60.8 | 61.6 | 60.4 | 52.0 | 44.8 | 35.1 | f49.1 | 86 | 10 | Mar. 15 | Nov. 14 |
| Sumner | 32.6 | 41.6 | 43.8 | 47.0 | 52.6 | 58.6 | 60.2 | 60.4 | 58.6 | 51.4 | 44.8 | 34.0 | 48.8 | 90 | − 7 | May 22 | Oct. 30 |
| Sunnyside | 22.2 | 39.2 | 44.5 | 48.9 | 56.0 | 66.2 | 68.4 | 66.2 | 63.2 | 51.5 | 43.0 | 27.0 | 49.7 | 100 | −21 | May 10 | Sept. 18 |
| *Tacoma | 34.2 | 41.6 | 44.1 | 47.3 | 52.4 | 59.6 | 60.9 | 61.6 | 59.7 | 51.4 | 45.2 | 35.3 | 49.4 | 86 | 9 | Mar. 22 | Nov. 15 |
| *Tatoosh Island | 35.6 | 41.6 | 43.6 | 46.0 | 48.2 | 52.1 | 54.4 | 54.4 | 53.0 | 51.0 | 45.5 | 39.8 | 47.1 | 69 | 14 | Mar. 5 | Dec. 3 |
| Tieton | 20.0 | 33.2 | 44.0 | 46.7 | 53.0 | 62.8 | 66.5 | 67.0 | 60.6 | 49.4 | 39.9 | 20.4 | 47.0 | 96 | −17 | May 26 | Oct. 7 |
| Touchet | ..... | ..... | ..... | 51.4 | 58.8 | 65.4 | 70.2 | 67.7 | 63.8 | 51.6 | 45.2 | 27.8 | ..... | 101 | ..... | May 8 | Sept. 23 |
| Trinidad | 16.7 | 35.5 | 45.4 | 49.2 | ..... | ..... | ..... | 74.3 | 68.4 | 53.8 | a39.1 | 23.3 | ..... | 102 | −14 | Apr. 17 | Oct. 7 |
| Twisp | ..... | ..... | ..... | a46.2 | ..... | i62.7 | 66.2 | e66.4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *Vancouver | 31.6 | 42.9 | 47.0 | 50.1 | 54.4 | 62.2 | 63.5 | 65.0 | 62.4 | 53.4 | 45.9 | 34.8 | 51.1 | 94 | − 8 | Apr. 21 | Nov. 14 |
| Vashon Island | 34.6 | 41.7 | 43.6 | 47.1 | 52.0 | 58.4 | 60.2 | 59.6 | 57.9 | 50.0 | 45.1 | 36.4 | 48.9 | 82 | 13 | Apr. 18 | Nov. 15 |
| Wahluke | 21.0 | a39.4 | 46.8 | 53.1 | e60.8 | a69.6 | 71.7 | 69.0 | a65.9 | c53.4 | 43.2 | 27.6 | 51.8 | 104 | −20 | Apr. 18 | Sept. 23 |
| *Walla Walla | 26.2 | 43.2 | 48.0 | 50.8 | 57.8 | 66.6 | 70.9 | 71.8 | 66.1 | 54.6 | 45.2 | 28.0 | 52.4 | 100 | −12 | Mar. 21 | Nov. 14 |
| Waterville | 8.9 | a25.4 | f33.8 | f43.4 | e51.4 | ..... | ..... | ..... | b60.8 | a46.3 | a34.6 | b17.0 | ..... | ..... | −29 | May 22 | Sept. 18 |
| *Wenatchee | 16.2 | 33.0 | 41.2 | 46.4 | 54.1 | 62.8 | 66.8 | 67.9 | 63.1 | 49.0 | 36.6 | 21.2 | 46.5 | 95 | −16 | May 5 | Nov. 1 |
| Wilbur | 15.2 | 31.8 | 40.7 | 43.3 | 51.8 | 60.0 | 62.8 | ..... | 58.4 | 46.7 | 37.0 | 21.2 | ..... | 96 | −27 | (2) | (2) |
| Yale | 31.4 | 39.3 | 45.0 | 47.8 | 53.0 | 60.0 | 62.0 | 63.0 | 61.7 | 53.5 | 43.6 | 35.6 | 49.7 | 93 | 3 | May 21 | Oct. 27 |
| Zindel | 25.9 | 42.7 | 51.4 | a53.0 | 62.6 | 73.4 | 74.0 | 75.5 | 65.2 | 56.3 | 45.2 | 26.2 | 54.3 | 107 | −12 | Apr. 18 | Nov. 8 |
| *West Virginia.* | | | | | | | | | | | | | | | | | |
| Arbovale | 34.0 | 38.1 | 36.8 | 49.0 | 56.0 | 65.8 | 64.0 | 65.4 | 58.5 | ..... | ..... | ..... | ..... | 86 | ..... | May 12 | Sept. 25 |
| Bancroft | 37.6 | 41.1 | 42.1 | 55.4 | 62.5 | 73.6 | 72.8 | 73.8 | 66.6 | 51.6 | 50.7 | 29.9 | 54.8 | 95 | 2 | Apr. 12 | Oct. 13 |
| Bayard | 31.5 | 36.2 | 34.2 | 47.7 | 56.1 | 67.0 | 65.2 | 64.8 | 58.3 | 44.8 | 43.6 | 23.7 | 47.8 | 91 | − 3 | May 13 | Sept. 25 |
| Beckley | 40.4 | 44.8 | 41.0 | 52.2 | 59.4 | 69.9 | 67.9 | 70.0 | 62.8 | 50.1 | 51.0 | 29.8 | 53.3 | 91 | ..... | May 12 | Sept. 28 |
| Bens Run | 36.1 | 39.4 | 40.8 | 52.8 | 62.2 | 71.9 | 71.9 | 73.2 | 67.0 | 52.2 | 51.4 | 28.8 | 54.0 | 93 | 1 | Apr. 11 | Oct. 13 |
| Bluefield | 37.4 | 40.0 | 42.0 | 54.8 | 60.2 | 70.2 | 68.8 | 70.0 | 62.6 | 51.6 | 49.8 | 31.1 | 53.2 | 90 | 0 | ..... | ..... |
| Buckhannon | 37.2 | 39.5 | 40.2 | 52.0 | 60.9 | 71.0 | 69.4 | 69.4 | 61.9 | 47.8 | 48.4 | 28.8 | 52.2 | 92 | − 3 | May 12 | Sept. 28 |
| Burlington | 34.2 | 41.5 | 40.5 | 52.2 | 61.4 | 71.1 | 69.6 | 70.2 | 63.0 | 49.6 | 47.8 | 29.2 | 52.5 | 98 | 0 | May 4 | Oct. 13 |
| Cairo | 37.8 | 40.3 | 42.4 | 53.6 | 61.8 | 72.8 | 72.2 | 72.6 | 66.3 | 50.6 | 50.3 | 30.0 | 54.2 | 94 | 0 | May 4 | Sept. 28 |
| Central Station | 35.4 | 38.0 | 39.1 | 52.5 | 59.8 | 70.6 | 69.1 | 69.0 | 59.6 | 47.8 | 48.2 | 26.4 | 51.3 | 93 | − 1 | May 12 | Sept. 28 |
| *Charleston | 42.4 | 46.5 | 46.6 | 58.6 | 65.0 | 74.1 | 74.1 | 75.4 | 67.5 | 54.8 | 54.3 | 33.4 | 57.7 | 94 | 5 | Apr. 11 | Oct. 13 |
| *Creston | 37.8 | 39.9 | 42.0 | 53.8 | 63.4 | 73.2 | 73.2 | 73.2 | 66.1 | 50.6 | 49.3 | 29.8 | 54.4 | 94 | 5 | Apr. 24 | Oct. 13 |
| Cuba | 38.2 | 39.8 | 41.4 | 53.4 | 61.2 | 71.0 | 70.2 | 71.4 | 64.9 | 49.5 | 50.4 | 29.7 | 53.4 | 92 | − 5 | May 2 | Sept. 28 |
| Doane | 41.0 | 45.1 | 46.3 | 57.2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Elkhorn | 42.0 | 42.6 | 42.9 | 54.8 | 61.3 | 69.8 | 69.4 | 69.6 | 63.0 | 51.8 | 50.8 | 32.2 | 54.2 | 90 | 0 | May 2 | Oct. 17 |
| *Elkins | 35.8 | 38.8 | 37.4 | 49.8 | 58.4 | 69.1 | 67.8 | 68.8 | 61.4 | 47.6 | 47.4 | 26.6 | 50.7 | 91 | − 2 | May 12 | Sept. 28 |
| *Fairmont | 37.0 | 40.0 | 40.8 | 52.6 | 61.0 | 72.3 | 71.4 | 72.4 | 65.3 | 49.9 | 48.2 | 28.4 | 53.3 | 96 | 3 | May 12 | Oct. 13 |
| Franklin | ..... | ..... | ..... | ..... | ..... | ..... | 68.4 | 68.0 | 61.0 | 46.9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *Glenville | 38.2 | 40.4 | 42.8 | 54.8 | 63.4 | 74.4 | 72.8 | 73.5 | 66.2 | 51.2 | 50.0 | 30.5 | 54.8 | 97 | 1 | May 4 | Oct. 13 |
| Grafton | 37.4 | 40.3 | 40.6 | 53.2 | ..... | ..... | ..... | 71.6 | 64.6 | 50.3 | 49.0 | 28.5 | ..... | ..... | 0 | May 12 | Oct. 13 |
| Green Sulphur Spgs. | 37.2 | 41.8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *Hinton | 38.2 | 42.8 | 43.2 | 55.3 | 62.2 | 72.2 | 71.6 | ..... | 65.4 | 52.0 | 48.2 | ..... | ..... | ..... | ..... | Apr. 11 | Oct. 13 |
| *Huntington | 37.3 | 41.3 | 42.2 | 56.0 | 64.0 | 74.6 | 74.4 | 75.5 | 66.2 | 51.4 | 49.7 | 29.2 | 55.2 | 96 | 0 | Apr. 11 | Oct. 13 |
| Lewisburg | 35.8 | 39.8 | 40.4 | 52.4 | 60.0 | 71.0 | 69.0 | 69.2 | 62.2 | 49.0 | 47.4 | 29.0 | 52.1 | 94 | − 3 | May 12 | Sept. 27 |
| Logan | 43.6 | 47.6 | 48.8 | 59.8 | 65.2 | 74.2 | 73.0 | 74.9 | 68.8 | 57.0 | 54.9 | 35.0 | 58.6 | 96 | 4 | May 2 | Oct. 13 |
| Lost City | 37.8 | 41.3 | 40.1 | 52.0 | 59.6 | 69.5 | 68.9 | 69.0 | 62.8 | 50.3 | 48.8 | 30.4 | 52.5 | 90 | 2 | May 4 | Oct. 13 |
| Lost Creek | 37.8 | 40.3 | 40.3 | 52.1 | 60.0 | 70.4 | 70.0 | 70.9 | 64.4 | 49.6 | 49.1 | 28.8 | 52.8 | 92 | − 2 | May 12 | Sept. 28 |
| Madison | ..... | 42.2 | 43.0 | 53.5 | 62.8 | 73.6 | 72.6 | 73.9 | 64.7 | 51.2 | 49.6 | 28.3 | ..... | 95 | ..... | Apr. 23 | Oct. 13 |
| Mannington | 35.6 | 39.5 | 40.9 | 52.7 | 60.8 | 71.2 | 70.1 | 71.0 | 64.2 | 48.8 | 47.4 | 27.0 | 52.4 | 93 | − 5 | May 12 | Sept. 28 |
| Marlinton | ..... | ..... | ..... | ..... | ..... | ..... | 64.8 | 65.2 | 58.6 | 44.6 | 43.2 | 24.9 | ..... | ..... | ..... | ..... | ..... |
| Martinsburg | 31.7 | 39.7 | 39.7 | 51.0 | 61.8 | 72.2 | 74.0 | 71.8 | 64.2 | 50.1 | 47.4 | 29.6 | 52.6 | 98 | 3 | Apr. 24 | Oct. 20 |
| Moorefield | 36.2 | 42.3 | 40.6 | 53.0 | ..... | 71.1 | 71.2 | 70.9 | 64.4 | 49.6 | 50.5 | 28.0 | ..... | 99 | − 1 | ..... | Sept. 28 |
| Morgantown | 37.4 | 40.0 | 39.7 | 52.4 | 60.6 | 70.8 | 70.5 | 71.7 | 65.2 | 51.2 | 50.5 | 28.0 | 53.2 | 92 | 1 | Apr. 24 | Oct. 13 |
| *Moundsville | 37.6 | 40.0 | 40.7 | 53.4 | 61.6 | 72.8 | 72.8 | 73.0 | 66.4 | 51.4 | 50.8 | 29.2 | 54.1 | 94 | − 2 | May 12 | Oct. 13 |
| New Cumberland | 33.0 | 35.7 | 37.0 | 50.0 | 59.7 | 68.8 | 68.8 | 69.7 | 64.1 | 48.4 | 48.4 | 26.0 | 50.8 | 91 | − 5 | May 12 | Oct. 13 |
| New Martinsville | 38.6 | 41.0 | 42.1 | ..... | 62.8 | 72.9 | 73.1 | 73.5 | 67.3 | 52.2 | 51.5 | 30.4 | ..... | 95 | 0 | Apr. 24 | Oct. 13 |
| Nuttallburg | 33.2 | 36.6 | 36.4 | 50.0 | ..... | ..... | 66.6 | 66.4 | 69 2 | 58.8 | 47.2 | 48.1 | 24.5 | ..... | 91 | − 1 | Sept. 23 |
| *Parkersburg | 38.0 | 40.8 | 41.6 | 53.3 | 62.4 | 72.9 | 72.4 | 73.0 | 65.6 | 50.8 | 52.0 | 29.6 | 54.4 | 93 | 1 | Apr. 11 | Oct. 13 |
| Parsons | 35.4 | 38.4 | 37.9 | 49.7 | 57.8 | 69.2 | 67.2 | 68.3 | 61 6 | 47.0 | 47.6 | 25.8 | 50.5 | 91 | −10 | May 12 | Sept. 29 |
| *Philippi | 37.3 | 40.6 | 40.8 | 52.4 | 60.8 | 70.8 | 69.0 | 70.2 | 63.4 | 49.0 | 48.6 | 28.4 | 52.6 | 93 | − 3 | May 12 | Sept. 28 |
| Pickens | 35.9 | 37.1 | 36.4 | 50.4 | 58.1 | 67.8 | 65.8 | 65.8 | 59.2 | 46.5 | 48.6 | 25.4 | 49.8 | 93 | − 6 | May 12 | Sept. 28 |
| Pineville | 34.4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 53.2 | 51.2 | ..... | ..... | ..... | ..... | ..... | ..... |
| *Point Pleasant | 37.6 | 40.0 | 42.6 | 54.4 | 62.3 | 72.0 | 72.0 | 72.8 | 65.7 | 51.6 | 50.7 | 29.8 | 54.3 | 94 | 1 | Apr. 15 | Oct. 13 |
| Powellton | 41.6 | 44.4 | 45.3 | 58.0 | 64.4 | 74.0 | 72.5 | 73.6 | 67.4 | 53.6 | 52.0 | 33.2 | 56.7 | 95 | 5 | Apr. 11 | Oct. 12 |

[1] Killing frosts occurred during every month of year.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *West Virginia*—Con. | | | | | | | | | | | | | | | | | |
| Princeton | 35.8 | 37.0 | 37.4 | 50.0 | 56.0 | 65.8 | 64.5 | 65.0 | 59 0 | 46.2 | 44.0 | 26 8 | 49.0 | 83 | — 4 | May 12 | Sept. 28 |
| Robertsburg | | | | 62.2 | 72.4 | 71.8 | 73.9 | 65.6 | 50.8 | 49.2 | 28.6 | | | | | | Oct. 13 |
| Romney | 31.6 | 39.8 | 37.9 | 51.4 | 61.3 | 71.8 | 72.4 | 70.5 | 63.8 | 49.6 | 46.8 | 27.8 | 52.1 | 98 | 3 | May 12 | Oct. 13 |
| Ryan | 38.2 | 40.6 | 41.5 | 53.3 | 61.2 | 71.2 | 70.4 | 70.8 | 63.4 | 48.4 | 49.7 | 29.4 | 53.2 | 93 | — 2 | May 12 | Sept. 27 |
| *Smithfield | 34.6 | 37.8 | 38.9 | 51.0 | 59.0 | 69.7 | 69.0 | 69.7 | 62.0 | 47.6 | 47.7 | 24.9 | 51.0 | 89 | — 2 | May 5 | Oct. 13 |
| Southside | | 41.1 | 42.0 | | | | | | | | | | | | | | |
| Spencer | 34.8 | 38.0 | 39.4 | 52.6 | 60.0 | 69.9 | 69.4 | 70.0 | 63.6 | 49.2 | 48.6 | 29.0 | 52.0 | 93 | — 1 | May 12 | Sept. 27 |
| *Sutton | 36.6 | 41.3 | 42.5 | 56.1 | 63.2 | 75.5 | 74.0 | 76.4 | 68.0 | | 49.8 | 29.2 | | 101 | | Apr. 22 | |
| Terra Alta | 32.6 | 35.5 | 35.2 | 50.2 | 55.1 | 69.1 | 66.2 | 67.4 | 58.4 | 49.2 | 47.0 | 28.0 | 49.5 | 92 | — 5 | May 12 | Oct. 12 |
| Union | 35.3 | 38.8 | 39.4 | 50.8 | 58.2 | 70.1 | 68.2 | 67.9 | 60.7 | 46.3 | 45.2 | 26.6 | 50.6 | 91 | — 1 | May 2 | Sept. 28 |
| Upper Tract | 37.2 | 42.6 | 41.2 | 53.4 | 59.9 | 70.6 | 69.1 | 69.6 | 63.4 | 50.0 | 49.4 | 29.4 | 53.0 | 94 | 3 | May 12 | Sept. 28 |
| Valleyfork | 39.6 | 43.4 | 44.0 | 55.6 | 62.6 | 70.4 | 72.0 | 72.7 | 65.2 | 53.8 | 47.8 | 32.0 | 54.9 | 94 | 6 | May 3 | Sept. 28 |
| Webster Springs | | 41.8 | 40.0 | 53.2 | 60.6 | 72.0 | 70.4 | 71.8 | 64.0 | 50.4 | 50.4 | 28.7 | | 94 | | May 3 | Oct. 13 |
| Wellsburg | 33.4 | 36.0 | 36.8 | 49.4 | 58.9 | 69.2 | 68.9 | 69.8 | 62.9 | 49.0 | 48.8 | 25.8 | 50.7 | 87 | — 1 | May 2 | Oct. 13 |
| *Weston | 38.1 | 41.4 | 38.6 | 52.2 | 59.8 | 69.8 | 68.9 | 68.4 | 62.2 | 48.4 | 47.6 | 32.0 | 52.3 | | 6 | May 4 | Sept. 28 |
| *Wheeling | 33.9 | 37.0 | 38.4 | 51.4 | 61.1 | 72.6 | 71.8 | 72.6 | 63.6 | 47.8 | 47.6 | 26.9 | 52.1 | 96 | — 2 | Apr. 24 | Oct. 13 |
| *Williamson | 42.7 | 45.9 | 47.8 | 60.2 | 66.2 | 75.2 | 74.6 | 77.2 | 69.8 | 55.5 | 52.6 | 34.2 | 58.5 | 98 | — 1 | May 2 | Oct. 13 |
| *Wisconsin.* | | | | | | | | | | | | | | | | | |
| Antigo | 16.3 | 19.6 | 26.2 | 35.8 | 49.6 | 65.2 | 66.8 | 68.4 | 57.7 | 43.4 | 37.9 | 15.2 | 41.8 | 93 | —32 | May 11 | Sept. 1 |
| Appleton | 19.6 | 23.4 | 28.3 | 39.0 | 53.8 | 66.4 | 70.5 | 71.0 | 59.2 | 46.2 | 41.0 | 17.0 | 44.6 | 98 | —23 | May 11 | Sept. 26 |
| Ashland | 18.2 | 20.4 | 30.2 | 38.0 | 49.2 | 65.0 | 69.0 | 68.8 | 58.4 | 45.7 | 37.7 | 17.8 | 43.2 | 93 | —26 | May 10 | Sept. 25 |
| Barron | 12.8 | 15.5 | 25.6 | 35.4 | 51.9 | 64.6 | 68.7 | 68.4 | a56.8 | 43.4 | 35.6 | 11.7 | 40.9 | 90 | —37 | May 11 | Sept. 1 |
| Beloit | | d26.0 | 34.5 | 42.4 | 56.6 | a67.4 | 71.2 | b72.6 | b61.0 | 46.4 | 45.0 | 17.6 | | 95 | | May 4 | Oct. 14 |
| Brodhead | 22.4 | 26.7 | 33.4 | 42.9 | 57.2 | 67.8 | 72.2 | 73.6 | 61.7 | 47.8 | 44.2 | 15.2 | 47.1 | 99 | —20 | May 11 | Oct. 12 |
| Burnett | a18.8 | 23.2 | 29.6 | 40.2 | 53.8 | 65.0 | 68.4 | 70.4 | 59.4 | 45.2 | 42.3 | 14.2 | 44.2 | 96 | —23 | May 11 | Oct. 12 |
| Cecil | 18.0 | 21.2 | 27.4 | 37.6 | 52.8 | 66.2 | 70.0 | 72.9 | 60.4 | 44.2 | 40.7 | 17.2 | 44.0 | 94 | —30 | May 10 | Sept. 1 |
| Chilton | 20.0 | 23.6 | a28.6 | 38.8 | 53.6 | 65.8 | 69.4 | 70.4 | 59.5 | 45.7 | 41.8 | 15.2 | 44.4 | 96 | —22 | May 11 | Oct. 12 |
| Crandon | 12.4 | 18.1 | 23.2 | 33.1 | 50.2 | 64.0 | 65.5 | 67.8 | 55.4 | 44.2 | 36.3 | 15.8 | 40.5 | 92 | —35 | May 18 | Sept. 7 |
| Delavan | 22.8 | 25.8 | 32.0 | 41.8 | 55.0 | 66.4 | 69.4 | 72.4 | 61.0 | 46.4 | 44.1 | 16.2 | 46.1 | 98 | —19 | May 11 | Sept. 27 |
| Dodgeville | | c20.4 | 30.1 | | | | | | | 47.6 | 42.8 | | | | | | Oct. 12 |
| Downing | 14.0 | 17.5 | d25.8 | e34.8 | 54.1 | 64.7 | 67.5 | 69.9 | 57.0 | 45.2 | 37.2 | 10.4 | 41.5 | 92 | —44 | May 11 | Sept. 1 |
| Eau Claire | 16.2 | 19.8 | 29.2 | 39.6 | 56.6 | 67.1 | 71.1 | 73.2 | 59.9 | 46.3 | 38.6 | 13.9 | 44.3 | 94 | —32 | May 10 | Oct. 11 |
| Ellsworth | | d20.5 | b28.3 | 38.1 | a53.7 | 64.0 | | | f61.4 | | | | | | | May 9 | Sept. 2 |
| Florence | a14.6 | 17.0 | 23.2 | 32.3 | 49.4 | b63.0 | b65.6 | b66.2 | c53.8 | 42.1 | 35.6 | 17.4 | 40.0 | 90 | —28 | June 18 | Sept. 7 |
| Fond du Lac | 20.0 | 23.9 | 29.0 | 39.0 | 53.6 | 67.0 | 69.8 | 72.0 | 60.2 | 45.7 | 41.2 | 15.2 | 44.7 | 99 | —23 | May 18 | Sept. 25 |
| *Grand Rapids | 17.2 | 20.6 | 27.0 | 38.4 | 54.6 | 66.6 | 69.7 | 71.8 | 59.2 | 45.0 | 39.5 | 13.7 | 43.6 | 96 | —28 | May 11 | Sept. 1 |
| Grand River Locks | 18.6 | 21.8 | 29.8 | 40.6 | 55.3 | 66.8 | 70.0 | 72.0 | 59.2 | 44.9 | 40.2 | 15.0 | 44.5 | 98 | —26 | May 12 | Sept. 25 |
| Grantsburg | 12.5 | 14.4 | 26.1 | 36.4 | 53.8 | 65.0 | 68.6 | 70.4 | 57.1 | 44.6 | 35.6 | 11.0 | 41.3 | 92 | —34 | May 10 | Sept. 1 |
| *Green Bay | 19.3 | 22.2 | 29.4 | 38.3 | 53.3 | 66.3 | 70.4 | 71.4 | 59.8 | 45.8 | 41.4 | 17.0 | 44.6 | 95 | —20 | May 3 | Oct. 13 |
| Hancock | 16.7 | 20.0 | 26.8 | 38.5 | 54.6 | 66.7 | 70.8 | 71.3 | 59.4 | 44.3 | 39.2 | 14.4 | 43.6 | 97 | —27 | May 10 | Oct. 12 |
| Hatfield | 15.9 | c18.0 | a26.3 | 39.2 | f52.6 | | | | f60.6 | | | 14.8 | | 98 | —34 | May 11 | Sept. 1 |
| Hayward | 12.1 | 14.5 | 24.8 | 33.6 | a50.3 | 64.8 | b65.3 | 68.3 | 56.4 | a43.6 | a35.2 | 11.8 | 40.1 | 90 | —38 | May 19 | Sept. 1 |
| Herbster | 16.0 | 14.0 | f23.8 | 35.0 | d44.5 | d60.4 | d61.8 | 63.4 | | 39.6 | | | | 96 | —22 | July 3 | Sept. 1 |
| Hillsboro | 16.4 | 19.8 | 26.5 | 39.0 | 54.0 | 64.4 | 67.8 | 70.7 | 57.8 | 42.9 | 38.6 | 12.2 | 42.5 | 97 | —27 | May 11 | Sept. 25 |
| Iron River | | | | | | | | n68.5 | 58.2 | 44.6 | 36.0 | 14.5 | | | | | Sept. 1 |
| Kewaunee | 20.8 | 23.8 | 29.7 | 37.8 | 48.9 | 59.4 | 65.5 | 69.8 | 59.1 | 45.6 | 41.5 | 18.6 | 43.4 | 95 | —19 | May 10 | Oct. 12 |
| Koepenick | 12.6 | 17.8 | 23.4 | 32.4 | 49.8 | 61.9 | 63.7 | 65.7 | 54.3 | 41.0 | 35.6 | 14.2 | 39.4 | 91 | —37 | June 18 | Sept. 1 |
| *La Crosse | 18.2 | 21.9 | 30.0 | 40.5 | 57.4 | 67.8 | 71.9 | 74.1 | 60.7 | 46.9 | 40.1 | 15.2 | 45.4 | 96 | —22 | May 4 | Oct. 14 |
| Lakemills | 20.6 | 24.8 | 31.6 | 40.8 | 55.4 | 66.3 | 70.3 | 72.0 | 60.4 | 45.4 | 42.2 | 16.3 | 45.5 | 99 | —21 | May 10 | Oct. 12 |
| Lancaster | 19.2 | b24.7 | 30.6 | | a57.6 | c68.2 | b72.4 | 73.6 | 61.0 | 47.0 | 42.4 | 14.2 | | 97 | —23 | May 10 | Oct. 12 |
| Long Lake (Eagle River) | 13.8 | c17.5 | 22.2 | 31.4 | 48.4 | 62.2 | 63.4 | 65.0 | 54.0 | 41.5 | 35.2 | 16.0 | 39.2 | 93 | —44 | June 18 | Sept. 1 |
| *Madison | 20.6 | 23.6 | 30.4 | 40.5 | 55.4 | 66.6 | 70.4 | 72.6 | 60.8 | 46.8 | 42.6 | 15.4 | 45.5 | 95 | —22 | May 3 | Oct. 12 |
| Manitowoc | 22.1 | 25.8 | 31.1 | 38.2 | 50.8 | 61.5 | 67.1 | 69.2 | 59.2 | 45.5 | 41.8 | 18.3 | 44.2 | 98 | —18 | May 4 | Oct. 12 |
| Mather | 16.8 | 19.4 | 26.7 | 38.8 | 54.7 | 64.8 | 67.4 | 69.6 | 57.3 | 42.5 | 36.8 | 13.1 | 42.3 | 97 | —29 | May 11 | Aug. 30 |
| Mauston | 18.7 | 21.6 | 28.2 | 40.2 | 55.4 | 65.2 | 69.0 | 71.6 | 59.0 | 45.2 | 41.0 | 14.8 | 44.2 | 95 | —27 | May 11 | Sept. 1 |
| Meadow Valley | 16.6 | 19.2 | 26.2 | 38.4 | 54.4 | 65.2 | 68.8 | 70.8 | 58.6 | 44.4 | 38.6 | 13.8 | 42.9 | 97 | —30 | May 11 | Sept. 1 |
| Medford | 16.5 | 20.2 | 28.1 | 36.2 | 54.4 | 68.0 | 69.4 | 71.2 | 58.1 | a43.2 | 37.0 | 13.8 | 43.0 | 95 | —35 | May 11 | Sept. 1 |
| Menomonee Falls | c22.4 | 27.4 | 33.8 | | | | 70.8 | 71.1 | 59.8 | 45.8 | 43.5 | 18.1 | | | —22 | | Oct. 12 |
| Merrill | 14.2 | 18.7 | | | 50.7 | | | 71.4 | 58.8 | 45.2 | | 18.1 | | | —48 | June 18 | Sept. 1 |
| *Milwaukee | 24.4 | 27.4 | 33.0 | 40.5 | 52.5 | 63.2 | 70.2 | 71.9 | 61.6 | 47.6 | 44.9 | 18.8 | 46.3 | 95 | —17 | May 3 | Oct. 14 |
| Minocqua | 13.2 | 17.3 | 23.0 | 31.8 | 49.8 | 64.8 | 66.5 | 67.7 | 56.2 | a44.6 | 33.5 | 14.2 | 40.2 | 92 | —40 | May 11 | Sept. 25 |
| Mondovi | 16.0 | 19.0 | 27.8 | 39.6 | 55.1 | 65.8 | 69.4 | 72.2 | 59.2 | 45.9 | 39.0 | 12.4 | 43.4 | 95 | —32 | May 10 | Sept. 1 |
| Mount Horeb | 19.7 | 23.6 | 29.6 | 40.4 | 54.6 | 66.0 | 70.4 | 73.4 | 60.2 | 45.4 | 41.4 | 13.9 | 44.9 | 98 | —23 | May 10 | Oct. 12 |
| *Muscoda | | | | | | | 71.8 | 73.8 | 60.8 | 45.0 | 43.4 | 17.6 | | | | | Sept. 25 |
| Neillsville | 16.2 | 19.8 | 27.4 | 38.0 | 56.0 | 67.6 | 70.2 | 72.6 | 59.4 | 44.9 | 38.8 | 13.4 | 43.7 | 99 | —36 | May 11 | Sept. 1 |
| New London | 18.2 | 21.8 | 28.4 | 39.0 | 54.6 | 67.4 | 71.6 | 71.6 | 59.8 | 45.9 | 40.2 | 15.8 | 44.5 | 99 | —24 | May 10 | Sept. 27 |
| New Richmond | 14.4 | 17.1 | 28.5 | 38.6 | 55.3 | 66.6 | 70.3 | 72.9 | a59.6 | 46.2 | 37.7 | 15.4 | 43.6 | 95 | —31 | May 10 | Sept. 1 |
| Oconto | 19.6 | 22.0 | 29.0 | 36.8 | 52.8 | 65.8 | 69.5 | 70.4 | 59.1 | 45.4 | 40.5 | 19.1 | 44.2 | 95 | —21 | May 11 | Sept. 27 |
| Osceola | 13.0 | 16.4 | 29.0 | 37.7 | 54.3 | 66.0 | 69.8 | 71.8 | 58.8 | 44.8 | 36.8 | 11.8 | 42.5 | 95 | —42 | May 11 | Sept. 1 |
| Oshkosh | 19.2 | 23.3 | 29.8 | a39.1 | 54.2 | a66.5 | 70.4 | d71.0 | a59.6 | a45.3 | a40.8 | a14.6 | 44.3 | 96 | —25 | May 10 | Sept. 27 |
| Pine River | 18.1 | 21.7 | 28.5 | 39.0 | 54.3 | 65.6 | 70.0 | 70.6 | 59.5 | a45.0 | 40.4 | 14.6 | 43.9 | 99 | —26 | May 10 | Sept. 1 |
| Plum Island (Detroit Harbor) | 22.0 | | 29.0 | 35.4 | 47.2 | 60.0 | 66.6 | 68.4 | 57.6 | 45.9 | 45.4 | 24.4 | | 87 | —11 | May 11 | Oct. 12 |
| *Portage | 19.0 | 23.0 | 30.2 | 40.2 | 56.9 | 67.2 | 70.8 | 72.1 | 60.1 | 45.4 | 42.0 | 15.4 | 45.2 | 96 | —25 | May 10 | Sept. 26 |
| Port Washington | 22.2 | 25.5 | 32.1 | 39.4 | 51.6 | 62.2 | 68.4 | 70.9 | 61.0 | 48.6 | 43.6 | 18.7 | 45.4 | 93 | —20 | May 4 | Oct. 12 |
| *Prairie du Chieu | 20.6 | 25.6 | 32.5 | 41.8 | 58.4 | 69.4 | 72.5 | 73.8 | 61.7 | 49.0 | 44.8 | 17.0 | 47.4 | 103 | —20 | May 11 | Oct. 12 |
| Prentice | 13.8 | 15.9 | 23.0 | 33.2 | | b63.8 | 64.2 | c66.7 | 53.6 | 41.9 | 37.0 | 12.4 | | 96 | —42 | | Sept. 1 |
| Racine | 25.5 | 29.5 | 33.8 | 41.0 | 52.6 | 63.0 | 71.0 | 72.9 | 61.8 | 47.7 | 45.2 | 19.2 | 46.9 | 96 | —15 | May 4 | Oct. 12 |
| *Rhinelander | 15.4 | 17.6 | 25.0 | 34.0 | 51.7 | 65.2 | a66.8 | 67.8 | c57.4 | b43.1 | 37.0 | 16.4 | 41.4 | 92 | —37 | May 18 | Sept. 24 |
| Sauk City | 22.3 | 23.7 | 31.8 | 43.0 | 57.6 | 68.8 | 71.8 | c74.8 | 61.0 | 46.7 | 43.6 | 16.0 | 46.8 | 101 | —24 | May 10 | Sept. 27 |
| Sheboygan | 23.7 | 27.0 | 32.1 | 39.6 | 50.8 | 62.6 | 69.8 | 71.8 | 60.6 | 47.2 | 43.6 | 19.6 | 45.7 | 95 | —18 | May 4 | Oct. 12 |
| Shullsburg | 23.6 | 25.6 | 30.4 | 40.6 | 55.4 | 65.6 | 69.8 | 72.4 | 60.4 | 46.2 | 43.1 | 15.2 | 45.7 | 93 | —20 | May 11 | Oct. 12 |
| Solon Springs | 13.8 | 14.0 | 25.3 | 34.2 | 48.1 | 61.6 | 65.4 | 67.7 | 55.6 | 42.2 | 33.5 | 12.3 | 39.5 | 92 | —39 | May 17 | Sept. 1 |
| Spooner | 13.5 | 15.4 | 23.3 | 35.7 | 51.5 | 64.8 | 67.6 | 69.0 | 56.2 | 44.9 | 35.5 | 12.2 | 41.0 | 90 | —32 | May 10 | Sept. 1 |
| Stanley | 15.0 | 19.0 | 26.9 | 37.2 | 53.7 | 64.4 | 67.2 | 69.4 | 58.0 | 45.3 | 37.6 | 13.4 | 42.3 | 90 | —37 | May 10 | Sept. 1 |
| Stevens Point | | 20.8 | 26.4 | 37.4 | b63.6 | | | d71.2 | a58.0 | 44.4 | j 36.6 | 14.4 | | | —18 | May 11 | Sept. 1 |
| Sturgeon Bay | 20.2 | 22.2 | 28.2 | 35.7 | 49.0 | 60.3 | 65.2 | 69.0 | 58.8 | 44.6 | 40.8 | 19.8 | 42.8 | 93 | —17 | May 11 | Oct. 12 |
| Superior | | | | | 44.1 | 59.0 | 65.4 | 65.7 | 55.6 | 43.0 | b 34.6 | 14.6 | | 89 | | May 10 | Oct. 12 |
| Valley Junction | 15.8 | 19.0 | 26.2 | 39.2 | 55.7 | 65.9 | 69.4 | 71.2 | 57.0 | 44.0 | 33.6 | 14.1 | 43.0 | 94 | —28 | May 11 | Sept. 1 |

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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*—Contd. | | | | | | | | | | | | | | | | | |
| Viroqua | 18.6 | 21.7 | 29.0 | 40.4 | 56.4 | 66.4 | 70.7 | 73.4 | 60.0 | 46.3 | 40.8 | 14.3 | 44.8 | 96 | −25 | May 10 | Oct. 11 |
| Vudesare | 12.3 | 14.6 | a21.1 | 28.6 | 48.2 | 61.5 | 62.7 | 65.6 | 53.2 | a40.6 | 33.6 | 14.8 | 38.1 | 88 | −38 | June 18 | Sept. 1 |
| *Watertown | 19.6 | 23.2 | 29.9 | 39.8 | 55.7 | 64.8 | 69.0 | 70.4 | 58.7 | 44.6 | 41.0 | 17.0 | 44.5 | 95 | −24 | May 10 | Oct. 12 |
| Waukesha | 22.0 | 25.7 | 31.9 | 41.0 | 54.7 | a65.8 | 70.6 | 72.2 | 60.4 | 46.0 | 44.3 | 16.6 | 45.9 | 98 | −20 | May 10 | Oct. 12 |
| Waupaca | 17.6 | 21.1 | 27.4 | 38.4 | 53.6 | 66.1 | 70.2 | 71.0 | 59.2 | 44.4 | 39.7 | 15.2 | 43.7 | 97 | −29 | May 11 | Sept. 27 |
| Wausau | 16.4 | 20.6 | 27.4 | 37.3 | 53.4 | 65.7 | 68.6 | 70.0 | 58.0 | 45.4 | 39.8 | 16.6 | 43.3 | 93 | −32 | May 11 | Sept. 27 |
| Weyerhaeuser | 13.0 | 16.4 | 25.7 | 35.4 | 54.4 | 63.8 | 65.8 | 68.2 | 56.4 | 42.8 | 36.0 | 12.4 | 40.9 | 91 | −40 | May 11 | Sept. 1 |
| Whitehall | | | | | | | | b71.4 | 58.1 | 45.4 | 39.0 | 13.0 | | | −31 | May 11 | Sept. 1 |
| *Wyoming.* | | | | | | | | | | | | | | | | | |
| Afton | | 20.9 | | 33.0 | 44.3 | 56.0 | | | | | | 10.4 | | | −28 | | |
| Alta | | | | | | | | 61.0 | 50.6 | 40.8 | 30.8 | 11.2 | | | | | |
| Basin | 9.4 | 21.4 | 35.4 | 42.3 | 54.2 | 67.9 | 75.2 | 75.0 | 59.6 | 46.6 | 35.2 | 5.8 | 44.0 | 110 | −36 | May 18 | Sept. 23 |
| Bedford | 22.6 | 20.3 | 26.7 | 30.6 | 42.4 | 54.0 | 58.4 | 60.2 | 53.5 | 41.5 | 31.4 | 8.7 | 37.5 | 87 | −25 | (1) | (1) |
| Border | 18.6 | 17.2 | 22.2 | 31.9 | 45.6 | 57.4 | 62.4 | 64.0 | 52.9 | 41.8 | 31.8 | 6.0 | 37.6 | 94 | −32 | (1) | (1) |
| Casper | | | | | | | | | | 50.2 | 39.8 | 17.4 | | | | | |
| *Cheyenne | 30.4 | 27.6 | 30.5 | 36.0 | 46.8 | 61.3 | 68.0 | 68.2 | 57.0 | 46.4 | 38.6 | 19.2 | 44.2 | 93 | −13 | May 25 | Sept. 22 |
| Chugwater | 28.4 | 27.5 | 33.5 | 38.4 | 46.2 | 61.2 | 68.0 | 69.3 | 59.6 | 44.7 | 38.0 | 14.2 | 44.1 | 95 | −23 | May 15 | Sept. 14 |
| Clark | 22.0 | 28.0 | 36.0 | 39.6 | 51.9 | 63.4 | 70.7 | 72.4 | 60.0 | 49.6 | 38.6 | 15.6 | 45.6 | 100 | −23 | May 6 | Oct. 8 |
| Cody | | | | | | | | | 57.9 | 46.8 | 36.6 | 12.1 | | | | | Sept. 18 |
| Crystal Lake Res | | | | | | 57.4 | 63.8 | 64.3 | 53.8 | 46.3 | 38.9 | | | 88 | −17 | May 29 | Sept. 14 |
| Daniel | 13.7 | 10.5 | 20.0 | 27.4 | 39.5 | 53.6 | 58.4 | 58.6 | 48.5 | 39.6 | 29.0 | 8.0 | 33.9 | 92 | −40 | (1) | (1) |
| Dome Lake | | | | | | | | 55.3 | 47.5 | 39.0 | 27.6 | 12.2 | | 81 | −18 | (1) | (1) |
| Douglas | | | | | | 68.3 | 73.1 | 74.2 | 61.2 | 51.4 | 41.8 | 17.2 | | 101 | | | Oct. 8 |
| Dubois | 25.5 | 23.4 | 28.6 | 33.8 | 41.6 | 54.3 | 60.2 | 59.0 | 51.2 | 42.4 | 34.0 | 18.8 | 39.4 | 86 | −18 | June 1 | Sept. 18 |
| Eatons Ranch | 22.7 | 30.4 | 34.1 | 37.6 | 50.6 | 61.8 | 69.0 | 71.2 | 59.9 | 49.4 | 41.4 | 18.9 | 45.6 | 97 | −24 | May 18 | Oct. 8 |
| Eden | | 11.5 | 21.5 | 34.4 | 43.8 | 56.7 | 64.2 | 64.6 | 52.4 | 40.2 | 29.4 | −1.8 | | 95 | −40 | June 11 | Sept. 12 |
| Encampment | | | 29.5 | 34.0 | 45.4 | 58.2 | 65.2 | 65.2 | 55.2 | 45.8 | 35.2 | 15.1 | | 87 | −25 | May 26 | Sept. 12 |
| Ervay | 25.4 | 23.6 | 28.3 | 33.8 | 44.5 | 58.3 | 66.0 | 66.3 | | 47.0 | 34.4 | 14.0 | | 92 | −19 | May 26 | Sept. 22 |
| Evanston | 23.4 | 20.0 | 25.4 | 33.4 | 43.8 | 56.8 | 62.1 | 63.4 | 52.3 | 44.2 | 34.2 | 12.0 | 39.2 | 91 | −26 | June 10 | Sept. 12 |
| Fontenelle | 17.3 | 16.4 | 25.4 | 32.1 | | | | | | | | | | | −30 | | |
| Fort Laramie | 30.6 | 28.2 | 33.6 | 41.5 | 51.4 | 65.8 | 72.4 | 75.6 | 62.1 | 48.0 | 37.8 | 12.2 | 46.6 | 101 | −24 | May 14 | Sept. 23 |
| Gillette | 20.3 | 24.8 | 32.4 | 37.8 | 49.4 | 64.6 | 69.5 | 73.9 | 60.8 | 49.8 | 37.0 | 13.2 | 44.5 | 110 | −21 | May 18 | Oct. 7 |
| Granite Canon | 29.4 | 25.0 | 27.8 | 33.0 | 44.3 | 55.7 | 62.6 | 63.0 | 52.8 | 45.0 | 36.8 | 20.2 | 41.3 | 88 | −15 | May 25 | Sept. 22 |
| Green River | 25.1 | 21.8 | 30.6 | 37.7 | 48.0 | 61.3 | 68.6 | 69.5 | 56.0 | 46.2 | 33.0 | 11.1 | 42.4 | 98 | −32 | June 10 | Sept. 19 |
| Hunters Station | 20.0 | 20.2 | 22.9 | 27.0 | 37.9 | 51.6 | 56.9 | 59.4 | 49.0 | 39.8 | 32.4 | 10.9 | 35.7 | 85 | −21 | (1) | (1) |
| Hyattville | 22.6 | 26.5 | 35.2 | 40.8 | 51.3 | 64.2 | 70.3 | 71.2 | 59.8 | 48.2 | 37.2 | 12.7 | 45.0 | 99 | −23 | May 25 | Sept. 23 |
| Independence | 25.9 | 21.6 | 26.2 | 34.8 | 45.4 | 57.8 | 65.6 | 64.7 | 55.4 | 46.2 | 32.6 | 11.7 | 40.7 | 96 | −25 | May 28 | Sept. 22 |
| Kaycee | 24.0 | 27.2 | 33.6 | 38.4 | 49.4 | 62.9 | 73.6 | 71.4 | | | | | | 104 | −26 | May 18 | |
| Kendall | | 11.2 | 19.6 | 24.4 | 38.2 | 50.7 | 56.2 | 58.1 | | | | | | 86 | −23 | (1) | (1) |
| Kirtley | 21.8 | 24.2 | 29.8 | 37.6 | 47.8 | 61.4 | 68.2 | 70.2 | 58.2 | 47.1 | 36.6 | 13.8 | 43.1 | 95 | −25 | May 18 | Sept. 23 |
| Kirwin | | | | 22.6 | 32.4 | 46.2 | 52.6 | 53.0 | 43.8 | 37.1 | 27.0 | 8.6 | | 75 | | (1) | (1) |
| *Lander | 24.4 | 24.5 | 30.6 | 37.2 | 46.9 | 60.9 | 68.5 | 68.2 | 56.4 | 45.0 | 33.0 | 3.7 | 41.6 | 96 | −30 | May 19 | Sept. 23 |
| Laramie | 28.1 | 23.2 | 28.8 | 32.9 | 43.2 | 57.2 | 65.0 | 64.2 | 54.0 | 44.8 | 36.1 | 14.2 | 41.0 | 90 | −23 | May 26 | Sept. 22 |
| Leo | 25.1 | 20.2 | 27.0 | 33.4 | 42.4 | 57.2 | 64.1 | 66.0 | 52.0 | 43.8 | 35.6 | 13.9 | 40.1 | 90 | −23 | June 12 | Sept. 14 |
| Lolobama Ranch | | | | | 40.2 | 52.8 | 57.6 | 58.3 | 51.8 | 40.4 | 30.6 | 15.4 | | 88 | −24 | (1) | (1) |
| Lovell | | | | 39.8 | 51.3 | 64.7 | 70.4 | 71.6 | 60.2 | 46.8 | 35.5 | 9.6 | | 102 | −24 | May 13 | Oct. 8 |
| Lusk | 25.8 | 27.4 | 32.6 | 38.4 | 50.3 | 63.6 | 70.8 | 69.4 | 57.3 | 44.9 | 36.9 | 13.7 | 44.3 | 95 | −18 | May 17 | Sept. 18 |
| Luther | 24.2 | 26.2 | 32.0 | 36.6 | 47.6 | | | | | 47.6 | 40.9 | 15.8 | | | −16 | | |
| Moorcroft | 19.4 | 23.6 | 31.8 | 38.5 | 47.4 | 65.5 | 70.3 | 74.4 | 62.3 | 44.6 | 33.7 | 5.8 | 43.1 | 104 | −30 | May 18 | Oct. 9 |
| Moore | 30.5 | 27.5 | 31.6 | 37.9 | 47.4 | 59.9 | 65.6 | 67.7 | 57.8 | 48.0 | 39.7 | 19.3 | 44.4 | 91 | −34 | May 19 | Sept. 23 |
| Newcastle | 19.6 | 24.4 | 32.8 | 34.1 | 47.0 | 64.8 | 72.6 | 76.5 | 60.4 | 46.4 | 35.0 | 13.2 | 43.9 | 101 | −24 | May 19 | Sept. 23 |
| Pathfinder | 27.0 | 24.8 | 31.7 | 39.4 | 49.5 | 63.3 | 70.6 | 69.8 | 58.6 | 47.6 | 35.6 | 13.6 | 44.3 | 98 | −16 | May 18 | Sept. 23 |
| Phillips | 29.6 | 27.5 | 31.0 | 40.1 | 48.6 | 63.8 | 69.4 | 69.2 | 59.4 | 48.9 | 39.2 | 19.0 | 45.5 | 93 | −20 | May 15 | Oct. 8 |
| Pine Bluff | 34.4 | 29.2 | 34.8 | 39.9 | 52.0 | 64.0 | 71.1 | 73.0 | | | | | | 98 | | May 7 | |
| Pinedale | 15.5 | 13.1 | 20.8 | 28.7 | 40.2 | | | | | 39.4 | 28.6 | 8.4 | | | −34 | | |
| Powell | 13.5 | 23.1 | 34.2 | 37.8 | 49.1 | 63.8 | 71.0 | 72.8 | 59.8 | 46.8 | 34.8 | 9.2 | 42.9 | 100 | −31 | May 16 | Oct. 8 |
| Riverton | 23.7 | 26.2 | 31.8 | | 50.2 | 64.2 | | | | 46.8 | | | | | −40 | | |
| Saratoga | | | | | | 59.2 | 64.3 | 64.8 | 53.9 | 45.0 | 35.6 | 14.4 | | 88 | −30 | May 30 | Sept. 13 |
| *Sheridan No. 1 | 15.9 | 24.2 | 32.2 | 37.0 | 48.6 | 61.4 | 68.0 | 68.2 | 58.2 | 45.6 | 34.8 | 10.2 | 42.0 | 99 | −27 | May 18 | Sept. 24 |
| Sheridan No. 2 | 16.2 | 24.9 | 34.2 | 38.5 | 49.8 | 60.2 | 66.6 | 68.1 | 58.4 | 46.6 | 35.4 | 11.0 | 42.5 | 98 | −28 | May 19 | Sept. 24 |
| Shoshone Dam | 24.0 | 30.4 | 35.3 | 37.6 | 49.2 | 62.0 | 69.2 | 72.2 | 60.5 | 50.2 | 39.4 | 18.3 | 45.7 | 100 | −20 | May 21 | Sept. 18 |
| Soldiers Home | 22.7 | 26.6 | 33.6 | 36.6 | 47.4 | 61.2 | 70.4 | 74.2 | 60.2 | 49.6 | 38.2 | 17.2 | 44.8 | 103 | −25 | May 29 | Oct. 8 |
| South Pass City | | | | | | | 57.6 | 57.6 | 47.4 | 38.8 | 28.7 | 9.0 | | 84 | −30 | (1) | (1) |
| Thermopolis | 22.4 | 25.5 | 35.6 | 40.4 | 50.6 | 64.7 | 72.6 | 73.1 | 60.8 | 47.2 | 36.2 | 7.4 | 44.7 | 104 | −30 | May 19 | Sept. 19 |
| Wiley | 21.2 | 25.7 | 33.3 | 35.9 | 47.0 | 60.9 | 68.6 | 71.0 | 58.7 | 47.2 | 37.0 | 19.0 | 43.8 | 97 | −22 | May 18 | Sept. 18 |
| Willow Creek Cabin | 18.8 | 15.4 | 23.2 | 28.2 | 37.8 | 53.0 | 54.8 | 59.0 | | 39.1 | 30.2 | 6.4 | | 84 | −24 | (1) | (1) |
| Wyncote | 27.2 | 28.3 | 33.8 | 42.8 | 52.6 | 65.7 | 71.2 | 73.4 | 64.4 | 48.6 | 38.7 | 16.6 | 46.9 | 96 | −26 | May 15 | Oct. 9 |
| *Yellowstone Park | 21.2 | 21.0 | 28.0 | 30.8 | 42.3 | 55.0 | 60.8 | 62.6 | 51.4 | 42.2 | 30.8 | 12.4 | 38.2 | 88 | −18 | May 19 | Sept. 18 |
| Fountain Hotel | | | | | | | 58.2 | 56.1 | 47.3 | 36.4 | 26.7 | 8.1 | | 87 | | (1) | (1) |
| Grand Canyon | | | | | | | | 5.36 | 44.0 | 33.6 | 22.4 | | | | | (1) | (1) |
| Lake Hotel | 14.8 | 13.4 | 20.5 | 23.0 | 33.8 | 47.6 | 53.8 | 55.4 | 45.6 | 35.8 | 24.6 | 6.7 | 31.2 | 89 | −33 | (1) | (1) |
| Norris Geyser Basin | 18.8 | | 22.0 | 24.0 | 33.8 | | 54.4 | 55.2 | 44.4 | 36.0 | 28.2 | 7.6 | | 84 | −35 | (1) | (1) |
| Riverside | 20.8 | 19.0 | 25.8 | 28.7 | 38.6 | 51.2 | 56.8 | 58.2 | 47.7 | 35.8 | 28.0 | 8.5 | 34.9 | 88 | −32 | (1) | (1) |
| Snake River | 18.3 | 16.0 | 22.9 | 26.8 | 37.4 | 50.8 | 57.1 | 58.2 | 47.8 | 38.0 | 28.4 | 8.0 | 34.1 | 89 | −35 | (1) | (1) |
| Soda Butte | 20.4 | 16.0 | 25.6 | 28.2 | 39.4 | 51.4 | 56.5 | 57.8 | 47.2 | 38.2 | 29.6 | 5.8 | 34.7 | 88 | −31 | (1) | (1) |
| Sylvan Pass | | | 27.3 | 29.6 | 39.5 | 52.2 | 55.8 | 56.4 | 47.0 | 38.2 | 28.4 | 11.4 | | 89 | −21 | (1) | (1) |
| Thumb Hotel | | | | | | | 53.6 | 57.2 | 46.6 | 37.2 | 26.6 | 8.4 | | 88 | | (1) | (1) |
| Tower Falls | | | | 30.5 | 41.6 | 58.4 | 59.0 | 60.6 | 51.0 | 40.0 | 30.6 | 10.8 | | 90 | | (1) | (1) |
| Upper Geyser Basin | | | 21.8 | | 34.2 | 47.2 | | | 44.3 | 35.4 | 28.2 | 8.7 | | | | (1) | (1) |
| *Porto Rico.* | | | | | | | | | | | | | | | | | |
| Aibonito | 66.6 | c68.0 | 71.3 | 71.8 | 73.6 | 74.6 | 75.2 | 75.5 | 75.2 | 75.2 | 71.0 | 66.7 | 72.1 | 89 | 52 | None. | None. |
| Alto de la Bandera | 68.1 | 67.2 | 68.8 | 70.8 | 73.0 | 73.8 | 74.2 | 73.4 | 73.8 | 73.9 | 70.0 | 69.5 | 71.4 | 85 | 52 | None. | None. |
| Ansseo | 75.6 | 74.2 | 75.8 | 76.4 | 78.6 | 78.5 | 78.3 | 77.6 | 78.8 | 79.6 | 77.0 | 74.3 | 77.1 | 94 | 57 | None. | None. |
| Arecibo | 75.2 | 74.4 | 77.0 | 75.7 | 79.0 | 78.6 | 79.6 | 80.2 | 81.2 | 82.0 | 80.0 | 76.2 | 78.3 | 100 | 58 | None. | None. |
| Arecibo (Bacupey) | | | | 73.6 | 76.6 | 76.6 | 77.8 | 77.2 | 77.4 | 76.8 | 74.2 | 72.0 | | 92 | | None. | None. |
| Bayamon | 71.9 | 72.4 | 75.4 | 75.2 | 79.0 | 78.4 | 78.3 | 79.0 | 80.1 | 78.6 | 75.6 | 72.0 | 76.4 | 97 | 54 | None. | None. |
| Caguas | 71.0 | 71.7 | 75.4 | b75.5 | 78.4 | 78.9 | 79.3 | 79.2 | 79.3 | 79.5 | 76.3 | 71.2 | 76.4 | 95 | 54 | None. | None. |

[1] A temperature of 32° or below recorded every month of year.

MONTHLY AND ANNUAL MEAN TEMPERATURE, ETC., 1909—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. | | |
| *Porto Rico*—Contd. | | | | | | | | | | | | | | | | | |
| Canovanas | 73.8 | 74.2 | 77.0 | 77.0 | 79.9 | 79.6 | 80.2 | 80.4 | 81.5 | 80.8 | 77.7 | 74.7 | 78.1 | 98 | 60 | None. | None. |
| Cayey | 70.0 | 69.8 | 70.9 | 69.4 | ..... | ..... | 73.0 | ..... | ..... | ..... | ..... | 68.4 | ..... | ..... | 48 | None. | None. |
| Central Aguirre | 74.3 | 75.9 | 76.4 | 76.5 | ..... | 79.0 | 80.0 | 79.4 | 80.0 | 80.3 | 77.6 | 74.4 | ..... | 91 | 52 | None. | None. |
| Cidra | 69.4 | 69.3 | 71.0 | 71.8 | 74.6 | 75.0 | [a]76.3 | 75.8 | ..... | ..... | ..... | 68.8 | ..... | ..... | 49 | None. | None. |
| Comerio Falls | 72.4 | 71.0 | ..... | ..... | 77.1 | 77.8 | 78.0 | 78.2 | 78.4 | [a]77.8 | [c]74.0 | [a]71.6 | ..... | 94 | 50 | None. | None. |
| Coloso | 72.4 | 72.6 | 75.8 | 75.8 | ..... | ..... | ..... | ..... | ..... | 79.0 | 76.0 | 72.2 | ..... | ..... | 54 | None. | None. |
| Corozal | 72.4 | 72.6 | 74.4 | 74.4 | 77.4 | 78.0 | 78.3 | 78.4 | 79.4 | 78.8 | 76.1 | 73.9 | 76.2 | 95 | 55 | None. | None. |
| Culebra | 76.5 | 76.2 | 78.8 | 79.2 | 81.2 | 82.3 | 83.4 | 82.0 | 83.2 | 81.9 | 79.4 | 76.7 | 80.1 | 92 | 63 | None. | None. |
| Dorado | 73.8 | 72.9 | 75.4 | 75.8 | [b]78.7 | 78.8 | [a]78.9 | 79.8 | 80.2 | 79.8 | 77.4 | 75.7 | 77.3 | 95 | 62 | None. | None. |
| Fajardo | 76.6 | 75.4 | 76.8 | 78.2 | 80.6 | 80.6 | [a]81.5 | 80.8 | 82.2 | 82.4 | 81.2 | 71.9 | 79.0 | 95 | 58 | None. | None. |
| Guanica Centrale | 72.8 | 74.8 | 75.0 | 73.7 | 78.1 | 78.2 | 78.2 | 78.9 | 79.6 | 79.6 | 76.6 | 73.2 | 76.6 | 91 | 56 | None. | None. |
| Humacao | 72.2 | 73.0 | 75.2 | 75.8 | 78.2 | 78.9 | 79.8 | 79.2 | 79.6 | 79.2 | 77.0 | 73.6 | 76.8 | 92 | 58 | None. | None. |
| Isabela | 77.4 | [c]75.2 | 77.2 | 77.4 | 78.8 | 79.0 | 80.9 | 80.6 | 81.6 | 81.2 | 79.7 | 77.6 | 78.9 | 96 | 62 | None. | None. |
| Isolina | 69.6 | 70.0 | 72.8 | 72.7 | 75.2 | 76.0 | 77.6 | 76.6 | 76.8 | ..... | ..... | 70.9 | ..... | 92 | 54 | None. | None. |
| Jayuya | ..... | ..... | ..... | ..... | ..... | 75.6 | 76.8 | 76.5 | ..... | ..... | 72.2 | 70.0 | ..... | 92 | ..... | None. | None. |
| Juana Diaz | 76.0 | 77.0 | 78.2 | [c]78.2 | 79.2 | 79.2 | [a]80.8 | 79.6 | 81.1 | ..... | [f]77.4 | [f]75.6 | ..... | 99 | 57 | None. | None. |
| Juncos | ..... | ..... | [c]74.8 | 76.4 | 77.8 | 77.9 | 78.6 | 79.3 | 80.6 | 80.0 | 78.0 | ..... | ..... | 93 | ..... | None. | None. |
| La Carmelita A | 70.4 | 71.0 | ..... | ..... | 71.8 | 72.1 | 74.4 | 73.6 | 74.0 | 74.4 | 72.0 | 70.4 | ..... | 90 | 57 | None. | None. |
| Lares | 69.9 | 70.5 | 73.4 | 73.4 | [b]76.2 | 76.2 | 77.9 | [b]78.0 | 77.8 | 77.3 | 74.0 | 70.8 | 74.6 | 93 | 53 | None. | None. |
| Las Marias | 68.4 | 71.0 | 70.4 | 71.3 | 74.2 | 74.8 | 76.6 | 76.0 | 76.0 | 74.6 | 72.9 | 68.8 | 72.9 | 91 | 51 | None. | None. |
| Manati | 72.4 | 72.6 | 74.8 | 74.8 | 78.4 | 78.7 | 79.8 | 79.2 | 79.8 | 79.2 | 75.8 | 72.7 | 76.5 | 99 | 58 | None. | None. |
| Mariao | 70.7 | 68.5 | 70.5 | 70.2 | 73.3 | 72.9 | 73.6 | 73.9 | 74.0 | 73.8 | 71.2 | 68.6 | 71.8 | 90 | 52 | None. | None. |
| Maunabo | 76.3 | 76.9 | 78.6 | 79.6 | 82.2 | 81.8 | 83.6 | [b]81.1 | 82.8 | 81.8 | 79.8 | 77.2 | 80.1 | 95 | 59 | None. | None. |
| Mayaguez | 73.4 | [a]73.4 | 75.1 | [d]74.8 | [d]77.6 | 77.6 | 78.1 | 78.8 | 79.3 | 78.5 | 76.3 | 74.4 | 76.4 | 94 | 55 | None. | None. |
| Naguabo | 75.2 | 75.7 | 77.0 | 77.7 | 79.4 | 80.4 | 81.6 | 81.0 | 81.2 | 81.0 | 78.5 | 75.8 | 78.7 | 93 | 60 | None. | None. |
| Ponce | 74.6 | 75.3 | 77.0 | 77.8 | 79.4 | 79.3 | 80.2 | 80.0 | 81.2 | 80.4 | 78.2 | 76.0 | 78.3 | 95 | 58 | None. | None. |
| Rio Blanco | [a]73.6 | 74.4 | 75.9 | 76.3 | [a]78.2 | 78.7 | 79.8 | 79.5 | [a]80.4 | [b]79.9 | [c]76.6 | 74.2 | 77.3 | 92 | 57 | None. | None. |
| San German | 72.7 | 73.2 | 73.9 | 74.0 | 75.8 | 77.2 | 79.0 | 78.8 | 79.8 | 79.0 | 76.6 | 74.5 | 76.2 | 94 | 54 | None. | None. |
| *San Juan | 74.6 | 74.6 | 76.8 | 76.6 | 79.2 | 79.0 | 80.4 | 79.4 | 81.0 | 80.4 | 77.2 | 74.8 | 77.8 | 92 | 64 | None. | None. |
| San Salvador | 68.8 | 69.2 | 71.7 | 71.6 | 74.3 | 74.8 | ..... | 75.0 | 75.6 | 74.3 | 71.2 | 68.3 | ..... | 90 | 53 | None. | None. |
| Santa Isabel | [n]74.6 | [m]76.0 | [g]77.4 | [b]77.5 | [c]78.7 | [c]79.2 | ..... | ..... | ..... | ..... | [d]77.3 | [a]74.3 | ..... | ..... | 58 | None. | None. |
| Vieques | 74.6 | 75.0 | 77.0 | 78.2 | 80.4 | 79.2 | 81.0 | 79.9 | 80.8 | 80.0 | 78.0 | 74.6 | 78.2 | 94 | 61 | None. | None. |
| Yauco | 73.4 | [a]74.5 | 76.4 | 76.7 | 79.4 | 79.5 | 80.5 | 80.0 | 81.0 | 80.5 | 78.0 | 74.2 | 77.8 | 96 | 50 | None. | None. |

# PART V.

## MONTHLY AND ANNUAL PRECIPITATION, 1909—ALL STATIONS.

The precipitation values given in the following tables have been taken largely from the records of unpaid cooperating observers. The paid stations of the Weather Bureau are indicated by an (*). Most of the cooperating observers have standard rain gages, the remainder having gages similar in pattern to the standard, or, in a few cases, improvised gages of their own construction.

The bracketed values have been obtained by a comparison of the data for adjacent stations, and are to be considered only as an approximation to the true amount.

The discrepancies between the amounts recorded by separate observers when two report from the same place are often considerable; in general, they are due to differences in exposure, although at times one observer may make the last measurement of the month at 6 o'clock a. m., whereas another observer may defer it to 9 p. m., thus causing a difference in the amounts recorded on the first and last days of the month.

The small roman letters in the body of the table indicate the number of days missing from the records for the months in which they appear; thus "$^{c}$" indicates three days missing, "$^{d}$" four days, etc.

The monthly and seasonal amounts of snowfall for the winter of 1909–10 are given for selected stations in the United States and Canada at the end of Part V.

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MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Alabama.* | | | | | | | | | | | | | |
| *Alaga | 1.04 | 4.34 | 2.36 | 3.82 | 3.96 | 4.36 | 8.73 | 1.86 | 3.62 | 1.04 | 0.10 | 4.62 | 39.85 |
| Albertville | 2.42 | 8.30 | 10.16 | 8.05 | 4.02 | 9.92 | 4.53 | ..... | ..... | ..... | ..... | ..... | ..... |
| *Anniston | 2.27 | 8.25 | 11.68 | 12.15 | 4.06 | 7.69 | 4.65 | 3.57 | 1.19 | 1.48 | 1.69 | 5.56 | 64.24 |
| Ashville | 3.00 | 7.67 | 10.68 | 7.48 | 4.31 | 10.25 | 3.08 | 2.33 | 1.85 | 1.83 | 1.44 | 5.25 | 59.17 |
| Auburn | 1.91 | 7.05 | 11.88 | 4.03 | 7.40 | 8.64 | 5.01 | 4.07 | 0.86 | 1.42 | 2.36 | 5.03 | 59.66 |
| *Benton | 0.72 | 7.33 | 11.20 | 5.62 | 6.26 | 4.83 | 2.95 | 2.04 | 2.90 | 0.46 | 0.96 | 6.89 | 52.16 |
| Bermuda | 1.09 | 9.88 | 5.01 | 6.42 | 7.10 | 9.64 | 7.05 | 4.70 | 2.72 | 1.02 | 1.33 | 9.24 | 65.20 |
| *Birmingham | 2.65 | 7.10 | 9.34 | 10.31 | 4.11 | 8.04 | 4.92 | 1.15 | 1.61 | 1.47 | 1.05 | 4.41 | 56.16 |
| Boligee | 2.35 | 6.49 | 11.12 | 8.91 | 8.13 | 7.68 | 2.60 | ..... | ..... | 1.66 | ..... | ..... | ..... |
| *Bridgeport | 3.47 | 8.13 | 7.57 | 5.02 | 10.18 | 6.58 | 4.63 | 2.23 | 4.17 | 4.90 | 0.90 | 4.52 | 62.30 |
| *Calera | 1.15 | 8.13 | 13.16 | 8.80 | 7.50 | 4.25 | 3.53 | 3.80 | 4.85 | 1.34 | 1.02 | 4.16 | 61.79 |
| Camp Hill | ..... | 6.71 | 11.42 | 5.77 | 8.40 | 6.51 | 3.82 | 2.37 | 3.04 | 0.85 | 1.48 | 2.42 | ..... |
| Cedar Bluff | 4.15 | 7.60 | 12.96 | 5.30 | 4.40 | 8.10 | 4.50 | 9.70 | 3.15 | 2.30 | 0.99 | 3.95 | 67.10 |
| Citronelle | 2.73 | 5.99 | 6.09 | 9.13 | 9.72 | 10.14 | 2.42 | 4.70 | 4.93 | 1.79 | 0.81 | 8.97 | 67.42 |
| *Clanton | 1.99 | 10.17 | 8.69 | 7.80 | 6.56 | 7.83 | 6.51 | 1.67 | 4.49 | 0.72 | 1.65 | 4.97 | 63.05 |
| *Cordova | 3.58 | 7.99 | 12.02 | 5.88 | 3.47 | 9.35 | 3.66 | 3.30 | 1.89 | 2.75 | 0.55 | 4.29 | 58.73 |
| Cullman | 4.74 | 8.90 | 10.23 | 8.01 | 4.11 | 9.50 | 2.07 | 1.23 | 3.54 | 2.23 | 1.31 | 4.93 | 60.80 |
| *Dadeville | 1.88 | 6.72 | 11.14 | 4.96 | 6.57 | 5.46 | 3.53 | 4.83 | 4.27 | 1.02 | 2.28 | 5.13 | 57.89 |
| Daphne | 1.26 | 4.71 | 3.36 | 5.84 | 10.32 | 11.85 | 8.79 | 8.07 | 6.51 | 3.07 | 0.68 | 6.61 | 71.07 |
| *Decatur | 3.01 | 7.32 | 6.28 | 6.79 | 7.05 | 5.66 | 6.14 | 1.45 | 2.72 | 3.11 | 2.35 | 6.61 | 58.49 |
| *Demopolis | 1.12 | 6.10 | 11.64 | 8.62 | 10.85 | 6.98 | 1.56 | 1.50 | 3.34 | 0.68 | 1.08 | 5.96 | 59.43 |
| Double Springs | 2.12 | ..... | 7.30 | 4.05 | 6.04 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *Eufaula | 0.59 | 6.48 | 7.55 | 3.73 | 5.01 | 4.18 | 8.46 | 2.10 | 1.66 | 0.70 | 0.34 | 4.08 | 44.90 |
| *Evergreen | ..... | 8.03 | 4.15 | 5.74 | 6.16 | 9.38 | 6.76 | 4.71 | 1.73 | 3.00 | 1.02 | 6.42 | ..... |
| Fayette | ..... | ..... | 12.04 | 6.37 | 4.81 | 9.12 | 4.91 | 0.92 | ..... | ..... | ..... | ..... | ..... |
| Flomaton | 2.66 | 6.85 | 2.38 | 11.70 | 5.60 | 9.75 | 3.40 | 5.25 | 2.78 | 0.95 | 0.55 | 4.26 | 56.15 |
| *Florence | 2.56 | 8.31 | 4.46 | 6.15 | 5.50 | 5.36 | 4.49 | 1.04 | 2.33 | 2.50 | 1.07 | 4.29 | 48.66 |
| *Fort Deposit | 0.93 | 7.81 | 7.71 | 4.30 | 7.12 | 11.54 | 6.73 | 6.44 | 1.71 | 1.23 | 1.13 | ..... | ..... |
| *Gadsden | 4.44 | 7.99 | 10.72 | 6.73 | 7.34 | 7.18 | 4.94 | 5.24 | 2.46 | 2.76 | 1.02 | 5.04 | 65.86 |
| *Goodwater | 0.34 | 7.93 | 11.93 | 6.32 | 5.97 | 3.91 | 4.15 | 3.96 | 2.67 | 0.62 | 1.20 | 5.24 | 54.24 |
| *Greensboro | 1.65 | 6.61 | 9.05 | 8.06 | 9.21 | 7.98 | 3.07 | 3.19 | 2.78 | 0.51 | 0.72 | 4.82 | 57.65 |
| *Greenville | 0.72 | 8.57 | 6.58 | 6.91 | 4.67 | 11.08 | 5.72 | 1.39 | 0.45 | 1.77 | 0.53 | 5.21 | 53.60 |
| *Guntersville | 3.08 | 8.74 | 8.12 | 7.08 | 6.61 | 14.28 | 4.68 | 1.43 | 2.54 | 1.78 | 1.17 | 4.30 | 63.76 |
| Hamilton | 2.97 | 11.53 | 7.52 | 8.48 | 6.64 | 4.01 | 5.56 | 0.68 | 1.85 | 1.11 | 1.08 | 3.60 | 55.03 |
| Highland Home | 0.92 | 6.17 | 7.70 | 6.06 | 5.87 | 12.19 | 3.94 | 2.67 | 1.86 | 1.40 | ..... | 5.71 | ..... |
| *Livingston | 2.23 | 4.77 | ..... | 7.04 | 9.80 | 7.60 | 6.35 | 2.96 | 2.96 | 2.24 | 1.25 | 4.45 | ..... |
| *Lock No. 4 | 2.38 | 8.62 | 11.31 | 8.56 | 6.09 | 7.21 | 3.74 | 2.19 | 1.77 | 2.36 | 0.87 | 4.71 | 59.81 |
| Lucy | 1.40 | 5.52 | 2.38 | 3.21 | 5.14 | 6.19 | 6.06 | 3.57 | 3.01 | 1.08 | 0.26 | 5.10 | 42.92 |
| Madison | 3.64 | 8.62 | 6.48 | 7.20 | 4.87 | 8.21 | 2.43 | 2.55 | 2.37 | 4.30 | 1.69 | 4.57 | 56.93 |
| Maple Grove | 4.39 | 8.04 | ..... | 7.76 | 4.48 | 8.85 | 5.82 | 3.98 | 1.08 | 1.15 | 1.13 | 5.30 | ..... |
| *Mentone | 2.88 | 9.52 | ..... | 4.77 | 6.75 | 10.61 | ..... | ..... | 0.67 | 3.95 | 0.92 | 4.41 | ..... |
| *Milstead | 0.78 | 7.44 | 8.64 | 4.49 | 6.57 | 7.50 | 3.97 | 3.54 | 3.03 | 0.87 | 1.84 | 5.50 | 54.17 |
| *Mobile | 1.50 | 4.08 | 2.39 | 9.04 | 12.10 | 10.44 | 8.28 | 5.63 | 5.42 | 1.60 | 0.50 | 7.50 | 68.48 |
| *Montgomery | 2.13 | 9.05 | 16.51 | 7.40 | 4.81 | 7.21 | 4.21 | 3.17 | 1.59 | 0.60 | 0.92 | 5.78 | 63.38 |
| Newbern | 0.93 | 7.76 | 11.45 | 10.53 | 6.68 | 6.25 | 3.34 | 3.79 | 6.02 | 0.49 | 1.23 | 5.04 | 63.51 |
| Oneonta | 2.17 | 7.38 | 14.65 | 6.18 | 6.82 | 9.14 | 4.85 | 6.32 | 1.10 | 1.66 | 1.82 | 4.35 | 66.44 |
| *Opelika | 1.42 | 7.26 | 11.47 | 4.88 | 6.62 | 6.66 | 2.45 | 3.36 | 1.41 | 1.28 | 1.63 | 5.05 | 53.49 |
| *Ozark | 0.60 | 8.23 | 4.60 | 4.00 | 4.85 | 5.06 | 5.30 | 4.28 | 4.20 | 0.20 | T. | ..... | ..... |
| Prattville | 2.61 | 6.38 | 11.31 | 4.92 | 4.39 | 6.80 | 2.35 | 1.52 | 2.87 | 0.67 | 1.92 | 5.62 | 51.36 |
| Pushmataha | 1.71 | 5.59 | 8.52 | 7.59 | 11.46 | 7.43 | 2.43 | 1.54 | 4.40 | 1.85 | 0.96 | 6.02 | 59.50 |
| *Riverton | 2.50 | 9.46 | 3.52 | 5.83 | 10.07 | 5.52 | 2.58 | 1.66 | 4.87 | 1.97 | 1.80 | 4.79 | 54.57 |
| Scottsboro | 3.23 | 6.87 | 9.95 | 4.79 | 3.55 | 10.37 | 4.59 | 1.33 | 1.90 | 3.01 | 1.16 | 3.83 | 54.58 |
| *Selma | 1.32 | 7.85 | 13.12 | 5.55 | 5.01 | 5.93 | 3.64 | 2.95 | 3.22 | 0.30 | 1.34 | 5.34 | 55.57 |
| Spring Hill | 1.89 | 3.96 | 2.03 | 9.40 | 12.27 | ..... | ..... | 6.80 | ..... | 1.70 | 0.20 | 10.94 | ..... |
| Talladega | 1.40 | 8.77 | 11.95 | 7.12 | 5.48 | 8.67 | 0.79 | 4.13 | 0.87 | 1.20 | 2.01 | 4.32 | 56.71 |
| *Tallassee | 2.23 | 8.65 | 11.71 | 5.27 | 5.34 | 7.18 | 3.70 | 2.66 | 0.56 | 1.27 | 1.67 | 5.43 | 55.67 |
| *Thomasville | 1.03 | 7.55 | ..... | 3.50 | 6.37 | 7.58 | 6.78 | 2.22 | 2.82 | 0.31 | 2.75 | 4.46 | ..... |
| Troy | 0.34 | 8.11 | 6.57 | 5.54 | 9.25 | 10.25 | 4.56 | 5.65 | 3.26 | 0.53 | 0.35 | 4.93 | 59.34 |
| *Tuscaloosa | 3.59 | 7.26 | 10.02 | 10.91 | 5.29 | 9.03 | 2.09 | 3.88 | 3.18 | 1.97 | 0.90 | 7.70 | 65.82 |
| *Tuscumbia | 2.16 | 8.41 | 4.07 | 5.51 | 7.34 | 6.02 | 5.91 | 0.76 | 3.58 | 3.33 | 1.68 | 4.28 | 53.05 |
| Tuskegee | 1.06 | 7.38 | 12.85 | 4.14 | 5.51 | 6.09 | 4.60 | 2.93 | 1.42 | 1.23 | 2.16 | 5.89 | 55.26 |
| *Union Springs | 1.28 | 9.72 | 10.70 | 5.98 | 5.45 | 9.96 | 5.99 | 4.65 | 8.06 | 1.23 | 1.54 | 5.57 | 70.13 |
| Uniontown | 0.81 | 6.47 | 10.79 | 7.28 | 6.67 | 3.16 | 2.41 | 4.77 | 3.15 | 0.33 | 1.02 | 4.55 | 51.41 |
| Valley Head | 4.35 | 9.26 | 11.13 | 5.87 | 5.30 | 11.18 | 7.83 | ..... | 1.20 | ..... | 1.10 | 4.11 | ..... |
| *Vienna | 2.40 | 5.88 | 6.32 | 9.45 | 7.58 | 9.20 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *Wetumpka | 1.78 | 6.97 | 10.83 | 5.95 | 8.15 | 4.07 | 2.69 | 1.60 | 2.54 | 0.40 | 2.11 | 5.09 | 52.18 |
| *Alaska.* | | | | | | | | | | | | | |
| Allachaket | 0.11 | 0.12 | 0.63 | 0.46 | 0.41 | 2.81 | 1.35 | 0.92 | 0.52 | 0.44 | 0.63 | 1.44 | 9.84 |
| Calder | ..... | ..... | 10.50 | 3.58 | 5.01 | 6.25 | 10.36 | 12.68 | 17.98 | 16.90 | 4.77 | 3.85 | ..... |
| Candle | ..... | ..... | ..... | 0.17 | ..... | 0.84 | 0.81 | 0.83 | 0.47 | 0.14 | ..... | ..... | ..... |
| Chatanika River | 0.68 | 0.09 | ..... | 0.42 | 1.11 | 1.22 | 2.01 | 2.01 | ..... | ..... | ..... | ..... | ..... |
| Circle City | 0.44 | 0.47 | ..... | ..... | 0.60 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Coal Harbor | ..... | ..... | ..... | ..... | 3.91 | 1.56 | 3.08 | ..... | 4.37 | 1.28 | ..... | ..... | ..... |
| Copper Center | 0.70 | ..... | ..... | ..... | 0.88 | 0.72 | 3.43 | 1.27 | 0.52 | 0.40 | 0.20 | 0.60 | ..... |
| Cordova | ..... | ..... | ..... | ..... | 6.09 | 14.63 | 4.95 | 8.86 | 19.17 | 9.04 | 1.69 | 19.22 | ..... |
| Duteh Harbor | 5.30 | 4.60 | 2.56 | 3.95 | 4.20 | 1.35 | 1.39 | 5.33 | 9.07 | 20.20 | 1.59 | 3.70 | 63.24 |
| *Eagle | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.23 | 0.26 | ..... |
| Fairbanks | 0.90 | 0.08 | 0.05 | 0.66 | 0.38 | 1.64 | 1.90 | ..... | 0.39 | 0.75 | 0.52 | ..... | ..... |
| Fort Egbert | 0.16 | 0.07 | 0.11 | 0.34 | 0.28 | 2.35 | 1.77 | 0.95 | 0.88 | 0.81 | 0.30 | ..... | ..... |
| Fort Gibbon | 0.05 | 0.10 | 0.37 | 0.39 | 1.51 | 0.77 | 1.49 | 2.27 | 0.90 | 0.49 | 0.46 | 0.80 | 9.60 |
| Fort Liscum | 2.29 | 2.57 | 5.80 | 6.94 | 6.28 | 6.14 | 5.78 | 6.65 | 6.40 | 2.83 | 0.59 | 18.02 | 70.29 |
| Fortmann Hatchery | ..... | 7.55 | 14.54 | 5.63 | 7.77 | 4.98 | 17.46 | 16.47 | 28.94 | 24.68 | 12.61 | 5.46 | ..... |
| Gulkana | ..... | ..... | ..... | 0.50 | ..... | ..... | ..... | 0.00 | ..... | 0.50 | 0.80 | ..... | ..... |
| Iron Creek | ..... | ..... | ..... | ..... | ..... | T. | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Juneau | 0.59 | 3.38 | 9.22 | ..... | 5.67 | ..... | 7.69 | 11.96 | 13.68 | ..... | ..... | ..... | ..... |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Alaska*—Continued. | | | | | | | | | | | | | |
| Ketchumstock | | 0.30 | | 0.20 | | 3.66 | 3.39 | | | | | | |
| Killisnoo | | | 1.13 | | 0.25 | 0.55 | 3.20 | | 12.10 | | | 1.10 | |
| Klukwan | 0.20 | 0.35 | 2.43 | 0.00 | 0.79 | 0.92 | 2.36 | 1.62 | 5.24 | 2.65 | 0.61 | 1.10 | 18.27 |
| Kodiak | 1.33 | 1.53 | 3.92 | 5.41 | 4.97 | 7.25 | 2.92 | 5.12 | 4.64 | 4.45 | 1.42 | 5.47 | 48.43 |
| *Nome | 0.37 | 0.13 | 0.21 | 0.45 | 0.15 | 0.88 | 0.82 | 1.66 | 0.96 | 1.45 | 1.16 | 1.22 | 9.46 |
| Northfork | | 0.22 | | | 0.20 | | | | 0.69 | | | | |
| Rampart | 0.09 | 0.10 | 0.37 | 0.51 | 1.04 | 0.85 | 2.01 | 1.41 | 0.36 | 1.14 | 0.35 | 1.99 | 10.22 |
| Seward | 0.52 | 0.47 | 3.72 | 3.03 | 4.47 | 4.39 | 0.72 | 3.71 | 3.66 | 8.92 | 0.37 | 12.80 | 46.78 |
| *Sitka | 1.49 | 2.43 | 12.97 | 4.67 | 4.47 | 3.29 | 5.14 | 6.62 | 16.98 | 10.46 | 3.83 | 5.45 | 77.80 |
| Skagway | | 0.15 | 2.15 | T. | 0.70 | 0.68 | 2.43 | | 6.41 | 3.63 | | | |
| Sunrise | 0.54 | 1.05 | 2.71 | 0.68 | 2.27 | 1.96 | 1.79 | 3.06 | 2.64 | 2.56 | 0.40 | 3.36 | 23.02 |
| *Tanana | | | | | | | | | 0.35 | 0.54 | 0.40 | 2.83 | |
| Tyonok | 0.58 | 0.53 | 0.99 | 2.38 | | | | | | | | | |
| *Valdez | | | | | | | | | | | | 14.90 | |
| Wrangell | 4.89 | | | | | | | | | | | | |
| *Arizona.* | | | | | | | | | | | | | |
| Allaires Ranch | 0.17 | 0.82 | 1.18 | 0.00 | T. | 0.96 | 2.91 | 6.41 | 0.82 | 0.00 | 0.19 | 0.46 | 13.92 |
| Arizona Canal Dam | | | | | | | | 1.12 | 0.90 | 0.00 | 0.52 | 0.92 | |
| Aztec | 0.00 | 0.00 | 0.75 | 0.00 | 0.00 | 0.04 | 0.11 | 1.95 | 0.94 | 0.00 | 0.79 | 0.93 | 5.51 |
| *Benson | 0.15 | 0.89 | 0.57 | 0.00 | 0.00 | 0.52 | 2.16 | 3.71 | 0.89 | 0.00 | 0.35 | 0.68 | 9.92 |
| Bisbee | 0.21 | 1.18 | 1.52 | 0.00 | 0.00 | 0.78 | 5.66 | 9.59 | 0.65 | T. | 0.23 | 1.50 | 21.32 |
| Bonita | 0.35 | 1.18 | 1.30 | 0.00 | 0.00 | 0.25 | 2.11 | 2.64 | 1.82 | 0.00 | 0.36 | 0.60 | 10.61 |
| Bowie | 0.35 | 1.30 | 0.54 | 0.00 | 0.00 | 0.98 | 3.21 | 4.66 | 0.40 | 0.00 | 0.60 | 0.78 | 13.02 |
| Buckeye | 0.38 | 0.57 | 0.71 | 0.00 | 0.00 | T. | 1.76 | 1.09 | 1.73 | 0.00 | 0.67 | 1.42 | 8.33 |
| Casagrande | 0.40 | 0.56 | 0.58 | 0.00 | 0.00 | 0.00 | 1.05 | | | | | 0.41 | |
| Casagrande Ruins | 0.35 | 0.70 | 1.23 | 0.00 | 0.00 | 0.01 | 1.14 | 1.93 | 0.96 | 0.00 | 0.52 | 0.42 | 7.26 |
| Cave Creek | 0.68 | 1.21 | 2.01 | 0.09 | 0.00 | 0.00 | 1.91 | 2.08 | 0.75 | 0.00 | 0.29 | 1.15 | 10.17 |
| Chin Lee | 0.14 | 0.25 | 0.68 | 0.20 | 0.01 | T. | 2.14 | 3.67 | 1.63 | 0.00 | 0.47 | 1.43 | 10.62 |
| Chlarson's Mill | 3.12 | 3.59 | 4.44 | 0.44 | 0.00 | 0.43 | 6.11 | 9.40 | 2.67 | 0.00 | 1.05 | 3.49 | 34.74 |
| Clifton | 0.50 | 1.26 | 1.60 | 0.00 | T. | T. | 1.77 | 2.37 | 0.66 | 0.00 | 0.02 | 0.71 | 8.89 |
| Cline | 1.63 | 2.54 | 1.43 | 0.02 | 0.00 | 0.00 | 0.81 | 3.61 | 1.10 | 0.00 | 0.64 | 2.51 | 14.29 |
| Cochise | 0.00 | | | | 0.00 | T. | 1.95 | 2.87 | 0.66 | 0.00 | 0.42 | 0.93 | |
| Columbia | 1.01 | 0.86 | 2.71 | T. | 0.03 | T. | 4.43 | 1.49 | 0.49 | 0.00 | 0.89 | 3.41 | 15.32 |
| Congress | 0.66 | 2.41 | 1.70 | T. | 0.02 | T. | 1.11 | 5.59 | 0.41 | 0.00 | 1.42 | 2.88 | 16.20 |
| Dos Cabezos | 0.63 | 1.46 | 1.62 | 0.00 | 0.00 | 1.44 | 4.61 | 2.31 | 1.83 | 0.00 | 0.26 | 0.95 | 15.11 |
| Douglas | 0.02 | 0.31 | 1.03 | 0.00 | 0.00 | 0.29 | 3.50 | 4.03 | 0.66 | 0.11 | 0.02 | 0.99 | 10.96 |
| Dudleyville | 1.70 | 1.88 | 1.75 | T. | T. | 0.08 | 1.42 | 4.25 | 1.14 | 0.00 | | | |
| *Flagstaff | 3.10 | 2.88 | 1.46 | 0.26 | 0.13 | 0.22 | 1.74 | 6.73 | 1.74 | T. | 1.51 | 2.98 | 22.75 |
| Flagstaff (1) | 2.91 | 2.77 | 1.39 | 0.26 | 0.34 | T. | 2.12 | 9.73 | 1.96 | T. | 1.53 | 2.33 | 25.34 |
| Flagstaff (2) | | | | | | 0.37 | 2.27 | 5.83 | 1.45 | 0.00 | 1.62 | 3.19 | |
| Florence | 0.37 | 0.64 | 1.70 | 0.00 | 0.00 | 0.00 | 1.28 | 3.61 | 0.37 | 0.00 | 0.50 | 0.40 | 8.87 |
| Fort Apache | 1.17 | 2.29 | 0.96 | 0.42 | 0.02 | T. | 1.73 | 2.98 | 3.06 | 0.00 | 0.84 | 1.03 | 14.50 |
| Fort Huachuca | 0.30 | 1.27 | 1.75 | 0.00 | 0.00 | 0.03 | 0.99 | 3.32 | 1.65 | 0.00 | 0.50 | 1.79 | 11.60 |
| Fort Mohave | | | 3.00 | 0.00 | T. | 0.00 | 0.27 | 4.42 | 0.53 | | 0.20 | | |
| Gilabend | 0.17 | 0.32 | 0.63 | 0.00 | 0.03 | T. | 0.37 | 2.87 | 0.12 | 0.00 | 0.42 | 0.62 | 5.55 |
| Globe | 1.41 | 2.20 | 2.30 | 0.03 | 0.00 | 0.30 | 2.24 | 2.01 | 1.58 | 0.00 | 0.88 | 1.21 | 14.16 |
| Grand Canyon (1) | 2.83 | 2.61 | 2.40 | 0.38 | | 0.02 | 3.41 | | 1.07 | 0.00 | 1.06 | 3.90 | |
| *Grand Canyon (2) | 3.21 | 2.29 | 0.80 | 0.25 | 0.08 | 0.08 | 2.53 | 4.76 | 0.59 | 0.00 | 0.85 | 4.55 | 19.99 |
| Greer | 0.90 | 3.05 | 3.49 | 0.72 | | | | 6.70 | 2.71 | 0.00 | 0.82 | 1.65 | |
| Holbrook | 0.44 | 0.17 | 0.35 | 0.67 | 0.00 | 0.02 | 3.99 | 2.70 | 0.31 | 0.00 | 0.15 | 1.27 | 10.07 |
| Intake | 1.22 | 1.80 | 1.90 | 0.00 | 0.00 | 0.00 | 0.98 | 1.35 | 1.35 | 0.00 | 0.80 | 0.48 | 9.88 |
| *Jerome | 1.84 | 1.90 | 2.08 | 0.15 | 0.07 | 0.20 | 3.72 | 6.04 | 1.26 | 0.00 | 1.21 | 1.88 | 20.35 |
| Kearns Canyon | 0.55 | 0.91 | 0.47 | 0.15 | T. | T. | 2.91 | 4.14 | 0.80 | 0.00 | 0.90 | 2.15 | 12.98 |
| Kingman | 0.87 | 1.69 | 2.04 | 0.00 | T. | | | 3.77 | 1.25 | 0.00 | 1.69 | 2.16 | |
| Maricopa | 0.28 | 0.62 | 0.41 | 0.02 | 0.00 | 0.00 | 0.74 | 1.70 | 0.50 | 0.00 | 0.34 | 0.75 | 5.36 |
| Mesa | 0.32 | 0.85 | 0.87 | 0.14 | 0.00 | T. | 2.01 | 3.90 | 0.72 | 0.00 | 0.34 | 0.87 | 10.02 |
| Mohawk Summit | 0.00 | 0.00 | 0.14 | 0.00 | 0.00 | T. | 0.07 | 3.02 | 0.14 | 0.00 | 0.14 | 1.03 | 4.54 |
| Natural Bridge | 3.41 | 2.95 | 3.18 | 0.38 | T. | 0.00 | 1.52 | 7.38 | 1.62 | 0.00 | 1.68 | 2.76 | 24.88 |
| Nogales | | | | | | 0.88 | 5.65 | 5.54 | 2.14 | 0.00 | 0.88 | 0.91 | |
| Oracle | 1.49 | 2.41 | 1.49 | T. | 0.00 | 0.02 | 4.68 | 3.36 | 2.47 | 0.00 | 0.66 | | |
| Paradise | 0.70 | 1.30 | 1.92 | 0.00 | T. | 0.40 | 3.48 | 1.94 | 0.91 | T. | 0.35 | 1.23 | 12.23 |
| Parker | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.19 | 4.64 | 1.01 | | | 1.07 | |
| Payson | | | | 0.33 | 0.00 | 0.01 | 2.09 | 5.37 | 0.81 | 0.00 | 1.45 | 3.12 | |
| *Phoenix | 0.09 | 0.68 | 0.67 | 0.07 | T. | T. | 1.00 | 1.94 | 0.42 | 0.00 | 0.28 | 1.02 | 6.17 |
| Phoenix (1) | 0.08 | 0.77 | 0.74 | 0.08 | 0.03 | T. | 0.55 | 2.52 | 0.56 | 0.00 | 0.45 | 1.09 | 6.87 |
| Phoenix (2) | | | | | T. | T. | 2.07 | 3.33 | 0.37 | 0.00 | 0.38 | 1.14 | |
| Pinal Ranch | 3.44 | 2.94 | 3.67 | 0.15 | 0.00 | 0.62 | 1.05 | 2.94 | 2.40 | 0.00 | 2.38 | 2.05 | 21.64 |
| Pinto | 0.87 | 0.76 | 0.74 | 0.22 | 0.03 | 0.00 | 1.67 | 1.55 | 0.74 | 0.00 | 0.23 | 1.45 | 8.26 |
| Prescott | 2.11 | 2.93 | 1.71 | 0.13 | T. | 0.23 | 5.25 | 4.01 | 2.20 | 0.00 | 0.96 | 2.28 | 21.81 |
| Quartzsite | 0.26 | 0.53 | 0.62 | 0.00 | T. | T. | 0.54 | 5.53 | 0.49 | 0.00 | 0.41 | 1.13 | 9.51 |
| Redrock | 1.06 | 1.00 | 0.93 | T. | T. | T. | 1.43 | 1.48 | 2.20 | T. | 1.29 | 0.29 | 9.68 |
| Roosevelt | 1.86 | 2.01 | 2.40 | 0.01 | T. | 0.03 | 0.62 | 1.79 | 1.30 | T. | 0.92 | 1.76 | 12.70 |
| Sacaton | 0.40 | 0.41 | 1.10 | 0.00 | 0.00 | 0.00 | 1.59 | 3.95 | 0.42 | 0.00 | 0.40 | 0.62 | 8.89 |
| St. Johns | | | | 0.51 | 0.10 | 0.07 | 3.21 | 3.64 | 2.05 | 0.00 | 0.48 | 2.19 | |
| St. Michaels | 0.60 | 0.68 | 0.61 | 0.31 | 0.68 | T. | 2.46 | 5.75 | 1.87 | 0.09 | 1.00 | 1.66 | 15.11 |
| Salome | 0.46 | 0.45 | 0.88 | 0.00 | T. | 0.00 | 0.96 | 9.27 | 0.28 | 0.00 | 1.31 | 2.63 | 16.24 |
| *San Carlos | 1.55 | 1.64 | 2.23 | T. | 0.00 | 0.00 | 1.23 | 1.95 | 1.04 | 0.00 | 0.18 | 0.88 | 10.70 |
| San Simon | 0.20 | 0.48 | 0.94 | 0.00 | 0.00 | 0.06 | 2.81 | 2.28 | 0.42 | 0.00 | 0.46 | 0.47 | 8.12 |
| *Seligman | 0.68 | 1.34 | 1.97 | 0.03 | 0.01 | 0.10 | 3.27 | 4.41 | 0.09 | 0.00 | | | |
| Sentinel | 0.02 | 0.59 | 0.73 | 0.00 | 0.00 | T. | 0.05 | 1.82 | 0.10 | 0.00 | 0.25 | 0.51 | 4.07 |
| Showlow | 1.62 | 2.02 | 2.51 | 0.60 | T. | | 2.00 | 3.79 | 0.25 | 0.00 | 0.43 | | |
| Silverbell | 0.71 | 0.90 | 0.18 | T. | 0.00 | 0.07 | 1.83 | 4.79 | 2.71 | 0.00 | 1.33 | 0.23 | 12.75 |
| Supai | 0.27 | 0.73 | 0.88 | 0.65 | 0.14 | 0.05 | 2.53 | 7.65 | 0.44 | 0.10 | 1.90 | | |
| *Tempe | 0.17 | 0.34 | 1.12 | 0.08 | 0.00 | T. | 1.06 | 2.21 | 0.96 | 0.00 | 0.26 | 0.81 | 7.01 |
| Thatcher | 0.55 | 1.00 | 1.27 | 0.00 | 0.00 | T. | 3.02 | 4.62 | 1.22 | 0.00 | 1.85 | 0.45 | 13.98 |
| Tombstone | 0.18 | 0.81 | 2.05 | 0.00 | 0.00 | 0.07 | 3.03 | 5.83 | 1.81 | 0.05 | 0.15 | 0.93 | 14.91 |
| Tuba | 0.62 | 0.72 | 0.37 | 0.41 | 0.20 | T. | 0.54 | 1.66 | 0.56 | 0.10 | 0.30 | 1.54 | 7.02 |
| Tucson (1) | 0.51 | 0.50 | 0.93 | 0.00 | 0.00 | 0.54 | 4.04 | 1.36 | 1.25 | 0.00 | 0.87 | 0.81 | 10.21 |
| Tucson (2) | 0.56 | 0.52 | 0.35 | 0.00 | 0.00 | 0.56 | 3.34 | 3.70 | 0.85 | 0.00 | 0.99 | 0.71 | 11.58 |
| Upper San Pedro | | | | | | | | | | | | | |
| Vail | 0.25 | 1.01 | 0.48 | 0.00 | 0.00 | 0.56 | 2.07 | 2.62 | 1.95 | 0.00 | 0.07 | 0.32 | 9.33 |
| Walnut Grove | 1.61 | 2.20 | 1.72 | T. | T. | 0.07 | 3.60 | 5.16 | 1.15 | | 1.02 | 3.08 | |
| Wickenburg | 0.06 | 0.47 | 0.93 | 0.04 | 0.00 | 0.00 | 0.76 | 2.36 | 0.51 | 0.00 | 0.47 | 0.83 | 6.43 |
| Willcox | 0.31 | 0.66 | 2.74 | 0.00 | 0.00 | 0.50 | 3.26 | 4.16 | 1.00 | 0.00 | 0.22 | 0.50 | 13.35 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Arizona*—Continued. | | | | | | | | | | | | | |
| Williams | 2.81 | 1.57 | 1.54 | 0.34 | 0.48 | 0.15 | 1.68 | 6.46 | 0.78 | 0.03 | 0.81 | 3.37 | 20.02 |
| Winslow | 1.48 | 0.85 | 0.49 | 0.13 | 0.02 | T. | 1.75 | 2.79 | 0.22 | 0.00 | 0.75 | 1.74 | 10.22 |
| Yarnell | 1.55 | 3.02 | 2.08 | T. | 0.05 | 0.00 | 2.02 | 5.40 | 1.99 | 0.00 | 1.50 | 2.96 | 20.57 |
| *Yuma | 0.05 | 0.08 | 0.64 | 0.00 | 0.00 | 0.00 | 0.01 | 6.25 | 0.96 | 0.00 | 0.18 | 0.46 | 8.63 |
| Yuma (1) | 0.07 | 0.06 | 0.26 | 0.00 | 0.00 | 0.00 | 0.02 | 6.37 | 0.63 | 0.00 | 0.22 | 0.10 | 7.73 |
| *Arkansas.* | | | | | | | | | | | | | |
| Alicia | 2.30 | 8.80 | 2.44 | 4.50 | 5.65 | 4.90 | 5.95 | 0.10 | 3.50 | 0.00 | 5.30 | 3.10 | 46.54 |
| Amity | 1.66 | 4.93 | 2.90 | 3.74 | 5.32 | 8.08 | 1.86 | 4.72 | 0.99 | 2.81 | 3.19 | 8.18 | 48.38 |
| *Arkadelphia (near) | 2.60 | 5.64 | 4.66 | 4.27 | 5.90 | 3.31 | 1.51 | 1.63 | 1.19 | 2.16 | 3.90 | 7.89 | 44.66 |
| *Arkansas City | 1.70 | 6.70 | 3.98 | 7.30 | 10.64 | 2.40 | 1.86 | 0.94 | 5.36 | 1.60 | 2.46 | 7.88 | 52.82 |
| *Batesville (1) | 2.81 | 4.45 | 3.13 | 3.96 | 5.78 | 2.61 | 1.68 | ..... | ..... | ..... | ..... | ..... | ..... |
| Batesville (2) | 2.73 | 5.17 | 3.13 | 3.98 | 5.98 | 2.13 | 2.67 | 1.07 | 3.48 | 0.62 | 3.55 | 4.19 | 38.70 |
| Bee Branch | 2 35 | 5.00 | 3.15 | 3.83 | ..... | ..... | 0.85 | 0.75 | 3.55 | 1.10 | 3.95 | 5.10 | ..... |
| Benton | 0.62 | 6.24 | 4.72 | 4.05 | ..... | ..... | ..... | ..... | 2.73 | 3.13 | 2.77 | 5.28 | ..... |
| *Bentonville | 1.57 | 1.99 | 3.13 | 3.49 | 7.96 | 4.05 | 2.22 | 0.47 | 1.39 | 3.12 | 2.43 | 2.76 | 34.58 |
| Bergman | 2.51 | 3.60 | 4.73 | 5.07 | 5.31 | 0.42 | 2.75 | 0.11 | 0.87 | 2.58 | 4.05 | 2.18 | 40.18 |
| *Black Rock | 3.13 | 5.94 | 3.06 | 5.04 | 4.03 | 2.83 | 5.04 | 0.49 | 4.44 | 0.54 | 5.63 | 3.64 | 43.81 |
| *Brinkley | 1.17 | 8.25 | ..... | ..... | 8.80 | 3.53 | 1.26 | 0.91 | 3.20 | 1.28 | 3.29 | 6.08 | ..... |
| *Calico Rock | 1.82 | 4.36 | 3.30 | 3.80 | 5.80 | 3.94 | 2.16 | 1.68 | 3.14 | 0.74 | 5.12 | 2.88 | 38.74 |
| *Camden | 0.92 | 6.24 | 2.12 | 3.06 | 7.65 | 3.76 | 1.28 | 3.18 | 3.30 | 2.12 | 4.14 | 8.60 | 46.37 |
| Centerpoint | 3.25 | 3.98 | 2.77 | 1.66 | 4.45 | 5.42 | 2.37 | 0.22 | 4.50 | 4.50 | 2.37 | 7.67 | 43.16 |
| *Clarendon | 1.41 | 6.85 | 4.04 | 8.62 | 8.94 | 3.58 | 1.81 | 2.05 | 4.34 | 0.54 | 2.24 | 0.03 | 51.05 |
| Conway | 2.47 | 4.79 | 3.80 | 4.53 | 7.07 | 2.64 | 1.93 | 0.42 | 2.59 | 1.91 | 3.96 | 6.58 | 42.69 |
| Corning | 3.46 | 6.67 | 4.14 | 4.05 | 5.35 | 7.25 | 6.10 | 0.27 | 3.36 | 1.28 | 5.43 | 4.09 | 51.45 |
| *Dardanelle | 3.26 | 5.57 | 4.20 | 4.08 | 6.90 | 2.04 | 1.14 | 1.22 | 1.46 | 3.38 | 5.58 | 4.44 | 43.27 |
| Dennard | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.50 | 4.93 | 4.21 | ..... |
| Dodd City | 2.49 | 4.20 | 4.07 | 5.28 | 6.05 | 5.18 | 2.02 | 2.95 | 1.81 | 2.92 | 4.49 | 3.74 | 45.20 |
| Dutton | 1.84 | 4.88 | 1.65 | 4.34 | 6.28 | 5.81 | 2.90 | 0.28 | 0.45 | 4.00 | 2.16 | 3.32 | 37.91 |
| Earl | ..... | 6.20 | 3.80 | 5.56 | 7.12 | 3.17 | ..... | 0.00 | 6.72 | 0.94 | 5.94 | 4.23 | ..... |
| *Eldorado | 0.99 | 4.84 | 5.36 | 4.24 | 7.26 | 5.36 | 2.09 | 2.85 | 4.21 | 1.59 | 2.87 | 8.76 | 50.42 |
| England | 0.75 | 5.21 | 4.51 | 5.97 | 7.12 | 4.68 | 1.89 | 1.13 | 3.50 | 0.32 | 5.23 | 5.16 | 45.47 |
| *Eureka Springs | 1.58 | 3.33 | 3.22 | 4.98 | 6.57 | 6.00 | 1.44 | 0.35 | 0.36 | 3.33 | 5.18 | 2.40 | 38.74 |
| Fayetteville | 2.00 | 2.12 | 2.18 | 3.46 | 8.90 | 3.89 | 1.12 | 0.18 | 0.59 | 3.63 | 2.04 | 3.91 | 34.02 |
| *Fort Smith | 0.62 | 2.84 | 2.03 | 2.53 | 7.23 | 3.02 | 2.74 | 0.82 | 0.38 | 3.83 | 3.15 | 2.18 | 31.37 |
| *Fulton | 2.06 | 8.00 | 4.54 | 3.56 | 7.92 | 4.82 | 1.88 | 2.34 | 1.04 | 1.60 | 3.64 | 6.60 | 47.94 |
| Hardy | 3.40 | 4.40 | 5.07 | 4.59 | 5.30 | 5.93 | 6.94 | 0.56 | 4.51 | 0.70 | 5.41 | 3.78 | 50.59 |
| Helena | 2.66 | 7.58 | 2.58 | 5.22 | 7.62 | 4.40 | 0.65 | ..... | ..... | ..... | ..... | ..... | ..... |
| *Helena | 2.46 | 8.96 | 3.12 | 4.50 | 7.84 | 4.22 | 0.78 | 0.34 | 3.28 | 0.62 | 5.06 | 7.36 | 48.54 |
| Hot Springs | 1.44 | 5.57 | 3.37 | 4.32 | 4.12 | 4.46 | 3.59 | 2.05 | 4.23 | 2.90 | 3.14 | 7.19 | 46.38 |
| Huttig | 0.62 | 7.99 | 6.07 | 8.79 | 9.73 | 2.67 | 3.38 | 2.34 | 3.65 | 1.68 | 3.21 | 7.08 | 57.21 |
| Jonesboro | 0.37 | 8.64 | 3.88 | 4.29 | 7.35 | 3.90 | 2.70 | 0.22 | 5.79 | 0.31 | 4.20 | 5.82 | 47.47 |
| Junction | 0.47 | ..... | 5.23 | ..... | 7.13 | 3.72 | 2.81 | 2.55 | ..... | 1.40 | 1.62 | 4.28 | ..... |
| La Crosse | 2.73 | 4.92 | 3.96 | 3.35 | 4.62 | 5.10 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Lake Farm | 1.10 | 5.20 | 2.50 | 4.12 | 7.85 | 6.63 | 2.81 | 2.22 | 3.67 | 1.10 | 5.04 | ..... | ..... |
| Lewisville | 0.82 | 5.88 | 5.46 | 3.71 | 6.08 | 4.13 | 1.89 | 1.60 | 1.51 | 3.17 | 3.00 | 9.35 | 46.60 |
| *Little Rock | 0.71 | 5.18 | 3.70 | 4.23 | 4.51 | 2.81 | 1.23 | 1.74 | 3.17 | 0.84 | 3.00 | 5.31 | 36.43 |
| Lutherville | 2.15 | 5.21 | 3.84 | 4.43 | 6.41 | 7.15 | 1.77 | 0.48 | 0.67 | 4.68 | 3.83 | 4.28 | 44.90 |
| McNeil | 0.71 | ..... | 4.70 | 3.49 | 7.82 | 3.67 | 3.47 | 1.54 | ..... | 2.81 | 3.14 | ..... | ..... |
| *Malvern | 1.90 | 6.00 | 3.55 | 6.50 | 5.03 | 2.56 | 3.67 | 1.07 | 2.53 | 1.63 | 3.42 | 7.52 | 45.38 |
| Mammoth Spring | 3.06 | 4.48 | 4.46 | 7.04 | 5.28 | 8.68 | 6.58 | 0.84 | 4.54 | 1.16 | 5.89 | 3.61 | 55.62 |
| *Marked Tree | 1.33 | 6.50 | 3.04 | 6.65 | 6.70 | 2.73 | 2.67 | T. | 3.89 | T. | 3.73 | 2.06 | 39.30 |
| Marvell | 1.57 | 7.22 | 2.63 | 5.81 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Mena | 1.50 | 4.96 | 4.58 | 4.28 | 4.71 | 7.97 | 2.01 | 1.20 | 0.86 | 3.48 | 3.29 | 4.77 | 43.61 |
| Mossville | 3.03 | 2.37 | 3.14 | 5.02 | 6.85 | 2.68 | 1.23 | T. | 1.76 | 4.31 | 4.78 | 3.61 | 38.78 |
| Mount Nebo | 2.82 | 5.42 | 5.72 | 4.17 | 4.77 | ..... | ..... | ..... | ..... | 4.84 | 3.54 | 3.25 | ..... |
| *Newport | 1.39 | 6.44 | 2.76 | 4.29 | 6.74 | 2.25 | 2.25 | 0.08 | 8.05 | 0.83 | 7.98 | 4.69 | 47.75 |
| Newport | ..... | ..... | ..... | 4.38 | 6.37 | 1.26 | 2.26 | ..... | ..... | ..... | ..... | ..... | ..... |
| Ozark | 1.08 | 3.83 | 2.46 | 4.27 | 8.41 | 2.93 | 3.53 | 1.49 | 0.50 | 4.12 | 2.25 | 2.83 | 37.70 |
| *Pine Bluff | 1.67 | 8.15 | 3.90 | 6.61 | 7.40 | 2.73 | 1.69 | 2.94 | 3.50 | 0.90 | 3.88 | 7.00 | 50.37 |
| Pocahontas | 3.62 | 5.90 | 3.23 | 4.71 | 6.62 | 3.36 | 6.17 | 0.42 | 4.26 | 0.51 | 4.91 | 4.07 | 47.78 |
| Pond | 1.44 | 1.57 | 2.41 | 2.84 | 6.33 | 4.66 | 2.16 | 0.32 | 1.22 | 4.20 | 2.92 | 3.61 | 33.68 |
| *Portland | ..... | ..... | ..... | 5.16 | 8.78 | 2.84 | 2.52 | 1.11 | 3.20 | 1.30 | 2.65 | 5.88 | ..... |
| *Prescott | 1.86 | 5.42 | 5.37 | 3.48 | 7.75 | 3.78 | 3.37 | 2.17 | 1.54 | 3.56 | 2.38 | 7.90 | 48.58 |
| Princeton | 0.52 | 6.06 | 5.32 | 2.70 | 8.40 | 3.80 | 1.93 | 4.09 | ..... | ..... | ..... | ..... | ..... |
| Rogers | 0.91 | 2.01 | 3.06 | 3.51 | 6.87 | 8.66 | 1.68 | 0.18 | 0.39 | 3.25 | 3.19 | 1.93 | 35.64 |
| *Russellville | 2.73 | 4.38 | 3.01 | 3.50 | 6.33 | 1.96 | 1.45 | ..... | ..... | ..... | ..... | ..... | ..... |
| Spielerville | 1.63 | 3.36 | 3.54 | 2.59 | 5.49 | 4.51 | 2.29 | 0.79 | 1.67 | 3.57 | 2.09 | 2.45 | 33.98 |
| *Springbank | 0.36 | 5.15 | 3.03 | 3.37 | 6.72 | 1.45 | 1.96 | 2.03 | 1.75 | 2.42 | 1.38 | 7.90 | 37.52 |
| Stuttgart | 1.42 | 7.46 | 3.14 | 6.11 | 10.00 | 3.44 | 2.19 | 0.56 | 5.12 | 0.66 | 3.44 | 6.24 | 49.78 |
| *Texarkana | 0.93 | 5.14 | 5.14 | 3.18 | 6.53 | 3.65 | 2.69 | 4.86 | 0.81 | 3.75 | 2.70 | 7.50 | 46.88 |
| *Warren | 1.14 | 6.49 | 6.28 | 4.89 | 7.20 | 4.97 | 3.25 | 1.12 | 2.90 | 2.08 | 4.02 | 8.63 | 52.97 |
| *Whitecliffs | 1.23 | 4.03 | 3.15 | 2.53 | 4.86 | 1.78 | 2.80 | 0.54 | 0.48 | 2.70 | 3.65 | 7.36 | 35.11 |
| Wiggs | 1.35 | 5.05 | 3.37 | 4.70 | 7.43 | 4.40 | 1.52 | 1.03 | 2.82 | 3.51 | 2.98 | 7.10 | 45.26 |
| *Wynne | 1.16 | 5.92 | 3.96 | 5.68 | 8.36 | 2.73 | 1.04 | 2.51 | 4.71 | 0.60 | 4.93 | 5.35 | 46.95 |
| *California.* | | | | | | | | | | | | | |
| Aguanga | 4.44 | 3.28 | 1.95 | 0.00 | 0.00 | 0.00 | 0.15 | 1.61 | 0.43 | 0.00 | 1.90 | 4.16 | 17.92 |
| Alturas | 4.47 | 1.58 | 0.53 | 0.66 | 0.73 | 0.49 | 0.10 | 0.26 | 0.67 | 1.40 | 1.94 | 1.78 | 14.61 |
| Anderson (near) | ..... | ..... | ..... | T. | 6.58 | 0.03 | 0.01 | 0.00 | 0.75 | 1.48 | 6.95 | 5.43 | ..... |
| Angels Camp | 23.87 | 9.84 | 5.55 | 0.00 | 0.00 | 0.52 | 0.00 | 0.00 | T. | 1.27 | 3.82 | 8.63 | 53.50 |
| Angiola | 3.76 | ..... | 1.70 | T. | 0.00 | T. | 0.00 | 0.00 | 0.00 | 0.20 | 1.12 | 3.48 | ..... |
| Antioch | 5.66 | 4.46 | 1.53 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.05 | 0.07 | 1.20 | 4.87 | 17.85 |
| Aptos | 20.33 | 8.97 | 4.26 | 0.00 | 0.00 | 0.17 | 0.00 | 0.00 | 0.85 | 1.32 | 1.82 | 9.00 | 46.72 |
| Arrowhead Springs | ..... | ..... | ..... | 0.76 | 0.26 | 0.13 | T. | 0.48 | 0.13 | 0.26 | 3.99 | 8.66 | ..... |
| Auburn | 23.08 | 10.24 | 2.80 | 0.11 | 0.02 | 0.30 | 0.00 | 0.00 | 0.30 | 2.55 | 6.54 | 5.82 | 51.76 |
| Azusa | 8.13 | 6.54 | 4.70 | 0.07 | 0.00 | 0.21 | 0.06 | 0.00 | 0.06 | 0.32 | 2.08 | 11.70 | 33.87 |
| Bagdad | 0.00 | T. | T. | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 |
| Bakersfield | 2.12 | 2.05 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 1.36 | 9.29 |
| Barstow | 1.29 | 0.94 | 0.77 | 0.00 | T. | 0.04 | T. | 0.50 | 0.10 | 0.10 | 0.31 | 1.83 | 5.88 |
| Bear River | 34.68 | 15.96 | 6.91 | 0.52 | 0.43 | 0.50 | 0.00 | 0.00 | 0.45 | ..... | ..... | ..... | ..... |
| Bear Valley No. 1 | 49.02 | 18.12 | 7.61 | 0.72 | 2.27 | 0.96 | 0.00 | 0.00 | 0.72 | 6.14 | 17.98 | 15.85 | 119.39 |
| Bear Valley No. 2 | 4.85 | 8.01 | 3.62 | 0.13 | 0.00 | 0.00 | 0.00 | 1.30 | 0.00 | 0.54 | 4.36 | 3.30 | 26.11 |
| Beckwith | 16.51 | 5.05 | 1.50 | 0.32 | 0.67 | 0.38 | 0.02 | 0.03 | 1.14 | 2.14 | 3.22 | 6.55 | 37.53 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *California*—Continued. | | | | | | | | | | | | | |
| Ben Lomond | 42.57 | 18.94 | 7.64 | 0.00 | 0.00 | 0.15 | 0.00 | 0.00 | 1.55 | 2.30 | 2.97 | 14.15 | 90.27 |
| Berkeley | 13.11 | 9.26 | 3.64 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.78 | 1.34 | 3.43 | 7.24 | 38.82 |
| *Big Bar | 40.58 | 17.49 | 8.48 | 0.10 | 0.37 | 0.37 | ..... | 0.00 | ..... | ..... | ..... | ..... | ..... |
| Biggs | 12.97 | 6.82 | 2.30 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.76 | 1.52 | 2.23 | 3.83 | 30.63 |
| Bishop | 3.77 | 1.47 | 0.20 | 0.42 | 0.00 | T. | 0.00 | 0.00 | T. | 0.27 | 0.57 | 6.58 | 13.28 |
| Blocksburg | 34.78 | 18.75 | 5.45 | 0.26 | 0.85 | 0.20 | 0.43 | T. | 1.51 | 5.98 | 16.80 | 9.63 | 94.64 |
| Blue Canon | 48.35 | 15.15 | 6.10 | 1.22 | 1.60 | 0.50 | 0.00 | 0.00 | 0.25 | 4.60 | 16.15 | 16.80 | 110.72 |
| Blythe | ..... | 0.26 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 | 1.63 | 0.63 | 0.00 | 0.33 | 1.07 | ..... |
| Boca | 13.95 | 6.20 | 1.45 | 0.00 | 0.20 | 0.10 | 0.00 | 0.00 | 0.00 | 0.20 | 5.78 | 9.70 | 37.58 |
| Boulder Creek | 39.42 | 15.29 | 8.48 | 0.00 | 0.00 | 0.17 | 0.00 | 0.03 | 1.34 | 1.56 | 3.50 | 12.43 | 82.22 |
| Bowman's Dam | 47.53 | 17.68 | 7.25 | 0.92 | 2.25 | 0.95 | 0.00 | 0.00 | 0.75 | 6.59 | 14.31 | 15.62 | 113.85 |
| Branscomb | 55.79 | 23.46 | 7.92 | 0.03 | 0.20 | 0.12 | 0.10 | 0.00 | 1.62 | 7.44 | 25.55 | 8.11 | 130.14 |
| *Brawley | 0.02 | 0.23 | 0.56 | 0.00 | 0.00 | 0.00 | 0.34 | 1.43 | 0.31 | 0.00 | 0.21 | 0.59 | 3.69 |
| Brush Creek | 46.39 | 17.42 | 8.31 | 0.15 | 0.90 | 0.38 | T. | 0.00 | 1.73 | 4.51 | 11.03 | 13.83 | 104.65 |
| Butte Valley | 34.51 | 9.70 | 3.58 | 0.14 | 0.90 | 0.66 | 0.00 | T. | 1.15 | 2.97 | 6.18 | 5.08 | 64.87 |
| Calexico | 0.00 | 0.00 | T. | 0.00 | 0.00 | 0.00 | 0.00 | 3.64 | 0.00 | 0.00 | T. | 0.30 | 3.94 |
| Caliente | 3.97 | 4.68 | 3.61 | T. | 0.00 | ..... | ..... | ..... | 0.00 | 0.41 | 2.14 | 0.75 | ..... |
| Calistoga | 29.23 | 12.04 | 4.33 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 1.22 | 1.93 | 3.51 | 9.22 | 61.56 |
| Campbell | 8.31 | 5.00 | 2.48 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.75 | T. | 0.95 | 5.08 | 22.59 |
| Campo | 8.41 | 5.43 | 4.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.44 | 5.82 | 27.15 |
| Camptonville (near) | 55.43 | 24.05 | 8.68 | 0.47 | 1.10 | 0.53 | 0.00 | 0.00 | 1.58 | 5.56 | 18.84 | 20.14 | 136.38 |
| Cedarville | 7.28 | 2.26 | 1.25 | 0.83 | 0.85 | 0.65 | 0.09 | 0.61 | 0.97 | 0.94 | 3.87 | 2.09 | 21.69 |
| Chico (1) | 14.38 | 8.29 | 2.74 | 0.00 | 0.23 | 0.10 | 0.00 | 0.00 | 0.86 | 1.34 | 2.52 | 6.11 | 36.57 |
| Chico (2) | 16.62 | 10.06 | 3.25 | 0.00 | 0.09 | 0.14 | 0.00 | 0.00 | 0.86 | 1.34 | 3.02 | 6.11 | 41.40 |
| Chino | 7.50 | 5.18 | 3.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.81 | 0.00 | 0.25 | 1.78 | 7.33 | 26.14 |
| *Cisco | 29.35 | 10.05 | 6.20 | 0.20 | 0.30 | 1.50 | 0.00 | 0.00 | 1.05 | 2.10 | 15.15 | 14.65 | 80.55 |
| Claremont | 8.51 | 5.33 | 3.63 | 0.13 | 0.15 | 0.10 | 0.11 | 0.21 | 0.05 | 0.29 | 2.17 | 8.17 | 28.85 |
| Clear Lake | 4.76 | 2.05 | 1.05 | T. | 1.20 | 0.50 | 0.02 | 0.01 | 0.05 | ..... | ..... | ..... | ..... |
| Cloverdale | 34.20 | 16.74 | 4.98 | 0.00 | T. | 0.03 | 0.00 | 0.00 | 2.01 | 2.10 | 4.51 | 6.52 | 71.09 |
| Colfax | 29.94 | 13.49 | 3.40 | 0.00 | 1.10 | 0.45 | 0.00 | 0.00 | 0.60 | 3.22 | 9.28 | 11.09 | 72.57 |
| *Colgate | 29.10 | 11.61 | 4.42 | 0.35 | 1.10 | 0.48 | 0.00 | 0.00 | 0.67 | 2.80 | 9.12 | 11.92 | 71.57 |
| *Colusa | 6.89 | 4.92 | 1.10 | 0.00 | 0.07 | 0.20 | 0.00 | 0.00 | 0.63 | 0.61 | 0.84 | 3.05 | 18.31 |
| Corning | 11.02 | 6.87 | 2.54 | 0.00 | 0.50 | 0.10 | 0.00 | 0.00 | 0.60 | 0.63 | 2.71 | 3.01 | 27.98 |
| Corona | 5.35 | 3.82 | 1.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.15 | 1.48 | 7.38 | 20.11 |
| Crockers | 29.67 | 13.70 | 7.19 | 0.06 | 0.00 | 0.87 | 0.00 | 0.00 | T. | 3.91 | 7.70 | 16.91 | 80.01 |
| Cuyamaca (1) | 15.16 | 12.50 | 8.85 | 0.21 | 0.00 | 0.00 | 0.16 | 1.30 | 0.30 | 0.06 | 6.07 | 11.76 | 56.37 |
| Cuyamaca (2) | 12.69 | 10.39 | 5.86 | 0.16 | 0.00 | 0.00 | 0.17 | 1.33 | 0.30 | 0.06 | 6.07 | 11.76 | 48.79 |
| Daunt | 24.53 | 15.02 | 9.21 | 0.83 | T. | 0.11 | 0.00 | 0.17 | 0.00 | 1.43 | 6.39 | 14.47 | 72.16 |
| Davisville | 9.81 | 7.20 | 1.94 | 0.00 | T. | T. | 0.00 | 0.00 | 0.55 | 0.81 | 0.78 | 4.76 | 25.85 |
| Deer Creek | 56.32 | 17.12 | 7.12 | 0.32 | 1.33 | 0.55 | 0.00 | 0.00 | 0.86 | 6.13 | 16.68 | 16.88 | 123.31 |
| *Delta | 53.28 | 28.78 | 9.97 | T. | 0.20 | 0.03 | 0.25 | T. | 2.09 | 3.45 | 8.37 | 8.43 | 114.85 |
| Denair | 4.42 | 1.72 | 1.12 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | ..... | 0.53 | 1.99 | ..... |
| Descanso | 11.03 | 6.53 | 4.97 | 0.06 | 0.00 | 0.00 | 0.00 | 2.62 | 0.00 | 0.00 | 5.12 | 7.79 | 38.12 |
| Dinuba | 6.07 | 4.12 | 2.35 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.46 | 2.89 | 4.56 | 20.67 |
| Dobbins | 25.56 | 10.86 | 4.15 | 0.31 | 0.78 | 0.48 | 0.00 | 0.00 | 0.67 | 2.77 | 9.61 | 12.88 | 68.07 |
| *Downieville | 42.81 | 15.42 | 6.07 | 0.67 | 1.82 | 0.66 | 0.00 | T. | 0.70 | 4.23 | 14.12 | 15.14 | 101.64 |
| Dudleys | 22.00 | 10.12 | 3.99 | 0.05 | T. | 0.48 | 0.00 | 0.00 | 0.12 | 2.08 | 6.13 | 10.17 | 55.14 |
| Dunnigan | 10.23 | 7.38 | 1.62 | 0.00 | 0.00 | 0.18 | 0.00 | 0.00 | 0.45 | 1.10 | 0.32 | 7.04 | 28.32 |
| *Dunsmuir | 32.60 | 20.87 | 5.29 | 0.03 | 0.80 | 0.51 | 0.12 | 0.00 | 2.23 | 3.55 | 5.12 | 8.28 | 79.40 |
| Durham | 13.47 | 8.25 | 2.27 | 0.00 | 0.70 | 0.10 | 0.00 | T. | 0.90 | 1.42 | 2.30 | 7.08 | 36.49 |
| Dyerville | 32.53 | 15.44 | 5.28 | 0.03 | 0.34 | 0.10 | 0.19 | 0.00 | 0.77 | 5.52 | 9.11 | 10.21 | 79.52 |
| Edgewood | 7.07 | 12.21 | 1.13 | 0.14 | 0.39 | 0.36 | 0.76 | 0.03 | 0.45 | 0.85 | 1.91 | 2.06 | 27.30 |
| Edison | 4.08 | 2.99 | 2.93 | 0.00 | 0.00 | T. | 0.00 | 0.05 | 0.00 | 0.67 | 3.42 | 2.41 | 16.55 |
| El Cajon | 5.31 | 2.83 | 3.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.00 | 0.00 | 2.87 | 4.75 | 19.28 |
| *Electra | 19.11 | 9.34 | 5.36 | 0.00 | 0.00 | T. | 0.00 | 0.00 | 0.00 | 1.91 | 7.73 | 8.09 | 51.54 |
| Elsinore | 6.51 | 3.57 | 2.29 | 0.00 | 0.00 | 0.04 | 0.00 | 0.55 | 0.00 | 0.09 | 1.43 | 6.65 | 21.13 |
| Emigrant Gap | 33.87 | 11.85 | 7.01 | 1.20 | 1.84 | 1.00 | 0.00 | 0.00 | 0.56 | 4.94 | 11.53 | 13.35 | 87.15 |
| Escondido | 7.23 | 4.38 | 2.76 | 0.00 | 0.13 | 0.00 | 0.00 | 0.22 | 0.05 | 0.00 | 3.93 | 7.71 | 26.41 |
| *Eureka | 14.41 | 11.54 | 2.72 | 0.24 | 0.76 | 0.14 | 0.55 | T. | 0.61 | 3.78 | 12.60 | 4.29 | 51.64 |
| Fairmont | ..... | 5.99 | 5.96 | 0.00 | 0.00 | T. | T. | 0.12 | 0.24 | 0.65 | 1.37 | 5.46 | ..... |
| Farmington | 8.92 | 4.51 | 1.63 | 0.00 | T. | 0.03 | 0.00 | 0.00 | T. | 0.78 | 1.93 | 4.32 | 22.12 |
| Felton | 31.39 | 15.33 | 6.56 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 3.14 | 1.78 | 2.49 | 11.37 | 72.16 |
| *Firebaugh | 3.59 | 2.02 | 1.25 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 1.59 | 1.15 | 2.47 | 12.20 |
| *Folsom | 13.94 | 7.13 | 2.60 | 0.00 | 0.01 | 0.16 | 0.00 | 0.00 | 0.12 | 1.50 | 2.98 | 4.46 | 32.90 |
| Fordyce Dam | 55.53 | 13.34 | 6.83 | 1.09 | 1.84 | 0.99 | 0.00 | 0.00 | 1.06 | 5.68 | 22.15 | 16.77 | 125.28 |
| Fort Bragg | 27.02 | 12.45 | 5.27 | 0.00 | 0.28 | 0.20 | 0.00 | 0.00 | 1.80 | 4.02 | 10.30 | 5.23 | 66.57 |
| Fort Ross | 37.44 | 15.67 | 6.22 | 0.00 | 0.02 | 0.08 | 0.00 | 0.00 | 1.50 | 3.11 | 11.37 | 10.36 | 85.77 |
| Fouts Springs | 30.36 | 13.83 | 2.78 | 0.00 | 0.04 | 0.44 | 0.00 | 0.52 | 0.53 | 2.37 | 4.52 | 5.02 | 60.41 |
| *Fresno | 4.44 | 2.76 | 1.18 | T. | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.72 | 2.79 | 4.50 | 16.47 |
| Fruto | 11.73 | 5.31 | 1.50 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.45 | 0.80 | 1.15 | 1.72 | 22.76 |
| Galt | 10.63 | 5.61 | 1.92 | 0.00 | 0.00 | 0.03 | ..... | 0.00 | 0.15 | 1.17 | 2.19 | 5.05 | ..... |
| Georgetown | 38.36 | 14.83 | 6.80 | 0.17 | 0.55 | 0.44 | ..... | ..... | 0.37 | 4.06 | 13.03 | 12.68 | ..... |
| Gilroy | 12.80 | 6.41 | 4.41 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.16 | 0.54 | 0.02 | 6.33 | 32.69 |
| Glendora | 12.42 | 6.28 | 4.24 | 0.20 | 0.00 | 0.18 | 0.07 | 0.00 | 0.00 | 0.37 | 2.46 | 11.97 | 38.19 |
| Glenn Ranch | 11.83 | 11.69 | 6.02 | 0.00 | 0.00 | 0.22 | 0.13 | 1.63 | 0.00 | 0.33 | 4.07 | 11.75 | 47.67 |
| Glenwood | 32.51 | 13.38 | 5.21 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 | 0.93 | 1.49 | 2.25 | 11.78 | 67.67 |
| Gold Run | 27.60 | 13.02 | 5.98 | 0.26 | 0.15 | 0.62 | 0.00 | 0.00 | 0.53 | 4.79 | 12.83 | 6.80 | 72.58 |
| Gonzales | 8.09 | 4.28 | 2.93 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.05 | 0.85 | 0.86 | 4.04 | 21.18 |
| Grass Valley | 38.34 | 13.65 | 6.27 | 0.48 | 1.15 | 0.49 | 0.00 | 0.00 | 0.51 | 3.73 | 10.08 | 13.84 | 88.54 |
| Greenville | 32.71 | 7.45 | 3.48 | 0.22 | 0.65 | 0.86 | 0.00 | 0.08 | 0.85 | 3.52 | 6.13 | 7.55 | 63.50 |
| Gridley | 11.45 | 7.46 | 1.87 | 0.00 | 0.16 | 0.17 | 0.00 | 0.00 | 0.71 | 1.92 | 2.37 | 5.20 | 31.31 |
| Groveland | 22.63 | 10.55 | 5.37 | 0.09 | T. | 0.36 | 0.00 | 0.00 | 0.09 | 2.58 | ..... | 13.43 | ..... |
| Guinda | 12.85 | 6.45 | 1.60 | 0.00 | 0.00 | 0.20 | 0.00 | T. | 0.54 | 1.34 | 0.85 | 5.80 | 29.63 |
| Hanford | 4.69 | 0.49 | 2.31 | 0.00 | 0.00 | 0.42 | 0.00 | 0.00 | 0.00 | 0.36 | 0.95 | 1.95 | 11.17 |
| Head Dam | 41.03 | 14.89 | 5.63 | 0.29 | 0.91 | 0.43 | 0.00 | 0.00 | 0.76 | 4.38 | 15.40 | 16.42 | 100.14 |
| Healdsburg | 33.68 | 13.17 | 4.52 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 1.34 | 2.33 | 2.84 | 7.51 | 65.52 |
| Heber | 0.04 | 0.08 | 0.38 | 0.00 | 0.00 | 0.00 | T. | 2.08 | T. | 0.00 | 0.05 | 0.19 | 2.82 |
| Helen Mine | 71.54 | 29.90 | 9.64 | 0.00 | 0.00 | 0.44 | 0.00 | 0.00 | 3.57 | 5.45 | 9.10 | 12.22 | 136.86 |
| Hollister | 8.11 | 4.22 | 2.77 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.06 | 0.66 | 1.11 | 5.45 | 22.39 |
| Hornbrook | 9.35 | 3.46 | 0.85 | 0.00 | T. | T. | 0.00 | T. | T. | 0.00 | 7.50 | 3.10 | 24.26 |
| Hot Springs | 16.06 | 9.34 | 6.29 | 0.00 | 0.00 | 0.00 | 0.00 | T. | T. | 0.96 | 2.35 | 8.24 | 43.84 |
| Hullville | 34.47 | 14.78 | 4.25 | 0.00 | 0.02 | 0.32 | T. | 0.00 | 1.18 | 3.54 | 7.94 | 6.38 | 72.88 |
| Idyllwild | 12.16 | 7.27 | 4.56 | 0.26 | 0.15 | 0.00 | 1.00 | 1.87 | 0.40 | 0.00 | 4.34 | 8.83 | 40.64 |
| *Independence | 3.27 | 2.73 | 0.16 | 0.12 | T. | T. | 0.00 | 0.25 | 0.07 | 0.01 | 0.19 | 3.90 | 10.70 |
| Indio | 0.28 | 0.29 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.87 | 1.12 | 0.00 | 0.20 | 0.86 | 4.07 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *California*—Continued. | | | | | | | | | | | | | |
| Inskip | 64.58 | 22.28 | 11.18 | 0.35 | 1.08 | 0.58 | T. | 0.00 | 3.04 | 5.78 | 12.24 | 13.07 | 134.18 |
| Ione | 12.66 | 6.58 | 3.03 | 0.00 | 0.00 | 0.17 | 0.00 | 0.00 | 0.00 | 1.30 | 3.72 | 4.47 | 31.93 |
| Iowa Hill | 28.90 | 11.22 | 5.94 | 0.25 | 0.88 | 0.56 | 0.00 | 0.00 | 0.38 | 3.72 | 10.71 | 12.25 | 74.81 |
| Isabella | 9.41 | 9.30 | 1.80 | 0.00 | 0.00 | 0.01 | 0.00 | 0.34 | 0.09 | 0.28 | 1.80 | 6.55 | 29.58 |
| *Jacksonville | 14.94 | 7.80 | 4.16 | 0.00 | 0.00 | 0.28 | 0.00 | 0.00 | T. | 1.34 | 3.98 | 4.28 | 36.78 |
| Jamestown | 18.20 | 8.55 | 4.40 | 0.05 | T. | 0.25 | 0.00 | 0.00 | 0.00 | 1.28 | 4.46 | 8.45 | 45.64 |
| *Jenny Lind | 12.68 | 5.58 | 1.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.78 | 4.58 | 26.66 |
| Jolon | 10.93 | 5.28 | 3.80 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.01 | 0.54 | 1.11 | 5.92 | 27.64 |
| Julian | 8.90 | 7.00 | 4.05 | 0.00 | 0.00 | 0.00 | 1.45 | 1.40 | 0.00 | 0.00 | 4.30 | 6.05 | 33.15 |
| Kennedy Mine | 16.75 | 7.55 | 3.98 | 0.02 | T. | 0.28 | 0.00 | 0.00 | 0.05 | 1.92 | 7.01 | 7.82 | 45.38 |
| *Kennett | 54.08 | 24.30 | 8.04 | 0.00 | T. | 0.00 | T. | 0.00 | 0.54 | 6.76 | 10.20 | 12.00 | 115.92 |
| Kentfield | 31.42 | 16.39 | 5.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.41 | 3.13 | 3.03 | 13.79 | 75.80 |
| Kernville | 8.41 | 8.52 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 1.29 | 7.22 | 27.48 |
| King City | 5.33 | 2.94 | 3.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.72 | 3.15 | 15.30 |
| *Knights Landing | 8.92 | 7.26 | 1.98 | 0.00 | T. | 0.10 | 0.00 | 0.00 | 0.58 | 0.92 | 1.70 | 5.16 | 26.62 |
| Knob | 16.67 | 19.31 | 0.67 | T. | 0.82 | 0.27 | 0.05 | 1.50 | 1.06 | 6.81 | 10.54 | 11.45 | 69.15 |
| La Grange | 9.89 | 5.36 | 2.49 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.00 | 0.91 | 2.04 | 5.00 | 25.89 |
| Lakeside | 3.12 | ------ | ------ | ------ | 0.20 | 0.00 | 0.00 | 0.18 | 0.00 | 0.00 | 3.18 | 5.47 | ------ |
| *La Porte | 63.52 | 17.50 | 7.31 | 0.63 | 1.44 | 0.74 | 0.00 | T. | 1.18 | 6.70 | 22.24 | 20.14 | 141.40 |
| *Lathrop | 6.21 | 3.46 | 1.65 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | T. | 0.77 | 1.20 | 4.26 | 17.59 |
| Laurel | 38.00 | 14.30 | 7.45 | 0.00 | 0.00 | 0.17 | 0.00 | 0.00 | 0.85 | 1.40 | 2.00 | 11.60 | 75.77 |
| Laytonville | 46.55 | 17.26 | 4.71 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 1.50 | 5.18 | 13.88 | 6.93 | 96.07 |
| Le Grand | 7.17 | 2.18 | 2.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 2.13 | 4.99 | 19.06 |
| Lemon Cove | 4.53 | 4.56 | 2.03 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 0.70 | 2.80 | 3.68 | 18.43 |
| Lick Observatory | 18.18 | 9.49 | 4.05 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 1.77 | 2.59 | 6.87 | 43.06 |
| Livermore | 10.18 | 3.96 | 1.94 | 0.00 | T. | 0.05 | 0.00 | 0.00 | 0.62 | 0.75 | 1.08 | 5.77 | 24.95 |
| Lodi | 8.35 | 5.13 | 1.95 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.12 | 1.14 | 2.03 | 5.34 | 24.01 |
| Lone Pine | 0.89 | 2.22 | 0.23 | T. | 0.00 | T. | 0.00 | 0.23 | 0.36 | T. | T. | 2.92 | 6.85 |
| Long Camp | 29.44 | 13.40 | 5.79 | 0.20 | 0.15 | 0.46 | 0.00 | 0.00 | 0.10 | 3.35 | 9.18 | 11.83 | 73.90 |
| Long Valley | ------ | ------ | ------ | T. | 0.19 | 0.28 | 0.00 | 0.43 | 0.33 | 0.75 | 2.08 | 5.01 | ------ |
| Lordsburg | 8.46 | 5.53 | 4.06 | 0.00 | 0.00 | 0.33 | 0.00 | 0.17 | 0.00 | 0.00 | 2.14 | 6.81 | 27.50 |
| Los Alamos | ------ | 6.82 | 5.66 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | T. | 0.95 | 1.68 | 7.10 | ------ |
| *Los Angeles | 7.27 | 5.20 | 2.51 | T. | 0.00 | 0.11 | 0.00 | T. | 0.04 | 0.28 | 1.51 | 7.00 | 23.92 |
| Los Banos | 4.96 | 2.50 | 1.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.70 | 3.29 | 13.34 |
| Los Gatos | 23.90 | 10.83 | 4.85 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 1.15 | 0.63 | 1.71 | 8.63 | 51.77 |
| Los Vaqueros | 12.20 | 5.95 | 4.13 | 0.07 | 0.00 | T. | 0.00 | 0.00 | 0.05 | 0.30 | 0.94 | 3.32 | 26.96 |
| Lowe Observatory | 14.22 | 11.94 | 7.38 | 0.56 | 0.03 | 0.75 | T. | ------ | 0.15 | 1.40 | 3.10 | 18.98 | ------ |
| Lytle Creek | 20.25 | 16.34 | 9.71 | 0.06 | 0.00 | 0.19 | 0.35 | 1.50 | 0.00 | 0.56 | 5.25 | 18.72 | 72.93 |
| Macdoel | 3.39 | 2.92 | 0.71 | 0.05 | 0.25 | 0.21 | 0.42 | 0.63 | 0.15 | 0.81 | 11.50 | ------ | ------ |
| Madeline | 4.57 | 3.40 | 1.41 | 0.63 | 0.80 | 0.86 | 0.08 | 0.40 | 0.35 | 1.10 | 2.62 | 2.08 | 18.30 |
| Magalia | 64.77 | 28.62 | 12.77 | 0.24 | 1.06 | 0.37 | T. | 0.00 | 3.28 | 6.77 | 14.24 | 18.50 | 150.62 |
| *Malones | 19.47 | 13.28 | 5.32 | 0.00 | 0.00 | 0.24 | 0.00 | 0.00 | 0.00 | 1.02 | 3.70 | 6.92 | 79.95 |
| Mammoth Tank | 0.00 | 0.02 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 5.40 | 0.04 | 0.00 | 0.40 | 0.68 | 7.37 |
| Mariposa | 21.70 | 7.26 | 3.70 | 0.00 | 0.00 | 0.77 | 0.00 | 0.00 | 0.00 | 2.67 | 6.42 | 9.75 | 52.27 |
| *Marysville | 9.19 | 4.90 | 1.51 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.75 | 1.16 | 3.21 | 4.99 | 25.74 |
| Mecca | 0.34 | 0.15 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 1.57 | 0.40 | 0.00 | 0.34 | 0.85 | 4.01 |
| Menlo Park | 11.91 | 5.79 | 2.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.12 | 0.57 | 1.36 | 5.65 | 29.05 |
| Merced | 8.00 | 2.04 | 1.30 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.39 | 0.60 | 2.92 | 15.30 |
| *Merced Falls | 9.06 | 3.96 | 1.96 | 0.00 | 0.00 | 0.28 | 0.00 | 0.00 | T. | 1.15 | 2.23 | 2.92 | 21.56 |
| Mesa Grande | 15.65 | 8.84 | 4.34 | 0.69 | 0.14 | 0.00 | T. | 1.73 | T. | 0.00 | 5.48 | 10.00 | 46.87 |
| Mill Creek No. 1 | 26.25 | 9.57 | 5.43 | 0.21 | 0.29 | 0.30 | 0.00 | 0.00 | 0.08 | 3.36 | 10.29 | 12.95 | 68.73 |
| Mill Creek No. 2 | 9.05 | 6.01 | 4.69 | 0.72 | 0.49 | 0.08 | T. | 0.44 | 0.08 | 0.00 | 2.77 | 7.95 | 32.28 |
| Mills College | 15.07 | 7.64 | 3.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.93 | 1.20 | 3.51 | 6.77 | 39.01 |
| Milo | 19.10 | 8.10 | 2.74 | 0.00 | 0.00 | 0.00 | 0.00 | T. | 0.00 | 0.55 | 4.65 | 9.18 | 44.32 |
| Milton (near) | 12.27 | 6.22 | 2.14 | T. | T. | 0.07 | 0.00 | 0.00 | T. | 0.76 | 3.48 | 5.55 | 30.49 |
| Modesto | 4.68 | 3.50 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 1.58 | 3.35 | 14.39 |
| Mojave | 3.14 | 2.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 | 0.75 | 2.10 | 8.61 |
| Mokelumne Hill | 18.45 | 8.53 | 4.81 | 0.03 | T. | 0.28 | 0.00 | 0.00 | 0.02 | 1.74 | 7.04 | 8.89 | 49.79 |
| Mono Ranch | 10.85 | 16.13 | 8.18 | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 | 0.00 | 1.18 | 1.63 | 11.74 | 49.94 |
| Montague | 5.63 | 2.57 | 0.64 | 0.05 | 0.22 | 0.52 | 1.12 | 0.08 | 0.45 | 1.23 | 3.11 | 1.21 | 16.83 |
| Monterey | 11.69 | 4.45 | 4.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.64 | 0.29 | 1.61 | 5.42 | 28.39 |
| Monterlo | ------ | 4.40 | 3.75 | 0.25 | 0.00 | 0.02 | 0.00 | 0.15 | 0.10 | 0.17 | 2.77 | 3.75 | ------ |
| Montgomery Creek | 33.87 | 18.63 | 4.85 | 0.13 | 0.89 | 0.00 | 0.29 | 0.00 | 2.90 | 6.22 | 17.62 | 6.71 | 92.11 |
| Monumental | 43.84 | 25.80 | 7.26 | 0.51 | 4.10 | 0.25 | 1.60 | T. | 3.46 | 15.70 | 39.73 | 11.29 | 153.54 |
| Mount St. Helena | 40.33 | 14.40 | 6.42 | 0.00 | T | 0.25 | 0.00 | T. | 2.37 | 1.57 | 10.40 | 10.49 | 86.23 |
| *Mount Tamalpais | 15.63 | 8.10 | 3.57 | T. | 0.10 | T. | 0.00 | 0.00 | 1.16 | 2.37 | 3.93 | 7.30 | 42.16 |
| Napa City | 15.93 | 8.32 | 2.54 | 0.00 | 0.00 | T. | 0.00 | 0.00 | 0.85 | 1.77 | 2.90 | 8.03 | 40.34 |
| Napa (S. H.) | 15.04 | 7.22 | 3.02 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.75 | 1.62 | 2.45 | 6.64 | 36.76 |
| Needles | 0.13 | 0.41 | 1.43 | 0.00 | T. | 0.00 | 1.40 | 7.21 | 1.47 | 0.00 | T. | 1.20 | 13.25 |
| Nellie | 23.10 | 11.27 | 6.51 | 0.19 | 0.14 | 0.00 | 0.11 | 1.70 | 0.17 | 0.00 | 7.78 | 17.34 | 68.31 |
| *Nevada City | 31.85 | 12.46 | 5.61 | 0.62 | 1.44 | 0.56 | T. | T. | 0.55 | 3.48 | 8.94 | 11.04 | 76.55 |
| Newcastle | 18.62 | 8.09 | 3.08 | 0.00 | 0.05 | 0.28 | 0.00 | 0.00 | 0.00 | 1.72 | 5.17 | 6.07 | 43.08 |
| Newhall | 5.92 | 6.48 | 5.10 | 0.00 | 0.00 | 0.05 | 0.00 | 0.45 | 0.09 | 0.65 | 2.18 | 12.26 | 33.18 |
| Newman | 4.91 | 3.23 | 1.71 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.40 | 0.69 | 3.69 | 14.65 |
| Nimshew | 9.58 | 19.98 | 11.49 | 0.22 | 0.92 | 0.32 | 0.00 | 0.00 | 2.14 | 3.85 | 10.19 | 14.57 | 103.26 |
| North Bloomfield | 34.33 | 13.87 | 7.38 | 0.88 | 0.55 | 2.00 | 0.00 | 0.00 | 0.04 | 6.06 | 8.45 | 10.47 | 84.03 |
| North Fork | 23.15 | 9.58 | 4.95 | 0.10 | T. | 1.01 | 0.00 | 0.00 | T. | 2.15 | 7.29 | 13.36 | 61.59 |
| North Lakeport | 23.48 | 10.01 | 3.40 | 0.00 | 0.00 | 0.14 | 0.00 | 0.00 | 0.36 | 1.93 | 3.39 | 4.36 | 47.07 |
| Oakdale | 5.77 | 3.21 | 1.96 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.55 | 1.83 | 3.36 | 16.74 |
| Oakland | 10.62 | 7.77 | 3.13 | 0.00 | 0.00 | 0.00 | T. | 0.00 | 0.69 | 1.42 | 2.66 | 6.22 | 32.51 |
| Oakville | 23.77 | 10.67 | 3.27 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.74 | 1.69 | 3.13 | 8.24 | 51.54 |
| Ojai Valley | 10.75 | 8.27 | 5.52 | 0.07 | T. | 0.10 | 0.00 | 0.00 | 0.05 | 0.98 | 1.10 | 12.28 | 39.12 |
| Orland | 9.78 | 5.95 | 1.57 | 0.00 | 0.42 | 0.05 | 0.00 | T. | 0.74 | 0.71 | 1.74 | 3.13 | 24.09 |
| Orleans | 21.09 | 11.85 | 2.33 | 0.11 | 0.52 | 0.26 | 0.42 | 0.00 | 1.40 | 7.14 | 20.14 | 6.91 | 72.17 |
| *Orville (near) | 15.41 | 9.29 | 2.91 | 0.00 | 0.19 | 0.22 | 0.00 | 0.00 | 0.85 | 2.06 | 3.58 | 6.97 | 41.48 |
| Ozena | 6.61 | 4.90 | 4.73 | 0.19 | 0.00 | 0.32 | 0.00 | 0.67 | 0.00 | 0.10 | 1.60 | 8.83 | 27.86 |
| Palermo | 13.05 | 7.05 | 2.53 | 0.00 | 0.16 | 0.25 | 0.00 | T. | 0.75 | 1.98 | 2.74 | 4.47 | 32.98 |
| PalmSprings | 0.79 | 0.81 | 0.59 | 0.05 | 0.00 | 0.00 | 0.00 | 1.23 | 0.11 | 0.00 | 0.07 | 1.85 | 5.50 |
| Parkfield (near) | 13.61 | 5.54 | 3.23 | 0.19 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.76 | 2.09 | 7.02 | 32.51 |
| *Pasadena | 10.45 | 6.70 | 4.99 | 0.07 | 0.00 | 0.20 | 0.12 | 0.06 | 0.08 | 0.65 | 2.25 | 8.66 | 34.23 |
| *Paso Robles | 12.05 | 4.99 | 3.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | T. | 0.72 | 1.94 | 6.30 | 29.58 |
| Peachland | 29.89 | 13.27 | 4.77 | 0.01 | T. | 0.11 | 0.00 | 0.00 | 1.50 | 2.54 | 3.84 | 10.60 | 66.53 |
| Penstock Camp | 24.04 | 11.33 | 5.20 | 0.13 | 0.08 | 0.55 | 0.00 | 0.00 | 0.10 | 2.40 | 8.50 | 12.57 | 64.90 |
| Peyton | 9.34 | 7.65 | 2.85 | 0.00 | 0.00 | T. | 0.00 | 0.00 | 0.61 | 0.81 | 1.52 | 6.14 | 28.92 |
| Phoenix Dam | 17.14 | 9.12 | 4.43 | 0.15 | 0.02 | 0.34 | 0.00 | 0.00 | 0.01 | 1.82 | 5.92 | 8.70 | 47.65 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *California*—Continued. | | | | | | | | | | | | | |
| Pilot Creek | 50.25 | 16.17 | 8.28 | 0.77 | 0.47 | 0.46 | 0.00 | 0.00 | 0.59 | 4.67 | 15.01 | 17.31 | 113.98 |
| Pine Crest | 19.04 | 10.80 | 8.04 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.25 | 0.88 | ..... | 9.61 | ..... |
| Pittville | 8.60 | 3.10 | 1.60 | T. | 1.70 | 0.70 | 0.00 | 0.00 | 0.90 | 2.90 | 4.50 | 2.10 | 26.10 |
| Placerville | 24.35 | 9.14 | 4.54 | 0.08 | 0.10 | 0.42 | 0.00 | 0.00 | 0.11 | 2.58 | 8.64 | 8.32 | 58.28 |
| Point Lobos | 11.08 | 7.46 | 3.34 | T. | 0.00 | 0.00 | 0.00 | 0.00 | 0.61 | 1.21 | 2.43 | 4.71 | 30.84 |
| Point Loma | 3.39 | 1.93 | 2.31 | 0.02 | 0.04 | 0.03 | 0.01 | 0.00 | 0.07 | 0.02 | 3.16 | 3.19 | 14.17 |
| *Point Reyes | 9.78 | 5.71 | 2.86 | T. | T. | T. | 0.00 | 0.00 | 0.87 | 0.90 | 2.73 | 3.50 | 26.35 |
| *Pollasky | 7.44 | 4.32 | 1.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 3.12 | 4.30 | 21.18 |
| Porterville | 6.10 | 3.73 | 2.08 | 0.02 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.50 | 1.79 | 2.78 | 17.05 |
| Poway | 7.49 | 4.48 | 2.64 | T. | T. | 0.00 | 0.00 | 0.28 | ..... | ..... | ..... | ..... | ..... |
| Priest Valley | 12.94 | 3.70 | 4.36 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.01 | 0.78 | 2.13 | 9.70 | 33.67 |
| *Quincy | 35.17 | 9.18 | 4.05 | 0.18 | 0.69 | 0.56 | T. | T. | 1.33 | 3.78 | 5.43 | 8.50 | 68.87 |
| *Red Bluff | 13.42 | 8.20 | 4.46 | 0.03 | 0.25 | 0.31 | T. | 0.00 | 0.45 | 0.82 | 2.70 | 4.35 | 34.99 |
| Redding | 24.28 | 12.70 | 2.93 | 0.01 | 0.15 | 0.03 | 0.00 | T. | 1.00 | 1.43 | 7.30 | 6.55 | 56.38 |
| *Redlands | 5.06 | 2.87 | 2.25 | 0.16 | 0.57 | 0.07 | T. | 0.19 | 0.06 | 0.05 | 1.67 | 4.43 | 17.38 |
| Reedley | 5.08 | 3.24 | 2.38 | 0.14 | 0.00 | 0.18 | 0.00 | 0.00 | 0.00 | 0.33 | 2.65 | 5.66 | 19.66 |
| Represa | 14.96 | 7.44 | 2.92 | 0.00 | T. | 0.19 | 0.00 | 0.00 | 0.10 | 1.38 | 3.47 | 5.64 | 36.10 |
| Rialto (near) | 20.42 | 12.10 | 6.76 | 0.47 | 0.06 | 0.20 | 0.25 | 1.44 | 0.00 | 0.73 | 6.72 | 21.32 | 70.47 |
| *Rio Vista | 9.10 | 6.98 | 2.64 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.44 | 0.34 | 1.82 | 4.92 | 21.36 |
| *Riverside | 4.89 | 2.73 | 1.87 | 0.11 | 0.09 | 0.09 | 0.00 | 1.23 | 0.00 | 0.06 | 1.96 | 5.03 | 18.06 |
| Rocklin | 16.74 | 7.48 | 2.68 | 0.00 | T. | 0.23 | 0.00 | 0.00 | 0.20 | 1.51 | 3.11 | 5.60 | 37.55 |
| Rohnerville | 18.33 | 12.23 | 3.39 | 0.11 | 0.84 | 0.16 | 0.22 | T. | 0.26 | 3.34 | 10.02 | 5.24 | 54.14 |
| *Sacramento No. 1 | 9.65 | 6.68 | 1.84 | T. | T. | 0.03 | 0.00 | 0.00 | 0.21 | 1.27 | 1.32 | 3.87 | 24.87 |
| Sacramento No. 2 | 12.35 | 8.35 | 2.13 | T. | T. | 0.06 | 0.00 | 0.00 | 0.24 | 1.56 | 1.54 | 4.71 | 30.94 |
| St. Helena | 27.64 | 11.25 | 3.43 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 1.12 | 1.62 | 4.82 | 8.22 | 58.18 |
| Salinas | 7.02 | 4.38 | 4.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.26 | 0.17 | 0.65 | 4.90 | 21.41 |
| *San Bernardino | 7.49 | 3.76 | 2.29 | 0.17 | 0.02 | 0.10 | 0.00 | 1.28 | 0.00 | 0.04 | 2.28 | 7.19 | 24.62 |
| *San Diego | 3.57 | 1.76 | 2.62 | 0.02 | T. | T. | T. | T. | 0.02 | 0.00 | 2.39 | 3.76 | 14.14 |
| *San Francisco | 10.51 | 7.53 | 3.27 | T. | T. | T. | T. | 0.00 | 0.80 | 1.23 | 2.43 | 5.59 | 31.36 |
| San Jacinto | 3.96 | 3.25 | 3.64 | 0.00 | 0.15 | 0.00 | 0.18 | 0.23 | 0.00 | 0.00 | 1.70 | 4.89 | 18.00 |
| *San Jose | 7.69 | 4.87 | 2.77 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.75 | 0.72 | 1.27 | 5.37 | 23.49 |
| San Leandro | 13.07 | 8.24 | 3.67 | 0.00 | 0.00 | T. | T. | 0.00 | 0.84 | 0.74 | 2.65 | 6.43 | 35.64 |
| *San Luis Obispo | 17.00 | 6.47 | 4.04 | 0.03 | 0.00 | T. | 0.00 | 0.00 | 0.02 | 0.54 | 2.24 | 10.09 | 40.43 |
| San Mateo | 15.74 | 7.33 | 2.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.72 | 0.72 | 1.63 | 5.61 | 34.73 |
| San Miguel | 7.84 | 3.11 | 3.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | T. | 0.48 | 2.23 | 4.30 | 21.38 |
| San Miguel Island | 8.61 | 4.24 | 7.07 | 0.07 | 0.07 | 0.24 | 0.24 | 0.18 | 0.08 | 0.15 | 1.67 | 4.89 | 27.51 |
| Sanger | 5.52 | 1.88 | 0.53 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 3.11 | 1.25 | 12.49 |
| Santa Ana River | 10.21 | 7.89 | 4.44 | 0.40 | 0.17 | 0.10 | T. | 0.00 | T. | 0.12 | 3.88 | 10.88 | 38.09 |
| Santa Barbara | 15.67 | 7.92 | 6.91 | 0.00 | 0.03 | 0.08 | T. | 0.01 | 0.17 | 0.57 | 2.34 | 9.53 | 43.23 |
| Santa Clara | 8.89 | 5.31 | 3.14 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 1.02 | 0.63 | 1.38 | 5.28 | 25.71 |
| Santa Cruz | 19.90 | 9.35 | 4.60 | 0.03 | 0.00 | 0.10 | 0.00 | 0.00 | 1.47 | 1.80 | 1.77 | 11.39 | 50.41 |
| Santa Margarita | 14.25 | 11.91 | 3.20 | 0.00 | 0.00 | T. | 0.00 | 0.00 | 0.00 | 0.50 | 2.30 | 13.12 | 45.28 |
| Santa Maria | 10.31 | 4.98 | 4.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 | 2.14 | 5.89 | 28.46 |
| Santa Monica | 8.24 | 3.94 | 2.56 | 0.00 | 0.00 | T. | 0.00 | 0.40 | 0.00 | 0.44 | 1.88 | 6.70 | 24.16 |
| Santa Rosa | 18.45 | 8.74 | 3.98 | 0.00 | T. | 0.07 | 0.00 | T. | 1.29 | 1.73 | 4.53 | 7.61 | 46.40 |
| Sausalito | 16.55 | 8.91 | 3.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.91 | 1.82 | 4.18 | 8.10 | 36.08 |
| Selma | 5.26 | 3.37 | 1.73 | 0.00 | 0.00 | 0.15 | 0.00 | 0.00 | 0.00 | 0.04 | 3.12 | 3.09 | 16.76 |
| Shasta | 35.96 | 15.17 | 4.73 | T. | 0.24 | 0.00 | 0.00 | 0.00 | 1.96 | 3.32 | 7.40 | 6.62 | 75.40 |
| Shingle Springs | 19.00 | 7.46 | 3.92 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.15 | 2.08 | 5.00 | 7.48 | 45.29 |
| Sierra Madre | 14.61 | 9.63 | 6.71 | 0.60 | 0.10 | 0.21 | 0.02 | 0.01 | 0.16 | 0.87 | 2.91 | 11.07 | 46.90 |
| Sisquoc Ranch | 15.80 | 7.63 | 5.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | T. | 0.95 | 2.09 | 8.42 | 40.04 |
| *Sisson | 20.72 | 17.87 | 3.36 | 0.08 | 0.21 | 0.26 | 0.19 | 0.00 | 0.85 | 2.77 | 4.27 | 6.19 | 56.77 |
| Soledad | 5.29 | 2.55 | 2.28 | 0.00 | 0.00 | T. | 0.00 | 0.00 | 0.00 | 0.48 | 0.83 | 4.10 | 15.53 |
| Sonora | 17.62 | 8.28 | 4.03 | T. | T. | 0.30 | 0.00 | 0.00 | T. | 1.29 | 4.75 | 8.59 | 44.86 |
| *S. E. Farallon | 8.18 | 5.78 | 2.94 | 0.00 | 0.01 | 0.06 | 0.00 | 0.00 | 0.70 | 0.56 | 2.13 | 4.32 | 24.68 |
| Spreckels | 6.81 | 4.51 | 3.15 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.29 | 0.54 | 1.07 | 5.21 | 21.61 |
| Stirling City | 51.63 | 18.35 | 7.35 | 0.20 | 1.55 | 0.28 | 0.00 | 0.00 | 2.10 | 3.57 | 9.55 | 14.05 | 108.63 |
| Stockton (S. H.) | 7.85 | 3.87 | 1.26 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.07 | 1.06 | 1.56 | 4.82 | 20.32 |
| Storey | 2.95 | 0.77 | 1.42 | 0.00 | 0.00 | T. | 0.00 | 0.00 | 0.00 | 0.67 | 0.93 | 5.00 | 11.74 |
| Suisun | 11.28 | 8.62 | 1.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.53 | 1.29 | 1.35 | 4.61 | 29.33 |
| Summerdale | 34.49 | 14.02 | 7.73 | 0.86 | 0.06 | 0.90 | 0.00 | 0.00 | 0.04 | 2.55 | 8.70 | 19.92 | 89.27 |
| *Summit | 29.44 | 8.94 | 4.60 | 0.40 | 1.10 | 0.88 | 0.00 | 0.00 | 0.72 | 1.66 | ..... | 8.30 | ..... |
| Surrey (near) | ..... | ..... | 5.95 | 0.06 | 0.19 | 0.03 | T. | 0.22 | 0.02 | 1.34 | 2.46 | 9.69 | ..... |
| Susanville | 10.23 | 3.22 | 1.61 | 0.05 | 0.45 | 0.27 | T. | 0.18 | 0.46 | 1.32 | 3.28 | 2.38 | 23.45 |
| Tamarack | 25.77 | 10.66 | 4.22 | 1.36 | 1.74 | 0.31 | 0.00 | 0.00 | 0.33 | 3.99 | 14.36 | 10.34 | 73.08 |
| Tehachipi | 2.33 | 4.18 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 1.74 | 2.93 | 13.28 |
| *Tehama | 11.62 | 6.91 | 3.00 | 0.07 | 0.70 | 0.13 | 0.00 | 0.00 | 0.60 | 0.37 | 2.33 | 4.52 | 30.25 |
| Three Rivers | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.01 | 0.00 | 1.48 | 4.67 | 6.57 | ..... |
| Towle | 29.86 | 13.68 | 6.55 | 1.75 | 0.23 | 0.66 | 0.00 | 0.00 | 0.62 | 4.94 | 11.88 | 10.91 | 81.08 |
| Tracy | 5.30 | 2.99 | 1.09 | 0.00 | 0.00 | 0.14 | 0.00 | 0.00 | 0.68 | 0.00 | 1.51 | 3.27 | 14.98 |
| Truckee | ..... | ..... | 2.45 | 0.50 | 0.80 | 0.48 | T. | 0.00 | 0.01 | 0.25 | 2.76 | 12.21 | ..... |
| Tulare | 4.81 | 4.63 | 1.72 | 0.03 | 0.00 | T. | 0.00 | 0.00 | 0.00 | 0.23 | 1.53 | 3.83 | 16.78 |
| Tulare (near) | 4.89 | 3.19 | 1.97 | T. | 0.00 | T. | 0.00 | 0.00 | 0.00 | 0.20 | ..... | ..... | ..... |
| Tustin | 4.72 | 3.53 | 3.18 | 0.14 | 0.00 | 0.06 | 0.00 | 0.03 | 0.04 | 0.07 | 1.51 | 5.48 | 18.76 |
| Ukiah | 30.75 | 12.53 | 4.56 | 0.00 | 0.00 | 0.10 | 0.04 | 0.00 | 0.48 | 2.36 | 5.14 | 5.81 | 61.77 |
| Upland | 11.08 | 7.04 | 3.95 | 0.17 | 0.00 | 0.00 | 0.05 | 0.02 | T. | 0.36 | 2.33 | 11.41 | 36.41 |
| Upper Lake | 21.34 | 8.19 | 2.61 | 0.00 | T. | 0.17 | 0.00 | 0.00 | 0.95 | 1.84 | 4.18 | 4.65 | 43.93 |
| Upper Mattole | 47.84 | 24.81 | 8.49 | 0.07 | 0.47 | 0.10 | 0.18 | 0.00 | 2.07 | 7.71 | 19.16 | 10.89 | 121.79 |
| Vacaville | 15.18 | 9.29 | 2.43 | 0.00 | 0.00 | T. | 0.00 | 0.00 | 0.69 | 1.41 | 1.48 | 9.45 | 39.93 |
| Valley Springs | 11.91 | 5.85 | 2.75 | 0.01 | 0.00 | 0.22 | 0.00 | 0.00 | ..... | 1.30 | 4.28 | 5.25 | ..... |
| Ventura | 11.55 | 5.52 | 5.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 1.05 | 7.57 | 31.33 |
| Visalia | 6.30 | 3.91 | 1.37 | 0.51 | 0.00 | T. | 0.00 | 0.00 | 0.00 | 0.75 | 2.24 | 2.79 | 17.77 |
| Warner Springs | 5.78 | 4.31 | 2.38 | 0.08 | 0.00 | 0.00 | 1.26 | 3.25 | 1.41 | 0.00 | 2.66 | 7.93 | 29.06 |
| Waseo | 1.94 | 1.42 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.55 | 0.55 | 0.75 | 5.83 |
| Wassonville | 14.10 | 7.39 | 4.12 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.44 | 0.79 | 1.80 | 10.41 | 39.15 |
| Westley | 3.93 | 3.09 | 1.03 | 0.00 | 0.00 | T. | 0.00 | 0.00 | 0.00 | 0.35 | ..... | 3.21 | ..... |
| West Branch | 63.71 | 20.78 | 9.86 | 0.42 | 2.52 | 0.53 | 0.02 | 0.00 | 2.59 | 5.04 | 13.98 | 15.39 | 119.45 |
| West Point | 21.62 | 11.04 | 5.82 | 0.03 | 0.23 | 0.34 | 0.00 | 0.00 | 0.06 | 2.52 | 9.34 | 10.74 | 61.74 |
| West Saticoy | 10.06 | 5.74 | 4.70 | 0.00 | 0.00 | T. | 0.00 | 0.00 | 0.00 | 0.48 | 1.45 | 9.31 | 31.74 |
| Wheatland | 12.10 | 6.90 | 1.60 | T. | 0.06 | 0.30 | 0.00 | 0.00 | 0.40 | 1.43 | 2.61 | 5.99 | 31.39 |
| Willows | 9.37 | 5.92 | 1.81 | 0.00 | 0.13 | 0.15 | 0.00 | T. | 0.52 | 0.75 | 1.11 | 3.05 | 22.81 |
| Woodleaf | 63.06 | 18.92 | 7.79 | 0.40 | 1.55 | 0.50 | 0.00 | 0.00 | 1.36 | 3.85 | 14.45 | 13.38 | 125.28 |
| Yosemite | 24.62 | 11.35 | 3.91 | 0.46 | 0.78 | 0.39 | 0.00 | T. | 0.46 | ..... | 10.15 | 13.12 | ..... |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Colorado.* | | | | | | | | | | | | | |
| Akron | T. | 1.38 | 3.06 | 1.15 | ..... | 3.14 | 1.98 | 3.09 | 2.70 | ..... | 0.48 | 0.55 | ..... |
| Alma | ..... | ..... | ..... | ..... | ..... | 0.40 | 4.30 | 4.68 | 2.98 | 0.36 | 1.58 | ..... | ..... |
| Amethyst (near) | 1.77 | 0.80 | 0.36 | 1.88 | 0.39 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Arriba (near) | 0.05 | 0.65 | 1.72 | 1.15 | 2.61 | 4.38 | 3.08 | 1.58 | 2.51 | 1.35 | 0.95 | ..... | ..... |
| Ashcroft | 1.95 | 2.07 | 1.45 | 2.83 | 0.87 | 0.61 | 2.29 | 4.88 | 2.75 | 1.04 | 1.71 | 2.41 | 24.86 |
| Auldhurst | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 6.11 | 0.90 | 1.49 | 0.59 | ..... |
| Barker | 0.50 | 0.72 | 1.71 | 2.84 | 1.60 | 3.64 | 3.30 | 4.12 | 2.06 | 0.25 | ..... | ..... | ..... |
| Blaine | 0.25 | 0.01 | 0.96 | 0.82 | 1.69 | 1.45 | 1.18 | 0.98 | 3.51 | 0.29 | 1.40 | 0.30 | 12.84 |
| Blanca | 0.15 | 0.10 | 0.03 | 1.18 | 0.75 | 0.42 | 0.70 | 4.07 | 0.76 | 1.18 | 0.39 | 0.14 | 9.87 |
| Boreas | ..... | ..... | ..... | ..... | ..... | 1.26 | 3.34 | 4.47 | 2.81 | 0.53 | 0.94 | 1.76 | ..... |
| Boulder | 0.11 | 1.21 | 3.96 | 3.60 | 1.85 | 1.67 | 3.18 | 2.42 | 4.51 | 0.55 | 1.56 | 1.72 | 26.34 |
| Breckenridge | ..... | ..... | ..... | 1.29 | 0.58 | 0.80 | 3.04 | 5.81 | 1.86 | 0.51 | 0.71 | 1.35 | ..... |
| Buena Vista | 0.62 | 0.90 | 0.92 | 0.43 | 1.20 | T. | 1.63 | 3.35 | ..... | ..... | ..... | 1.75 | ..... |
| Burlington | 0.04 | 0.17 | 1.32 | 0.61 | 0.96 | 4.14 | 2.64 | 0.82 | 0.58 | 1.10 | 1.16 | 0.70 | 14.24 |
| Calhan | 0.27 | 0.73 | 1.88 | 2.00 | 1.23 | 2.85 | 2.86 | 2.71 | 5.22 | 1.27 | 1.08 | 0.80 | 22.90 |
| Canon City | 0.44 | 0.73 | 0.83 | 1.82 | 2.39 | 0.48 | 0.51 | 1.06 | 3.34 | 0.99 | 1.48 | 0.86 | 14.93 |
| Cascade | 4.74 | 4.40 | 1.88 | 2.30 | 0.97 | 0.38 | 4.41 | 7.07 | 5.67 | 1.91 | 4.89 | 6.93 | 45.55 |
| Cassells | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.10 | 1.13 | 0.66 | ..... |
| Castle Rock | T. | 1.40 | 1.86 | 1.95 | 1.52 | 1.67 | 1.69 | 2.34 | 3.98 | 0.86 | 0.60 | 0.93 | 18.80 |
| Cheesman | 0.22 | 0.81 | 0.87 | 2.08 | 1.58 | 2.31 | 1.57 | 3.30 | 3.58 | 0.41 | 1.67 | 0.67 | 19.07 |
| Cheyenne Wells | 0.56 | 0.18 | 1.88 | 0.49 | 1.96 | 8.62 | 4.72 | 0.78 | 2.93 | 1.00 | 1.43 | 0.27 | 24.82 |
| Chromo | 2.57 | 2.11 | 0.54 | 0.96 | 0.60 | 0.16 | 2.41 | 4.86 | 2.32 | 0.99 | 1.23 | 1.57 | 20.32 |
| Cochetopa | ..... | ..... | ..... | ..... | ..... | 0.22 | 1.88 | 3.22 | 2.33 | 0.52 | 0.58 | 0.26 | ..... |
| Collbran | 2.72 | 0.75 | 0.13 | 2.38 | 0.80 | 0.29 | 0.52 | 2.12 | 2.32 | 0.37 | 1.97 | 1.89 | 16.26 |
| *Colorado Springs | 0.44 | 0.72 | 1.50 | 1.27 | 1.65 | 1.86 | 1.94 | 3.82 | 4.63 | 0.57 | 2.30 | 0.34 | 21.04 |
| Columbine | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.25 | 2.24 | 5.57 | ..... |
| Columbine Ranch | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.38 | 5.50 | ..... |
| Como | ..... | ..... | ..... | ..... | ..... | 0.25 | 2.72 | 4.51 | 4.30 | 0.15 | 1.93 | ..... | ..... |
| Cope | 0.15 | 0.90 | 5.17 | 2.02 | 3.30 | 7.58 | 4.25 | 0.39 | 1.17 | 1.04 | 1.68 | 3.02 | 30.67 |
| *Corona | 7.72 | 7.32 | 8.26 | 9.67 | 5.16 | 2.70 | 1.72 | 5.25 | 3.58 | 1.30 | 1.96 | 3.68 | 58.32 |
| Crawford (near) | ..... | ..... | ..... | ..... | ..... | 0.34 | 1.06 | 1.63 | 1.89 | 0.92 | 0.58 | 1.34 | ..... |
| Crested Butte | ..... | ..... | ..... | ..... | ..... | 0.53 | 2.71 | 2.33 | 2.00 | 0.80 | ..... | 5.45 | ..... |
| Cripple Creek | 0.26 | 0.62 | 1.34 | 1.19 | 0.91 | 1.36 | 3.06 | 5.56 | 3.72 | 0.98 | 1.18 | 1.17 | 21.35 |
| Cuchara Camps | ..... | ..... | 0.59 | 3.32 | 2.51 | 0.48 | 1.79 | 4.08 | 3.05 | 1.55 | 2.76 | 1.27 | ..... |
| Cumbres | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.37 | 2.77 | 5.05 | ..... |
| Delta | 1.52 | 0.33 | T. | 1.10 | 0.10 | 0.30 | 1.25 | 1.52 | 1.08 | 0.42 | 1.01 | 1.71 | 10.34 |
| *Denver | 0.21 | 1.35 | 3.03 | 2.59 | 1.74 | 1.70 | 4.17 | 2.13 | 3.78 | 0.28 | 1.10 | 0.88 | 22.96 |
| Dillon | ..... | ..... | ..... | ..... | ..... | 0.55 | 3.87 | 2.85 | 1.27 | 0.50 | 1.28 | 4.32 | ..... |
| Dolores | 0.74 | 1.20 | 0.55 | 0.65 | 0.06 | T. | 0.47 | 4.81 | 1.45 | 0.31 | 0.84 | ..... | ..... |
| Dunkley | 1.54 | 1.14 | ..... | 2.72 | ..... | ..... | 0.26 | 1.30 | ..... | ..... | ..... | ..... | ..... |
| *Durango | 2.59 | 2.97 | 1.27 | 0.79 | 0.62 | 0.27 | 2.20 | 3.54 | 3.63 | 0.44 | 1.81 | 3.81 | 23.94 |
| Eads | 0.25 | 0.00 | 1.43 | 0.92 | 1.00 | 3.12 | 2.25 | 0.73 | 1.37 | 1.35 | 0.36 | 0.30 | 13.08 |
| Eagle | 2.63 | 0.64 | 1.31 | 0.98 | 0.73 | 0.41 | 1.78 | 2.71 | 1.27 | 0.84 | 1.08 | 2.05 | 16.43 |
| Edgewater | 0.18 | 1.90 | 2.56 | 2.18 | 1.56 | 1.29 | 3.65 | 3.36 | 3.39 | 0.51 | 0.95 | 0.76 | 22.29 |
| Estes Park Fish Hatchery | ..... | ..... | ..... | ..... | ..... | 1.43 | 1.76 | 4.26 | 1.56 | 0.16 | 1.09 | 0.40 | ..... |
| Eureka | 4.83 | 3.32 | 1.58 | 2.81 | 1.07 | 1.00 | 2.42 | 6.24 | 2.80 | 1.23 | 2.29 | 2.63 | 32.22 |
| Fairview | ..... | 1.70 | 2.30 | 3.11 | 2.29 | 1.24 | 1.42 | 8.20 | 3.33 | 1.25 | 4.18 | 5.99 | ..... |
| *Florence | 0.27 | 0.67 | 1.49 | 1.99 | 0.70 | 1.05 | 1.51 | 1.36 | 2.85 | 0.55 | 1.74 | 1.50 | 15.68 |
| Fort Collins | 0.02 | 0.90 | 3.35 | 1.34 | 1.06 | 2.59 | 1.98 | 1.45 | 2.10 | 0.08 | 0.79 | 0.58 | 16.24 |
| Fort Morgan | 0.00 | 0.63 | 2.58 | 0.64 | 1.04 | 3.06 | 1.04 | 1.89 | 1.28 | 0.70 | 0.81 | 0.21 | 13.88 |
| Frances | 2.18 | 2.66 | 3.37 | 3.17 | 1.84 | 2.02 | 1.08 | 6.24 | 2.36 | ..... | 1.50 | 1.07 | ..... |
| *Fraser | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.40 | ..... |
| *Fruita | 1.22 | 0.35 | 0.01 | 1.65 | 0.38 | 0.01 | 1.48 | 1.39 | 1.58 | 0.12 | 0.92 | 1.58 | 10.69 |
| Fry's Ranch | ..... | ..... | ..... | ..... | 1.86 | 2.31 | 0.98 | 2.88 | 1.08 | 0.23 | 1.42 | 0.51 | ..... |
| Garfield | ..... | ..... | ..... | ..... | 1.14 | 0.43 | 2.44 | 3.73 | 3.61 | 1.10 | 2.49 | 2.60 | ..... |
| Garnett | 0.41 | 0.01 | 0.55 | 0.46 | 0.75 | 0.61 | 0.95 | 1.47 | 1.62 | 1.60 | 0.69 | 0.32 | 9.44 |
| Georgetown | 1.37 | 0.30 | 1.02 | 1.63 | 1.69 | 0.98 | 2.57 | 3.44 | 2.14 | 0.09 | 1.20 | 0.44 | 16.87 |
| Gladstone | 7.08 | 7.67 | 2.01 | 5.35 | 1.97 | 0.69 | 3.84 | 4.96 | 3.94 | 2.64 | 3.00 | 7.03 | 50.18 |
| Glen Eyrie | 0.44 | 0.67 | 1.90 | 1.55 | 2.16 | 1.62 | 3.45 | 3.89 | 3.46 | 0.51 | 2.63 | 0.33 | 22.61 |
| Glenwood Springs (near) | 2.81 | 1.06 | 0.34 | 1.78 | ..... | ..... | ..... | ..... | 2.06 | 0.03 | 1.26 | 1.06 | ..... |
| *Grand Junction | 0.66 | 0.34 | 0.02 | 1.14 | 0.45 | 0.10 | 0.50 | 0.86 | 1.13 | 0.04 | 1.05 | 0.67 | 6.96 |
| Grandlake | 3.54 | 1.81 | 1.95 | 5.20 | 1.36 | 0.61 | 0.65 | 2.60 | 0.60 | 0.55 | 1.20 | 2.67 | 22.74 |
| Grand Valley | 2.34 | 1.00 | 0.43 | 1.80 | 0.83 | 0.54 | 1.55 | 2.00 | 1.90 | 0.17 | 1.84 | 2.17 | 16.57 |
| Greeley | T. | 1.61 | 2.44 | 0.82 | 3.39 | 2.91 | 5.14 | 0.86 | 1.42 | 0.27 | 0.74 | 0.53 | 20.13 |
| Gunnison | 1.84 | 1.33 | 0.09 | 0.48 | 0.02 | 0.05 | 1.53 | 1.88 | 2.17 | 0.69 | 0.40 | 1.93 | 12.41 |
| Hamps | 0.41 | 0.56 | 1.24 | 1.52 | 1.77 | 6.20 | 3.94 | 0.82 | 2.34 | 0.85 | 1.15 | 0.78 | 21.58 |
| Hartsel | ..... | ..... | ..... | ..... | ..... | ..... | 1.20 | 4.34 | 2.89 | 0.01 | 0.84 | 0.27 | ..... |
| Hawthorne | T. | 1.19 | 4.37 | 3.11 | 1.80 | 2.90 | 1.16 | 1.93 | 4.66 | 0.44 | 1.66 | 0.91 | 24.13 |
| Hayden | ..... | 2.01 | 0.81 | 2.66 | ..... | 1.46 | 3.73 | 3.62 | 2.32 | 0.35 | 1.72 | ..... | ..... |
| Hermit | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.11 | 2.25 | 1.94 | 2.32 | 1.22 | ..... |
| Hermit Lake | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.67 | 3.00 | ..... |
| Hesperus | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 5.64 | 3.78 | 0.82 | ..... | ..... | ..... |
| Hoehne (near) | 0.40 | 0.24 | 0.93 | 2.53 | 1.56 | 1.49 | 2.10 | 1.31 | 3.12 | 0.25 | 2.10 | 0.73 | 16.76 |
| Holly | 0.18 | T. | 1.47 | 0.68 | 1.22 | 1.25 | 3.73 | 0.99 | 1.34 | 0.76 | 1.72 | 0.16 | 13.50 |
| Holyoke (near) | 0 | 1.00 | 3.04 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Horsefly | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.43 | 3.70 | ..... |
| Idaho Springs | 0.62 | 0.37 | 1.43 | 1.35 | 2.53 | 1.21 | 2.20 | 3.25 | 3.06 | 0.18 | 1.30 | 0.39 | 17.89 |
| Ignacio | ..... | ..... | ..... | ..... | ..... | ..... | 3.10 | 5.67 | 1.21 | 0.40 | ..... | ..... | ..... |
| Ironton | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.62 | 3.57 | ..... |
| Kessler | 0.16 | 1.04 | 3.04 | 3.27 | 2.27 | 2.19 | 1.73 | 2.70 | ..... | ..... | ..... | ..... | ..... |
| Kremmling (near) | 2.57 | 1.52 | 0.94 | 1.64 | 0.64 | 1.13 | 1.37 | 4.00 | 1.06 | 0.07 | 1.04 | 2.63 | 18.61 |
| Lake City | 2.13 | 1.40 | 0.35 | 2.35 | 0.59 | 0.04 | 2.30 | 2.70 | 1.76 | 1.07 | 0.95 | 1.19 | 16.83 |
| Lake Moraine | 1.45 | 1.16 | 0.89 | 1.83 | 1.66 | 1.86 | 3.89 | 7.01 | 3.90 | 0.82 | 2.85 | 1.44 | 28.76 |
| Lamar | 0.25 | 0.24 | 1.45 | 0.80 | 0.77 | 1.13 | 1.59 | 1.11 | 2.32 | 0.53 | 1.45 | 0.38 | 12.02 |
| La Porte | 0.05 | 1.28 | 3.55 | 1.32 | 1.42 | 1.45 | 1.24 | 2.89 | 2.26 | 0.05 | 1.01 | 0.52 | 17.04 |
| *Las Animas | 0.28 | 0.77 | 1.68 | 1.44 | 1.67 | 1.20 | 1.65 | 1.41 | 2.72 | 1.46 | 2.00 | 0.39 | 16.67 |
| La Veta Pass | ..... | ..... | 0.96 | 3.29 | 1.95 | 1.12 | 1.57 | 3.35 | 3.07 | 1.59 | 2.53 | 1.64 | ..... |
| Lay | 1.70 | 0.97 | 0.93 | 1.67 | 0.56 | 1.03 | 1.04 | 1.71 | 1.08 | 1.13 | 1.79 | 1.15 | 15.36 |
| *Leadville | 3.33 | 1.76 | 0.65 | 2.82 | 0.94 | 0.29 | 2.34 | 4.74 | 2.84 | 0.81 | 1.50 | 1.74 | 23.76 |
| Le Roy (near) | 0.01 | 1.30 | 1.80 | 1.01 | 1.67 | 4.15 | 1.05 | 2.14 | 2.81 | 0.56 | 0.91 | 1.08 | 18.49 |
| Limon (near) | 0.35 | 0.82 | 1.52 | 0.75 | 2.32 | 3.55 | 3.17 | 0.81 | 2.23 | 1.20 | 0.70 | 0.24 | 17.66 |
| Longmont | ..... | ..... | ..... | ..... | ..... | 1.50 | 0.73 | 0.77 | 1.85 | 0.22 | 0.78 | 0.78 | ..... |
| Long's Peak (near) | 1.33 | 1.21 | 3.85 | 4.68 | 2.04 | 1.67 | 3.99 | 2.99 | 1.70 | 0.10 | 1.76 | ..... | ..... |
| Lujane | 1.52 | 0.46 | 0.09 | 1.53 | 0.24 | 0.86 | 0.93 | 1.99 | 2.79 | 0.71 | 0.80 | 1.22 | 13.14 |
| Manassa | 0.13 | 0.10 | 0.36 | 0.30 | 0.82 | T. | 0.70 | 1.15 | 0.93 | ..... | 0.37 | 0.25 | ..... |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Colorado*—Continued. | | | | | | | | | | | | | |
| Mancos | 1.19 | 2.12 | 1.63 | 0.82 | 0.40 | 0.20 | 2.41 | 6.15 | 2.38 | 0.54 | 1.53 | 1.92 | 21.29 |
| Marble | 8.37 | 3.72 | 2.14 | 2.63 | 1.15 | 0.97 | 1.83 | 5.13 | 2.30 | 1.32 | 1.97 | 4.13 | 35.66 |
| Marshall Pass | | | | | 0.35 | 0.24 | 2.17 | 2.79 | 2.71 | 1.29 | 1.77 | 1.49 | ..... |
| Meeker | 0.66 | 1.03 | 0.79 | 2.02 | 0.97 | 0.90 | 0.59 | 2.91 | 1.95 | 0.61 | 2.53 | 1.04 | 16.60 |
| Montrose (near) | 1.07 | 0.32 | 0.02 | 1.43 | 0.37 | 0.25 | 1.07 | 2.30 | 1.87 | 0.14 | 0.73 | 1.62 | 11.19 |
| Moraine | | | | | | | | | | | 1.08 | 0.27 | ..... |
| Nast | ..... | ..... | 0.77 | 2.80 | 1.26 | 0.07 | 1.54 | 3.17 | 1.12 | 0.72 | 1.16 | 1.84 | ..... |
| North Lake | | | | | | | | | 4.18 | 1.06 | 3.22 | 2.20 | ..... |
| Pagoda | 1.39 | 1.48 | 0.51 | 3.10 | 0.62 | 1.23 | 1.68 | 2.57 | 2.48 | 0.59 | 1.77 | 2.54 | 19.96 |
| Pagosa Springs | 2.70 | 2.53 | 0.84 | 1.37 | 0.89 | 0.31 | 2.97 | 4.69 | 3.10 | 1.76 | 1.66 | 3.04 | 25.86 |
| Paonia | 3.37 | 1.32 | 0.36 | 2.05 | 0.71 | 0.33 | 0.33 | 1.92 | 1.82 | 0.79 | 1.17 | 2.88 | 17.05 |
| Parshall | 0.89 | 0.55 | 0.61 | 0.83 | 0.47 | 1.16 | 1.32 | 2.54 | 0.81 | 0.32 | 1.05 | 1.17 | 11.72 |
| Pitkin | | | | | | 0.20 | 2.47 | 3.02 | 2.63 | 1.95 | 0.92 | 2.27 | ..... |
| Platoro | | | | | | | | | 2.08 | 1.71 | 3.81 | 4.33 | ..... |
| Platte Canon | 0.21 | 0.67 | 1.29 | 1.84 | 1.98 | 2.61 | 1.94 | 3.71 | 4.86 | 0.35 | | | ..... |
| *Pueblo | 0.24 | 0.63 | 0.79 | 1.52 | 1.15 | 1.78 | 1.21 | 0.77 | 3.93 | 0.25 | 1.53 | 0.72 | 14.52 |
| Rangely | 0.91 | 0.98 | 0.40 | 0.64 | 0.36 | 0.34 | 1.11 | 2.31 | 1.80 | 0.11 | 1.36 | 1.21 | 11.53 |
| Redcliff | ..... | ..... | 1.09 | 2.04 | 0.47 | 1.80 | 3.30 | 3.66 | 1.74 | 1.03 | 1.80 | 2.08 | ..... |
| Rico | | | | | | | | | | | 1.74 | 3.55 | ..... |
| River Portal | 1.51 | 1.04 | T. | 1.97 | T. | 0 | 0.78 | 2.16 | 1.67 | 1.08 | 1.22 | 1.55 | 12.98 |
| Rocky Ford (near) | 0.15 | 0.15 | 0.65 | 0.98 | 0.75 | 1.21 | 0.65 | 2.53 | 1.72 | 0.90 | 1.07 | 0.14 | 10.90 |
| Saguache | | | | | | | | | | | 0.81 | 1.25 | ..... |
| St. Cloud | | | | | | | | | 2.28 | 0.57 | 0.64 | 0.57 | ..... |
| St. Elmo | | | | 1.86 | 1.47 | 0.32 | 3.43 | 3.74 | 3.63 | 1.47 | 2.42 | 2.54 | ..... |
| *Salida | 0.50 | 0.65 | 0.72 | 0.62 | 0.68 | 0.42 | 1.05 | 2.80 | 2.74 | 0.56 | 3.13 | 1.59 | 15.46 |
| San Luis | 0.17 | 0.45 | 0.06 | 0.85 | 1.29 | 0.25 | 1.81 | 3.55 | 1.18 | 1.62 | 0.94 | 0.45 | 12.62 |
| Santa Clara (near) | 0.69 | 1.09 | 1.34 | 2.24 | 2.67 | 3.54 | 2.71 | 3.59 | 7.47 | 1.10 | 2.10 | 0.96 | 29.50 |
| Sapinero | 2.92 | 2.93 | 0.72 | 3.02 | 0.96 | 0.52 | 1.56 | 2.06 | 2.67 | 1.60 | 1.90 | 2.65 | 23.51 |
| Sedgwick | 0.01 | 1.12 | 1.50 | 1.18 | 1.55 | 4.86 | 1.51 | 3.65 | 2.95 | 0.05 | 0.79 | 0.91 | 20.08 |
| Sheridan Lake | 0.15 | 0.10 | 2.62 | 0.29 | 1.73 | 3.81 | 4.65 | 0.41 | 2.36 | 0.55 | 1.51 | 0.26 | 18.44 |
| Sill Mine | 4.78 | 3.45 | 2.85 | 3.43 | 4.53 | 1.81 | 4.69 | ..... | ..... | 0.85 | 2.41 | 2.80 | ..... |
| Silt | | | | | | | 1.70 | 1.00 | 0.53 | 0.17 | 0.70 | ..... | ..... |
| Silverton (1) | 5.07 | 3.40 | 1.91 | 5.23 | 1.75 | 0.00 | 3.96 | 4.52 | 3.34 | ..... | 3.22 | 3.12 | ..... |
| Silverton (2) | 3.83 | 2.21 | 1.56 | 1.51 | 0.45 | 0.23 | 3.27 | 4.51 | 4.60 | 1.39 | 2.46 | 3.28 | 29.30 |
| Spicer (near) | | | | | | | | | | | 1.24 | 0.47 | ..... |
| Spruce Lodge | 3.88 | 3.74 | 4.36 | 4.14 | 2.73 | 1.29 | 2.87 | 5.07 | 2.65 | 1.18 | 1.12 | 3.09 | 36.12 |
| Steamboat Springs | 3.81 | 3.07 | 2.07 | 2.75 | 1.45 | 1.32 | 1.08 | 1.56 | 2.31 | 0.74 | 2.18 | 2.83 | 25.17 |
| Sterling | | | | | | | | | | | | 0.31 | ..... |
| *Stonewall | 0.76 | ..... | 0.54 | 1.63 | 2.22 | 0.30 | 2.10 | 4.89 | 2.84 | 0.68 | 1.89 | 0.59 | ..... |
| Tacoma | 3.33 | 2.17 | 0.63 | 1.13 | T. | 0.38 | 3.89 | 4.26 | 5.06 | 0.98 | 2.44 | 2.65 | 26.92 |
| Tarryall | | | 0.50 | 0.99 | 0.65 | 1.19 | | | | | | | ..... |
| Terminal Dam | 4.10 | 3.48 | 1.08 | 1.28 | 1.12 | 0.92 | 4.48 | 5.68 | 4.71 | 1.48 | 3.02 | 3.78 | 35.13 |
| *Trinidad | | | | | | | | | | 0.22 | 1.21 | 0.34 | ..... |
| Uncompahgre Plateau | | | | | | | | | | | 1.87 | 5.69 | ..... |
| Victor (near) | 0.38 | 0.79 | 1.63 | 0.80 | 0.16 | 0.58 | 4.27 | 4.14 | 3.60 | 1.02 | 1.26 | 0.81 | 19.44 |
| Vilas | 0.18 | T. | 1.21 | 0.22 | 2.00 | 2.95 | 1.91 | 0.99 | 4.59 | 1.29 | 1.12 | 0.65 | 17.11 |
| Wagon Wheel Gap | 1.17 | 0.95 | 0.57 | 1.08 | 0.70 | 0.03 | | | | | 1.92 | 0.94 | ..... |
| Waterdale | 0.05 | 1.62 | 3.89 | 1.77 | 1.26 | 1.41 | 2.07 | 1.68 | 2.66 | 0.32 | 1.13 | 0.34 | 18.20 |
| Westcliffe | 0.63 | 0.40 | 0.08 | 1.33 | 1.02 | 0.07 | 2.27 | 3.22 | 2.30 | 1.10 | 2.26 | 0.74 | 15.42 |
| Westlake | 0.08 | 1.94 | 1.64 | 1.44 | 2.18 | 2.16 | 3.41 | 3.96 | | | | 0.76 | ..... |
| Whitepine | 5.14 | 2.75 | 0.93 | 1.90 | 0.56 | T. | 2.50 | 5.00 | 2.75 | 0.89 | 1.79 | 1.52 | 25.73 |
| Winfield | | | | | | 0.29 | 1.80 | 2.72 | 2.71 | 0.52 | 1.07 | 1.26 | ..... |
| Wortman | | | 3.14 | 4.79 | 3.15 | 0.40 | 6.84 | 9.07 | 3.77 | 2.11 | 1.63 | 3.05 | ..... |
| Wray | 0.07 | 0.60 | 2.34 | 0.53 | 1.06 | 6.40 | 1.75 | 0.30 | 0.95 | 1.11 | 1.92 | 0.63 | 17.66 |
| Yampa | ..... | 0.87 | 0.65 | 1.22 | 0.70 | 0.63 | 1.16 | 3.33 | 1.98 | 0.09 | 1.24 | 1.29 | ..... |
| Yuma | 0.02 | 0.51 | 2.10 | 0.54 | 1.79 | 4.50 | 5.72 | 1.26 | 1.78 | 0.76 | 0.92 | 0.93 | 20.83 |
| *Connecticut.* | | | | | | | | | | | | | |
| Bridgeport | 3.89 | 6.10 | 3.94 | 7.74 | 1.78 | 1.70 | 2.50 | 3.59 | 3.49 | 1.30 | 1.94 | 4.43 | 42.40 |
| Canton | 3.52 | 6.39 | 4.83 | 8.25 | 2.87 | 1.96 | 3.28 | 4.14 | 3.96 | 1.02 | 2.18 | 5.14 | 48.14 |
| Colchester | 3.18 | 8.71 | 4.27 | 6.53 | 2.66 | 2.80 | 1.23 | 3.15 | 5.89 | 1.92 | 2.07 | 4.38 | 46.79 |
| Cream Hill | 5.14 | 6.57 | 5.16 | 4.02 | 3.96 | 2.94 | 2.37 | 4.53 | 4.21 | 0.87 | 2.41 | 2.57 | 44.75 |
| Danielson | 3.99 | 6.35 | 3.83 | 5.28 | 3.63 | 1.62 | 1.32 | 1.69 | 6.11 | 1.36 | 2.08 | 3.80 | 41.06 |
| Falls Village | 4.86 | 6.15 | 3.67 | 5.27 | 4.92 | 2.47 | 2.00 | 3.52 | 3.94 | 1.14 | 2.48 | 3.44 | 43.86 |
| *Hartford | 2.80 | 5.47 | 3.64 | 7.21 | 1.99 | 2.23 | 1.59 | 3.35 | 3.83 | 1.40 | 2.01 | 2.83 | 38.35 |
| Hawleyville | 3.36 | 7.56 | 4.54 | 7.69 | 2.67 | 2.51 | 2.21 | 4.91 | 3.74 | 1.16 | 2.10 | 3.73 | 46.18 |
| Lake Konomoc | 3.27 | 6.75 | 4.05 | 5.64 | 2.77 | 2.21 | 1.36 | 3.12 | 5.34 | 1.60 | 2.38 | 4.88 | 43.37 |
| *New Haven | 3.38 | 6.98 | 4.20 | 6.66 | 2.19 | 3.47 | 1.42 | 3.49 | 3.93 | 1.76 | 1.51 | 4.70 | 43.69 |
| New London | 3.59 | 7.18 | 4.05 | 6.24 | 2.90 | 2.80 | 2.34 | 2.95 | 5.04 | 1.67 | 3.29 | 2.98 | 45.03 |
| North Grosvenor Dale | 2.82 | 5.41 | 3.07 | 5.41 | 2.57 | 2.31 | 1.40 | 2.35 | 4.40 | 1.15 | 1.73 | 2.71 | 35.33 |
| Norwalk | 3.69 | 5.20 | 3.65 | 7.80 | 2.35 | 1.68 | 1.96 | 6.23 | 3.52 | 0.97 | 1.76 | 3.58 | 42.30 |
| Southington | 2.80 | 5.48 | 3.70 | 7.20 | 2.40 | 4.15 | 2.50 | 3.60 | 3.95 | 1.50 | 2.95 | 3.75 | 43.98 |
| South Manchester | 2.13 | ..... | 3.94 | 4.59 | 1.93 | ..... | 1.03 | 2.78 | 3.87 | 1.63 | 1.79 | 2.90 | ..... |
| Storrs | 2.77 | 6.95 | 3.99 | 4.38 | 3.89 | 2.02 | 0.84 | 2.01 | 5.32 | ..... | ..... | 3.82 | ..... |
| Torrington | 3.78 | 5.80 | 3.68 | 7.49 | 3.09 | 2.34 | ..... | 3.16 | 3.91 | 1.38 | 2.90 | 2.79 | ..... |
| Voluntown | 3.42 | 7.28 | 3.67 | 5.07 | 2.24 | 1.35 | 1.04 | 1.25 | 3.79 | 1.67 | 2.61 | 3.45 | 36.84 |
| Wallingford | 2.93 | 5.89 | 4.61 | 7.13 | 1.90 | 2.08 | 1.52 | 4.40 | 4.96 | 1.32 | 2.39 | 4.99 | 44.12 |
| Waterbury | 3.83 | 6.15 | 4.36 | 7.97 | 2.83 | 3.11 | 1.56 | 3.47 | 4.51 | 1.17 | 1.89 | 4.83 | 45.68 |
| West Simsbury | 3.26 | 5.81 | 4.42 | 7.52 | 2.40 | 1.58 | 2.15 | 4.05 | 4.07 | 1.48 | 1.99 | 4.00 | 42.73 |
| *Delaware.* | | | | | | | | | | | | | |
| Delaware City | 1.84 | 2.65 | ..... | 2.20 | 2.65 | 3.51 | 0.62 | 1.61 | 2.40 | 0.73 | 1.67 | 3.31 | ..... |
| Dover | 3.58 | 3.50 | 3.21 | 4.16 | 2.47 | 5.04 | 3.85 | 2.83 | 3.55 | 1.37 | 2.81 | 4.84 | 41.21 |
| Milford | 2.85 | 4.98 | 3.78 | 4.93 | 5.18 | 4.65 | 2.64 | 2.52 | 3.22 | 1.50 | 2.22 | 5.19 | 43.66 |
| Millsboro | 3.11 | 3.59 | 3.90 | 5.70 | 4.99 | 4.20 | 1.58 | 5.16 | 3.02 | 1.18 | 2.11 | 3.35 | 41.89 |
| Seaford | 2.60 | 2.74 | 4.40 | 4.52 | 4.70 | 6.96 | 1.87 | 2.73 | 2.51 | 1.33 | 1.81 | 2.59 | 38.76 |
| *District of Columbia.* | | | | | | | | | | | | | |
| *Washington | 2.84 | 3.11 | 4.76 | 2.69 | 3.77 | 3.82 | 1.80 | 2.27 | 3.42 | 0.79 | 0.89 | 3.39 | 33.55 |
| *Florida.* | | | | | | | | | | | | | |
| Apalachicola | 1.11 | 3.01 | 4.52 | 1.76 | 4.86 | 5.34 | 14.66 | 4.58 | 4.86 | 1.19 | 1.15 | 6.44 | 53.48 |
| *Arcadia | 1.06 | 0.73 | 1.53 | 2.76 | 7.58 | 7.90 | 9.34 | 11.75 | 2.05 | 1.96 | 0.13 | 1.85 | 48.64 |
| Archer | 2.70 | 1.56 | ..... | ..... | ..... | ..... | 18.05 | 9.91 | ..... | ..... | ..... | 4.42 | ..... |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Florida*—Continued. | | | | | | | | | | | | | |
| Avon Park | 0.37 | 2.05 | 2.03 | 2.84 | 6.45 | 13.24 | 12.95 | 13.91 | 2.42 | 0.79 | 0.96 | 1.58 | 59.59 |
| Bartow | 0.94 | 1.29 | 5.42 | 0.79 | 4.45 | 8.44 | 13.31 | 14.38 | 4.01 | 1.92 | 0.80 | 2.41 | 58.16 |
| Blountstown | | | 3.03 | 1.96 | 5.15 | 6.61 | 10.52 | 4.35 | 2.32 | 1.00 | 0.51 | 6.41 | ..... |
| Bonifay | 1.45 | ..... | 3.51 | 6.10 | 2.78 | 4.37 | 6.85 | 4.26 | 4.50 | 1.51 | 0.77 | 6.47 | ..... |
| Brooksville | 1.19 | 1.62 | 1.40 | 1.92 | 4.79 | 6.04 | 19.89 | 8.95 | 2.09 | 0.90 | 0.98 | 2.30 | 52.07 |
| Carrabelle | 0.92 | 2.37 | ..... | ..... | 4.32 | 1.65 | 16.65 | 5.07 | 4.94 | 0.00 | 1.70 | ..... | ..... |
| Cedar Keys | 3.02 | 1.10 | 3.07 | 0.30 | 0.72 | 2.23 | 25.57 | 3.79 | 1.45 | 0.00 | 0.00 | 3.23 | 44.48 |
| Clermont | 1.60 | 3.58 | 0.45 | 2.53 | 3.94 | 12.11 | 17.01 | 8.89 | 2.33 | 0.20 | 1.05 | 0.84 | 54.53 |
| De Funiak Springs | 0.80 | 5.15 | 3.03 | 6.01 | 4.53 | 5.13 | 6.95 | 9.88 | 3.79 | 3.18 | 0.45 | 7.91 | 56.81 |
| De Land | 1.75 | 1.97 | 3.19 | 2.30 | 4.61 | 3.65 | 18.94 | 11.34 | 3.30 | 0.17 | 1.07 | 1.15 | 53.44 |
| Eustis | 2.29 | 2.10 | 3.89 | 1.76 | 4.29 | 5.96 | 20.00 | 8.08 | 0.94 | 0.20 | 0.73 | 1.52 | 54.76 |
| Federal Point | 2.42 | 2.04 | 3.40 | 1.14 | 4.34 | 2.41 | 6.81 | 8.68 | 7.09 | 0.66 | 1.15 | 1.35 | 41.49 |
| Fenholloway | 2.07 | 1.75 | 7.30 | ..... | 0.90 | 5.20 | ..... | 1.75 | 4.25 | 0.20 | ..... | 2.75 | ..... |
| Fernandina | 1.56 | 1.87 | 3.92 | 1.44 | 2.00 | 5.37 | 4.85 | 3.02 | 6.31 | 0.20 | 3.27 | 2.90 | 36.71 |
| Fort Meade | 6.89 | 1.38 | 1.90 | 1.62 | 6.40 | 12.18 | 14.68 | 12.94 | 3.94 | 2.48 | 0.39 | 2.20 | 61.00 |
| Fort Myers | 1.13 | 0.52 | 0.17 | 4.48 | 4.35 | 10.12 | 5.76 | 14.59 | 5.07 | 3.88 | 0.38 | 1.10 | 51.55 |
| Fort Pierce | 4.63 | 0.17 | 2.60 | 3.60 | 5.93 | 5.77 | 9.49 | 6.25 | 7.39 | 2.25 | 2.93 | 2.20 | 53.21 |
| *Gainesville | 3.15 | 1.71 | 1.88 | 1.02 | 1.83 | 4.28 | 16.41 | 4.84 | 1.48 | 1.00 | 0.30 | 3.77 | 41.67 |
| Grasmere | 1.34 | 1.96 | 0.94 | 1.74 | 3.98 | 5.56 | 16.51 | 8.68 | 3.33 | 0.47 | 1.32 | 1.18 | 46.71 |
| Hilliard | 0.74 | 4.03 | 3.12 | 1.11 | 5.61 | 7.63 | 10.40 | 5.78 | 2.17 | 0.40 | 1.42 | 0.14 | 42.55 |
| Huntington | 0.80 | 1.62 | 2.32 | 0.87 | ..... | ..... | ..... | ..... | 2.63 | 0.04 | 1.60 | 1.18 | ..... |
| Hypoluxo | 4.38 | 1.22 | 2.36 | 9.11 | 5.23 | 3.79 | 9.31 | 7.01 | 18.16 | 10.03 | 0.32 | 1.22 | 72.74 |
| Inverness | 1.45 | 1.80 | ..... | 1.56 | 5.42 | 4.36 | 22.57 | 9.05 | 6.96 | 1.63 | 0.22 | 2.83 | ..... |
| *Jacksonville | 1.17 | 1.51 | 4.24 | 1.80 | 2.26 | 8.93 | 8.43 | 5.18 | 4.98 | 0.08 | 0.99 | 2.30 | 41.87 |
| Jasper | ..... | ..... | 2.05 | 0.20 | 5.13 | 5.90 | 5.48 | 4.10 | 2.45 | 0.00 | 0.40 | ..... | ..... |
| Johnstown | 0.53 | 0.94 | 4.37 | 1.54 | 3.18 | 7.16 | 10.04 | 5.34 | 1.45 | 0.26 | 1.15 | 2.51 | 38.47 |
| *Jupiter | 5.98 | 0.41 | 2.69 | 4.97 | 8.61 | 4.35 | 6.61 | 4.53 | 7.59 | 5.57 | 0.98 | 0.99 | 53.28 |
| *Key West | 1.82 | 0.10 | 0.35 | 3.01 | 6.70 | 9.71 | 1.21 | 8.56 | 6.35 | 16.87 | 0.06 | 1.61 | 56.35 |
| Kissimmee | 0.86 | 0.63 | 2.06 | 3.46 | 6.87 | 4.84 | 11.28 | 9.53 | 2.93 | 1.22 | 1.49 | 1.43 | 46.60 |
| *Lake City | 1.00 | 1.86 | 5.10 | 1.82 | 2.80 | 8.06 | 15.05 | 7.23 | 2.35 | 0.26 | 0.50 | 3.65 | 49.68 |
| Live Oak | ..... | ..... | 4.97 | 0.08 | 1.92 | ..... | ..... | ..... | ..... | ..... | ..... | 3.24 | ..... |
| Macclenny | 0.34 | 1.99 | 6.44 | 1.72 | 3.21 | 7.29 | ..... | 6.96 | 1.63 | 0.00 | 0.88 | 3.02 | ..... |
| *Madison | 1.10 | 1.99 | 2.81 | 1.70 | 1.62 | 4.74 | 18.04 | 5.07 | 2.11 | 0.39 | 0.27 | 3.60 | 43.44 |
| Malabar | 2.35 | 0.43 | 3.70 | 2.88 | 5.66 | 2.88 | 7.34 | 6.04 | 3.92 | 2.41 | 1.28 | 1.38 | 40.27 |
| Manatee | 1.12 | 1.30 | 1.20 | 1.16 | 4.14 | 14.26 | 12.40 | 11.34 | 4.24 | 1.14 | 0.56 | 2.44 | 55.30 |
| *Marianna | 0.47 | 3.08 | 3.56 | 4.58 | 2.52 | 3.90 | 9.21 | 3.87 | 3.62 | ..... | ..... | ..... | ..... |
| Merritts Island | 2.70 | 0.35 | 2.43 | 3.90 | 3.96 | 2.44 | 8.50 | 6.38 | 4.97 | 2.59 | 0.80 | 1.03 | 40.06 |
| Miami | 5.45 | T. | 0.83 | 8.29 | 7.97 | 3.61 | 4.38 | 9.44 | 13.93 | 21.08 | 0.60 | 1.20 | 76.78 |
| Middleburg | 1.75 | ..... | ..... | ..... | ..... | 8.53 | 10.17 | 6.76 | ..... | 0.00 | 1.88 | 2.05 | ..... |
| Molino | 1.50 | 4.52 | 5.31 | 11.72 | 5.20 | 13.50 | 7.31 | 6.69 | 4.25 | 3.97 | 1.62 | 9.81 | 75.40 |
| Monticello | 0.64 | 3.03 | 3.26 | 2.97 | 2.28 | 9.39 | 9.16 | 5.90 | 4.57 | 1.42 | 0.45 | 4.00 | 47.07 |
| Mount Pleasant | 0.35 | 3.56 | 4.08 | 3.38 | 3.39 | 4.37 | 10.01 | ..... | 3.38 | 0.85 | 0.48 | ..... | ..... |
| Newport | 0.50 | 2.70 | 3.85 | 3.90 | 4.42 | 1.89 | 6.25 | 3.23 | 1.66 | 0.00 | T. | 6.19 | 34.59 |
| New Smyrna | 2.00 | 0.90 | 3.32 | 2.49 | 3.55 | 1.72 | 15.32 | 10.31 | 6.68 | 0.47 | 2.08 | 1.29 | 50.13 |
| Ocala | 1.27 | 1.71 | 2.64 | 1.87 | 2.37 | 5.91 | 10.62 | 9.72 | 2.50 | T. | 0.45 | 1.97 | 41.03 |
| Orange City | 1.25 | 0.89 | 3.39 | 1.65 | 5.40 | 3.96 | 18.25 | 6.53 | 2.07 | 0.11 | 2.89 | 1.28 | 47.67 |
| Orlando | 1.31 | 1.14 | 1.40 | 2.17 | 2.41 | 3.13 | 12.71 | 8.34 | 3.41 | 1.30 | 0.65 | 0.67 | 38.64 |
| *Pensacola | 1.71 | 4.40 | 2.73 | 4.17 | 3.87 | 6.03 | 4.54 | 11.77 | 2.25 | 8.13 | 0.88 | 8.55 | 59.03 |
| Plant City | 1.43 | 0.76 | 2.80 | 1.35 | 2.91 | 4.95 | 7.09 | 11.56 | 0.75 | 0.62 | 0.52 | 1.62 | 36.36 |
| Rockledge | 1.53 | 0.30 | 2.15 | 3.36 | 3.88 | 1.70 | 3.62 | 7.15 | 5.59 | 2.22 | 1.19 | 0.42 | 33.11 |
| Rockwell | 1.76 | 1.35 | 1.91 | 1.03 | 1.25 | 5.06 | 26.00 | 6.15 | 1.55 | 0.07 | 0.00 | ..... | ..... |
| St. Andrew | 1.87 | 4.03 | 3.79 | 2.65 | 7.81 | 6.26 | 7.70 | 4.93 | 4.76 | 3.42 | 0.46 | 7.07 | 54.75 |
| St. Augustine | 1.65 | 2.82 | 4.53 | 2.26 | 1.27 | 2.69 | 8.04 | 5.77 | 4.88 | 0.80 | 3.36 | 1.26 | 39.33 |
| *Sand Key | 0.89 | 0.91 | 0.15 | 1.29 | 4.25 | 4.76 | 2.65 | 3.67 | 4.04 | ..... | ..... | ..... | ..... |
| St. Leo | 1.75 | 2.17 | 1.53 | 1.71 | 8.04 | 10.10 | 14.17 | 7.33 | 2.58 | 0.62 | 0.61 | 2.66 | 53.27 |
| Satsuma Heights | 1.45 | 1.45 | 2.73 | 1.19 | 3.61 | 1.75 | 9.05 | 6.37 | 4.35 | 0.28 | 1.29 | 1.38 | 34.90 |
| Switzerland | 2.66 | 1.63 | 6.96 | 2.96 | 2.76 | 6.17 | 9.04 | 7.71 | 7.29 | 0.19 | 0.67 | 1.65 | 49.69 |
| *Tallahassee | 1.32 | 3.61 | 3.36 | 4.24 | 2.66 | 5.22 | 5.15 | 6.03 | 4.72 | 0.73 | 0.48 | 4.65 | 42.17 |
| *Tampa | 1.78 | 1.01 | 1.26 | 1.25 | 2.73 | 11.31 | 10.47 | 13.01 | 2.30 | 0.44 | 0.56 | 1.06 | 47.18 |
| Tarpon Springs | 2.08 | 1.50 | 1.21 | 1.32 | 2.74 | 18.10 | 17.03 | 9.97 | 4.28 | 1.06 | 0.23 | 2.26 | 61.78 |
| Titusville | 1.67 | 1.14 | ..... | ..... | ..... | ..... | 8.25 | 7.35 | 6.15 | 0.35 | 0.89 | 0.65 | ..... |
| Wausau | 0.85 | 5.15 | 3.65 | 6.15 | 4.75 | 6.27 | 6.00 | 3.82 | 2.77 | 0.00 | 0.08 | 7.45 | 46.94 |
| *Georgia.* | | | | | | | | | | | | | |
| *Abbeville | 1.06 | 3.50 | 7.17 | 3.17 | 3.74 | 2.49 | 3.71 | 4.99 | 6.61 | 0.12 | 0.56 | 3.61 | 40.73 |
| Adairsville | 3.27 | 7.55 | 9.88 | 4.83 | 3.48 | 8.33 | 2.94 | 6.89 | 2.31 | 2.46 | 0.90 | 4.89 | 57.73 |
| *Albany | 1.40 | 4.12 | 5.49 | 4.80 | 4.45 | 3.67 | 6.63 | 2.49 | 4.65 | 0.20 | 0.28 | 3.67 | 41.85 |
| *Allapaha | 0.35 | 3.20 | 3.86 | 2.80 | 3.01 | 3.92 | 3.31 | 3.69 | 6.61 | 0.80 | 0.47 | 2.41 | 34.43 |
| *Americus | 0.36 | 3.63 | 5.98 | 3.47 | 3.19 | 4.68 | 4.79 | 2.90 | 2.71 | 0.25 | ..... | ..... | ..... |
| *Athens | 2.20 | 6.84 | 6.05 | 3.20 | 5.56 | 5.95 | 7.56 | 1.90 | 4.03 | 3.30 | 1.56 | 3.42 | 51.57 |
| *Atlanta | 1.82 | 8.07 | 9.09 | 5.77 | 2.11 | 4.43 | 2.52 | 6.75 | 1.65 | 1.63 | 1.48 | 3.51 | 48.83 |
| *Augusta | 0.99 | 6.49 | 5.64 | 1.40 | 3.43 | 5.19 | 2.63 | 4.90 | 1.30 | 2.73 | 0.62 | 1.98 | 37.30 |
| *Bainbridge | 1.85 | 3.25 | 3.87 | 3.94 | 2.23 | 3.90 | 7.44 | 3.85 | 2.76 | 0.44 | 0.34 | 6.06 | 39.93 |
| Barnesville | ..... | ..... | ..... | 3.75 | 5.13 | 3.41 | 3.54 | 1.54 | 2.35 | 0.78 | 0.75 | 3.02 | ..... |
| Blakely | 0.48 | 7.93 | 1.39 | 4.79 | 3.45 | 2.40 | 9.28 | 1.64 | 3.54 | 1.03 | 0.24 | 3.71 | 39.88 |
| Brunswick | 2.19 | 2.45 | 4.51 | 4.10 | ..... | 5.94 | 6.37 | 5.17 | 6.21 | ..... | ..... | ..... | ..... |
| *Butler | 0.91 | 7.25 | 10.14 | 3.43 | 5.72 | 4.17 | 7.99 | 7.34 | 9.51 | 0.30 | 0.66 | 2.85 | 60.27 |
| *Camak | 0.92 | 5.55 | 7.97 | 1.34 | 3.09 | 2.64 | 4.52 | 3.41 | 3.41 | 3.41 | 0.95 | 2.35 | 39.56 |
| *Canton | 4.46 | 7.24 | 10.45 | 6.30 | 6.12 | 5.83 | 5.32 | ..... | 0.96 | ..... | ..... | ..... | ..... |
| *Carlton | 2.63 | 7.33 | 6.08 | 2.42 | 4.52 | 7.68 | 4.04 | 2.83 | 4.07 | 3.40 | 1.30 | 2.48 | 48.78 |
| Carrollton | 2.72 | 7.80 | 12.49 | 6.03 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Clayton | 4.92 | 8.68 | 9.01 | 8.82 | 10.60 | 14.65 | 3.29 | 5.20 | 6.05 | 3.26 | 1.12 | 7.54 | 83.34 |
| *Columbus | 1.29 | 9.59 | 11.34 | 4.03 | 3.98 | 5.58 | 9.26 | 1.34 | 2.57 | 0.93 | 1.11 | 2.75 | 53.77 |
| *Covington | 1.57 | 7.17 | 8.53 | 3.69 | 6.07 | 6.86 | 6.24 | 8.36 | 1.46 | 1.64 | 1.57 | 3.64 | 56.80 |
| Cuthbert | 1.05 | 5.23 | 5.53 | 6.20 | 1.51 | 3.12 | 7.58 | 4.37 | 1.50 | 0.57 | 0.21 | 4.74 | 41.61 |
| *Dahlonega | 4.78 | 8.42 | 9.66 | 3.98 | 6.76 | 6.44 | 4.84 | 5.26 | 4.53 | 3.69 | 1.74 | 5.25 | 65.35 |
| Diamond | 4.22 | 11.59 | 12.73 | 6.54 | 7.84 | 9.32 | 4.85 | 3.45 | 3.07 | 3.79 | 1.08 | 6.79 | 75.27 |
| Douglas | 0.34 | 3.00 | 4.07 | 3.19 | 4.04 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *Dublin | 3.30 | 4.76 | 8.40 | 2.08 | 4.30 | 2.46 | 9.20 | 3.62 | 3.56 | 1.16 | 1.32 | 3.44 | 47.60 |
| Dudley | 2.53 | 3.09 | 7.00 | 1.46 | 4.54 | 2.50 | 8.97 | 1.68 | 2.89 | 0.69 | 0.90 | 2.41 | 38.66 |
| *Eastman | 1.67 | 2.45 | 11.04 | 2.44 | 2.82 | 2.13 | 4.52 | 8.43 | 3.73 | 0.44 | 0.78 | 3.37 | 43.92 |
| Eatonton | 1.03 | 7.56 | 8.03 | 2.01 | 7.81 | 4.44 | 5.92 | 10.10 | 1.56 | 1.26 | 0.73 | 2.37 | 52.82 |
| Elberton | 3.08 | 7.73 | 6.56 | 2.10 | 7.08 | 6.26 | 3.87 | 3.34 | 3.72 | 3.22 | 1.20 | 2.91 | 51.07 |
| Experiment | 0.69 | 6.54 | 7.80 | 2.16 | 4.16 | 7.31 | 2.66 | 3.33 | 1.03 | 2.32 | 0.86 | 2.65 | 41.51 |
| Fitzgerald | 0.54 | 2.37 | 6.41 | 3.70 | 2.32 | 3.32 | 4.44 | 2.05 | 1.98 | 0.25 | ..... | ..... | ..... |
| Forsyth | 1.78 | 5.25 | 8.25 | 3.55 | 6.94 | 10.98 | 4.96 | 3.32 | 4.10 | 1.71 | 1.32 | 3.20 | 55.36 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Georgia*—Continued. | | | | | | | | | | | | | |
| *Fort Gaines | 1.09 | 5.64 | 8.55 | 6.15 | 3.53 | 2.30 | 5.55 | 5.05 | 1.12 | 0.57 | 0.25 | 4.63 | 44.43 |
| *Gainesville | 3.32 | 7.96 | 7.75 | 3.65 | 6.02 | 4.64 | 3.79 | 5.50 | 3.40 | 3.25 | 1.37 | 4.77 | 55.42 |
| Gillsville | | 7.07 | 6.94 | 3.30 | 6.69 | 4.55 | 2.40 | 5.30 | 3.48 | 3.08 | 1.63 | 5.05 | |
| Glennville | 0.31 | 2.43 | 6.36 | 1.65 | 2.88 | 4.74 | 6.39 | 6.79 | 4.83 | 0.62 | 1.23 | 2.90 | 41.13 |
| Gore | 3.48 | 8.87 | 12.85 | 6.28 | 3.75 | 11.45 | 2.71 | 2.94 | 1.87 | 3.44 | 1.34 | 6.15 | 65.13 |
| *Greensboro | 2.10 | 6.73 | 8.09 | 2.13 | 5.09 | 4.48 | 6.58 | 4.04 | 2.78 | 2.39 | 1.89 | 2.83 | 49.13 |
| *Griffin | 0.84 | 8.50 | 12.03 | 2.56 | 4.72 | 6.54 | 3.49 | 3.29 | 2.01 | 2.35 | 1.05 | 3.03 | 50.41 |
| Harrison | 2.83 | 5.00 | 7.70 | 2.02 | 4.90 | 6.39 | 5.20 | 4.08 | 4.20 | 0.67 | 0.79 | 2.85 | 46.63 |
| Hartwell | 3.73 | 6.78 | 6.34 | 2.89 | 4.13 | 7.03 | 7.26 | 3.32 | 5.91 | 2.11 | 1.81 | 4.08 | 55.19 |
| *Hawkinsville | 4.57 | 4.23 | 8.38 | 1.98 | 2.65 | 3.55 | 2.34 | 4.40 | 2.81 | 0.04 | 1.24 | 2.52 | 38.71 |
| Helena | 1.06 | 3.48 | 7.99 | 2.47 | 3.69 | 1.86 | 2.60 | 2.72 | 1.06 | 0.27 | 0.38 | 2.54 | 30.12 |
| La Fayette | | | | 5.68 | 3.39 | 13.10 | 4.54 | 6.80 | 2.15 | 4.17 | 1.07 | 5.92 | |
| Lisbon | 2.36 | 6.66 | 6.12 | 2.76 | 2.81 | 3.58 | 5.58 | 2.26 | 2.84 | 3.68 | 0.97 | 3.60 | 43.22 |
| Lost Mountain | 3.69 | 8.11 | 8.02 | 5.41 | 5.76 | 6.19 | 2.58 | 4.16 | 0.66 | 1.71 | 1.60 | 5.06 | 52.95 |
| Louisville | 1.72 | 5.23 | 6.99 | 2.22 | 3.77 | 3.58 | 8.38 | 5.36 | 1.80 | 1.32 | 0.73 | 2.66 | 43.76 |
| *Lumber City | | | | | | | 2.79 | 4.93 | 3.69 | 0.36 | 0.50 | 2.31 | |
| Lumpkin | 1.07 | 6.47 | 8.14 | 5.42 | 2.53 | 3.41 | 3.72 | 2.18 | 2.36 | 0.59 | 1.27 | 3.92 | 41.08 |
| *Macon | 1.54 | 6.70 | 6.85 | 4.30 | 3.54 | 2.49 | 4.54 | 2.29 | 2.47 | 0.86 | 0.61 | 2.14 | 38.33 |
| Marshallville | 3.01 | 8.65 | 8.93 | 3.69 | 4.87 | 2.79 | 2.65 | 3.28 | 3.78 | 0.13 | 0.67 | 2.60 | 45.05 |
| Mauzy | 0.34 | 2.56 | 4.28 | 3.88 | 1.58 | 3.72 | 5.80 | 3.90 | 2.29 | 1.13 | 0.54 | 3.88 | 33.90 |
| *Milledgeville | 1.07 | 6.56 | 7.70 | 2.34 | 4.21 | 3.43 | 4.93 | 2.52 | 1.42 | 1.42 | 0.68 | 2.78 | 39.06 |
| *Millen | 1.35 | 4.60 | 5.50 | 2.35 | 5.42 | 6.99 | 4.48 | 2.30 | 4.18 | 1.00 | 0.70 | 3.00 | 41.87 |
| *Montezuma | 1.94 | 4.40 | 10.38 | 2.96 | 4.46 | 1.86 | 3.30 | 1.56 | 4.00 | 0.22 | 1.12 | 2.54 | 38.74 |
| *Monticello | 1.66 | 8.62 | 8.82 | 3.28 | 7.24 | 5.59 | 5.67 | 5.00 | 2.01 | 2.15 | 0.76 | 3.06 | 53.86 |
| Morgan | 1.23 | 3.76 | 6.26 | 5.96 | 2.26 | 3.40 | 7.58 | 2.20 | 1.33 | 0.14 | 0.05 | 2.07 | 36.24 |
| *Newnan | 2.55 | 8.48 | 11.38 | 4.35 | 7.00 | 4.07 | 3.58 | 11.44 | 1.35 | 1.70 | 1.23 | 3.38 | 60.51 |
| *Oakdale | 1.42 | 8.89 | 9.01 | 6.70 | 2.54 | 4.09 | 2.88 | 6.18 | 1.55 | 2.20 | 1.30 | 4.35 | 51.11 |
| Point Peter | 2.77 | 7.86 | 6.95 | 3.30 | 3.21 | 6.74 | 5.37 | 1.86 | 3.90 | 2.60 | 1.40 | 3.22 | 49.18 |
| Poulan | 0.36 | 3.09 | 5.02 | 3.71 | 1.86 | 4.02 | 7.66 | 3.68 | 1.29 | 0.21 | 0.44 | 3.52 | 34.86 |
| Putnam | 2.10 | 6.74 | 10.10 | 3.55 | | | 8.35 | 1.12 | 6.50 | 0.25 | 1.60 | 3.33 | |
| *Quitman | 0.62 | 2.61 | 3.75 | 3.49 | 3.48 | 8.19 | 11.12 | 6.97 | 2.02 | 0.36 | 0.70 | 3.45 | 46.76 |
| Ramsey | 4.56 | 8.71 | 10.58 | 6.86 | 5.09 | 9.72 | 2.66 | 5.07 | 3.94 | 2.76 | 1.18 | 3.76 | 64.89 |
| *Resaca | 4.23 | 9.38 | 12.51 | 5.72 | 3.65 | 8.45 | 2.32 | 4.33 | 1.40 | 2.46 | 0.86 | 4.95 | 60.25 |
| *Rome | 4.48 | 8.56 | 10.97 | 5.38 | 6.70 | 7.24 | 7.22 | 7.67 | 0.68 | 3.08 | 1.12 | 5.16 | 68.26 |
| St. George | | 2.99 | 4.11 | 1.82 | 4.14 | 7.32 | | | 1.97 | 0.16 | | | |
| St. Marys | 1.04 | 2.35 | 3.01 | 1.03 | 2.52 | 5.60 | 5.23 | 4.62 | 5.13 | 0.15 | 1.69 | 2.87 | 35.84 |
| *Savannah | 0.65 | 1.33 | 5.38 | 1.90 | 4.29 | 2.22 | 6.43 | 8.34 | 4.90 | 0.93 | 0.11 | 1.82 | 38.30 |
| Statesboro | 0.21 | 4.34 | 6.78 | 2.59 | 3.06 | 3.95 | 5.96 | 4.66 | 3.97 | 1.28 | 0.66 | 2.89 | 40.35 |
| Talbotton | 0.84 | 7.58 | 10.15 | 3.51 | | | | | | | 0.81 | 3.43 | |
| *Tallapoosa | 0.90 | 7.38 | 10.18 | 5.88 | 5.66 | 5.27 | 8.68 | 6.07 | 2.90 | 2.69 | 2.18 | 3.25 | 61.04 |
| *Thomasville | 0.51 | 2.39 | 3.13 | 4.72 | 2.03 | 11.10 | 6.47 | 6.96 | 6.07 | 0.84 | 1.39 | 4.19 | 49.80 |
| *Toccoa | 4.34 | 7.23 | 9.11 | 2.85 | 9.02 | 6.10 | 2.94 | 4.09 | 6.16 | 2.26 | 1.61 | 6.09 | 61.80 |
| *Valdosta | 0.60 | 2.00 | 6.60 | 3.15 | 2.41 | 3.70 | 3.35 | 6.05 | 5.69 | 0.32 | 0.20 | 2.99 | 37.06 |
| Valona | 0.90 | 2.01 | 3.08 | 2.98 | 1.40 | 3.87 | 8.28 | 15.34 | 5.38 | 0.60 | 0.90 | 2.33 | 42.07 |
| *Washington | 2.19 | 5.70 | 8.18 | 3.05 | 3.77 | 4.10 | 8.45 | 2.76 | 1.80 | 2.21 | 1.40 | 3.73 | 46.84 |
| *Waycross | 0.81 | 1.98 | 4.04 | 2.81 | 1.80 | 5.38 | 6.89 | 5.31 | 2.47 | 2.20 | 1.02 | 2.39 | 37.10 |
| *Waynesboro | 1.13 | 4.97 | 7.04 | 2.51 | 3.34 | 9.51 | 9.08 | 3.64 | 3.20 | 1.20 | 0.29 | 2.35 | 48.36 |
| *West Point | 1.18 | 7.64 | 10.00 | 4.75 | 7.80 | 5.52 | 3.80 | 2.91 | 0.24 | 1.95 | 1.54 | 4.26 | 51.59 |
| *Woodbury | 1.09 | 6.58 | 10.87 | 3.97 | 6.13 | 6.31 | 5.18 | 5.01 | 2.65 | 1.41 | 1.35 | 2.98 | 53.53 |
| *Idaho.* | | | | | | | | | | | | | |
| Albion | | 1.64 | 1.32 | 0.52 | 1.91 | 0.38 | 0.51 | 1.14 | 1.24 | 1.39 | 3.11 | 0.86 | |
| Almo | 4.40 | 0.97 | 1.03 | 0.20 | 1.27 | 0.10 | 1.11 | 2.02 | 0.86 | 1.50 | 2.78 | 0.75 | 16.99 |
| American Falls | 4.69 | 2.21 | 1.15 | | | | | | 1.79 | 0.88 | 3.07 | | |
| Atlanta | | | | | | | | | 3.00 | | | | |
| Big Creek | 9.15 | 6.95 | 1.80 | 1.80 | | | | | | | | | |
| Blackfoot | 3.03 | 1.44 | 1.14 | 0.12 | 1.86 | 0.55 | 0.89 | 1.40 | 1.70 | 0.99 | 3.00 | 1.96 | 18.08 |
| Blackfoot Dam | | | | | | | | 1.94 | 2.61 | 1.04 | 4.13 | 1.18 | |
| Blanche | | 2.30 | 1.10 | 0.00 | 1.15 | 0.23 | 0.12 | 0.10 | 1.15 | 0.39 | | | |
| Bock's Ranch | | | | | | | | | | | 8.19 | 3.19 | |
| Bogus Creek | | 4.15 | 1.61 | 0.58 | 1.47 | 0.84 | 0.17 | 0.10 | 2.34 | 1.98 | 7.16 | | |
| *Boise | 4.33 | 1.92 | 0.64 | 0.15 | 1.00 | 0.78 | 0.03 | 0.01 | 0.51 | 0.73 | 3.41 | 1.55 | 15.06 |
| Bonanza | | | | | 1.41 | 1.06 | 1.48 | | | | | | |
| *Bonners Ferry | 5.34 | 1.85 | 0.18 | 0.37 | 1.60 | 1.47 | 2.25 | 0.13 | 1.41 | 1.43 | 5.28 | 1.93 | 23.24 |
| Boulder Mine | | | | | | | 0.63 | 0.15 | 2.50 | 2.13 | 10.92 | 4.62 | |
| Buhl | 2.59 | 1.31 | 0.33 | 0.03 | 0.83 | 0.34 | 0.08 | 0.15 | 1.52 | | 2.72 | 1.61 | |
| Burke | 10.51 | 6.71 | 2.11 | 2.09 | 2.96 | 2.43 | 4.60 | 0.30 | 3.21 | 2.73 | 13.56 | 2.70 | 53.91 |
| Caldwell | 2.87 | 1.32 | 0.48 | 0.24 | 0.37 | 0.34 | 0.01 | T. | 1.17 | 0.62 | 1.73 | 1.38 | 10.53 |
| Camas | 0.47 | 0.71 | 1.04 | 0.22 | 2.06 | 0.54 | 0.50 | 1.40 | 3.27 | 0.69 | 1.89 | 0.48 | 13.27 |
| Cambridge | 5.20 | 3.86 | 0.56 | 0.10 | 1.11 | 0.26 | 0.80 | 0.00 | 0.68 | 0.96 | 2.25 | 3.67 | 19.45 |
| Chesterfield | 3.36 | 2.12 | 1.67 | 0.38 | 2.67 | 0.52 | 0.98 | 1.34 | 1.83 | | | | |
| Clawson | | | | | 2.12 | 1.53 | 1.35 | 1.42 | 3.80 | 1.32 | 3.03 | 0.58 | |
| Coeur d'Alene | 5.22 | 3.18 | 0.42 | 0.72 | 0.94 | 0.46 | 2.57 | T. | 0.60 | | | | |
| Cottonwood Creek | | | | | | | | | 2.18 | 1.45 | 8.47 | | |
| Crawford | | | | | | | | | | | 3.99 | | |
| Culdesac | 3.25 | 1.75 | 1.86 | 1.16 | 2.27 | 1.22 | 3.82 | T. | 1.52 | 0.97 | 5.44 | 0.19 | 23.45 |
| Dent | 3.56 | 3.40 | 2.33 | 2.40 | 1.68 | 1.18 | 3.46 | T. | 3.03 | 1.60 | 6.92 | 1.57 | 31.13 |
| Driggs | 2.68 | 1.36 | 0.53 | 0.38 | 1.86 | 1.27 | 1.80 | 0.90 | 3.00 | 1.15 | 2.31 | 0.96 | 18.20 |
| Edie | | | | | | 0.39 | 1.29 | 0.85 | 3.47 | 0.66 | 1.24 | 0.42 | |
| Ellerslie | 4.65 | 2.96 | 1.24 | | | | | | | | | | |
| Emmett | 2.82 | | 0.53 | 0.22 | 0.83 | 0.22 | T. | | 1.77 | 0.55 | 2.52 | 1.82 | |
| Forney | 3.88 | 1.61 | 0.86 | 1.92 | 2.56 | 1.30 | 2.74 | 0.78 | 3.19 | 0.62 | 2.28 | 0.78 | 22.52 |
| Garden Valley | | | | | | | | | 2.60 | 0.26 | 10.53 | 6.09 | |
| Garnet | 1.60 | 0.79 | 0.46 | 0.11 | 0.15 | 0.00 | | | | 0.49 | 1.22 | 0.80 | |
| Geneva | 3.72 | 0.72 | 2.25 | 0.82 | 1.54 | 1.33 | 1.36 | 2.01 | 1.40 | 0.14 | 3.46 | 1.52 | 20.27 |
| Gilbert | | | | | | 0.92 | 3.59 | T. | 3.30 | | | | |
| Glenns Ferry | | 1.99 | 0.92 | T. | 0.79 | 0.06 | 0.14 | 0.19 | 1.24 | 0.28 | 4.32 | 1.66 | |
| Gooding | | | | | | | | | 0.78 | 0.50 | 4.72 | 1.56 | |
| Grace | 4.95 | 2.29 | 1.07 | 0.66 | 2.34 | 0.49 | 1.44 | 1.77 | 1.63 | 0.62 | 3.15 | 1.06 | 21.47 |
| Grand Forks | | | | | | 2.30 | 3.42 | 0.35 | 3.42 | 2.29 | 20.86 | 2.63 | |
| Grandview | | | | | | | 0.11 | T. | 0.98 | | 1.02 | 0.44 | |
| Green Timber | 2.42 | 2.07 | 0.93 | | | | | | | | | | |
| Grimes Pass | | | | | | 1.21 | 0.63 | 1.33 | 2.05 | 2.01 | 8.02 | 3.59 | |
| Guffey | 1.40 | 0.56 | 0.35 | 0.39 | 0.65 | 0.42 | 0.02 | 0.01 | 0.62 | 0.59 | 1.38 | 1.28 | 7.67 |
| Hailey | 5.80 | 2.59 | 0.88 | T. | 1.54 | 0.10 | 0.57 | 0.17 | 1.61 | 0.83 | 2.68 | 2.46 | 19.23 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Idaho*—Continued. | | | | | | | | | | | | | |
| Halfway House | | | 0.85 | 0.38 | 1.18 | | | | | | | | |
| Hotspring | 2.52 | 0.87 | 0.62 | 0.06 | 0.58 | 0.00 | 0.05 | T. | 1.08 | 0.55 | 1.94 | 0.65 | 8.92 |
| Idaho City | | 4.63 | 1.24 | 0.45 | | 1.16 | 0.33 | 0.49 | 2.25 | 0.88 | 8.49 | 3.25 | |
| Idaho Falls | 1.11 | 1.38 | 0.59 | 0.09 | 1.60 | 0.84 | 0.98 | 0.77 | 2.78 | 0.75 | 1.26 | 1.17 | 13.32 |
| Indian Valley | 3.33 | 2.16 | 0.28 | 0.23 | 1.56 | 0.21 | 0.86 | 0.15 | 0.72 | 1.53 | 2.88 | 5.29 | 19.20 |
| Irwin | | | | | | 0.71 | 1.02 | 1.02 | 4.09 | 0.89 | 2.99 | | |
| Kellogg | 6.68 | 3.40 | 1.36 | 1.28 | 1.71 | 1.33 | 2.95 | 0.23 | 2.65 | 1.51 | 7.88 | 1.65 | 32.63 |
| Kirkham | | | | | | | | | | 1.72 | 9.13 | 6.85 | |
| Kooskia | 2.70 | 1.36 | 2.49 | 1.15 | 2.84 | 1.52 | 4.43 | 0.83 | 2.57 | 1.47 | 5.21 | 1.43 | 28.00 |
| Lake | 1.50 | 2.80 | 0.25 | 0.70 | 1.30 | 1.75 | 0.50 | 1.25 | 1.75 | | 1.70 | 1.20 | |
| Lakeview | 3.33 | 1.86 | 1.00 | 1.20 | 1.80 | 0.25 | 1.95 | 0.05 | 1.55 | 1.95 | 7.75 | 1.10 | 24.39 |
| Landore | 12.61 | 5.87 | 2.32 | 1.61 | 3.15 | 0.88 | 2.59 | 0.05 | 3.55 | 2.78 | 6.37 | 3.10 | 44.88 |
| Lardo | 8.82 | 4.10 | 1.56 | 0.82 | 2.12 | 1.50 | 2.58 | | | | | | |
| *Lewiston | 1.91 | 0.85 | 1.02 | 0.75 | 1.32 | 0.48 | 2.59 | T. | 1.43 | 0.85 | 3.49 | 0.63 | 15.32 |
| Little Camas | | | | 0.15 | 0.78 | 0.25 | 0.25 | T. | 2.52 | 1.54 | 8.19 | 4.41 | |
| Long Gulch | | | | 0.34 | 1.10 | 0.80 | | 0.09 | 2.26 | 1.17 | 9.56 | 3.80 | |
| Loon Creek | | | | | | | | 0.60 | 2.92 | 0.65 | 5.90 | 1.15 | |
| Lost River | 1.27 | 0.74 | 0.14 | T. | 1.32 | 0.51 | 0.89 | 0.15 | 2.17 | 0.79 | | | |
| Lowry | 3.22 | 1.41 | 1.41 | 0.23 | 1.55 | 0.22 | 0.10 | 0.13 | 1.26 | 0.76 | 3.64 | 1.49 | 15.42 |
| McCall | | | | | | | | 0.12 | 2.57 | 0.72 | | | |
| Mackay | 1.41 | 0.50 | 0.28 | 0.00 | 1.36 | 0.54 | 1.75 | 0.50 | 2.70 | 0.69 | 0.48 | 0.56 | 10.77 |
| Meadows | 6.20 | 2.64 | 1.05 | 0.71 | 1.65 | 1.55 | 2.16 | T. | 1.40 | 1.13 | 7.08 | 2.62 | 28.19 |
| Milner | 2.93 | 1.51 | 0.36 | 0.07 | | T. | T. | 0.07 | 0.06 | 1.03 | 3.89 | 0.11 | |
| Moscow | 4.11 | 3.23 | 1.02 | 2.06 | 1.62 | 0.65 | 3.65 | T. | 1.44 | 1.75 | 5.77 | 1.47 | 26.77 |
| Mountainhome | 3.36 | 1.34 | 0.68 | 0.04 | 0.43 | 0.30 | 0.12 | T. | 0.62 | 0.39 | 3.61 | 1.84 | 12.68 |
| Murray | 7.51 | 4.40 | 1.43 | 1.29 | | | | | | | | | |
| Murtaugh | 4.91 | 1.64 | 0.60 | 0.18 | 0.19 | 0.12 | 0.32 | 0.43 | 1.36 | 0.11 | 2.81 | 0.85 | 13.52 |
| Nez Perce | | | | | | | 3.40 | 0.13 | 2.05 | 0.44 | 3.18 | 0.75 | |
| Oakley | 3.35 | 2.09 | 0.70 | 0.40 | 1.60 | 0.57 | 0.55 | 1.46 | 2.05 | 0.84 | 2.35 | 0.45 | 16.41 |
| O'Hara Bar | | | | | | | | | | | 8.11 | | |
| Orofino | 2.94 | 2.27 | 2.93 | 1.76 | 0.88 | 1.73 | 4.32 | 0.04 | 3.37 | 1.81 | 8.02 | 1.54 | 31.61 |
| Oxford | 7.20 | 2.42 | 1.89 | 0.61 | 2.62 | 0.42 | 1.38 | 0.80 | 2.69 | 0.93 | 6.07 | 0.93 | 27.96 |
| Paris | 6.52 | 3.30 | 0.29 | 0.25 | 1.00 | 1.11 | 1.21 | 1.59 | | 0.33 | 3.83 | 1.09 | |
| Payette | 2.53 | 1.49 | 0.13 | 0.12 | 0.83 | 0.21 | 0.01 | T. | 0.99 | 0.64 | 1.53 | 1.52 | 10.00 |
| Pebble | | | | | 2.82 | 0.75 | 1.06 | 1.83 | 2.70 | 0.75 | 7.10 | 2.78 | |
| Pierson | 6.78 | 1.78 | 0.28 | 0.25 | 1.10 | 0.38 | 1.14 | 1.35 | 2.02 | 0.78 | 4.82 | 2.44 | 23.12 |
| Pine | | | | T. | | | | | | 1.40 | 8.00 | | |
| Placerville | | | | | | | | 0.03 | 2.23 | 0.11 | | | |
| Pleasant Valley | 3.61 | 1.29 | 0.67 | 0.23 | 0.65 | 0.24 | 0.05 | 0.22 | 0.27 | 0.60 | 2.89 | 1.07 | 11.78 |
| *Pocatello | 3.13 | 2.86 | 1.41 | 0.55 | 2.78 | 0.49 | 0.81 | 3.07 | 2.47 | 1.14 | 2.80 | 0.89 | 22.40 |
| Pocatello Nursery | | | | | 2.26 | 0.08 | 1.71 | 1.84 | 3.69 | | 4.65 | | |
| Poplar | | | | 0.76 | 2.34 | 1.01 | 0.79 | 1.24 | 3.59 | 0.65 | 2.48 | 1.76 | |
| Poplars | 3.63 | 0.09 | 0.56 | 0.26 | 0.39 | 0.16 | 0.07 | 0.00 | 1.60 | 0.70 | 2.11 | 1.13 | 11.30 |
| Porthill | 4.24 | 1.69 | 0.52 | 0.81 | 0.75 | 0.68 | 1.78 | T. | 1.27 | 1.62 | 4.73 | 1.55 | 19.64 |
| Powers Ranch | | 4.56 | 1.52 | 0.42 | | | | | | | 8.31 | 5.00 | |
| Pyle Creek | | | | | | | 0.61 | 0.04 | 2.16 | 1.42 | 9.63 | 4.21 | |
| Rattlesnake Creek | | | | | | | | | | | 19.26 | 3.50 | |
| Ruby Creek | | 6.05 | 1.48 | 0.67 | | | | | | | 9.62 | 4.99 | |
| Rupert | 4.50 | 1.46 | 0.51 | 0.11 | 0.56 | 0.04 | 0.91 | 0.82 | 2.35 | 0.66 | 3.83 | 1.22 | 16.97 |
| St. Maries | 6.17 | 3.31 | 1.33 | 1.06 | 1.55 | 1.19 | 3.15 | 0.14 | 1.56 | 1.95 | | | |
| Salem | 0.66 | 1.39 | 0.44 | 0.09 | 2.45 | 0.76 | 1.09 | 0.36 | 3.18 | 1.04 | 2.34 | | |
| Salmon | 0.84 | 0.43 | 0.19 | 0.26 | 0.93 | 0.44 | 0.91 | 0.68 | 1.85 | 0.61 | 1.48 | 0.85 | 9.47 |
| Salmon River Dam | 2.36 | 0.40 | 0.59 | 0.24 | 1.37 | 0.35 | 0.96 | 0.78 | 1.37 | 0.50 | 1.80 | 0.59 | 11.31 |
| Sheep Hill | | 6.47 | 0.79 | 0.41 | 1.55 | 0.70 | 0.10 | 0.13 | 2.60 | 0.74 | 9.02 | 5.88 | |
| Shoshone | 3.53 | 2.65 | 0.44 | 0.08 | 0.53 | 0.32 | 0.61 | 0.07 | 0.65 | 0.30 | 4.62 | 2.30 | 16.10 |
| Silver City | | | | | | | 0.10 | 0.10 | 1.26 | 2.13 | 4.72 | 3.44 | |
| Smith Prairie | | | | | | | | | | | 9.49 | 2.73 | |
| Smith Ranger Station | | | | | | | 2.01 | 0.05 | 1.67 | 2.29 | 7.28 | 1.89 | |
| Soldier | 7.03 | | 0.25 | 0.00 | 0.95 | 0.45 | 0.62 | 0.85 | 1.15 | 0.90 | 5.71 | 3.55 | |
| Spirit Lake | 7.37 | 4.16 | | | | | | | | | | | |
| Stone | | | 1.09 | 0.35 | 2.15 | 0.24 | 0.32 | 0.98 | 1.81 | 0.18 | 5.43 | 0.29 | |
| Sugar | 1.57 | 0.16 | 0.52 | 0.20 | 4.83 | 1.00 | 1.07 | 0.75 | 3.02 | 0.57 | 2.39 | 2.16 | 19.24 |
| Sunnyside | | | | | | 1.03 | 0.05 | T. | 0.81 | 0.24 | 3.93 | 1.66 | |
| Tilden | | | | 0.27 | 2.42 | 0.43 | 0.59 | 1.10 | 1.07 | 0.08 | 3.14 | 2.16 | |
| Tripod Mountain | | | | | | | | | 2.60 | 0.34 | 4.44 | 2.49 | |
| Twin Falls | 3.49 | 1.25 | 0.44 | 0.34 | 0.49 | 0.08 | 1.28 | 0.30 | 1.64 | 0.73 | 3.95 | 1.63 | 15.52 |
| Van Wyck | 4.10 | 2.01 | 0.57 | | | | | | | | | | |
| Vernon | 2.74 | 1.60 | 0.52 | 0.31 | 1.52 | 0.85 | 0.82 | T. | 3.36 | 0.04 | 3.41 | 2.03 | 17.80 |
| *Wallace | 2.74 | 3.07 | 0.95 | 1.39 | 2.98 | 1.04 | 3.29 | 0.22 | 2.49 | 2.11 | 15.77 | 2.51 | 39.16 |
| Warfield | | | | | | 0.28 | 0.79 | 0.41 | | | | | |
| Wendell | 5.36 | 2.29 | 0.71 | 0.20 | 0.65 | 0.37 | 0.30 | 0.13 | 1.02 | 0.34 | 4.94 | 1.45 | 17.76 |
| Weston | 3.84 | 3.10 | 1.32 | 0.33 | 2.46 | 0.64 | 1.38 | 1.01 | 2.08 | 0.77 | 3.90 | 2.04 | 22.87 |
| *Illinois.* | | | | | | | | | | | | | |
| Albion | 2.53 | 5.36 | 3.59 | 4.91 | 3.34 | 7.28 | 4.93 | 1.01 | 4.62 | 2.68 | 3.10 | 3.28 | 46.63 |
| Aledo | 1.32 | 2.34 | 1.61 | 4.00 | 4.19 | 3.36 | 4.10 | 0.44 | 3.04 | 2.23 | 4.79 | 3.66 | 35.08 |
| Alexander | 2.10 | 3.81 | 1.03 | 4.19 | 6.14 | 2.24 | 6.11 | 0.66 | 3.89 | 3.57 | 4.54 | 1.50 | 39.78 |
| Antioch | 2.20 | 1.60 | 0.60 | 8.68 | 1.05 | 2.00 | 1.15 | 6.55 | 3.62 | 0.61 | 3.23 | 3.50 | 34.79 |
| Ashton | 2.16 | 2.14 | 1.49 | 7.15 | 2.73 | 4.47 | 1.02 | 3.75 | 1.96 | 1.45 | | | |
| Astoria | 2.10 | 3.81 | 1.98 | 5.98 | 5.15 | 6.51 | 4.73 | 2.18 | 4.03 | 2.74 | 4.19 | 2.46 | 45.86 |
| Aurora | 1.43 | 2.57 | 1.34 | 8.38 | 2.64 | 4.71 | 0.48 | 2.92 | 3.28 | 1.25 | 4.33 | 3.43 | 36.76 |
| *Beardstown | | 3.61 | 1.60 | 4.84 | 4.56 | 2.74 | 6.09 | | | | | | |
| Bement | 3.08 | 4.86 | 1.18 | 7.85 | 6.51 | 2.42 | 7.20 | 3.86 | 3.36 | 2.82 | 2.98 | 1.35 | 48.07 |
| Benton | 3.90 | 5.77 | 5.65 | 6.54 | 4.00 | 1.60 | 12.45 | 0.15 | 5.62 | | 3.30 | 2.80 | |
| Bloomington | 1.77 | 5.09 | 1.78 | 5.94 | 3.79 | 4.63 | 3.15 | 2.51 | 2.35 | 2.98 | 4.28 | 2.01 | 40.28 |
| Bushnell | 2.12 | 1.95 | 1.38 | 5.43 | | | | | | | | | |
| *Cairo | 2.54 | 6.76 | 7.10 | 4.85 | 3.96 | 1.88 | 3.13 | 0.01 | 5.66 | 0.74 | 2.58 | 3.84 | 43.05 |
| Cambridge | | | 1.36 | 4.48 | 4.16 | 2.73 | 3.43 | 1.28 | | | | | |
| Carlinville | 2.58 | 4.04 | 1.87 | 6.02 | 4.75 | 4.65 | 5.41 | 0.47 | 4.76 | 3.15 | 3.76 | 1.99 | 43.45 |
| Carlyle | 2.76 | 4.81 | 3.70 | 6.77 | 4.33 | 5.43 | 4.55 | T. | 4.25 | 4.33 | 6.00 | 3.41 | 50.34 |
| Charleston | 2.21 | 4.59 | 2.05 | 7.83 | 3.24 | 4.04 | 9.05 | 1.12 | 3.35 | 2.80 | 3.14 | 2.63 | 46.05 |
| *Chester | 2.83 | 4.07 | 5.21 | 7.23 | 4.58 | 2.90 | 7.25 | 0.09 | 8.78 | 1.58 | 3.76 | 3.18 | 51.46 |
| *Chicago | 1.96 | 3.84 | 1.63 | 7.73 | 2.18 | 5.09 | 1.77 | 6.20 | 3.60 | 1.20 | 3.84 | 4.18 | 43.22 |
| Coatsburg | 1.68 | 3.39 | 2.13 | 5.89 | 7.46 | 2.92 | 5.91 | 0.98 | 4.90 | 2.94 | 3.54 | 2.36 | 44.10 |
| Cobden | 2.25 | 8.26 | 5.39 | 9.08 | 4.33 | 1.75 | 10.93 | 1.39 | 9.17 | 0.86 | 4.31 | 3.14 | 60.86 |
| Colchester | 2.91 | 3.15 | 1.54 | 5.38 | 3.44 | | | | | | | | |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Illinois*—Continued. | | | | | | | | | | | | | |
| Dakota | 2.65 | 1.49 | 1.18 | 8.29 | 3.39 | 4.17 | 1.37 | 7.49 | 2.23 | 0.79 | 3.77 | 3.53 | 40.35 |
| *Decatur | 2.43 | 4.31 | 1.27 | 5.58 | 5.30 | 3.14 | 6.18 | 2.20 | 2.79 | 3.59 | 3.13 | 2.40 | 42.32 |
| *Dixon | 2.78 | 1.89 | 1.16 | 6.40 | 4.34 | 5.72 | 1.51 | 1.13 | 2.81 | 2.42 | 2.59 | ..... | ..... |
| Du Quoin | 5.80 | 4.63 | 4.90 | 5.43 | 3.86 | 1.34 | 8.72 | 0.17 | 5.71 | 0.84 | 3.13 | 3.71 | 48.24 |
| Dwight | 1.73 | 4.29 | 1.79 | 7.13 | 2.48 | 6.06 | 1.50 | 3.53 | 2.34 | 2.38 | 4.24 | 2.96 | 40.43 |
| Equality | 3.48 | 6.14 | 3.98 | 6.29 | 3.08 | 2.56 | 8.19 | 0.46 | 2.55 | 1.98 | 3.83 | 3.86 | 46.40 |
| Fairfield | 3.02 | 6.83 | 3.91 | 6.18 | 3.17 | 3.95 | 5.35 | 1.05 | 4.10 | 1.86 | 3.60 | 2.34 | 45.36 |
| Flora | 2.46 | 4.40 | 5.55 | 4.79 | 4.08 | 5.59 | 6.57 | 0.09 | 5.79 | 4.50 | 4.28 | 2.45 | 50.55 |
| *Galva | 1.17 | 3.65 | 1.58 | 4.08 | 3.32 | 2.98 | 4.74 | 0.90 | 2.85 | 2.90 | 5.39 | 3.64 | 36.90 |
| Golconda | 2.78 | 9.04 | 5.89 | 7.05 | 4.23 | 3.93 | 4.09 | 0.08 | 5.15 | 1.39 | 4.58 | 5.23 | 54.34 |
| *Grafton | 2.04 | 3.64 | 2.52 | 5.53 | 5.40 | 3.90 | 6.08 | 1.28 | 4.17 | 3.92 | 6.74 | 2.06 | 47.28 |
| Greenville | 2.46 | 5.83 | 1.35 | 6.79 | 4.79 | 4.85 | 4.45 | 1.35 | 6.21 | 4.54 | 5.09 | 2.36 | 50.27 |
| Griggsville | 1.81 | 2.25 | 1.53 | 4.47 | 7.50 | 3.27 | 4.11 | 0.33 | 4.64 | 4.36 | 3.30 | 1.21 | 38.78 |
| Halfway | 2.71 | 6.40 | 4.17 | 9.06 | 3.75 | 2.75 | 6.44 | 0.95 | 4.68 | 0.86 | 3.51 | 3.28 | 48.56 |
| Havana | 1.55 | 3.86 | 1.80 | 5.39 | 4.64 | 5.68 | 4.84 | 1.95 | 5.68 | 3.13 | 3.61 | 2.13 | 44.25 |
| Henry | 1.44 | 3.55 | 1.76 | 7.11 | 3.41 | 3.77 | 3.81 | 3.98 | 3.93 | 2.48 | 4.66 | 3.20 | 43.08 |
| *Hillsboro | 2.30 | 4.85 | 2.78 | 7.81 | 4.33 | 3.79 | 6.25 | 1.04 | 6.45 | 3.79 | 6.23 | 2.16 | 51.75 |
| Hooperston | 2.87 | 6.88 | 1.76 | 6.45 | 4.24 | 4.18 | 6.07 | 5.28 | 2.53 | 2.10 | 3.47 | 3.61 | 49.24 |
| Joliet | 1.12 | 3.38 | 1.56 | 6.60 | 3.46 | 3.80 | 1.69 | 2.95 | 3.09 | 1.68 | 4.55 | 3.50 | 37.38 |
| Kishwaukee | 1.91 | 1.83 | 0.93 | 5.96 | 4.39 | 3.90 | 1.25 | 6.41 | 3.59 | 0.84 | 4.11 | 3.23 | 38.35 |
| Knoxville | 1.59 | 3.24 | 1.76 | 4.47 | 4.03 | 2.56 | 7.41 | 0.98 | 3.63 | 3.52 | 5.52 | 4.18 | 42.89 |
| LaGrange | 1.68 | 3.73 | 1.42 | 8.22 | 2.54 | 6.33 | 1.28 | 6.45 | 3.26 | 1.24 | 4.05 | 4.12 | 44.32 |
| LaHarpe | 1.35 | 3.32 | 2.09 | 3.52 | 4.87 | 7.15 | 6.18 | 3.31 | 4.68 | 3.52 | 3.61 | 2.92 | 46.52 |
| Lanark | 3.58 | 1.67 | 1.14 | 7.23 | 2.46 | 6.40 | 1.53 | 1.92 | 1.81 | 1.64 | 4.37 | 2.57 | 36.32 |
| *LaSalle | 1.28 | 3.06 | 1.40 | 5.93 | 3.05 | 2.33 | 2.52 | 4.00 | 3.15 | 1.53 | 3.82 | 3.64 | 35.71 |
| Lincoln | 2.29 | 1.84 | 1.55 | 5.04 | ..... | ..... | ..... | ..... | ..... | 3.10 | 4.22 | 2.86 | ..... |
| Loami | 2.57 | 4.89 | 1.12 | 6.08 | 3.65 | 2.40 | 4.95 | 1.23 | 2.82 | 3.83 | 4.14 | 1.31 | 38.99 |
| *McLeansboro | 3.08 | 6.63 | 4.13 | 6.55 | 3.66 | 3.13 | 6.34 | 0.31 | 3.72 | 1.52 | 3.44 | 3.58 | 46.09 |
| *Martinsville | 2.76 | 3.10 | 1.65 | 6.47 | 6.99 | 6.61 | 9.43 | 1.03 | 2.88 | 3.19 | 4.65 | 3.03 | 51.79 |
| Martinton | 2.30 | 4.39 | 2.00 | 4.90 | 2.95 | 4.27 | 2.45 | 7.31 | 3.82 | 3.35 | 5.53 | 4.10 | 47.37 |
| Mascoutah | 3.04 | 4.13 | 4.40 | 5.62 | 4.48 | 2.90 | 7.63 | 0.07 | 4.16 | 3.22 | 4.56 | 2.68 | 46.89 |
| Minonk | 1.62 | 3.50 | 1.68 | 5.62 | 2.56 | 3.31 | 1.98 | 3.32 | 1.98 | 2.43 | 3.83 | 2.90 | 34.73 |
| Monmouth | 1.54 | 3.06 | 2.02 | 3.92 | 3.34 | 3.99 | 5.06 | 0.38 | 3.68 | 3.77 | 5.98 | 3.88 | 40.62 |
| Morrison | 2.42 | 2.43 | 1.60 | 6.41 | 3.58 | 5.57 | 3.59 | 3.14 | 2.60 | 2.22 | 4.50 | 3.72 | 41.78 |
| Morrisonville | 1.66 | 3.79 | 1.55 | 5.88 | 5.52 | 2.48 | 6.77 | 0.40 | 3.39 | 3.37 | 2.74 | 1.47 | 39.02 |
| *Mount Carmel | 3.20 | 6.06 | 3.99 | 5.90 | 4.42 | 5.69 | 4.54 | 3.88 | 3.16 | 3.74 | 2.60 | 4.88 | 52.06 |
| *Mount Vernon | 3.82 | 5.17 | 4.98 | 7.50 | 4.45 | 7.13 | 4.03 | 0.30 | 3.72 | 1.55 | 3.23 | 2.81 | 48.69 |
| *New Burnside | 2.60 | 5.35 | 3.92 | 5.45 | 4.01 | 4.67 | 3.28 | 0.15 | 5.47 | 0.83 | 4.09 | 3.06 | 42.88 |
| *Olney | 2.77 | 6.42 | 3.80 | 3.44 | 3.52 | 5.57 | 5.03 | 0.81 | 3.94 | 3.60 | 4.13 | 3.28 | 46.31 |
| Oregon | ..... | ..... | ..... | ..... | ..... | ..... | 0.45 | 4.73 | 2.79 | 1.00 | 5.07 | 3.68 | ..... |
| Ottawa | 0.98 | 3.65 | 1.64 | 5.19 | 2.57 | 3.69 | 2.95 | 3.59 | 4.08 | 1.71 | 2.57 | 3.02 | 35.64 |
| Palestine | ..... | ..... | 4.51 | 3.47 | 3.18 | 6.42 | 5.24 | 0.73 | 1.83 | 3.11 | 3.70 | 3.61 | ..... |
| Pana | 2.72 | 5.05 | 1.68 | 6.25 | 3.96 | 3.71 | 8.82 | 1.74 | 3.73 | 3.20 | 4.48 | 2.53 | 47.87 |
| *Paris | 2.76 | 5.18 | 2.40 | 6.67 | 3.78 | 4.66 | 4.96 | 1.18 | 3.14 | 3.25 | 3.24 | 2.92 | 44.14 |
| *Peoria | 1.55 | 3.67 | 1.81 | 7.17 | 3.72 | 3.56 | 4.57 | 0.79 | 3.68 | 3.59 | 5.53 | 2.50 | 42.14 |
| Philo | 2.54 | 5.11 | 1.23 | 7.73 | 2.83 | 3.80 | 8.16 | 2.88 | 2.68 | 3.21 | 2.96 | 2.37 | 45.50 |
| Pontiac | 2.58 | 4.30 | 1.81 | 5.96 | 3.05 | 2.90 | 2.29 | 3.75 | 2.15 | 2.33 | 4.00 | 3.32 | 38.44 |
| *Rantoul | 2.18 | 5.34 | 1.57 | 7.64 | 3.75 | 3.77 | 3.27 | 1.81 | 2.36 | 2.40 | 3.51 | 2.36 | 39.96 |
| Riley | 2.50 | 2.58 | 1.10 | 7.70 | 1.62 | 3.37 | 0.63 | 6.25 | 3.37 | 0.72 | 3.91 | 5.05 | 38.80 |
| Robinson | 3.00 | 5.66 | 3.80 | 3.55 | 3.96 | 8.75 | 8.04 | 0.80 | 3.85 | 3.18 | 3.86 | 2.90 | 51.35 |
| *Rockford | 2.79 | 2.31 | 1.13 | 6.01 | 4.78 | 3.81 | 0.68 | 7.69 | 3.41 | 0.75 | 4.15 | 3.48 | 40.99 |
| Rushville | 2.02 | 2.70 | 1.02 | 5.16 | 5.56 | 3.51 | 3.99 | 0.81 | 3.99 | 2.92 | 2.57 | 2.32 | 36.57 |
| St. Charles | 1.38 | 2.74 | 1.32 | 7.14 | 2.46 | 5.50 | 0.33 | 6.58 | 3.59 | 0.99 | 5.27 | 4.44 | 41.74 |
| *Springfield | 2.08 | 4.34 | 1.10 | 5.34 | 6.91 | 4.11 | 6.47 | 1.62 | 3.67 | 2.76 | 3.70 | 1.47 | 42.52 |
| Staunton | 2.59 | 2.77 | 2.64 | 6.94 | 4.90 | 2.98 | 2.76 | 0.39 | 4.81 | 3.41 | 5.49 | ..... | ..... |
| *Streator | 1.37 | 3.45 | 1.81 | 6.61 | 2.76 | 4.79 | 2.60 | 3.31 | 2.74 | 2.21 | 3.73 | 2.85 | 38.23 |
| Sullivan | 2.47 | 5.21 | 1.75 | 10.74 | 4.89 | 5.14 | 5.58 | 1.30 | 4.37 | 3.39 | 3.34 | 2.36 | 50.54 |
| Sumner | 3.17 | 6.41 | 4.37 | 3.50 | 3.56 | 7.38 | 3.56 | 0.47 | 2.88 | 3.18 | 3.67 | 3.10 | 45.25 |
| *Sycamore | 1.72 | 1.97 | 1.60 | 10.09 | 2.97 | 3.27 | 0.62 | 7.08 | 3.95 | 1.19 | 5.42 | 5.27 | 45.15 |
| Tilden | 2.95 | 4.27 | 3.96 | 7.53 | 3.97 | 3.76 | 6.14 | 0.07 | 5.47 | 1.97 | 5.56 | 2.86 | 48.51 |
| Tiskilwa | 1.52 | 3.19 | 1.81 | 4.75 | 3.82 | 3.32 | 3.02 | 4.50 | 3.99 | 2.56 | 3.67 | 4.66 | 40.81 |
| *Tuscola | 3.10 | 4.51 | 1.25 | 7.94 | 3.88 | 3.70 | 4.42 | 2.29 | 3.10 | 3.28 | 2.89 | 2.74 | 43.10 |
| Urbana | 2.17 | 5.80 | 1.76 | 7.44 | 5.58 | 3.75 | 7.57 | 2.37 | 2.36 | 2.25 | 3.45 | 2.55 | 47.05 |
| Walnut | 1.66 | 3.91 | 1.06 | 5.94 | 3.14 | 3.09 | 1.83 | 3.09 | 2.41 | 2.09 | 5.24 | 4.37 | 37.83 |
| *Warsaw | 1.23 | 2.58 | 2.04 | 4.80 | 4.01 | 6.19 | 5.66 | 0.15 | 4.35 | 3.72 | 4.73 | 2.17 | 41.63 |
| White Hall | 3.28 | 4.33 | 1.50 | 4.45 | 5.62 | 4.18 | 6.02 | 1.48 | 4.74 | 5.48 | 5.85 | 2.38 | 49.31 |
| Windsor | 2.42 | 4.16 | 1.94 | 9.23 | 5.49 | 3.95 | 6.80 | 1.20 | 2.94 | 2.76 | 3.73 | 2.25 | 46.87 |
| Winnebago | 2.52 | 2.63 | 1.41 | 7.75 | 3.47 | 4.52 | 1.03 | 6.82 | 3.18 | 1.11 | 4.00 | 4.32 | 42.76 |
| Yorkville | 1.06 | 1.70 | 0.85 | 8.41 | 2.21 | 5.21 | 2.24 | 2.09 | 3.32 | 1.41 | 4.82 | 1.46 | 34.78 |
| Zion | 2.10 | 1.25 | 0.85 | 4.13 | 3.20 | 4.73 | 0.43 | 2.24 | 1.05 | 2.22 | 4.92 | 4.30 | 31.42 |
| *Indiana.* | | | | | | | | | | | | | |
| Anderson | 2.74 | 4.53 | 2.94 | 6.58 | 6.61 | 7.68 | 5.09 | 4.78 | 2.74 | 3.81 | 4.24 | 2.54 | 54.28 |
| *Auburn | 2.95 | 5.28 | 1.79 | 3.59 | 3.68 | 5.09 | 1.69 | 3.38 | 2.64 | 2.40 | 3.81 | 2.87 | 39.17 |
| *Bloomington | 3.00 | 6.43 | 3.38 | 4.35 | 5.64 | 5.68 | 6.73 | 2.03 | 2.25 | 5.11 | 3.71 | 4.75 | 53.06 |
| Bluffton | 2.94 | 5.05 | 2.49 | 4.95 | 3.74 | 5.73 | 1.06 | 1.84 | 4.19 | ..... | ..... | 2.41 | ..... |
| Butlerville | 2.51 | 6.63 | 3.65 | 4.67 | 6.14 | 3.68 | 6.39 | 4.59 | 0.88 | 5.47 | 2.25 | 3.77 | 50.63 |
| *Cambridge City | 1.88 | 5.72 | 2.34 | 3.92 | 5.72 | 6.28 | 5.67 | 4.49 | 1.70 | 5.32 | 2.95 | 3.00 | 48.99 |
| Collegeville | 2.29 | 7.16 | 2.77 | 5.76 | 3.38 | 5.42 | 5.02 | 6.97 | 4.26 | 2.62 | 4.20 | 3.21 | 53.06 |
| *Columbus | 1.94 | 5.53 | 2.65 | 6.40 | 5.66 | 3.77 | 3.15 | 1.31 | 4.95 | 4.99 | 3.10 | 2.91 | 46.36 |
| Connersville | 2.50 | 5.56 | 2.38 | 5.17 | 5.33 | 3.92 | 4.73 | 1.39 | 2.25 | 4.38 | 2.31 | 2.81 | 42.73 |
| *Delphi | 2.39 | 4.94 | 2.22 | 6.13 | 6.03 | 5.01 | 4.92 | 4.03 | 2.95 | 2.43 | 3.44 | 3.04 | 48.43 |
| Elkhart | 2.12 | 2.81 | 1.96 | 3.20 | 2.70 | 5.32 | 3.51 | 4.21 | 2.92 | ..... | 4.49 | 2.77 | ..... |
| Eminence | 1.48 | 5.62 | 2.92 | 4.89 | 6.79 | 5.77 | 5.29 | 2.67 | 2.94 | 3.78 | 3.30 | 2.29 | 47.74 |
| *Evansville | 2.84 | 7.04 | 3.58 | 5.21 | 2.47 | 3.21 | 5.73 | 0.41 | 2.30 | 2.04 | 2.86 | 3.48 | 41.17 |
| Farmersburg | 2.22 | 4.30 | ..... | 3.37 | 6.66 | 3.01 | 8.06 | 1.52 | 2.83 | 5.33 | 3.68 | 2.71 | ..... |
| *Farmland | 2.24 | 5.10 | 3.06 | 4.67 | 4.71 | 8.06 | 5.91 | 3.19 | 2.28 | 3.98 | 3.72 | 2.48 | 49.40 |
| *Fort Wayne | 2.45 | 5.25 | 2.35 | 5.26 | 3.25 | 7.46 | 3.18 | 2.32 | 3.60 | 2.67 | 3.68 | 2.74 | 44.21 |
| Greenfield | 2.42 | 6.10 | 2.51 | 4.34 | 4.50 | 5.13 | 5.76 | 3.22 | 3.42 | 4.65 | 3.23 | 3.10 | 48.38 |
| Greensburg | ..... | 4.01 | 2.50 | 4.43 | 4.73 | 2.34 | 4.70 | 1.80 | 1.86 | 4.81 | 1.61 | 3.08 | ..... |
| Hammond | 1.68 | 3.24 | ..... | 6.01 | 3.26 | 4.54 | 2.52 | 3.17 | 1.35 | 3.50 | 5.60 | 2.15 | ..... |
| Heltonville | ..... | ..... | ..... | ..... | 5.68 | 2.41 | 6.32 | 2.17 | ..... | 5.44 | 1.69 | ..... | ..... |
| Huntingburg | 3.17 | 7.28 | 3.98 | 5.05 | 3.50 | 4.47 | 7.76 | 2.22 | 2.30 | 4.86 | 2.55 | 4.62 | 51.76 |
| Huntington | 2.86 | 5.10 | 2.70 | 5.52 | 3.67 | 6.58 | 2.82 | 4.21 | 2.65 | 3.19 | 4.21 | 2.93 | 46.44 |
| *Indianapolis | 2.76 | 4.65 | 2.37 | 4.18 | 6.01 | 5.21 | 5.42 | 2.80 | 2.15 | 3.23 | 3.30 | 2.90 | 44.98 |
| Jeffersonville | 2.72 | 9.28 | 4.93 | 6.11 | 4.54 | 2.97 | 6.44 | 1.17 | 2.20 | 4.15 | 1.92 | 3.05 | 49.48 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Indiana*—Continued. | | | | | | | | | | | | | |
| Judyville | 2.52 | 7.77 | 1.89 | 7.54 | 3.92 | 5.36 | 3.72 | 4.26 | 3.63 | 2.44 | 4.29 | 3.16 | 50.50 |
| Knox | 5.01 | 6.57 | 2.15 | 6.00 | 3.26 | 4.44 | 4.01 | 5.70 | 3.41 | 2.61 | 4.44 | 2.93 | 50.53 |
| Kokomo | | | | | | 3.82 | 5.84 | 6.75 | 3.69 | 3.26 | 3.86 | 2.53 | |
| *Lafayette | 2.69 | 4.70 | 2.33 | 6.66 | 4.88 | 7.34 | 3.80 | 6.77 | 3.67 | 2.90 | 4.28 | 3.06 | 53.08 |
| Laporte | 2.15 | 3.40 | 1.88 | 5.39 | 3.05 | 5.52 | 2.79 | 3.32 | 2.24 | 1.40 | 3.92 | 2.30 | 37.36 |
| Lima | 2.28 | 4.14 | 1.74 | 4.99 | 5.51 | 6.94 | 3.58 | 6.03 | 3.21 | 2.28 | 4.27 | 2.60 | 48.17 |
| *Logansport | 2.47 | 6.04 | 2.58 | 5.89 | 5.42 | 7.44 | 5.99 | 4.11 | 3.11 | 2.19 | 3.26 | 2.76 | 51.26 |
| *Madison | 2.48 | 8.11 | 3.86 | 5.55 | 7.36 | 3.18 | 9.37 | 2.02 | 1.23 | 3.55 | 1.92 | 3.75 | 52.38 |
| Marengo | 4.64 | 8.14 | 4.15 | 4.98 | 6.74 | 3.59 | 5.57 | 1.72 | | 4.56 | 1.92 | 3.53 | |
| *Marion | 2.97 | 5.51 | 2.79 | 5.86 | 4.47 | 4.20 | 5.39 | 3.37 | 4.04 | 2.94 | 3.53 | 3.53 | 48.60 |
| Markle | 3.30 | 5.00 | 2.90 | 5.11 | 3.82 | 7.20 | 2.40 | 1.50 | 6.80 | 3.05 | 3.90 | 2.60 | 47.58 |
| Mauzy | 2.45 | 6.18 | 2.18 | 4.73 | 6.67 | 3.73 | 4.75 | 2.12 | 2.06 | 4.92 | 2.74 | 3.17 | 45.70 |
| Moores Hill | 2.36 | 7.79 | 3.02 | 5.01 | 5.01 | 3.56 | 4.34 | 1.73 | 1.23 | 4.40 | 1.54 | 2.83 | 42.82 |
| *Mount Vernon | 3.60 | 6.45 | 3.93 | 4.38 | 3.75 | 2.95 | 10.25 | 0.14 | 2.63 | 4.09 | 3.56 | 3.12 | 48.85 |
| Paoli | 2.36 | 6.96 | 3.24 | 4.60 | 4.42 | 4.50 | 8.80 | 2.52 | 1.67 | 4.58 | 1.95 | 3.65 | 49.25 |
| Plymouth | 3.25 | 4.70 | 2.72 | 4.94 | 3.65 | 4.49 | 3.58 | 4.95 | 3.49 | 2.24 | 3.32 | 3.28 | 44.01 |
| Princeton | 3.55 | 5.21 | 3.20 | 6.70 | 3.90 | 3.50 | 4.76 | 1.65 | 2.16 | 4.68 | 2.48 | 3.64 | 45.43 |
| Richmond | 2.11 | 5.87 | 2.18 | 4.68 | 5.37 | 5.74 | 5.84 | 4.27 | 1.24 | 5.77 | 2.95 | 2.36 | 48.38 |
| Rochester | 3.01 | 5.93 | 2.41 | 4.25 | 3.49 | 9.02 | 1.88 | 2.67 | 3.96 | 2.12 | 4.09 | 3.34 | 46.17 |
| Rockville | 2.07 | 4.22 | 1.94 | 6.18 | 4.45 | 7.44 | 6.89 | 3.33 | 1.98 | 4.21 | 2.59 | 2.44 | 47.74 |
| Rome | 2.98 | 10.04 | 6.06 | 7.98 | 3.76 | 4.56 | 5.88 | 0.88 | 2.28 | 2.54 | 2.45 | 3.41 | 52.82 |
| Salamonia | 2.28 | 4.68 | 2.91 | 4.74 | 3.84 | 3.42 | 3.33 | 5.36 | 1.72 | 3.23 | 2.96 | 2.38 | 40.25 |
| Salem | 3.01 | 7.94 | 4.32 | 4.65 | 4.48 | 4.26 | 9.31 | 1.18 | 1.15 | 4.50 | 2.26 | 4.18 | 51.24 |
| Scottsburg | 2.83 | 7.08 | 3.87 | 5.09 | 5.21 | 3.85 | 10.49 | 1.56 | | | 2.05 | 3.32 | |
| Seymour | 2.23 | 6.91 | 3.31 | 6.65 | 5.94 | 3.62 | 4.81 | 1.56 | 3.09 | 3.84 | 1.39 | 3.60 | 46.35 |
| Shelbyville | 2.84 | 6.71 | 2.34 | 4.40 | 6.00 | 5.55 | 5.09 | 3.90 | 1.97 | 5.36 | 3.26 | 2.43 | 49.85 |
| *South Bend | 4.46 | 4.64 | 1.66 | 4.96 | 3.34 | 4.59 | 3.23 | 3.68 | 3.00 | 2.12 | 4.68 | 3.40 | 43.76 |
| *Terre Haute | 2.87 | 5.10 | 3.08 | 4.28 | 4.66 | 7.10 | 4.55 | 1.58 | 4.06 | 4.38 | 3.56 | 3.10 | 48.32 |
| Veedersburg | 2.73 | 4.66 | 1.92 | 5.65 | 4.00 | 4.81 | 3.84 | 2.42 | 2.80 | 3.32 | 2.89 | 2.96 | 42.00 |
| Vevay | 2.65 | 7.50 | 5.25 | 3.95 | 6.80 | 5.90 | 7.40 | 2.05 | 0.75 | 4.00 | 1.60 | 2.35 | 50.20 |
| *Vincennes | 3.05 | 5.95 | 3.28 | 5.25 | 4.00 | 5.00 | 5.85 | 0.70 | 3.35 | 4.10 | 3.65 | 4.95 | 49.13 |
| *Washington | 2.31 | 5.45 | 3.35 | 6.70 | 4.09 | 5.40 | 5.54 | 1.11 | 2.30 | 4.03 | 2.88 | 3.90 | 47.06 |
| Whitestown | 2.79 | 5.87 | 2.67 | 4.75 | 5.46 | 6.41 | 5.88 | 4.39 | 2.67 | 3.58 | 2.87 | 2.97 | 50.31 |
| Winona Lake | 2.77 | 4.85 | 2.58 | 4.23 | 3.47 | 7.80 | 3.53 | 1.67 | 2.80 | 2.29 | 4.55 | 2.62 | 43.16 |
| Worthington | 2.97 | 7.03 | 3.58 | 4.92 | 5.88 | 5.97 | 7.61 | 2.07 | 1.67 | 4.74 | 2.85 | 4.15 | 53.14 |
| *Iowa.* | | | | | | | | | | | | | |
| Afton | 1.51 | 0.80 | 1.34 | 5.24 | 4.65 | 13.30 | 5.21 | 1.36 | 2.78 | 3.50 | 5.20 | 2.59 | 47.48 |
| *Albia | 2.35 | 1.43 | 1.82 | 5.36 | 5.38 | 7.06 | 6.42 | 1.04 | 3.63 | 2.98 | 4.51 | 1.80 | 43.78 |
| Algona | 2.21 | 1.90 | 1.14 | 3.48 | 5.89 | 6.03 | 2.90 | 2.36 | 4.71 | 2.21 | 8.04 | 1.29 | 42.07 |
| Allerton | 1.82 | 1.90 | 2.15 | 4.40 | 4.21 | 10.24 | 11.86 | 0.34 | 4.56 | 2.56 | 3.47 | 2.28 | 49.79 |
| *Alta | 1.17 | 1.77 | 1.23 | 2.77 | 6.54 | 5.67 | 5.86 | 2.37 | 2.15 | 1.15 | 6.13 | 1.33 | 38.14 |
| Alta (near) | 1.05 | 1.50 | 1.20 | 2.38 | 6.20 | 6.23 | 8.37 | 2.96 | 2.16 | 2.01 | 5.56 | 1.39 | 41.01 |
| Alton | 0.95 | 1.65 | 0.92 | 2.80 | 4.91 | 5.96 | 6.61 | 0.99 | 4.42 | 1.43 | 3.94 | 1.90 | 36.48 |
| Amana | 1.73 | 1.90 | 2.09 | 6.81 | 2.40 | 5.51 | 6.62 | 1.00 | 3.96 | 1.81 | 4.14 | 2.37 | 40.34 |
| Ames | 1.36 | 1.45 | 1.71 | 6.12 | 4.17 | 5.00 | 3.00 | 0.52 | 2.82 | 1.59 | 4.16 | 5.29 | 37.19 |
| Atlantic | 1.90 | 1.40 | 0.97 | 3.83 | 3.43 | 9.08 | 6.00 | 0.44 | 6.03 | 2.90 | 8.66 | 1.94 | 46.58 |
| Audubon | 3.17 | 2.08 | 1.65 | 2.72 | 4.03 | 6.58 | 7.33 | 0.41 | 5.32 | 2.38 | 8.57 | 1.56 | 45.80 |
| Baxter | 1.32 | 1.31 | 1.78 | 6.49 | 6.36 | 5.48 | 5.30 | 0.71 | 2.20 | 2.42 | 4.23 | 2.04 | 39.64 |
| Bedford | 1.00 | 0.93 | 1.45 | 3.41 | 3.16 | 5.76 | 7.29 | 1.37 | 5.53 | 3.04 | 4.21 | 2.30 | 39.45 |
| Belle Plaine | 2.89 | 1.40 | 2.49 | 6.48 | 2.81 | 5.99 | 4.94 | 1.05 | 1.84 | 1.34 | 3.68 | 2.72 | 37.03 |
| Belmond | | | | | | | | | | | | 2.64 | |
| Bloomfield | 1.54 | 1.90 | 2.33 | 3.92 | 5.69 | | 7.90 | 0.82 | 3.55 | 3.55 | | 3.47 | |
| Bonaparte | 1.11 | 2.36 | 1.96 | 3.51 | 4.13 | 5.93 | 7.35 | 0.17 | 3.26 | 3.21 | 3.84 | 2.41 | 39.24 |
| *Boone | 2.11 | 1.88 | 3.05 | 4.31 | 4.81 | 7.02 | 4.12 | 0.86 | 4.24 | 2.54 | 7.67 | 2.45 | 45.06 |
| Britt | 1.26 | 1.24 | 1.40 | 2.90 | 5.29 | 6.21 | 3.63 | 2.12 | 3.70 | 1.47 | 7.55 | | |
| Buckingham | 1.77 | 0.98 | 0.98 | 5.22 | 3.72 | 3.60 | 1.66 | 1.10 | 2.06 | 1.78 | 2.83 | 1.50 | 27.20 |
| *Burlington | 1.62 | 2.33 | 2.52 | 3.79 | 3.83 | 4.37 | 5.46 | 0.87 | 4.47 | 2.65 | 4.53 | 4.39 | 40.83 |
| *Carroll | 1.77 | 0.52 | 1.50 | 2.53 | 6.28 | 9.79 | 4.51 | 0.30 | 5.23 | 3.78 | 7.26 | 1.45 | 44.92 |
| *Cedar Rapids | 2.27 | 1.67 | 1.47 | 6.36 | 3.05 | 4.44 | 4.21 | 1.16 | 3.91 | 1.28 | 2.82 | 1.50 | 34.14 |
| Chariton | 1.50 | 0.85 | 1.60 | 5.01 | 3.89 | 6.33 | 6.11 | 0.82 | 3.97 | 2.14 | 4.74 | 2.45 | 39.41 |
| *Charles City | | 1.53 | 2.18 | 5.40 | 3.42 | 5.40 | 1.77 | 6.88 | 3.12 | 2.48 | 6.06 | 1.79 | |
| *Clarinda | 1.27 | 0.68 | 1.75 | 2.91 | 4.78 | 10.39 | 7.55 | 0.95 | 5.59 | 2.78 | 5.74 | 1.88 | 46.27 |
| Clear Lake | 1.35 | 0.72 | 1.25 | | 3.73 | 5.12 | 2.83 | 3.39 | 4.54 | 2.75 | 5.87 | 1.80 | |
| *Clinton | | 2.50 | 1.72 | 7.72 | 4.19 | 6.01 | 4.73 | 5.20 | 2.27 | 3.06 | 3.58 | 6.10 | |
| Columbus Junction | 0.65 | 2.20 | 1.65 | 5.16 | 3.48 | 2.95 | 5.10 | 0.50 | 2.39 | 2.16 | 4.76 | 2.72 | 33.72 |
| Corning | 1.00 | 0.81 | 2.27 | 4.82 | 4.99 | 10.11 | 6.87 | 1.51 | 5.12 | 3.16 | 5.62 | 2.38 | 48.66 |
| Corydon | 1.86 | 1.86 | 1.88 | 4.74 | 3.97 | 6.92 | 7.34 | 0.49 | 4.99 | 2.39 | 3.46 | 2.14 | 42.04 |
| *Creston | 1.68 | 1.25 | 0.94 | 4.85 | 5.27 | 12.17 | 5.16 | 1.94 | 4.25 | 2.99 | 4.92 | 1.96 | 47.38 |
| Cumberland | 2.12 | 0.85 | 1.10 | 5.36 | 3.59 | 6.92 | 4.73 | 0.50 | 4.14 | 4.70 | 3.36 | 1.80 | 39.17 |
| *Davenport | 1.72 | 2.34 | 1.60 | 6.02 | 3.23 | 2.80 | 4.68 | 2.34 | 1.50 | 2.37 | 3.92 | 3.12 | 35.64 |
| Decorah | 1.98 | 2.02 | 1.51 | 5.90 | 2.45 | | 1.29 | 4.93 | 3.17 | 1.19 | 7.91 | 2.24 | |
| Delaware | 1.22 | 0.68 | 1.10 | 5.60 | 3.51 | 7.91 | 2.22 | 4.04 | 2.86 | 0.93 | 3.54 | 1.64 | 35.31 |
| Denison | 0.86 | 1.92 | 0.28 | 2.20 | 5.65 | 7.75 | 6.08 | 0.71 | 4.43 | 1.71 | 8.13 | 1.90 | 41.62 |
| *Des Moines | 1.61 | 0.90 | 1.56 | 5.14 | 4.24 | 7.03 | 4.41 | 0.14 | 2.06 | 2.89 | 3.71 | 2.32 | 36.03 |
| De Soto | 1.29 | 1.12 | 1.73 | 5.03 | 4.29 | 6.37 | 2.88 | 0.71 | 3.39 | 2.11 | 4.27 | 2.05 | 35.30 |
| Dows | 1.30 | 1.51 | | 4.03 | 3.07 | 7.12 | 2.57 | 0.59 | 3.58 | 2.13 | 6.04 | | |
| *Dubuque | 1.98 | 1.32 | 1.25 | 7.40 | 2.32 | 6.61 | 1.30 | 1.50 | 4.28 | 2.03 | 2.04 | 2.08 | 35.01 |
| Earlham | 1.83 | 1.60 | 1.28 | 7.20 | 3.82 | 6.82 | 3.78 | 0.88 | 4.33 | | 5.87 | 3.49 | |
| Elkader | 1.79 | 1.02 | 1.27 | 7.80 | 3.14 | 4.80 | 1.60 | 2.17 | 2.15 | 1.46 | 4.51 | 2.45 | 34.17 |
| Elliott | 1.28 | 0.88 | 0.95 | 4.05 | 3.79 | 6.55 | 8.44 | 0.54 | 5.03 | 3.07 | 7.78 | 1.80 | 44.16 |
| Elma | 1.31 | 1.14 | 0.85 | 4.57 | 2.70 | 4.46 | 2.52 | 5.48 | 3.08 | 1.30 | 6.03 | 1.13 | 34.57 |
| *Estherville | 1.05 | 1.99 | 0.65 | 2.73 | 6.47 | 7.01 | 4.75 | 1.85 | 4.69 | 1.47 | 3.46 | 1.55 | 37.67 |
| Fairfield | 1.52 | 3.44 | 1.84 | 4.84 | 5.08 | 5.92 | 7.61 | T. | 2.17 | 3.32 | 4.72 | 2.39 | 42.85 |
| Fayette | 2.05 | 2.76 | 1.84 | 8.02 | | 6.77 | 1.65 | 2.55 | 2.77 | 1.05 | 4.36 | 2.84 | |
| *Forest City | 2.25 | 1.05 | 1.55 | 3.57 | 4.69 | 5.78 | 3.13 | 2.81 | 3.60 | 0.75 | 7.21 | 1.40 | 37.79 |
| *Fort Dodge | 1.09 | 0.70 | 1.50 | | 5.78 | 7.21 | 5.29 | 0.65 | 3.73 | 1.34 | 7.14 | 1.39 | |
| Fort Madison | 1.94 | 3.10 | 2.25 | 3.98 | 4.36 | 7.79 | 5.99 | 0.18 | 4.24 | 3.51 | 4.28 | 2.20 | 43.82 |
| Gilman | 2.29 | 1.70 | 0.50 | 6.18 | 4.92 | 4.88 | 5.33 | 1.35 | 1.39 | 3.49 | 3.97 | 2.87 | 38.87 |
| Grand Meadow | 1.59 | 1.05 | 1.85 | 7.67 | 3.89 | 4.90 | 1.30 | 4.23 | 2.68 | 1.81 | 4.44 | 2.45 | 37.86 |
| Greene | 1.86 | 0.87 | 1.72 | 4.10 | 2.85 | 5.41 | 2.91 | 3.84 | 3.69 | 1.70 | 7.54 | 1.95 | 38.44 |
| Grinnell | 1.65 | 0.74 | 0.93 | 5.72 | 2.89 | 6.00 | 4.85 | 2.04 | 1.86 | 3.37 | 4.28 | 1.99 | 36.32 |
| Grundy Center | 1.35 | 0.60 | 1.20 | 7.37 | 3.63 | 8.76 | 2.04 | 1.55 | 3.87 | 1.93 | 5.78 | | |
| Guthrie Center | 1.85 | 1.50 | 1.94 | 4.35 | 5.52 | 6.06 | 4.58 | 1.26 | 4.33 | 2.52 | 7.78 | 2.65 | 44.34 |
| Hampton | 3.21 | 1.87 | 2.35 | 4.84 | 3.31 | 5.21 | 2.73 | 3.15 | 4.26 | 2.64 | 6.74 | 2.23 | 42.54 |
| Hancock | 1.81 | 0.93 | | 0.83 | 2.27 | 8.38 | 2.85 | 0.53 | 4.90 | 2.15 | 8.35 | 1.66 | |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Iowa*—Continued. | | | | | | | | | | | | | |
| Harlan | 1.81 | 1.55 | 1.00 | 2.76 | 4.25 | 6.84 | 5.03 | 0.88 | 7.19 | 1.81 | 9.85 | 1.81 | 44.78 |
| Hopeville | 1.25 | 2.06 | 1.55 | 6.31 | 3.82 | 8.83 | 7.36 | 1.49 | 1.83 | 3.26 | 4.60 | 2.07 | 44.43 |
| Humboldt | 2.19 | 1.89 | 2.43 | 3.45 | 7.14 | 7.10 | 4.89 | 0.75 | 4.22 | 1.37 | 11.48 | 1.36 | 48.27 |
| Independence | 1.74 | 2.05 | 1.40 | 5.84 | 2.19 | 5.78 | 1.53 | 1.91 | 2.44 | 0.48 | 2.07 | 2.87 | 30.30 |
| Indianola | 1.04 | 2.50 | 1.53 | 3.94 | 2.47 | 5.76 | 1.67 | 0.07 | 2.74 | 2.45 | 5.09 | 2.32 | 32.48 |
| Inwood | 0.85 | 1.99 | 0.57 | 2.77 | 4.92 | 8.53 | 4.37 | 2.70 | 4.38 | 1.27 | 3.08 | 1.65 | 37.08 |
| *Iowa City | 1.97 | 1.89 | 2.00 | 7.21 | 4.40 | 4.58 | 5.75 | 1.88 | 2.43 | 1.59 | 4.88 | 2.52 | 41.10 |
| *Iowa Falls | 2.47 | 1.30 | 1.80 | 5.31 | 3.53 | 5.63 | 2.07 | 1.19 | 2.63 | 1.82 | 5.70 | 2.64 | 36.09 |
| Jefferson | ..... | ..... | 1.05 | 1.48 | 5.48 | ..... | 5.49 | ..... | ..... | 2.33 | 6.13 | 1.71 | ..... |
| *Keokuk | 1.26 | 2.44 | 1.84 | 4.99 | 3.03 | 5.11 | 5.46 | 0.68 | 3.46 | 4.48 | 3.97 | 2.56 | 39.28 |
| *Keosauqua | 1.40 | 2.26 | 1.94 | 4.20 | 4.75 | 4.35 | 6.94 | 0.23 | 3.14 | 2.31 | 3.28 | 2.78 | 37.58 |
| Knoxville | 1.71 | 1.41 | 2.63 | ..... | ..... | 5.88 | 6.48 | 1.25 | 2.96 | 2.54 | 5.67 | 2.66 | ..... |
| Lacona | 3.25 | 0.84 | ..... | ..... | ..... | ..... | 4.83 | 1.46 | 3.21 | 3.01 | 4.59 | 4.00 | ..... |
| Lamoni | 1.96 | 1.01 | 1.59 | 4.36 | 4.72 | 8.11 | 11.78 | 0.37 | 5.75 | 3.63 | 3.66 | 2.60 | 49.54 |
| Larrabee | 1.13 | 0.48 | 1.31 | 2.12 | 5.30 | 7.32 | 5.79 | 0.81 | 4.87 | 2.58 | 5.92 | 1.84 | 39.47 |
| *Le Claire | 1.98 | 2.58 | 1.63 | 6.29 | 3.05 | 4.63 | 3.41 | 2.66 | 2.03 | 2.26 | 5.10 | 3.74 | 39.36 |
| Le Mars | 0.41 | 1.51 | 0.81 | 2.71 | 5.08 | 7.22 | 6.82 | 1.43 | 5.72 | 1.91 | 4.35 | 0.99 | 38.96 |
| Lenox | 1.13 | 0.30 | 1.06 | 6.19 | 5.75 | 7.69 | 9.86 | 1.50 | 3.71 | 2.93 | 4.42 | 1.72 | 46.26 |
| Leon | 2.17 | 1.82 | 1.75 | 5.67 | 4.92 | 10.35 | 10.90 | 0.54 | 4.65 | 3.20 | 3.50 | 3.27 | 52.74 |
| Little Sioux | 0.63 | 1.89 | 0.54 | 1.83 | 4.05 | 5.72 | 4.13 | 1.57 | 4.62 | 1.69 | 5.93 | 1.62 | 34.22 |
| Logan | 1.09 | 1.86 | 0.39 | 2.09 | 3.82 | 6.82 | 6.83 | 2.96 | 6.16 | 1.02 | 8.29 | 1.93 | 43.26 |
| *Marshalltown | 3.06 | 1.14 | 1.25 | 4.93 | 3.49 | 6.12 | 3.90 | 0.76 | ..... | 1.97 | 4.31 | 2.98 | ..... |
| Mason City | 1.76 | 1.12 | 1.07 | 4.09 | 4.19 | 5.96 | 2.24 | 5.13 | 3.75 | 1.55 | 6.73 | 1.59 | 39.18 |
| Massena | 0.89 | 0.95 | 1.09 | 4.89 | 4.91 | ..... | 3.79 | 0.92 | 5.23 | ..... | 7.25 | 2.71 | ..... |
| *Merrill | ..... | ..... | ..... | ..... | 4.49 | 4.16 | 10.35 | ..... | ..... | ..... | ..... | ..... | ..... |
| Mt. Ayr | 1.60 | 1.90 | 1.84 | 5.55 | 4.85 | 8.11 | 12.20 | 1.38 | 4.30 | 4.32 | 4.29 | 2.63 | 52.97 |
| *Mt. Pleasant | 1.26 | 2.53 | 2.08 | 3.92 | 4.54 | 4.50 | 6.39 | 0.21 | 2.27 | 2.76 | 4.95 | 3.38 | 38.79 |
| *Muscatine | 2.19 | 2.30 | 1.58 | 5.46 | 3.35 | 4.43 | 3.63 | 2.61 | 1.96 | 1.68 | 5.53 | 2.90 | 37.62 |
| New Hampton | 1.91 | 0.65 | 3.10 | 9.43 | 4.21 | 6.18 | 1.94 | 8.21 | 2.38 | 1.04 | 7.16 | 1.23 | 47.44 |
| Newton | 1.86 | 1.83 | 1.07 | 5.15 | 3.18 | 3.93 | 3.23 | 0.81 | 1.93 | 1.41 | 2.30 | 1.85 | 29.55 |
| Northwood | 2.43 | 2.57 | 2.05 | 4.30 | 3.65 | 5.20 | ..... | 6.07 | 4.09 | 1.57 | 7.40 | 1.70 | ..... |
| Odebolt | 0.86 | 1.72 | 0.68 | 1.46 | 6.50 | 7.77 | 5.85 | 0.44 | 3.19 | 1.71 | 7.18 | 1.21 | 38.57 |
| Olin | ..... | ..... | 1.52 | 6.96 | 2.75 | ..... | 3.55 | 5.20 | 2.24 | 1.34 | ..... | ..... | ..... |
| Onawa | 1.22 | 2.43 | 0.83 | 2.34 | 4.03 | 5.80 | 4.38 | 1.68 | 4.18 | 3.73 | 5.34 | 1.77 | 37.73 |
| Osage | 1.75 | 1.45 | 1.30 | 3.86 | 3.47 | 6.61 | 1.61 | 6.87 | 3.20 | 2.09 | 7.51 | ..... | ..... |
| Oskaloosa | 1.83 | 1.58 | 2.23 | 6.29 | 7.05 | 5.21 | 3.94 | 0.12 | 3.73 | 2.78 | 4.01 | 2.25 | 41.02 |
| *Ottumwa | 1.25 | 2.13 | 2.09 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.58 | ..... |
| Pacific Junction | 1.92 | 0.99 | 0.96 | 2.59 | 4.70 | 8.90 | 3.13 | 0.65 | 5.88 | 1.83 | 9.74 | 2.37 | 43.66 |
| Pella | ..... | ..... | 1.87 | 6.36 | 4.21 | 4.61 | 2.92 | 0.23 | 1.70 | 2.52 | 5.50 | 1.83 | ..... |
| Perry | 2.23 | 4.72 | 5.00 | 4.47 | 5.99 | 9.02 | 5.38 | 0.31 | 5.03 | 2.66 | 5.35 | 2.42 | 53.48 |
| Plover | 1.67 | 0.90 | 1.50 | 2.47 | 5.00 | 5.07 | 4.50 | 0.90 | 3.07 | 2.13 | 7.28 | 1.13 | 36.22 |
| Pocahontas | 1.94 | 1.25 | 1.26 | 2.85 | 5.19 | 7.29 | 5.83 | 2.07 | 3.07 | 1.04 | 6.92 | 0.97 | 39.68 |
| Ridgeway | 3.74 | 2.73 | 2.82 | 6.94 | 3.36 | 5.43 | 1.24 | 6.20 | 3.74 | 1.50 | 9.50 | 4.12 | 51.32 |
| Rock Rapids | ..... | ..... | 0.60 | ..... | 4.05 | 7.57 | 4.63 | 0.75 | 3.05 | 1.09 | 2.60 | 0.80 | ..... |
| Rockwell City | 1.85 | 2.50 | 0.80 | 2.73 | 7.85 | 7.35 | 6.42 | 0.05 | 5.70 | 1.85 | 8.90 | 1.95 | 47.95 |
| Sac City | ..... | ..... | ..... | 1.92 | 4.43 | 4.24 | 4.59 | 0.29 | 2.73 | 1.41 | 7.24 | 1.65 | ..... |
| St. Charles | 2.72 | 1.34 | 2.13 | 7.16 | 3.70 | 6.59 | 2.21 | 0.80 | 2.29 | 4.09 | 5.18 | 2.61 | 40.82 |
| Sheldon | 1.97 | ..... | ..... | 3.05 | 6.03 | 6.77 | 5.85 | 1.63 | 4.12 | 1.90 | 5.05 | 3.40 | ..... |
| *Sibley | 0.70 | 1.30 | 0.85 | 2.60 | 4.61 | 6.85 | 3.21 | 1.45 | 3.72 | 1.41 | 4.02 | 1.39 | 32.11 |
| Sigourney | 2.17 | 1.93 | 1.91 | 5.78 | 4.65 | 7.02 | 2.70 | 2.67 | 4.03 | 2.58 | 5.30 | 2.59 | 43.33 |
| Sioux Center | 0.78 | 1.13 | 0.70 | 2.50 | 6.61 | 4.48 | 7.74 | 1.07 | 4.33 | 1.59 | 2.47 | 0.90 | 34.30 |
| *Sioux City | 0.60 | 2.24 | 0.74 | 2.09 | 3.98 | 5.20 | 4.09 | 3.02 | 1.99 | 1.63 | 3.02 | 1.04 | 29.64 |
| Stockport | 1.24 | 2.18 | 1.73 | 3.69 | 4.22 | 3.57 | 8.57 | 0.71 | 3.13 | 2.49 | 3.51 | 2.57 | 37.61 |
| Storm Lake | 0.93 | 1.99 | 1.67 | 2.08 | 6.30 | 3.48 | 5.87 | 2.66 | 2.16 | 1.60 | 3.91 | 0.89 | 33.54 |
| Thurman | 0.47 | 1.09 | 0.93 | 2.21 | 4.95 | 6.04 | 3.45 | 0.50 | 7.34 | 1.34 | 10.33 | 2.07 | 40.72 |
| Tipton | 1.89 | 1.44 | 2.39 | 6.11 | 4.46 | 9.25 | 4.17 | 2.72 | 1.51 | 3.18 | 4.58 | 3.23 | 24.93 |
| Toledo | 2.30 | 1.25 | 0.95 | 5.70 | 4.14 | 7.73 | 5.16 | 1.14 | 1.88 | 3.55 | 4.07 | 2.96 | 40.83 |
| Wapello | 0.99 | 1.76 | 1.08 | 4.20 | 3.36 | 3.87 | 3.99 | 1.50 | 2.33 | 2.40 | 3.29 | 2.48 | 31.25 |
| Washington | 1.71 | 1.88 | 1.81 | 5.02 | 4.08 | ..... | 2.68 | 0.26 | 3.67 | 1.78 | 6.04 | 2.57 | ..... |
| Washta | 1.10 | 1.40 | 0.65 | 2.33 | 7.66 | 6.32 | 6.89 | 1.92 | 2.44 | 3.39 | 5.18 | 1.05 | 40.33 |
| *Waterloo | 2.61 | 1.32 | 1.81 | 6.49 | 1.86 | 4.21 | 1.20 | 1.94 | 2.08 | 1.43 | 3.06 | 2.55 | 32.56 |
| Waukee | 1.94 | 1.20 | 0.91 | 7.05 | 3.64 | 5.37 | 4.45 | 0.94 | 2.95 | 2.88 | 4.51 | 2.30 | 38.14 |
| Waverly | 1.98 | 1.04 | 1.70 | 7.83 | 2.14 | 6.35 | 1.57 | 1.73 | 2.60 | 1.22 | 6.31 | 2.29 | 36.76 |
| Webster City | 1.43 | 0.92 | 1.85 | 3.97 | 4.09 | 6.57 | 5.30 | 2.66 | 3.87 | 1.51 | 6.86 | 2.73 | 41.76 |
| West Bend | 1.61 | 0.78 | 1.35 | 2.51 | 5.00 | 6.37 | 5.29 | 1.07 | 3.72 | 1.13 | 6.23 | 0.89 | 35.95 |
| Whitten | 2.34 | 0.45 | ..... | 6.99 | 3.64 | 7.87 | 2.98 | 1.00 | 2.74 | 1.28 | 4.48 | 1.79 | ..... |
| Wilton Junction | 1.96 | 1.58 | 1.52 | 5.15 | 3.51 | 3.73 | 3.30 | 1.71 | 1.48 | 1.97 | 4.63 | ..... | ..... |
| Winterset | 1.70 | 1.04 | 1.04 | 5.82 | 4.55 | 4.84 | 2.39 | 0.43 | 2.74 | 2.32 | 4.26 | 2.05 | 33.18 |
| Woodburn | 2.17 | 1.36 | 1.80 | 5.72 | 5.45 | 8.94 | 6.51 | 3.15 | 3.61 | 3.03 | 4.66 | 2.09 | 48.49 |
| Zearing | 1.58 | 0.82 | 1.83 | 6.87 | 2.77 | 5.23 | 3.09 | 0.60 | 3.48 | 2.16 | 5.27 | 3.00 | 36.70 |
| *Kansas.* | | | | | | | | | | | | | |
| *Abilene | 0.70 | 0.44 | 0.92 | 0.88 | 4.32 | 3.72 | 8.22 | 1.05 | 2.84 | 1.04 | 5.44 | 1.42 | 30.99 |
| Agricultural College | 0.22 | 1.27 | 3.40 | 2.07 | 4.41 | 5.00 | 9.57 | 0.59 | 5.21 | 1.60 | 7.98 | 2.19 | 43.51 |
| Alton | 0.47 | 0.30 | 0.96 | 0.40 | 1.16 | 5.99 | 2.69 | 1.08 | 3.73 | 1.32 | 2.36 | 1.83 | 22.29 |
| Anthony | 0.35 | 0.26 | 1.30 | 0.67 | 3.62 | 4.04 | 5.60 | 1.13 | 2.19 | 3.64 | 6.17 | 1.19 | 30.16 |
| Ashland | 0.28 | 0.08 | 1.84 | 0.84 | 5.53 | 3.98 | 2.61 | 0.44 | 2.57 | 2.92 | 11.69 | 0.18 | 32.96 |
| Atchison | 1.10 | 1.10 | 2.77 | 2.95 | 4.29 | 4.52 | 8.64 | 2.70 | 10.86 | 1.85 | 4.40 | 1.65 | 46.83 |
| *Baker | ..... | 0.95 | 2.50 | 2.35 | 2.22 | 7.29 | 8.59 | 2.49 | 7.70 | 1.20 | 7.75 | 2.05 | ..... |
| *Beloit | 0.21 | 0.34 | 0.86 | 1.59 | 2.21 | 4.45 | 6.30 | ..... | ..... | ..... | ..... | ..... | ..... |
| Blakeman | T. | 0.36 | 2.18 | 0.74 | 1.78 | 5.77 | 2.39 | 1.58 | 1.54 | 0.85 | 2.47 | 1.47 | 21.13 |
| *Blue Rapids | 0.28 | 0.70 | 2.17 | 2.35 | 4.95 | 2.69 | 5.80 | ..... | ..... | ..... | ..... | ..... | ..... |
| Burlington | 0.69 | 1.83 | 2.46 | 3.44 | 3.20 | 1.99 | 7.97 | 2.94 | 1.40 | 2.28 | 4.18 | 2.03 | 34.41 |
| Centralia | ..... | ..... | ..... | 1.66 | 3.37 | 3.80 | 9.75 | 0.53 | 7.54 | 1.73 | 8.51 | 3.15 | ..... |
| Chanute | ..... | 2.35 | 3.43 | 1.94 | 3.97 | 6.23 | 6.48 | 0.45 | 1.00 | 1.51 | 5.79 | 1.94 | ..... |
| Chapman | 0.87 | 0.92 | 2.31 | 0.80 | 8.02 | 4.33 | 5.96 | 0.73 | 2.30 | 1.78 | 7.02 | 2.06 | 37.12 |
| Cimarron | 0.40 | 0.31 | 1.64 | 0.15 | 1.84 | 5.13 | 2.90 | 2.60 | 1.20 | 0.88 | 5.46 | 0.55 | 22.16 |
| *Clay Center | 0.25 | 0.57 | 2.40 | 0.95 | 4.58 | 2.98 | 6.76 | 0.67 | 3.03 | 1.22 | 6.56 | 1.45 | 32.02 |
| Colby | 0.09 | 0.34 | 1.16 | 0.35 | 1.45 | 5.60 | 2.98 | 0.45 | 1.97 | 0.70 | 2.26 | 0.56 | 17.91 |
| Coldwater | 0.17 | T. | 1.14 | 0.52 | 2.44 | 4.91 | 3.42 | 0.41 | 2.98 | 1.32 | 7.74 | 0.06 | 25.11 |
| Columbus | 1.36 | 2.30 | 2.12 | 4.13 | 0.58 | 3.84 | 4.51 | 0.57 | 1.64 | 3.05 | 7.69 | 2.80 | 40.59 |
| *Concordia | 0.21 | 0.49 | 1.24 | 1.58 | 3.06 | 3.18 | 7.86 | 0.37 | 6.30 | 2.80 | 4.35 | 1.15 | 32.59 |
| Coolidge | 0.00 | ..... | 0.93 | 0.44 | 1.06 | 0.79 | 5.57 | 4.52 | 1.58 | 1.11 | 1.96 | 0.70 | ..... |
| Cottonwood Falls | 0.90 | 1.36 | 2.45 | 1.69 | 5.86 | 3.36 | 10.19 | 2.22 | 0.63 | 1.35 | 7.45 | 1.64 | 39.10 |
| Council Grove | 0.03 | 0.69 | 1.07 | 0.19 | 3.21 | 4.29 | 10.34 | 1.13 | 1.09 | 1.02 | 7.18 | 1.13 | 31.37 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Kansas*—Continued. | | | | | | | | | | | | | |
| Cunningham | 0.25 | 0.65 | ..... | 0.05 | 3.60 | 4.05 | 2.50 | 1.10 | 3.70 | 2.75 | 6.75 | ..... | ..... |
| Densmore | ..... | ..... | ..... | ..... | 2.17 | 5.61 | 2.50 | 0.28 | 1.60 | 1.31 | 2.70 | 0.48 | ..... |
| *Dodge City | 0.29 | 0.16 | 1.15 | 0.02 | 2.33 | 3.20 | 2.93 | 1.25 | 1.50 | 0.92 | 5.81 | 0.79 | 20.55 |
| *Dresden | T. | 0.95 | 0.98 | 0.72 | 1.22 | 4.01 | 3.44 | 1.99 | 2.83 | 0.68 | 2.56 | 2.06 | 21.44 |
| El Dorado | 0.54 | 1.80 | 2.63 | 2.12 | 4.65 | 1.69 | 3.65 | 0.57 | 0.88 | 2.36 | 7.47 | 1.86 | 30.22 |
| Ellinwood | 0.69 | 0.42 | 0.71 | 0.17 | 3.70 | 5.55 | 4.35 | 2.19 | 5.70 | 2.40 | 6.84 | 1.05 | 33.77 |
| Ellsworth | 1.54 | 1.10 | 1.10 | 0.27 | 3.42 | 9.65 | 6.05 | 1.63 | 3.41 | 2.02 | 5.30 | 0.59 | 36.08 |
| *Emporia | 0.39 | 0.85 | 2.29 | 1.53 | 5.53 | 6.33 | 9.85 | 5.46 | 0.92 | 1.88 | 5.62 | 1.98 | 42.63 |
| Enterprise | 0.50 | 0.73 | 0.91 | 0.96 | 5.34 | 4.20 | 7.86 | 1.29 | 1.92 | 1.25 | 6.72 | 0.98 | 32.66 |
| Eskridge | 0.32 | 1.21 | 1.64 | 1.50 | 4.31 | 7.46 | 12.19 | 1.47 | 4.63 | 2.07 | 6.39 | 1.92 | 45.11 |
| Eureka | 0.43 | 0.90 | 2.70 | 1.98 | 5.17 | 4.30 | 5.56 | 1.12 | 0.98 | 2.00 | 4.79 | 2.06 | 31.99 |
| Fall River | 0.50 | 1.72 | 3.35 | 3.85 | 6.95 | 7.79 | 6.42 | 0.32 | 1.16 | 1.54 | 4.73 | 1.70 | 40.03 |
| Fargo | ..... | ..... | 0.69 | 0.39 | 2.54 | 1.41 | 0.67 | 0.37 | 1.50 | 0.89 | 4.27 | 0.62 | ..... |
| Farnsworth | 0.27 | 0.24 | 1.67 | 0.44 | 1.65 | 6.48 | 4.82 | 0.90 | 3.06 | 0.64 | 3.25 | 1.00 | 24.42 |
| *Fort Scott | 0.77 | 2.63 | 2.90 | 2.24 | 3.56 | 2.91 | 7.83 | 0.51 | 1.65 | 2.83 | 4.96 | 2.51 | 35.30 |
| Frankfort | 0.32 | 0.97 | 3.40 | 2.77 | 4.18 | 5.65 | 7.57 | 0.30 | 7.93 | 0.90 | 9.58 | 2.87 | 46.44 |
| Fredonia | 0.57 | 1.18 | 3.43 | 1.63 | 5.29 | 7.32 | 5.16 | 0.40 | 1.75 | 1.96 | 4.82 | 1.23 | 34.73 |
| Garden City | 0.30 | 0.35 | 2.15 | 0.20 | 3.06 | 3.48 | 6.22 | 0.81 | 1.20 | 0.75 | 3.77 | 0.70 | 22.99 |
| Garnett | ..... | 1.94 | 2.74 | 2.33 | 3.71 | 5.98 | 14.06 | 1.27 | 1.64 | 1.65 | 1.98 | ..... | ..... |
| Goodland | 0.10 | 0.20 | ..... | ..... | 4.11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Gove | 0.30 | 0.46 | 1.95 | 0.48 | 2.07 | 10.44 | 2.37 | 0.51 | 3.71 | 0.73 | 2.99 | 2.10 | 28.11 |
| *Great Bend | ..... | ..... | ..... | 0.21 | 2.57 | 5.41 | 2.03 | ..... | ..... | ..... | ..... | ..... | ..... |
| Greensburg | 0.25 | 0.01 | 2.05 | 0.17 | 4.00 | 4.64 | 2.00 | 1.25 | 3.17 | 2.37 | 7.80 | 0.28 | 28.99 |
| Grenola | 0.30 | 0.66 | 1.60 | 2.03 | 8.13 | 6.30 | 5.73 | 1.72 | 2.23 | 2.17 | 5.06 | 0.58 | 36.51 |
| Hanover | 0.01 | 0.37 | 1.83 | 0.83 | 4.64 | 4.82 | 7.29 | 0.32 | 6.94 | 0.80 | 6.19 | 2.49 | 36.53 |
| Harrison | 0.11 | 0.18 | 1.34 | 0.25 | 4.47 | 3.29 | 6.05 | 0.41 | 5.43 | 1.76 | 4.46 | 1.64 | 29.73 |
| Hays | 0.39 | 0.28 | 1.16 | 0.47 | 1.60 | 10.21 | 3.71 | 1.48 | 2.78 | 1.64 | 3.55 | 1.00 | 28.27 |
| Hill City | 0.03 | 0.55 | 1.75 | ..... | ..... | 5.80 | 3.15 | ..... | ..... | ..... | ..... | 1.05 | ..... |
| Horton | 0.77 | 0.67 | 2.59 | 2.87 | 2.32 | 6.07 | 8.96 | 1.81 | 7.95 | 1.24 | 5.51 | 2.25 | 43.01 |
| Howard | 0.50 | 0.60 | 2.58 | 3.77 | 6.93 | 6.06 | 4.33 | 2.02 | 3.24 | 2.96 | 5.07 | 0.97 | 39.03 |
| Hoxie | 0.10 | 0.20 | 1.31 | 0.23 | 1.58 | 6.18 | 3.21 | 1.08 | 3.56 | 0.54 | 2.59 | 0.47 | 21.05 |
| Hugoton | 0.00 | 0.06 | 0.56 | 0.42 | 2.28 | 4.39 | 2.31 | 1.44 | 0.40 | 2.27 | 3.16 | 0.85 | 18.14 |
| *Hutchinson | 0.57 | 0.55 | 1.33 | 1.33 | 4.82 | 7.73 | 4.52 | 2.53 | 1.03 | 2.85 | 6.52 | 1.04 | 34.62 |
| Independence | 0.66 | 1.76 | 3.48 | 2.43 | 4.74 | 5.88 | 3.67 | 0.58 | 4.63 | 2.02 | 4.42 | 1.45 | 35.72 |
| *Iola | 0.64 | 1.63 | 3.60 | 4.19 | 5.67 | 6.41 | 5.15 | 1.32 | 1.72 | 1.90 | 3.68 | 1.73 | 37.84 |
| Jetmore | 0.43 | 0.25 | 1.90 | 0.05 | 1.70 | 9.03 | 4.83 | 1.36 | 3.25 | 0.81 | 6.49 | 0.65 | 30.75 |
| Jewell | T. | 0.37 | 1.07 | 0.85 | 1.39 | 3.97 | 8.32 | 1.03 | 3.52 | 1.58 | 5.12 | 2.19 | 29.41 |
| Kingman | 0.27 | 0.42 | 1.87 | 0.25 | 3.50 | 6.76 | 1.77 | 3.27 | 1.73 | 2.72 | 7.11 | 1.01 | 30.68 |
| LaCrosse | 0.33 | 0.07 | 0.99 | 0.15 | 1.29 | 7.66 | 4.42 | 0.96 | 3.26 | 1.54 | 4.63 | 0.66 | 25.96 |
| Lakin | 0.35 | 0.10 | 0.62 | 0.18 | 1.88 | 1.81 | 3.77 | 0.58 | 0.50 | 0.86 | 3.01 | 0.32 | 13.96 |
| Larned | 0.59 | T. | 1.20 | T. | 2.27 | 5.66 | 2.10 | 0.99 | 3.83 | 1.86 | 5.75 | 0.56 | 24.81 |
| Lawrence | 0.74 | 0.74 | 1.88 | 3.32 | 7.59 | 5.73 | 6.47 | 1.33 | 11.49 | 1.68 | 4.79 | 2.39 | 48.15 |
| Lebanon | 0.22 | 0.38 | 0.90 | 0.12 | 1.50 | 5.63 | 6.21 | 0.39 | 3.55 | 1.83 | 4.99 | 1.23 | 26.95 |
| Lebo | 1.06 | 1.60 | 1.58 | 2.80 | 2.75 | 7.38 | 12.75 | 1.49 | 3.17 | 1.50 | 6.51 | 1.73 | 44.32 |
| *LeRoy | 0.84 | 1.98 | 3.68 | 3.43 | 4.76 | 2.46 | 13.03 | 1.82 | 1.96 | 1.34 | 2.93 | 2.34 | 40.57 |
| Liberal | 0.31 | 0.10 | 0.91 | 0.60 | 3.51 | 3.58 | ..... | ..... | 2.95 | 1.38 | 4.49 | 0.75 | ..... |
| *Lindsborg | 0.49 | 0.92 | 1.04 | 1.16 | 2.32 | 8.24 | 4.14 | ..... | ..... | ..... | ..... | ..... | ..... |
| *Mackswell | 0.21 | T. | 0.94 | T. | 3.49 | 5.13 | 2.83 | 1.15 | 3.34 | 2.26 | 5.08 | 0.70 | 25.13 |
| *McPherson | 0.68 | 0.81 | 0.46 | 0.93 | 4.91 | 6.64 | 6.14 | 5.80 | 1.07 | 2.17 | 6.35 | 1.38 | 37.04 |
| Madison | ..... | ..... | 1.96 | 3.63 | 3.27 | 4.43 | 9.79 | 1.81 | 0.65 | 1.33 | 6.12 | ..... | ..... |
| *Manhattan | 0.69 | 1.34 | 2.92 | 1.79 | 4.47 | 5.43 | 9.81 | 1.02 | 4.37 | 1.37 | 7.97 | 2.27 | 43.45 |
| Mankato | ..... | ..... | ..... | ..... | ..... | ..... | 6.33 | 1.24 | 3.87 | 1.26 | 4.03 | 1.85 | ..... |
| Marion | ..... | 1.37 | 1.99 | 1.67 | 4.11 | 3.97 | 9.32 | 1.32 | 0.64 | 1.32 | 7.23 | 1.21 | ..... |
| Medicine Lodge | 0.35 | 0.16 | 1.75 | 0.43 | 4.34 | 2.84 | 2.15 | 0.58 | 1.67 | 2.82 | 7.06 | 0.74 | 24.89 |
| *Medora | ..... | ..... | ..... | 1.87 | 5.38 | 7.13 | 4.44 | 2.09 | ..... | ..... | ..... | ..... | ..... |
| Minneapolis | 0.39 | 0.56 | 1.51 | 0.71 | 4.68 | 4.94 | 5.62 | 0.96 | 5.26 | 3.49 | 6.37 | 1.17 | 35.06 |
| Moran | 0.94 | 1.31 | 2.85 | 3.39 | 4.04 | 4.62 | 6.77 | 0.85 | 1.11 | 1.59 | 4.38 | 2.20 | 34.05 |
| Mount Hope | 0.06 | 0.93 | 1.50 | 1.25 | 3.13 | 4.63 | 2.95 | 3.10 | 1.70 | 1.70 | 7.16 | 1.07 | 29.18 |
| Natoma | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.60 | 1.25 | ..... |
| *Neosho Rapids | 0.32 | 0.86 | 1.45 | 2.38 | 3.05 | 5.55 | 11.21 | 2.53 | 2.17 | 1.27 | 6.02 | 1.61 | 38.42 |
| Ness City | 0.12 | 0.10 | 1.70 | 0.25 | 2.21 | 7.25 | 2.00 | ..... | ..... | ..... | 4.43 | 0.37 | ..... |
| Newton | 0.33 | 1.56 | 0.92 | 1.60 | 2.91 | 5.64 | 6.27 | 1.67 | 0.77 | 1.98 | 7.32 | 1.56 | 32.53 |
| Norton | T. | 0.45 | 1.55 | 0.93 | 1.91 | 8.40 | 2.59 | 0.46 | 3.19 | 1.23 | 3.54 | 1.31 | 25.56 |
| Norwich | 0.36 | 0.32 | 1.58 | 1.23 | 5.68 | 6.52 | 2.73 | 0.50 | 1.13 | 3.87 | 8.49 | 1.26 | 33.67 |
| Oberlin | ..... | ..... | ..... | 0.73 | 0.55 | 4.75 | 2.22 | 0.83 | 1.96 | 0.78 | 2.73 | 0.97 | ..... |
| Oketo | 0.42 | 0.28 | 1.20 | 1.26 | 5.85 | 5.34 | 6.45 | 0.23 | 6.82 | 0.50 | 7.45 | 2.70 | 38.50 |
| Olathe | 0.90 | 1.92 | 1.75 | 2.73 | 6.49 | 4.29 | 5.44 | 0.41 | 7.62 | 2.04 | 2.94 | 2.23 | 38.76 |
| *Osage City | 0.47 | 0.83 | 2.30 | 2.19 | 6.81 | 5.27 | 18.67 | 1.26 | 1.45 | 1.51 | 7.68 | 1.97 | 50.41 |
| *Oswego | 1.00 | 2.02 | 2.73 | 2.11 | 4.32 | 4.48 | 3.49 | 0.29 | 1.12 | 2.20 | 4.62 | 1.62 | 30.00 |
| Ottawa | 1.02 | 1.14 | 2.06 | 2.37 | 4.58 | 7.85 | 11.76 | 0.93 | 4.22 | 2.83 | 1.84 | 2.34 | 42.94 |
| Paola | 1.59 | 2.07 | 1.19 | 3.28 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Phillipsburg | 0.23 | 0.84 | 0.81 | 0.49 | 1.32 | 8.23 | 3.44 | 0.57 | 3.08 | 1.50 | 2.67 | 1.63 | 24.81 |
| Plainville | 0.53 | 0.40 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 4.01 | 2.60 | ..... |
| Pleasanton | 1.46 | 2.27 | 2.56 | 3.15 | 5.78 | 8.01 | 10.83 | 0.88 | 3.54 | 2.41 | 2.90 | 2.62 | 46.41 |
| Pratt | 0.50 | 0.27 | 2.38 | T. | 2.99 | 2.95 | 4.48 | 1.32 | 2.40 | 1.98 | 6.42 | 0.25 | 25.94 |
| Republic | 0.23 | 0.69 | 2.40 | 0.25 | 3.02 | ..... | 7.20 | 0.65 | ..... | ..... | ..... | ..... | ..... |
| Rome | 0.38 | 0.50 | 1.34 | 1.26 | 7.04 | 6.97 | 7.27 | 2.44 | 1.83 | 3.46 | 7.11 | 0.96 | 40.56 |
| *Russell | 0.55 | 0.20 | 2.24 | 0.45 | 2.76 | ..... | ..... | ..... | ..... | 2.55 | 5.78 | 1.09 | ..... |
| Salina | 0.55 | 0.55 | 1.01 | 0.38 | 3.48 | 5.85 | 5.66 | 2.65 | 3.01 | 2.76 | 5.86 | 0.90 | 32.06 |
| St. Francis | 0.15 | 0.87 | 1.75 | 0.71 | 1.62 | 5.98 | 2.42 | 0.46 | 2.66 | 1.16 | 2.00 | 1.75 | 21.53 |
| *Scott | 0.84 | 0.12 | 2.12 | 0.31 | 2.45 | 7.82 | 4.69 | 0.47 | 1.58 | 0.53 | 3.67 | 1.07 | 25.67 |
| *Sedan | 1.22 | 1.40 | 2.60 | 2.01 | 6.34 | 4.06 | 4.98 | 0.75 | 2.43 | 1.64 | 3.88 | 0.93 | 32.24 |
| *Topeka | 0.44 | 1.06 | 2.01 | 1.61 | 4.03 | 3.56 | 11.60 | 0.77 | 11.48 | 1.35 | 5.98 | 2.17 | 46.96 |
| *Toronto | 1.55 | 1.75 | 3.60 | 3.25 | 6.05 | 5.65 | 5.75 | 0.60 | 1.70 | 2.15 | 4.10 | 1.20 | 37.35 |
| Ulysses | 0.45 | T. | 0.72 | 0.27 | 1.42 | 2.01 | ..... | 0.27 | 0.60 | 1.13 | 2.58 | 0.55 | ..... |
| Valley Falls | 0.60 | 0.80 | 2.59 | 2.23 | 3.85 | 4.63 | 11.16 | 2.62 | 7.41 | 1.49 | 5.36 | 2.36 | 45.10 |
| Vinland | ..... | ..... | ..... | ..... | 8.12 | 4.78 | 7.93 | 1.18 | 7.56 | 1.92 | 2.61 | 1.69 | ..... |
| Wakeeney | 0.29 | 0.13 | 2.51 | 0.55 | 1.21 | 12.07 | 3.43 | 0.69 | 4.27 | 1.41 | 3.74 | 0.80 | 31.01 |
| Wallace | 0.15 | 0.03 | 0.89 | 0.43 | 2.48 | 7.80 | 2.61 | 0.70 | 1.41 | 0.86 | 2.55 | 0.29 | 20.20 |
| Walnut | 1.02 | 2.12 | 2.71 | 3.10 | 2.41 | 6.30 | 3.82 | 0.73 | 1.42 | 2.88 | 4.34 | 2.80 | 33.65 |
| Wamego | 0.72 | 1.05 | 3.33 | 2.47 | 5.61 | 6.06 | 9.95 | 0.73 | 7.31 | 2.31 | 9.08 | 2.60 | 51.22 |
| Wellington | 0.01 | 0.45 | 1.07 | 1.15 | 3.05 | 6.41 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *Wichita | 0.27 | 0.89 | 1.47 | 1.59 | 3.64 | 5.71 | 3.26 | 1.01 | 1.77 | 2.95 | 6.09 | 1.31 | 30.56 |
| Winfield | 1.28 | 1.25 | 1.83 | 1.04 | 7.38 | 4.82 | 5.83 | 1.03 | 3.35 | 2.64 | 6.55 | 1.66 | 38.66 |
| Yates Center | 1.25 | 1.30 | 3.24 | 3.59 | 7.57 | 4.04 | 5.81 | 0.59 | 2.68 | 2.97 | 3.96 | 1.82 | 38.82 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Kentucky.* | | | | | | | | | | | | | |
| Alpha | 4.42 | 8.94 | 8.33 | 6.34 | 6.28 | 6.42 | 3.92 | 2.00 | 2.65 | 0.95 | 3.00 | 4.77 | 58.02 |
| Anchorage | 3.24 | 10.24 | 5.29 | 6.99 | 5.25 | 3.69 | 5.23 | 2.32 | 2.24 | 3.87 | 2.18 | 2.78 | 53.32 |
| *Bardstown | 3.09 | 9.08 | 4.57 | 6.92 | 5.10 | 3.87 | 9.74 | 1.35 | 1.91 | 2.18 | 1.58 | 3.78 | 53.17 |
| *Beattyville | 5.32 | 5.84 | 6.54 | 6.38 | 4.72 | 6.28 | 6.22 | 5.88 | 1.40 | 1.80 | 2.92 | 2.54 | 55.84 |
| *Beaver Dam | 2.76 | 9.00 | 5.53 | 5.55 | 3.18 | 8.68 | 6.33 | 1.52 | 1.79 | 2.08 | 3.22 | 2.77 | 52.41 |
| Berea | 2.99 | 7.08 | 4.69 | 6.78 | 4.53 | 10.20 | 5.69 | 4.90 | 2.00 | 1.22 | 2.41 | 1.17 | 53.66 |
| Blandville | 2.87 | 9.75 | 5.44 | 7.00 | 5.81 | 2.31 | 7.26 | 0.02 | 5.79 | 2.72 | 3.74 | 4.35 | 57.06 |
| *Bowling Green | 3.05 | 7.11 | 5.32 | 4.95 | 5.31 | 4.67 | 7.19 | 2.02 | 2.71 | 1.68 | 1.75 | 3.73 | 49.49 |
| *Burnside | 3.71 | ..... | ..... | ..... | ..... | ..... | 5.34 | 3.96 | 1.59 | 1.35 | 3.32 | 3.94 | ..... |
| Cadiz | ..... | ..... | 5.50 | 4.66 | ..... | 4.00 | 5.51 | 0.21 | 3.39 | 2.04 | 2.02 | 3.95 | ..... |
| Calhoun | 2.87 | 9.29 | 6.04 | 6.62 | 3.37 | 3.58 | 9.15 | 1.85 | 1.96 | 2.20 | 2.67 | 3.30 | 52.90 |
| *Catlettsburg | 3.86 | 5.02 | 3.44 | 4.42 | 5.20 | 6.74 | 4.36 | 2.10 | 1.62 | 1.76 | 1.50 | 2.04 | 42.06 |
| *Earlington | 2.59 | 8.58 | 6.36 | 5.81 | 3.49 | 3.20 | 3.95 | 1.13 | 3.01 | 1.95 | 3.01 | 2.76 | 45.84 |
| Edmonton | 3.85 | 8.12 | 6.61 | 5.13 | 5.55 | 6.22 | 6.23 | 1.17 | 2.93 | 2.29 | 2.75 | 4.28 | 55.13 |
| *Eubank | 2.54 | 5.74 | 5.01 | 5.16 | 6.43 | 6.40 | 4.62 | 4.72 | 1.46 | 0.99 | 2.54 | 3.97 | 49.58 |
| *Falmouth | 3.14 | 7.28 | 3.75 | 4.38 | 3.60 | 4.61 | 5.13 | 3.42 | 0.88 | 2.56 | 2.11 | 2.65 | 43.51 |
| *Farmers | 4.01 | 6.96 | 4.51 | 9.12 | 3.40 | 5.54 | 7.59 | 5.21 | 3.99 | 2.00 | 2.00 | 2.25 | 56.58 |
| *Frankfort | 3.82 | 9.97 | 4.16 | 7.20 | 4.04 | 3.63 | 7.02 | 1.51 | 2.03 | 2.90 | 1.41 | 3.46 | 51.18 |
| Franklin | 2.69 | 7.78 | 5.64 | 4.91 | 5.25 | 4.47 | 5.24 | 1.31 | 2.60 | 1.68 | 2.17 | 3.82 | 47.56 |
| *Greensburg | 4.62 | 7.15 | 5.32 | 4.80 | 7.10 | 6.98 | 7.95 | 1.40 | 0.93 | 2.30 | 2.69 | 4.19 | 55.41 |
| *High Bridge | 3.34 | 6.78 | 4.75 | 6.07 | 6.10 | 4.73 | 5.17 | 3.52 | 3.00 | 1.59 | 2.39 | 3.20 | 50.64 |
| *Hopkinsville | 2.49 | 7.85 | 6.18 | 5.42 | 2.75 | 6.01 | 5.92 | 1.63 | 5.70 | 2.25 | 3.60 | 4.00 | 53.80 |
| Irvington | 3.71 | 11.18 | 6.18 | 7.35 | 3.29 | 3.52 | 6.31 | 0.83 | 1.35 | 2.54 | 1.74 | 3.09 | 51.09 |
| Leitchfield | 3.50 | 8.21 | 4.66 | 6.47 | 4.16 | 4.54 | 7.77 | 1.33 | 1.78 | 1.80 | 2.70 | 3.80 | 50.72 |
| *Lexington | 3.35 | 6.86 | 3.97 | 6.72 | 4.15 | 5.41 | 5.98 | 1.26 | 4.88 | 2.05 | 1.96 | 2.77 | 49.36 |
| Loretto | 3.39 | 9.30 | 4.97 | 5.50 | 4.47 | 5.80 | 6.52 | 2.43 | 1.95 | 1.57 | 2.29 | 3.40 | 51.59 |
| *Louisville | 3.25 | 9.64 | 5.08 | 5.86 | 4.15 | 3.59 | 7.23 | 0.83 | 2.18 | 4.06 | 1.73 | 2.81 | 50.41 |
| Lynnville | 2.45 | 9.39 | 6.86 | 6.21 | 5.88 | 3.15 | 4.94 | 0.34 | 5.65 | 1.58 | 3.32 | 4.09 | 53.86 |
| Marion | 3.71 | 10.42 | 5.44 | 5.64 | 4.20 | 5.69 | 2.76 | 0.07 | 3.64 | 1.42 | 2.75 | 3.66 | 49.40 |
| *Maysville | 3.31 | 8.00 | 3.50 | 4.21 | 5.03 | 5.90 | 4.97 | 8.89 | 1.89 | 2.61 | 2.05 | 2.62 | 52.08 |
| Middlesboro | 4.31 | 6.27 | 6.94 | 6.07 | 3.08 | 5.82 | 5.26 | 4.15 | 2.24 | 2.17 | 1.36 | 2.62 | 50.29 |
| *Mt. Sterling | 4.06 | 9.43 | 5.04 | 7.85 | 9.51 | 6.95 | 7.33 | 6.05 | 5.74 | 2.26 | 2.41 | 3.71 | 70.34 |
| *Owensboro | 3.08 | 8.87 | 4.62 | 6.22 | 3.56 | 2.65 | 7.70 | 0.84 | 2.41 | 2.04 | 2.09 | 3.11 | 47.19 |
| Owenton | 2.23 | 9.71 | 4.66 | 4.68 | 5.01 | 2.81 | 9.94 | 3.26 | 0.80 | 3.53 | 1.59 | 3.10 | 50.72 |
| *Paducah | 3.13 | 10.18 | 6.18 | 5.07 | 4.69 | 4.25 | 6.59 | 0.75 | 4.44 | 1.38 | 3.43 | 3.18 | 53.27 |
| *Pikeville | 3.50 | 4.22 | 5.14 | 3.32 | 3.70 | 4.74 | 5.96 | 2.10 | 2.52 | 1.72 | 1.42 | 1.91 | 40.29 |
| *Richmond | 3.24 | 6.32 | 3.92 | 6.34 | 3.47 | 4.97 | 4.52 | 3.73 | 1.20 | 1.35 | 2.13 | 3.54 | 44.73 |
| *St. John | 4.26 | 10.73 | 5.65 | 7.26 | 5.20 | 3.74 | 5.65 | 2.21 | 1.40 | 1.91 | 2.15 | 3.69 | 53.85 |
| Scott | 2.89 | 6.95 | 3.22 | 4.15 | 3.93 | 5.23 | ..... | 3.67 | 1.68 | 3.21 | 1.53 | 3.11 | ..... |
| Shelby City | 3.26 | 8.56 | 5.42 | 5.78 | 4.43 | 5.39 | 4.45 | 5.95 | 2.16 | 1.20 | 2.35 | 2.97 | 51.92 |
| *Shelbyville | 4.10 | 11.82 | 4.42 | 7.71 | 4.79 | 5.39 | 3.89 | 3.36 | 2.58 | 3.37 | 1.73 | 3.31 | 56.47 |
| Taylorsville | 3.57 | 8.66 | 4.61 | 11.02 | 4.13 | 3.57 | 5.60 | 1.28 | 2.08 | 2.49 | 1.38 | 3.09 | 51.48 |
| *Williamsburg | 6.65 | 3.70 | 5.05 | 4.72 | 3.70 | 5.27 | 5.40 | 4.65 | 1.00 | 1.76 | 1.83 | 2.05 | 45.78 |
| *Williamstown | 2.78 | 6.98 | 3.28 | 4.24 | 3.67 | 5.54 | 5.59 | 3.43 | 1.21 | 2.52 | 1.63 | 2.82 | 43.69 |
| *Louisiana.* | | | | | | | | | | | | | |
| Abbeville | 2.46 | 2.58 | 2.10 | 8.84 | 1.92 | 7.35 | 4.16 | 4.81 | 8.53 | 2.35 | 1.59 | 6.72 | 53.41 |
| *Alexandria | 1.02 | 5.40 | 2.73 | 4.09 | 6.44 | 4.96 | 4.00 | 5.85 | 3.35 | 2.58 | 2.32 | 5.59 | 48.33 |
| *Amite | 3.27 | 6.90 | 7.30 | 10.99 | 10.00 | 5.31 | 7.56 | 5.68 | 4.35 | 3.00 | 1.38 | 9.09 | 74.83 |
| *Baton Rouge | 3.17 | 4.51 | 5.39 | 5.49 | 3.90 | 4.37 | 5.85 | 9.00 | 6.16 | 1.40 | 4.00 | 7.73 | 60.97 |
| Burnside | ..... | 4.00 | 6.90 | 6.34 | 7.71 | 9.53 | ..... | 5.13 | 6.33 | 1.94 | 1.70 | 8.98 | ..... |
| *Burrwood | 1.02 | 2.44 | 0.81 | 2.49 | 3.21 | 14.62 | 2.83 | 13.72 | 4.87 | 0.10 | 0.08 | 8.97 | 55.16 |
| Calhoun | 1.30 | 5.84 | 5.16 | ..... | 6.81 | 7.85 | 1.29 | 1.61 | 3.13 | 1.89 | 0.95 | 4.31 | ..... |
| Cameron | 0.29 | 2.30 | 1.26 | 5.99 | 2.75 | 5.35 | 2.05 | ..... | ..... | 2.35 | ..... | ..... | ..... |
| *Cheneyville | 1.05 | 8.08 | 2.45 | 3.47 | 8.37 | 4.18 | 2.18 | 5.23 | 3.76 | 1.42 | 1.35 | 5.03 | 46.57 |
| *Clinton | 2.64 | 4.77 | 2.85 | 6.65 | 8.53 | 6.31 | 6.33 | 5.06 | 8.27 | 1.39 | 1.19 | 5.02 | 59.01 |
| Collinston | ..... | ..... | ..... | ..... | ..... | 3.33 | 4.78 | 2.32 | 2.50 | 1.15 | ..... | 4.25 | ..... |
| *Covington | 3.16 | 4.27 | 7.22 | 5.28 | 8.73 | 6.77 | 4.66 | 6.19 | 5.94 | 2.48 | 0.53 | 9.53 | 64.76 |
| Dodson | 0.91 | 5.52 | 3.32 | 4.99 | 10.21 | 3.69 | 1.63 | 2.61 | 2.92 | 2.48 | 1.60 | 6.10 | 45.98 |
| *Donaldsonville | 4.21 | 2.69 | 5.98 | 6.33 | 3.73 | 11.25 | 4.58 | 7.40 | 5.00 | 1.40 | 3.15 | 8.20 | 63.92 |
| Farmerville | 0.88 | 6.16 | 4.74 | 10.71 | 7.51 | 2.46 | 2.43 | 1.32 | 4.41 | 1.76 | 1.86 | 6.83 | 51.07 |
| Ferriday | 0.45 | 10.12 | 2.85 | 5.27 | 11.03 | 6.40 | 1.46 | 4.71 | 4.33 | 2.85 | 2.29 | 4.10 | 55.86 |
| *Franklin | 2.19 | 2.94 | 2.53 | 6.22 | 1.70 | 11.62 | 8.29 | 7.24 | 7.46 | 1.98 | 1.53 | 6.63 | 60.33 |
| *Grand Cane | 0.57 | 5.30 | 2.82 | 3.36 | 3.37 | 3.05 | 1.92 | 4.60 | 2.65 | 4.10 | 3.16 | 4.89 | 39.79 |
| Grand Coteau | 2.46 | ..... | 2.12 | 3.95 | 4.34 | 4.94 | 4.80 | 9.07 | 5.14 | 2.75 | 0.94 | 6.28 | ..... |
| Hammond | ..... | ..... | ..... | 8.30 | 8.24 | 6.81 | 4.90 | 4.48 | 7.59 | 1.13 | 1.32 | 4.89 | ..... |
| Houma | 3.41 | 5.24 | 2.61 | 5.05 | 2.61 | 12.68 | 3.27 | ..... | 6.56 | ..... | ..... | ..... | ..... |
| *Jennings | 1.88 | 3.51 | 2.03 | 2.34 | 1.55 | 5.97 | 4.73 | 11.42 | 2.94 | 1.82 | 4.18 | 7.84 | 50.21 |
| *Lafayette | 2.46 | 3.09 | 1.16 | 4.75 | 3.35 | 8.02 | 3.52 | 8.54 | 5.43 | 2.26 | 0.95 | 6.72 | 50.25 |
| *Lake Charles | 2.05 | 3.27 | 1.30 | 1.93 | 2.03 | 6.29 | 5.24 | 10.12 | 4.28 | 3.34 | 2.10 | 6.39 | 48.29 |
| Lakeside | 0.79 | ..... | ..... | ..... | 1.22 | 4.75 | 6.38 | 3.71 | 2.97 | 2.07 | 1.85 | ..... | ..... |
| Lawrence | 1.67 | 2.58 | 1.66 | 5.56 | 2.93 | 8.61 | 5.69 | 7.68 | 5.22 | 2.78 | 2.20 | 6.68 | 53.26 |
| Liberty Hill | 1.20 | 5.17 | 4.31 | 4.51 | 5.50 | 2.46 | 1.50 | 4.58 | 3.70 | 1.49 | 0.96 | 5.73 | 41.11 |
| *Logansport | 0.91 | 4.20 | 4.04 | 3.50 | 4.53 | 1.89 | 2.13 | 2.34 | 2.10 | 2.46 | 1.02 | 7.26 | 36.38 |
| *Melville | 2.90 | 7.18 | 1.56 | 4.20 | 7.39 | 4.05 | 2.60 | 6.94 | 7.54 | 1.98 | 1.67 | 6.03 | 54.04 |
| *Minden | 1.17 | 5.01 | 5.81 | 4.10 | 5.73 | 1.44 | 1.87 | 2.18 | 2.10 | 1.60 | 1.74 | 7.93 | 40.68 |
| *Monroe | 0.87 | 6.92 | 3.94 | 4.56 | 10.33 | 2.53 | 1.78 | 1.99 | 2.54 | 1.60 | 0.86 | 4.61 | 42.53 |
| *Morgan City | 2.64 | 2.72 | 3.08 | 3.36 | 2.30 | 11.58 | 2.36 | 4.38 | 4.42 | 1.26 | 2.80 | 4.99 | 45.89 |
| Newellton | 1.30 | 8.82 | 4.55 | 6.65 | 12.38 | 5.00 | 3.85 | 3.90 | 3.00 | 1.81 | 1.85 | 4.10 | 57.21 |
| New Iberia | 3.40 | 4.35 | 3.85 | 3.90 | 2.75 | 10.35 | 5.75 | 6.80 | 10.00 | 2.70 | 2.30 | 5.93 | 62.68 |
| *New Orleans (1) | 3.72 | 5.61 | 4.57 | 8.08 | 4.61 | 8.82 | 4.85 | 8.03 | 7.68 | 3.63 | 1.18 | 7.40 | 68.18 |
| New Orleans (2) | 2.97 | 5.35 | 4.64 | 7.02 | 3.89 | 11.80 | 3.71 | 8.96 | 6.54 | 3.70 | 1.59 | 8.48 | 68.65 |
| New Orleans (3) | 3.44 | 5.86 | 4.61 | 7.32 | 5.29 | 7.50 | 5.18 | 6.83 | 8.39 | 3.58 | 1.24 | 7.26 | 66.50 |
| New Orleans (4) | 2.79 | 5.12 | 4.48 | 7.42 | 3.01 | 11.53 | 3.47 | 8.62 | 6.41 | 3.57 | 1.38 | 7.97 | 65.77 |
| New Orleans (5) | 3.28 | 5.08 | 4.23 | 7.61 | 4.11 | 9.59 | 4.43 | 8.02 | 7.08 | 5.36 | 1.52 | 7.24 | 67.55 |
| New Orleans (6) | 3.72 | 5.58 | 4.71 | 7.63 | 4.52 | 9.15 | 4.73 | 7.54 | 7.08 | 3.70 | 1.21 | 7.25 | 66.82 |
| New Orleans (7) | 3.41 | 5.60 | 4.44 | 7.10 | 4.74 | 8.69 | 6.40 | 6.45 | 5.59 | 3.83 | 1.31 | 7.26 | 64.82 |
| New Orleans (8) | 3.32 | 5.68 | 4.22 | 7.68 | 4.86 | 9.82 | 5.31 | 7.94 | 4.61 | 3.38 | 0.98 | 6.67 | 64.47 |
| *Opelousas | 3.15 | 5.63 | 2.77 | 3.06 | 6.85 | 5.74 | 2.31 | 10.23 | 6.15 | 2.20 | 1.37 | 7.77 | 57.23 |
| *Pearl River | 3.20 | 5.05 | 5.78 | 5.53 | 4.20 | 16.50 | 5.53 | 8.63 | 7.38 | 3.86 | 1.42 | 8.64 | 75.72 |
| Plain Dealing | 1.04 | 5.31 | 1.63 | 4.26 | 9.28 | 2.94 | 4.83 | 4.25 | 1.62 | 1.35 | 1.42 | 10.09 | 48.02 |
| *Rayne | 2.93 | 3.79 | 1.10 | 3.39 | 2.05 | 3.87 | 6.27 | 7.87 | 3.75 | 2.90 | 2.54 | 7.05 | 46.61 |
| Reserve | 2.29 | 3.30 | 4.46 | 6.05 | 4.28 | 7.10 | 7.09 | 5.22 | 5.74 | 0.42 | 0.00 | 7.34 | 53.29 |
| *Robeline | 1.12 | 4.99 | 2.34 | 2.64 | 11.36 | 3.85 | 2.05 | 6.10 | 2.03 | 2.05 | 0.63 | ..... | ..... |
| Ruston | 0.70 | 5.06 | 3.86 | 5.65 | 6.99 | 6.19 | 0.85 | 3.10 | 2.00 | 2.00 | ..... | 7.05 | ..... |
| *Schriever | 2.50 | 4.49 | 5.06 | 4.81 | 1.66 | 13.55 | 5.37 | 9.90 | 9.74 | 1.44 | 0.33 | 4.98 | 63.83 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Louisiana*—Continued. | | | | | | | | | | | | | |
| *Shreveport | 0.63 | 3.90 | 2.59 | 3.39 | 5.30 | 2.03 | 1.42 | 2.99 | 1.46 | 1.27 | 0.77 | 6.38 | 32.13 |
| *Simmesport | 2.20 | 6.38 | 2.54 | 3.78 | 8.94 | 6.24 | 3.37 | 7.94 | 4.25 | 1.40 | 1.64 | 4.88 | 53.56 |
| Southern University Farm | 3.65 | 4.65 | 5.61 | 6.70 | 4.44 | 8.35 | 5.06 | 7.01 | 5.90 | 3.50 | 1.52 | 6.21 | 62.60 |
| St. Francisville | 3.10 | 6.49 | ..... | 8.23 | 8.59 | 6.37 | 3.18 | 5.29 | 14.07 | 1.50 | 1.31 | 5.30 | ..... |
| Sugartown | 0.24 | 4.44 | 1.20 | 1.92 | 4.14 | 4.64 | 3.03 | 9.32 | 0.61 | ..... | 2.20 | 4.99 | ..... |
| Tallulah | ..... | ..... | ..... | ..... | ..... | 6.61 | 2.13 | 1.86 | 3.75 | 2.33 | 2.19 | 5.51 | ..... |
| *Maine.* | | | | | | | | | | | | | |
| Bar Harbor | 7.10 | 6.07 | 5.85 | 5.11 | 4.28 | 1.15 | 2.66 | 1.53 | 8.35 | 1.81 | 5.77 | 2.03 | 51.71 |
| Cornish | 5.08 | 5.79 | 4.38 | 3.92 | 4.03 | 2.56 | 3.13 | 2.34 | 5.54 | 1.17 | 2.06 | 3.65 | 43.68 |
| Danforth | 5.98 | 4.12 | 4.23 | 4.20 | 1.58 | 3.30 | 2.02 | 1.95 | 7.10 | 2.14 | 3.92 | 2.34 | 42.88 |
| *Eastport | 7.05 | 4.76 | 5.10 | 3.86 | 1.56 | 1.59 | 3.37 | 1.61 | 6.40 | 2.54 | 3.62 | 1.64 | 43.10 |
| Fairfield | 5.91 | 3.94 | 2.73 | 3.05 | 2.43 | 2.34 | 1.77 | 1.17 | 5.16 | 1.14 | ..... | 1.48 | ..... |
| Farmington | 5.79 | 6.32 | 3.92 | 3.94 | 3.23 | 1.90 | 2.05 | 2.60 | 7.74 | 1.54 | 3.82 | 3.02 | 45.87 |
| Gardiner | 5.66 | 4.95 | 3.97 | 3.81 | 2.55 | 2.90 | 2.19 | 1.59 | 6.39 | 1.88 | 3.88 | 2.02 | 42.79 |
| *Greenville | 4.51 | 4.80 | 4.76 | 4.22 | 2.72 | 3.60 | 3.34 | 3.00 | 10.12 | 1.73 | 4.57 | 2.59 | 49.96 |
| Houlton | 3.64 | 3.70 | 2.95 | 4.09 | ..... | 3.20 | 2.15 | 1.65 | 6.14 | 1.25 | 2.34 | 2.05 | ..... |
| Lewiston | 6.75 | 5.59 | 4.14 | 3.59 | 2.75 | 2.29 | 2.47 | 1.25 | 6.14 | 1.84 | 2.79 | 2.99 | 42.59 |
| Madison | 6.57 | 5.59 | 3.80 | 3.91 | 2.75 | 2.36 | 2.25 | 2.68 | 10.04 | 1.66 | 4.07 | 2.65 | 48.33 |
| *Millinocket | 5.24 | 5.36 | 4.24 | 4.64 | 3.05 | 2.91 | 3.09 | 3.07 | 9.70 | 1.80 | 4.92 | 2.07 | 50.09 |
| North Bridgton | 6.12 | 5.79 | 3.78 | 3.68 | 3.55 | 2.42 | 2.00 | 1.51 | 6.13 | 1.34 | 2.71 | 2.95 | 41.98 |
| Oquossoc | 5.20 | 5.25 | 4.75 | 3.95 | ..... | 2.40 | 3.00 | 2.60 | ..... | ..... | ..... | 1.95 | ..... |
| Orono | 5.87 | 5.32 | 5.23 | 4.42 | 2.21 | 2.11 | 2.37 | 1.82 | 9.09 | 2.43 | 4.14 | 1.98 | 46.99 |
| Patten | 5.80 | 4.75 | 4.16 | 5.14 | 1.79 | 2.50 | 6.42 | 3.91 | 9.71 | 2.38 | 4.19 | 1.95 | 52.70 |
| *Portland | 4.71 | 5.07 | 2.76 | 3.13 | 2.95 | 2.33 | 2.14 | 1.68 | 4.68 | 1.50 | 2.83 | 2.06 | 35.83 |
| Rumford Falls | 5.39 | 6.12 | 4.04 | 3.49 | 3.51 | 2.11 | 2.34 | 1.79 | 7.08 | 1.03 | 3.31 | 2.13 | 42.34 |
| The Forks | 4.36 | 4.04 | 3.85 | 4.65 | 3.14 | 2.22 | 3.50 | 3.35 | 7.56 | 1.00 | 4.34 | 2.05 | 44.06 |
| *Winslow | 5.16 | 4.80 | 3.17 | 3.87 | 2.59 | 2.54 | 1.95 | 1.76 | 6.71 | 1.83 | 4.35 | 1.48 | 40.26 |
| *Maryland.* | | | | | | | | | | | | | |
| Annapolis | 2.97 | 5.40 | 5.82 | 2.94 | 5.23 | 7.07 | 1.65 | 3.80 | 5.50 | 1.85 | 2.70 | 5.40 | 50.33 |
| Bachman's Valley | 2.50 | 7.10 | 4.30 | 5.79 | 4.96 | 10.45 | 0.77 | 1.15 | 2.66 | 0.76 | 0.36 | ..... | ..... |
| *Baltimore | 2.78 | 3.25 | 4.58 | 2.18 | 4.59 | 4.38 | 1.31 | 0.86 | 3.97 | 1.03 | 1.15 | 4.62 | 34.70 |
| Cambridge | 3.34 | 3.43 | 5.61 | 3.85 | 3.39 | 7.96 | 2.71 | 2.66 | 2.90 | 1.22 | 2.27 | 3.80 | 43.14 |
| Cheltenham | 3.12 | 3.46 | 4.61 | 2.52 | 2.98 | 3.90 | 1.57 | 3.04 | 3.84 | 1.22 | 1.37 | 3.73 | 35.36 |
| Chestertown | 3.20 | 3.95 | 3.63 | 2.12 | 3.25 | 5.23 | 2.05 | 1.00 | 3.11 | 1.65 | 2.32 | 4.19 | 35.70 |
| Chewsville | 2.03 | 3.56 | 2.16 | 3.48 | 2.29 | 3.19 | 1.10 | 4.62 | 1.18 | 2.16 | 0.71 | 2.34 | 28.82 |
| Clear Spring | 2.20 | 4.53 | 2.45 | 4.06 | 2.16 | 2.72 | 0.20 | 4.01 | 1.53 | 2.47 | ..... | 4.01 | ..... |
| Coleman | 3.27 | 3.75 | 3.93 | 2.04 | 3.22 | 4.12 | 1.30 | 0.72 | 3.52 | 1.28 | 1.74 | 5.47 | 34.36 |
| College Park (Ex. Sta.) | ..... | 3.03 | 3.79 | 2.56 | 2.91 | 4.75 | 1.89 | 2.10 | ..... | ..... | 0.78 | 2.90 | ..... |
| *Cumberland | 2.56 | 3.26 | 1.75 | 5.64 | 2.10 | 4.66 | 0.77 | 5.07 | ..... | 3.62 | 0.27 | 2.81 | ..... |
| Darlington | 3.00 | 4.22 | 4.05 | 2.36 | 3.64 | 3.70 | 1.45 | 0.51 | 4.21 | 1.64 | 1.72 | 5.63 | 36.13 |
| Deer Park | 3.60 | 5.27 | 4.60 | 6.16 | 3.22 | 7.98 | 3.46 | 4.65 | 3.05 | ..... | 1.06 | 3.89 | ..... |
| Denton | 2.09 | 2.16 | 3.41 | 3.96 | 4.63 | 4.18 | 3.18 | 2.01 | 5.27 | 1.33 | 2.24 | 3.15 | 37.61 |
| Easton | 2.53 | 2.51 | 4.30 | 3.13 | 3.09 | 6.82 | 4.92 | 2.53 | 3.66 | 1.46 | 1.69 | 3.01 | 39.65 |
| Emmitsburg | 2.38 | 5.24 | 4.22 | 4.07 | 2.41 | ..... | ..... | ..... | ..... | 2.33 | 0.58 | 4.41 | ..... |
| Fallston | 3.25 | 3.74 | 5.02 | 2.46 | 4.16 | 6.56 | 1.21 | 0.97 | 4.16 | 0.92 | 1.28 | 5.14 | 38.87 |
| Frederick | 2.83 | 4.33 | 2.57 | 3.75 | 3.47 | 3.52 | 1.02 | 3.12 | 4.74 | 1.09 | 0.72 | 4.56 | 35.72 |
| Frostburg | 3.24 | 3.02 | 2.33 | 4.96 | 3.11 | 4.68 | 1.44 | 5.84 | ..... | 4.07 | 0.65 | 3.48 | ..... |
| Grantsville | 2.90 | 3.92 | 2.31 | 5.39 | 2.87 | 4.00 | 1.25 | 6.67 | 2.70 | 4.09 | 0.83 | 5.62 | 42.55 |
| Great Falls | 3.02 | 2.47 | 3.37 | 3.47 | 2.81 | 4.00 | 1.22 | 3.86 | 4.08 | 0.51 | 0.66 | 3.10 | 32.57 |
| Green Spring Furnace | 2.19 | 4.02 | 2.20 | 3.49 | 2.03 | 4.32 | 1.27 | 3.92 | 1.50 | 2.56 | 0.55 | 2.58 | 30.63 |
| Keedysville | 2.58 | 3.47 | 2.60 | 3.81 | 3.38 | 3.80 | 1.22 | 3.89 | 2.32 | 2.29 | 0.50 | 2.70 | 32.56 |
| Lake Montebello | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.92 | 0.99 | 1.30 | 3.82 | ..... |
| Laurel | 3.50 | 3.82 | 5.73 | 2.38 | 5.07 | 5.41 | 1.59 | 1.21 | 3.35 | 1.15 | 0.98 | 4.47 | 38.66 |
| Monrovia | 2.64 | 3.26 | 2.72 | 3.65 | 4.50 | 4.43 | 0.64 | 2.78 | 3.89 | 0.72 | 1.19 | 2.78 | 33.20 |
| Oakland | 2.92 | 4.58 | 3.74 | 6.16 | 3.74 | 7.01 | 3.06 | 4.97 | 3.56 | 4.41 | 1.34 | 2.78 | 48.27 |
| Pocomoke City | 2.56 | 2.95 | 3.09 | 3.15 | 3.13 | 4.05 | 2.41 | 4.73 | 2.67 | 1.46 | 1.15 | 3.37 | 34.72 |
| Porto Bello | 2.81 | 2.14 | 3.92 | 2.99 | 4.39 | 3.78 | 0.84 | 4.70 | 2.82 | ..... | 1.20 | 3.00 | ..... |
| Princess Anne | 2.46 | 2.96 | 3.50 | 4.11 | 3.25 | 5.47 | 1.00 | 0.40 | 3.48 | 1.65 | 1.69 | 2.51 | 38.48 |
| Rockville | ..... | 2.41 | 4.32 | 2.89 | 3.46 | ..... | 0.37 | 3.92 | 2.82 | 0.92 | 0.93 | 3.16 | ..... |
| Salisbury | 3.19 | 3.55 | 3.90 | 5.59 | 4.62 | 5.12 | 2.15 | 4.44 | 3.23 | 1.31 | ..... | 3.88 | ..... |
| Sanatorium | ..... | ..... | ..... | ..... | 2.84 | 5.96 | 0.31 | 2.24 | 1.69 | 2.53 | 0.70 | 3.77 | ..... |
| Solomons | 2.43 | 1.93 | 3.06 | 2.50 | 2.54 | 3.79 | 1.44 | 4.61 | 3.22 | 0.72 | 1.07 | 1.72 | 29.03 |
| Sudlersville | 3.17 | 3.62 | 4.26 | 2.74 | 3.02 | 5.01 | 2.61 | 1.61 | 5.71 | 1.35 | 2.87 | 5.46 | 41.43 |
| Takoma Park | ..... | 3.57 | 4.35 | 2.88 | 2.83 | 5.38 | 1.48 | 1.40 | 3.89 | 1.00 | 0.93 | 3.54 | ..... |
| Taneytown | 1.69 | 2.67 | 2.76 | 3.01 | 3.12 | 4.71 | 0.92 | 3.02 | 2.10 | 1.90 | 0.61 | 1.79 | 28.30 |
| Towson | 3.12 | 3.75 | 4.58 | 2.44 | 4.56 | 5.94 | 0.97 | 1.09 | 4.24 | 1.29 | 1.10 | 4.65 | 37.73 |
| Westernport | 1.48 | 2.68 | 1.84 | 5.11 | 3.20 | 5.45 | 1.27 | 4.19 | 2.00 | 3.68 | 0.21 | 1.74 | 32.85 |
| Woodstock | 3.41 | 2.19 | ..... | 2.46 | 4.46 | ..... | ..... | 0.85 | 3.95 | 0.79 | ..... | 3.31 | ..... |
| *Massachusetts.* | | | | | | | | | | | | | |
| Amherst | 3.56 | 5.16 | 3.01 | 5.53 | 3.36 | 2.24 | 2.24 | 3.80 | 4.99 | 1.23 | 1.06 | 2.95 | 39.13 |
| Bedford | 3.77 | 4.75 | 3.17 | 4.63 | 2.25 | 2.53 | 3.52 | 2.26 | ..... | 1.19 | 2.93 | 3.08 | ..... |
| Blue Hill | 4.54 | 5.11 | 4.42 | 4.79 | 2.51 | 3.24 | 1.28 | 4.22 | 4.42 | 1.46 | 3.82 | 3.80 | 43.61 |
| *Boston | 3.94 | 4.71 | 3.28 | 3.92 | 2.33 | 4.45 | 0.97 | 3.55 | 5.15 | 1.07 | 4.11 | 3.19 | 40.67 |
| Chestnut Hill | 4.79 | 6.61 | 4.27 | 3.98 | 2.44 | 4.12 | 1.10 | 4.11 | 5.79 | 1.58 | 4.89 | 4.39 | 48.07 |
| Concord | 4.09 | 5.21 | 3.22 | 4.85 | 2.35 | 3.30 | 2.76 | 2.48 | 4.89 | 1.11 | 3.06 | 3.13 | 41.45 |
| Fall River | 2.78 | 5.58 | 3.82 | 5.94 | 2.82 | 1.04 | 0.23 | 2.30 | 3.06 | 1.76 | 3.47 | 3.26 | 36.26 |
| Fitchburg | 2.93 | 5.71 | 3.62 | 4.43 | 1.98 | 2.84 | 2.48 | 3.08 | 4.11 | 1.34 | 1.82 | 4.01 | 38.35 |
| Framingham | 4.14 | 5.77 | 4.07 | 4.02 | 2.31 | 2.89 | 1.63 | 2.82 | 4.55 | 1.09 | 3.24 | 3.94 | 40.47 |
| Hyannis | 5.12 | 5.56 | 3.81 | 4.35 | 2.57 | 1.31 | 0.55 | 2.26 | 4.61 | 3.61 | 6.76 | 2.66 | 43.17 |
| Jefferson | 4.14 | 6.29 | 4.57 | 5.66 | 2.31 | 3.22 | 5.29 | 4.22 | 4.13 | 2.03 | 1.89 | 4.41 | 48.16 |
| Lawrence | 4.03 | 4.77 | 3.53 | 4.23 | 1.93 | 1.46 | 2.62 | 1.80 | 4.01 | 1.02 | 3.46 | 3.68 | 36.53 |
| Leominster | 3.65 | 6.62 | 4.15 | 5.34 | 2.82 | 3.90 | 3.36 | 3.15 | 4.12 | 1.49 | 2.01 | 3.79 | 44.10 |
| Lowell | 4.17 | 5.79 | 3.51 | 5.53 | 3.11 | 2.13 | 2.52 | 2.46 | 4.21 | 1.20 | 2.65 | 4.08 | 41.36 |
| Middleboro | 4.29 | 5.87 | 3.94 | 6.14 | 2.75 | 1.53 | 1.33 | 2.37 | 4.33 | 1.73 | 3.33 | 3.28 | 40.89 |
| Monson | 3.44 | 5.23 | 4.08 | 5.74 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.35 | ..... |
| *Nantucket | 4.54 | 4.88 | 3.34 | 4.40 | 4.32 | 2.30 | 0.98 | 1.72 | 3.71 | 4.40 | 6.39 | 1.85 | 42.83 |
| Plymouth | 4.74 | 6.15 | 3.41 | 6.13 | 2.52 | 2.17 | 1.89 | 2.11 | 4.58 | 2.26 | 6.80 | 2.03 | 44.79 |
| Princeton | 3.29 | 6.03 | 3.94 | 5.25 | 2.94 | 2.74 | 4.06 | 3.39 | 3.46 | 1.72 | 1.59 | 3.84 | 42.25 |
| Provincetown | 4.18 | 4.69 | 3.78 | 4.92 | 3.08 | 0.69 | 0.97 | 1.80 | 4.75 | 2.86 | 5.51 | 3.06 | 41.29 |
| Somerset | 4.81 | 5.73 | 3.85 | 5.80 | 2.87 | 1.08 | 0.54 | 2.29 | 3.48 | 1.84 | 3.65 | 2.53 | 38.47 |
| Sterling | 3.21 | 5.86 | 4.35 | 4.84 | 2.44 | 3.05 | 3.59 | 3.32 | 3.30 | 1.86 | 1.23 | 4.09 | 41.14 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Massachusetts*—Continued. | | | | | | | | | | | | | |
| Taunton | 4.91 | 6.35 | 4.67 | 6.89 | 2.69 | 2.03 | 2.16 | 3.43 | 4.90 | 1.73 | 4.12 | 3.89 | 47.77 |
| Westboro | 3.89 | 6.01 | 3.92 | 5.04 | 2.76 | 1.92 | 1.65 | 3.15 | 4.74 | 1.50 | 2.91 | 4.00 | 41.49 |
| Williamstown | 3.69 | 4.46 | 2.96 | 3.12 | 2.84 | 3.54 | 1.51 | 5.37 | 4.27 | 1.33 | 1.49 | 1.70 | 36.28 |
| Winchendon | 3.94 | 5.13 | ..... | 5.07 | 2.59 | 2.80 | 2.66 | 3.51 | 4.09 | 1.19 | 2.23 | 2.47 | ..... |
| Worcester | 2.39 | 4.94 | 3.43 | 4.80 | 2.63 | 3.00 | 1.14 | 2.29 | 4.07 | 1.08 | 1.49 | 3.32 | 34.58 |
| *Michigan.* | | | | | | | | | | | | | |
| Adrian | 2.97 | 2.67 | 1.93 | 4.04 | 3.79 | 2.99 | 2.73 | 1.32 | 1.43 | 1.47 | 4.92 | 3.08 | 33.34 |
| Agricultural College | 2.16 | 2.36 | 0.90 | 5.96 | 2.44 | 2.86 | 2.56 | 1.61 | 1.51 | 0.71 | 3.74 | 2.91 | 29.72 |
| Allegan | 3.13 | 1.60 | 1.53 | 8.17 | 3.50 | 5.09 | 2.75 | 5.02 | 3.64 | 1.62 | 3.92 | 7.74 | 47.71 |
| Alma | 2.39 | 4.53 | 2.18 | 8.30 | 2.60 | 4.28 | 2.21 | 1.32 | 3.59 | 0.82 | 2.93 | 4.17 | 39.32 |
| *Alpena | 1.18 | 2.54 | 1.78 | 4.05 | 1.83 | 0.91 | 2.37 | 1.23 | 1.86 | 0.79 | 2.21 | 3.00 | 23.75 |
| *Ann Arbor | 2.50 | 3.83 | 1.22 | 4.10 | 2.25 | 4.21 | 2.28 | 1.25 | 0.92 | 1.27 | 4.34 | 1.81 | 29.98 |
| Arbela | 2.60 | 2.52 | 2.01 | 6.47 | 4.13 | 2.70 | 1.20 | 2.02 | 1.30 | 1.32 | 5.31 | 3.78 | 35.36 |
| Ball Mountain | 2.49 | 2.53 | 2.12 | 5.93 | 2.59 | 3.76 | 1.82 | 2.96 | ..... | ..... | ..... | ..... | ..... |
| Baraga | ..... | 2.25 | 1.60 | 1.25 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.35 | ..... |
| *Battle Creek | 2.68 | 4.46 | 1.62 | 5.80 | 2.92 | 5.22 | 3.42 | 3.51 | 2.74 | 1.03 | 4.88 | 2.39 | 40.67 |
| Bay City | 3.30 | 6.25 | 2.00 | 6.30 | 3.55 | 3.45 | 4.15 | 0.73 | 2.65 | 1.60 | 4.80 | 5.90 | 44.68 |
| Benzonia | ..... | ..... | 3.28 | 4.98 | 2.36 | 3.14 | 3.65 | 0.46 | 2.95 | 3.60 | 4.28 | 5.19 | ..... |
| Bergland | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.97 | 1.82 | 3.64 | 3.05 | 1.54 | ..... |
| Berlin | 2.32 | 2.68 | 1.94 | 5.05 | 2.64 | 3.42 | 2.63 | 3.02 | 1.00 | 1.80 | 4.01 | 2.14 | 32.65 |
| Big Rapids | 2.63 | 2.13 | 2.50 | 9.03 | 1.94 | 3.17 | 2.08 | 2.02 | 2.28 | 1.96 | 4.09 | 4.22 | 38.05 |
| Blaney | 1.60 | 2.76 | 4.10 | 3.80 | 4.40 | 2.15 | 4.60 | 2.70 | 1.38 | 1.83 | 0.54 | 2.67 | 32.53 |
| Bloomingdale | 1.50 | 3.70 | 2.05 | 5.78 | 2.36 | 5.73 | 2.58 | 3.69 | 3.05 | 1.42 | 2.51 | 5.14 | 39.51 |
| Cadillac | 2.19 | 2.65 | 2.67 | 7.24 | 2.23 | 3.79 | 1.66 | 1.17 | 2.28 | 2.19 | 3.23 | 2.47 | 33.77 |
| Calumet | 2.26 | 2.28 | 1.24 | 2.70 | 2.39 | 1.28 | 6.69 | 1.60 | 2.00 | 3.02 | 3.48 | 4.53 | 33.47 |
| Cassopolis | 2.54 | 2.99 | 2.33 | 6.79 | 3.71 | 5.60 | 4.20 | 3.47 | 2.48 | 1.55 | 3.61 | 2.00 | 41.27 |
| Charlevoix | 2.20 | 1.41 | 1.00 | 4.86 | 2.62 | 0.98 | 2.32 | 2.29 | 1.84 | 1.30 | 2.06 | 4.37 | 27.25 |
| Charlotte | 2.43 | ..... | ..... | 5.69 | 2.06 | ..... | ..... | 2.01 | 1.81 | 0.93 | 4.74 | 1.70 | ..... |
| Chatham | 0.93 | 2.58 | 1.07 | 2.09 | 1.61 | 4.25 | 5.42 | 2.17 | 2.01 | 1.94 | 2.37 | 3.72 | 30.16 |
| Cheboygan | 0.88 | 1.95 | 2.05 | 5.95 | 2.12 | 1.66 | 2.70 | 2.80 | 2.25 | 2.10 | 3.23 | 2.12 | 29.81 |
| Clinton | 2.20 | 3.94 | 1.42 | 4.18 | 2.64 | 2.97 | 2.15 | 1.12 | 1.54 | 1.24 | 4.58 | 2.11 | 30.09 |
| Coldwater | 1.87 | 3.82 | 1.51 | 4.88 | 3.07 | 5.00 | 2.59 | 4.94 | 2.10 | 1.48 | 5.13 | 2.66 | 39.05 |
| Concord | 2.62 | 2.90 | ..... | 6.42 | 2.78 | 7.30 | 2.55 | 1.42 | 1.95 | 1.40 | ..... | 2.38 | ..... |
| Croton | 2.10 | 2.45 | 0.70 | 11.04 | 2.49 | 3.34 | 1.88 | 2.09 | 1.90 | 1.58 | 2.99 | 3.44 | 36.00 |
| Deer Park | 1.10 | 2.20 | 0.95 | 2.50 | 1.60 | 0.80 | 3.57 | 3.00 | 1.51 | 1.18 | 2.85 | 3.95 | 25.21 |
| Detour | ..... | ..... | ..... | ..... | 1.53 | 0.51 | 0.90 | 1.87 | 3.65 | 3.60 | 2.50 | ..... | ..... |
| *Detroit | 2.51 | 4.26 | 1.71 | 4.25 | 3.78 | 4.95 | 5.94 | 3.75 | 0.75 | 1.46 | 4.70 | 2.59 | 40.65 |
| Durand | 2.01 | 2.05 | 1.18 | 4.65 | 2.92 | 4.24 | 1.17 | ..... | 0.97 | 0.80 | 3.41 | 1.64 | ..... |
| Eagle Harbor | ..... | 2.03 | 1.55 | 1.54 | 2.05 | 0.92 | 5.72 | 1.61 | 1.71 | 1.72 | 4.31 | 3.01 | ..... |
| East Tawas | 1.94 | 3.88 | 0.95 | 4.72 | 1.73 | 1.65 | 2.40 | 0.92 | 2.85 | 0.70 | 2.40 | ..... | ..... |
| Eloise | 2.04 | 4.62 | 1.57 | 4.19 | 3.20 | 3.22 | 3.93 | 1.65 | 1.55 | ..... | ..... | ..... | ..... |
| *Escanaba | 0.74 | 3.01 | 1.70 | 4.81 | 1.34 | 2.44 | 6.19 | 1.48 | 1.48 | 1.40 | 3.49 | 3.57 | 31.65 |
| Ewen | 0.98 | 3.85 | 3.50 | 4.11 | 3.57 | 2.79 | 4.52 | ..... | 0.61 | 3.85 | 5.91 | 2.75 | ..... |
| *Flint | 1.45 | 2.25 | 1.35 | 4.15 | 3.36 | 3.70 | 2.58 | 2.04 | 0.85 | 0.73 | 4.47 | 1.66 | 28.59 |
| Frankfort | 2.60 | 1.95 | 1.80 | 4.50 | 3.16 | ..... | 1.66 | 1.94 | 3.65 | 1.95 | 2.40 | 6.30 | ..... |
| Ganges | 1.30 | 2.31 | 1.31 | 7.89 | 4.01 | 5.24 | 2.53 | 3.25 | 2.76 | 1.68 | 3.70 | 5.49 | 41.47 |
| Gaylord | 0.81 | ..... | 0.59 | 1.19 | 0.63 | ..... | 0.49 | ..... | ..... | ..... | ..... | ..... | ..... |
| Gladwin | 1.55 | 1.60 | ..... | 3.95 | 1.70 | 2.30 | 0.95 | ..... | 4.55 | 0.50 | 3.60 | 3.25 | ..... |
| *Grand Haven | 2.44 | 3.12 | 1.29 | 8.43 | 3.17 | 5.03 | 0.76 | 3.24 | 2.20 | 1.57 | 2.47 | 4.29 | 38.01 |
| Grand Marais | 1.37 | 2.25 | 1.87 | 1.98 | 2.75 | ..... | 2.97 | 0.49 | ..... | 3.02 | 2.08 | ..... | ..... |
| *Grand Rapids | 2.20 | 3.06 | 1.37 | 8.29 | 2.36 | 7.50 | 0.96 | 4.39 | 2.11 | 1.14 | 3.23 | 3.10 | 39.71 |
| Grape | 2.41 | 3.34 | 1.51 | 4.06 | 3.64 | 2.45 | 2.89 | 1.64 | 1.20 | 1.88 | 4.04 | 2.06 | 31.12 |
| Grass Lake | 1.76 | 3.23 | 1.14 | 4.03 | 2.26 | 4.57 | 2.92 | 1.60 | 1.39 | 0.78 | 4.03 | 2.39 | 30.09 |
| Grayling | 1.45 | 3.00 | 1.60 | 8.00 | 4.50 | 3.00 | 6.80 | 2.90 | 3.00 | 0.82 | 3.30 | 3.86 | 41.88 |
| Harbor Beach | 3.53 | 3.40 | 0.95 | 3.60 | 1.81 | 2.30 | 2.60 | 2.25 | 1.85 | 0.65 | 3.20 | 3.40 | 29.54 |
| Harrison | 1.95 | 2.26 | ..... | 6.04 | 0.74 | 2.98 | 1.20 | 1.75 | 1.79 | 1.36 | 2.00 | 3.10 | ..... |
| Harrisville | 2.03 | 3.10 | 1.94 | 4.74 | 3.32 | 0.55 | 2.98 | 1.21 | 2.20 | 0.78 | 2.32 | 4.62 | 29.79 |
| Hart | 1.00 | 1.10 | 0.40 | 5.90 | 2.92 | 4.01 | 0.97 | 2.14 | 1.76 | ..... | ..... | 3.33 | ..... |
| Hayes | 3.09 | 3.20 | 2.05 | 6.47 | 1.09 | 2.08 | 2.10 | 1.96 | 1.31 | 1.03 | 3.67 | 2.10 | 30.75 |
| Highland | 2.63 | 2.45 | 2.72 | 4.67 | 2.83 | 3.52 | 4.01 | 5.96 | 0.83 | 1.33 | 4.61 | 2.31 | 37.87 |
| Hillsdale | 2.43 | 5.30 | 1.50 | 4.41 | 3.22 | 6.24 | 2.33 | 1.68 | 1.75 | 1.10 | 5.11 | 2.23 | 37.30 |
| Holland | 2.43 | 3.62 | 2.12 | 10.70 | 1.51 | 5.58 | 0.65 | 3.09 | 1.79 | 1.41 | 3.62 | 5.98 | 42.50 |
| *Houghton | 1.51 | 1.92 | 1.23 | 2.04 | 2.66 | 1.17 | 7.75 | 1.58 | 2.15 | 2.83 | 3.95 | 2.61 | 31.40 |
| Howell | ..... | ..... | ..... | ..... | 1.46 | 2.69 | 1.95 | 2.31 | 0.75 | 1.50 | 3.60 | 1.90 | ..... |
| Humboldt | 0.17 | 0.90 | 1.45 | 1.70 | 0.62 | ..... | 4.52 | 2.40 | ..... | 1.29 | ..... | ..... | ..... |
| Iron Mountain | 0.76 | 1.95 | 1.49 | 3.37 | 1.79 | 1.78 | 8.66 | 0.85 | 0.54 | 1.60 | 2.49 | 1.56 | 26.84 |
| Iron River | 1.50 | 2.90 | 2.90 | 5.30 | 2.80 | 4.68 | 9.02 | 3.17 | 2.04 | 2.65 | 5.85 | 2.00 | 44.81 |
| Ironwood | 1.80 | 3.90 | 2.40 | 3.40 | 4.19 | 2.81 | 15.45 | 2.70 | 2.12 | 4.66 | 6.80 | 2.43 | 52.66 |
| Ishpeming | 1.27 | 2.47 | 2.61 | 2.95 | 1.33 | 1.42 | 2.55 | 2.17 | 1.30 | 1.25 | 3.54 | 2.15 | 25.21 |
| Isle Royale | ..... | ..... | ..... | ..... | 2.02 | 0.76 | 4.51 | 1.37 | 2.76 | 1.83 | 2.88 | ..... | ..... |
| Ivan | 0.66 | 1.49 | 1.52 | 3.44 | 2.27 | 2.54 | 2.22 | 1.45 | 3.48 | 1.52 | 2.18 | 2.82 | 25.59 |
| *Jackson | 2.10 | 4.17 | 1.45 | 5.21 | 2.58 | 5.97 | 5.18 | 2.10 | 1.41 | ..... | ..... | ..... | ..... |
| Jeddo | 2.54 | 2.66 | 1.74 | 4.42 | 2.09 | 2.51 | 0.92 | 1.44 | 1.94 | 1.54 | 3.74 | 2.90 | 28.44 |
| Kalamazoo | 1.83 | 2.89 | ..... | 6.01 | 2.59 | 7.23 | 3.98 | 3.97 | 2.62 | 2.07 | 3.78 | 3.66 | ..... |
| Lansing | 2.00 | 2.86 | 1.37 | 6.30 | 2.45 | 4.20 | 2.35 | 2.03 | 2.29 | 1.00 | 4.14 | 2.88 | 33.87 |
| Lapeer | 1.74 | 1.45 | ..... | 4.08 | 3.45 | 3.32 | 1.98 | 1.85 | 0.92 | 0.91 | 4.09 | ..... | ..... |
| Ludington | 3.41 | 1.69 | 2.34 | 5.12 | 4.65 | 5.00 | 1.43 | 1.96 | 3.16 | 0.97 | 1.98 | 1.94 | 34.55 |
| Luther | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.10 | 2.38 | 2.24 | 2.48 | 2.34 | ..... |
| Mackinac Island | 2.20 | 3.00 | 3.20 | 3.70 | 1.97 | 0.67 | 3.25 | 4.22 | ..... | ..... | ..... | ..... | ..... |
| Mackinaw | 0.24 | 1.70 | 1.40 | 1.40 | 1.83 | 1.40 | 2.85 | 2.05 | 1.95 | 1.83 | 2.32 | 1.07 | 20.04 |
| Manceiona | 2.35 | 0.93 | 1.30 | 2.30 | 1.29 | 1.35 | 2.65 | 1.40 | 2.16 | 2.35 | 1.41 | 3.40 | 22.89 |
| Manistee | 1.25 | 0.50 | ..... | ..... | ..... | ..... | 0.25 | ..... | ..... | ..... | ..... | 3.85 | ..... |
| Maple Ridge | 1.33 | 2.20 | 1.80 | 4.29 | 1.35 | 4.29 | 5.27 | 1.64 | 2.00 | 0.92 | 3.16 | 3.31 | 31.56 |
| *Marquette | 1.07 | 2.67 | 2.04 | 3.39 | 1.57 | 1.65 | 4.57 | 1.34 | 1.69 | 1.76 | 4.10 | 3.42 | 29.27 |
| Menominee | ..... | 1.55 | 1.58 | ..... | 1.25 | 4.35 | 2.83 | 0.80 | 1.48 | 0.66 | 1.52 | 2.40 | ..... |
| Midland | 0.64 | ..... | 1.56 | 8.40 | ..... | ..... | 0.69 | ..... | 5.03 | ..... | ..... | 1.99 | ..... |
| Montague | 2.15 | 1.48 | 1.00 | 10.28 | 2.23 | 2.55 | 0.77 | ..... | 1.10 | 1.44 | 1.47 | ..... | ..... |
| Morence | 2.81 | 4.44 | 1.79 | 3.76 | 4.80 | 3.70 | 2.59 | 1.76 | 1.11 | 1.75 | 5.01 | 2.79 | 36.31 |
| Mount Clemens | 2.49 | 3.00 | 1.17 | 3.93 | 3.06 | 2.73 | 4.65 | 1.73 | 0.73 | 1.19 | 2.80 | 2.67 | 30.15 |
| Mount Pleasant | 3.34 | 1.70 | ..... | 3.76 | 2.02 | 1.42 | 1.15 | 0.98 | 0.59 | 0.53 | 1.95 | 2.16 | ..... |
| Muskegon | 3.56 | 3.18 | 0.69 | 8.05 | 1.73 | 2.82 | 1.93 | 0.59 | 2.06 | 0.65 | 3.40 | 3.55 | 32.21 |
| Newberry | ..... | 2.40 | ..... | 2.20 | ..... | ..... | ..... | ..... | 3.32 | 2.10 | ..... | ..... | ..... |
| Old Mission | 1.30 | 0.99 | 1.52 | 4.52 | 2.10 | 1.88 | 4.44 | 2.38 | 2.47 | 1.73 | 1.79 | 5.04 | 30.16 |
| Olivet | 2.10 | ..... | ..... | 7.09 | 3.22 | 6.46 | 3.81 | 4.57 | 2.80 | 1.58 | 4.96 | 2.66 | ..... |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Michigan*—Continued. | | | | | | | | | | | | | |
| Omer | 2.10 | 1.98 | 1.46 | 4.53 | ..... | 2.60 | 1.05 | 0.75 | ..... | ..... | 1.91 | 4.00 | ..... |
| Onaway | 0.40 | 2.10 | ..... | ..... | ..... | 0.67 | 3.00 | 3.15 | ..... | ..... | 1.90 | 2.80 | ..... |
| *Ovid | ..... | ..... | ..... | 6.60 | 2.31 | 3.18 | 2.84 | 1.46 | 2.00 | ..... | ..... | ..... | ..... |
| Owosso | 2.16 | 2.67 | 1.69 | 6.23 | 2.53 | 2.44 | 1.77 | 1.23 | 1.88 | 0.83 | 4.87 | 3.11 | 31.41 |
| Petoskey | 1.27 | 1.13 | 1.65 | 1.57 | 0.89 | ..... | 1.63 | 1.64 | 2.58 | 3.01 | ..... | 5.26 | ..... |
| Plymouth | 2.90 | ..... | ..... | ..... | ..... | ..... | 2.15 | 2.71 | 0.86 | 2.00 | ..... | 1.12 | ..... |
| Pontiac | 3.43 | 4.60 | 1.63 | 6.60 | 2.39 | 1.87 | 4.63 | 1.66 | 1.13 | 1.46 | 3.99 | 3.21 | 36.60 |
| Port Austin | 3.03 | 3.45 | ..... | 3.00 | ..... | 0.72 | 0.45 | 0.91 | ..... | ..... | ..... | ..... | ..... |
| *Port Huron | 2.37 | 3.20 | 1.54 | 4.39 | 2.41 | 1.47 | 1.25 | 2.23 | 1.90 | 1.81 | 3.39 | 1.86 | 27.82 |
| Powers | ..... | 2.00 | 1.70 | ..... | ..... | 1.47 | 1.20 | 0.80 | 1.90 | 1.40 | ..... | 1.20 | ..... |
| Reed City | 1.57 | 1.30 | 1.00 | ..... | 1.00 | 1.40 | ..... | 1.20 | 0.90 | 0.37 | ..... | 2.37 | ..... |
| Roscommon | 0.66 | 1.78 | 2.59 | 4.64 | 2.80 | 2.99 | 2.67 | 1.45 | 1.62 | 1.53 | 2.32 | 2.79 | 27.84 |
| Saginaw | 3.14 | 5.70 | 2.21 | 5.62 | 1.14 | 2.14 | 4.28 | 1.18 | 2.70 | 1.01 | 4.32 | 4.65 | 38.00 |
| Saginaw (W. S.) | 2.70 | 3.52 | 1.82 | 6.80 | 1.86 | 2.84 | 2.93 | 1.27 | 2.53 | 0.80 | 3.28 | 3.11 | 33.46 |
| St. Ignace | 1.52 | 2.36 | 1.74 | 5.55 | 1.65 | 0.30 | 1.35 | 1.15 | 0.72 | 1.15 | 2.08 | 2.31 | 21.88 |
| St. James | 0.50 | ..... | 1.50 | 2.58 | 1.50 | 2.34 | 2.03 | 1.42 | 3.24 | 1.34 | 1.40 | ..... | ..... |
| St. Johns | ..... | 1.35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| St. Joseph | 3.26 | 4.57 | 2.20 | 7.93 | 1.62 | 5.69 | 0.76 | 2.90 | 2.05 | 1.42 | 4.55 | 4.70 | 41.65 |
| Sandusky | ..... | 3.05 | 2.13 | 4.37 | 4.02 | 3.52 | 1.93 | 1.73 | 1.03 | 1.54 | 4.10 | 3.13 | ..... |
| Saranac | 2.01 | 3.42 | 1.81 | 8.24 | 1.98 | 6.69 | 1.24 | 3.57 | 2.69 | 1.32 | 3.37 | 2.92 | 39.26 |
| *Sault Ste. Marie | 1.61 | 1.51 | 1.53 | 3.30 | 0.86 | 0.70 | 3.50 | 3.49 | 1.92 | 2.07 | 2.14 | 1.91 | 24.54 |
| South Haven | 1.37 | 2.96 | 1.43 | 6.57 | ..... | 4.13 | 1.50 | 2.85 | 2.75 | 1.90 | 3.35 | 3.35 | ..... |
| Stanton | ..... | ..... | ..... | ..... | 1.34 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Thomaston | 1.20 | 3.10 | 1.75 | 3.10 | 4.22 | 2.40 | 10.83 | 4.60 | 4.77 | 2.28 | 3.35 | 2.69 | 44.29 |
| Thornville | 1.35 | 2.59 | 1.97 | 4.26 | 2.73 | 4.12 | 2.44 | 3.05 | 2.06 | 2.48 | 2.75 | 3.10 | 32.90 |
| Traverse City | 1.27 | 0.97 | 1.16 | 3.23 | 2.25 | 2.35 | ..... | 2.00 | 0.65 | 0.99 | 2.31 | 2.90 | ..... |
| Vassar | ..... | ..... | ..... | ..... | ..... | ..... | 5.50 | 1.05 | ..... | ..... | ..... | ..... | ..... |
| Victoria | ..... | ..... | ..... | ..... | ..... | ..... | 5.22 | 2.72 | 2.55 | 3.52 | 3.73 | 1.38 | ..... |
| Wasepi | 1.92 | 4.57 | 2.16 | 5.85 | 3.51 | 7.28 | 3.45 | 4.86 | 3.35 | 1.87 | 4.94 | 2.73 | 46.49 |
| Watersmeet | ..... | ..... | 1.67 | 3.63 | 1.82 | 2.12 | 9.24 | 5.45 | 2.50 | 1.37 | 4.97 | 1.02 | ..... |
| Webberville | 2.71 | 2.42 | 1.43 | 5.14 | 3.58 | 2.46 | 2.37 | 3.60 | 1.13 | 1.26 | 4.36 | 2.81 | 33.27 |
| West Branch | ..... | ..... | 0.35 | ..... | 1.01 | 2.17 | 2.88 | 0.55 | 2.19 | ..... | ..... | 2.10 | ..... |
| Wetmore | 1.30 | 2.90 | 2.40 | 2.30 | ..... | 0.67 | 0.80 | 2.51 | ..... | 1.94 | 4.57 | 4.50 | ..... |
| Whitefish Point | 2.32 | 3.57 | 2.45 | 3.20 | 1.80 | 0.99 | 4.13 | 2.71 | 1.77 | 2.08 | 2.14 | 5.66 | 32.82 |
| Woodlawn | 2.27 | 3.90 | 3.01 | 5.22 | 2.90 | 1.56 | 2.95 | 1.46 | 2.30 | 1.59 | 3.38 | 3.32 | 33.86 |
| Ypsilanti | 2.47 | 3.75 | 2.00 | 4.54 | 3.41 | 3.82 | 2.73 | 2.00 | 1.61 | 1.99 | 5.01 | 2.66 | 35.99 |
| *Minnesota.* | | | | | | | | | | | | | |
| Albert Lea | 1.26 | 2.15 | 1.00 | 3.14 | 3.85 | 6.40 | ..... | 8.24 | 2.85 | 1.27 | 6.40 | 2.00 | ..... |
| *Alexandria | 1.44 | 1.21 | 0.10 | 0.83 | 4.49 | 2.72 | 1.13 | 1.38 | 2.64 | 1.30 | 1.23 | 1.03 | 19.50 |
| Angus | 0.43 | 0.09 | 0.07 | ..... | ..... | ..... | 4.88 | 3.53 | 2.58 | 0.58 | 1.20 | 0.56 | ..... |
| Bagley | 0.83 | 0.14 | 0.56 | 1.00 | 2.67 | 1.35 | 15.12 | 5.91 | 1.67 | 1.72 | 1.39 | 1.49 | 33.85 |
| Baudette | 1.19 | 0.19 | 0.72 | 0.47 | 1.80 | 2.52 | 6.46 | 2.88 | 4.69 | 4.12 | 1.65 | 1.23 | 27.92 |
| Beardsley | ..... | ..... | ..... | ..... | 5.50 | 1.86 | 3.24 | 6.67 | 1.36 | 1.99 | 1.27 | 1.04 | ..... |
| Beaulieu | 0.86 | 0.06 | 0.60 | 0.34 | 2.75 | 2.27 | 14.43 | ..... | ..... | ..... | 0.82 | 0.84 | ..... |
| Bird Island | 2.26 | 0.93 | 0.08 | 1.19 | 3.74 | 5.41 | 1.34 | 4.07 | 3.18 | 0.92 | 1.82 | 0.97 | 25.91 |
| Caledonia | 2.00 | ..... | ..... | 5.77 | 2.30 | 2.60 | 0.76 | 6.21 | 5.01 | 2.07 | 4.78 | 1.63 | ..... |
| *Campbell | ..... | ..... | ..... | 1.38 | 3.75 | 2.46 | 4.12 | 3.65 | 1.43 | 1.59 | 0.50 | 2.69 | ..... |
| Cass Lake | 0.86 | 0.47 | 0.32 | 0.82 | 1.58 | 1.29 | 5.20 | 6.59 | 2.17 | 2.55 | 1.65 | 1.15 | 24.65 |
| Collegeville | 1.26 | 2.32 | 0.32 | 1.65 | 3.22 | 4.58 | 2.33 | 2.58 | 1.69 | 0.67 | 1.45 | 1.40 | 23.47 |
| *Crookston | 0.64 | 0.17 | 0.80 | 1.08 | 2.93 | 3.71 | 3.90 | 3.38 | 1.56 | 0.81 | 1.20 | 1.50 | 21.68 |
| *Detroit | 0.63 | 0.43 | 0.55 | 1.18 | 3.58 | 2.73 | 7.10 | 9.89 | 1.32 | 1.78 | 1.05 | 1.00 | 31.24 |
| *Duluth | 1.02 | 1.34 | 0.78 | 2.15 | 1.87 | 1.33 | 10.83 | 4.91 | 3.28 | 2.15 | 2.16 | 1.83 | 33.65 |
| Fairmont (near) | 1.47 | 3.50 | 0.66 | 2.91 | 4.77 | 4.48 | 2.41 | 3.52 | 3.83 | 1.74 | 5.61 | 1.09 | 35.99 |
| Faribault | 1.10 | 1.69 | 0.63 | 2.30 | 4.01 | 2.45 | 1.46 | 8.59 | 4.52 | 1.97 | 4.16 | 1.10 | 33.98 |
| Farmington | 1.46 | 1.80 | 0.80 | 2.37 | 3.57 | 4.26 | 1.56 | 3.54 | 6.09 | 0.97 | 3.53 | 1.14 | 31.09 |
| *Fergus Falls | 0.74 | 0.56 | 0.53 | 1.62 | 4.66 | 4.10 | 4.54 | 4.66 | 1.39 | 1.26 | 0.95 | 1.76 | 26.77 |
| Floodwood | ..... | 0.87 | 0.52 | 1.88 | ..... | 0.72 | 5.43 | 5.53 | 2.31 | 1.27 | 2.19 | 1.25 | ..... |
| *Fort Ripley | 1.27 | 1.07 | 0.19 | 1.15 | 2.67 | 1.93 | 2.58 | 3.17 | 1.93 | 1.14 | 1.51 | 1.02 | 19.63 |
| Fosston | ..... | ..... | ..... | ..... | ..... | ..... | 13.38 | 4.19 | 2.47 | 2.13 | 1.15 | ..... | ..... |
| Glencoe | 1.86 | 2.89 | 0.33 | 2.55 | 4.97 | 5.38 | 1.83 | 2.63 | 5.79 | 0.90 | 1.85 | 2.63 | 33.61 |
| *Grand Meadow | 2.34 | 2.09 | 2.00 | 3.64 | 4.24 | 5.63 | 0.75 | 8.34 | 5.39 | 1.37 | 7.82 | 1.76 | 45.37 |
| Hallock | 0.38 | 0.10 | 0.73 | 0.59 | 4.60 | 4.70 | 2.68 | 2.12 | 0.82 | 0.53 | 0.28 | 1.12 | 18.65 |
| *Halstad | 1.28 | 0.03 | 0.12 | 1.07 | 4.49 | 4.52 | 3.59 | 3.57 | 1.34 | 0.98 | 1.35 | 1.15 | 23.49 |
| Hinckley | ..... | 1.40 | 0.27 | 2.82 | 2.86 | 1.89 | 5.26 | 7.68 | ..... | 1.30 | 3.27 | 2.26 | ..... |
| International Falls | 1.77 | T. | 0.92 | 0.84 | 2.84 | 2.30 | 2.42 | 6.08 | 2.93 | 5.49 | 1.70 | 1.90 | 29.19 |
| Kelliher | ..... | 0.26 | 0.77 | 1.66 | 1.69 | 1.19 | 3.80 | 6.24 | 2.08 | 4.07 | 1.73 | 1.41 | ..... |
| Lake Crystal | ..... | ..... | ..... | 1.59 | 3.24 | 7.04 | 1.64 | 2.52 | 3.31 | ..... | 3.15 | 1.34 | ..... |
| Leech Lake Dam | 1.03 | 0.56 | 0.57 | 1.33 | 1.09 | 0.74 | 5.88 | 10.43 | 2.13 | 2.35 | 1.02 | 1.57 | 28.70 |
| Litchfield | 1.85 | 1.58 | 0.17 | 2.16 | 3.47 | 7.99 | 3.03 | 1.55 | 3.45 | 1.70 | ..... | ..... | ..... |
| Little Falls | 1.58 | 0.85 | 0.10 | 2.27 | 3.62 | 2.82 | 3.00 | 3.36 | 0.91 | 0.77 | 2.23 | 2.67 | 24.18 |
| Long Prairie | 0.97 | 1.05 | 0.49 | 1.43 | 2.10 | 3.65 | 2.50 | 4.27 | 2.01 | 0.80 | 2.01 | ..... | ..... |
| Lynd (2) | 1.58 | 1.51 | 0.24 | 1.79 | 7.12 | 4.07 | 2.15 | 1.46 | 1.19 | 1.14 | 2.00 | 0.99 | 25.24 |
| *Mankato | 1.18 | 0.99 | 0.20 | 1.53 | 2.59 | 6.52 | 0.67 | 5.27 | 3.98 | 1.80 | 2.70 | 1.20 | 28.63 |
| Mapleplain | 2.26 | 2.84 | 0.33 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.08 | 2.88 | ..... |
| Milaca | ..... | 1.83 | 0.28 | ..... | 3.48 | 2.94 | 3.73 | 2.81 | 2.86 | 0.65 | 2.53 | 1.92 | ..... |
| Milan | 1.98 | 1.73 | 0.55 | 1.18 | 4.94 | 2.48 | 2.16 | 3.47 | 1.85 | 1.03 | 0.70 | 3.25 | 25.32 |
| *Minneapolis (W. B.) | 1.37 | 2.14 | 0.40 | 2.24 | 3.85 | 2.68 | 5.03 | 2.09 | 2.98 | 2.05 | 2.74 | 2.38 | 29.95 |
| Minneapolis (1) | 1.24 | 1.77 | 0.38 | 2.24 | 4.09 | 2.57 | 5.40 | 2.26 | 2.93 | 2.01 | 2.84 | 1.65 | 29.38 |
| *Montevideo | 1.32 | 1.89 | 0.18 | 1.16 | 4.44 | 4.99 | 1.46 | 2.49 | 2.43 | 1.31 | 1.76 | 1.57 | 25.00 |
| *Moorhead | 0.96 | 0.34 | 0.42 | 1.45 | 5.02 | 3.42 | 2.92 | 3.91 | 1.44 | 1.61 | 1.44 | 1.74 | 24.67 |
| Mora | 0.71 | 1.11 | 0.52 | 1.61 | 3.64 | 1.90 | 1.76 | 2.85 | 3.07 | 0.86 | 1.76 | 1.44 | 24.13 |
| Morris | 0.60 | 1.25 | 0.41 | 0.93 | 4.50 | 2.48 | 1.98 | 1.56 | 2.02 | 1.17 | 1.50 | 0.90 | 19.30 |
| Mount Iron | 1.65 | 1.35 | 1.18 | 1.33 | 2.56 | 1.69 | 5.17 | 8.13 | 4.00 | 2.35 | 1.32 | 1.33 | 32.06 |
| New London | 0.62 | 0.82 | 0.32 | 1.26 | 2.21 | 4.58 | 1.84 | 1.01 | 2.31 | 1.18 | 1.70 | 1.69 | 19.54 |
| New Richland | 1.77 | 1.93 | 1.42 | 3.15 | 2.77 | 5.10 | 0.69 | 5.77 | 2.89 | 1.71 | 3.67 | 1.71 | 33.18 |
| *New Ulm | 2.24 | 2.68 | 0.36 | 1.78 | 5.94 | 8.30 | 1.96 | 3.35 | 3.93 | 1.61 | 3.15 | 2.15 | 37.45 |
| Osakis | 1.55 | 1.68 | 0.30 | 1.83 | 4.94 | 3.63 | 1.40 | 2.11 | 3.02 | 1.50 | 1.35 | 1.62 | 24.93 |
| *Park Rapids | 0.90 | 0.26 | 0.45 | 1.81 | 2.64 | 1.49 | 8.00 | 7.84 | 1.77 | 2.46 | 1.16 | 1.31 | 30.69 |
| Pine River Dam | 0.78 | 0.78 | 0.18 | 2.76 | 2.03 | 1.42 | 4.36 | 5.55 | 2.55 | 1.57 | 1.39 | 1.03 | 24.40 |
| Pipestone | 0.97 | 1.43 | 0.35 | 0.90 | 4.02 | 4.87 | 2.53 | 3.19 | 1.07 | 0.40 | 0.65 | ..... | ..... |
| Pokegama Falls | 1.37 | 1.07 | 0.65 | 1.61 | 0.88 | 1.00 | 3.45 | 6.33 | 4.57 | 1.38 | 1.20 | 1.22 | 24.73 |
| Red Lake | 1.50 | T. | 0.25 | 0.50 | 1.75 | ..... | 5.95 | 6.65 | 2.77 | 2.65 | 0.97 | 1.93 | ..... |
| *Red Wing (1) | ..... | 1.93 | ..... | 3.24 | 4.53 | 3.30 | 1.44 | ..... | 6.88 | 2.21 | 5.90 | 1.64 | ..... |
| Red Wing (River) | 1.30 | 1.34 | 0.77 | 2.54 | 3.34 | 4.40 | 1.86 | 1.78 | 7.38 | 1.98 | 5.50 | 1.44 | 33.63 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Minnesota*—Continued. | | | | | | | | | | | | | |
| Redwood Falls | 2.25 | 2.65 | 0.33 | 1.57 | 4.17 | 6.21 | 1.65 | 1.25 | 2.33 | 0.70 | 3.46 | 2.17 | 28.74 |
| *Reeds Landing | 0.55 | 0.91 | 0.52 | 2.15 | 3.44 | 4.00 | 1.46 | 3.70 | 0.52 | 1.26 | 5.08 | 0.93 | 30.52 |
| *Rochester | 1.47 | 1.20 | 1.05 | 2.47 | 3.08 | 2.98 | 0.42 | 5.36 | 3.45 | 1.00 | 5.91 | 0.60 | 28.99 |
| Roseau | 0.62 | 0.36 | 0.71 | 0.34 | 3.22 | 2.92 | 3.75 | 2.26 | 3.14 | 0.92 | 2.28 | 1.44 | 22.02 |
| St. Charles | 1.76 | 1.52 | 1.26 | 3.31 | 2.49 | 2.09 | 0.80 | 9.91 | 4.04 | 1.07 | 4.22 | 1.54 | 34.01 |
| St. Cloud | 1.56 | 1.21 | 0.14 | 1.57 | 3.34 | 4.84 | 3.08 | 2.43 | 4.06 | 0.71 | 2.10 | 1.63 | 26.67 |
| *St. Paul | 1.56 | 2.18 | 0.49 | 2.42 | 3.37 | 4.41 | 3.66 | 2.89 | 4.06 | 2.60 | 2.66 | 1.52 | 31.82 |
| St. Peter | 1.61 | 1.73 | T. | 1.70 | 4.62 | 6.88 | 1.24 | 3.32 | 3.84 | 1.85 | 3.39 | 1.71 | 31.89 |
| Sandy Lake Dam | 1.19 | 0.91 | 1.02 | 2.58 | 2.00 | 1.36 | 7.01 | 6.95 | 1.95 | 1.03 | 1.77 | 1.96 | 29.73 |
| Shakopee | 2.35 | 2.30 | 0.10 | ..... | 3.33 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| State Sanatorium | 0.63 | 0.29 | 0.27 | 2.24 | 0.93 | 1.52 | 9.33 | 7.27 | 2.28 | 2.59 | 1.72 | 1.39 | 30.41 |
| Stephens Mine | 1.08 | 1.09 | 0.74 | 1.06 | 2.55 | 1.21 | 5.86 | 7.78 | 3.11 | 2.33 | 1.52 | 1.24 | 30.17 |
| *Stillwater | 0.66 | ..... | 0.27 | 2.07 | 3.12 | 5.01 | 3.98 | 3.33 | 5.70 | 2.08 | 2.91 | 1.55 | ..... |
| Taylors Falls | ..... | 1.15 | 0.41 | 1.90 | 2.61 | 4.33 | 5.09 | 3.09 | 4.49 | 2.31 | 2.88 | 1.30 | ..... |
| Two Harbors | 0.75 | 1.46 | 0.78 | 2.03 | 3.24 | 1.56 | 9.12 | 5.60 | 6.65 | 3.33 | 5.64 | 3.08 | 43.24 |
| Wabasha | 1.20 | 1.37 | 1.33 | 2.64 | 3.23 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Warroad | ..... | ..... | ..... | ..... | ..... | ..... | 2.88 | 1.66 | 4.15 | 0.79 | 1.65 | ..... | ..... |
| West Concord | 2.00 | 1.40 | 0.80 | 2.01 | 4.08 | 3.47 | 0.22 | 8.47 | 4.09 | 1.20 | 5.42 | 1.20 | 33.36 |
| Willow River | 1.54 | 1.48 | 0.81 | 1.86 | 3.32 | ..... | 4.55 | 5.91 | 3.98 | 1.30 | ..... | ..... | ..... |
| Windom | 2.72 | 2.31 | 0.37 | 2.24 | 3.47 | 7.33 | 2.63 | 2.70 | 1.95 | 1.48 | 3.97 | 1.43 | 32.60 |
| *Winnebago | 1.41 | 2.16 | 0.74 | 3.19 | 4.27 | 5.75 | 1.89 | 3.60 | 3.95 | 1.69 | 5.18 | 1.39 | 35.22 |
| Winnibigoshish | 1.33 | 0.64 | 0.43 | 1.39 | 1.33 | 0.82 | 5.00 | 7.24 | 2.48 | 2.32 | 1.87 | 1.18 | 26.03 |
| Winona | 1.53 | 1.68 | 1.15 | 4.28 | 2.00 | 2.67 | 0.50 | 7.16 | 4.60 | 1.24 | 5.49 | 1.52 | 34.48 |
| *Worthington | 0.58 | 1.60 | 0.74 | 2.21 | 5.84 | 6.12 | 5.19 | 2.10 | 2.02 | 0.72 | 4.31 | 1.13 | 32.59 |
| Zumbrota | 1.33 | 2.35 | 0.47 | 2.33 | 3.17 | 3.86 | 1.07 | 4.85 | 5.10 | 0.99 | 5.77 | 1.17 | 32.46 |
| *Mississippi.* | | | | | | | | | | | | | |
| *Aberdeen | 3.35 | 10.05 | 7.84 | 7.90 | 6.94 | 7.96 | 6.59 | 0.61 | 0.75 | 1.89 | 0.87 | 4.89 | 59.64 |
| Agricultural College | 1.54 | 6.47 | 12.68 | 6.49 | 10.29 | 7.71 | 3.25 | 1.87 | 2.78 | 0.65 | 1.40 | 4.72 | 59.85 |
| Anguilla | 0.65 | 9.34 | 4.96 | 6.17 | 15.50 | 8.00 | 1.69 | 0.90 | 4.62 | 2.71 | 2.91 | 5.74 | 63.19 |
| Austin | 1.85 | 8.61 | 4.04 | 6.20 | 7.03 | 3.18 | 2.61 | 0.05 | 3.97 | 1.23 | 4.24 | 7.45 | 50.46 |
| *Batesville | 3.96 | 5.64 | 5.50 | 4.80 | 9.97 | 4.31 | 0.83 | 2.38 | 3.10 | 0.24 | 2.99 | 7.54 | 51.32 |
| Bay St. Louis | 2.55 | 5.93 | 5.68 | 5.30 | 5.20 | 13.32 | 10.18 | 13.58 | 8.05 | 1.47 | 0.95 | 7.32 | 79.53 |
| Biloxi | 2.78 | 2.99 | 3.90 | 6.03 | 11.15 | 13.09 | 6.21 | 11.65 | 5.72 | 1.40 | 2.20 | 5.32 | 72.44 |
| Booneville | 2.72 | 9.09 | 5.70 | 6.60 | 6.95 | 6.04 | 2.77 | 1.25 | 3.72 | 1.78 | 2.09 | 5.14 | 53.85 |
| *Brookhaven | 3.20 | 5.28 | 2.83 | 5.09 | 9.40 | 10.38 | 6.57 | 6.34 | 5.57 | 1.67 | 0.81 | 4.63 | 61.77 |
| Byhalia | ..... | ..... | ..... | ..... | 9.48 | 3.83 | 2.30 | 2.71 | 4.92 | 0.59 | 2.13 | 6.33 | ..... |
| Canton | 1.43 | 5.51 | 6.56 | 6.46 | 18.28 | 3.75 | 1.85 | 2.75 | 2.44 | 0.06 | 0.88 | 3.94 | 53.91 |
| *Clarksdale | 1.80 | 6.97 | 3.75 | 4.23 | 9.12 | 2.87 | 1.69 | 3.41 | 2.51 | 0.95 | 2.92 | ..... | ..... |
| Coffeeville | ..... | ..... | ..... | ..... | 9.42 | 2.56 | 0.67 | 2.54 | 2.43 | 0.32 | 2.25 | 4.88 | ..... |
| *Columbia | 2.76 | 3.76 | 7.32 | 6.30 | 8.98 | 8.97 | 7.28 | 3.90 | 7.14 | 1.75 | 0.61 | 5.64 | 64.41 |
| *Columbus | 2.54 | 5.84 | 11.56 | 7.29 | 7.81 | 7.71 | 1.60 | 4.40 | 1.25 | 1.44 | 1.47 | 6.10 | 59.01 |
| *Corinth | 3.16 | 8.28 | 3.53 | 4.50 | 7.37 | 3.73 | 5.30 | 1.30 | 7.95 | 2.87 | 1.84 | 5.01 | 54.84 |
| Crenshaw | ..... | ..... | ..... | ..... | 10.03 | 5.75 | 1.18 | 2.52 | 2.83 | 1.15 | 3.38 | 7.77 | ..... |
| Crystal Springs | 2.42 | 8.39 | 4.88 | 4.88 | 10.95 | 7.96 | 4.76 | 1.67 | 3.61 | 0.86 | 1.16 | 3.38 | 54.92 |
| Denmark | ..... | ..... | ..... | ..... | 6.74 | 3.51 | 3.43 | 0.66 | 7.38 | 1.10 | 2.54 | 6.26 | ..... |
| Duck Hill | ..... | 10.03 | 6.18 | 10.74 | 12.56 | 4.27 | 2.20 | 0.10 | ..... | 0.30 | 1.59 | 5.19 | ..... |
| *Edinburg | 1.53 | 9.39 | 5.68 | 8.83 | 13.13 | 7.44 | 2.46 | 3.84 | 3.56 | 1.49 | 1.51 | 4.66 | 63.52 |
| Edwards | 2.48 | 8.16 | 5.90 | 7.97 | 11.87 | 5.97 | 4.26 | 4.12 | 5.21 | 1.35 | 1.26 | 4.07 | 62.62 |
| Enid | ..... | ..... | ..... | ..... | 8.18 | 2.99 | 0.63 | 2.07 | 2.81 | T. | ..... | ..... | ..... |
| *Enterprise | 1.26 | 3.74 | 7.02 | 7.44 | 15.28 | 8.77 | 2.33 | 2.22 | 4.09 | 2.28 | 0.79 | 5.90 | 61.12 |
| Fayette | 1.75 | 8.08 | 2.09 | 3.89 | 10.69 | 5.55 | 3.83 | 3.42 | 8.41 | 1.32 | 1.96 | 3.61 | 54.60 |
| *Fulton | 1.42 | 12.10 | 5.47 | 5.32 | 7.38 | 5.24 | 5.82 | 0.60 | 4.82 | 0.71 | 2.16 | 4.78 | 55.83 |
| *Greenville | 1.31 | 6.29 | 5.03 | 6.56 | 8.69 | 4.00 | 3.00 | 0.89 | 4.35 | 1.55 | 1.85 | 6.49 | 50.01 |
| *Greenwood | 0.96 | 6.30 | 6.36 | 8.06 | 11.12 | 4.62 | 1.92 | 1.84 | 3.48 | 1.52 | 1.06 | 6.18 | 53.42 |
| Grenada | ..... | ..... | ..... | ..... | 11.36 | 4.85 | 2.84 | 1.86 | 3.78 | T. | 1.08 | 3.97 | ..... |
| *Hattiesburg | 2.86 | 5.20 | 6.98 | 10.24 | 6.12 | 8.54 | ..... | 4.88 | 5.64 | 0.56 | 1.44 | 6.40 | ..... |
| *Hazlehurst | 2.14 | 8.32 | 2.95 | 3.76 | 11.52 | 9.27 | 4.97 | 3.33 | 5.14 | 0.63 | 1.54 | 4.53 | 58.10 |
| *Hernando | 2.07 | 8.45 | 3.29 | 4.55 | 8.80 | 1.95 | 2.86 | 3.40 | 5.09 | 1.20 | 6.48 | 7.30 | 55.44 |
| Hickory Flat | ..... | ..... | ..... | ..... | 7.60 | 4.90 | 3.73 | 1.09 | 3.26 | 0.70 | 1.82 | 5.73 | ..... |
| *Holly Springs | 2.86 | 7.11 | 5.00 | 5.91 | 13.49 | 4.98 | 3.03 | 2.82 | 3.40 | 0.61 | 1.84 | 6.95 | 58.00 |
| *Jackson | 2.13 | 7.44 | 4.05 | 6.79 | 12.23 | 9.69 | 1.57 | 2.42 | 3.31 | 0.09 | 1.06 | 3.45 | 54.23 |
| *Kosciusko | 1.50 | 6.68 | 6.99 | 7.99 | 13.50 | 5.43 | 4.35 | 3.94 | 3.05 | 0.37 | 2.52 | 3.61 | 59.93 |
| *Lake | 2.96 | 8.37 | 7.15 | 6.84 | 16.35 | 9.82 | 3.76 | 5.80 | 2.96 | 0.86 | 0.75 | 3.51 | 69.13 |
| Lake Como | 2.87 | 4.33 | 7.40 | 6.60 | 9.46 | 5.85 | 3.52 | 0.84 | 3.87 | 2.30 | 1.79 | 7.21 | 56.04 |
| Lake Cormorant | ..... | ..... | ..... | ..... | 6.27 | 3.39 | 1.79 | 1.17 | 3.58 | 0.64 | 5.05 | 7.15 | ..... |
| Laurel | 2.06 | 5.20 | 7.45 | 8.61 | 7.60 | 9.31 | 8.33 | 1.90 | 4.37 | 1.35 | 1.56 | 6.16 | 63.90 |
| Leakesville | 2.97 | 6.70 | 8.44 | 9.28 | 6.08 | 13.93 | 6.51 | 3.76 | 5.05 | ..... | 0.20 | 7.47 | ..... |
| Louisville | 1.46 | 9.09 | 7.95 | 11.68 | 9.20 | 9.19 | 2.34 | 0.77 | 2.32 | 2.95 | 1.18 | 4.35 | 63.04 |
| Lula | ..... | ..... | ..... | ..... | 7.62 | 3.04 | 0.74 | 1.00 | 2.77 | 1.09 | 6.16 | 8.20 | ..... |
| McNeill | 2.48 | 5.91 | 6.50 | 6.25 | 12.20 | 10.48 | 7.64 | 7.42 | 8.49 | 3.76 | 1.01 | 7.90 | 80.04 |
| *Macon | 1.78 | 5.97 | 7.66 | 12.58 | 9.18 | 9.51 | 1.39 | 2.05 | 1.32 | 3.11 | 0.96 | 3.45 | 58.96 |
| Magnolia | 3.84 | 5.19 | 4.15 | 9.05 | 8.45 | 7.74 | 7.18 | 5.20 | 5.10 | 1.38 | 1.49 | 4.22 | 62.99 |
| Malone | ..... | ..... | ..... | ..... | 7.49 | 2.30 | 1.45 | T. | 2.86 | T. | 1.50 | 5.71 | ..... |
| Marks | ..... | ..... | ..... | ..... | 9.24 | 2.89 | 2.24 | 2.66 | 3.25 | 0.91 | 2.79 | 8.27 | ..... |
| *Meridian | 1.30 | 4.40 | 6.01 | 8.85 | 12.15 | 7.93 | 2.46 | 0.96 | 6.18 | 2.63 | 0.71 | 4.34 | 57.92 |
| *Merrill | 2.74 | 5.01 | 6.72 | 10.10 | 6.70 | 10.82 | 5.74 | 5.38 | 5.08 | 2.10 | 0.22 | 7.00 | 67.61 |
| Monticello | 2.42 | 5.79 | 5.78 | 5.14 | 7.46 | 4.65 | 8.87 | 2.34 | 5.46 | 0.61 | 1.01 | 4.90 | 54.43 |
| *Natchez | 1.80 | 8.64 | 2.78 | 4.90 | 10.85 | 6.39 | 1.75 | 3.26 | 7.40 | 1.82 | 3.33 | 5.10 | 58.02 |
| New Albany | ..... | ..... | ..... | ..... | 6.36 | 4.76 | 1.93 | 0.22 | 2.91 | 1.20 | 1.58 | 4.60 | ..... |
| *Okolona | 1.36 | 12.86 | 7.30 | 6.24 | 7.33 | 4.14 | 6.48 | 0.46 | 2.25 | 0.54 | 0.90 | 4.93 | 54.79 |
| Pascagoula | ..... | 3.89 | 2.59 | 5.23 | ..... | 12.74 | 8.81 | 7.73 | ..... | 8.17 | 0.74 | ..... | ..... |
| Pearlington | 4.32 | 6.15 | 4.91 | 5.01 | 4.76 | 16.09 | 8.22 | 7.08 | 5.11 | 1.43 | 2.16 | 8.98 | 74.22 |
| Pittsboro | ..... | ..... | 5.20 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Pontotoc | 2.07 | 7.61 | 6.07 | 6.61 | 8.09 | 7.88 | 5.78 | 1.58 | 3.55 | 1.02 | 1.81 | ..... | ..... |
| Portervilie | 1.62 | 6.95 | 8.77 | 10.64 | 12.16 | 7.25 | 2.64 | ..... | ..... | 1.41 | 1.07 | 3.17 | ..... |
| *Port Gibson | 2.48 | 8.42 | 2.79 | 5.14 | 17.11 | 5.59 | 2.52 | 1.50 | 4.05 | 1.73 | 2.12 | 4.46 | 57.91 |
| Ripley | 3.50 | 8.50 | 4.10 | 5.55 | 8.53 | 5.05 | 2.55 | 0.90 | 2.70 | 0.20 | ..... | ..... | ..... |
| *Rosedale | 1.75 | ..... | 4.25 | 7.12 | 6.40 | 8.63 | 2.08 | 1.48 | 2.52 | 1.11 | 3.88 | 7.30 | ..... |
| Senatobia | ..... | ..... | ..... | ..... | 8.58 | 2.54 | 1.05 | 5.24 | 4.85 | 0.88 | 2.15 | 7.47 | ..... |
| Shoccoe | 1.54 | 5.46 | 6.03 | 7.17 | 17.10 | ..... | 2.44 | 1.72 | 2.34 | 0.00 | 0.97 | 4.39 | ..... |
| *Shubuta | 2.34 | 4.98 | 9.98 | 7.10 | 12.35 | 8.58 | 3.76 | 1.81 | 4.36 | 0.66 | 0.92 | 6.48 | 63.32 |
| Suffolk | 3.43 | 6.14 | 3.43 | 5.96 | 6.07 | 5.05 | 2.18 | 4.16 | 3.29 | 1.33 | 2.35 | 4.16 | 47.55 |
| *Swan Lake | 1.47 | 7.31 | 5.29 | 6.03 | 14.80 | 4.12 | 1.25 | ..... | 2.20 | 0.30 | 2.98 | 7.25 | ..... |
| Tchula | 1.60 | 9.15 | 9.06 | 8.22 | 13.86 | 6.53 | 2.00 | 1.55 | 6.35 | 1.40 | 1.70 | 4.89 | 66.31 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Mississippi*—Continued. | | | | | | | | | | | | | |
| *Tupelo | 1.60 | 9.64 | | | | | | | | | | | |
| University | 1.36 | 7.91 | 5.96 | 6.50 | 6.98 | | | | | | | | |
| Utica | | 7.48 | 3.39 | 6.27 | 11.31 | 7.19 | 4.08 | 5.18 | 5.52 | 1.03 | | 3.71 | |
| *Vicksburg | 1.24 | 7.20 | 5.43 | 6.25 | 11.82 | 5.06 | 1.97 | 3.20 | 4.96 | 1.89 | 1.75 | 4.18 | 54.95 |
| Water Valley | 1.97 | 7.80 | 7.23 | 6.05 | 6.49 | 5.12 | 1.55 | 3.21 | 3.99 | 0.40 | 2.07 | 6.63 | 52.51 |
| *Waynesboro | 2.57 | 6.51 | 9.30 | 7.38 | 10.83 | 8.97 | 7.15 | 1.57 | 4.53 | 1.68 | 1.08 | 7.40 | 68.97 |
| Woodland | | | | | 8.13 | 3.41 | 4.76 | 1.06 | 3.17 | 1.11 | 0.94 | 5.20 | |
| Woodville | 4.67 | 5.12 | 1.79 | 6.97 | 7.67 | 4.05 | 4.55 | 4.15 | 7.69 | 2.29 | 2.02 | 5.18 | 56.15 |
| *Yazoo City | 0.66 | 8.91 | 5.07 | 6.26 | 19.24 | 4.38 | 1.39 | 3.18 | 3.74 | 0.80 | 1.80 | 2.96 | 58.39 |
| *Missouri.* | | | | | | | | | | | | | |
| *Albany | 1.17 | 0.45 | 1.60 | 4.36 | 3.67 | 6.44 | 10.93 | 0.30 | 4.80 | 2.50 | 2.25 | 2.10 | 40.57 |
| Amoret[1] | | 2.20 | 2.05 | 4.40 | 6.20 | 9.56 | 15.25 | 0.39 | 3.63 | 0.56 | 2.47 | 0.98 | |
| Appleton City | 0.95 | 2.36 | 2.13 | 2.37 | 4.42 | 9.56 | 10.54 | 0.94 | 2.22 | 1.10 | 5.15 | 1.40 | 43.14 |
| *Arlington | | 3.06 | 3.59 | 5.96 | 3.00 | 3.62 | 4.80 | | | | | 2.18 | |
| Arthur | 0.93 | 3.06 | 1.61 | 1.31 | 3.89 | 7.40 | 6.33 | 0.59 | 3.60 | 2.04 | 3.26 | 2.64 | 36.66 |
| Avalon | 2.32 | 3.40 | 2.73 | 3.97 | 6.37 | 7.75 | 6.30 | 0.38 | 5.57 | 5.53 | 4.34 | 3.63 | 52.29 |
| *Bagnell | | 2.20 | 2.90 | 7.80 | 4.74 | 5.98 | 7.46 | | | | | | |
| Belle | 2.78 | 2.82 | 2.45 | 3.85 | 5.50 | 3.44 | 2.83 | 0.15 | 3.74 | 0.37 | 4.70 | 3.35 | 35.98 |
| Bethany | 3.02 | 1.10 | 1.80 | 3.86 | 5.18 | 8.66 | 14.01 | 0.00 | 5.87 | 2.91 | | 3.67 | |
| Birch Tree | 2.78 | 3.79 | 4.57 | 5.95 | 4.42 | 5.68 | 6.01 | 0.60 | 3.68 | 1.88 | 3.35 | 2.28 | 44.99 |
| Bolivar | 1.81 | 2.32 | 2.31 | 3.39 | 7.89 | 6.42 | 9.37 | 0.74 | 2.52 | 4.36 | 6.82 | 2.83 | 50.78 |
| *Boonville | 1.62 | 2.66 | 1.72 | 2.98 | 7.96 | 5.44 | 6.18 | 0.82 | 4.77 | 2.86 | 3.56 | 2.78 | 43.35 |
| *Brunswick | 2.10 | 3.25 | 2.45 | 4.73 | 4.51 | 7.07 | 7.28 | 0.02 | 5.98 | 5.18 | 3.83 | 3.80 | 50.20 |
| *Cape Girardeau | 1.67 | 2.93 | 5.46 | 7.76 | 3.38 | 0.74 | | | | | | 2.04 | |
| Caruthersville | 1.59 | 6.88 | 2.61 | 2.28 | 7.30 | 3.61 | 6.57 | 2.95 | 3.12 | 2.36 | 4.08 | 3.99 | 47.34 |
| Clinton | 1.26 | 3.00 | 2.44 | 2.57 | 6.46 | 7.79 | 6.81 | 0.47 | 4.07 | 3.10 | 3.95 | 3.67 | 45.59 |
| *Columbia | 2.48 | 2.87 | 1.67 | 3.35 | 6.44 | 9.22 | 4.78 | 0.06 | 3.09 | 4.70 | 5.36 | 3.60 | 47.62 |
| Conception | 0.42 | 0.89 | 1.39 | 2.91 | 2.14 | 9.06 | 6.16 | T. | 4.65 | 2.14 | 3.03 | 1.56 | 34.95 |
| Darksville | 2.15 | 2.55 | 2.25 | 4.00 | 4.30 | 4.75 | 5.25 | 0.00 | 7.13 | 5.25 | 2.60 | 2.73 | 42.96 |
| Dean | 0.65 | 1.48 | 1.52 | 4.28 | 7.93 | 5.07 | 2.37 | 0.55 | 1.66 | 3.71 | 6.47 | 3.96 | 39.65 |
| Doniphan | 4.42 | 5.56 | 6.18 | 5.30 | 5.02 | 6.93 | 9.55 | 0.66 | 4.76 | 0.75 | 4.39 | 4.07 | 57.59 |
| El Dorado Springs | 1.52 | 2.97 | 2.15 | 2.89 | 4.92 | 5.65 | 4.47 | 0.45 | 2.63 | 2.52 | 4.70 | 3.32 | 38.19 |
| Fairport | 1.97 | 0.68 | 2.15 | 2.87 | 3.18 | 7.03 | 7.27 | 0.12 | 6.03 | 2.22 | 4.59 | 2.04 | 40.75 |
| Farmington | | 3.80 | | 5.95 | | | | | 6.01 | 2.46 | 3.38 | 2.19 | |
| Fayette | 2.16 | 2.24 | 1.75 | 4.11 | 7.37 | 5.24 | 3.97 | 0.22 | 6.25 | 4.25 | 2.36 | 2.96 | 42.88 |
| Fulton | 1.90 | 2.56 | 1.98 | 4.20 | 6.91 | 5.75 | 3.84 | 0.06 | | 4.31 | 6.07 | 3.03 | |
| Gallatin | 1.88 | 2.52 | 3.20 | 4.75 | 5.20 | 10.05 | 5.73 | 0.17 | 5.29 | 2.53 | 3.85 | 4.11 | 49.28 |
| Gano | 4.24 | 3.35 | 5.32 | 6.43 | 9.02 | 6.31 | 4.42 | 1.56 | 3.57 | 1.88 | 6.03 | 2.58 | 54.71 |
| *Glasgow | 1.54 | 3.38 | 2.00 | 7.28 | 5.98 | 6.62 | 3.96 | | 6.16 | 3.67 | 3.51 | 3.73 | |
| Goodland | 4.19 | 4.19 | 4.98 | 8.36 | 5.82 | 2.93 | 3.55 | 0.54 | 4.00 | 1.94 | 3.91 | 2.44 | 47.45 |
| Gorin | 1.10 | 2.52 | 2.09 | 4.35 | 5.20 | 3.76 | 9.22 | 0.13 | 2.49 | 2.69 | 3.00 | 2.36 | 38.91 |
| Grant City | 1.19 | 1.19 | 2.08 | 3.23 | 2.73 | 7.61 | 10.33 | 2.08 | 5.22 | 2.97 | 4.00 | 2.00 | 44.63 |
| Greenville | 5.24 | 5.30 | 5.59 | 7.27 | 4.67 | 4.69 | 2.14 | 0.20 | 5.16 | 0.75 | 4.67 | 3.41 | 49.09 |
| *Hannibal | 1.95 | 3.95 | 1.65 | 4.78 | 7.63 | 2.15 | 4.73 | 0.09 | 3.52 | 4.48 | 2.72 | 2.72 | 40.37 |
| *Harrisonville | 1.31 | 2.04 | 1.94 | 2.12 | 6.86 | 8.31 | 7.01 | 0.59 | 8.46 | 1.42 | 2.49 | 3.32 | 45.87 |
| Hazelhurst | 2.16 | 1.89 | 2.49 | 3.50 | 4.70 | 6.42 | 6.57 | T. | 3.93 | 3.41 | 2.86 | 3.35 | 41.28 |
| *Hermann | 2.98 | 2.76 | 1.92 | 4.66 | 3.81 | 2.76 | 3.90 | 0.16 | 5.88 | 4.81 | 7.05 | 2.77 | 43.46 |
| Houston | 2.42 | 3.47 | 4.79 | 7.16 | 5.50 | 7.08 | 8.21 | 0.81 | 3.83 | 1.65 | 3.71 | 2.51 | 51.14 |
| Huntsville | 1.65 | 2.25 | 1.55 | 4.40 | 4.25 | 4.10 | 5.80 | 0.00 | 7.00 | 4.10 | 2.15 | 2.25 | 39.50 |
| *Ironton | 3.57 | 4.93 | 5.54 | 8.49 | 4.75 | 3.52 | 2.68 | 0.85 | 6.57 | 0.88 | 4.64 | 2.85 | 49.27 |
| Jackson | 3.29 | 6.50 | 5.39 | 7.37 | 4.07 | 2.23 | 3.99 | 1.73 | 8.36 | 1.14 | 3.65 | 3.20 | 50.33 |
| *Jefferson City | 1.45 | 2.50 | 1.50 | 3.80 | 6.16 | 2.26 | 2.75 | 0.38 | 2.35 | 3.19 | 7.06 | 2.97 | 36.37 |
| Joplin | 3.17 | 1.10 | 1.75 | 4.20 | 6.18 | | | | 1.90 | 2.83 | 5.72 | 2.60 | |
| *Kansas City | 1.25 | 1.75 | 1.50 | 4.20 | 5.77 | 6.01 | 6.34 | 0.42 | 6.78 | 0.97 | 2.86 | 2.47 | 40.32 |
| *Kidder | 1.74 | 1.37 | 2.88 | 2.65 | 4.88 | 6.67 | 7.84 | 1.21 | 7.28 | 2.44 | 3.69 | 2.83 | 45.48 |
| Koshkonong | 3.22 | 4.12 | 5.00 | 5.88 | 5.14 | 8.87 | 6.00 | 0.75 | 3.24 | 1.38 | 3.90 | 3.37 | 50.87 |
| *Lamar | 1.97 | 2.37 | 1.40 | 3.51 | 7.76 | 4.00 | 4.33 | 0.52 | 1.09 | 1.74 | 6.00 | 2.70 | 37.39 |
| Lamonte | 1.39 | 2.58 | 1.46 | 3.16 | 5.06 | 2.36 | 5.35 | 0.20 | 3.47 | 4.96 | 2.96 | 2.54 | 35.49 |
| Lebanon | 2.84 | 2.25 | 3.00 | 4.23 | 8.94 | 3.20 | 6.27 | 0.54 | 1.26 | 2.31 | 4.86 | 2.49 | 42.19 |
| *Lexington | 1.66 | 2.37 | 1.84 | 5.55 | 5.00 | 6.28 | 6.10 | 0.61 | 12.04 | 2.75 | 2.72 | 3.77 | 50.69 |
| Liberty | 1.62 | 2.31 | 1.59 | 3.42 | 6.80 | 6.75 | 5.96 | 0.32 | 9.51 | 1.04 | 3.19 | 0.80 | 43.31 |
| Lockwood | 1.17 | 2.05 | 1.39 | 2.78 | 7.20 | 6.00 | 5.11 | 0.24 | 1.98 | 2.97 | 7.53 | 3.59 | 42.01 |
| Louisiana | 3.33 | 4.83 | 2.20 | 5.13 | 6.59 | 2.22 | 4.62 | 0.51 | 6.42 | 6.69 | 3.77 | 2.36 | 48.67 |
| Marble Hill | 3.95 | 7.30 | 5.43 | 5.99 | 5.26 | 3.57 | 4.15 | T. | 5.75 | 1.15 | 4.65 | | |
| Marshall | 2.41 | 2.56 | 1.86 | 4.64 | 5.11 | | 5.20 | 0.04 | 5.60 | 3.79 | 4.27 | 2.95 | |
| Marshfield | 3.15 | 3.80 | 2.65 | | 7.88 | 5.46 | 7.38 | | | | | 1.20 | |
| *Maryville | 1.24 | 1.09 | 2.21 | 3.53 | 3.32 | 9.76 | 10.70 | 0.52 | 5.00 | 1.56 | 4.63 | 2.82 | 46.38 |
| *Mexico | 2.49 | 3.98 | 1.84 | 5.01 | 7.90 | 4.58 | 6.07 | 0.22 | 3.63 | 3.84 | 5.80 | 3.20 | 48.57 |
| Mountain Grove | 2.21 | 3.38 | 5.37 | 5.72 | 5.66 | 4.39 | 4.47 | T. | 2.16 | 3.30 | 3.67 | 3.01 | 43.34 |
| Mount Vernon | 1.15 | 1.17 | 0.99 | 4.59 | 6.49 | 9.15 | 6.70 | 4.30 | 3.30 | 3.69 | 8.49 | 2.97 | 52.90 |
| Neosho | 1.43 | 2.31 | 2.19 | 4.35 | 6.28 | 5.74 | 4.40 | 0.37 | 2.16 | 2.92 | 12.52 | 4.14 | 48.71 |
| Nevada | 1.51 | 2.54 | 2.17 | 2.25 | 6.07 | 5.67 | 5.61 | 0.54 | 2.84 | 2.59 | 3.60 | 2.89 | 38.28 |
| *New Madrid | 2.37 | 8.37 | 6.67 | 5.67 | 5.51 | 1.49 | 6.64 | 0.69 | 6.05 | 0.90 | 4.23 | 5.13 | 54.22 |
| New Palestine | 1.38 | 3.33 | 1.53 | 2.91 | 5.39 | 3.34 | 5.54 | 0.34 | 2.72 | 4.96 | 3.19 | 2.28 | 36.91 |
| Oakfield | 2.77 | 4.05 | 3.80 | 5.93 | 7.38 | 4.01 | 9.00 | 0.47 | 6.82 | 3.23 | 4.90 | 2.65 | 55.01 |
| *Olden | 3.47 | 3.92 | 3.17 | 6.34 | 5.01 | 4.70 | 2.97 | 1.05 | 3.44 | 2.57 | 2.65 | 3.75 | 43.04 |
| Oregon | 0.70 | 0.74 | 2.55 | 3.25 | 1.85 | 7.89 | 6.23 | 0.49 | 5.86 | 2.56 | 4.41 | 2.05 | 38.58 |
| *Osceola | 1.80 | 3.50 | 2.21 | 3.25 | 6.30 | 5.88 | 7.98 | 0.40 | 4.92 | 2.98 | 5.39 | 2.86 | 47.47 |
| Parkville | 1.02 | 2.10 | 2.17 | 2.98 | 5.32 | 5.43 | 7.76 | 0.38 | | | | | |
| Perryville | 3.84 | 4.25 | 2.16 | 7.64 | | | | | | 0.10 | 1.77 | 2.39 | |
| Rolla | 3.41 | 3.22 | 3.78 | 5.90 | 7.78 | 5.42 | 4.65 | 0.63 | 2.71 | 2.22 | 5.28 | 2.53 | 47.53 |
| Sikeston | 4.37 | 7.67 | 6.97 | 5.88 | 4.43 | 1.24 | 5.77 | 2.40 | 6.57 | 1.27 | 5.00 | 4.32 | 55.89 |
| St. Charles | 2.67 | 3.74 | 3.85 | 6.06 | 5.76 | 1.77 | 6.86 | 0.09 | 3.76 | 3.73 | 5.21 | 2.10 | 45.60 |
| St. Joseph | 1.76 | 1.08 | 2.80 | 2.91 | 3.38 | 3.14 | 5.80 | 4.42 | 5.96 | 0.98 | 5.04 | 1.46 | 34.73 |
| *Springfield | 1.71 | 1.61 | 1.53 | 4.09 | 7.11 | 6.70 | 9.51 | 1.23 | 0.69 | 2.29 | 5.67 | 2.25 | 44.39 |
| *St. Louis | 3.20 | 3.94 | 3.69 | 6.18 | 5.99 | 2.63 | 7.34 | 0.66 | 4.22 | 3.40 | 4.36 | 1.89 | 47.50 |
| Steffenville | 3.05 | 2.41 | 2.85 | 4.65 | 6.59 | 5.63 | 8.65 | 0.10 | 3.74 | 3.59 | 3.25 | 3.60 | 48.11 |
| Steelville | | | 4.04 | 5.97 | 5.41 | 3.41 | 3.14 | 0.16 | 3.55 | 1.99 | 3.00 | 1.44 | |
| Sublett | 2.15 | 2.40 | | 7.68 | 7.55 | 8.15 | 12.60 | 0.05 | 3.10 | | 2.00 | 6.17 | |
| *Trenton | 2.21 | 2.12 | 3.29 | 3.68 | 4.66 | 6.18 | 8.39 | 0.10 | 4.12 | 6.38 | 2.55 | 3.09 | 43.67 |
| *Unionville | 2.86 | 2.71 | 2.41 | 5.32 | 6.66 | 6.97 | 9.92 | T. | 5.05 | 3.51 | 4.00 | 3.88 | 53.29 |
| Versailles | 2.25 | 3.04 | 1.72 | 3.64 | 5.18 | | | | | | | | |

[1] Values from February to June 24, inclusive, are for Amsterdam, 6½ miles north of Amoret.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Missouri*—Continued. | | | | | | | | | | | | | |
| Warrensburg | 2.54 | 1.97 | 0.60 | 3.25 | 4.29 | 4.76 | 6.49 | 0.57 | 4.30 | 2.97 | 1.63 | 2.99 | 36.36 |
| *Warrenton | 3.53 | 3.35 | 2.39 | 4.58 | 4.61 | 3.61 | 4.63 | 1.26 | 5.53 | 3.81 | 7.28 | 2.28 | 46.86 |
| Warsaw | 1.80 | 3.82 | 1.63 | 3.25 | 5.80 | 5.53 | 8.00 | 0.25 | 7.59 | 4.83 | 5.29 | 3.26 | 51.05 |
| Wheatland | 1.79 | 2.43 | 2.09 | 2.74 | 6.17 | 3.54 | 6.76 | 0.13 | 0.85 | 4.46 | 5.57 | 1.79 | 38.32 |
| Willow Springs | 4.07 | 5.76 | 4.65 | 6.30 | 3.24 | 3.61 | 4.85 | 0.19 | 2.50 | 3.03 | 1.20 | 1.98 | 41.38 |
| *Montana.* | | | | | | | | | | | | | |
| Adams | 1.49 | 1.09 | 0.07 | 0.12 | 6.81 | 4.05 | 3.32 | 0.56 | 0.77 | 0.02 | 0.14 | 0.15 | 18.59 |
| Adel | 1.90 | 0.10 | 0.72 | 4.64 | 2.16 | 6.03 | 5.74 | 1.40 | 5.47 | 0.69 | 1.20 | 2.45 | 32.50 |
| Agricultural College | 0.72 | 0.35 | 1.42 | 1.82 | 4.15 | 1.04 | 1.98 | 1.29 | 5.54 | 0.77 | 2.36 | 0.90 | 22.34 |
| Anaconda | 2.48 | 0.21 | 1.45 | 1.08 | 2.08 | 2.55 | 2.62 | 0.62 | 2.35 | 0.23 | 1.41 | 0.56 | 17.64 |
| Augusta | 1.90 | 0.20 | 0.67 | 1.80 | 2.53 | 5.64 | 5.51 | 0.09 | 3.70 | 0.18 | 0.65 | 0.59 | 23.46 |
| Babb | 2.70 | 0.75 | 0.57 | 4.78 | 2.09 | 3.59 | 6.06 | 0.00 | 1.60 | T. | 0.97 | 1.25 | 24.36 |
| Bald Butte | | | | | | 4.59 | 2.45 | 0.76 | 3.09 | 0.58 | 1.18 | 0.91 | |
| Big Creek | | 0.90 | 1.37 | 4.48 | 2.19 | 0.50 | 1.39 | 0.95 | 4.14 | 0.71 | 1.17 | 1.17 | |
| Big Timber | | 0.60 | 0.70 | 1.13 | 1.77 | 2.21 | 1.24 | 1.63 | | | | 0.23 | |
| *Billings | 0.69 | 0.50 | 0.94 | 0.93 | 1.64 | 2.89 | 2.16 | 0.96 | 0.79 | 0.43 | 0.30 | 0.51 | 12.74 |
| Bison Mountain | | | | | | | 3.25 | 0.95 | 3.81 | 0.95 | 2.60 | 2.07 | |
| Boulder Nursery | | | | | 3.47 | 2.51 | 3.20 | 0.99 | 4.84 | 0.26 | 0.82 | 0.95 | |
| Bowen | 1.51 | 0.47 | 0.66 | 0.47 | 1.68 | 0.77 | 2.31 | 0.63 | 2.71 | 0.13 | 2.14 | 0.44 | 13.92 |
| Bridger | 0.26 | 0.03 | 0.93 | 0.91 | 1.98 | 1.33 | 0.80 | 0.43 | 1.48 | 0.52 | 0.24 | 0.63 | 9.54 |
| Broadview Experiment Station | 1.85 | 0.35 | 0.47 | 0.74 | 1.24 | 2.19 | 1.90 | 0.69 | 1.85 | 0.50 | 0.78 | 1.64 | 14.20 |
| Browning | 2.28 | 0.61 | 1.07 | 3.90 | 2.63 | 3.01 | 2.11 | 0.10 | T. | | | | |
| Busby | 0.22 | 0.26 | 0.78 | 1.24 | 2.00 | 1.91 | | | | | 0.93 | 1.05 | |
| Busteed | 0.69 | 0.17 | 0.94 | 0.55 | 1.06 | 3.53 | 1.67 | 0.85 | 2.64 | 0.40 | 0.78 | 0.67 | 13.95 |
| Butte | 1.60 | 0.10 | 1.45 | 0.85 | 2.50 | 1.80 | 3.50 | 0.70 | 3.25 | 0.95 | 2.65 | 1.20 | 20.55 |
| Cabin Creek | | | | | | | | 0.90 | 1.52 | 0.40 | 1.08 | .60 | |
| Canyon Ferry | 0.44 | 0.10 | 0.45 | 0.45 | 1.90 | 3.43 | 2.47 | 0.69 | 1.90 | 0.32 | 0.58 | 0.11 | 12.84 |
| Cascade | 1.23 | 0.12 | 1.00 | 1.37 | 4.83 | 4.97 | 4.40 | 0.42 | 3.47 | 0.20 | 0.78 | 0.91 | 23.70 |
| Cataract Creek | | | 1.86 | 3.50 | 5.02 | 5.14 | 4.85 | 0.91 | 3.74 | 0.42 | 2.07 | 0.93 | |
| Chessman Reservoir | 1.38 | 0.34 | 1.08 | 2.69 | 2.89 | 4.31 | 3.15 | 0.66 | 3.46 | 0.35 | 1.84 | 1.00 | 23.15 |
| Chester | 0.80 | 0.12 | 0.12 | | 2.23 | 3.46 | 1.54 | | | | | | |
| Chinook | 0.83 | 0.14 | 0.12 | 0.19 | | 4.07 | 2.87 | | | | 0.76 | 0.18 | |
| Chouteau | 1.60 | 0.20 | 0.70 | 1.40 | 1.76 | 4.17 | 4.90 | 0.00 | 1.30 | 0.00 | 0.40 | 0.75 | 17.18 |
| Clear Creek | 0.76 | 0.55 | 0.92 | 1.37 | 3.34 | 6.18 | 3.96 | 0.32 | 1.40 | 0.60 | 0.77 | | |
| Clemons | | | | | | | 5.91 | 0.40 | 3.94 | 0.10 | 0.52 | 0.25 | |
| Columbia Falls | 2.69 | 1.49 | 0.68 | 0.88 | 1.54 | 4.35 | 3.00 | 0.10 | 3.47 | 0.32 | 3.27 | 2.62 | 24.41 |
| Como | 4.17 | 0.54 | 1.11 | 1.64 | 1.22 | 2.12 | 1.70 | 0.19 | 2.20 | 0.36 | 3.76 | 0.30 | 19.31 |
| Copper | 1.20 | 0.29 | 0.94 | 0.71 | 2.17 | 4.04 | 3.00 | 2.06 | 1.76 | 0.71 | 1.59 | 1.30 | 19.77 |
| Crow Agency | 0.55 | 0.70 | 1.48 | 1.71 | 2.37 | 1.84 | 0.69 | 1.01 | 1.00 | 0.46 | 1.86 | 2.14 | 15.81 |
| Culbertson | 0.80 | T. | 0.10 | 0.02 | 2.70 | 2.86 | 3.83 | | | | | | |
| Cut Bank | 1.50 | 0.18 | 0.06 | 0.43 | 2.40 | 1.69 | 4.06 | 0.16 | 0.50 | T. | 0.38 | 0.26 | 11.62 |
| Darby | 3.94 | 0.81 | 0.71 | 1.65 | 2.01 | 1.62 | 2.00 | 0.13 | 2.52 | 0.94 | 4.54 | 1.00 | 21.87 |
| Dayton | 1.39 | 0.68 | 0.35 | 0.43 | 1.48 | 3.04 | | | | | | | |
| Decker | 0.50 | T. | 0.20 | 0.30 | 3.80 | 2.80 | T. | T. | 2.00 | 0.00 | 0.90 | 1.00 | 11.50 |
| Deep Creek | | | | 0.84 | 1.16 | 3.06 | 2.79 | 0.97 | 3.44 | 0.45 | 1.53 | | |
| Delpine | | | | | | 2.80 | 3.86 | 2.76 | 4.43 | 0.12 | 0.64 | 0.23 | |
| Denton | 0.42 | 0.11 | 1.11 | 0.79 | 2.33 | 6.28 | 5.46 | 1.75 | 3.58 | 0.32 | 0.47 | | |
| Dillon | 1.74 | 0.29 | 3.38 | 1.20 | 3.56 | 1.36 | 3.78 | 0.81 | 4.14 | 0.57 | 0.92 | 0.93 | 22.68 |
| Dirty Creek | | | | | | 3.99 | 4.82 | 3.18 | 2.93 | 0.26 | 0.95 | 0.47 | |
| Dry Creek | | | | | | 3.33 | 4.10 | 1.64 | 3.98 | 1.05 | 3.64 | 1.55 | |
| Dry Wolf Camp | | | | | | 6.56 | 2.22 | 1.32 | 5.92 | 0.69 | 0.80 | 1.55 | |
| East Anaconda | 2.71 | 0.11 | 1.40 | 0.79 | 1.96 | 2.48 | 3.05 | 0.64 | 1.90 | 0.40 | 1.49 | 0.64 | 17.57 |
| East Gallatin River | | | | 1.43 | 3.65 | 1.50 | 2.36 | 1.14 | 4.20 | 1.45 | 1.89 | 1.24 | |
| Ekalaka | 0.99 | 0.50 | 0.70 | 0.55 | 3.08 | 3.23 | 2.25 | 1.03 | 1.56 | 0.05 | 0.50 | 0.61 | 15.05 |
| Elkhorn | | | 1.29 | 3.01 | 2.13 | 2.52 | 2.05 | 1.03 | 0.89 | 0.26 | 1.74 | 0.61 | |
| Ericson | 1.00 | | 2.50 | | | | | | | | | | |
| Evans | 1.87 | 0.44 | 2.47 | 5.89 | 3.46 | | | | | | | | |
| Fallon | 0.17 | 0.28 | 0.17 | 0.19 | 4.03 | 4.67 | 2.26 | 0.23 | 0.87 | T. | 0.35 | 0.25 | 13.47 |
| Family | | | 0.80 | 1.90 | 2.11 | 3.04 | 4.96 | 0.20 | T. | 0.44 | 0.90 | 0.10 | |
| Fish Creek | | | | | | | | 1.41 | 3.59 | 1.09 | 2.61 | 1.55 | |
| Fishtail Creek | | | | | | 2.15 | 1.56 | 0.50 | 3.08 | 1.29 | 0.76 | 0.89 | |
| Flathead Creek | | | | | | | | 1.70 | 4.46 | 1.71 | 4.08 | 1.84 | |
| Forsyth | 0.50 | 0.20 | 0.19 | 0.26 | 0.64 | 0.70 | 2.49 | 0.60 | 1.32 | T. | 0.40 | 0.82 | 8.12 |
| *Fort Benton | 1.30 | 0.00 | 0.50 | 1.90 | 2.54 | 5.50 | 3.86 | 0.35 | 1.75 | 0.35 | 0.70 | 0.65 | 19.40 |
| Fortine | 2.45 | 0.68 | 0.27 | 1.03 | 2.20 | 2.32 | 2.90 | | 0.97 | 0.45 | 2.47 | 1.22 | |
| Fort Shaw | 1.30 | 0.00 | 0.53 | 0.15 | 2.16 | 2.72 | 3.53 | 0.15 | 1.48 | 0.25 | 0.84 | 0.24 | 13.35 |
| Foster | | | | | | 1.99 | 0.97 | 0.32 | 0.85 | 0.14 | 0.72 | 0.32 | |
| Garneil | 0.98 | 0.16 | 0.77 | 0.94 | 3.13 | 5.06 | 3.09 | 2.37 | 3.39 | 0.99 | 4.89 | 0.65 | 26.42 |
| Glasgow | | T. | | | | | | | | | | | |
| *Glendive | 0.54 | 0.53 | T. | 0.33 | 4.78 | 5.14 | 4.17 | 0.63 | 0.70 | T. | 0.44 | 0.47 | 17.73 |
| Goldbutte | 0.38 | 0.14 | 0.57 | 0.36 | 2.08 | 1.41 | 3.48 | 0.18 | 0.16 | 0.43 | 0.25 | 0.65 | 10.09 |
| Graham | 0.24 | 0.25 | 0.17 | 1.19 | 3.79 | 3.78 | 1.55 | | 1.66 | 0.29 | 0.85 | 0.86 | |
| Grayling | | 1.80 | 0.27 | 0.39 | 1.86 | 1.19 | 1.74 | 1.05 | 3.08 | 0.61 | 1.87 | 1.15 | |
| Great Falls | 1.29 | 0.42 | 1.49 | 1.86 | 1.73 | 5.77 | 5.45 | 0.61 | 2.85 | 0.48 | 1.03 | 0.75 | 23.73 |
| Half Moon Pass | | | | | | | | 2.24 | 5.34 | 1.19 | 1.60 | 0.67 | |
| Half Way House | | | | | | | 3.94 | 1.62 | 5.81 | 1.10 | 3.63 | 2.18 | |
| Hamilton | 3.69 | 0.41 | 1.01 | 1.50 | 0.84 | 1.85 | 2.45 | 0.17 | 1.99 | 0.48 | 1.86 | 0.33 | 16.58 |
| Harlowton | | T. | 0.35 | 0.21 | 2.22 | 2.90 | 2.44 | 1.07 | | 0.00 | 1.50 | 0.25 | |
| Hassel | | | | 0.16 | 1.82 | 2.29 | 3.84 | 0.88 | 3.11 | 0.14 | 0.70 | 0.37 | |
| Hat Creek | | | | | | | 3.63 | 0.64 | 5.59 | 0.66 | 1.72 | 0.91 | |
| *Havre | 1.30 | 0.43 | 0.24 | 0.92 | 2.98 | 3.91 | 3.88 | 0.18 | 0.94 | 0.25 | 1.01 | 0.56 | 16.60 |
| *Helena | 1.38 | 0.41 | 0.55 | 1.33 | 2.40 | 4.30 | 1.84 | 0.42 | 2.14 | 0.27 | 0.51 | 0.59 | 16.14 |
| Highwood | | | 1.49 | 1.77 | 3.97 | 6.89 | 5.29 | 1.67 | 4.74 | 0.31 | 1.06 | 2.74 | |
| Homepark | 0.87 | 0.67 | 1.01 | 0.63 | 1.88 | 0.46 | 2.38 | 0.53 | 2.52 | 0.41 | 0.73 | 0.36 | 12.45 |
| Huntley | 0.49 | 0.11 | 1.27 | 0.90 | 2.56 | 1.99 | 1.33 | 0.68 | 0.80 | 0.50 | 0.65 | 0.75 | 12.03 |
| Jocko | | 0.30 | 1.75 | 2.31 | 1.66 | 3.33 | 3.35 | | | | | | |
| Jones Canyon | | | | 3.14 | 2.75 | | 2.45 | 2.49 | 4.34 | 1.08 | 3.80 | 2.16 | |
| Jordan | 1.10 | 0.70 | | 0.55 | | 2.89 | 4.71 | 0.80 | 0.40 | 0.43 | 0.20 | 0.10 | |
| *Kalispell | 1.80 | 1.11 | 0.72 | 0.83 | 1.47 | 3.05 | 3.07 | 0.11 | 1.21 | 0.43 | 2.99 | 1.01 | 17.80 |
| Kleinsmith Creek | | | 0.75 | 3.72 | 4.85 | 1.91 | 2.81 | 1.29 | 2.37 | 0.91 | 1.54 | 0.58 | |
| Lewistown | 1.25 | 0.10 | 1.27 | 1.19 | 2.50 | 4.86 | 4.20 | 2.73 | 4.23 | | 0.91 | 1.21 | |
| Livingston | 0.71 | 0.44 | 0.63 | 1.13 | 4.60 | 0.83 | 1.68 | 1.69 | 4.30 | 0.79 | 1.73 | 0.57 | 19.10 |
| Lodge Pole Creek | | | | | | | 1.85 | 0.71 | 3.25 | 0.65 | 1.85 | 1.46 | |
| Lonetree | 0.83 | 0.32 | 1.10 | 2.41 | 2.24 | 5.90 | 8.75 | 0.85 | 3.08 | 0.20 | 0.90 | 1.30 | 27.78 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Montana*—Continued. | | | | | | | | | | | | | |
| Lost Horse Creek | | | | | | 4.76 | 2.27 | 2.13 | 3.48 | 0.37 | 0.95 | 0.82 | ..... |
| Lubec | 1.05 | 1.60 | 1.43 | 5.11 | | | | | | | | | ..... |
| Malta | | | 0.01 | 0.63 | 1.98 | 5.10 | 1.25 | 0.32 | 0.29 | 0.09 | 0.84 | 0.40 | ..... |
| Meadow Creek | | | | | | | | 0.12 | 2.03 | 0.16 | 1.76 | 1.15 | ..... |
| Melstone | | | | | 2.28 | 5.42 | 2.35 | 0.85 | 0.94 | 0.88 | 0.58 | 0.55 | ..... |
| Mildred | | | | 0.10 | 3.62 | 5.29 | 1.67 | ..... | 1.46 | 0.00 | 0.05 | T. | ..... |
| *Miles City | 0.65 | 0.68 | 0.29 | 1.15 | 2.16 | 2.19 | 2.63 | 0.77 | 1.11 | 0.12 | 1.19 | 0.37 | 13.31 |
| Mill Creek | | 2.05 | 1.35 | 1.66 | 2.22 | 0.47 | 0.75 | 1.05 | 3.52 | 0.44 | 0.77 | 1.15 | ..... |
| *Missoula | 1.86 | 0.09 | 1.49 | 1.19 | 0.99 | 2.65 | 3.52 | 0.34 | 2.38 | 0.34 | 1.39 | 0.11 | 16.35 |
| Moore | 0.30 | 0.24 | 1.15 | 0.62 | 2.28 | 4.93 | 3.06 | 1.54 | 4.31 | 0.94 | 1.28 | 0.80 | 21.45 |
| Mudd Creek | | | | | | | 2.67 | 0.51 | | | | | ..... |
| Norris | 0.05 | 0.02 | 2.09 | 1.00 | 6.04 | 1.02 | 2.34 | 2.83 | 4.54 | 0.70 | 1.57 | 1.85 | 24.05 |
| Nye | 0.91 | 0.30 | 1.17 | 2.91 | 4.14 | 2.79 | 2.19 | 0.28 | 2.69 | 0.87 | 1.71 | 0.88 | 20.84 |
| Olsen Creek | | | 1.00 | 0.52 | 2.47 | 1.96 | 3.03 | 1.09 | 3.43 | 0.70 | 2.57 | 0.73 | ..... |
| Ophir | | | | | | 2.64 | 3.34 | 1.12 | 2.89 | 0.67 | 1.29 | 0.70 | ..... |
| Ovando | 2.79 | 4.40 | 1.26 | 1.29 | 1.34 | 1.19 | 2.67 | 0.45 | 1.88 | | | | ..... |
| Philipsburg | 2.14 | 0.20 | 1.74 | 1.17 | 2.53 | 1.69 | 3.21 | 0.60 | 2.90 | 0.55 | 1.33 | 0.39 | 18.45 |
| Pipestone Pass | | | 0.94 | 2.10 | 2.73 | 1.47 | 3.39 | 1.06 | 3.62 | 1.06 | 1.07 | 0.83 | ..... |
| Plains | 3.50 | 0.20 | 0.40 | 0.80 | 0.15 | 2.35 | 4.40 | T. | 2.18 | T. | 2.87 | T. | 16.83 |
| Pleasant Valley | 2.89 | 1.37 | 0.81 | 0.52 | 1.59 | 1.49 | 2.54 | 0.12 | 1.17 | 0.74 | 5.27 | 0.53 | 19.04 |
| Polson | | 0.30 | 0.72 | 0.73 | 1.41 | 2.96 | 3.59 | 0.00 | 2.32 | 0.46 | 2.24 | 0.37 | ..... |
| Poplar | 0.82 | 0.93 | T. | 0.22 | 2.20 | 3.84 | 2.08 | 0.95 | 0.22 | 0.15 | 0.60 | 0.21 | 12.22 |
| Raymond | 1.00 | 0.30 | 0.10 | 1.57 | 1.87 | 4.60 | 6.15 | 0.05 | 0.95 | 0.10 | 0.64 | | ..... |
| Red Lodge | 0.54 | 0.17 | 1.56 | 3.43 | 3.07 | 2.25 | 1.08 | 0.38 | 3.51 | 1.19 | 0.76 | 1.56 | 19.50 |
| Reese Creek | | | | 1.50 | 7.26 | 3.16 | 2.25 | 1.46 | 4.54 | 1.37 | 4.80 | 3.74 | ..... |
| Renova | 1.21 | 0.12 | 0.82 | 0.96 | 2.38 | 0.94 | 3.16 | 0.93 | 3.35 | 0.45 | 1.72 | 0.36 | 16.40 |
| Rimini | 1.94 | 0.57 | 1.14 | 2.86 | 2.82 | 4.16 | 3.60 | 1.20 | 4.23 | 0.38 | 1.54 | 1.15 | 25.59 |
| Ryegate | | | | | | 4.28 | 2.01 | 2.11 | 3.30 | 0.42 | 0.74 | 0.70 | ..... |
| St. Ignatius | 2.16 | 0.11 | 1.44 | 1.15 | 1.58 | 1.78 | 2.88 | 0.09 | 1.93 | 0.37 | 1.25 | 0.53 | 15.27 |
| St. Regis | 5.27 | 1.95 | 0.79 | | 1.72 | | | 0.19 | 1.22 | 1.47 | 5.34 | 0.57 | ..... |
| Saltese | 9.97 | 7.25 | 1.00 | 2.30 | 1.50 | 0.75 | 2.85 | 0.30 | 2.72 | 1.30 | 12.50 | 2.36 | 44.80 |
| Sedan | 1.44 | 0.41 | 0.54 | 1.15 | 2.14 | 1.87 | 2.44 | 1.27 | 3.18 | 0.75 | 2.11 | 0.25 | 17.55 |
| Snowshoe | 15.48 | 6.97 | 2.30 | 2.50 | 1.63 | 2.80 | 4.73 | 0.82 | 5.27 | 5.27 | 27.92 | 4.26 | 79.95 |
| Springbrook | 1.15 | 1.78 | 0.51 | 0.58 | 3.68 | 3.47 | 3.38 | 1.21 | 1.11 | T. | 0.76 | 1.28 | 18.91 |
| Stearns | | | | | | | 5.14 | 1.44 | 5.15 | 0.29 | 1.72 | 0.76 | ..... |
| Tokna | 0.27 | 0.20 | T. | 0.09 | 5.92 | 3.88 | 1.69 | 0.55 | 0.72 | T. | 0.50 | 0.49 | 14.31 |
| Toston | 2.22 | 0.00 | ..... | 0.46 | 0.71 | 2.20 | 2.75 | ..... | ..... | ..... | ..... | ..... | ..... |
| *Townsend | | | | 0.65 | 0.85 | 2.43 | 4.15 | ..... | 2.77 | 0.58 | ..... | ..... | ..... |
| Trail Creek | | 1.80 | 3.07 | 2.48 | 4.69 | 1.86 | 1.65 | 1.89 | 4.28 | 1.33 | 2.09 | 1.06 | ..... |
| Troy | 6.62 | 2.74 | 1.15 | 0.60 | 1.08 | 1.38 | 2.69 | 0.32 | 1.60 | 2.25 | 8.39 | 1.47 | 30.29 |
| Upper Lake McDonald | 7.23 | 2.15 | 0.87 | 1.39 | 1.84 | 3.49 | 3.23 | 0.20 | 2.40 | | | 2.75 | ..... |
| Utica | 0.90 | 0.08 | 1.22 | 0.95 | 1.84 | 6.66 | 4.97 | 1.28 | 4.27 | 0.49 | 0.30 | 1.20 | 24.16 |
| Valentine | 1.06 | 0.07 | 0.42 | 0.62 | 2.60 | 4.81 | 2.35 | 1.64 | 1.24 | 1.23 | 0.44 | 0.66 | 17.14 |
| Virginia City | | | 3.76 | 2.84 | 2.77 | 0.57 | 1.81 | 0.65 | 3.17 | 0.58 | 3.48 | 0.37 | ..... |
| Wall Rock Mountain | | | | | 1.71 | 2.81 | 2.71 | 1.41 | 3.74 | 1.15 | 2.10 | 0.42 | ..... |
| Warm Springs Creek | | | | | | | 2.57 | 1.44 | 3.82 | 1.05 | 1.57 | 0.88 | ..... |
| West Rosebud Creek | | | | | | 2.20 | 1.32 | 0.11 | 2.63 | 1.40 | 0.15 | 1.79 | ..... |
| Willow Creek | | 1.05 | | | 3.10 | 1.82 | 1.73 | 1.36 | 3.99 | 0.57 | 2.27 | 0.68 | ..... |
| Wolf Creek | 0.27 | T. | 0.62 | 0.15 | 1.01 | 3.74 | 2.26 | 0.18 | 3.45 | 0.11 | 0.93 | 1.33 | 14.55 |
| *Wolf Point | | | | 0.23 | 2.56 | 4.48 | 2.22 | ..... | 0.00 | 0.00 | ..... | ..... | ..... |
| Woodville | | | | | | 1.81 | 2.84 | 0.74 | 2.84 | 0.85 | 1.78 | 0.39 | ..... |
| *Nebraska.* | | | | | | | | | | | | | |
| Ainsworth | 0.92 | 1.62 | 1.88 | 2.05 | 4.82 | 2.82 | 4.07 | 5.28 | 3.28 | 1.09 | 2.86 | 3.14 | 33.83 |
| Alliance | 0.55 | 1.22 | 1.30 | 1.38 | 3.57 | 5.50 | 0.40 | 1.90 | 1.41 | 0.80 | 1.40 | | ..... |
| Alma | 0.03 | 0.57 | 1.14 | 0.43 | 1.16 | 4.32 | 3.56 | 1.93 | 2.82 | 1.53 | 2.57 | 1.53 | 21.59 |
| Anoka | 0.46 | 1.47 | 0.83 | 1.34 | 3.74 | 4.17 | 3.79 | 2.50 | 1.53 | 1.23 | 1.30 | 1.19 | 23.55 |
| Arcadia | 0.20 | 1.55 | 0.61 | 1.09 | 2.78 | 1.50 | 6.22 | 2.16 | 1.49 | 0.90 | 2.10 | 0.65 | 21.25 |
| *Ashland | 0.67 | 0.86 | 0.35 | 1.54 | 3.76 | 4.39 | 3.33 | 0.96 | 5.09 | 0.98 | 7.66 | 2.53 | 32.12 |
| Ashton | 0.09 | 0.10 | 0.11 | ..... | 3.71 | 4.93 | 6.82 | 1.57 | 3.36 | 1.37 | 0.57 | 0.21 | ..... |
| Atkinson | | | | | | 0.15 | 2.35 | 3.70 | 3.06 | 0.73 | 1.21 | 0.97 | ..... |
| *Auburn | 1.07 | 0.79 | 2.33 | 2.41 | 3.44 | 5.74 | 6.35 | 0.35 | 4.48 | 0.73 | 9.07 | 1.82 | 38.58 |
| Aurora | 0.10 | 0.60 | 0.70 | 0.35 | 2.85 | | | 1.30 | 3.48 | 2.33 | 3.31 | | ..... |
| *Beatrice | 0.84 | 1.03 | 1.74 | 1.37 | 3.58 | 2.73 | 8.17 | 0.34 | 4.59 | 0.44 | 6.80 | 3.95 | 35.58 |
| Beaver City | T. | 1.04 | 1.29 | 1.34 | 0.87 | 5.95 | 2.59 | 2.00 | 2.29 | 1.42 | 2.40 | 1.33 | 22.52 |
| Bellevue | 2.03 | 1.07 | 0.56 | 1.94 | 4.68 | 5.99 | 3.12 | 0.65 | 6.05 | 1.12 | 9.95 | 2.38 | 39.54 |
| Benkelman | | | | | | | | | 0.81 | 0.63 | 2.20 | 0.64 | ..... |
| Bertrand | T. | 0.62 | 0.83 | 1.43 | 0.97 | 2.65 | 1.56 | 2.57 | 2.41 | 1.30 | 1.23 | 0.86 | 16.43 |
| *Blair | 0.57 | 1.89 | 0.31 | 1.78 | 2.38 | 6.81 | 7.97 | 2.38 | 5.58 | 1.20 | 7.38 | 2.39 | 40.64 |
| Bloomfield | 0.45 | 1.70 | 0.70 | | | | 2.82 | ..... | 3.05 | 2.52 | 1.40 | 1.80 | ..... |
| Bloomington | 0.20 | 0.09 | 1.16 | 0.27 | 0.30 | 5.73 | | | | | | | ..... |
| Bluehill | 0.00 | 0.20 | 1.90 | 0.47 | 1.21 | 6.95 | 6.15 | 0.71 | | | | | ..... |
| Bradshaw | 0.17 | 0.90 | 0.50 | 1.24 | 2.75 | 7.89 | 7.95 | 2.41 | 4.55 | 2.49 | 4.25 | 3.05 | 38.15 |
| Bridgeport | 0.52 | 0.60 | 0.10 | 0.46 | 2.86 | 4.96 | 2.62 | 0.12 | 1.05 | 0.70 | 1.30 | 1.95 | 17.24 |
| *Brokenbow | 0.10 | 0.48 | 0.05 | 1.17 | 1.38 | 3.65 | 0.93 | 4.08 | 3.18 | 0.81 | 1.07 | 1.44 | 24.34 |
| Burchard | 0.30 | 0.65 | 1.90 | 0.97 | 4.08 | 3.70 | 9.03 | | | | | | ..... |
| Burge | | | | | 2.27 | 1.20 | 1.11 | 4.32 | 1.75 | T. | 2.15 | 1.17 | ..... |
| Burwell | 0.40 | 1.10 | 0.30 | 0.32 | 3.05 | 1.25 | 1.68 | | | | | | ..... |
| Cairo | | | | | | | 7.19 | 1.77 | 1.99 | 2.54 | 2.20 | 0.95 | ..... |
| Callaway | 0.25 | 1.08 | T. | | 1.94 | 1.32 | 3.93 | 1.13 | 2.73 | 0.59 | 2.26 | 1.12 | ..... |
| Cambridge | T. | 1.13 | 1.54 | 0.76 | 3.09 | 5.99 | 2.54 | 1.78 | 1.47 | 0.80 | 2.19 | 1.10 | 22.39 |
| Canton (near) | | | | | 3.51 | 4.01 | 1.35 | 0.88 | 0.34 | 0.94 | 0.91 | 1.25 | ..... |
| Central City | 0.00 | 0.70 | 0.05 | 0.40 | 3.05 | | | | | | | | ..... |
| *Columbus | 0.19 | 1.05 | 0.21 | 0.94 | 3.02 | 7.52 | 7.93 | 2.28 | 4.73 | 1.14 | 2.73 | 2.41 | 34.15 |
| Cozad | T. | 0.66 | 1.05 | 0.88 | 2.19 | 5.48 | 3.28 | 2.39 | 2.07 | 0.74 | 1.40 | 1.79 | 21.93 |
| Creighton | | | 1.05 | 1.49 | 5.93 | 5.29 | 2.44 | 3.16 | 3.43 | 1.98 | 2.06 | 2.88 | ..... |
| Crete | 0.42 | 0.80 | 0.64 | 1.54 | 6.17 | 2.69 | 5.33 | 0.96 | 3.78 | 1.08 | 6.52 | 3.71 | 33.64 |
| *Culbertson | T. | 0.44 | 1.44 | 1.00 | 1.22 | 4.49 | 1.75 | 0.35 | 3.01 | ..... | 2.17 | 1.58 | ..... |
| Curtis | | | | | | 4.84 | 1.68 | 1.75 | 2.05 | | | 1.83 | ..... |
| David City | 0.62 | 1.39 | 0.67 | 1.14 | 4.18 | 3.74 | 6.00 | 2.66 | 4.20 | 1.55 | 4.81 | 3.48 | 34.44 |
| Dawson | 0.34 | 0.92 | 1.51 | 1.72 | 2.94 | 6.63 | 8.34 | 0.47 | 4.73 | 1.08 | 9.49 | 2.20 | 40.37 |
| Dubois | 0.25 | 0.85 | 1.85 | 2.21 | 3.72 | 5.69 | 8.30 | 0.34 | 6.89 | 1.30 | 9.98 | 2.98 | 44.36 |
| Duff | 0.40 | 0.66 | 0.50 | 1.48 | 4.35 | 1.00 | 4.16 | 2.99 | | | | | ..... |
| Edgar | 0.20 | 1.30 | 1.87 | 0.59 | 4.84 | 6.12 | 7.64 | 0.74 | 8.49 | 3.72 | 2.98 | 3.15 | 41.64 |
| Ellis | 0.38 | 0.70 | 1.35 | 0.60 | 4.47 | 2.72 | 7.26 | 0.70 | 7.60 | 0.55 | 7.60 | 3.26 | 37.19 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Nebraska*—Continued. | | | | | | | | | | | | | |
| Elmcreek | 0.00 | 0.49 | 1.50 | 1.21 | 2.82 | 2.26 | 5.76 | 1.42 | 2.93 | 1.35 | 1.85 | 1.17 | 22.75 |
| Elsie | 0.03 | 1.03 | 1.33 | ..... | 3.22 | 3.23 | 1.46 | 1.76 | 2.02 | 0.16 | 0.87 | 1.74 | ..... |
| Enderslake | ..... | ..... | ..... | ..... | 2.82 | 2.65 | 0.34 | 1.38 | 1.90 | 0.50 | 0.30 | ..... | ..... |
| Endicott | 0.20 | 1.12 | 1.05 | 0.52 | 4.90 | 3.90 | 5.15 | 1.25 | 3.30 | 0.20 | 2.50 | 2.02 | 27.01 |
| Ewing | 0.30 | 1.30 | 0.70 | 0.77 | 3.95 | 3.22 | 4.51 | 3.28 | 5.27 | 1.53 | 1.25 | 2.10 | 28.18 |
| *Fairbury | 1.03 | 1.21 | 2.02 | 1.28 | 5.23 | 3.24 | 5.82 | 2.34 | 6.22 | 0.98 | 6.73 | 3.40 | 39.50 |
| *Fairmont | 0.10 | 1.02 | 0.95 | 0.42 | 2.18 | 4.36 | 6.20 | 0.70 | 3.90 | 1.75 | 4.36 | 3.79 | 29.73 |
| Fort Robinson | 0.74 | 0.28 | 0.99 | 0.93 | 4.69 | 4.33 | 0.37 | 0.87 | 2.21 | 1.11 | 1.02 | 1.41 | 18.95 |
| Franklin | 0.15 | 0.15 | 1.50 | 0.55 | 0.84 | 5.70 | 4.64 | 1.25 | 2.90 | 1.75 | 3.90 | 2.50 | 25.83 |
| Fremont | 0.53 | 1.70 | 0.57 | 1.40 | 2.64 | 7.64 | 7.14 | 1.89 | 6.19 | 0.89 | 7.01 | 2.78 | 39.38 |
| Fullerton | 0.60 | 1.65 | 0.13 | 0.70 | 3.85 | 4.79 | 7.51 | 3.07 | 5.58 | 2.17 | 4.03 | 2.20 | 36.28 |
| Geneva | 0.17 | 0.83 | 1.43 | 0.40 | 3.12 | 7.65 | 7.05 | 0.50 | 5.10 | 1.82 | 4.65 | 3.04 | 35.76 |
| Genoa | 0.33 | 0.71 | 0.14 | 0.85 | 2.89 | 4.80 | 6.16 | 2.55 | 3.29 | 1.77 | 1.79 | 2.52 | 27.80 |
| Gordon | ..... | ..... | ..... | ..... | ..... | 2.09 | 0.77 | 4.74 | 1.45 | 0.11 | 1.75 | 1.00 | ..... |
| Gosper | T. | 0.25 | 0.94 | 1.16 | 1.13 | 3.39 | 2.48 | 0.36 | 1.68 | 1.00 | 1.47 | 0.68 | 14.54 |
| Gothenburg | T. | 0.98 | 0.60 | 0.80 | 1.89 | 3.73 | 3.73 | 2.14 | 1.37 | 0.50 | 2.27 | 1.25 | 19.26 |
| *Grand Island | 0.05 | 0.09 | 0.57 | 0.62 | 1.71 | 2.65 | 4.35 | 1.70 | 2.02 | 1.96 | 0.97 | 0.75 | 17.44 |
| Grant | T. | 1.50 | ..... | 0.70 | 3.06 | 3.94 | 2.63 | 1.15 | 1.72 | 0.15 | ..... | 1.78 | ..... |
| Greeley | 0.44 | 1.06 | 0.56 | 1.88 | 4.01 | 0.55 | 5.01 | 1.73 | 2.37 | 1.72 | 2.47 | 2.50 | 24.30 |
| Guiderock | 0.20 | 0.47 | 2.60 | 0.39 | 2.77 | 3.54 | 5.70 | 0.98 | 6.43 | 2.79 | 4.07 | 2.02 | 31.96 |
| Haigler | 0.00 | 0.55 | 1.33 | 0.27 | 1.05 | 8.12 | 2.54 | 1.19 | 0.84 | ..... | 2.05 | 1.07 | ..... |
| Halsey | 0.55 | 0.93 | 0.63 | 1.64 | 4.25 | 2.48 | 3.53 | 2.97 | 4.62 | 0.45 | 1.19 | 1.51 | 24.75 |
| *Hartington | 0.70 | 1.80 | 0.65 | 1.83 | 5.12 | 5.62 | 4.69 | 3.35 | 4.32 | 1.00 | 2.70 | 1.47 | 33.25 |
| Harvard | 0.12 | 0.79 | 0.89 | 0.52 | 1.31 | 4.26 | 4.69 | 0.88 | 6.40 | 3.17 | 2.30 | 1.24 | 26.57 |
| *Hastings | 0.20 | 0.79 | 0.60 | 0.36 | 0.64 | 3.18 | 3.39 | 2.50 | 5.65 | 1.39 | 3.32 | 2.28 | 24.21 |
| Hayes Center | T. | 2.08 | 2.80 | 0.45 | 2.61 | 5.70 | 0.70 | 3.56 | 1.55 | 0.27 | 3.50 | 2.60 | 25.62 |
| Hay Springs | 0.95 | 1.40 | 1.90 | 1.51 | 6.25 | 2.57 | 2.03 | 3.66 | 1.35 | 0.92 | 2.05 | 1.35 | 25.94 |
| Hebron | 0.57 | 0.84 | 2.02 | 0.58 | 3.24 | 3.66 | 4.70 | 0.47 | 6.13 | 2.40 | 8.47 | 2.13 | 35.21 |
| Hemingford | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.95 | 0.27 | 0.48 | ..... |
| Hendley | 0.02 | 0.62 | 1.21 | 1.05 | 1.19 | 5.45 | 2.51 | 1.18 | 1.76 | 1.27 | 2.60 | 1.20 | 20.06 |
| Hillside | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.77 | 0.91 | 0.77 | 1.67 | ..... |
| *Holdrege | 0.10 | 2.20 | 1.40 | 1.03 | 1.53 | 2.81 | 3.66 | 2.28 | 1.67 | 1.35 | 2.58 | 1.23 | 21.84 |
| Hooper | 0.41 | 1.70 | 0.49 | 1.04 | 3.04 | 7.78 | 5.82 | 1.79 | 4.77 | 4.02 | 6.43 | 1.71 | 39.10 |
| Imperial | T. | 0.59 | 2.17 | 0.63 | 3.01 | 4.40 | 1.59 | 1.59 | 1.52 | 0.20 | 2.46 | 1.87 | 20.03 |
| Kearney | T. | 0.59 | 1.49 | 0.61 | 1.98 | 2.15 | 3.65 | 1.00 | 3.31 | 1.49 | 1.72 | 1.12 | 19.11 |
| Kimball | 0.10 | 1.70 | 0.80 | 0.76 | 2.06 | 6.10 | 1.76 | 2.16 | 0.47 | 0.60 | 0.45 | 0.90 | 17.86 |
| Kirkwood | 0.35 | 1.40 | 0.70 | 1.30 | 5.44 | 3.11 | 2.76 | 3.70 | 2.71 | 0.74 | 1.90 | 2.26 | 26.37 |
| Kowanda | 0.20 | 1.55 | 1.60 | 0.52 | 1.79 | 3.53 | 0.59 | 0.65 | 1.86 | 0.55 | 0.40 | 0.51 | 13.75 |
| Leavitt | ..... | ..... | 0.25 | 0.95 | 1.40 | 9.17 | 6.15 | ..... | ..... | ..... | ..... | ..... | ..... |
| Lexington | T. | 0.35 | 1.25 | 0.90 | 0.94 | 3.33 | 3.61 | 3.41 | 2.04 | 0.86 | 1.15 | 0.98 | 18.82 |
| *Lincoln | 0.85 | 1.13 | 0.95 | 1.08 | 5.63 | 3.08 | 4.87 | 1.24 | 4.69 | 1.49 | 7.14 | 2.59 | 34.74 |
| Lodgepole | ..... | ..... | ..... | ..... | 3.00 | 7.45 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Loup | T. | 0.75 | T. | 1.19 | 2.98 | 3.58 | 4.80 | 1.83 | 2.74 | 1.09 | 1.58 | 0.62 | 21.16 |
| Loyal | ..... | ..... | ..... | 0.70 | 1.55 | 3.20 | 3.30 | 3.90 | 2.40 | 0.50 | 1.50 | 0.50 | ..... |
| Lynch | 0.20 | 1.60 | 0.80 | 1.20 | 3.79 | 2.39 | 4.04 | 2.42 | 1.98 | 2.05 | 2.03 | ..... | ..... |
| McCook | 0.00 | 0.38 | 1.72 | 1.57 | 4.89 | 4.60 | 1.19 | 1.44 | ..... | 0.59 | 2.02 | 1.13 | ..... |
| McCool Junction | T. | 0.60 | 0.90 | 0.47 | 2.54 | 4.29 | 4.60 | 1.87 | 3.72 | 3.10 | 3.97 | 2.79 | 28.85 |
| Madison | 1.30 | 1.60 | 0.25 | ..... | 3.33 | 4.55 | 4.32 | 4.35 | 5.18 | 1.43 | 2.80 | 2.20 | ..... |
| Marquette | 0.44 | 1.27 | 0.42 | 0.73 | 3.44 | 3.72 | 5.13 | 2.70 | 3.87 | 1.85 | 1.83 | 1.99 | 27.39 |
| Mason City | 0.20 | 0.45 | 0.25 | 0.53 | 1.81 | 1.20 | 4.66 | 2.49 | 1.66 | 1.20 | 1.30 | 1.85 | 17.60 |
| Minden | 0.23 | 1.54 | 1.53 | 0.85 | 2.41 | 2.60 | 4.00 | 1.67 | 3.40 | 3.06 | 2.34 | 1.78 | 25.41 |
| Mitchell | ..... | ..... | ..... | ..... | ..... | 4.22 | 1.13 | 3.76 | 0.54 | 0.63 | 0.69 | 0.46 | ..... |
| Monroe | 1.01 | 1.19 | 0.40 | 0.84 | 3.58 | 3.80 | 7.38 | 2.61 | 3.70 | 1.37 | 2.69 | 2.62 | 31.19 |
| Nebraska City | 0.85 | 0.68 | 1.65 | 1.41 | 3.85 | 7.33 | 4.01 | 0.17 | 5.77 | ..... | 6.79 | 2.20 | ..... |
| Norfolk | 0.94 | 2.19 | 0.19 | 2.05 | 2.55 | 4.39 | 4.71 | 2.78 | 3.64 | 1.98 | 2.74 | 2.34 | 30.50 |
| North Loup | 0.30 | 0.60 | 0.22 | 1.40 | 4.57 | 1.28 | 6.20 | 0.95 | 1.90 | 0.98 | 1.26 | 1.29 | 20.95 |
| *North Platte | 0.29 | 1.61 | 0.98 | 0.72 | 2.32 | 5.46 | 5.21 | 1.24 | 0.77 | 0.20 | 2.24 | 1.37 | 22.41 |
| *Oakdale | 0.83 | 1.93 | 0.20 | 1.34 | 5.78 | 2.53 | 3.59 | 5.34 | 4.13 | 1.89 | 2.02 | 2.00 | 31.58 |
| Odell | 0.07 | 0.40 | 1.60 | 0.98 | 5.33 | 6.17 | 7.37 | 0.42 | 7.96 | 0.55 | 5.55 | 2.65 | 39.05 |
| *Omaha | 1.00 | 1.21 | 0.63 | 1.34 | 3.80 | 7.54 | 4.40 | 0.88 | 5.25 | 1.70 | 6.24 | 2.33 | 36.32 |
| Ord | 0.43 | 0.56 | 0.73 | 0.67 | 3.21 | 1.34 | 4.97 | 1.87 | 2.23 | 1.00 | 1.36 | 0.84 | 19.21 |
| Orleans | 0.20 | 0.59 | 1.23 | 0.93 | 1.01 | 3.84 | 2.76 | 2.33 | 3.41 | 2.54 | 2.28 | 0.80 | 21.92 |
| Osceola | 0.04 | 0.70 | 0.47 | ..... | ..... | ..... | ..... | ..... | ..... | 2.36 | 1.92 | 1.30 | ..... |
| Palisade | ..... | ..... | 1.53 | ..... | 3.14 | 4.72 | ..... | ..... | 0.48 | 0.26 | 2.04 | 1.18 | ..... |
| Palmyra | ..... | ..... | ..... | 1.50 | 5.26 | 5.02 | 5.15 | 0.43 | 5.83 | 1.43 | 7.84 | ..... | ..... |
| Pawnee City | 0.55 | 0.70 | 1.66 | 1.23 | 3.27 | 5.43 | 7.61 | 0.24 | 6.36 | 1.19 | 8.35 | 2.56 | 39.15 |
| Plymouth | 0.76 | 0.87 | 1.53 | 1.14 | 3.71 | 2.14 | 8.63 | 0.28 | 5.27 | 0.40 | 6.13 | 3.32 | 34.18 |
| Purdum | 0.50 | 1.40 | 0.90 | 1.43 | 3.15 | 1.98 | 3.04 | 2.33 | 2.17 | 0.43 | 1.99 | 2.21 | 21.53 |
| Ravenna | 0.26 | 1.20 | 0.53 | 1.10 | 2.56 | 1.78 | 5.47 | 2.74 | 1.57 | 1.52 | 1.77 | 1.41 | 21.90 |
| Redcloud | 0.13 | 0.21 | 1.57 | 0.45 | 2.15 | 6.19 | 5.73 | 1.05 | 5.32 | 1.56 | 3.28 | 1.79 | 29.43 |
| St. Libory | 0.30 | 0.90 | 0.35 | 0.84 | 3.30 | 3.70 | 9.96 | 2.42 | 2.81 | 2.88 | 1.99 | 1.54 | 30.99 |
| St. Paul | 0.21 | 0.60 | 0.22 | 1.22 | 2.50 | 2.17 | 6.76 | 1.57 | 2.50 | 1.33 | 3.20 | 1.18 | 23.52 |
| Santee | 0.22 | 1.20 | 1.37 | 1.75 | 8.44 | 8.07 | 2.93 | 1.34 | 0.36 | 2.09 | 1.97 | 2.23 | 31.97 |
| Sargent | 0.30 | 1.05 | ..... | 0.62 | 2.54 | 1.88 | 5.75 | 2.12 | 1.57 | 0.90 | 0.80 | ..... | ..... |
| Schuyler | 0.20 | 1.25 | 0.30 | 1.03 | 5.18 | 4.57 | 6.86 | 1.81 | 4.56 | 0.80 | 2.58 | 2.57 | 31.71 |
| Scottsbluff | 0.73 | 1.47 | 0.70 | 0.74 | 4.04 | 4.56 | 2.53 | 0.25 | 1.77 | 0.97 | 0.72 | 0.70 | 19.18 |
| Seward | 0.32 | 1.01 | 0.22 | 0.62 | 3.83 | 4.17 | 5.77 | 1.93 | 4.52 | 3.65 | 4.61 | 2.77 | 33.42 |
| Sheridan | 0.32 | 1.00 | 0.20 | 1.02 | 3.76 | 2.82 | 5.90 | 3.76 | 2.87 | 1.30 | 0.70 | 1.05 | 24.70 |
| Sidney | T. | 1.60 | 1.80 | 0.40 | 1.97 | 6.63 | 1.92 | 1.57 | 1.84 | 0.49 | 0.51 | 0.70 | 19.43 |
| Springview | 0.50 | 2.40 | 1.20 | 1.05 | 4.12 | 3.13 | 2.08 | 3.16 | 1.33 | 0.55 | 2.00 | 2.40 | 23.92 |
| Stanton | 0.70 | 2.15 | 0.20 | 1.35 | 3.19 | 3.83 | 4.29 | 2.96 | 4.82 | 1.79 | 2.85 | 2.20 | 30.33 |
| Stratton | 0.00 | 0.20 | 2.30 | 0.60 | 1.06 | 4.33 | 0.94 | 2.72 | 1.77 | 0.35 | 2.50 | 1.61 | 18.38 |
| Superior | 0.10 | ..... | 1.55 | ..... | 2.03 | ..... | ..... | ..... | 5.37 | 2.65 | 4.10 | 1.40 | ..... |
| Syracuse | 1.35 | 1.40 | 1.60 | 2.02 | 3.97 | 3.52 | 5.20 | 0.20 | 5.45 | 0.80 | 8.35 | 3.40 | 37.26 |
| Tablerock | 0.38 | 0.83 | 1.80 | 1.90 | 4.29 | 4.23 | 7.89 | 0.34 | 5.16 | 1.20 | 8.57 | 3.17 | 39.76 |
| Tecumseh | 0.60 | 0.53 | 1.25 | 1.59 | 2.65 | 3.96 | 8.02 | 0.22 | 5.36 | 1.57 | 7.83 | 2.57 | 36.15 |
| *Tekamah | 0.83 | 1.62 | 0.78 | 1.28 | 3.90 | 7.13 | 6.42 | 2.07 | 2.73 | 2.57 | 4.50 | 2.47 | 36.30 |
| Turlington | 0.83 | 1.08 | 1.42 | 1.96 | 3.64 | 3.63 | 5.68 | 0.36 | 6.52 | 1.37 | 7.38 | 3.53 | 37.40 |
| University Farm | 0.26 | 0.96 | 0.40 | 1.34 | 4.60 | 1.95 | 3.82 | 1.09 | 4.48 | 0.47 | 8.00 | 2.02 | 29.39 |
| *Valentine | 0.75 | 0.86 | 1.14 | 1.35 | 2.90 | 1.64 | 1.62 | 4.40 | 3.18 | 0.02 | 1.63 | 1.14 | 20.63 |
| Wahoo | 0.40 | 1.65 | 0.76 | 1.33 | 5.11 | 4.17 | 6.67 | 1.61 | 6.01 | 1.93 | 5.65 | 3.06 | 38.35 |
| Wakefield | 0.51 | 1.80 | 0.40 | 2.22 | 3.98 | 5.40 | 3.99 | 2.18 | 3.26 | 1.70 | 3.05 | 1.62 | 30.11 |
| Wallace | ..... | ..... | ..... | ..... | ..... | ..... | 3.25 | 1.23 | 1.77 | T. | 0.92 | ..... | ..... |
| Walthill | ..... | ..... | ..... | ..... | ..... | ..... | 1.27 | ..... | ..... | 1.30 | 2.85 | ..... | ..... |
| Watertown | 0.16 | 0.61 | 0.58 | 0.77 | 1.07 | 1.53 | 3.50 | 2.52 | 1.13 | 1.24 | 1.11 | 1.45 | 15.47 |
| Wauneta | 0.00 | 1.05 | 1.70 | 0.73 | 2.40 | 4.12 | 1.03 | 2.75 | 0.93 | 0.25 | 3.45 | 1.85 | 20.26 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Nebraska*—Continued. | | | | | | | | | | | | | |
| Weepingwater | 2.16 | 0.92 | 0.93 | 2.03 | 7.13 | 5.65 | 2.96 | 1.32 | 4.86 | 0.90 | 9.20 | 3.03 | 41.09 |
| Westpoint | 0.90 | 1.30 | 0.30 | 0.88 | 2.90 | 9.94 | 4.76 | 2.78 | 5.04 | 1.98 | 2.83 | 2.25 | 35.86 |
| Wilber | 0.30 | 1.00 | 1.30 | 0.83 | 6.63 | 3.35 | 8.85 | 0.49 | 3.82 | 0.30 | 7.72 | 3.10 | 37.69 |
| Wisner | 0.33 | 0.47 | 0.37 | 0.19 | 3.42 | 9.39 | 9.87 | 1.13 | 5.83 | 1.74 | 2.01 | 1.63 | 36.38 |
| Woodlawn | 0.66 | 1.06 | 0.53 | 1.28 | 5.68 | 4.54 | 4.71 | 1.38 | 3.71 | 0.46 | 7.77 | 2.66 | 34.44 |
| York | 0.42 | 1.00 | 0.83 | 0.81 | 2.86 | 3.35 | 9.12 | 2.98 | 3.36 | 1.82 | 3.84 | 3.13 | 33.52 |
| *Nevada.* | | | | | | | | | | | | | |
| Battle Mountain | 2.40 | 0.67 | 1.10 | 0.14 | T. | T. | T. | 0.75 | 0.07 | 0.20 | ..... | 0.83 | ..... |
| Beowawe | 1.28 | 0.90 | ..... | 0.00 | 0.00 | 0.00 | 0.00 | 0.95 | 0.41 | 0.60 | 3.02 | 1.30 | ..... |
| Buckskin | 3.02 | 0.78 | 0.80 | T. | T. | 0.04 | T. | T. | 0.35 | 1.10 | 0.49 | ..... | ..... |
| Carlin | 0.50 | 0.50 | 0.50 | 0.00 | 0.30 | 0.20 | 0.00 | 0.02 | 0.00 | 0.07 | 2.96 | 0.81 | 5.85 |
| Carson Dam | 1.21 | 0.19 | 0.44 | 0.00 | 0.00 | 0.32 | 0.00 | T. | 0.23 | 0.73 | 0.64 | 0.96 | 4.72 |
| Cherry Creek | 1.84 | 1.39 | 0.97 | 0.57 | 0.73 | 0.09 | 0.57 | 1.53 | 0.99 | 0.79 | 2.09 | 2.11 | 14.27 |
| Clover Valley | 8.67 | 1.55 | 0.90 | 0.38 | 0.68 | 0.18 | 0.93 | 0.50 | 1.13 | 0.25 | 5.75 | 3.04 | 23.96 |
| Cobre | 2.32 | 0.63 | 0.88 | 0.02 | 0.05 | 0.12 | 0.71 | 0.74 | 1.53 | 0.18 | 1.37 | ..... | ..... |
| Columbia | 0.38 | 1.34 | 0.71 | 0.03 | T. | 0.40 | 0.85 | 0.57 | 2.47 | 0.77 | 1.28 | 0.27 | 9.07 |
| Elko | ..... | 0.27 | 0.30 | 0.02 | 0.31 | 0.38 | 0.30 | 0.00 | 0.22 | 1.02 | ..... | ..... | ..... |
| Ely | 2.03 | 0.77 | 0.89 | 0.25 | 0.89 | T. | 0.16 | 2.43 | 2.46 | 0.20 | 1.20 | 1.87 | 13.15 |
| Eureka | 1.58 | 0.78 | 1.28 | 0.50 | 0.09 | T. | 0.38 | 1.64 | 0.68 | 1.29 | 3.53 | 0.71 | 12.46 |
| Fallon | 0.60 | 0.25 | 0.74 | 0.19 | 0.02 | 0.27 | T. | 0.06 | 0.21 | 0.70 | 0.71 | 1.30 | 5.05 |
| Fernley | 1.76 | 0.24 | 0.64 | T. | T. | 0.55 | 0.00 | ..... | 0.77 | 1.16 | 1.54 | T. | ..... |
| Fletcher | 2.96 | 0.79 | 0.81 | 0.00 | 0.00 | 0.11 | 0.00 | ..... | ..... | ..... | ..... | ..... | ..... |
| Gardnerville | 7.90 | 2.80 | 0.25 | 0.01 | T. | 0.01 | T. | T. | 0.01 | 0.07 | 3.82 | 4.80 | 19.67 |
| Glenbrook | ..... | ..... | ..... | 0.89 | 1.00 | 0.30 | T. | 0.00 | T. | 1.30 | 3.55 | 4.55 | ..... |
| Golconda | 2.30 | 0.70 | 0.20 | 0.00 | T. | 0.10 | 0.00 | 0.00 | 0.80 | 1.10 | 1.00 | 1.25 | 7.45 |
| Halleck | 2.60 | 0.77 | 0.90 | 0.00 | 0.08 | 0.10 | 0.01 | 0.04 | 0.62 | 0.10 | ..... | 0.90 | ..... |
| Humboldt | 0.12 | 0.11 | T. | T. | 0.01 | 0.00 | 0.00 | T. | 2.01 | ..... | ..... | ..... | ..... |
| Jean | 0.09 | ..... | 1.32 | 0.30 | 0.00 | 0.00 | 0.03 | 0.12 | 2.03 | 0.00 | 0.67 | 1.59 | ..... |
| Las Vegas | 0.40 | 1.12 | 0.71 | ..... | T. | 0.00 | 0.18 | 1.78 | 0.84 | 0.00 | 0.70 | 1.05 | ..... |
| Leetville | ..... | ..... | 0.50 | 0.15 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.60 | 0.75 | 1.45 | ..... |
| Lewers Ranch | 21.55 | 5.95 | 1.19 | 0.44 | 1.04 | 0.20 | ..... | 0.02 | 0.50 | 1.99 | 5.05 | 10.60 | ..... |
| Logan | 0.35 | 1.52 | 0.60 | 0.16 | T. | 0.00 | 0.26 | 1.86 | 0.58 | 0.00 | 1.04 | 1.80 | 8.17 |
| Lovelock | ..... | ..... | ..... | 0.00 | 0.13 | 1.95 | 0.04 | 0.04 | 0.47 | 0.11 | 0.66 | 0.28 | ..... |
| McAfees Ranch | ..... | ..... | ..... | 0.89 | 0.02 | 0.20 | ..... | ..... | 0.00 | 0.00 | 0.57 | 0.20 | ..... |
| Millett | 1.00 | 0.29 | 0.51 | 0.09 | 0.14 | 0.09 | 0.38 | 1.02 | 2.38 | 0.40 | 1.46 | 0.75 | 8.51 |
| Mina | 0.82 | 0.02 | 0.66 | 0.00 | 0.00 | 1.81 | 0.00 | T. | 0.02 | 1.22 | 0.42 | 1.20 | 6.17 |
| Mount Rose Ranch | ..... | ..... | ..... | ..... | ..... | ..... | T. | T. | ..... | 3.80 | 3.55 | 7.44 | ..... |
| Palmetto | 1.73 | 1.75 | 1.43 | 0.20 | 0.20 | 1.38 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Paradise Valley | ..... | 2.31 | 1.02 | 0.20 | 1.08 | 0.00 | ..... | ..... | 1.15 | 2.19 | ..... | 3.10 | ..... |
| Potts | 0.32 | 0.57 | 0.22 | 0.02 | T. | T. | 0.08 | 1.80 | 0.35 | 0.30 | 0.77 | 0.77 | 5.20 |
| Quinn River Ranch | 1.71 | 1.70 | 0.42 | 0.05 | 0.29 | 0.15 | 0.00 | 0.07 | 0.85 | 1.39 | 0.68 | 1.43 | 8.74 |
| *Reno | 4.75 | 0.91 | 0.27 | 0.18 | 0.19 | 0.25 | T. | 0.09 | 0.34 | 0.46 | 1.30 | 2.42 | 11.16 |
| San Jacinto | ..... | 0.80 | 0.40 | 0.07 | 1.51 | 0.78 | 0.28 | 1.29 | 0.93 | T. | 1.55 | 0.40 | ..... |
| Smith | 4.89 | 0.91 | 0.58 | T. | 0.43 | 0.44 | 0.00 | 0.11 | 0.16 | 1.05 | 0.65 | 1.88 | 11.10 |
| Soda Lake | ..... | ..... | ..... | T. | T. | 0.25 | 0.00 | 0.05 | 0.70 | 0.02 | 0.80 | 1.36 | ..... |
| Sweetwater | 3.97 | 0.88 | 1.41 | 0.45 | ..... | T. | 0.00 | 0.00 | 0.00 | 1.00 | 0.65 | 1.25 | ..... |
| Tecoma | 0.60 | 1.00 | 0.21 | T. | 0.26 | 0.04 | 0.31 | 1.39 | 1.29 | 0.03 | 2.10 | 0.85 | 8.08 |
| *Tonopah | 0.45 | 0.49 | 0.34 | 0.06 | 0.01 | 0.15 | 0.20 | 0.91 | 2.07 | 0.26 | 2.39 | 0.16 | 7.49 |
| Wabuska | 1.12 | 0.32 | 0.63 | T. | T. | 0.45 | T. | T. | 0.20 | 0.80 | 0.85 | 0.22 | 4.59 |
| Wells | 1.07 | 1.30 | 1.13 | 0.52 | 0.16 | 0.00 | 0.13 | 0.04 | 0.21 | 0.10 | 0.23 | 1.65 | 6.54 |
| Willow Point | 2.15 | 0.95 | 0.19 | 0.01 | 0.03 | 0.00 | 0.00 | 0.00 | 0.06 | 0.30 | 0.20 | 2.11 | 6.00 |
| *Winnemucca | 2.98 | 1.39 | 0.84 | 0.40 | 0.34 | 0.03 | 0.02 | 0.01 | 0.64 | 1.28 | 1.85 | 2.44 | 12.22 |
| *New Hampshire.* | | | | | | | | | | | | | |
| Alstead Center | 3.52 | 3.76 | 1.86 | 3.72 | 2.46 | 4.68 | 3.43 | 3.75 | 4.15 | 1.26 | 1.69 | 1.69 | 35.97 |
| Bethlehem | 5.05 | 2.86 | 2.68 | 3.19 | 4.58 | 2.78 | 3.13 | 3.24 | 7.97 | 1.84 | 2.47 | 1.14 | 41.53 |
| Brookline | 3.35 | 5.10 | 3.78 | 4.54 | 2.49 | 1.96 | 1.87 | 3.41 | 4.04 | 1.10 | 2.00 | 4.40 | 38.04 |
| *Concord | 2.98 | 3.25 | 2.56 | 3.04 | 1.35 | 3.12 | 2.14 | 2.85 | 4.15 | 0.82 | 2.12 | 2.56 | 30.94 |
| Durham | 1.93 | 3.23 | 1.34 | 3.45 | 1.66 | 2.46 | 1.73 | 2.83 | 4.34 | 1.89 | 2.47 | 2.91 | 30.24 |
| *Franklin | 4.66 | 4.58 | 3.30 | 3.25 | 2.05 | 3.54 | 3.08 | 1.86 | 3.52 | 0.88 | 2.65 | 2.69 | 36.06 |
| Grafton | 4.12 | 3.62 | 3.20 | 2.51 | 2.74 | 3.48 | 2.03 | 1.79 | 4.00 | 1.00 | 2.20 | 2.27 | 32.96 |
| Hanover | 4.14 | 3.87 | 2.07 | 2.47 | 3.15 | 3.00 | 0.58 | 3.38 | 3.45 | 1.15 | 2.05 | 1.90 | 31.21 |
| Keene | 4.39 | 3.83 | 2.15 | 3.81 | 1.92 | 2.63 | 1.48 | 4.20 | 4.12 | 1.15 | 1.60 | 2.64 | 33.92 |
| Nashua | 3.52 | 5.44 | 2.84 | 4.36 | 1.69 | 1.80 | 2.17 | 2.50 | 3.71 | 1.32 | 2.29 | 4.24 | 35.88 |
| Newton | 3.61 | 4.89 | 3.66 | 4.25 | 1.57 | 1.21 | 2.49 | 3.38 | 4.88 | 1.02 | 3.12 | 3.56 | 37.64 |
| *Plymouth | 3.98 | 4.90 | 2.82 | 2.98 | 3.04 | 2.86 | 2.69 | 1.60 | 3.70 | 1.62 | 2.49 | 1.58 | 34.26 |
| *New Jersey.* | | | | | | | | | | | | | |
| Asbury Park | 3.96 | 4.19 | 2.60 | 5.88 | 1.75 | 1.82 | 1.07 | 6.80 | 3.02 | 1.69 | 1.84 | 4.38 | 39.00 |
| *Atlantic City | 3.29 | 3.75 | 3.58 | 4.54 | 4.13 | 2.49 | 1.37 | 2.95 | 3.61 | 1.82 | 1.93 | 3.88 | 37.34 |
| Bayonne | 3.22 | 4.59 | 3.47 | 6.06 | 1.62 | 3.69 | 1.79 | 6.96 | 2.92 | 0.78 | 1.45 | 3.80 | 40.35 |
| Belvidere | 4.13 | 6.45 | 3.27 | 5.29 | 2.04 | 2.60 | 2.77 | 1.88 | 3.20 | 1.12 | 2.78 | 4.97 | 40.50 |
| Bergen Point | 3.94 | 5.11 | 3.75 | 7.04 | 1.85 | 3.71 | 1.79 | 8.13 | 3.19 | 1.07 | 1.77 | 4.80 | 46.15 |
| *Boonton | 3.33 | 6.25 | 3.29 | 6.97 | 1.95 | 2.71 | 3.09 | 6.22 | 3.44 | 0.99 | 2.48 | ..... | ..... |
| Bridgeton | 2.94 | 4.09 | 3.52 | 3.99 | 2.84 | 4.42 | 1.61 | 2.43 | 4.01 | 1.41 | 2.27 | 3.90 | 37.43 |
| Burlington | 3.05 | 5.19 | 3.29 | 4.87 | 2.35 | 2.67 | 1.83 | 2.44 | 3.07 | 1.11 | 3.55 | 5.47 | 38.89 |
| Canton | 2.18 | 3.80 | 3.08 | 4.29 | 2.39 | 5.54 | 2.11 | 2.59 | 3.97 | 1.22 | 2.07 | 4.23 | 37.47 |
| *Cape May | 2.79 | 3.56 | 3.34 | 4.76 | 4.84 | 3.48 | 1.39 | 4.33 | 2.62 | 1.61 | 2.06 | 4.55 | 39.33 |
| Cape May Courthouse | 2.59 | 4.04 | 3.81 | 5.15 | 3.49 | 5.70 | 1.61 | 3.16 | 2.98 | 1.72 | ..... | ..... | ..... |
| Charlotteburg | 3.41 | 6.67 | 4.06 | 8.90 | 2.56 | 4.24 | 2.42 | 5.14 | 2.88 | 1.10 | 1.50 | 4.98 | 47.86 |
| *Chatham | 3.49 | 6.26 | 3.80 | 6.08 | 2.23 | 4.24 | 1.68 | 5.87 | 3.27 | 1.28 | 2.43 | ..... | ..... |
| Clayton | 2.87 | 5.13 | 4.01 | 4.60 | 2.46 | 3.66 | 1.85 | 1.63 | 2.84 | 1.48 | 2.45 | 4.22 | 37.20 |
| College Farm | 3.17 | 5.40 | 3.79 | 7.25 | 2.01 | 2.23 | 3.45 | 9.07 | 3.73 | 1.22 | 1.89 | 5.47 | 48.68 |
| Culver's Lake | 3.09 | 5.24 | 2.31 | 5.90 | 3.77 | 3.78 | 2.40 | 3.16 | 4.16 | 1.21 | 1.84 | 3.55 | 40.41 |
| Dover | 3.75 | 6.36 | 3.90 | 7.14 | 2.55 | 3.88 | 1.81 | 4.63 | 3.31 | 1.11 | 2.77 | 5.35 | 46.62 |
| Elizabeth | 2.77 | 4.63 | 2.88 | 5.81 | 1.50 | 2.78 | 1.66 | 5.87 | 2.08 | 0.40 | 1.73 | 3.76 | 35.87 |
| Englewood | 3.55 | 4.32 | 3.57 | 6.14 | 1.76 | ..... | 1.98 | ..... | ..... | ..... | ..... | ..... | ..... |
| Flemington | 3.05 | 5.38 | 3.45 | 6.16 | 3.04 | 2.92 | 3.32 | 3.65 | 2.47 | 0.93 | 2.38 | 3.77 | 40.52 |
| Friesburg | 2.56 | 3.96 | 3.35 | 4.36 | 2.55 | 3.45 | 1.88 | 2.31 | 3.72 | 1.27 | 2.20 | 4.45 | 36.06 |
| Haddonfield | 2.98 | 4.32 | 3.54 | 4.14 | 2.46 | 2.50 | 2.27 | 1.97 | 2.68 | 1.25 | 2.80 | 4.95 | 35.86 |
| Hammonton | 3.09 | 4.60 | 3.50 | 5.60 | 2.24 | 3.03 | 2.94 | 2.29 | 3.73 | 1.51 | 3.33 | 5.38 | 41.27 |
| Hightstown | 3.18 | 5.33 | 4.00 | 6.07 | 2.13 | 2.30 | 2.62 | 5.36 | 3.28 | 1.17 | 3.34 | 4.10 | 42.88 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *New Jersey*—Continued. | | | | | | | | | | | | | |
| Imlaystown | 2.92 | 4.78 | 3.62 | 6.99 | 1.87 | 2.20 | ..... | ..... | ..... | 1.27 | 2.69 | 5.25 | ..... |
| Indian Mills | 3.66 | 5.35 | 3.45 | 5.28 | 1.94 | 2.08 | 2.95 | 2.86 | 3.20 | 1.52 | 3.45 | 4.93 | 40.67 |
| Jersey City | 3.74 | 4.50 | 3.32 | 6.39 | 1.46 | 4.04 | 2.01 | 7.18 | 2.98 | 0.71 | 1.71 | 4.60 | 42.64 |
| Lakewood | ..... | ..... | 3.97 | 5.62 | 2.33 | 1.78 | 1.44 | 6.92 | ..... | ..... | ..... | ..... | ..... |
| Lambertville | 2.86 | 4.98 | 3.72 | 5.33 | 3.01 | 3.24 | 3.28 | 4.17 | 2.79 | 1.04 | 3.54 | 4.60 | 42.56 |
| Layton | 2.41 | 5.52 | 3.14 | 4.96 | 2.99 | 2.80 | 1.52 | 1.70 | 3.49 | 1.17 | 2.05 | 3.81 | 35.56 |
| *Little Falls | 3.21 | 5.93 | 4.03 | 6.90 | 1.67 | 3.04 | 1.63 | 5.47 | 3.77 | 0.86 | 2.44 | 4.69 | 43.64 |
| Long Branch | 3.59 | 4.59 | 4.26 | 6.24 | 2.37 | 2.12 | 1.03 | 8.17 | 3.11 | ..... | 1.70 | 4.78 | ..... |
| *Mahwah | 3.63 | 5.91 | 4.04 | 8.08 | 1.98 | 5.58 | 2.14 | 5.08 | 3.60 | 0.71 | 2.17 | ..... | ..... |
| Moorestown | 2.91 | 4.96 | 3.33 | 5.45 | 2.25 | 2.34 | 1.72 | 2.28 | 2.86 | 1.06 | 3.44 | 5.02 | 37.56 |
| Newark | 2.93 | 6.28 | 2.89 | 6.68 | 1.84 | 3.92 | 1.57 | 6.57 | 2.16 | 0.55 | 1.35 | 3.78 | 40.52 |
| New Brunswick | ..... | 4.50 | 3.45 | ..... | 1.36 | 2.60 | 4.03 | 6.00 | 3.67 | 1.14 | 2.50 | ..... | ..... |
| Newton | 3.84 | 5.75 | 2.58 | 7.23 | 2.18 | 3.31 | 2.14 | 3.45 | 2.84 | 1.24 | 2.58 | 3.99 | 41.13 |
| Northfield | 3.06 | 3.55 | 3.61 | 4.86 | 3.15 | 4.39 | 1.50 | 3.60 | 4.09 | 1.81 | 2.07 | 4.14 | 39.83 |
| Oceanic | 3.63 | 4.57 | 4.05 | 5.71 | 1.75 | 4.20 | 1.76 | 12.94 | 3.73 | 1.76 | 1.62 | 4.42 | 50.14 |
| Paterson | 3.18 | 5.21 | 3.58 | 6.73 | 1.27 | 2.58 | 2.07 | 5.18 | 3.18 | 0.81 | 2.14 | 4.73 | 40.66 |
| *Phillipsburg | 3.77 | 5.61 | 3.23 | 5.47 | 2.41 | 3.75 | 2.86 | 1.41 | 3.03 | 1.10 | 3.08 | 4.18 | 39.90 |
| Plainfield | 3.38 | 5.60 | 3.81 | 7.23 | 2.09 | 3.64 | 1.39 | 6.37 | 3.50 | 1.10 | 2.48 | 5.51 | 46.10 |
| Pleasantville | ..... | ..... | 2.96 | 5.35 | 2.69 | 3.22 | 1.54 | 3.29 | 4.10 | 1.63 | 2.06 | ..... | ..... |
| *Pompton Plains | 3.61 | 5.53 | 3.75 | 6.79 | 2.25 | 3.63 | 2.98 | 5.42 | 4.50 | 0.89 | 2.93 | ..... | ..... |
| Port Norris | 2.56 | 4.16 | 2.43 | 5.81 | 1.92 | 4.72 | ..... | ..... | 3.09 | 1.42 | ..... | ..... | ..... |
| Rancocas | 2.25 | 5.14 | 3.14 | 5.58 | 2.36 | 2.23 | 1.68 | 2.19 | 3.23 | 0.99 | 3.26 | 5.06 | 37.11 |
| Rivervale | 3.40 | 6.78 | 4.25 | 7.35 | 0.79 | 1.26 | 2.21 | 5.39 | ..... | 0.97 | ..... | 3.85 | ..... |
| Runyon | 3.07 | 4.00 | 3.03 | 6.56 | 1.46 | 1.71 | 2.94 | 8.17 | 2.81 | 0.74 | 1.32 | 4.16 | 39.97 |
| Somerville | 3.41 | 4.88 | 3.71 | 6.16 | 1.98 | 3.15 | 2.61 | 4.78 | 3.22 | 1.04 | 2.58 | 4.25 | 41.77 |
| South Orange | 2.62 | 5.52 | 3.41 | 6.95 | 1.35 | 3.02 | 2.11 | 6.45 | 2.63 | 0.62 | 1.76 | 4.02 | 40.46 |
| Sussex | 3.76 | 5.23 | 2.80 | 6.35 | 2.66 | 4.12 | 1.70 | 3.36 | 3.49 | 0.86 | 1.97 | 3.85 | 40.15 |
| *Trenton | 3.28 | 4.61 | 4.66 | 6.66 | 2.57 | 3.71 | 2.52 | 4.98 | 3.54 | 1.30 | 4.33 | 3.90 | 46.06 |
| Tuckerton | 3.92 | 4.40 | 4.37 | 5.17 | 3.92 | 3.80 | 2.44 | 3.20 | 4.58 | 1.48 | 1.61 | 4.54 | 43.43 |
| Vineland | 2.53 | 4.29 | 3.16 | 3.84 | 2.69 | 3.06 | 2.00 | 2.07 | 3.84 | 1.39 | 2.28 | 4.41 | 35.56 |
| Woodbine | 3.48 | ..... | 3.33 | ..... | ..... | 4.56 | 2.46 | 2.54 | 4.56 | ..... | 2.86 | ..... | ..... |
| *New Mexico.* | | | | | | | | | | | | | |
| Abbott | ..... | ..... | ..... | ..... | ..... | ..... | 1.89 | 3.08 | 3.35 | 1.12 | 1.28 | 0.46 | ..... |
| Agricultural College | 0.01 | 0.09 | 0.89 | 0.00 | T. | 0.55 | 0.71 | 1.11 | 0.92 | 0.18 | 0.00 | 0.48 | 4.94 |
| Alamogordo (near) | 0.95 | T. | 1.00 | 0.00 | 0.00 | 0.17 | 0.62 | 1.88 | 1.14 | 0.13 | 0.02 | 0.94 | 6.85 |
| Alamogordo | ..... | ..... | ..... | ..... | ..... | ..... | 1.22 | 1.75 | 1.69 | 0.04 | 0.02 | 0.42 | ..... |
| Albert | 0.00 | 0.00 | 1.44 | 0.75 | 2.30 | 1.51 | 0.64 | 3.64 | 4.86 | 2.16 | 2.21 | 0.52 | 20.03 |
| *Albuquerque | 0.37 | 0.17 | 0.11 | 0.12 | 0.16 | 0.12 | ..... | ..... | 0.52 | 0.00 | 0.25 | 0.19 | ..... |
| Alto | T. | 2.21 | 3.02 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Amizett | ..... | ..... | ..... | ..... | ..... | ..... | 1.78 | 6.05 | 2.84 | 1.15 | 1.85 | 3.21 | ..... |
| Ancho | ..... | ..... | ..... | ..... | ..... | ..... | 3.00 | 0.80 | 0.70 | 0.19 | 0.01 | 1.37 | ..... |
| Arch (near) | 0.00 | 0.00 | 0.90 | 0.00 | 0.06 | 2.77 | ..... | ..... | ..... | 0.00 | 1.55 | 1.00 | ..... |
| Aspen Grove | ..... | ..... | ..... | ..... | ..... | ..... | 1.69 | 2.30 | 1.87 | 0.68 | 0.79 | 1.48 | ..... |
| Aurora | ..... | ..... | ..... | ..... | ..... | ..... | 1.77 | 5.32 | 3.81 | 2.11 | 1.35 | 1.23 | ..... |
| Bateman's Ranch | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.97 | 0.45 | 1.00 | ..... |
| Bell Ranch | T. | 0.16 | 0.72 | 0.34 | 2.44 | 1.64 | 4.01 | 0.99 | 3.20 | 1.93 | 0.51 | 0.15 | 16.09 |
| Black Lake | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 4.58 | 2.37 | 1.19 | 0.72 | 1.11 | ..... |
| Blackrock | ..... | 0.57 | 0.32 | T. | T. | T. | 0.78 | 2.83 | 1.69 | 0.00 | 0.38 | 0.77 | ..... |
| Bloomfield | 0.76 | 0.42 | 1.21 | 0.54 | 0.33 | 0.22 | 1.71 | 4.44 | 1.25 | 0.18 | 0.36 | 0.67 | 12.09 |
| Bluewater | 0.09 | 0.09 | 3.60 | T. | 0.16 | 0.00 | 1.63 | 4.09 | ..... | 0.00 | 0.15 | 0.80 | ..... |
| Bluewater Reservoir | 0.11 | 0.26 | 0.61 | T. | T. | T. | 1.75 | 3.73 | 1.96 | T. | 0.42 | 0.52 | 9.36 |
| Bosz | ..... | ..... | ..... | 0.00 | 0.02 | 4.55 | 1.57 | 1.60 | 0.27 | 0.21 | 1.28 | 0.32 | ..... |
| Cabeza | ..... | ..... | ..... | ..... | ..... | ..... | 0.87 | 2.26 | 3.45 | 2.02 | 1.05 | 0.90 | ..... |
| Cambray | T. | 0.10 | 1.00 | 0.00 | 0.00 | 2.05 | 1.40 | 2.60 | 1.25 | 0.00 | T. | 0.60 | 9.00 |
| Campana | ..... | ..... | ..... | ..... | ..... | ..... | 1.97 | 1.41 | 2.69 | 3.09 | 1.64 | 0.86 | ..... |
| Capitan | ..... | ..... | ..... | ..... | ..... | ..... | 2.27 | 2.34 | 2.49 | 0.82 | T. | 0.43 | ..... |
| *Carlsbad | 0.05 | T. | 0.04 | 0.00 | 0.02 | 0.57 | 3.66 | 1.67 | 1.00 | 0.19 | 0.38 | 0.50 | 8.08 |
| Carrizozo (1) | 0.40 | 0.51 | 1.37 | 0.00 | T. | 1.01 | 2.58 | 2.67 | 0.26 | 0.10 | 0.00 | 0.75 | 9.65 |
| Carrizozo (2) | ..... | ..... | ..... | ..... | ..... | ..... | 3.68 | 2.62 | 0.23 | 0.10 | 0.00 | 0.75 | ..... |
| Chacon | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 7.53 | 1.06 | 1.13 | 1.08 | 1.09 | ..... |
| Chama | 1.73 | 2.53 | 0.45 | 1.66 | 1.05 | 0.32 | 2.33 | 3.22 | 1.83 | 1.55 | 1.32 | 3.32 | 21.31 |
| Cimarron (near) | 0.22 | 0.08 | 0.78 | 0.62 | 1.33 | 0.45 | 1.70 | 2.24 | 3.74 | 0.49 | 1.01 | 1.14 | 13.80 |
| Clayton | T. | T. | 1.85 | 1.33 | 3.52 | 2.62 | 1.90 | 1.92 | 2.06 | 1.11 | 2.04 | 0.70 | 19.05 |
| Cliff (near) | 0.00 | 1.00 | 1.22 | 0.00 | 0.00 | T. | 2.13 | 2.32 | 1.82 | 0.33 | 0.20 | 0.50 | 9.52 |
| Cloudcroft | 1.10 | 2.40 | 2.10 | 0.00 | 0.00 | 1.30 | 4.69 | 3.34 | 2.77 | 0.52 | 0.20 | 0.55 | 18.97 |
| Columbus | ..... | ..... | ..... | ..... | ..... | ..... | 2.15 | 2.57 | 0.32 | 0.04 | T. | 1.06 | ..... |
| Corona | ..... | ..... | ..... | ..... | ..... | ..... | 2.93 | 3.35 | 1.63 | 1.29 | 0.25 | 1.08 | ..... |
| Coyote | ..... | ..... | ..... | ..... | ..... | ..... | 1.90 | 2.99 | 0.34 | 0.33 | 0.10 | 1.62 | ..... |
| Cuervo | ..... | ..... | ..... | ..... | ..... | ..... | 2.03 | 1.54 | 1.24 | 0.86 | 0.30 | 0.06 | ..... |
| Cundiyo | ..... | ..... | ..... | ..... | 0.50 | 0.34 | 0.80 | 3.24 | 0.84 | 0.70 | 0.32 | 0.88 | ..... |
| Dawson | ..... | ..... | ..... | ..... | ..... | ..... | 1.75 | 5.93 | 2.30 | 1.00 | 1.20 | 0.84 | ..... |
| Deming | T. | 1.03 | 0.51 | 0.00 | 0.00 | 0.02 | 0.40 | 1.58 | 0.88 | 0.89 | 0.00 | 0.70 | 6.01 |
| Demonstration Farm | 0.03 | 0.32 | 0.53 | 0.80 | 0.21 | 0.76 | 2.72 | 3.70 | 3.25 | 0.70 | 0.18 | 0.16 | 13.36 |
| Dorsey (near) | 0.18 | ..... | ..... | 0.62 | 4.31 | 5.21 | 3.70 | 5.05 | ..... | ..... | ..... | ..... | ..... |
| Duke | ..... | ..... | ..... | 0.21 | ..... | 0.10 | 2.50 | 4.55 | 0.55 | 0.62 | ..... | ..... | ..... |
| Duran (1) | 0.19 | 0.27 | 2.24 | 0.02 | 0.36 | 0.99 | 0.64 | 2.81 | 0.50 | 1.12 | 0.15 | 0.40 | 9.69 |
| Duran (2) | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.77 | 0.50 | 0.29 | 0.09 | 0.40 | ..... |
| Elizabethtown | 0.72 | 0.95 | 0.32 | 1.17 | 1.14 | 0.67 | 2.98 | 7.58 | 0.99 | 1.33 | 1.95 | 1.07 | 20.87 |
| Elk (near) | 0.00 | 0.03 | 0.85 | 0.00 | T. | 1.45 | 5.84 | 4.58 | 1.13 | 1.64 | 0.15 | 0.50 | 16.18 |
| Escondida | ..... | ..... | ..... | ..... | ..... | ..... | 1.42 | 0.85 | 0.71 | 0.19 | T. | 0.30 | ..... |
| Espanola | 0.33 | 0.22 | 1.63 | 0.58 | 0.49 | T. | 0.48 | ..... | 2.51 | 0.84 | 0.09 | 0.37 | ..... |
| *Estancia | ..... | ..... | ..... | ..... | ..... | 1.00 | 0.99 | 1.30 | 1.25 | 1.36 | 0.10 | 0.78 | ..... |
| Folsom | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.17 | ..... |
| Fort Bayard | 0.33 | 0.86 | 1.05 | 0.00 | 0.00 | 0.94 | 2.05 | 3.65 | 1.55 | 0.03 | 0.07 | 0.90 | 11.43 |
| Fort Stanton | 0.18 | 0.20 | 2.02 | 0.00 | 0.20 | 0.67 | 3.28 | 3.54 | 0.59 | 0.82 | T. | 0.25 | 11.75 |
| *Fort Sumner | ..... | ..... | ..... | ..... | 0.16 | 1.62 | 1.06 | 1.70 | 0.48 | 0.10 | ..... | 0.12 | ..... |
| Fort Union | 0.04 | 0.26 | 1.11 | 0.40 | 1.17 | 2.63 | 2.88 | 3.78 | 3.37 | 1.45 | 0.42 | 0.43 | 17.94 |
| Fort Wingate | 0.32 | 0.70 | 0.29 | 0.23 | 0.08 | 0.02 | 2.40 | 5.40 | 4.36 | T. | 0.13 | 0.87 | 15.00 |
| Frisco | 0.15 | 1.40 | 1.70 | 0.10 | 0.00 | T. | 2.20 | 4.27 | 2.08 | ..... | ..... | ..... | ..... |
| Fruitland | 0.31 | 0.42 | 0.57 | ..... | T. | T. | 0.31 | 2.25 | 0.95 | 0.02 | 0.05 | 0.94 | ..... |
| Gage | 0.04 | 0.15 | 1.40 | 0.00 | 0.00 | 2.32 | 0.90 | 1.97 | 0.45 | 0.00 | 0.00 | 0.45 | 7.68 |
| Gallinas | ..... | ..... | ..... | ..... | ..... | ..... | 1.76 | 2.47 | 0.56 | 0.97 | 0.16 | 0.60 | ..... |
| Gallinas Planting Station | 0.69 | 0.61 | 1.54 | 0.55 | 0.66 | 1.71 | 5.11 | 6.98 | 2.86 | 1.07 | 0.97 | 0.66 | 23.41 |
| Hachita | ..... | ..... | ..... | ..... | ..... | ..... | 1.91 | 4.77 | 0.26 | 0.53 | 0.00 | 0.91 | ..... |
| Harvey's Upper Ranch | ..... | 0.75 | 2.86 | 0.83 | 0.89 | 2.06 | 5.41 | 10.11 | 3.04 | 1.88 | 1.79 | 1.67 | ..... |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *New Mexico*—Continued. | | | | | | | | | | | | | |
| Hayden | | | | | 1.82 | 1.24 | 1.86 | 3.43 | 2.53 | 1.51 | 1.90 | 0.68 | ..... |
| Hermanas | | | | | | | 0.65 | 2.72 | 0.27 | 0.10 | 0.00 | 1.00 | ..... |
| Hillsboro | 0.00 | 0.02 | 0.90 | 0.00 | T. | 0.16 | 1.26 | 2.39 | 1.09 | 0.57 | 0.00 | 0.74 | 7.13 |
| Hodges | | | | | 1.00 | 0.65 | 2.63 | 4.18 | 1.94 | 0.51 | 0.53 | 0.88 | ..... |
| Hondo Reservoir | 0.00 | 0.01 | 1.07 | 0.00 | 0.13 | 0.48 | 2.62 | 2.36 | 0.30 | 0.59 | 0.04 | 0.30 | 7.90 |
| Hopewell | | | | | | | 0.83 | 6.62 | 2.42 | 0.67 | 0.98 | 2.08 | ..... |
| Johnson's Park | | | | | | | | | | 0.38 | 0.82 | 0.71 | ..... |
| Laguna | 0.13 | T. | 3.10 | 0.00 | T. | 0.10 | 1.45 | 3.25 | 1.40 | T. | 0.45 | 0.72 | 10.60 |
| Lagunita | 0.00 | T. | 2.04 | 0.02 | 0.05 | 0.88 | 0.65 | 2.25 | 0.56 | 0.94 | 0.22 | 0.29 | 7.90 |
| La Huerta | 0.01 | T. | 0.07 | 0.00 | 0.04 | 0.38 | 3.67 | 1.84 | 1.07 | 0.15 | 0.37 | 0.46 | 8.06 |
| Lake Alice | | | 1.76 | 1.12 | 3.22 | 1.33 | 1.76 | 4.46 | 4.03 | 1.07 | 1.93 | 1.25 | ..... |
| Lake Valley | 0.12 | 0.19 | 0.56 | 0.00 | 0.03 | 0.90 | 1.42 | 2.86 | 1.02 | 0.17 | 0.06 | 0.60 | 7.93 |
| *Las Vegas | 0.17 | 0.49 | 1.00 | 0.50 | 0.51 | 0.51 | 1.53 | 5.99 | 3.91 | 0.76 | 0.19 | 0.44 | 16.00 |
| *Logan | 0.08 | 0.05 | 1.88 | 0.25 | 1.32 | 3.42 | 2.10 | 1.37 | 2.43 | 2.85 | 1.83 | 0.28 | 17.86 |
| Lordsburg | T. | 0.20 | 1.30 | 0.00 | 0.00 | 0.05 | 4.22 | 2.36 | 0.95 | 0.70 | 0.00 | 0.40 | 10.18 |
| Los Alamos | T. | 0.20 | 0.57 | 0.50 | 0.61 | 0.98 | 2.64 | 3.46 | 2.58 | 1.04 | 0.18 | 0.24 | 13.00 |
| Los Lunas (near) | 0.22 | T. | 0.50 | T. | T. | 0.12 | T. | 0.44 | 2.00 | 0.05 | T. | 0.92 | 4.25 |
| Los Tanos | | | | | | | 1.95 | 1.59 | 0.74 | 0.89 | 0.25 | 0.36 | ..... |
| Luna (near) | 0.07 | 1.63 | 1.60 | ..... | T. | 0.14 | 1.61 | 3.49 | 2.18 | 0.03 | 0.30 | 1.67 | ..... |
| Magdalena | 0.10 | 0.20 | 1.81 | T. | T. | 0.63 | 3.58 | 3.57 | 1.48 | T. | 0.30 | 1.18 | 12.85 |
| Malaga | | | | | | | | | | | 0.78 | 1.60 | ..... |
| Manuelito | 1.83 | 1.55 | 1.18 | 0.05 | 0.03 | 0.00 | 2.77 | 7.55 | 1.81 | 0.00 | 0.12 | 1.18 | 18.07 |
| Maxwell City | 0.18 | 0.03 | 1.01 | 0.70 | 3.09 | 1.93 | 3.97 | 3.43 | 3.55 | 0.68 | 0.50 | 0.49 | 19.47 |
| Melrose | T. | 0.00 | 1.29 | T. | 1.04 | 1.34 | 1.47 | 2.63 | 2.11 | T. | 1.10 | 0.34 | 11.32 |
| Miami Ranch | 0.10 | 0.15 | 1.83 | 0.49 | 0.99 | 1.83 | 3.77 | 4.39 | 4.23 | 0.96 | 0.99 | 0.85 | 20.58 |
| Mimbres | 0.40 | 0.91 | 1.25 | 0.00 | 0.00 | 0.51 | 5.13 | 3.33 | 1.61 | 0.55 | 0.09 | 0.78 | 14.56 |
| Mineral Hill | 0.30 | 0.45 | 1.24 | 0.45 | 0.13 | 0.73 | 3.57 | 4.92 | 2.43 | 1.40 | 0.50 | 0.71 | 16.83 |
| Montoya | | | | | | | 1.16 | 1.72 | 2.13 | 1.00 | 0.40 | 0.38 | ..... |
| Monument | 0.08 | T. | T. | 0.00 | | | | | | | | | ..... |
| Mountainair | 0.18 | 0.80 | 4.92 | 0.22 | 0.18 | 0.06 | 2.31 | 2.53 | 1.90 | 1.61 | T. | 1.79 | 16.50 |
| Nara Visa | T. | 0.32 | 1.50 | 0.07 | 1.82 | 3.13 | 2.59 | 0.73 | 2.19 | 2.86 | 1.65 | 1.00 | 17.86 |
| Newnan | | | | | | | 0.74 | 0.69 | 1.69 | 0.60 | T. | 0.63 | ..... |
| Noria | | | | | | | 1.61 | 0.29 | 0.09 | T. | 0.08 | 0.24 | ..... |
| Orogrande | | | | | | | 0.17 | 0.12 | 0.08 | 0.04 | 0.00 | 0.82 | ..... |
| Oscuro (1) | 0.10 | 0.21 | 1.03 | 0.00 | 0.05 | 0.52 | 2.11 | 1.35 | 0.47 | 0.15 | 0.01 | 0.28 | 6.28 |
| Oscuro (2) | | | | | | | 1.94 | 1.34 | 0.45 | 0.12 | 0.00 | 0.28 | ..... |
| Otis | T. | T. | 0.04 | 0.00 | 0.05 | T. | 3.21 | 1.16 | 0.73 | 0.37 | 0.73 | 0.61 | 6.90 |
| Otto | 0.45 | 0.25 | 0.40 | 0.36 | 0.29 | 0.37 | 1.27 | 2.00 | 2.47 | 0.54 | 0.20 | 0.25 | 8.85 |
| Pastura | | | | | | | 0.34 | 2.75 | 0.12 | 0.95 | 0.00 | 0.45 | ..... |
| Pratt | | | | | | | 0.56 | 4.73 | 1.53 | 0.00 | T. | 0.18 | ..... |
| *Raton | 0.10 | 0.15 | 0.95 | 0.75 | 3.00 | 1.07 | 2.13 | 5.11 | 6.30 | 1.14 | 1.27 | 1.35 | 23.32 |
| Red River Canyon | | | | | | | | | 1.00 | 0.90 | 1.90 | 2.26 | ..... |
| Redrock | 0.46 | 1.38 | | 0.00 | 0.00 | 0.05 | 3.37 | 3.97 | 1.52 | 0.07 | 0.10 | 0.62 | ..... |
| *Rincon | T. | T. | 0.41 | 0.00 | T. | 1.04 | 1.27 | 1.75 | 0.60 | T. | 0.00 | 0.36 | 5.43 |
| Rio Grande Dam | T. | 0.03 | 0.46 | 0.00 | T. | 0.02 | 2.70 | 1.50 | 1.13 | 0.62 | T. | 0.22 | 6.68 |
| Rociada | 0.33 | 1.14 | 3.06 | 1.17 | 1.05 | 0.98 | 4.07 | 6.42 | 2.06 | 1.39 | 1.28 | 1.03 | 23.98 |
| Rodeo | | | | | | | 3.28 | 2.59 | 1.20 | T. | 0.08 | 0.75 | ..... |
| Rosa | 0.37 | 0.34 | | | 0.03 | 0.00 | 2.73 | | | 0.00 | 0.14 | 0.46 | ..... |
| Rosedale | 0.15 | 0.53 | 2.54 | 0.03 | 0.01 | 0.53 | 1.48 | 4.23 | 1.23 | 0.31 | 0.23 | 1.29 | 12.56 |
| *Roswell | 0.02 | 0.02 | 0.97 | 0.00 | 0.05 | 1.05 | 1.94 | 2.01 | 0.40 | 0.63 | 0.29 | 0.31 | 7.69 |
| Roy | | | | | | | 1.43 | 1.08 | 5.26 | 1.89 | 1.96 | 0.41 | ..... |
| San Jon | T. | T. | 0.92 | 0.20 | 1.21 | 1.54 | 1.67 | 2.12 | 1.94 | 2.06 | 1.13 | 0.29 | 13.08 |
| *San Marcial | T. | 0.00 | 0.81 | 0.00 | 0.00 | T. | | 1.83 | 0.80 | 0.25 | 0.00 | 0.32 | ..... |
| San Rafael | 0.24 | 0.20 | 2.90 | 0.00 | 0.25 | 0.89 | 2.64 | 10.03 | 2.14 | 0.38 | 0.50 | 1.25 | 21.40 |
| *Santa Fe | 0.79 | 0.56 | 0.73 | 0.30 | 0.38 | 0.20 | 2.39 | 2.02 | 2.70 | 0.62 | 1.02 | 0.55 | 12.26 |
| *Santa Rosa (1) | 0.15 | 0.11 | 1.43 | 0.07 | 0.38 | 0.15 | 3.90 | 2.48 | 0.60 | 1.04 | 0.22 | 0.24 | 10.77 |
| Santa Rosa (2) | | | | | | | 2.53 | 3.33 | 0.75 | 0.60 | 0.20 | 0.50 | ..... |
| Solano (1) | | | | 0.60 | 1.63 | 2.06 | 1.46 | 1.57 | 4.15 | 2.36 | 2.33 | 0.42 | ..... |
| Solano (2) | | | | | | | 1.46 | 1.68 | 4.06 | 2.17 | 1.68 | 0.51 | ..... |
| Socorro | 0.15 | 0.26 | 1.52 | 0.00 | 0.08 | 0.18 | 1.73 | 1.31 | 1.09 | 0.75 | 0.00 | 1.04 | 8.11 |
| *Springer | 0.06 | T. | 1.09 | 0.37 | 1.85 | | | 1.70 | 2.50 | 1.00 | 1.13 | 0.72 | ..... |
| Stanley | | | 0.13 | 0.20 | 0.28 | 0.53 | 1.45 | 2.48 | 1.51 | 0.53 | 0.24 | 0.29 | ..... |
| Strauss | 0.00 | 0.10 | 0.30 | 0.00 | 0.00 | 0.50 | 0.35 | 0.66 | 1.47 | 0.17 | T. | 1.27 | 4.82 |
| Swastika Ranch | | | | | | | | | 3.88 | 0.25 | 0.53 | 1.09 | ..... |
| Taos | 1.06 | 1.04 | 0.46 | 1.55 | | | | | 0.90 | 1.40 | 0.71 | 0.69 | ..... |
| Taos Canyon | | | | | | | | 5.31 | 2.48 | 1.56 | 1.32 | 1.65 | ..... |
| Taylor | | | | | | | 1.94 | 5.51 | 3.65 | 2.53 | 1.30 | 0.83 | ..... |
| Tecolote | | | | | | | 3.35 | 2.42 | 0.53 | 1.15 | 0.11 | 0.25 | ..... |
| Three Rivers | | | | | | | 1.32 | 0.73 | 0.44 | 0.11 | T. | 0.18 | ..... |
| Torrance | | | | | | | 3.14 | 3.85 | 0.80 | 0.80 | 0.20 | 0.85 | ..... |
| Trementina | T. | 0.04 | 0.66 | 0.25 | 1.30 | 0.63 | 2.54 | 2.57 | 5.67 | 1.58 | 0.35 | 0.45 | 16.04 |
| Tres Piedras | 1.30 | 0.95 | 0.10 | 0.96 | 0.90 | 0.60 | 1.75 | 1.85 | 1.10 | 0.65 | 0.95 | 1.75 | 12.86 |
| Truchas | | | | | 0.42 | 0.55 | 0.95 | 1.99 | 1.45 | 0.60 | 0.35 | 1.30 | ..... |
| *Tucumcari (1) | T. | T. | 1.72 | 0.48 | 0.97 | 2.42 | 2.03 | 1.04 | 0.85 | 1.90 | 1.59 | 0.20 | 13.20 |
| Tucumcari (2) | | | | | | | 1.90 | 1.12 | 0.77 | 1.69 | 2.47 | 0.41 | ..... |
| Tularosa (1) | 0.12 | 0.24 | 1.03 | T. | T. | 0.22 | 1.85 | 0.99 | 1.22 | 0.09 | 0.03 | 0.19 | 5.98 |
| Tularosa (2) | | | | | | | 0.80 | 1.01 | 1.02 | T. | 0.00 | 0.48 | ..... |
| Valley | 0.10 | T. | 0.73 | 0.67 | 1.53 | | | | | | 1.09 | 0.40 | ..... |
| Vaughn | | | | | | | 2.54 | 2.19 | 1.14 | 1.68 | 0.20 | | ..... |
| Vermijo Park | 1.01 | 0.15 | 0.49 | 0.96 | 2.38 | 1.02 | 4.53 | 5.98 | 2.20 | 1.07 | 1.42 | 0.45 | 21.66 |
| Wagon Mound | T. | 0.05 | 1.66 | 0.46 | 1.47 | 0.88 | 3.48 | 5.11 | 2.31 | 1.69 | 1.09 | 0.71 | 18.91 |
| Winsor's | 1.26 | 1.85 | 0.86 | 1.12 | 0.27 | 2.07 | 5.16 | 5.80 | 1.60 | 1.45 | 0.88 | 1.73 | 24.05 |
| *New York.* | | | | | | | | | | | | | |
| Adams Center | 7.38 | 5.28 | 4.92 | 5.56 | 5.83 | 1.92 | 5.14 | 2.36 | 4.38 | 5.87 | 4.57 | 9.53 | 62.74 |
| Addison | 2.71 | 2.79 | 1.92 | 4.24 | 2.78 | 4.95 | 1.04 | 2.40 | 3.20 | 1.94 | 1.07 | 1.60 | 30.64 |
| *Albany | 3.00 | 4.00 | 2.11 | 2.12 | 2.72 | 2.74 | 1.74 | 2.42 | 2.88 | 0.83 | 1.04 | 2.36 | 27.96 |
| Allegany | 2.38 | 4.41 | 1.48 | 3.47 | 2.38 | 4.11 | 3.62 | 2.48 | 3.73 | 3.91 | 1.47 | 2.09 | 35.51 |
| Amsterdam | 3.89 | 5.20 | 2.28 | 3.03 | 4.14 | 3.58 | 3.00 | 2.54 | 4.19 | 0.90 | 2.48 | 2.00 | 37.23 |
| Angelica | 2.54 | 3.42 | 1.93 | 4.16 | 2.82 | 3.35 | 1.37 | 2.20 | 1.92 | 2.52 | 1.36 | 1.19 | 28.78 |
| Appleton | 1.87 | 2.46 | 2.06 | 2.63 | 3.64 | 0.88 | 3.21 | 1.89 | 2.61 | 2.81 | 2.90 | 2.07 | 29.03 |
| Athens | 3.50 | 5.04 | 2.04 | 3.88 | 3.31 | 3.60 | 1.90 | 4.08 | 2.98 | 0.90 | 1.74 | 2.62 | 35.59 |
| Auburn | 3.27 | 1.96 | 2.35 | 3.68 | 5.60 | 2.21 | 2.61 | 1.50 | 2.85 | 1.88 | 1.57 | 2.03 | 31.51 |
| Avon | 2.61 | 2.06 | 1.34 | 1.83 | 3.38 | 1.59 | 3.52 | 0.57 | 1.89 | 1.91 | 1.61 | 1.48 | 23.79 |
| Ballston Lake | 4.40 | 4.22 | 2.97 | 2.35 | 4.11 | 2.52 | 3.16 | 2.74 | 4.00 | 0.41 | 2.17 | 2.60 | 35.65 |
| Bedford | 3.59 | 4.58 | 4.11 | 5.11 | 1.88 | 2.89 | 2.78 | 6.21 | 3.52 | 1.15 | 2.38 | 3.86 | 42.06 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *New York*—Continued. | | | | | | | | | | | | | |
| Benson Mines | 3.67 | 3.62 | 3.25 | 3.35 | 4.26 | 1.22 | 4.35 | 2.24 | 3.02 | 1.25 | ..... | ..... | ..... |
| *Binghamton | 2.92 | 2.96 | 2.45 | 3.51 | 2.47 | 3.52 | 1.07 | 2.52 | 1.81 | 1.53 | 0.58 | 1.48 | 26.82 |
| Blue Mountain Lake | 4.08 | 7.32 | 4.37 | 3.64 | 6.69 | 3.59 | ..... | 3.15 | 1.98 | 2.30 | 2.25 | 3.30 | ..... |
| Bolivar | 2.78 | 4.42 | 2.54 | 5.31 | 3.85 | 4.63 | 1.38 | 2.06 | 3.22 | 3.06 | 1.66 | 1.48 | 36.39 |
| Bouckville | 3.69 | 5.25 | 3.44 | 2.91 | 4.50 | 3.32 | 3.05 | 1.97 | 2.79 | 2.10 | 1.82 | 2.93 | 37.77 |
| Brockport | 2.96 | 3.78 | 2.24 | 3.56 | 4.91 | 2.55 | 5.48 | 3.14 | 1.66 | 2.59 | 1.50 | 2.18 | 36.55 |
| *Buffalo | 3.12 | 3.70 | 3.03 | 4.59 | 4.33 | 1.05 | 2.49 | 1.69 | 2.61 | 2.54 | 3.51 | 4.20 | 36.86 |
| Cape Vincent | 1.60 | 2.33 | 2.01 | 3.69 | 3.86 | 1.08 | 3.94 | 3.36 | 2.62 | 1.75 | 3.23 | 2.11 | 31.58 |
| *Canton | 3.00 | 3.82 | 3.25 | 3.39 | 5.27 | 1.51 | 3.35 | 2.59 | 3.25 | 1.33 | 3.35 | 1.29 | 35.40 |
| Carmel | 4.79 | 6.72 | 4.16 | 7.22 | 3.02 | 3.43 | 3.43 | 6.76 | 4.40 | 1.08 | 2.84 | 4.06 | 51.91 |
| Carvers Falls | 4.29 | 5.50 | 1.70 | 1.60 | 3.57 | 3.11 | 1.70 | 2.23 | 2.98 | 1.27 | 1.76 | 1.40 | 31.11 |
| Chatham | 3.73 | 3.23 | 2.76 | 3.30 | 2.76 | 6.06 | 1.89 | 3.72 | 3.30 | 0.87 | 1.23 | 2.04 | 34.89 |
| Chazy | 1.46 | 2.00 | 0.98 | 2.80 | 3.82 | 0.65 | 1.00 | 4.38 | 2.42 | 0.50 | 1.46 | 0.50 | 21.97 |
| *Cooperstown | 4.14 | 5.66 | 2.91 | 3.29 | 4.93 | 3.74 | 5.65 | 3.87 | 2.98 | 2.56 | 1.90 | 2.56 | 44.22 |
| *Cortland | 2.91 | 4.04 | 2.40 | 3.17 | 2.39 | 3.14 | 2.62 | 2.15 | 3.45 | 2.96 | 1.54 | 1.61 | 32.38 |
| Cutchogue | 4.04 | 7.16 | 4.14 | 5.70 | 3.40 | 3.37 | 1.25 | 3.47 | 4.66 | 1.74 | 2.70 | 3.80 | 45.43 |
| Dannemora | 4.16 | 2.62 | 2.30 | 3.28 | 5.65 | 1.90 | 3.12 | 2.56 | 2.99 | 0.72 | 1.91 | 2.00 | 33.21 |
| De Ruyter | 3.33 | 5.47 | 4.05 | 3.72 | 3.50 | 2.98 | 4.55 | 2.05 | 3.26 | 2.51 | 1.62 | 2.47 | 40.11 |
| Easton | 4.74 | 5.13 | 3.01 | 2.37 | 4.15 | 3.93 | 1.77 | 3.74 | 4.61 | 1.00 | ..... | ..... | ..... |
| Elba | 1.83 | 3.50 | 2.20 | 2.68 | 4.55 | 1.50 | 4.83 | 1.79 | 1.63 | 2.05 | 1.80 | 3.05 | 31.41 |
| Elmira | 1.83 | 2.25 | 1.77 | 3.81 | 2.28 | 3.77 | 1.46 | 2.61 | 2.09 | 1.81 | 0.84 | 1.21 | 25.73 |
| Faust | ..... | 2.78 | 2.29 | 2.50 | ..... | 2.12 | 3.55 | 1.65 | 3.29 | ..... | ..... | 2.06 | ..... |
| Fayetteville | 2.81 | 3.48 | 3.11 | 4.00 | 3.51 | 3.63 | 2.50 | 1.45 | 1.95 | 1.82 | 1.99 | 1.62 | 31.87 |
| Fort Plain | 4.27 | 4.74 | 2.49 | 3.23 | 3.69 | 3.98 | 4.27 | 3.59 | 2.80 | 1.73 | 1.98 | 1.79 | 38.56 |
| Franklinville | 2.82 | 4.71 | 2.82 | 4.96 | 3.23 | 4.43 | 2.69 | 3.63 | 2.50 | 4.52 | 1.53 | 1.86 | 39.70 |
| Gabriels | 2.61 | 2.80 | 2.44 | 2.43 | 4.68 | 1.61 | 4.72 | 3.97 | 3.40 | 1.86 | 3.15 | 1.47 | 35.14 |
| *Glens Falls | 3.68 | 6.35 | 2.75 | 2.96 | 5.47 | 2.52 | 1.86 | 2.86 | 3.47 | 0.92 | 1.75 | 2.61 | 37.20 |
| Gloversville | 5.33 | 6.86 | 2.50 | 4.17 | 5.18 | 3.99 | 4.87 | 2.93 | 3.02 | 1.28 | 2.65 | 2.42 | 45.20 |
| Greenfield Center | 4.70 | 5.77 | 4.31 | 4.21 | 5.26 | 2.36 | 3.07 | 2.20 | 3.78 | 0.96 | 2.40 | 1.65 | 40.67 |
| *Griffin Corners | 4.12 | 4.45 | 3.02 | 3.39 | 3.86 | 2.66 | 1.12 | 1.48 | 2.54 | 0.97 | 1.44 | 3.46 | 32.51 |
| Harkness | 2.56 | 3.13 | 1.91 | 2.73 | 4.75 | 2.02 | 2.64 | 2.56 | 2.79 | 0.42 | 1.71 | 1.01 | 28.23 |
| Haskinville | 1.45 | 3.10 | 1.97 | 3.35 | 2.53 | 3.14 | 1.31 | 2.82 | 2.71 | 2.33 | 1.57 | 1.46 | 27.74 |
| Hemlock Lake | 1.89 | 0.84 | 0.74 | 2.90 | 1.73 | 0.84 | 2.44 | 1.35 | 1.66 | 2.01 | 1.37 | 0.33 | 18.10 |
| Hunt | 2.98 | 1.40 | 1.67 | 3.75 | 1.62 | 2.71 | 2.41 | 2.32 | 3.08 | 2.26 | 1.20 | 1.32 | 26.72 |
| Indian Lake | 3.50 | 6.15 | 2.55 | 2.15 | 2.87 | 2.20 | 2.35 | 2.15 | 2.00 | 1.80 | 2.60 | 1.72 | 32.04 |
| *Ithaca | 2.64 | 2.80 | 1.78 | 3.18 | 2.15 | 3.97 | 1.62 | 1.63 | 2.90 | 2.24 | 1.08 | 1.21 | 27.20 |
| Jeffersonville | 3.64 | 4.88 | 2.53 | 3.80 | 2.82 | 3.39 | 2.12 | 3.94 | 2.53 | 1.26 | 1.66 | 2.48 | 35.05 |
| Keene Valley | ..... | 4.34 | 3.08 | 1.86 | 4.56 | 2.10 | 3.26 | 2.05 | 3.01 | 0.88 | 2.40 | 2.10 | ..... |
| Keuka Park | 1.73 | 2.82 | 1.38 | 3.40 | 2.49 | 2.27 | 1.15 | 2.43 | 2.21 | 1.61 | 0.72 | ..... | ..... |
| King Ferry | 2.51 | 3.96 | 1.94 | 2.92 | 3.47 | 2.40 | 2.10 | 2.10 | 3.07 | 1.76 | 1.02 | 1.01 | 28.26 |
| Lake George | 5.07 | 7.98 | 4.43 | 2.83 | 4.18 | 3.53 | 2.13 | 3.83 | 3.16 | 0.91 | 1.83 | 2.86 | 42.74 |
| Lake Placid Club | 5.95 | 2.29 | 4.85 | 5.49 | 5.14 | 2.46 | 5.20 | 2.67 | 1.92 | 2.53 | 1.65 | 3.67 | 43.82 |
| Lake Pleasant | 6.65 | 2.30 | 2.35 | 2.10 | ..... | ..... | ..... | 2.15 | ..... | 1.20 | 2.10 | ..... | ..... |
| Le Roy | 2.96 | 3.52 | 2.30 | 3.65 | 3.93 | 1.51 | 4.46 | 1.24 | 2.61 | 2.37 | 1.34 | 2.08 | 31.97 |
| Liberty | 5.40 | 5.44 | 4.65 | 4.96 | 3.27 | 3.58 | 2.10 | 4.67 | 2.94 | 1.39 | 1.47 | 2.44 | 42.31 |
| *Little Falls | 3.54 | 5.49 | 2.65 | 3.03 | 3.33 | 3.56 | 4.63 | 2.98 | 2.21 | 2.20 | 2.43 | 1.68 | 37.73 |
| Lockport | 2.29 | 2.97 | 2.52 | 2.76 | 4.97 | 0.85 | 5.69 | 0.90 | 2.76 | 2.95 | 2.75 | 2.57 | 33.98 |
| Lowville | 2.09 | 5.18 | 2.87 | 1.88 | 3.92 | 2.56 | 2.72 | 2.53 | 2.02 | 2.72 | 2.39 | 2.71 | 33.59 |
| Lyndonville | 0.85 | 2.41 | 0.75 | 1.33 | 2.96 | 0.97 | 3.52 | 1.57 | 1.52 | 2.51 | 2.52 | 1.84 | 22.75 |
| Mohonk Lake | 4.94 | 6.28 | 3.34 | 5.00 | 3.17 | 3.88 | 2.24 | 6.34 | 5.64 | 1.22 | 1.52 | 4.93 | 48.50 |
| Moira | 3.34 | 3.91 | 2.00 | 2.62 | 4.05 | 1.49 | 3.05 | 2.14 | 3.78 | 1.15 | 1.88 | 1.73 | 31.14 |
| Morehouseville | 4.39 | 6.05 | 5.88 | 3.72 | 4.42 | 2.06 | 4.85 | 2.18 | 3.48 | 3.40 | 3.41 | 3.21 | 47.05 |
| Mount Hope | 2.77 | 6.60 | 5.49 | 6.37 | 2.56 | 3.27 | 3.10 | 7.14 | 2.77 | 1.50 | 1.40 | 4.72 | 47.69 |
| Nehasane | 5.06 | 7.01 | 4.48 | 4.37 | ..... | 1.86 | 4.68 | 2.31 | 2.69 | 2.39 | 4.09 | 6.06 | ..... |
| Newark Valley | 2.85 | 3.41 | 2.25 | 3.70 | 3.38 | 6.15 | 1.65 | 2.51 | 3.08 | 2.69 | 1.04 | 1.93 | 34.64 |
| New Lisbon | 3.56 | 5.03 | 2.56 | 3.44 | 3.62 | 3.53 | 3.75 | 4.69 | 2.61 | 2.37 | 1.89 | 1.78 | 38.82 |
| *New York | 3.33 | 4.31 | 3.19 | 5.93 | 1.72 | 3.17 | 1.98 | 7.94 | 2.66 | 0.74 | 1.58 | 5.00 | 41.55 |
| North Creek | 4.99 | 6.30 | 3.04 | 2.89 | 3.62 | 2.92 | 2.12 | 2.48 | 1.97 | 5.35 | 3.17 | 2.86 | 41.71 |
| North Lake | 6.20 | 7.75 | 3.71 | 4.07 | 5.19 | 3.71 | 4.49 | 1.28 | 3.16 | 2.39 | ..... | 1.62 | ..... |
| Norwich | 4.21 | 4.93 | 2.51 | 4.04 | 3.33 | 3.79 | 3.95 | 2.76 | 2.14 | 1.88 | 1.89 | 1.66 | 37.09 |
| Ogdensburg | 2.97 | 3.35 | 3.48 | 2.87 | 4.54 | 1.94 | 3.96 | 2.47 | 4.72 | 1.06 | 2.83 | 1.85 | 36.04 |
| Old Forge | 3.26 | 6.91 | 5.41 | 3.35 | 5.92 | 4.21 | 4.35 | 2.32 | 3.12 | 2.33 | 3.57 | 4.70 | 49.45 |
| *Oneonta | 4.14 | 3.65 | 3.16 | 3.00 | 2.90 | 4.45 | 2.97 | 2.95 | 1.98 | 1.47 | 1.69 | 1.89 | 34.25 |
| *Oswego | 3.88 | 3.85 | 2.56 | 3.26 | 3.21 | 2.40 | 4.39 | 2.00 | 2.56 | 2.23 | 2.09 | 5.16 | 37.59 |
| Otto | 1.69 | 4.13 | 3.43 | 2.47 | 3.61 | 4.37 | ..... | ..... | 2.58 | 2.92 | 2.74 | 0.81 | ..... |
| Oxford | 3.97 | 3.82 | 3.34 | 3.78 | 3.93 | 3.73 | 2.75 | ..... | 3.03 | 2.28 | 1.73 | 2.29 | ..... |
| Palermo | 3.33 | 2.84 | 2.16 | 3.25 | 2.15 | 2.06 | 1.83 | 1.77 | 1.77 | 1.81 | 1.58 | 6.23 | 30.78 |
| Perry City | 2.78 | 3.23 | 1.80 | 2.67 | 2.90 | 2.90 | 1.76 | 2.72 | 3.11 | 2.45 | 1.13 | 1.85 | 29.30 |
| Philadelphia | 2.97 | 5.04 | 3.14 | 3.92 | 5.19 | 1.66 | 4.76 | 2.08 | 2.51 | 2.20 | 3.28 | 4.05 | 40.80 |
| *Port Jervis | 3.39 | 5.21 | 4.04 | 5.98 | 2.83 | 3.54 | 1.37 | 2.39 | 2.83 | 1.20 | 2.13 | 3.88 | 38.79 |
| Potsdam | 3.14 | 2.46 | 2.02 | 2.44 | 5.09 | 1.93 | 3.74 | 1.63 | 3.02 | 3.40 | 2.25 | 1.34 | 32.46 |
| Raquette Lake | 4.86 | 6.25 | 3.19 | 4.50 | 5.49 | 3.95 | 3.67 | 1.79 | 3.57 | 1.51 | 3.98 | 3.33 | 46.09 |
| *Rochester | 2.82 | 2.91 | 2.41 | 3.54 | 3.95 | 0.91 | 3.49 | 1.70 | 1.86 | 2.79 | 1.40 | 1.72 | 29.50 |
| Romulus | 2.22 | 1.32 | 1.42 | 2.19 | 2.98 | 2.05 | 2.78 | 1.63 | 1.61 | 1.43 | 0.89 | 1.70 | 22.22 |
| Salisbury | 4.10 | 7.71 | 3.75 | 4.63 | 3.92 | ..... | 4.97 | 4.42 | 3.79 | 3.64 | 2.42 | 2.29 | ..... |
| Salisbury Mills | 3.54 | 5.16 | 3.32 | 1.85 | 1.62 | 2.43 | 2.05 | 5.63 | 5.12 | 0.88 | 2.55 | 4.12 | 38.27 |
| Searsdale | 1.65 | 1.55 | 2.60 | 7.96 | 2.27 | 2.86 | 3.46 | 8.78 | 5.30 | 1.66 | 0.69 | 6.40 | 45.18 |
| Setauket | 3.17 | 4.70 | 4.02 | 6.11 | 1.78 | 1.55 | 2.44 | 4.88 | 3.96 | 2.10 | 2.12 | 4.33 | 41.16 |
| Shortsville | 1.82 | 2.34 | 1.93 | 2.61 | 3.15 | 2.32 | 3.45 | 2.39 | 2.06 | 1.58 | 0.77 | 0.96 | 25.38 |
| Skaneateles | 3.28 | 4.30 | 3.69 | 4.21 | 4.82 | 1.86 | 3.27 | 1.84 | 2.48 | 2.40 | 2.69 | 2.66 | 37.50 |
| Southampton | 4.24 | 6.09 | 2.83 | 7.36 | 2.65 | 2.28 | 2.54 | 3.67 | 2.82 | 1.68 | 2.54 | 4.07 | 42.80 |
| Spier Falls | 4.54 | 7.15 | 3.66 | 1.88 | 5.17 | 2.47 | 2.33 | 2.95 | 3.12 | 0.69 | 0.89 | 2.42 | 37.27 |
| *Syracuse | 3.00 | 4.55 | 3.80 | 3.09 | 2.84 | 2.25 | 1.72 | 1.96 | 1.68 | 1.31 | 1.29 | 1.76 | 29.25 |
| Ticonderoga | 3.13 | 3.50 | 1.16 | 2.65 | 5.77 | ..... | 2.20 | 3.01 | 2.35 | 0.93 | 0.90 | 1.11 | ..... |
| Volusia | 1.83 | 4.94 | 2.33 | 4.32 | 4.39 | 4.65 | 2.61 | 4.28 | 5.91 | 2.89 | 2.56 | 3.63 | 44.34 |
| Wading River | 3.18 | 6.78 | 4.08 | 6.14 | 2.50 | 2.71 | 1.74 | 6.37 | 4.29 | 2.45 | 2.61 | 4.50 | 47.35 |
| Wappingers Falls | 4.31 | 5.62 | 2.52 | 5.42 | 2.63 | 4.59 | 2.70 | 6.47 | 4.27 | 1.21 | 2.29 | 3.34 | 45.37 |
| Warwick | 3.22 | 4.50 | 2.51 | 5.46 | 2.42 | 2.56 | 1.77 | 3.68 | 3.20 | 0.82 | 2.15 | 4.30 | 36.59 |
| Watertown | 2.69 | 3.98 | 3.54 | 2.72 | 5.43 | 1.61 | 3.60 | 2.29 | 3.11 | 2.90 | 2.28 | 3.58 | 37.73 |
| Waverly | 2.12 | 3.01 | 2.18 | 3.88 | 2.78 | 3.76 | 1.16 | 3.33 | 2.24 | 2.32 | 0.52 | 2.03 | 29.33 |
| Wedgewood | 2.42 | 3.42 | 2.72 | 3.37 | 2.40 | 4.35 | 1.13 | 2.69 | 3.43 | 2.44 | 1.64 | 2.05 | 32.06 |
| West Berne | 3.37 | 3.38 | 2.36 | 1.94 | 4.19 | 3.11 | 2.90 | 2.57 | 2.68 | 0.83 | 0.40 | 2.30 | 30.03 |
| Westfield | 4.02 | 3.72 | 2.81 | 4.56 | 4.43 | 1.84 | 2.85 | 4.84 | 5.70 | 2.80 | 2.81 | 3.46 | 43.84 |
| West Point | 1.66 | 4.31 | 3.43 | 5.83 | 1.83 | 4.46 | 2.00 | 4.50 | 2.57 | 0.69 | 2.07 | 4.68 | 38.03 |
| Windham | 2.88 | 4.03 | 2.61 | 3.58 | 3.68 | 5.10 | 1.73 | 2.60 | 2.68 | 1.26 | 2.37 | 4.04 | 36.56 |
| Youngstown | 3.15 | 3.03 | 2.40 | 3.03 | 5.15 | 0.66 | 3.12 | 3.43 | 1.45 | 2.81 | 2.91 | 1.78 | 32.92 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *North Carolina.* | | | | | | | | | | | | | |
| Andrews | | | | | | | | 4.29 | 3.32 | 4.32 | 1.17 | 5.01 | |
| *Asheville | 1.58 | 3.60 | 5.05 | 3.75 | 7.75 | 7.74 | 5.54 | 4.58 | 2.59 | 3.28 | 0.07 | 3.19 | 48.72 |
| Banners Elk | 3.36 | 5.38 | 6.58 | 4.14 | 8.68 | 5.84 | 4.18 | 5.44 | 3.94 | 4.00 | 0.58 | 4.31 | 56.43 |
| Beaufort | 4.14 | 3.32 | 1.34 | 7.86 | 1.23 | 7.74 | 3.80 | 2.98 | 2.14 | 0.89 | 2.52 | 3.83 | 41.79 |
| Belhaven | 2.53 | 3.49 | 1.82 | 5.76 | 3.79 | 8.15 | 8.71 | 8.60 | 0.83 | 0.74 | 1.23 | 1.47 | 47.12 |
| Blanch | 1.30 | 3.13 | 2.38 | 1.48 | | | | | | | | | |
| Brevard | 3.54 | 7.14 | 7.08 | 4.89 | 7.39 | 11.91 | 8.34 | 4.39 | 3.90 | 3.35 | 0.47 | 7.11 | 69.51 |
| Brewers | 2.72 | 4.25 | 3.56 | 3.15 | 8.48 | 7.41 | 3.19 | 2.46 | 2.52 | 3.21 | | 3.47 | |
| *Bryson City | 3.38 | 6.78 | 7.32 | 4.19 | 8.30 | 8.84 | 6.18 | 5.98 | 2.85 | 3.92 | 0.87 | 4.45 | 63.06 |
| Caroleen | 3.33 | 4.52 | 5.38 | 5.67 | 4.32 | 9.30 | 4.85 | | 6.52 | 1.81 | 0.28 | 4.26 | |
| Chalybeate Springs | 1.98 | 3.28 | 2.10 | | 4.80 | 5.54 | 8.50 | 6.12 | 2.86 | 1.37 | | 2.18 | |
| Chapel Hill | 1.48 | 4.66 | 2.29 | 4.11 | 3.56 | 6.22 | 3.70 | 5.47 | 2.98 | 2.52 | 0.55 | 2.58 | 40.22 |
| *Charlotte | 1.64 | 3.64 | 2.86 | 3.99 | 5.65 | 7.04 | 2.70 | 5.16 | 2.06 | 1.37 | 0.44 | 2.51 | 39.06 |
| Chimney Rock | | | | | | | | | | 2.33 | 0.07 | 5.04 | |
| Clinton | | | 1.52 | 4.25 | | | | | | 0.87 | 0.51 | 1.64 | |
| Durham (near) | 1.58 | 3.85 | 2.49 | 4.53 | 2.74 | 6.17 | 3.03 | 9.35 | 4.12 | 2.55 | 0.19 | 2.80 | 43.40 |
| Eagletown | 2.15 | 2.75 | 2.10 | 7.22 | 4.10 | 14.38 | 2.13 | 5.88 | 1.00 | 1.55 | 0.82 | 3.08 | 47.16 |
| Edenton | 1.91 | 3.60 | 1.47 | 7.89 | 5.02 | 9.77 | | | 1.85 | 1.53 | 2.00 | 1.81 | |
| *Fayetteville | 0.96 | 3.61 | 1.80 | 1.80 | 5.18 | 5.31 | 3.65 | 6.86 | 2.91 | 0.85 | 0.21 | 1.38 | 34.52 |
| *Goldsboro | | | 2.04 | 3.23 | 5.20 | 5.44 | 9.79 | 4.08 | 2.26 | 1.13 | 0.45 | 1.90 | |
| *Graham | 1.55 | 3.43 | 2.99 | 2.66 | 7.40 | 8.33 | 4.22 | 9.63 | 3.04 | 2.21 | 0.15 | 3.01 | 48.62 |
| *Greensboro | 1.54 | 3.17 | 3.60 | 2.00 | 6.60 | 10.45 | 3.79 | 8.08 | 2.34 | 2.67 | 0.45 | 2.35 | 47.04 |
| *Greenville | 1.82 | 5.10 | 2.29 | 5.61 | 5.43 | 8.10 | 14.20 | 2.65 | 2.00 | 0.67 | 2.12 | 1.72 | 51.21 |
| *Hatteras | 3.05 | 3.40 | 1.80 | 7.95 | 1.42 | 4.17 | 2.50 | 4.99 | 1.35 | 0.41 | 2.24 | 2.15 | 35.43 |
| Henderson | 1.34 | 2.89 | 2.27 | 2.74 | 2.79 | 7.42 | 4.99 | 6.87 | 2.53 | 1.22 | 0.34 | 1.65 | 37.05 |
| Hendersonville | 4.44 | 5.84 | 6.74 | 4.14 | 6.65 | 10.46 | 5.04 | 5.64 | 6.48 | 3.58 | 0.57 | 5.70 | 65.28 |
| Highlands | | | | | | | | | | | 1.20 | 9.80 | |
| Hot Springs | 1.80 | 4.12 | 6.82 | 4.07 | 4.90 | 6.93 | 6.41 | 7.55 | 3.01 | 2.57 | 0.35 | 2.41 | 50.94 |
| Kinston | 1.01 | 5.04 | 1.28 | 4.48 | | 10.60 | 8.55 | 7.06 | | | | | |
| Lake Toxaway | 4.87 | 11.12 | | | | | | | | | | | |
| Lenoir | 2.72 | 3.50 | 5.87 | 2.42 | 5.04 | 10.38 | 7.33 | 3.44 | 4.48 | 2.70 | 0.88 | 3.59 | 52.39 |
| Lexington | 1.96 | 3.44 | 3.75 | 4.49 | 6.85 | 11.40 | 7.14 | 6.57 | 0.96 | 2.36 | 0.74 | 2.39 | 52.05 |
| Lincolnton | 0.40 | 1.83 | 1.20 | 4.12 | 5.86 | 11.91 | 7.99 | 3.37 | 2.80 | 2.24 | 1.30 | 1.42 | 44.44 |
| *Louisburg | 1.94 | 3.88 | 2.91 | 3.05 | 4.45 | 8.47 | 4.19 | 4.97 | 2.44 | 2.19 | 0.38 | 1.57 | 40.44 |
| *Lumberton | 1.40 | 3.97 | 1.87 | 2.69 | 3.01 | 7.22 | 3.59 | 7.57 | 2.76 | 1.53 | 0.44 | 2.38 | 38.43 |
| *Manteo | 3.70 | 4.31 | 2.29 | 7.08 | 6.72 | 7.04 | 8.52 | 5.69 | 1.38 | 0.97 | 1.22 | 1.04 | 49.96 |
| Marion | 3.84 | 5.24 | 5.62 | 3.06 | 10.27 | 11.99 | 6.71 | 6.07 | 4.79 | 2.64 | 0.87 | 4.38 | 65.48 |
| Marshall | | 2.83 | 4.01 | 3.50 | 5.85 | 7.62 | 5.91 | 4.45 | 3.90 | 2.51 | 0.22 | 1.90 | |
| *Moncure | 1.72 | 2.98 | 2.28 | 2.63 | 7.73 | 6.31 | 6.10 | 7.36 | 1.92 | 1.11 | 0.17 | 1.75 | 42.06 |
| Monroe | 1.27 | 4.27 | 2.79 | 2.47 | 5.60 | 6.95 | 2.98 | 3.00 | 2.51 | 1.31 | 0.20 | 2.94 | 36.29 |
| Morganton | 2.98 | 4.04 | 5.43 | 2.63 | 4.97 | 9.04 | 8.88 | 8.87 | 6.23 | 2.34 | 0.48 | 4.27 | 60.16 |
| Mount Airy | 2.41 | 3.45 | 3.59 | 4.20 | 5.57 | 4.78 | 4.16 | 2.83 | 2.45 | 1.45 | 0.55 | 3.53 | 38.97 |
| *Mount Holly | 2.02 | 4.18 | 3.36 | 1.78 | 8.26 | 7.76 | 4.02 | 6.72 | 2.54 | 1.08 | 0.80 | 3.34 | 45.86 |
| *Murphy | 3.35 | 9.37 | 9.59 | 3.40 | 10.47 | 6.45 | 5.64 | 3.88 | 3.62 | 4.97 | 0.70 | 4.11 | 65.55 |
| *Nashville | 1.79 | 4.02 | 2.38 | 4.53 | 5.39 | 8.22 | 4.62 | 6.78 | 1.75 | 1.27 | 0.50 | 2.26 | 43.51 |
| *Newbern | 2.41 | 4.33 | 1.24 | 6.26 | 2.27 | 17.05 | 6.75 | 5.61 | 1.78 | 0.77 | 1.01 | 2.03 | 51.51 |
| Pinehurst | 1.24 | 4.13 | 2.28 | 6.06 | 3.61 | 5.56 | 6.92 | 9.49 | 5.09 | 1.29 | T. | 2.00 | 47.67 |
| Pittsboro | | 2.08 | 3.60 | 1.57 | 2.28 | 3.45 | | | | | | 2.51 | |
| *Raleigh | 1.90 | 3.14 | 2.77 | 4.08 | 2.92 | 5.73 | 6.84 | 4.40 | 4.52 | 1.52 | 0.11 | 1.89 | 39.82 |
| Ramseur | 1.50 | 2.72 | 2.28 | 2.52 | 3.15 | | 6.38 | 5.16 | 3.29 | 1.88 | 0.18 | 2.95 | |
| *Randleman | 1.49 | 3.62 | 3.04 | 1.44 | 6.95 | 7.35 | 4.54 | 7.30 | 1.80 | 2.58 | 0.52 | 2.35 | 42.98 |
| *Reidsville | 1.69 | 3.25 | 2.94 | 1.75 | 6.34 | 4.00 | 3.19 | 8.34 | 3.01 | 1.85 | 0.69 | 2.55 | 39.60 |
| Rock House | 5.72 | 10.58 | 9.71 | 7.96 | 10.38 | 13.07 | 6.76 | 6.26 | 9.67 | 2.86 | 1.11 | 8.56 | 92.64 |
| Rockingham | 1.55 | 3.73 | 1.70 | 4.54 | 2.46 | | 4.16 | 5.83 | 2.80 | 1.27 | 1.45 | | |
| Salem | 1.66 | 3.12 | 4.26 | 4.26 | 5.48 | 9.97 | 4.33 | 6.41 | 2.28 | 1.48 | 1.03 | 2.06 | 46.34 |
| *Salisbury | 1.64 | 3.60 | 3.31 | 1.82 | 7.41 | 8.85 | 4.04 | 3.73 | 3.15 | 1.39 | 1.33 | 2.48 | 42.75 |
| Saxon | 2.77 | 3.21 | 3.58 | 4.24 | 4.86 | 6.54 | 5.98 | 6.28 | 1.52 | 1.67 | 0.58 | 2.42 | 43.65 |
| Scotland Neck | 1.78 | 3.00 | 1.62 | 5.69 | 3.15 | 8.81 | 4.13 | 6.02 | 1.45 | 1.86 | 0.90 | | |
| Selma | 2.50 | 2.95 | 2.05 | 9.90 | 2.85 | 4.25 | 7.20 | 7.95 | | | 0.90 | 2.50 | |
| Settle | 2.63 | 2.64 | 4.32 | 3.79 | 8.18 | 7.92 | 8.33 | 4.67 | 5.00 | 1.87 | 0.60 | 2.96 | 52.91 |
| Sloan | 1.58 | 5.00 | 1.48 | 0.89 | 3.30 | 9.82 | 5.52 | 5.77 | 3.07 | 1.24 | 1.15 | 2.84 | 45.66 |
| Snow Hill | 1.24 | 3.97 | 1.88 | 5.84 | 5.24 | 10.80 | 9.87 | 4.34 | 1.50 | 0.60 | 0.89 | 1.94 | 48.11 |
| Southern Pines | 1.20 | 3.62 | 1.91 | 3.87 | 6.43 | 4.45 | 8.75 | 9.12 | 2.99 | 1.19 | T. | 2.08 | 45.61 |
| Southport | 2.23 | 3.66 | 2.17 | 4.31 | 2.56 | 5.09 | 6.12 | 8.85 | 1.98 | 1.64 | 0.41 | 3.07 | 42.09 |
| Statesville | | | | | 5.58 | 10.67 | 5.96 | 4.95 | 1.58 | 2.92 | 1.11 | 2.52 | |
| Sunburst | | | 11.29 | 5.13 | 9.67 | 6.27 | 6.85 | | | | | | |
| *Tarboro | 2.00 | 3.41 | 1.96 | 5.93 | 6.17 | 9.92 | 4.07 | 6.99 | 0.86 | 1.42 | 1.21 | 2.48 | 46.42 |
| Troy | | 4.07 | 2.43 | 1.30 | 6.40 | 10.21 | 3.14 | 7.16 | 4.26 | 1.23 | 2.21 | 2.67 | |
| *Wash Woods | | 3.51 | 2.10 | | 2.14 | | | | | | | | |
| Waynesville | 1.60 | 6.35 | 7.26 | 1.82 | 7.81 | 8.19 | 6.03 | 4.17 | 2.58 | 2.75 | 0.10 | 3.70 | 52.36 |
| *Weldon | 1.08 | 2.68 | 1.91 | 4.94 | 4.34 | 7.29 | 3.02 | 3.47 | 2.41 | 1.75 | 0.63 | 2.09 | 35.61 |
| Whiteville | 1.47 | 4.23 | 0.99 | 2.99 | 6.77 | 3.96 | 5.29 | | 5.13 | 0.41 | 0.43 | 2.68 | |
| Willard | 1.19 | 5.35 | 1.21 | 7.11 | 8.53 | 6.31 | 6.28 | 5.48 | 3.33 | 1.18 | 1.70 | 3.65 | 51.32 |
| *Wilmington | 1.06 | 3.30 | 0.89 | 3.76 | 3.07 | 2.57 | 2.97 | 4.09 | 1.23 | 1.67 | 0.57 | 2.50 | 27.68 |
| *North Dakota.* | | | | | | | | | | | | | |
| *Amenia | 0.80 | 0.20 | 0.15 | 1.00 | 5.77 | 7.65 | 2.99 | 2.89 | 0.60 | 1.42 | T. | 1.50 | 24.97 |
| Aplin | | | 0.15 | 0.77 | 5.08 | 4.51 | 1.08 | 1.97 | 0.81 | 0.71 | 0.18 | 1.25 | |
| Beach | 0.35 | 0.65 | 0.17 | 0.63 | 7.03 | 5.09 | 2.36 | 3.05 | 1.20 | 0.04 | 0.27 | 1.18 | 22.02 |
| Berlin | 0.20 | 0.35 | 0.10 | 0.76 | 3.99 | 2.97 | 5.52 | 2.87 | | | | | |
| Berthold Agency | 0.58 | 0.43 | 0.17 | 0.38 | 3.86 | 6.41 | 1.18 | 1.63 | 1.15 | 0.82 | 0.29 | 0.67 | 17.57 |
| *Bismarck | 0.21 | 0.36 | 0.27 | 0.84 | 4.43 | 2.19 | 2.41 | 4.77 | 0.83 | 0.78 | 0.41 | 1.05 | 18.55 |
| *Bottineau | 0.61 | 1.08 | 2.57 | 0.88 | 4.44 | 1.66 | 4.57 | 1.38 | 0.53 | 0.43 | 0.47 | 1.75 | 70.37 |
| Broncho | 0.55 | 0.27 | 0.24 | 0.33 | 4.23 | 4.18 | 0.41 | 1.03 | 0.93 | 1.08 | 0.35 | 0.97 | 14.57 |
| Buford | 0.00 | 0.00 | 0.41 | 0.50 | 3.51 | 1.97 | 1.68 | 0.27 | 0.66 | 0.17 | 0.20 | 0.40 | 9.77 |
| Cando | 0.29 | 0.23 | 0.32 | 0.47 | 5.54 | 2.56 | 3.42 | | 0.53 | 0.10 | 0.34 | 0.63 | |
| Coal Harbor | 0.50 | 0.40 | 0.35 | 0.35 | 3.25 | | | 1.16 | 0.81 | 0.10 | 0.10 | 0.65 | |
| Crosby | 0.53 | 0.20 | 0.22 | 0.59 | 3.40 | 1.75 | 1.11 | 0.85 | 0.69 | 0.49 | 0.58 | 0.93 | 11.34 |
| *Devils Lake | 0.26 | 0.43 | 0.39 | 0.64 | 5.18 | 3.05 | 2.56 | 3.60 | 1.15 | 0.21 | 0.26 | 1.05 | 18.78 |
| *Dickinson | 0.27 | 0.52 | 0.25 | 0.51 | 5.78 | 3.28 | 1.89 | 5.54 | 0.83 | 1.08 | 0.29 | 1.02 | 21.26 |
| Donnybrook | 0.80 | 0.55 | 0.20 | 0.82 | 3.95 | 1.27 | 1.07 | T. | 0.20 | 1.20 | 0.20 | 0.75 | 11.01 |
| Dunseith | 0.55 | 0.70 | 1.00 | 1.03 | 3.33 | 1.87 | 3.32 | 1.22 | 0.48 | T. | 0.40 | 0.30 | 14.20 |
| Edgeley | 0.12 | 0.25 | T. | 0.70 | 4.01 | 2.80 | 3.04 | 1.73 | 0.89 | 0.42 | 0.34 | 0.84 | 15.14 |
| Edmore | 0.60 | 0.80 | 0.70 | T. | 3.24 | 3.82 | 2.54 | 3.83 | 0.57 | 0.90 | T. | | |
| *Ellendale | 0.21 | 0.16 | 0.02 | 0.96 | 4.09 | 1.49 | 2.68 | 3.92 | 0.92 | 0.51 | 0.19 | 0.58 | 15.73 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *North Dakota*—Continued. | | | | | | | | | | | | | |
| Epping | 0.70 | 0.25 | 0.11 | 0.63 | 3.02 | 4.09 | 1.44 | 0.40 | 1.11 | 0.20 | 0.28 | 0.65 | 12.88 |
| Forman | 0.10 | 0.60 | 0.10 | 0.50 | 5.52 | 2.46 | 4.55 | 0.95 | 1.14 | 1.74 | 0.50 | 1.53 | 19.69 |
| Fullerton | 0.84 | 0.64 | 0.23 | 1.35 | 3.46 | 3.94 | 5.22 | 2.04 | 0.66 | 0.44 | 1.00 | 2.70 | 22.52 |
| Grafton | 0.00 | 0.04 | ..... | ..... | ..... | ..... | 5.45 | 5.79 | 1.68 | ..... | 0.45 | 2.10 | ..... |
| Granville | T. | T. | 0.07 | 0.26 | 3.26 | 4.11 | 1.06 | 1.52 | 0.56 | 0.53 | 0.06 | 0.70 | 12.13 |
| Haley | 0.28 | 0.30 | 0.13 | 0.99 | 5.00 | 3.97 | 1.93 | 1.06 | 1.75 | 1.01 | 0.41 | 0.57 | 17.40 |
| Hannah | 1.00 | 0.20 | 0.20 | 0.12 | 3.39 | 2.55 | 2.92 | 3.70 | T. | 0.36 | 0.72 | 1.60 | 16.76 |
| Hansboro | 0.42 | 0.03 | 0.36 | 0.52 | 4.22 | 1.85 | 2.00 | 0.93 | 0.60 | 0.20 | 0.32 | 0.84 | 12.29 |
| Hettinger | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.21 | 0.62 | 0.10 | 0.55 | 0.90 | ..... |
| Hillsboro | 0.68 | 0.28 | 0.46 | 1.81 | 8.27 | 4.19 | 1.69 | 4.76 | 1.73 | 0.79 | 0.95 | 2.28 | 27.89 |
| Howard | 0.71 | 0.46 | 0.35 | 1.20 | 2.96 | 2.89 | 0.74 | 0.87 | 0.20 | 0.56 | 0.90 | 1.75 | 13.61 |
| Jamestown | 0.37 | 0.45 | 0.34 | 1.28 | 6.09 | 1.97 | 5.20 | 3.23 | 0.83 | 0.83 | 0.60 | 1.44 | 22.63 |
| Lakota | 1.45 | 0.37 | 0.31 | 1.11 | 3.79 | 4.38 | 2.37 | 3.16 | 1.31 | 0.80 | 0.50 | 4.84 | 24.39 |
| Lamoine | 0.35 | 0.29 | 0.25 | 0.27 | 4.19 | 2.22 | 3.77 | 1.69 | 1.60 | 0.57 | T. | 1.50 | 16.70 |
| La Moure | ..... | ..... | ..... | 2.04 | 5.49 | 4.15 | 3.66 | 3.13 | 0.54 | 0.54 | ..... | ..... | ..... |
| *Langdon | 0.69 | 0.45 | ..... | 0.65 | 2.57 | 4.01 | 3.42 | 2.66 | 0.61 | T. | 0.43 | 3.50 | ..... |
| *Larimore | ..... | ..... | ..... | 0.84 | 2.79 | 3.19 | 1.93 | 3.28 | 0.20 | ..... | ..... | ..... | ..... |
| *Lisbon | 0.26 | 0.25 | 0.08 | 1.33 | 5.09 | 4.34 | 6.82 | 2.91 | 0.62 | 1.43 | 0.60 | 2.25 | 25.98 |
| McKinney | 0.55 | 0.20 | 0.42 | 0.45 | 3.53 | 2.05 | 0.86 | 0.26 | 0.16 | 0.75 | 0.50 | 0.80 | 10.53 |
| Manfred | 0.40 | 0.95 | 0.63 | 1.22 | 4.31 | 2.34 | 2.78 | 2.19 | 0.82 | 0.87 | 0.20 | 1.70 | 18.41 |
| Marmarth | 0.21 | 0.33 | 0.07 | 1.06 | 5.19 | 3.68 | 2.20 | 1.50 | 1.55 | 0.08 | 0.19 | 0.29 | 16.35 |
| Marstonmoor | 0.13 | 0.10 | 0.05 | 0.60 | 4.01 | 2.86 | 5.91 | 4.39 | 0.41 | 0.23 | 0.40 | 1.37 | 20.46 |
| Mayville | 0.30 | 0.00 | 0.34 | 0.65 | 4.65 | 4.11 | 2.35 | 4.23 | 0.50 | 0.45 | 0.50 | 1.40 | 19.48 |
| Medina | 0.30 | 0.10 | 0.45 | 0.07 | ..... | 1.52 | 3.10 | 4.61 | ..... | ..... | ..... | ..... | ..... |
| *Medora | 0.60 | 0.60 | 0.35 | 0.09 | 8.60 | 6.08 | 2.98 | 3.84 | 1.10 | 0.25 | 1.04 | 0.36 | 25.89 |
| Melville | T. | 0.30 | 0.10 | 0.88 | 4.34 | 1.71 | 2.66 | 2.57 | 0.96 | 0.42 | 0.30 | 1.40 | 15.64 |
| Milnor | ..... | ..... | ..... | 1.00 | 5.60 | 2.00 | 5.90 | 1.60 | 1.10 | ..... | ..... | ..... | ..... |
| *Minot | 0.31 | 0.27 | 0.51 | 0.42 | 2.38 | 3.20 | 1.47 | 0.55 | 0.49 | 1.03 | 0.22 | 0.88 | 11.73 |
| Minto | T. | T. | 1.00 | 1.07 | 3.32 | 6.64 | 4.39 | 2.65 | 1.37 | 0.47 | 0.80 | 1.38 | 23.09 |
| Mott | 0.41 | 0.72 | 0.22 | 0.61 | 5.38 | 3.49 | 4.33 | 0.64 | 1.25 | 1.23 | 0.70 | 1.47 | 20.45 |
| Napoleon | 0.10 | 0.30 | 0.20 | 0.65 | 4.07 | 2.88 | 2.62 | 3.55 | 0.90 | 0.70 | 0.35 | 1.30 | 17.62 |
| New England | 0.47 | 0.50 | 0.30 | 0.37 | 2.81 | 3.85 | 2.78 | 5.35 | 2.04 | 0.60 | 0.90 | ..... | ..... |
| New Salem | 0.27 | 0.31 | 0.82 | 0.95 | 3.09 | 3.06 | 3.48 | 3.03 | 0.85 | 0.70 | 0.42 | 1.25 | 18.26 |
| Orange | T. | 0.60 | 0.75 | 0.46 | 4.92 | 3.86 | 2.51 | 0.94 | 1.20 | 0.50 | 0.60 | 2.10 | 18.44 |
| Oriska | 0.22 | 0.34 | 0.18 | 1.21 | 3.52 | 2.20 | 4.00 | 3.05 | 0.55 | 0.63 | 0.60 | ..... | ..... |
| Palermo | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.75 | 0.60 | 1.20 | 0.10 | 0.80 | ..... |
| Park River | 0.42 | 0.22 | 0.07 | 1.01 | 4.06 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *Pembina | 0.80 | 0.10 | 0.80 | 0.77 | 4.85 | 4.66 | 1.90 | 1.43 | 1.66 | 0.62 | 0.02 | 2.90 | 20.51 |
| Portal | 0.25 | 0.00 | 0.00 | 0.00 | 2.30 | 1.10 | 2.15 | 0.73 | 0.08 | ..... | ..... | ..... | ..... |
| Power | 0.92 | ..... | 0.35 | 0.53 | 5.48 | 2.43 | 5.36 | 3.93 | 1.87 | 1.98 | 1.85 | 1.85 | ..... |
| Pratt | 0.45 | 0.60 | ..... | 0.32 | 2.76 | 3.57 | 1.13 | 1.68 | 0.00 | 0.41 | 0.24 | 0.70 | ..... |
| Schafer | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.23 | 0.30 | 0.54 | ..... |
| Steele | T. | T. | T. | 0.90 | 2.57 | 2.37 | 4.10 | 2.09 | 0.62 | 0.69 | 0.15 | 1.40 | 14.89 |
| Swartwood | 0.29 | 0.23 | 0.08 | 0.90 | 4.74 | 3.78 | 2.07 | 1.61 | 1.97 | 0.68 | 0.51 | ..... | ..... |
| Towner | 0.32 | 0.35 | 0.10 | 0.50 | 4.22 | 2.69 | 2.84 | 0.50 | ..... | ..... | ..... | ..... | ..... |
| University | 0.86 | 0.10 | 0.27 | 0.90 | 2.60 | 4.52 | 0.96 | 2.39 | 0.67 | 0.45 | 0.75 | 0.75 | 15.42 |
| *Wahpeton | ..... | ..... | T. | 2.27 | 3.24 | 1.60 | 3.56 | 2.82 | 2.03 | 1.58 | ..... | 1.32 | ..... |
| Walhalla | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.01 | 0.62 | 1.28 | ..... | ..... | ..... |
| Washburn | ..... | ..... | ..... | ..... | ..... | ..... | 1.93 | 1.02 | 1.27 | 0.27 | 0.11 | 0.36 | ..... |
| Westhope | 0.55 | 0.35 | 0.45 | 0.80 | 3.19 | 2.08 | 2.75 | 0.63 | 1.38 | 0.55 | 0.46 | 0.38 | 13.57 |
| *Williston | 0.31 | 0.10 | 0.12 | 0.64 | 2.82 | 4.02 | 1.57 | 0.22 | 1.07 | 0.21 | 0.20 | 0.46 | 11.74 |
| Willow City | 0.40 | 0.35 | T. | 0.74 | 3.88 | 1.80 | 3.05 | 0.82 | 0.21 | 0.27 | 0.30 | 1.10 | 12.92 |
| Wishek | T. | 0.35 | 0.07 | 0.69 | 5.45 | 3.86 | 6.14 | 2.94 | 0.80 | 0.40 | 0.20 | 1.69 | 22.59 |
| *Ohio.* | | | | | | | | | | | | | |
| Akron | 2.58 | 3.61 | 2.32 | 4.06 | 3.22 | 4.44 | 2.86 | 3.82 | 2.20 | 1.23 | 2.39 | 2.29 | 35.02 |
| Amesville | 3.35 | 6.65 | 2.70 | 3.56 | 4.77 | 7.70 | 5.78 | 3.27 | 1.28 | 1.46 | 1.43 | 2.78 | 44.73 |
| *Bangorville | 3.21 | 6.90 | 3.59 | 4.60 | 4.74 | 7.98 | 2.81 | 7.30 | 1.68 | 2.62 | 3.12 | 3.69 | 52.24 |
| *Bellefontaine | 3.11 | 4.33 | 2.19 | 4.83 | 5.82 | 6.41 | 5.97 | 2.42 | 1.40 | 2.06 | 3.99 | 2.48 | 45.01 |
| Benton Ridge | 2.67 | 4.37 | 3.30 | 3.84 | 5.57 | 12.70 | 2.37 | 4.21 | 1.82 | 2.46 | 3.71 | 2.39 | 49.41 |
| Bladensburg | 3.08 | 5.68 | 2.96 | 4.75 | 4.89 | 5.61 | 3.25 | 5.58 | 1.14 | 2.35 | 2.15 | 3.05 | 44.49 |
| Bowling Green | 2.70 | 4.64 | 2.12 | 2.43 | 5.36 | 4.04 | 2.45 | 1.70 | 1.61 | 2.46 | 4.86 | 2.53 | 36.90 |
| *Bucyrus | 2.71 | 5.63 | 3.10 | 5.10 | 5.35 | 6.46 | 1.88 | 7.75 | 1.64 | 2.39 | 3.87 | 2.91 | 48.79 |
| Cadiz | 4.12 | 5.50 | 4.11 | 5.00 | 3.56 | 5.90 | 4.69 | 2.93 | 1.62 | 1.69 | 1.65 | 2.77 | 43.54 |
| California | ..... | ..... | ..... | ..... | 3.79 | 3.87 | 4.52 | 1.22 | 1.48 | ..... | ..... | ..... | ..... |
| Cambridge | 4.99 | 5.21 | 3.31 | 4.61 | 5.27 | 4.22 | 4.05 | 2.84 | 1.58 | 2.29 | 1.31 | 3.00 | 42.66 |
| Camp Dennison | 2.58 | 5.85 | 2.49 | 3.71 | 4.18 | 4.19 | 4.24 | 3.70 | 0.84 | 2.85 | 1.75 | 2.60 | 38.98 |
| *Canal Dover | 3.95 | 4.87 | 3.80 | 4.36 | 3.62 | 3.34 | 4.41 | 3.33 | 1.46 | 2.09 | 1.82 | 2.90 | 39.95 |
| *Canton | 3.23 | 4.79 | 2.90 | 4.62 | 2.74 | 3.30 | 4.23 | 2.68 | 1.94 | 1.77 | 2.18 | 2.05 | 36.43 |
| Cardington | 2.69 | 6.54 | 2.74 | ..... | 5.76 | 5.82 | 2.59 | ..... | ..... | ..... | ..... | ..... | ..... |
| *Chillicothe | 2.94 | 5.10 | ..... | 4.30 | 4.10 | 8.80 | 6.07 | 3.04 | ..... | 2.20 | 1.40 | 2.94 | ..... |
| *Cincinnati | 2.57 | 5.65 | 2.44 | 3.62 | 4.21 | 5.06 | 3.83 | 1.82 | 1.39 | 3.02 | 1.42 | 2.40 | 37.43 |
| *Circleville | 3.43 | 4.88 | 2.15 | 3.68 | 5.72 | 7.81 | 4.51 | 2.14 | 1.84 | 2.78 | 1.65 | 3.34 | 43.93 |
| Clarington | 4.98 | 6.38 | 3.82 | 4.33 | 5.81 | 4.93 | 3.90 | 3.27 | 1.30 | 2.26 | 1.33 | 2.52 | 44.73 |
| Clarksville | 2.67 | 6.20 | 2.62 | 5.02 | 5.55 | 5.12 | 3.87 | 3.66 | ..... | ..... | ..... | ..... | ..... |
| *Cleveland | 2.96 | 3.22 | 2.92 | 3.41 | 2.50 | 3.72 | 3.12 | 2.31 | 3.40 | 1.40 | 3.28 | 2.05 | 34.29 |
| Cleveland | 4.20 | 4.04 | 2.70 | 3.59 | 2.68 | 4.90 | 3.58 | 2.05 | 3.80 | 1.75 | 3.71 | 2.12 | 39.12 |
| *Columbus | 2.52 | 4.97 | 2.68 | 3.20 | 4.65 | 3.88 | 3.34 | 2.53 | 1.81 | 2.77 | 1.66 | 2.58 | 36.59 |
| *Coshocton | 4.20 | 5.61 | ..... | 5.34 | ..... | ..... | 4.15 | 3.13 | 2.12 | 2.39 | 1.68 | 3.05 | ..... |
| *Dayton | 2.95 | 6.77 | 2.23 | 5.13 | 6.25 | 5.60 | 4.84 | 3.41 | 0.84 | 4.19 | 2.00 | 2.59 | 46.80 |
| *Defiance | 2.42 | 4.20 | 1.93 | 3.13 | 3.64 | 9.00 | 2.11 | 5.10 | 2.14 | 1.95 | 3.94 | 1.66 | 41.22 |
| Delaware | 2.88 | 6.32 | 2.66 | 4.05 | 4.80 | 4.12 | 3.14 | 3.90 | 1.17 | 2.67 | 2.82 | 2.56 | 41.09 |
| Demos | 3.84 | 5.90 | 3.75 | 4.34 | 5.50 | 3.74 | 3.02 | 2.59 | 0.63 | 2.19 | 1.22 | 2.59 | 39.31 |
| Dennison | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 4.20 | 1.80 | 3.32 | 2.01 | 2.80 | ..... |
| *Findlay | 3.49 | 5.05 | 3.13 | 3.60 | 5.04 | 9.94 | 1.67 | 4.43 | 1.82 | 1.78 | 3.49 | 2.02 | 45.46 |
| Frankfort | 2.58 | 5.14 | 2.02 | 3.53 | 4.81 | 5.19 | 3.08 | 2.26 | 1.67 | 2.77 | 1.80 | 2.61 | 37.46 |
| *Fremont | 2.76 | 5.18 | 2.26 | 3.17 | 6.54 | 5.47 | 5.48 | 3.20 | 0.88 | 2.02 | 4.34 | 2.15 | 43.45 |
| Garrettsville | 3.42 | 4.49 | 2.75 | 4.59 | 2.20 | 4.13 | 3.09 | 2.75 | 1.81 | 1.55 | 2.57 | 2.09 | 35.44 |
| *Granville | 3.89 | 6.32 | 3.31 | 4.29 | 6.47 | 6.39 | 3.17 | 6.13 | 1.43 | 3.00 | 1.84 | 3.78 | 50.02 |
| Gratiot | 3.96 | 5.55 | 3.39 | 5.40 | 5.97 | 5.05 | 3.54 | 5.95 | 1.86 | 2.34 | 0.79 | 3.52 | 47.32 |
| Green | 3.94 | 5.65 | 3.08 | 3.48 | 3.06 | 6.89 | 3.12 | 4.24 | 3.06 | 2.77 | 1.16 | 2.04 | 42.49 |
| Green Hill | 3.38 | 4.80 | 3.28 | 4.46 | 2.68 | 4.23 | 3.62 | 1.93 | 1.13 | 1.21 | 1.73 | 2.20 | 34.65 |
| *Greenville | 2.74 | 6.33 | 2.49 | 3.99 | 5.81 | 3.44 | 4.99 | 2.23 | 1.09 | 4.21 | 3.76 | 3.07 | 44.15 |
| Hedges | 2.51 | 4.54 | 2.49 | 4.13 | 3.26 | 5.76 | 1.31 | 2.25 | 3.48 | 2.97 | 3.94 | 3.17 | 39.81 |
| Hillhouse | 3.18 | 4.42 | 2.68 | 4.02 | 4.22 | 3.81 | 3.24 | 2.15 | 2.51 | 2.62 | 3.04 | 2.01 | 37.90 |
| Hillsboro | 3.07 | 7.00 | 3.17 | 5.38 | 4.95 | 6.69 | 5.78 | 4.30 | 2.24 | 2.77 | 2.43 | 2.51 | 50.29 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Ohio*—Continued. | | | | | | | | | | | | | |
| Hiram | 3.01 | 3.93 | 2.24 | 4.89 | 2.42 | 4.41 | 2.70 | 3.48 | 1.41 | 1.39 | 3.31 | 1.85 | 35.04 |
| Hudson | 3.35 | 4.01 | 2.71 | 5.25 | 2.64 | 4.91 | 4.46 | 3.36 | 2.19 | 0.86 | 3.28 | 2.58 | 39.60 |
| Ironton | 3.45 | 6.08 | 3.03 | 4.79 | 3.58 | 8.00 | 3.27 | 3.45 | 1.58 | 2.09 | 1.64 | 1.49 | 42.45 |
| Jacksonburg | 2.69 | 7.36 | 2.00 | 5.72 | 7.00 | 5.89 | 5.33 | 4.60 | 0.79 | 5.25 | 2.13 | 4.19 | 52.95 |
| Kenton | 2.03 | 5.11 | 2.05 | 4.24 | 5.32 | 7.26 | 1.95 | 2.60 | 1.00 | 2.79 | 2.60 | 2.55 | 39.50 |
| Killbuck | 4.02 | 5.88 | 3.84 | 5.28 | 4.06 | 5.91 | 3.19 | 4.85 | 1.72 | 2.04 | 2.60 | 2.71 | 46.10 |
| Lancaster | 3.86 | 5.30 | 2.49 | 3.99 | 4.17 | 6.62 | 4.26 | 4.91 | 1.34 | 2.68 | 1.48 | 2.49 | 43.59 |
| Lawsbe | 3.10 | 9.91 | 3.11 | 4.80 | 4.48 | 4.02 | 4.93 | 5.33 | 2.31 | 2.94 | 1.76 | 2.53 | 49.22 |
| *Lima | 3.22 | 6.48 | 3.13 | 4.53 | 5.87 | 6.76 | 2.64 | 1.23 | 1.90 | 2.26 | 2.88 | 3.55 | 44.45 |
| McConnelsville | 4.14 | 6.05 | 2.98 | 3.88 | 4.60 | 6.81 | 2.43 | 4.28 | 1.35 | 2.27 | 1.60 | 3.06 | 43.45 |
| Marietta | 3.48 | 6.18 | 2.90 | 4.63 | 4.78 | 8.51 | 3.50 | 3.85 | 1.38 | 1.94 | 0.98 | 3.24 | 45.37 |
| *Marion | 3.94 | 6.35 | 2.53 | 5.73 | 4.80 | 6.64 | 3.62 | 5.95 | 1.62 | 2.62 | 2.58 | 2.90 | 49.28 |
| Medina | 2.73 | 4.56 | 2.28 | 4.47 | 3.02 | 6.18 | 3.59 | 3.96 | 2.33 | 1.78 | 3.44 | 2.21 | 40.55 |
| Milfordton | 3.15 | 5.14 | 3.48 | 4.43 | 5.51 | 9.80 | 3.61 | 8.78 | 1.56 | 2.73 | 2.17 | 3.62 | 53.98 |
| Milligan | 3.65 | 5.63 | 3.07 | 4.26 | 5.51 | 6.64 | 3.48 | 3.54 | 1.59 | 2.16 | 0.75 | 2.48 | 42.76 |
| Millport | 3.39 | 4.78 | 3.58 | 3.76 | 2.05 | 3.65 | 3.36 | 3.78 | 0.96 | 1.17 | 1.58 | 1.81 | 33.87 |
| *Montpelier | 3.28 | 5.92 | 2.20 | 4.05 | 5.11 | 5.54 | 3.53 | 2.89 | 1.83 | 2.46 | 4.79 | 4.39 | 46.99 |
| *Napoleon | 3.37 | 4.47 | 2.27 | 3.28 | 5.14 | 6.44 | 2.49 | 3.96 | 2.25 | 2.41 | 4.42 | 2.68 | 43.18 |
| Nellie | 5.14 | 5.62 | 3.90 | 3.11 | 5.70 | 6.05 | 2.43 | 2.46 | 1.43 | 1.82 | 1.86 | 1.99 | 41.51 |
| New Alexandria | 2.40 | 5.00 | 4.78 | 6.28 | 3.72 | 6.40 | 2.83 | 4.03 | 1.30 | 1.74 | 1.05 | 3.06 | 42.65 |
| New Berlin | 2.65 | 4.43 | 2.90 | 4.58 | 2.92 | 2.95 | 3.33 | 3.67 | 2.96 | 1.86 | 2.58 | 2.06 | 36.89 |
| New Bremen | 1.96 | 5.01 | 2.34 | 4.19 | 6.28 | 3.18 | 3.39 | 2.17 | 1.99 | 3.63 | 2.57 | 1.89 | 38.60 |
| New Richmond | 2.64 | 6.16 | 2.38 | 3.86 | 3.31 | 3.62 | 4.75 | 3.14 | ..... | ..... | ..... | ..... | ..... |
| New Waterford | 4.58 | 4.70 | 3.59 | 4.96 | 2.58 | 5.34 | 2.86 | 0.76 | 0.65 | 1.73 | 1.09 | 1.93 | 35.37 |
| North Lewisburg | ..... | ..... | 3.00 | 3.80 | 5.70 | 8.20 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| North Royalton | 3.61 | 3.80 | 2.59 | 4.49 | 2.64 | 4.52 | 5.50 | 5.56 | 2.36 | 2.08 | 4.04 | 2.39 | 43.58 |
| *Norwalk | 3.32 | 5.46 | 2.79 | 3.25 | 5.87 | 5.23 | 4.28 | 2.74 | 1.42 | 1.94 | 3.84 | 1.90 | 42.04 |
| Oberlin | 2.92 | 5.17 | 3.08 | 3.12 | 4.51 | 5.42 | 4.74 | 4.04 | 4.21 | 1.90 | 3.80 | 2.18 | 45.09 |
| Ohio State University | 3.40 | 6.01 | 2.73 | 3.74 | 4.78 | 4.51 | 4.42 | 2.43 | 1.52 | 1.59 | 1.77 | 2.68 | 39.58 |
| Orangeville | 4.84 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Ottawa | 2.97 | 4.74 | 2.47 | 3.80 | 3.67 | 7.12 | 1.31 | 2.82 | 2.32 | 2.15 | 4.30 | 2.31 | 39.98 |
| Pataskala | 3.56 | 5.25 | ..... | 4.85 | 6.36 | 5.46 | 4.43 | 2.47 | 2.83 | 3.25 | 2.11 | 3.07 | ..... |
| Philo | 4.02 | 4.30 | 2.62 | 4.29 | 6.15 | 7.57 | 3.35 | 4.54 | 2.42 | 2.21 | 1.30 | 2.02 | 44.79 |
| Plattsburg | 2.98 | 6.64 | 1.79 | 5.08 | 6.67 | 6.52 | 5.43 | 3.16 | 1.23 | 3.52 | 1.77 | 3.52 | 48.31 |
| *Pomeroy | 8.64 | 5.12 | ..... | ..... | ..... | 2.82 | 4.02 | 2.10 | 1.58 | 1.85 | 1.53 | 2.26 | ..... |
| *Portsmouth | 3.63 | 6.10 | ..... | 3.59 | 4.86 | 8.96 | 3.67 | 4.59 | 2.01 | 2.32 | 1.73 | 2.78 | ..... |
| Rittman | 3.33 | 4.24 | 2.47 | 4.78 | 3.13 | 5.20 | 4.15 | 5.37 | 1.46 | 1.43 | 2.75 | 2.18 | 40.49 |
| Rocky Ridge | 2.44 | 5.79 | 2.16 | 2.45 | 7.15 | 5.10 | 5.38 | 1.95 | 1.08 | 2.35 | 3.91 | ..... | ..... |
| Rome | 2.93 | 4.55 | 2.35 | 4.24 | 4.29 | 7.95 | 4.11 | 1.51 | 3.37 | ..... | 2.66 | 2.81 | ..... |
| *Sandusky | 2.52 | 4.44 | 2.16 | 2.50 | 5.22 | 4.98 | 6.52 | 1.48 | 1.03 | 1.56 | 3.67 | 2.23 | 38.31 |
| Shenandoah | 2.15 | 4.81 | 2.65 | 3.71 | 5.04 | 5.38 | 2.93 | 3.21 | 2.50 | 2.17 | 3.34 | 1.85 | 39.74 |
| *Sidney | 2.11 | 5.83 | 2.18 | 4.92 | 6.45 | 2.63 | 3.81 | 5.00 | 1.44 | 3.52 | 2.94 | 2.76 | 43.59 |
| Springfield | 2.97 | 6.98 | 2.39 | 4.84 | 6.37 | 7.02 | 7.27 | 4.35 | 1.24 | 3.92 | 2.20 | 3.25 | 52.80 |
| *Somerset | 5.15 | 5.24 | 3.26 | 3.97 | 5.75 | 9.97 | 4.25 | 4.63 | 1.81 | 2.68 | 1.17 | 3.05 | 50.93 |
| Summerfield | 5.88 | 5.53 | 3.47 | 4.10 | 6.09 | 5.60 | 3.78 | 2.84 | 1.39 | 2.28 | 1.31 | 3.19 | 45.46 |
| Thurman | 3.20 | 5.74 | 2.04 | 3.35 | 3.22 | 7.39 | 3.34 | 1.93 | 1.09 | 2.13 | 1.22 | 1.91 | 36.56 |
| *Tiffin | 2.97 | 5.39 | 3.01 | 3.30 | 7.78 | 4.47 | 1.80 | 3.41 | 1.53 | 2.24 | 3.42 | 2.81 | 42.13 |
| *Toledo | 3.01 | 5.97 | 2.13 | 3.19 | 4.76 | 4.31 | 3.67 | 1.55 | 2.61 | 1.83 | 4.34 | 3.05 | 40.42 |
| Toledo (St. John's College) | 2.65 | 5.64 | 2.11 | 2.81 | 4.10 | 4.40 | 3.29 | 1.45 | 2.24 | 1.45 | 3.79 | 2.60 | 36.53 |
| *Upper Sandusky | 2.14 | 5.11 | 3.28 | 4.63 | 6.68 | 5.32 | 1.45 | 8.30 | 2.08 | 2.23 | 2.90 | 2.80 | 46.92 |
| Urbana | 2.55 | 5.66 | 2.60 | 5.08 | 5.15 | 4.69 | 6.10 | 2.10 | 1.81 | 2.97 | 2.78 | 2.06 | 43.55 |
| Vickery | 2.28 | 5.64 | 2.25 | 2.62 | 5.76 | 7.67 | 5.50 | 3.44 | 0.95 | 1.57 | 4.37 | 2.42 | 44.47 |
| Warren | 4.60 | 4.32 | 2.79 | 5.05 | 2.33 | 3.33 | 3.51 | 2.47 | 1.24 | 0.80 | 2.62 | 3.06 | 36.12 |
| *Wauseon | 3.74 | 4.89 | 2.33 | 3.80 | 4.07 | 5.15 | 3.78 | 4.84 | 1.71 | 1.93 | 4.85 | 3.12 | 44.21 |
| *Waverly | 3.00 | 7.53 | 3.22 | 3.87 | 5.02 | 8.35 | 3.99 | 2.24 | 1.51 | 1.98 | 1.74 | 2.61 | 45.06 |
| Waynesville | 2.70 | 6.44 | 1.76 | 3.78 | 6.24 | 6.81 | 4.60 | 4.22 | 1.06 | 3.71 | 1.83 | 2.92 | 46.07 |
| Wellington | 2.54 | 4.69 | 3.51 | 4.26 | 4.15 | 5.98 | 4.32 | 3.81 | 2.84 | 1.71 | 3.40 | 1.59 | 42.80 |
| Willoughby | 2.76 | 3.93 | 2.26 | 4.39 | 2.49 | 2.97 | 2.77 | 2.31 | 2.30 | 1.07 | 2.95 | ..... | ..... |
| *Wooster | 2.95 | 5.22 | 3.02 | 3.92 | 4.06 | 6.44 | 4.05 | 5.21 | 1.73 | 2.16 | 2.91 | 2.55 | 44.22 |
| *Youngstown | 3.26 | 3.96 | 2.46 | 4.68 | 2.15 | 4.55 | 2.94 | 1.40 | 1.66 | 0.62 | 1.97 | 1.95 | 31.60 |
| *Zanesville | 4.04 | 5.27 | 3.06 | 3.38 | 6.11 | 8.43 | 2.33 | 3.78 | 1.89 | 2.27 | 1.23 | 2.56 | 44.55 |
| *Oklahoma.* | | | | | | | | | | | | | |
| Ada | 0.96 | 0.68 | ..... | 2.65 | 8.12 | 1.72 | 0.63 | 2.28 | ..... | ..... | ..... | ..... | ..... |
| Alva | 0.00 | 0.00 | 0.70 | 0.27 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 7.70 | ..... |
| Apache | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.21 | 2.05 | 2.29 | 5.56 | 0.88 | ..... |
| Arapaho | ..... | ..... | ..... | ..... | 5.91 | 4.43 | 0.57 | 0.77 | 0.90 | 2.79 | 8.76 | 0.73 | ..... |
| *Ardmore | 0.55 | 0.38 | 2.88 | 1.36 | 1.94 | 4.63 | 0.18 | 2.97 | 0.23 | 2.93 | 5.96 | 3.82 | 27.83 |
| Bartlesville | ..... | 1.79 | 2.97 | 1.87 | 9.14 | 2.29 | 5.99 | 0.37 | 1.19 | 2.81 | 5.01 | 1.28 | ..... |
| Beaver | 0.20 | 0.56 | 2.20 | 0.40 | 2.41 | 4.57 | 1.86 | 1.67 | 1.52 | 0.76 | 6.11 | 0.40 | 22.66 |
| Blackburn | 0.20 | 0.67 | 3.65 | 2.29 | 6.54 | 3.39 | 4.70 | 1.81 | 0.83 | 0.73 | 4.97 | 1.03 | 30.81 |
| Cache | 0.10 | 0.50 | 2.40 | 0.93 | 1.00 | 3.00 | 1.00 | 4.47 | 1.70 | 1.52 | 7.85 | 1.00 | 25.47 |
| *Calvin | 0.41 | 0.74 | 1.48 | 2.46 | 9.12 | 4.42 | 0.66 | 2.06 | 0.43 | 1.34 | 3.17 | 3.72 | 30.01 |
| *Chandler | 0.12 | ..... | 1.30 | 1.56 | 10.33 | 2.30 | 1.99 | 0.17 | 0.47 | 1.00 | 3.00 | 1.00 | ..... |
| Chattanooga | T. | 0.00 | 2.40 | 2.30 | 0.25 | 8.87 | 1.15 | 1.74 | 1.12 | 1.30 | 5.58 | 0.03 | 25.94 |
| Chickasha | 0.33 | 0.80 | 2.31 | 2.72 | 0.62 | 2.94 | 3.38 | 0.77 | 0.40 | 1.28 | 4.56 | 0.26 | 20.37 |
| Cloud Chief | 0.08 | 0.65 | 2.13 | 0.26 | 2.77 | 3.71 | 0.18 | 0.35 | 1.42 | 1.94 | 7.32 | 0.23 | 21.04 |
| Dacoma | 0.37 | 0.14 | 1.75 | 0.27 | 6.86 | 3.63 | 1.93 | 2.93 | 0.00 | 5.05 | 7.51 | 0.25 | 30.69 |
| *Durant | 0.66 | 0.57 | 3.86 | 0.88 | 3.79 | 2.39 | 0.76 | 0.87 | 0.26 | 1.69 | 2.65 | 3.88 | 22.26 |
| Eldorado | 0.00 | T. | 2.13 | T. | 1.09 | 3.82 | 0.25 | 0.54 | 0.28 | 1.70 | 5.09 | ..... | ..... |
| El Reno | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 5.64 | 0.29 | ..... |
| *Enid | 0.36 | 0.30 | 1.57 | 1.43 | 4.52 | 2.38 | 3.11 | 0.65 | 4.05 | 4.54 | 5.80 | 1.00 | 29.71 |
| Erick | 0.15 | 0.02 | 1.20 | 0.06 | 2.08 | 2.74 | 0.69 | 0.54 | 0.49 | 1.43 | 7.79 | 0.20 | 17.39 |
| Fairland | 0.97 | 0.65 | 1.58 | 2.69 | 8.22 | 3.90 | 3.02 | 0.50 | 0.62 | 2.08 | 7.63 | 3.06 | 34.92 |
| *Fort Gibson | 1.06 | 1.53 | 1.65 | 1.56 | 9.05 | 1.46 | 1.38 | 1.02 | 1.34 | 0.92 | 5.06 | 4.18 | 30.20 |
| Frederick | ..... | ..... | ..... | ..... | ..... | 4.56 | 0.09 | 0.71 | 1.31 | 1.55 | 6.66 | 0.80 | ..... |
| Gage | 0.05 | 0.48 | 0.63 | T. | 7.92 | 2.70 | 2.72 | 0.78 | 1.45 | 2.05 | 11.43 | 0.25 | 30.46 |
| Guthrie | 0.16 | 0.45 | 3.15 | 1.60 | ..... | 2.55 | 2.36 | 0.15 | 3.95 | 2.35 | 6.00 | 0.89 | ..... |
| Guyman | ..... | ..... | ..... | ..... | ..... | 6.53 | 1.02 | 1.13 | 1.53 | 4.13 | 4.14 | 1.60 | ..... |
| Harrington | 0.28 | 0.48 | 1.99 | T. | 2.01 | 4.10 | 3.51 | 1.03 | 2.12 | 1.55 | 8.72 | 0.11 | 25.90 |
| Hartshorne | 0.48 | 2.25 | 3.89 | 2.88 | 10.09 | 4.77 | 1.88 | 1.73 | 0.92 | 2.86 | 2.35 | 5.20 | 39.30 |
| Healdton | 0.20 | 0.06 | 2.69 | 1.11 | 2.19 | 3.93 | 1.38 | 2.86 | 0.05 | 1.52 | 5.52 | 0.65 | 22.16 |
| Hennessey | 0.35 | 0.55 | 1.36 | 1.54 | 4.46 | 3.70 | 4.40 | 0.52 | 0.82 | 3.92 | 4.86 | 0.77 | 27.25 |
| Hobart | 0.19 | 0.48 | 1.98 | 0.15 | 2.51 | 4.10 | 3.47 | 0.27 | 0.81 | 1.71 | 7.18 | 0.56 | 23.41 |
| *Holdenville | 0.52 | 0.80 | 1.60 | 2.02 | 8.71 | 2.85 | 0.00 | 2.40 | 1.11 | 0.91 | 3.53 | 3.85 | 28.30 |
| Hooker | 0.20 | 0.10 | 0.94 | 1.00 | 2.48 | 4.86 | 1.09 | 0.24 | 1.56 | 1.57 | 3.41 | 0.20 | 17.65 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Oklahoma*—Continued. | | | | | | | | | | | | | |
| Hurley | 0.50 | T. | 2.10 | 1.35 | 4.94 | 5.10 | 2.54 | 1.28 | 1.40 | 2.00 | 4.70 | 0.45 | 26.36 |
| Idabel | 0.50 | 3.35 | 2.30 | 3.16 | 5.04 | 2.68 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Jefferson | 0.20 | T. | 1.58 | 0.30 | 7.72 | 2.25 | 6.07 | 3.29 | 1.45 | 4.43 | 7.71 | 0.28 | 35.28 |
| Kenton | 0.10 | T. | 2.39 | 0.75 | 4.48 | 3.11 | 2.44 | 2.09 | 1.26 | 1.05 | 1.52 | 0.60 | 19.79 |
| Kingfisher | 0.11 | 1.14 | 2.51 | 1.35 | 2.54 | 4.63 | 1.65 | 1.24 | 1.61 | 2.41 | 6.12 | 0.36 | 25.67 |
| McAlester | 0.98 | 1.19 | 2.25 | 2.67 | 10.12 | 5.06 | 1.48 | ..... | ..... | ..... | 4.80 | 2.18 | ..... |
| McComb | ..... | 0.81 | 1.03 | 2.69 | 4.94 | 3.81 | 2.84 | 2.02 | 0.36 | 2.50 | 6.10 | 0.95 | ..... |
| *Mangum | ..... | ..... | ..... | 0.14 | 2.17 | 4.20 | 0.37 | 2.48 | 0.80 | 3.17 | 6.03 | 0.50 | ..... |
| *Marlow | 0.32 | 0.95 | 2.34 | 2.15 | 1.32 | 5.89 | 0.31 | 1.29 | 0.14 | 0.88 | 4.20 | 0.45 | 20.24 |
| Meeker | 0.31 | 1.21 | 0.80 | 1.72 | 7.78 | 2.09 | 1.87 | 0.02 | 0.56 | 1.10 | 5.02 | 0.15 | 21.83 |
| Muskogee | 0.96 | 1.50 | 1.34 | 1.52 | 7.91 | 1.94 | 1.25 | 0.44 | 0.71 | 2.10 | 5.24 | 3.67 | 28.58 |
| Mutual | 0.00 | 0.20 | 1.07 | 0.10 | ..... | 3.36 | 1.40 | 0.99 | 0.95 | 3.34 | 9.35 | 0.30 | ..... |
| Neola | 0.09 | 0.36 | 2.00 | 1.03 | 0.95 | 3.16 | 0.47 | 1.36 | 1.93 | 2.08 | 6.30 | 1.87 | 21.66 |
| Newkirk | 0.38 | 0.30 | 2.30 | 0.91 | 8.83 | 3.76 | 6.56 | 2.11 | 2.32 | 2.73 | 5.38 | 0.55 | 36.13 |
| Norman | 0.25 | 0.56 | 1.68 | 1.96 | 3.74 | 5.09 | 1.77 | 1.59 | 0.81 | 1.80 | 3.76 | 0.48 | 23.49 |
| Oakwood | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.01 | 6.87 | 0.30 | ..... |
| Okeene | 0.09 | 0.25 | ..... | ..... | ..... | ..... | 2.42 | 0.39 | 0.83 | 4.67 | 6.22 | 0.32 | ..... |
| *Oklahoma | 0.12 | 0.57 | 2.13 | 2.44 | 7.40 | 2.44 | 1.35 | 1.42 | 0.53 | 1.73 | 5.29 | 0.34 | 25.76 |
| Okmulgee | 0.23 | T. | 1.45 | 1.67 | 9.88 | 4.05 | 1.40 | 1.12 | 0.04 | 1.89 | 2.63 | 1.34 | 25.70 |
| Pauls Valley | 0.30 | 0.20 | 1.73 | 1.29 | 2.70 | 5.10 | 1.13 | 1.54 | 0.52 | 2.52 | 6.28 | ..... | ..... |
| Pawhuska | 0.10 | 1.01 | 3.06 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.62 | 1.25 | ..... |
| Perry | 0.35 | 0.59 | 1.51 | 2.29 | 6.29 | 2.67 | 5.09 | 2.77 | 1.19 | 2.86 | 6.28 | 1.34 | 33.23 |
| Ravia | 0.34 | 0.38 | 1.69 | 1.37 | 2.52 | 3.77 | 0.62 | 1.06 | 0.30 | 2.05 | 5.02 | 1.91 | 21.03 |
| Sac and Fox Agency | 0.20 | 0.50 | 0.95 | ..... | ..... | 1.39 | 4.11 | 0.18 | 0.43 | ..... | 4.32 | 0.80 | ..... |
| *Shawnee | 0.94 | 0.52 | 0.89 | 2.33 | 5.82 | 2.49 | 0.91 | 1.06 | 0.62 | 1.71 | 3.88 | ..... | ..... |
| Snyder | 0.03 | 0.45 | 1.80 | 0.56 | 1.43 | 4.03 | ..... | 0.99 | 0.48 | 1.42 | 6.99 | 0.52 | ..... |
| *Stillwater | 0.32 | 0.90 | 1.95 | 2.26 | 8.27 | 2.32 | 4.12 | 0.45 | 1.54 | 2.17 | 6.07 | 1.39 | 31.76 |
| Supply | T. | T. | 0.12 | 0.28 | 6.70 | 2.06 | 2.03 | 1.20 | 3.32 | 2.54 | 11.18 | 0.10 | 29.53 |
| *Tulsa | 0.51 | 1.30 | 2.21 | 2.33 | 9.80 | 2.85 | 4.12 | 0.95 | 0.25 | 1.55 | 4.36 | 2.43 | 32.66 |
| Vinita | 1.80 | 0.40 | 2.15 | 2.65 | 9.25 | 1.75 | 3.78 | 0.86 | 1.10 | 2.40 | 7.90 | 3.10 | 37.14 |
| Wagoner | 0.43 | 1.08 | 0.84 | 3.09 | 6.74 | 1.11 | 2.15 | 0.35 | 0.02 | 2.10 | 3.57 | 2.85 | 24.33 |
| Waukomis | 0.14 | 0.30 | 1.37 | 1.49 | 2.87 | 3.45 | 3.91 | 1.81 | 0.89 | 4.62 | 5.35 | 0.34 | 26.54 |
| *Weatherford | 0.15 | 0.35 | 1.10 | 0.80 | 3.84 | 1.58 | 0.82 | 0.66 | 3.08 | 3.15 | 7.44 | 0.11 | 23.08 |
| *Webbers Falls | 0.95 | 0.50 | 1.85 | 4.35 | 7.85 | 4.43 | 2.27 | 0.37 | 2.00 | 1.46 | 2.39 | 2.29 | 30.71 |
| Whiteagle | 0.11 | 0.54 | 1.62 | 1.49 | 9.44 | 3.19 | 5.11 | 2.76 | 0.26 | 2.36 | 4.72 | 0.64 | 32.24 |
| Woodward | 0.05 | 0.28 | 0.66 | 0.45 | 4.78 | 2.45 | 1.54 | 0.29 | 4.88 | 2.95 | 9.54 | 0.15 | 28.02 |
| *Oregon.* | | | | | | | | | | | | | |
| *Albany | 8.77 | 7.61 | 1.81 | 0.56 | 1.32 | 0.22 | 1.34 | 0.30 | 0.93 | 4.02 | 11.86 | 4.96 | 43.70 |
| Ana River | ..... | 0.78 | 0.76 | 0.09 | 0.16 | 0.70 | 0.46 | 0.00 | 0.65 | 0.47 | 2.99 | 0.72 | ..... |
| Ashland | 7.28 | 3.37 | 0.86 | 0.56 | 2.35 | 0.53 | 0.60 | 0.12 | 0.72 | 1.82 | 7.42 | 1.98 | 27.61 |
| Astoria | 12.88 | 16.84 | 4.19 | 0.21 | 4.91 | 1.10 | 2.41 | 0.68 | ..... | 5.99 | ..... | ..... | ..... |
| *Baker City | 1.61 | 1.35 | 0.86 | 0.25 | 1.47 | 1.66 | 0.64 | 0.01 | 1.59 | 0.57 | 1.90 | 1.64 | 13.55 |
| Bay City | 13.44 | 15.95 | 4.99 | 1.70 | 5.27 | 2.34 | 2.93 | 0.55 | 2.50 | 5.80 | 19.54 | 9.64 | 84.65 |
| Bear Creek | 2.16 | 1.58 | 0.97 | 0.17 | 0.84 | 0.54 | 1.55 | 0.00 | 1.06 | 0.84 | 2.44 | 1.35 | 13.50 |
| Big Basin | 2.50 | 0.10 | 0.12 | 0.05 | 0.17 | 0.07 | 2.05 | 0.00 | 1.95 | 1.30 | 2.39 | 1.40 | 12.10 |
| Birch Creek | ..... | 0.90 | 1.15 | 0.01 | 1.18 | 0.20 | 0.90 | 0.00 | 0.36 | 1.52 | 3.40 | 2.05 | ..... |
| Blackbutte | 10.72 | 10.37 | 4.04 | 1.08 | 2.58 | 0.65 | 2.01 | 0.18 | 1.79 | 5.90 | 13.30 | 6.15 | 58.77 |
| Blalock | 1.20 | 1.13 | 0.19 | 0.08 | 0.02 | 0.26 | 0.17 | 0.00 | 0.30 | 0.62 | 3.48 | 1.34 | ..... |
| Blue Mountain Sawmill | 5.18 | 5.95 | 3.62 | 3.56 | 2.95 | 1.25 | 2.54 | T. | 1.94 | 3.09 | 9.40 | 4.30 | 43.78 |
| Buckhorn Farm | 29.16 | 17.25 | 2.98 | 0.05 | 0.51 | 0.33 | 0.60 | T. | 1.55 | 9.72 | 21.60 | 11.87 | 95.62 |
| Burns | 3.86 | 1.52 | 0.64 | 0.10 | 0.51 | 0.23 | 0.07 | 0.00 | 0.90 | 1.01 | 2.95 | 2.29 | 14.08 |
| Canyon City | 3.00 | 1.27 | 1.37 | 0.54 | 1.30 | 0.84 | 0.61 | 0.00 | 0.63 | 0.48 | 1.81 | 1.38 | 13.23 |
| *Cascade Locks | 11.23 | 11.26 | 5.27 | 3.03 | 4.30 | 0.89 | 1.29 | 0.58 | 2.34 | 4.59 | 26.10 | 4.25 | 75.13 |
| Cascadia | 13.80 | 10.87 | 4.75 | 2.72 | 4.56 | 1.10 | 4.03 | 0.49 | 2.84 | 4.23 | 15.63 | 5.33 | 70.35 |
| Cazadero | 12.86 | 8.54 | 3.90 | 2.44 | 3.38 | 0.22 | 2.53 | 1.03 | 2.24 | 4.16 | 19.72 | 5.09 | 66.11 |
| Christmas Lake | 2.34 | 0.58 | 0.60 | 0.07 | 0.09 | 0.67 | 0.60 | 0.00 | 0.89 | 0.74 | 2.50 | 1.01 | 10.09 |
| Condon | 1.72 | 1.31 | 0.60 | 0.21 | 1.06 | 0.43 | 0.91 | 0.00 | 1.10 | 1.01 | 3.57 | 1.29 | 13.21 |
| Coquille River | 14.70 | 13.21 | 5.19 | 0.92 | 2.90 | 0.87 | 1.21 | 0.19 | 1.22 | 8.20 | 10.44 | 6.12 | 71.17 |
| Corvallis | 13.61 | 9.45 | 1.93 | 0.26 | 1.39 | 0.30 | 1.10 | 0.11 | 1.16 | 4.51 | 11.53 | ..... | ..... |
| Dayville | 2.48 | 0.73 | 0.66 | 0.08 | 0.89 | 0.54 | 1.12 | 0.00 | 0.79 | 0.44 | 1.08 | 1.09 | 9.90 |
| Doraville | 9.38 | 8.26 | 2.99 | 2.25 | 2.43 | 0.64 | 2.58 | 0.31 | 1.26 | 3.47 | 16.93 | 5.95 | 56.45 |
| Drain | 11.89 | 11.66 | 2.09 | 0.79 | 1.73 | 0.80 | 0.84 | 0.07 | 1.08 | 4.74 | 12.98 | 4.68 | 53.35 |
| Echo | 2.38 | 1.04 | 0.19 | 0.46 | 0.30 | 0.07 | 0.21 | 0.00 | 0.30 | 0.98 | 2.46 | 1.20 | 9.59 |
| Ella | 1.66 | 0.76 | 0.34 | 0.03 | 0.26 | 0.25 | 0.27 | 0.00 | 0.37 | 0.47 | 2.88 | 1.41 | 8.70 |
| *Eugene | 7.95 | 7.71 | 1.76 | 0.43 | 3.37 | 0.43 | 0.75 | 0.00 | 1.11 | 3.54 | 8.51 | 3.60 | 39.16 |
| Fairview | 18.54 | 15.82 | 6.11 | 1.71 | 4.83 | 0.90 | 0.85 | 0.61 | 1.67 | 7.77 | 22.31 | 8.34 | 89.46 |
| Falls City | 18.68 | 16.72 | 4.02 | 0.65 | 2.14 | 0.35 | 0.90 | T. | ..... | ..... | ..... | ..... | ..... |
| Forest Grove | 12.04 | 11.34 | 3.17 | 0.85 | 1.28 | 0.54 | 1.95 | ..... | 0.91 | 3.68 | 14.53 | 5.08 | ..... |
| Gardiner | 17.79 | 17.88 | 7.62 | 1.56 | 4.53 | 0.71 | 1.73 | 0.60 | 1.07 | 8.49 | 19.04 | 8.42 | 89.44 |
| Glendale | 15.75 | 4.95 | 1.70 | 0.85 | 0.36 | ..... | 0.25 | 0.00 | 0.70 | 2.75 | 7.80 | 2.90 | ..... |
| Glenora | 24.28 | 28.77 | 8.08 | 2.82 | 6.93 | 1.27 | 3.09 | 0.60 | 3.48 | 7.06 | 50.20 | 12.68 | 149.26 |
| Gold Beach | 24.73 | 23.86 | 9.75 | 0.51 | 2.99 | 0.73 | 1.14 | 0.25 | 1.71 | 11.85 | 25.46 | 10.76 | 113.74 |
| Granite | 3.38 | 2.78 | 1.55 | 1.25 | 2.73 | 1.10 | 0.97 | T. | 1.51 | 1.10 | 3.93 | 2.28 | 22.58 |
| Grants Pass | 15.30 | 7.32 | 1.09 | 0.14 | 0.29 | 0.78 | 0.29 | T. | 1.03 | 3.39 | 9.19 | 5.01 | 43.83 |
| Grass Valley | 2.56 | 1.03 | 0.68 | 0.10 | 0.49 | 0.98 | 0.10 | 0.02 | 0.45 | 0.87 | 3.34 | 1.14 | 11.77 |
| Greenleaf | 20.66 | 18.38 | 6.97 | 1.13 | 4.91 | 0.62 | 1.15 | 0.15 | 1.89 | 8.65 | 29.17 | 11.40 | 105.08 |
| Headworks | 12.43 | 9.71 | 5.54 | 4.52 | 5.55 | 0.67 | 4.93 | 1.05 | 3.41 | 5.49 | 21.60 | 6.64 | 81.54 |
| Heppner | 2.55 | 1.27 | 1.00 | 0.39 | 0.62 | 0.43 | 0.30 | 0.00 | 0.39 | 0.95 | 1.91 | ..... | ..... |
| Hermiston | 2.61 | 1.00 | 0.16 | 0.50 | 0.22 | 0.03 | 0.21 | 0.00 | 0.18 | 0.93 | 2.95 | 0.93 | 9.12 |
| Hood River | 4.19 | 4.50 | 1.20 | 0.46 | 0.27 | T. | 0.45 | T. | 0.45 | 1.75 | 11.75 | 3.46 | 28.48 |
| Huntington | 2.44 | T. | 0.50 | 0.00 | 0.87 | 0.20 | 0.80 | 0.00 | 1.20 | 1.78 | 1.92 | 1.79 | 11.50 |
| Ioex Mine | ..... | ..... | 0.60 | 1.74 | 2.72 | 1.47 | 1.01 | 0.07 | 2.53 | 1.32 | 4.83 | 5.48 | ..... |
| Jacksonville | 11.11 | 6.50 | 1.23 | 0.35 | 0.62 | 1.07 | 0.26 | 0.04 | 1.04 | 3.96 | 9.69 | 3.58 | 39.45 |
| Joseph | 3.69 | 1.60 | 1.03 | 0.57 | 2.31 | 1.50 | 2.64 | 0.00 | 0.66 | 1.13 | 3.82 | 2.18 | 21.73 |
| Kamela | 2.73 | 4.40 | 3.15 | 3.75 | 3.28 | 1.15 | 2.20 | 0.00 | 3.40 | 1.48 | 7.40 | 2.30 | 35.24 |
| Klamath Agency | 6.31 | 2.48 | 0.07 | T. | 0.35 | 0.42 | 0.35 | ..... | ..... | ..... | 5.74 | 2.60 | ..... |
| Klamath Falls | 5.70 | 1.99 | 0.25 | 0.01 | 0.47 | 0.42 | 0.32 | 0.28 | 0.37 | 1.29 | 5.30 | 1.27 | 17.67 |
| La Grande | 1.35 | 1.70 | 0.95 | 0.95 | 1.91 | 0.33 | 1.58 | 0.35 | 1.77 | 0.95 | 4.24 | 1.15 | 17.24 |
| Lillyglen | 11.44 | 8.18 | 1.87 | 0.85 | 2.46 | ..... | ..... | ..... | 0.55 | 3.55 | 11.48 | 3.54 | ..... |
| Madras | ..... | 1.29 | 0.32 | T. | 0.47 | 0.46 | 0.30 | T. | 2.03 | 0.55 | 2.17 | 2.40 | ..... |
| *Marshfield | 17.99 | 15.69 | 5.69 | 1.38 | 3.69 | 0.50 | 1.39 | 0.17 | 1.27 | 8.07 | 17.46 | 8.92 | 82.22 |
| McKenzie Bridge | 15.75 | 11.07 | 4.62 | 1.66 | 4.03 | 0.71 | 3.24 | 0.10 | 3.57 | 5.46 | 21.14 | 6.27 | 77.62 |
| *McMinnville | 9.47 | 8.43 | 1.88 | 0.31 | 1.31 | 0.22 | 1.56 | 0.01 | 1.48 | 2.44 | 14.38 | 6.27 | 47.76 |
| Meacham | ..... | ..... | 0.53 | 2.52 | 2.86 | 0.81 | 1.96 | 0.0 | 2.62 | 1.61 | 5.97 | 2.10 | ..... |
| Mikkalo | 1.87 | 0.95 | 0.40 | 0.25 | 0.26 | 0.28 | 0.75 | T. | 0.45 | 0.40 | 3.40 | 2.30 | 11.31 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Oregon*—Continued. | | | | | | | | | | | | | |
| Miremonte Farm | 9.49 | 7.89 | 2.22 | 0.66 | 2.01 | 0.31 | 1.67 | 0.21 | 1.23 | 2.35 | 12.85 | 4.31 | 45.20 |
| Monroe | 12.68 | 10.30 | 2.20 | 0.26 | 0.74 | 0.25 | 0.66 | 0.21 | 0.83 | 4.91 | 15.45 | 6.61 | 55.11 |
| Mountain Park | 15.37 | 9.97 | 3.90 | 1.55 | 2.33 | 0.10 | 0.58 | T. | 3.41 | 4.00 | 22.83 | 6.31 | 70 35 |
| Mount Angel | 10.72 | 8.79 | ..... | 1.28 | 1.90 | 0.24 | 3.09 | 0.32 | 1.49 | 1.95 | 16.54 | 5.63 | ..... |
| Newport | 11.83 | 19.47 | 4.86 | 1.01 | 6.20 | 1.00 | 1.86 | 0.16 | 1.32 | 4.33 | 18.01 | 4.42 | 74.47 |
| Ochoco | 3.00 | 2.01 | 0.79 | 0.32 | 0.71 | 0.61 | 1.00 | 0.00 | 1.71 | 1.16 | 4.43 | 2.56 | 18.30 |
| Paisley | 2.60 | 0.55 | 1.02 | T. | 0.91 | 0.81 | 0.23 | 0.06 | 0.81 | 0.98 | 2.06 | 0.77 | 10.80 |
| Pendleton | 2.22 | 1.59 | 0.69 | 0.67 | 0.51 | 0.28 | 0.35 | 0.00 | 0.84 | 1.22 | 3.58 | 1.91 | 13.86 |
| Pilot Rock | 1.65 | 1.74 | 0.94 | 0.59 | 0.83 | 0.38 | 0.36 | 0.02 | 0.77 | 0.59 | 2.27 | 0.98 | 11.12 |
| Pompeii | 13.57 | 11.06 | 6.36 | 6.17 | 5.09 | 1.01 | 4.72 | 0.83 | 5.43 | 6.01 | 24.75 | 8.39 | 93.30 |
| *Portland | 9.29 | 7.03 | 2.35 | 0.89 | 1.79 | 0.17 | 2.26 | 0.05 | 0.95 | 2.01 | 12.49 | 4.47 | 43.75 |
| Post | 2.25 | 1.36 | 0.78 | 0.12 | 0.92 | 0.85 | 0.68 | 0.00 | 1.06 | 0.85 | 2.27 | 0.91 | 12.05 |
| Power Plant | 3.15 | 2.66 | 2.21 | 1.40 | 1.90 | 0.90 | 1.78 | T. | 0.88 | 1.38 | 4.69 | 2.16 | 23.11 |
| P Ranch | ..... | 1.25 | 0.53 | 0.17 | 0.23 | 0.76 | 0.53 | 0.15 | 2.22 | 1.53 | 3.70 | 0.61 | ..... |
| Prineville | 2.72 | 0.82 | T. | 0.00 | 0.42 | 0.55 | 0.61 | 0.00 | 1.54 | 0.56 | 2.25 | ..... | ..... |
| Prospect | 15.08 | 7.94 | 2.67 | 0.45 | 2.14 | 0.18 | 1.31 | 0.00 | 2.00 | 4.18 | 18.38 | 3.96 | 58.29 |
| Range | 3.20 | 3.09 | 1.70 | 0.86 | 2.46 | 1.14 | 1.92 | 0.00 | 1.67 | 1.45 | 5.55 | 1.20 | 24.24 |
| Ray Creek | ..... | 1.09 | 0.60 | 0.09 | 1.26 | 0.75 | 0.47 | 0.00 | 0.58 | 0.55 | 2.61 | ..... | ..... |
| Richland | 1.50 | 1.26 | 0.05 | 0.25 | 1.50 | 1.10 | ..... | 0.00 | 0.41 | 0.44 | 1.53 | 1.61 | ..... |
| Riverdale | ..... | 0.64 | 0.51 | ..... | 2.13 | 0.90 | 0.45 | 0.00 | 0.24 | 0.80 | 4.48 | 2.03 | ..... |
| Riverside | 2.43 | 0.67 | 0.34 | 0.05 | 1.46 | 0.28 | 0.05 | 0.00 | 1.05 | 0.67 | 2.18 | 1.58 | 10.76 |
| *Roseburg | 10.38 | 7.22 | 1.62 | 0.37 | 1.13 | 0.70 | 0.48 | T. | 0.71 | 4.07 | 8.70 | 3.68 | 39.06 |
| *Salem | 8.28 | 6.61 | 1.51 | 0.51 | 1.02 | 0.18 | 1.96 | 0.02 | 0.90 | 3.24 | 10.56 | 4.80 | 39.59 |
| Seneca | 3.04 | 1.39 | 0.93 | 0.27 | 0.87 | 0.77 | 0.41 | 0.00 | 0.52 | 0.62 | 2.73 | 1.55 | 13.10 |
| Silver Lake | 3.50 | 0.98 | 1.07 | 0.10 | 0.34 | 1.43 | 0.43 | 0.00 | 0.89 | 0.65 | 3.28 | 0.70 | 13.37 |
| *Siskiyou | 14.81 | 7.68 | 1.19 | 0.53 | 1.45 | 0.84 | 1.44 | 0.44 | 1.02 | 4.13 | 9.56 | 4.64 | 47.73 |
| Sisters | 5.25 | 2.77 | 0.33 | 0.01 | 1.25 | 0.63 | 0.41 | 0.00 | 1.70 | 0.94 | 7.01 | 3.35 | 23.65 |
| Stafford | 11.62 | 7.98 | 2.72 | 1.00 | 2.27 | 0.38 | 2.08 | 0.26 | 0.56 | 3.51 | 15.95 | 5.48 | 53.81 |
| Summit Prairie | 4.72 | 1.96 | 0.66 | 0.23 | 1.31 | 0.36 | 1.98 | ..... | 1.29 | 1.18 | 4.26 | 2.80 | ..... |
| *The Dalles | 4.06 | 1.41 | 0.33 | 0.08 | 0.13 | 0.13 | 0.39 | 0.00 | 1.05 | 0.83 | 4.55 | 3.09 | 16.05 |
| The Heads | 25.91 | 20.29 | 9.11 | 1.40 | 4.19 | 1.39 | 1.57 | 0.28 | 1.81 | 10.76 | 31.88 | 10.05 | 118.64 |
| Tin Roof | ..... | ..... | 1.30 | 0.84 | 1.87 | 0.98 | 0.72 | 0.01 | 1.67 | 1.20 | ..... | ..... | ..... |
| Toledo | 12.40 | 15.49 | 5.65 | 1.10 | 6.07 | 0.80 | 2.11 | 0.25 | 2.05 | 4.95 | 22.51 | 8.00 | 81.38 |
| Trask | ..... | ..... | 7.02 | 2.89 | 6.48 | 1.29 | 3.89 | 0.53 | 3.68 | ..... | ..... | 12.93 | ..... |
| *Umatilla | 1.86 | 0.89 | 0.13 | 0.53 | 0.17 | 0.04 | 0.26 | T. | 0.11 | 0.56 | 1.77 | 1.14 | 7.46 |
| Unity | 1.75 | 0.92 | 0.48 | 0.17 | 1.89 | 0.61 | 0.40 | 0.00 | 3.36 | 0.48 | 2.71 | 2.83 | 15.60 |
| Vale | 2.55 | 1.04 | 0.29 | 0.16 | 0.81 | 0.29 | 0.13 | T. | 0.94 | 0.52 | 1.21 | 1.45 | 9.39 |
| Wallowa | 2.11 | 1.01 | 0.93 | 0.38 | 1.45 | 1.79 | 2.42 | 0.07 | 1.23 | 1.08 | 5.02 | 1.42 | 18.91 |
| Wamic | 3.62 | 3.14 | 0.19 | T. | 0.72 | 0.70 | ..... | ..... | ..... | 1.08 | 7.90 | 1.69 | ..... |
| Warmspring | 3.12 | 0.94 | 0.21 | 0.00 | 0.74 | 0.87 | 0.22 | 0.00 | 1.15 | 0.62 | 2.96 | 1.93 | 12.76 |
| Wasco | 3.00 | 1.41 | 0.51 | 0.08 | 0.14 | 0.51 | 0.22 | T. | 0.62 | 1.04 | 4.13 | 2.20 | 13.86 |
| Wenaha Springs | 6.67 | 4.50 | 2.35 | 2.61 | 2.58 | 0.90 | 2.15 | 0.00 | 1.80 | 3.60 | ..... | ..... | ..... |
| Weston | 3.93 | 2.23 | 2.46 | 1.88 | 0.86 | 0.61 | 0.94 | T. | 0.88 | 1.65 | 3.92 | 2.83 | 22.19 |
| Williams | 17.64 | 10.24 | 1.41 | 0.29 | 0.20 | 0.87 | 0.39 | ..... | 1.19 | ..... | 17.05 | 4.92 | ..... |
| Yonna | 6.31 | 2.48 | 0.77 | 0.06 | 0.64 | 0.75 | 0.51 | 0.20 | 1.38 | 1.00 | 3.99 | 1.02 | 19.11 |
| *Pennsylvania.* | | | | | | | | | | | | | |
| Aleppo | 3.29 | 5.06 | 2.81 | 4.10 | 3.96 | 4.58 | 4.50 | 2.87 | 1.30 | 2.19 | 1.07 | 1.92 | 37.65 |
| Altoona | 2.04 | 3.94 | 2.52 | 5.34 | 2.48 | 3.71 | 2.37 | 1.17 | 2.47 | 2.71 | 0.27 | 3.10 | 32.12 |
| *Ansonia | 2.19 | 3.18 | 1.55 | 5.90 | 1.93 | 5.01 | 1.29 | 1.06 | 2.74 | 2.19 | 0.87 | 1.86 | 29.77 |
| Baldwin | 3.59 | 5.42 | 3.46 | ..... | 2.39 | 6.13 | 2.79 | 1.87 | 1.58 | 2.55 | 1.49 | 3.27 | ..... |
| *Beaver Dam | 3.02 | 5.46 | 3.44 | 6.03 | 2.76 | 7.73 | 3.57 | 1.11 | 0.86 | 1.70 | 1.25 | 2.53 | 39.46 |
| Bellefonte | 2.47 | 4.62 | 2.05 | 7.21 | 2.82 | 6.98 | 1.34 | 2.47 | 2.90 | 2.44 | 0.50 | 1.19 | 35.99 |
| Browers Lock | 2.17 | 4.42 | 3.59 | 4.47 | 2.70 | 3.93 | 1.85 | 1.40 | 1.98 | 1.40 | 1.78 | 4.59 | 34.28 |
| California | ..... | ..... | ..... | ..... | 1.98 | ..... | ..... | ..... | 1.35 | 3.00 | ..... | ..... | ..... |
| Center Hall | 2.31 | 4.59 | 2.18 | 6.65 | 2.74 | 6.12 | 1.53 | 2.58 | 2.46 | 2.39 | 0.91 | 3.10 | 36.56 |
| *Clarion | 3.64 | 4.00 | 2.94 | 6.44 | 2.25 | 5.73 | 2.21 | 0.12 | ..... | ..... | ..... | ..... | ..... |
| Claysville | 3.41 | 5.58 | 3.05 | 4.52 | 3.20 | 3.50 | 3.43 | 2.17 | 1.47 | 2.12 | 0.77 | 2.23 | 35.45 |
| *Clearfield | 2.57 | 5.42 | 3.32 | 6.84 | ..... | 3.07 | 2.52 | 2.11 | 1.25 | 3.26 | 0.98 | 3.54 | ..... |
| Coatesville | 3.21 | 4.46 | 3.97 | 3.43 | 3.10 | 3.52 | 1.16 | 0.46 | 2.59 | 1.77 | 1.97 | 8.50 | 38 14 |
| *Confluence | 3.04 | 4.30 | 2.90 | 5.86 | 2.80 | 5.08 | 2.87 | 6.30 | 2.68 | 3.06 | 0.72 | 3.34 | 42.95 |
| *Davis Island Dam | 2.86 | 4.70 | 3.49 | 4.95 | 2.47 | 3.80 | 1.07 | 1.87 | 0.64 | 1.81 | 0.83 | 2.81 | 31.30 |
| Derry Station | 2.54 | 4.53 | 4.03 | 6.31 | 2.86 | 3.37 | 2.50 | 3.21 | 1.55 | 2.73 | 0.99 | 2.24 | 36.86 |
| Doylestown | 4.03 | 4.81 | 4.52 | 5.46 | 3.91 | 3.62 | 1.89 | 2.56 | 3.06 | 1.28 | 3.33 | 4.52 | 42.99 |
| Drifton | 3.62 | 6.01 | 3.62 | 8.42 | 3.82 | 4.40 | 2.04 | 1.76 | 3.93 | 3.98 | 1.90 | 3.86 | 47.36 |
| Dushore | 1.66 | 4.13 | 2.52 | 4.64 | 2.40 | 5.59 | 1.25 | 1.64 | 2.18 | ..... | ..... | ..... | ..... |
| Easton | 3.72 | 6.01 | 3.02 | 6.91 | 2.82 | 3.77 | 3.02 | 1.51 | 3.07 | 1.04 | ..... | ..... | ..... |
| Emporium | 2.88 | 5.73 | 2.79 | 6.73 | 3.59 | 5.75 | 1.95 | 0.96 | 1.98 | 2.14 | 1.50 | 2.45 | 38.45 |
| Ephrata | 2.31 | 4.68 | 2.10 | 4.22 | 2.72 | 4.29 | 2.70 | 0.67 | 4.64 | 2.33 | 1.48 | 3.84 | 35.98 |
| *Erie | 2.44 | 4.85 | 2.54 | 5.15 | 2.36 | 2.58 | 2.46 | 1.76 | 3.70 | 1.59 | 2.60 | 1.85 | 33.88 |
| Everett | 2.02 | 3.36 | 1.33 | 4.44 | 2.08 | 3.61 | 1.74 | 3.90 | 1.98 | 2.73 | 0.70 | 3.96 | 31.85 |
| Forks of Neshaminy | 2.71 | 5.00 | 3.14 | 5.51 | 3.34 | 4.01 | 2.48 | 3.47 | 2.87 | 1.04 | 3.24 | 5.06 | 41.87 |
| *Franklin | 3.22 | 5.70 | 3.09 | 5.93 | 3.22 | 3.92 | 3.35 | 2.58 | 1.42 | 1.32 | 1.68 | 2.42 | 37.83 |
| *Freeport | 3.72 | 5.99 | 4.02 | 6.35 | 3.11 | 3.25 | 2.82 | 1.98 | 1.76 | 2.16 | 1.34 | 2.99 | 39.49 |
| George School | 2.32 | 4.91 | 3.39 | 4.83 | 2.23 | 4.02 | 1.25 | 3.65 | 2.78 | 0.95 | 3.60 | 4.90 | 38.73 |
| Gettysburg | 2.59 | 4.51 | 3.64 | 3.62 | 2.30 | 4.05 | 0.85 | 2.11 | 4.90 | 2.37 | 0.84 | 4.24 | 36.02 |
| Girardville | 3.79 | 6.95 | 4.64 | 7.56 | 3.59 | 3.94 | 3.36 | 1.60 | 2.52 | 4.48 | 1.64 | 4.04 | 48.11 |
| Gordon | 3.11 | 7.91 | 4.76 | 7.32 | 4.35 | 3.41 | 2.74 | 0.48 | 2.55 | 3.75 | 1.58 | 4.38 | 46.34 |
| *Greensboro | 3.42 | 4.12 | 2.30 | 4.72 | 2.95 | 6.44 | 1.94 | 2.41 | 0.83 | 2.72 | 0.69 | 2.02 | 34.56 |
| Greensburg | 3.10 | 3.99 | 3.50 | 5.58 | 2.84 | 4.49 | 3.06 | 2.39 | 2.28 | 3.14 | 0.62 | 2.05 | 37.04 |
| Greenville | 4.00 | 4.52 | 3.19 | 4.95 | 3.54 | 5.58 | 1.18 | 1.39 | 1.30 | 2.11 | 2.49 | 2.48 | 36.73 |
| Grove City | 3.62 | 4.84 | 3.19 | 5.96 | 3.57 | 4.45 | 2.68 | 1.72 | 0.91 | 1.26 | 1.39 | 2.36 | 35.95 |
| Hamburg | 1.88 | 9.86 | 3.56 | 6.96 | 5.52 | 5.62 | 1.53 | 1.61 | 3.43 | 4.60 | 1.03 | 3.19 | 48.79 |
| Hanover | 2.07 | 4.57 | 4.03 | 3.57 | 2.34 | 3.68 | 0.77 | 1.37 | 1.85 | 2.23 | 0.70 | 2.81 | 29.99 |
| *Harrisburg | 1.83 | 4.13 | 2.82 | 2.67 | 2.40 | 4.26 | 0.86 | 0.81 | 2.62 | 2.37 | 0.41 | 2.98 | 28.16 |
| *Herrs Island Dam | 2.96 | 4.68 | 3.48 | 5.04 | 2.16 | 5.59 | 1.55 | 2.90 | 0.91 | 2.34 | 0.85 | 2.33 | 34.79 |
| *Huntingdon | 2.17 | 4.80 | 2.04 | 5.41 | 2.15 | 5.23 | 1.65 | 3.49 | 0.95 | 2.41 | 0.27 | 3.73 | 34.30 |
| Hyndman | 2.58 | 2.45 | 1.71 | 5.36 | 1.86 | 5.41 | 2.26 | 3.84 | 1.10 | 4.25 | 0.26 | 2.85 | 33.93 |
| Indiana | 2.89 | 4.97 | 4.90 | 6.21 | 2.93 | 5.93 | 3.41 | 1.95 | 2.22 | 2.21 | 1.08 | 3.14 | 41.84 |
| Irwin | 2.12 | 4.02 | 3.19 | 5.71 | 2.66 | 4.90 | 1.68 | 3.48 | 2.33 | 3.14 | 0.70 | 1.79 | 35.72 |
| *Johnstown | 3.04 | 5.31 | 4.06 | 6.70 | 1.97 | 4.22 | 3.10 | 3.50 | 2.96 | 3.56 | 1.06 | 3.70 | 43.18 |
| Kennett Square | 3.43 | 4.74 | 3.88 | 2.67 | 3.82 | 3.40 | 0.91 | ..... | 3.03 | 1.09 | 1.71 | 6.59 | ..... |
| Lansdale | 2.94 | 4.70 | 3.38 | 5.08 | 3.40 | 3.39 | 2.39 | 2.03 | 2.68 | 0.85 | 2.48 | 4.26 | 37.58 |
| Lawrenceville | 2.41 | 2.40 | 1.89 | 4.90 | 3.28 | 5.50 | 2.30 | 2.74 | 2.88 | 2.05 | 1.18 | 1.75 | 33.28 |
| Lebanon | 2.85 | 5.41 | 3.32 | 3.86 | 2.96 | 3.27 | 0.87 | 0.33 | 1.50 | 2.48 | 1.05 | 3.75 | 31.65 |
| Le Roy | 2.35 | 3.55 | 2.48 | 5.70 | 2.61 | 4.26 | 1.02 | 2.71 | 2.17 | 2.01 | 1.24 | 2.70 | 32 80 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Pennsylvania*—Continued. | | | | | | | | | | | | | |
| Lewisburg | 2.47 | 4.86 | 2.53 | 6.44 | 2.37 | 3.10 | 1.00 | 1.63 | 2.12 | 2.16 | 0.76 | 4.19 | 33.63 |
| Lock Haven | 2.19 | 4.39 | 2.68 | 6.04 | 4.33 | 5.22 | 1.27 | 1.85 | 2.41 | 2.39 | 0.66 | 2.86 | 36.29 |
| *Lock No. 4 | 2.59 | 5.32 | 3.52 | 5.40 | 3.09 | 5.38 | 3.05 | 5.53 | 1.46 | 2.59 | 0.61 | 1.67 | 40.21 |
| Lycippus | 2.90 | 4.25 | 3.35 | 5.95 | 2.64 | 4.60 | 3.50 | 3.50 | 1.77 | 3.28 | 1.05 | 3.05 | 39.84 |
| Marion | 3.93 | 4.43 | 2.47 | 3.18 | 2.42 | 5.56 | 1.24 | 2.45 | 1.12 | 2.98 | 0.46 | 3.65 | 32.88 |
| *Mauch Chunk | 4.01 | 6.90 | 3.46 | 5.76 | 2.60 | 3.19 | 2.46 | 0.94 | 4.41 | 2.61 | 1.77 | 4.76 | 42.87 |
| Mifflintown | 2.75 | 3.58 | 2.13 | 5.33 | 1.77 | 5.65 | 1.81 | 1.58 | 1.70 | 3.24 | 0.38 | 2.96 | 32.88 |
| Milford | 3.27 | 5.98 | 3.20 | 6.70 | 2.57 | 1.89 | 4.33 | 2.33 | 3.45 | 0.70 | 1.83 | 4.30 | 40.55 |
| Montrose | 3.93 | 4.17 | 1.91 | 3.56 | 3.93 | 5.08 | 1.63 | 2.25 | 1.58 | 1.22 | 1.32 | 2.00 | 32.58 |
| Mountain House | ..... | ..... | 1.67 | 4.81 | 2.37 | 4.89 | 3.19 | 2.89 | 1.37 | 3.60 | 0.51 | 2.75 | ..... |
| New Germantown | 2.77 | 3.02 | 1.74 | 4.26 | 2.66 | 3.83 | 1.31 | 2.87 | 2.44 | ..... | 0.40 | 3.18 | ..... |
| Ottsville | 3.37 | 5.51 | 3.29 | 5.27 | 2.96 | 3.70 | 2.63 | 1.72 | 1.78 | 1.26 | 3.97 | 3.96 | 39.51 |
| *Parkers Landing | 4.18 | 5.52 | 4.62 | 7.28 | 3.00 | 5.64 | 2.96 | 1.82 | 1.94 | 2.56 | 1.60 | 2.84 | 43.96 |
| *Philadelphia (1) | 2.52 | 4.62 | 2.92 | 4.49 | 2.67 | 2.26 | 2.19 | 1.95 | 3.55 | 0.83 | 3.50 | 5.86 | 37.36 |
| Philadelphia (2) | 2.71 | 5.43 | 3.70 | 4.10 | 3.01 | 2.39 | 2.31 | 3.02 | 3.84 | 0.94 | 3.23 | ..... | ..... |
| Philadelphia (3) | 3.19 | 5.49 | 3.71 | 4.84 | 3.21 | 2.65 | 2.97 | 3.04 | 3.65 | 0.81 | 3.42 | 6.18 | 43.16 |
| *Pittsburg | 3.10 | 4.47 | 3.14 | 5.23 | 1.51 | 4.92 | 1.22 | 3.33 | 0.76 | 2.36 | 0.84 | 2.30 | 33.18 |
| Pocono Lake | 1.58 | 6.00 | 3.60 | 6.47 | 2.63 | 5.41 | 3.23 | 1.61 | 3.95 | 1.98 | 1.54 | 3.67 | 41.67 |
| Point Pleasant | 3.16 | 4.99 | 3.37 | 5.52 | 2.99 | 3.04 | 2.15 | 3.41 | 2.56 | 1.05 | 3.29 | 5.08 | 40.61 |
| Pottsville | 3.18 | 5.03 | 3.20 | 5.33 | 3.28 | 3.87 | 2.43 | 2.34 | 2.88 | 3.48 | 1.36 | 4.32 | 38.70 |
| *Reading | 2.99 | 5.53 | 3.66 | 4.18 | 3.62 | 3.23 | 1.22 | 0.33 | 3.08 | 2.59 | 1.58 | 5.32 | 37.33 |
| *Renovo | 2.04 | 3.20 | 2.02 | 6.79 | 1.90 | 6.30 | 1.18 | 2.12 | 2.05 | 2.21 | 0.83 | 2.66 | 33.30 |
| Saegerstown | 3.30 | 4.79 | 2.89 | 5.49 | 3.88 | 7.97 | 2.64 | 2.82 | 2.18 | 1.73 | ..... | 2.36 | ..... |
| St. Marys | 3.04 | 6.89 | 2.65 | 5.09 | 3.07 | 4.38 | 3.05 | 0.38 | 2.11 | 3.04 | 2.29 | 2.97 | 38.96 |
| *Saltsburg | 2.99 | 4.71 | 3.88 | 6.04 | 2.81 | 4.42 | 1.66 | 6.42 | 2.86 | 2.74 | 1.14 | 2.59 | 42.26 |
| *Scranton | 2.80 | 4.16 | 2.68 | 5.20 | 4.28 | 5.85 | 2.23 | 1.22 | 1.80 | 1.86 | 1.33 | 3.39 | 36.80 |
| Selsholtzville | 3.20 | 6.10 | 4.26 | 4.96 | 2.96 | 2.46 | 1.67 | 1.10 | 2.27 | 1.31 | 1.40 | 5.66 | 37.24 |
| *Selinsgrove | 3.05 | 5.25 | 2.41 | 6.50 | 2.83 | 4.99 | 1.12 | 1.74 | 1.89 | 2.05 | 1.21 | 2.64 | 35.68 |
| Shawmont | 2.72 | 5.34 | 3.60 | 3.96 | 3.42 | 3.52 | 1.68 | 2.80 | 3.72 | 0.99 | 2.38 | 4.73 | 38.86 |
| Skidmore | 4.25 | 4.35 | 2.35 | 5.25 | 2.00 | 5.50 | 1.95 | 1.20 | 0.80 | 0.95 | 1.50 | 2.14 | 32.24 |
| Smiths Corners | 2.63 | 5.17 | 3.11 | 5.52 | 3.47 | 3.48 | 1.97 | 3.21 | 2.21 | 1.13 | 3.50 | 4.21 | 39.61 |
| Somerset | 3.63 | 4.87 | 3.68 | 4.62 | 1.97 | 5.52 | 2.44 | 5.22 | 2.41 | 2.36 | 1.35 | 3.69 | 41.76 |
| *Springdale | 3.16 | 4.91 | 3.83 | 5.34 | 2.48 | 5.28 | 2.19 | 2.14 | 1.56 | 2.35 | 1.03 | 2.53 | 36.80 |
| Spring Mountain | 3.28 | 4.32 | 3.23 | 4.54 | 3.54 | 2.95 | 1.97 | 0.46 | 1.85 | 1.18 | 1.51 | 5.85 | 34.68 |
| State College | 2.18 | 4.56 | 1.89 | 6.97 | 3.15 | 8.96 | 2.31 | 4.10 | 2.89 | 3.06 | 0.36 | 2.92 | 43.35 |
| *Towanda | 1.85 | 3.11 | 1.84 | 5.23 | 2.50 | 2.90 | 1.01 | 2.22 | 1.81 | 2.50 | 0.86 | 2.08 | 27.91 |
| Uniontown | 3.70 | 4.13 | 3.04 | 5.73 | 3.22 | 5.65 | 4.03 | 5.70 | 1.33 | 3.44 | 0.64 | 2.43 | 43.04 |
| *Warren | 3.57 | 4.56 | 3.36 | 6.44 | 3.46 | 5.82 | 2.78 | 3.32 | 1.68 | 2.96 | 2.40 | 2.54 | 42.89 |
| Wellsboro | 1.96 | 3.52 | 1.79 | 6.13 | 2.62 | 4.61 | 0.96 | 1.51 | 2.64 | 2.21 | 0.94 | 1.96 | 30.85 |
| West Chester | 3.21 | 5.04 | 4.20 | 3.16 | 2.63 | 3.49 | 0.96 | 1.80 | 3.02 | 1.11 | 2.50 | 4.51 | 35.63 |
| *West Newton | 3.32 | 5.00 | 3.16 | 5.32 | 2.81 | 3.30 | 2.57 | 7.76 | 1.34 | 2.99 | 0.65 | 2.47 | 40.69 |
| *Wilkes-Barre | 2.88 | 4.23 | 2.47 | 5.27 | 3.19 | 4.08 | 1.24 | 1.26 | 1.84 | 2.57 | 0.88 | 3.16 | 33.07 |
| *Williamsport | 2.51 | 3.90 | 2.15 | 8.22 | 2.65 | 3.85 | 0.75 | 1.40 | 1.84 | 2.05 | 0.59 | 3.31 | 33.22 |
| *Rhode Island.* | | | | | | | | | | | | | |
| *Block Island | 3.95 | 5.70 | 2.60 | 7.97 | 3.26 | 1.43 | 0.93 | 1.71 | 3.68 | 1.74 | 3.15 | 3.10 | 39.22 |
| Bristol | 5.53 | 5.67 | 3.04 | 5.73 | 2.70 | 1.43 | 0.58 | 2.40 | 4.32 | 1.54 | 3.46 | 3.23 | 39.63 |
| Kingston | 6.44 | 6.68 | 3.38 | 6.56 | 4.92 | 2.93 | 1.51 | 2.39 | 4.62 | 2.28 | 3.97 | 4.04 | 49.62 |
| *Narragansett Pier | 5.07 | 6.68 | 2.71 | 6.35 | 4.06 | 2.02 | 1.16 | 2.16 | 3.85 | 2.03 | 4.36 | 2.65 | 43.10 |
| Pawtucket | 3.36 | 6.03 | 3.55 | 5.59 | 2.13 | 1.76 | 1.26 | 2.34 | 3.39 | 1.25 | 4.00 | 3.93 | 38.59 |
| *Providence | 3.06 | 5.80 | 2.86 | 5.07 | 2.09 | 1.61 | 0.58 | 2.50 | 3.28 | 1.25 | 2.95 | 2.70 | 33.75 |
| *South Carolina.* | | | | | | | | | | | | | |
| Aiken | 2.01 | 5.91 | 5.65 | 1.72 | 3.73 | 4.27 | 2.81 | 8.00 | 3.10 | 2.64 | 0.50 | 2.20 | 42.54 |
| *Allendale | 1.45 | 4.98 | 5.81 | 5.45 | 3.14 | 9.25 | 3.79 | 3.44 | 4.46 | 1.22 | 0.50 | 3.04 | 46.53 |
| *Anderson | 3.12 | 6.87 | 6.40 | 1.70 | 5.21 | 12.42 | 5.13 | 2.45 | 5.96 | 2.49 | 0.80 | 3.33 | 55.88 |
| *Batesburg | 1.25 | 6.08 | 4.85 | 1.23 | 3.94 | 6.64 | 5.70 | 4.88 | 3.43 | 3.41 | 0.95 | 3.10 | 45.46 |
| Beaufort | 0.66 | 2.30 | 6.73 | 2.47 | 2.63 | 1.77 | 5.86 | 9.62 | 3.61 | 0.17 | 0.50 | 2.87 | 39.39 |
| Bennettsville | ..... | ..... | ..... | 2.48 | 1.87 | 5.48 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *Blackville | 1.27 | 4.15 | 4.40 | 4.01 | 3.08 | 7.97 | 3.83 | 3.34 | 6.91 | 2.40 | 0.51 | 2.74 | 44.61 |
| *Blairs | 1.34 | 4.20 | 4.40 | 0.68 | 3.58 | 9.02 | 8.54 | 2.14 | 4.00 | 1.50 | 0.90 | 2.84 | 43.14 |
| Bowman | 1.02 | 2.78 | 5.89 | 4.69 | 2.87 | 6.32 | 4.17 | 4.16 | 3.65 | 1.37 | 0.96 | 2.41 | 40.29 |
| *Calhoun Falls | 2.19 | 7.42 | 5.80 | 1.89 | 5.56 | 7.38 | 3.85 | 3.74 | 3.57 | 3.04 | 1.06 | 2.94 | 48.44 |
| *Camden (1) | 0.98 | 4.13 | 3.51 | 1.78 | 5.01 | 6.45 | 5.06 | 4.66 | 2.32 | 2.35 | 0.43 | 2.57 | 39.25 |
| Camden (2) | 1.26 | 5.38 | 3.56 | 2.06 | 3.70 | 8.00 | 3.66 | 3.02 | 3.14 | 4.48 | 0.20 | 2.28 | 40.74 |
| *Catawba | 1.08 | 4.60 | 4.00 | 2.15 | 6.88 | 10.76 | 3.02 | 6.84 | 2.52 | 1.58 | 0.36 | 3.00 | 46.79 |
| *Chappells | 1.02 | 5.80 | 4.68 | 1.10 | 3.72 | 2.83 | 3.64 | 3.56 | 4.93 | 2.32 | 0.91 | 0.88 | 35.39 |
| *Charleston | 0.61 | 1.86 | 5.89 | 3.58 | 1.54 | 1.64 | 4.17 | 7.85 | 5.35 | 2.00 | 2.44 | 1.75 | 38.68 |
| *Cheraw (1) | 1.08 | 3.32 | 3.38 | 2.66 | 3.55 | 5.08 | 3.50 | 5.57 | 3.28 | 1.67 | 1.37 | 2.26 | 36.72 |
| Cheraw (2) | 1.13 | 3.43 | 2.54 | 2.61 | 3.58 | 4.70 | 3.76 | 5.92 | ..... | ..... | ..... | ..... | ..... |
| Clarks Hill | 1.54 | 6.13 | 6.19 | 3.57 | 3.41 | 4.85 | 6.51 | 6.07 | 3.41 | ..... | ..... | ..... | ..... |
| Clemson College | 4.74 | 6.28 | 6.28 | 1.91 | 6.84 | 10.44 | 4.03 | 7.32 | 3.95 | 2.51 | 1.12 | 4.90 | 60.32 |
| *Columbia | 1.54 | 4.42 | 3.47 | 1.72 | 4.28 | 6.67 | 3.08 | 4.18 | 1.04 | 3.43 | 0.42 | 2.06 | 36.31 |
| *Conway | 1.70 | 4.30 | 2.39 | 3.74 | 4.72 | 5.29 | 7.08 | 3.83 | 1.47 | 2.56 | 0.81 | 2.82 | 40.71 |
| Darlington | 0.71 | 3.88 | ..... | 3.42 | 4.62 | 6.39 | 2.91 | 2.37 | 5.02 | 1.84 | 2.07 | 1.84 | ..... |
| Dillon | ..... | 4.23 | 1.54 | 2.99 | 3.92 | 7.33 | 1.71 | 4.77 | 2.28 | 2.72 | 0.69 | 1.66 | ..... |
| *Effingham | 2.35 | 6.55 | 5.50 | 6.20 | 5.84 | 9.35 | 3.50 | 2.70 | 4.87 | 4.74 | 1.80 | 4.50 | 57.90 |
| *Ferguson | 0.50 | 4.50 | 4.84 | 4.85 | 2.95 | 5.31 | 4.68 | 3.12 | 2.35 | 1.48 | 0.90 | 2.60 | 38.08 |
| *Florence | 2.28 | 7.09 | 2.69 | 1.95 | 3.85 | 3.42 | 2.39 | 4.37 | 5.14 | 2.27 | 0.20 | 2.78 | 38.43 |
| Georgetown | 1.81 | 2.58 | 3.41 | 5.01 | 2.44 | 4.62 | 4.93 | 11.70 | 1.65 | 2.38 | 0.55 | 1.86 | 42.94 |
| *Greenville | 3.07 | 4.99 | 6.14 | 1.43 | 8.89 | 10.35 | 7.86 | 5.09 | 4.95 | 2.29 | 1.30 | 4.60 | 60.96 |
| *Greenwood | 2.49 | 5.26 | 6.19 | 1.60 | 5.50 | 5.83 | 8.85 | 3.63 | 3.66 | 1.57 | 0.96 | 3.35 | 48.89 |
| Heath Springs | ..... | 4.09 | 3.27 | 1.98 | 7.36 | 7.38 | 3.50 | 3.83 | 2.29 | 1.95 | 0.63 | 3.11 | ..... |
| Jacksonboro | 0.72 | 3.10 | 10.06 | 3.50 | 3.05 | 6.69 | 4.15 | 5.37 | 3.16 | T. | T. | 2.03 | 41.83 |
| *Kingstree (1) | 0.91 | 4.36 | 3.84 | 4.07 | 3.51 | 6.39 | 6.11 | 4.65 | 2.14 | 1.79 | 2.88 | 2.20 | 42.85 |
| Kingstree (2) | 0.82 | 3.22 | 4.12 | 4.42 | 2.76 | 6.36 | 5.80 | ..... | ..... | ..... | ..... | ..... | ..... |
| Liberty | 3.75 | 5.90 | 7.90 | 3.50 | 7.90 | 8.10 | 5.44 | 3.10 | 7.05 | 2.00 | 1.29 | 4.07 | 60.00 |
| Little Mountain | 1.33 | 5.36 | 4.91 | 1.74 | 4.86 | 8.86 | 3.44 | 1.88 | 2.78 | 2.01 | 0.68 | 2.39 | 40.24 |
| Newberry | 1.43 | 5.51 | 5.00 | 2.39 | 5.98 | 7.22 | 6.35 | 1.61 | 4.32 | 2.09 | 2.48 | 2.53 | 46.91 |
| *Pelzer | 3.64 | 6.12 | 5.82 | 1.90 | 8.88 | 11.42 | 5.44 | 3.86 | 4.22 | 2.56 | 0.88 | 3.44 | 58.18 |
| Pinopolis | 1.25 | 3.99 | 5.43 | 5.57 | 7.33 | 7.26 | ..... | 5.33 | 2.08 | 3.88 | 1.90 | 1.22 | ..... |
| *St. George | 1.35 | 3.82 | 4.95 | 5.00 | 3.05 | 8.00 | 4.90 | 5.35 | 3.75 | 2.22 | 0.60 | 2.20 | 45.19 |
| *St. Matthews | 1.76 | 4.65 | 3.99 | 2.25 | 5.27 | 9.48 | 3.34 | 3.17 | 2.89 | 2.98 | 0.22 | 2.83 | 42.83 |
| Saluda | 2.02 | 4.85 | 4.82 | 1.54 | 3.98 | 7.62 | 6.68 | 3.97 | 4.74 | ..... | 0.39 | 3.01 | ..... |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *South Carolina*—Continued. | | | | | | | | | | | | | |
| Santuc | 1.48 | 4.53 | 4.66 | 0.92 | 6.38 | 7.54 | 6.43 | 4.77 | 2.65 | 1.30 | 0.79 | 2.79 | 44.24 |
| *Smith Mills | 1.57 | 4.97 | 4.89 | 3.43 | 6.40 | 6.10 | 2.57 | 5.06 | 2.92 | 2.10 | 1.06 | 4.13 | 45.20 |
| Society Hill | 1.40 | 3.31 | 2.38 | 2.91 | 3.68 | 9.87 | 6.73 | 4.96 | 4.98 | 1.84 | 0.67 | 2.18 | 44.91 |
| *Spartanburg | 2.53 | 5.11 | 4.18 | 2.12 | 7.13 | 11.24 | 4.22 | 4.47 | 5.69 | 1.79 | 1.25 | 3.23 | 52.96 |
| Summerville | 0.58 | 3.14 | 5.16 | 4.53 | 2.69 | 4.17 | 7.15 | 9.54 | 2.23 | 2.41 | 1.52 | 2.71 | 45.83 |
| Trenton | 1.23 | 5.74 | 5.88 | 1.77 | 7.86 | 5.55 | 3.25 | 9.67 | 1.93 | 4.38 | 1.06 | 2.66 | 50.98 |
| Trial | 0.58 | 4.85 | 4.23 | 4.65 | 3.26 | 6.87 | 5.12 | 1.92 | 1.41 | 4.20 | 1.09 | 2.24 | 40.42 |
| Walhalla | ..... | ..... | ..... | 5.51 | 7.10 | 7.37 | 4.43 | 4.10 | 8.00 | 2.93 | 0.63 | 4.86 | ..... |
| Walterboro | 0.83 | 3.71 | 6.10 | 4.98 | 6.73 | 3.67 | 9.07 | 5.41 | 7.08 | 2.98 | 0.85 | 2.82 | 54.23 |
| Winnsboro | 3.67 | 2.58 | 4.99 | 2.41 | 5.33 | 7.75 | 6.95 | 5.33 | 4.40 | 0.30 | ..... | ..... | ..... |
| Winthrop College | 1.06 | 3.91 | 3.58 | 1.73 | 8.30 | 9.78 | 2.26 | 3.26 | 2.32 | 1.53 | 0.50 | 2.60 | 40.83 |
| *Yemassee | 0.58 | 2.38 | 7.45 | 3.56 | 1.81 | 8.27 | 9.58 | 4.38 | 3.66 | 0.48 | 0.83 | 2.67 | 45.65 |
| *South Dakota.* | | | | | | | | | | | | | |
| *Aberdeen | 1.35 | 0.90 | 0.88 | 0.40 | 4.43 | 2.77 | 4.51 | 3.06 | 2.05 | 0.85 | 1.18 | 3.00 | 25.38 |
| Academy | 0.43 | 0.94 | 0.24 | 0.88 | 5.32 | 1.57 | 2.20 | 4.60 | 0.66 | 1.12 | 1.62 | 1.80 | 21.38 |
| Alexandria | 0.58 | 1.40 | 0.15 | 0.94 | 6.30 | 5.57 | 1.90 | 4.64 | 1.77 | 1.87 | 1.92 | 1.49 | 28.53 |
| Andover | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.50 | 2.73 | 2.44 | ..... | ..... | ..... |
| Ardmore | 1.60 | 0.60 | 0.90 | ..... | 5.27 | ..... | 2.09 | 2.26 | 0.45 | 0.38 | 1.00 | 2.25 | ..... |
| Armour | 0.15 | 0.87 | 0.90 | 1.87 | 4.92 | 4.02 | 2.77 | 4.79 | 1.02 | 1.85 | 1.75 | 1.65 | 26.56 |
| Ashcroft | 1.20 | 1.10 | 1.00 | 1.00 | 3.07 | 3.04 | 3.92 | 0.73 | 1.60 | T. | ..... | ..... | ..... |
| Belle Fourche | 0.17 | 0.23 | 0.19 | 0.88 | 3.67 | 3.49 | 1.44 | 0.63 | 1.06 | 0.41 | 0.65 | 0.72 | 13.54 |
| Bowdle | 0.60 | 1.30 | T. | 0.56 | 5.67 | 5.66 | 4.26 | 1.82 | 1.75 | ..... | ..... | ..... | ..... |
| Brookings | 1.10 | 1.57 | 0.37 | 1.16 | 4.75 | 2.29 | 2.44 | 3.39 | 1.77 | 1.71 | 0.65 | 1.14 | 22.34 |
| Burke | ..... | ..... | 0.38 | 1.17 | 2.12 | 1.85 | 3.45 | 3.40 | 1.15 | 1.27 | 1.05 | 1.85 | ..... |
| Canton | 0.78 | 1.72 | 0.37 | ..... | ..... | 9.40 | 3.69 | 2.27 | 3.25 | 1.51 | 2.39 | 1.68 | ..... |
| Cascade Springs | 1.55 | 1.13 | 0.87 | 0.75 | 4.53 | 3.65 | 1.54 | 0.52 | 1.25 | 1.10 | 1.50 | 1.65 | 20.06 |
| Castlewood | 0.42 | 0.34 | 0.20 | 0.33 | 2.46 | 5.93 | 3.42 | 7.59 | 1.02 | 1.55 | 0.73 | 0.85 | 24.84 |
| Centerville | 0.56 | 2.37 | 0.84 | 2.04 | 5.08 | 6.91 | 5.16 | 1.84 | 5.85 | 1.52 | 2.81 | 2.42 | 37.40 |
| *Chamberlain | 0.38 | 0.70 | T. | 0.48 | ..... | 0.63 | 1.40 | 4.51 | 0.66 | 1.16 | 1.21 | 1.61 | ..... |
| Clark | 0.80 | 1.21 | 0.45 | 0.25 | 3.01 | 3.44 | 5.15 | 4.60 | 0.96 | 2.56 | 1.25 | 1.77 | 25.45 |
| Clear Lake | 0.90 | 1.03 | 0.20 | 0.85 | ..... | 4.18 | 2.37 | 7.24 | ..... | ..... | ..... | 1.56 | ..... |
| Cottonwood | ..... | ..... | ..... | ..... | ..... | ..... | 4.18 | 0.39 | 1.13 | 0.26 | 0.41 | 0.58 | ..... |
| Davis ton | ..... | ..... | ..... | ..... | 5.30 | 2.55 | 2.63 | 2.59 | 2.30 | 1.07 | 0.50 | 0.50 | ..... |
| Deadwood | ..... | ..... | ..... | 4.40 | 11.15 | 6.52 | 4.70 | 1.25 | 2.80 | 1.85 | 0.80 | 3.40 | ..... |
| Deerfield | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.26 | 1.79 | 0.54 | 0.64 | 0.91 | ..... |
| De Smet | 0.70 | 1.75 | 0.20 | 0.30 | 2.85 | 2.72 | 1.80 | 5.25 | 1.05 | 1.53 | 0.60 | 1.20 | 19.95 |
| Dowling | ..... | ..... | ..... | 0.29 | 2.29 | 6.09 | 0.65 | 0.29 | 0.78 | 0.70 | 1.93 | 1.30 | ..... |
| Dumont | ..... | ..... | ..... | ..... | 10.64 | 9.65 | 3.57 | 3.12 | 1.67 | 0.99 | 0.82 | 4.90 | ..... |
| Elk Mountain | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.58 | 2.05 | 0.52 | 0.98 | 0.93 | ..... |
| Elk Point | ..... | 1.82 | 0.70 | ..... | 2.37 | 3.32 | 7.13 | ..... | ..... | 2.15 | 3.20 | ..... | ..... |
| Ellingson | ..... | ..... | ..... | ..... | ..... | 2.59 | 2.46 | 2.32 | ..... | ..... | ..... | ..... | ..... |
| Englewood | ..... | ..... | ..... | ..... | 11.56 | 8.39 | 3.79 | 7.00 | 1.92 | 1.36 | 0.34 | 3.67 | ..... |
| Eureka | 0.30 | 0.45 | 0.14 | 0.50 | 2.65 | 3.35 | 2.16 | 1.39 | 1.25 | 0.17 | 0.45 | 2.40 | 15.21 |
| Fairfax | 0.46 | 1.00 | 0.41 | 1.04 | 3.52 | 3.34 | 4.85 | 2.50 | 0.68 | ..... | ..... | ..... | ..... |
| Farmingdale | ..... | ..... | ..... | 0.02 | 2.05 | 5.05 | 1.59 | 0.82 | 1.09 | 1.04 | ..... | ..... | ..... |
| Faulkton | 0.38 | 0.60 | 0.14 | 0.63 | 4.66 | 2.03 | 6.19 | 3.46 | 1.51 | 0.59 | 1.33 | 1.46 | 22.98 |
| Flandreau | 0.80 | 1.00 | 0.37 | 1.68 | 3.77 | 4.26 | 2.55 | 3.58 | 1.54 | 1.26 | 2.00 | 2.23 | 25.04 |
| Forestburg | 0.94 | 2.00 | T. | 0.65 | 4.49 | 3.68 | 1.83 | 1.95 | 1.19 | 1.75 | 1.40 | 1.45 | 21.33 |
| Fort Meade | 0.12 | 0.12 | 0.42 | 2.23 | 10.20 | 8.53 | 3.19 | 0.30 | 1.50 | 0.50 | 1.70 | 1.31 | 30.12 |
| Frederick | ..... | 0.84 | 0.06 | 0.74 | 3.76 | 0.93 | 4.51 | 1.79 | 1.19 | 0.45 | 0.89 | ..... | ..... |
| Gannvalley | 1.20 | 0.70 | 0.15 | 0.93 | 2.00 | 1.49 | 2.02 | 4.60 | 1.13 | 1.00 | 1.70 | 2.60 | 19.52 |
| Greenmont | ..... | ..... | ..... | ..... | 13.96 | 7.49 | 4.99 | 1.39 | 3.34 | 1.66 | 0.68 | 3.42 | ..... |
| Greenwood | 0.25 | 1.40 | 0.67 | 1.14 | 3.51 | 2.40 | 5.31 | 2.31 | 1.12 | 1.80 | 1.60 | 1.90 | 23.41 |
| Hardy Ranger Station | ..... | ..... | ..... | ..... | ..... | 5.60 | 2.63 | 1.13 | 2.61 | 1.12 | 0.97 | 5.16 | ..... |
| Harvey's Ranch | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.56 | 1.68 | 1.24 | 0.73 | 3.15 | ..... |
| Hermosa | 0.35 | 0.28 | 0.14 | 0.19 | 5.54 | 5.21 | 3.11 | 0.90 | 1.05 | 0.59 | 1.01 | 0.53 | 18.90 |
| Highmore | 0.26 | 0.34 | 0.13 | 0.30 | 4.72 | 1.69 | 1.81 | 3.92 | 1.70 | 1.04 | 0.71 | 1.01 | 17.63 |
| Hill City | ..... | ..... | ..... | ..... | 5.90 | 7.71 | 2.42 | 1.78 | 1.16 | 0.85 | 0.94 | 0.39 | ..... |
| Hitchcock | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 4.65 | ..... | ..... | ..... | ..... | ..... |
| Hopewell | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.37 | 0.04 | 1.74 | 2.65 | ..... |
| Howard | 0.36 | 0.92 | 0.17 | 0.85 | 3.93 | 3.25 | 4.08 | 4.26 | 1.38 | 1.97 | ..... | 1.18 | ..... |
| Howell | 0.42 | 0.41 | 0.20 | 0.22 | 4.51 | 2.50 | 5.62 | 3.79 | 1.74 | 1.12 | 0.58 | 1.49 | 22.60 |
| *Huron | 0.60 | 1.55 | 0.21 | 0.61 | 3.84 | 0.95 | 2.42 | 2.37 | 1.38 | 2.50 | 1.34 | 1.37 | 19.14 |
| Ipswich | 0.21 | 0.68 | 0.38 | 0.40 | 5.04 | 1.07 | 2.42 | 3.41 | 0.48 | 0.25 | 0.62 | 0.79 | 15.75 |
| Kadoka | ..... | ..... | ..... | ..... | ..... | 2.42 | 1.91 | 2.06 | 1.27 | 0.51 | 0.56 | 0.74 | ..... |
| Kennebec | 0.50 | 0.90 | 0.20 | 1.10 | 4.59 | 1.60 | 0.41 | 5.59 | 0.77 | 0.30 | 1.30 | 2.07 | 19.33 |
| Kidder | 0.11 | 0.55 | 0.15 | 0.94 | 2.50 | 1.53 | 2.28 | ..... | 0.80 | 2.80 | 1.10 | 1.35 | ..... |
| Kimball | 0.54 | 0.60 | T. | 0.76 | 4.47 | 1.27 | 2.54 | 4.44 | 0.96 | 2.32 | 1.05 | 1.22 | 20.17 |
| La Delle | 0.74 | 0.66 | 0.20 | 0.37 | 4.42 | 3.71 | 4.74 | 4.26 | ..... | 3.24 | 1.25 | 1.95 | ..... |
| Lead | ..... | ..... | 0.96 | 2.97 | 12.38 | 7.70 | 4.01 | 2.79 | 2.36 | 1.41 | 0.80 | 3.51 | ..... |
| Lemmon | 0.10 | 0.52 | T. | 0.45 | 4.77 | 2.52 | 2.99 | 1.51 | 0.29 | 0.80 | 0.70 | 0.90 | 15.55 |
| Leslie | 0.20 | 0.65 | 0.10 | 0.45 | ..... | ..... | ..... | ..... | 0.90 | 0.30 | ..... | ..... | ..... |
| Manderson | 1.00 | ..... | 0.96 | 0.85 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Marion | 0.58 | 1.05 | 0.64 | 2.37 | 5.65 | 7.92 | 2.71 | 3.34 | 1.63 | 2.67 | 3.78 | 2.33 | 34.67 |
| Marston | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.02 | 1.22 | ..... |
| Mellette | 0.24 | 0.37 | 0.37 | 0.28 | 6.75 | 3.40 | 4.43 | 3.38 | 1.46 | 1.59 | 0.78 | 1.12 | 24.17 |
| Menno | 0.52 | 2.76 | 0.44 | 1.45 | 4.96 | 4.44 | 3.26 | 2.97 | 2.26 | 1.80 | 2.42 | 1.76 | 29.04 |
| *Milbank | 0.71 | 1.34 | 0.15 | 0.53 | 4.80 | 1.46 | 2.18 | 3.45 | 1.55 | 2.96 | 0.74 | 2.80 | 22.67 |
| *Mitchell | 0.70 | 1.50 | 0.16 | 1.37 | 6.17 | 3.49 | 2.28 | 4.80 | 1.87 | 2.15 | 1.52 | 1.60 | 27.62 |
| Murdo | 0.40 | 0.50 | 0.45 | 2.75 | 3.49 | 3.04 | 0.99 | 1.78 | 0.63 | 0.30 | 0.60 | 2.05 | 16.98 |
| Oelrichs | 1.45 | 0.55 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.00 | 1.00 | ..... |
| Orman | 0.20 | 0.16 | 0.18 | 1.34 | 4.08 | 5.07 | 1.33 | 0.51 | 1.13 | 0.48 | 0.41 | 1.30 | 16.19 |
| Ottumwa | 0.20 | 0.50 | 0.20 | 0.39 | 2.37 | 2.10 | 0.69 | 1.00 | 2.61 | 0.33 | 1.10 | 1.10 | 12.59 |
| *Pierre | 0.27 | 0.42 | 0.02 | 0.69 | 2.75 | 1.39 | 0.73 | 3.03 | 1.19 | 0.17 | 1.24 | 1.10 | 12.99 |
| Plankinton | 0.65 | ..... | ..... | 0.88 | 4.29 | 2.78 | 2.04 | 2.99 | 1.22 | 2.20 | 1.99 | 1.87 | ..... |
| Pollock | 0.40 | ..... | 0.20 | ..... | 2.70 | 5.90 | 3.60 | 1.07 | 1.11 | ..... | 0.70 | ..... | ..... |
| *Rapid City | 0.10 | 0.31 | 0.09 | 0.45 | 5.13 | 7.54 | 1.80 | 0.49 | 1.66 | 0.88 | 0.93 | 1.00 | 20.38 |
| *Redfield | 0.49 | 0.60 | 0.10 | 0.10 | 3.76 | 3.64 | 4.82 | 3.08 | 1.56 | 1.65 | 1.05 | 1.65 | 22.50 |
| Rockford | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.51 | 0.73 | 0.64 | 1.34 | ..... |
| Rosebud | 0.60 | 1.55 | 0.85 | 1.45 | 3.58 | 2.60 | 2.04 | 1.23 | 1.07 | 0.23 | 1.85 | 3.30 | 20.35 |
| Roslyn | 0.42 | 0.18 | 0.33 | 0.87 | 2.95 | 1.80 | 2.88 | 3.06 | 2.33 | 2.55 | 0.80 | 1.74 | 19.89 |
| *Running Water | ..... | ..... | ..... | 1.49 | 6.41 | 4.52 | 2.97 | 2.26 | 2.52 | 1.95 | ..... | ..... | ..... |
| Savoy | ..... | ..... | ..... | 3.27 | 10.26 | 5.92 | 3.39 | 1.55 | 2.08 | 1.09 | 0.85 | 3.02 | ..... |
| Selby | 0.51 | 0.99 | 0.26 | 0.25 | 5.12 | 3.79 | 2.78 | 2.01 | 1.19 | 0.79 | 1.28 | 1.58 | 20.55 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *South Dakota*—Continued. | | | | | | | | | | | | | |
| Sioux Falls | 1.33 | 2.65 | 0.58 | 1.53 | 4.90 | 8.35 | 4.78 | 4.05 | 2.00 | 1.50 | 2.40 | 1.95 | 36.02 |
| Spearfish | T. | 0.37 | 0.25 | 1.72 | 5.80 | 5.67 | ..... | 0.71 | 2.03 | 0.52 | 0.57 | 0.75 | ..... |
| Stephan | 0.28 | 0.48 | 0.03 | 0.43 | 2.99 | 2.07 | 1.95 | 3.11 | 1.24 | 0.69 | 0.90 | 1.42 | 15.59 |
| Tama | 0.21 | 0.81 | 0.32 | ..... | 4.53 | 2.02 | 2.44 | 0.30 | 1.54 | 0.57 | 1.04 | 1.26 | ..... |
| Vale | 0.05 | 0.26 | 0.11 | 0.72 | 4.01 | 7.02 | 2.16 | 1.25 | 1.61 | 1.05 | 0.43 | 1.07 | 19.74 |
| Van Metre | ..... | ..... | T. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Vermilion | 0.90 | 2.08 | 1.05 | 3.51 | 5.38 | 6.90 | 7.15 | 5.17 | 3.93 | 2.51 | 4.53 | 1.92 | 45.03 |
| Waters's Ranch | ..... | ..... | ..... | ..... | ..... | ..... | 2.02 | 1.09 | 2.41 | 0.39 | 0.90 | 1.49 | ..... |
| Watertown | 1.09 | 0.67 | 0.10 | 0.35 | 4.56 | 3.23 | 3.38 | 4.55 | 0.50 | 1.65 | 1.14 | 1.72 | 22.94 |
| Wentworth | 0.96 | 1.51 | 0.37 | 1.67 | 4.24 | 4.68 | 2.49 | 4.50 | 1.37 | 1.85 | 1.49 | 1.67 | 26.80 |
| Wessington Springs | 0.57 | 1.26 | ..... | ..... | 3.12 | 2.89 | 2.06 | 2.55 | 1.56 | 1.42 | 1.03 | ..... | ..... |
| White Lake | ..... | 1.17 | 0.15 | 0.60 | 5.00 | 1.40 | ..... | 3.75 | 0.70 | 1.09 | 3.74 | 2.09 | ..... |
| *Yankton | 0.77 | 1.75 | 0.75 | 1.74 | 4.93 | 5.50 | 5.24 | 3.56 | 3.67 | 2.22 | 2.50 | 1.90 | 34.53 |
| *Tennessee.* | | | | | | | | | | | | | |
| *Arlington | ..... | ..... | ..... | 6.25 | 7.70 | 2.47 | 1.70 | 1.29 | 2.57 | 1.04 | ..... | ..... | ..... |
| Ashwood | 3.10 | 8.27 | 4.28 | 3.70 | 4.45 | 6.42 | 1.58 | 3.17 | 6.25 | 2.60 | 1.60 | 3.12 | 48.54 |
| Benton | 5.10 | 6.35 | 6.75 | 6.13 | 8.68 | 11.21 | 3.71 | 1.85 | 2.95 | 4.50 | 1.76 | 3.40 | 62.39 |
| *Bird's Bridge | 2.66 | 5.07 | 5.76 | 2.75 | 5.14 | 6.57 | 3.40 | 4.05 | 3.26 | 2.71 | 0.38 | 1.59 | 44.24 |
| *Bluff City | 2.38 | 2.70 | 4.56 | 2.98 | 6.08 | 5.06 | 3.44 | 2.85 | 3.32 | 2.14 | 0.16 | 2.12 | 37.79 |
| *Bolivar | 2.02 | 6.35 | 4.80 | 3.99 | 6.96 | 2.38 | 4.34 | 1.04 | 3.10 | 1.01 | ..... | 4.77 | ..... |
| Bristol, Va | 1.94 | 3.82 | 6.05 | 2.35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *Brownsville | 1.69 | 8.53 | 3.64 | 5.94 | 5.50 | 1.80 | 2.77 | 1.08 | 4.68 | 0.95 | 5.38 | 5.39 | 47.35 |
| Byrdstown | 4.71 | 6.57 | 8.07 | 6.06 | 6.92 | 6.64 | 7.97 | 1.19 | 1.32 | 1.63 | 2.06 | 1.65 | 54.79 |
| *Carthage | 4.51 | 5.10 | 6.00 | 4.64 | 4.71 | 6.33 | 3.36 | 5.44 | 3.15 | 3.41 | 2.96 | 3.92 | 53.53 |
| Cedar Hill | 2.10 | 6.65 | 6.05 | 6.25 | 6.20 | 2.93 | ..... | ..... | 4.30 | 1.85 | 2.15 | 4.30 | ..... |
| *Celina | 3.48 | 6.60 | 6.56 | 3.96 | 6.32 | 4.60 | 6.96 | 1.74 | 2.39 | 1.59 | 2.47 | 3.49 | 50.25 |
| *Charleston | 4.00 | 8.50 | 7.54 | 5.09 | 10.53 | 13.83 | 6.29 | 2.58 | 2.49 | 3.73 | 0.70 | 4.89 | 70.23 |
| *Chattanooga | 3.44 | 7.06 | 6.74 | 6.22 | 3.62 | 7.01 | 4.61 | 1.19 | 4.44 | 3.28 | 1.05 | 5.39 | 54.05 |
| *Clarksville | 2.43 | 6.33 | 5.79 | 7.36 | 7.27 | 5.28 | 4.23 | 1.50 | 3.17 | 1.47 | 2.52 | 3.03 | 50.38 |
| *Clinton | 4.05 | 7.40 | 7.54 | 5.14 | 4.68 | 8.23 | 11.93 | 5.25 | 1.63 | 2.39 | 2.23 | 2.95 | 63.42 |
| *Covington | 1.77 | 8.64 | 3.58 | 7.41 | 8.44 | 2.27 | 2.18 | 1.29 | 3.80 | 1.20 | 7.09 | 3.71 | 51.38 |
| *Dandridge | 2.80 | 5.06 | 5.72 | 3.38 | 4.05 | 6.60 | 5.59 | 2.40 | 1.40 | 2.62 | 0.46 | 1.90 | 41.98 |
| Decatur | 3.50 | 9.90 | 5.98 | 7.34 | 6.36 | 9.97 | 7.49 | 3.54 | 2.80 | 3.11 | 0.96 | 3.85 | 64.80 |
| Dickson | 1.91 | 8.40 | 6.85 | 6.82 | 5.84 | 3.23 | 4.14 | 0.41 | 2.71 | 1.69 | 1.77 | 4.34 | 48.11 |
| Dover | 2.52 | 7.38 | 6.62 | 5.09 | 4.64 | 6.89 | 5.85 | 1.49 | 3.56 | 1.78 | 3.09 | 3.27 | 52.18 |
| Dunlap | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 4.89 | 3.88 | 3.45 | 0.81 | 4.08 | ..... |
| *Dyersburg | 1.60 | 7.30 | 2.60 | 5.47 | 5.89 | 2.42 | 6.60 | 2.25 | 3.74 | 1.25 | 5.65 | 3.45 | 48.22 |
| *Elizabethton | 2.21 | 3.18 | 4.08 | 2.62 | 3.62 | 6.51 | 2.63 | 2.80 | 3.90 | 2.66 | 0.95 | 1.48 | 36.59 |
| Erasmus | 4.35 | 7.33 | 8.10 | 6.49 | 4.11 | 11.78 | 8.02 | 3.80 | 4.16 | 2.12 | 2.11 | 3.80 | 66.17 |
| Florence | 4.02 | 6.04 | 5.84 | 4.11 | 6.02 | 4.70 | 2.68 | 5.27 | 4.42 | 2.46 | 1.75 | 2.52 | 49.83 |
| Franklin | 2.02 | 7.88 | 4.57 | 5.80 | 5.10 | 8.52 | 2.58 | 0.48 | 4.95 | 1.59 | 2.19 | 3.96 | 49.64 |
| *Halls Hill | 3.69 | 5.70 | 5.80 | 4.78 | 4.95 | 5.45 | 5.26 | 1.44 | 3.79 | 3.35 | 2.20 | 2.76 | 49.17 |
| Harriman | 3.55 | 7.50 | 7.37 | 6.56 | 5.63 | 7.25 | 7.84 | 2.29 | 4.26 | 2.28 | 1.96 | 3.01 | 59.50 |
| Hohenwald | 2.80 | 10.23 | 4.51 | 5.75 | 4.14 | 5.00 | 4.88 | 0.56 | 2.88 | 3.00 | 3.05 | 3.66 | 50.46 |
| Iron City | 2.80 | 9.59 | 5.98 | 6.29 | 6.54 | 4.03 | 3.42 | 2.00 | 3.28 | 1.77 | 1.44 | 2.97 | 50.11 |
| Jackson | ..... | 7.04 | 3.31 | 6.04 | 4.87 | 3.75 | 2.46 | 1.05 | 4.79 | 1.36 | 1.92 | 4.87 | ..... |
| *Johnsonville | 1.42 | 5.50 | 5.14 | 5.39 | 10.19 | 3.34 | 5.86 | 0.89 | 3.32 | 2.73 | 1.84 | 3.45 | 49.07 |
| Jonesboro | 1.88 | 3.78 | 6.33 | 4.23 | 4.98 | 5.69 | 3.47 | 2.33 | ..... | ..... | ..... | ..... | ..... |
| Kenton | 2.51 | 6.52 | 3.77 | 5.06 | 6.68 | 2.71 | 6.98 | 0.72 | 5.90 | 1.74 | 5.91 | 4.21 | 52.71 |
| *Kingston | 3.72 | 7.93 | 7.48 | 6.13 | 6.24 | 6.06 | 7.52 | 1.46 | 3.96 | 2.43 | 1.36 | 2.77 | 57.06 |
| *Knoxville | 3.17 | 7.05 | 5.98 | 5.70 | 4.14 | 9.68 | 7.01 | 3.17 | 2.91 | 1.61 | 0.91 | 2.49 | 53.82 |
| Lafayette | 3.13 | ..... | 6.72 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Lebanon | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.40 | 3.95 | 2.62 | 1.83 | 2.99 | ..... |
| Lewisburg | 3.50 | 9.24 | 4.83 | 4.85 | 4.72 | 7.19 | 2.50 | 0.57 | 4.85 | 2.87 | 1.98 | 3.44 | 50.54 |
| *Louden | 4.05 | 6.85 | 7.15 | 4.20 | 6.25 | 8.35 | 11.20 | 1.40 | 2.52 | 2.35 | 1.00 | 2.81 | 58.13 |
| Lynnville | 3.15 | 9.72 | 4.71 | 5.77 | 3.81 | 6.93 | 4.46 | 1.49 | 6.96 | 2.06 | 2.11 | 2.72 | 53.89 |
| *McGhee | 2.90 | 6.47 | 6.35 | 4.47 | 6.12 | 6.20 | 6.73 | 4.24 | 2.83 | 2.55 | 0.71 | 3.53 | 53.10 |
| McMinnville | 4.14 | 4.60 | 6.52 | 4.90 | 4.70 | 4.80 | 6.99 | 4.11 | 5.37 | 2.47 | 2.90 | 3.59 | 55.09 |
| Maryville | 2.77 | 6.03 | 6.38 | 5.19 | 4.60 | 8.12 | 9.08 | 4.22 | 3.38 | 2.41 | 0.88 | 2.84 | 55.90 |
| *Memphis | 1.19 | 7.75 | 2.93 | 6.49 | 6.26 | 1.78 | 1.09 | 2.08 | 4.09 | 1.03 | 4.87 | 5.73 | 45.29 |
| *Milan | 1.79 | 7.81 | 3.69 | 8.40 | 7.52 | 3.57 | 3.71 | 1.01 | 4.55 | 1.58 | 4.68 | ..... | ..... |
| Mountain City | 3.04 | 4.22 | 4.63 | 3.64 | 3.48 | 6.92 | 5.17 | 2.57 | 3.63 | 3.59 | 0.81 | 1.66 | 43.36 |
| *Nashville | 2.34 | 7.08 | 4.94 | 4.12 | 4.57 | 5.56 | 4.93 | 2.73 | 4.23 | 1.01 | 2.58 | 2.90 | 46.99 |
| *Newport | 3.42 | 6.71 | 8.45 | 4.55 | 8.00 | 7.30 | 5.30 | 4.80 | 2.10 | 2.70 | 0.75 | 1.35 | 55.43 |
| *New River | 4.31 | 5.87 | 5.69 | 4.88 | 3.88 | 11.86 | 9.19 | 4.86 | 0.97 | 1.51 | 2.17 | 2.79 | 57.98 |
| Palmetto | 3.92 | 9.26 | 5.05 | 4.85 | 4.85 | 6.15 | 3.22 | 0.82 | 3.43 | 3.43 | 1.58 | 2.56 | 49.12 |
| Pinewood | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.43 | 1.47 | 4.33 | ..... |
| Pope | 2.70 | 9.55 | 3.70 | 4.74 | ..... | ..... | 2.10 | 1.10 | 2.90 | 2.30 | 2.05 | 4.80 | ..... |
| *Rogersville | 3.48 | 4.39 | 5.63 | 3.91 | 4.02 | 9.00 | 5.52 | 4.48 | 3.69 | 2.16 | 0.98 | 2.42 | 49.68 |
| Rugby | 5.23 | 5.59 | 7.96 | 6.06 | 4.41 | 6.50 | 6.21 | 2.36 | 3.09 | 1.18 | 2.05 | 3.85 | 54.49 |
| *Savannah | ..... | 10.01 | 3.55 | 5.95 | 6.64 | 2.85 | ..... | ..... | ..... | ..... | 2.74 | 4.57 | ..... |
| Sevierville | 3.12 | 5.48 | 0.38 | 4.37 | 4.78 | 5.93 | 5.92 | 4.20 | 2.28 | 2.47 | 0.68 | 1.90 | 47.57 |
| Sewanee | 2.59 | 6.70 | 5.47 | 6.33 | 7.72 | 7.16 | 2.71 | 3.84 | 4.35 | 2.47 | 1.00 | 4.66 | 55.00 |
| Sparta | 2.88 | 5.35 | 3.58 | 6.77 | 4.63 | 7.20 | 4.98 | 9.51 | 2.06 | 1.90 | 1.00 | 2.27 | 52.13 |
| Springdale | 4.49 | 5.29 | 6.90 | 6.50 | 1.50 | ..... | ..... | 4.72 | 1.71 | 1.98 | 1.88 | 2.51 | ..... |
| Springville | 2.61 | 6.88 | 6.35 | 6.13 | 7.51 | 3.15 | 5.53 | 0.03 | 3.52 | 1.87 | 3.40 | 5.05 | 52.03 |
| *Tazewell | 4.85 | 6.07 | 6.73 | 5.63 | 3.73 | 5.81 | 8.20 | 10.96 | 2.35 | 2.32 | 1.26 | 2.20 | 60.11 |
| Tellico Plains | 3.61 | 7.78 | 6.66 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Tracy City | 4.29 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Trenton | 2.03 | 6.84 | 4.44 | 6.41 | 6.14 | 3.74 | 3.54 | 1.63 | 5.46 | 1.39 | 4.99 | 4.22 | 50.83 |
| Tullahoma | 3.46 | 9.73 | 4.88 | 7.34 | 6.27 | 6.49 | 2.40 | 3.81 | 5.35 | 3.86 | 2.02 | 3.41 | 59.02 |
| Union City | 1.66 | 8.15 | 3.94 | 4.54 | 6.35 | 2.01 | 5.74 | 0.54 | 4.88 | 1.33 | 4.71 | 4.15 | 48.00 |
| *Walling | 4.06 | 4.95 | 8.27 | 4.81 | 6.03 | 5.28 | 5.47 | 4.07 | 5.96 | 1.63 | 2.51 | 3.37 | 56.41 |
| Waynesboro | 2.97 | 8.49 | 4.25 | 4.92 | 8.54 | 3.41 | 3.16 | 2.41 | 3.27 | 3.80 | 2.06 | 4.23 | 51.51 |
| Wildersville | 1.64 | 8.40 | 4.63 | 7.15 | 7.93 | 3.39 | 4.26 | 1.90 | 4.44 | 1.39 | 1.51 | 3.56 | 50.20 |
| Yukon | 3.95 | 9.01 | 6.96 | 5.62 | 5.50 | 5.86 | 4.56 | 6.17 | 4.17 | 1.46 | 1.50 | 3.80 | 58.56 |
| *Texas.* | | | | | | | | | | | | | |
| *Abilene | 0.06 | 0.00 | 0.39 | 0.38 | 2.71 | 4.04 | 1.09 | 0.62 | 1.05 | 1.94 | 1.96 | 0.73 | 14.97 |
| *Albany | 0.10 | T. | 0.22 | 0.55 | 1.76 | 6.22 | 1.83 | 2.30 | 1.16 | 1.73 | 4.50 | 0.60 | 20.97 |
| Alvin | 0.13 | 1.73 | 0.79 | 1.34 | 4.30 | 2.60 | 3.89 | 2.14 | 1.43 | 3.14 | 9.49 | 3.21 | 34.19 |
| *Amarillo | 0.07 | 0.28 | 1.28 | 0.50 | 1.08 | 4.72 | 3.63 | 0.87 | 2.19 | 1.18 | 3.25 | 0.54 | 19.59 |
| Anahuac | ..... | ..... | ..... | ..... | ..... | 3.18 | 4.33 | 1.79 | 0.74 | 7.16 | 3.71 | 2.13 | ..... |
| *Arthur City | 1.24 | 2.62 | 1.54 | 3.50 | 5.73 | 3.98 | 0.30 | 0.90 | 0.99 | 2.16 | 2.46 | 2.78 | 28.20 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Texas*—Continued. | | | | | | | | | | | | | |
| *Austin | 0.06 | 0.57 | 0.50 | 2.34 | 4.06 | 1.92 | 2.86 | 1.20 | 1.20 | 2.22 | 1.84 | 1.80 | 20.57 |
| *Ballinger | 0.50 | 0.00 | 0.14 | 0.06 | 1.68 | 4.72 | 1.82 | 2.33 | 2.67 | 3.65 | 0.99 | 1.16 | 19.72 |
| *Barstow | 0.00 | 0.00 | T. | 0.00 | T. | 0.55 | 4.50 | 0.10 | 0.50 | T. | 0.55 | 0.75 | 6.95 |
| Bay City | | | | | | | | | | 2.32 | 3.09 | 3.08 | |
| *Beaumont | 0.97 | 3.58 | 2.39 | 2.26 | 6.50 | 4.49 | 2.54 | 8.09 | 0.27 | 3.53 | 2.87 | 5.17 | 42.66 |
| *Beeville | 0.00 | 0.54 | 0.84 | 0.79 | 8.64 | 2.79 | 4.17 | 4.35 | 2.66 | 0.62 | 3.09 | 2.32 | 30.81 |
| *Big Springs | 0.02 | T. | 0.42 | 0.01 | 2.17 | 1.62 | 0.65 | 1.23 | 0.70 | 0.79 | 4.01 | 0.64 | 12.26 |
| Blanco | 0.03 | 0.25 | 0.56 | 2.25 | 3.85 | 1.80 | 4.64 | 1.24 | 1.35 | 4.42 | 0.94 | 2.80 | 24.13 |
| Boerne | 0.00 | 0.30 | 1.57 | 2.10 | 3.89 | 1.05 | 6.90 | 0.88 | 1.94 | 1.42 | 2.95 | 2.76 | 25.76 |
| Bonham | 0.31 | 1.84 | 2.62 | 1.90 | 3.89 | 4.09 | 1.73 | 1.56 | T. | 2.55 | 2.07 | 4.42 | 26.98 |
| *Booth | 0.00 | 1.32 | 1.32 | 2.27 | 5.80 | 3.51 | 2.84 | 1.56 | 0.86 | 1.57 | 5.54 | 2.52 | 29.11 |
| *Bowie | 0.07 | 0.16 | 1.17 | 2.08 | 1.40 | 6.40 | 0.85 | 6.35 | 1.66 | 1.07 | 5.60 | 1.02 | 27.83 |
| Brazoria | 0.26 | 1.50 | 0.39 | 2.89 | 4.81 | 6.13 | 7.61 | 2.96 | 1.95 | 3.90 | 3.74 | 3.01 | 39.15 |
| *Brazos | 0.14 | T. | 0.14 | 0.98 | 2.12 | 6.50 | 2.16 | 2.60 | 1.43 | 1.10 | 3.92 | 2.73 | 23.82 |
| *Brenham | 0.07 | 1.44 | 0.82 | 4.38 | 4.43 | 2.96 | 1.73 | 2.83 | 0.99 | 1.81 | 4.11 | 4.85 | 30.42 |
| *Bridgeport | 0.13 | 0.34 | 0.94 | 0.97 | 3.09 | 10.75 | 0.23 | 0.64 | 1.40 | 0.60 | 0.26 | 1.49 | 20.84 |
| Brighton | 0.03 | 1.22 | 0.08 | 1.87 | 2.45 | 3.49 | 0.05 | 2.88 | 1.00 | 0.64 | 1.37 | 1.51 | 16.59 |
| *Brownsville | T. | 1.30 | 0.15 | 0.78 | 3.11 | 3.72 | 1.60 | 5.60 | 1.21 | 0.31 | 0.58 | 2.10 | 20.46 |
| *Brownwood | 0.05 | 0.10 | 1.40 | 0.89 | 3.68 | 1.78 | 0.47 | 1.00 | 1.95 | 3.77 | 2.54 | 0.80 | 18.43 |
| Cameron | 0.20 | 1.26 | 2.19 | 2.59 | 2.36 | 3.20 | 0.03 | 1.67 | 0.32 | 4.17 | 1.09 | 3.20 | 22.28 |
| Canadian | | 0.26 | 0.57 | 0.05 | 2.57 | 5.68 | | | | | 6.07 | | |
| Carmona | 0.78 | 2.41 | 2.48 | 2.70 | 7.27 | 3.32 | 5.54 | 1.59 | 0.73 | 4.28 | 0.79 | 7.42 | 39.31 |
| Channing | 0.00 | 0.36 | 1.10 | | 1.24 | 4.39 | 2.93 | T. | | | | | |
| Childress | T. | | 0.30 | T. | 0.14 | 6.06 | 0.83 | | 1.04 | | 2.45 | 0.40 | |
| Chillicothe | 0.02 | 0.32 | 2.59 | 1.41 | 0.56 | 8.06 | 0.49 | 1.07 | 0.26 | 1.84 | 4.57 | 0.60 | 21.79 |
| Clarendon | 0.40 | T. | 1.46 | T. | 2.74 | 4.21 | 2.02 | 1.12 | 0.60 | 1.22 | 6.63 | 0.65 | 21.05 |
| Clarksville | 1.24 | 1.41 | 2.26 | 2.03 | 3.68 | 5.91 | 3.49 | 1.36 | T. | | 2.75 | 4.72 | |
| Claude | 0.22 | 0.10 | 0.66 | T. | 1.25 | 2.39 | 4.09 | 0.51 | 0.47 | 0.97 | 4.22 | 0.75 | 15.63 |
| Claytonville | T. | 0.00 | 0.30 | 0.30 | 2.78 | 4.13 | 1.95 | 0.79 | 1.10 | 2.39 | 4.18 | 0.35 | 18.27 |
| Coleman | 0.05 | 0.00 | 0.14 | 0.80 | 2.70 | 5.81 | 4.35 | 2.69 | 2.05 | 4.20 | 2.57 | 0.41 | 25.77 |
| *Colorado | 0.03 | 0.02 | 0.37 | 0.06 | 1.33 | 1.01 | 2.75 | 1.69 | 1.18 | 1.33 | 4.58 | 0.86 | 15.21 |
| Columbia | T. | 1.10 | 0.33 | 3.28 | 4.06 | 5.40 | 6.25 | 2.56 | 1.56 | 10.75 | 3.28 | 2.84 | 41.41 |
| *Columbus | T. | 1.44 | 0.19 | 2.14 | 4.56 | 1.40 | 5.02 | 1.18 | 2.36 | 2.18 | 9.01 | 4.04 | 33.52 |
| Comstock | | | | | | | | 0.42 | 0.89 | 0.09 | 1.60 | 0.64 | |
| *Corpus Christi | T. | 0.47 | 0.66 | 0.86 | 3.68 | 1.50 | 0.37 | 3.71 | 1.11 | 0.31 | 0.53 | 0.90 | 14.10 |
| *Corsicana | 0.37 | 1.61 | 1.36 | 1.77 | 2.93 | 4.29 | 0.61 | 0.87 | 0.32 | 4.23 | 1.49 | 3.77 | 23.62 |
| Crockett | 0.45 | 4.26 | 1.66 | 3.37 | 4.60 | 1.95 | 0.88 | 0.32 | 2.27 | 4.61 | 3.89 | 4.86 | 33.12 |
| *Cuero | 0.07 | 0.65 | 0.60 | 4.39 | 4.20 | 1.43 | 4.31 | 1.44 | 0.49 | 1.44 | 2.19 | 2.22 | 23.43 |
| Dalhart | | | 0.71 | 0.17 | 1.64 | 5.10 | 1.27 | 0.65 | 2.12 | 2.60 | 1.21 | 0.15 | |
| *Dallas | 0.33 | 1.35 | 1.22 | 1.01 | 1.05 | 4.41 | T. | 1.58 | 0.32 | 2.22 | 1.91 | 2.58 | 17.98 |
| Danevang | 0.00 | 0.50 | T. | 2.95 | 5.52 | 4.88 | | | | 4.60 | 3.70 | 1.65 | |
| Decatur | 0.12 | T. | 1.65 | 1.42 | 3.99 | 9.29 | 0.22 | 3.65 | 1.50 | 4.28 | 5.10 | 1.55 | 32.77 |
| *Del Rio | 0.01 | 0.32 | 2.18 | 0.75 | 0.74 | 0.81 | 5.70 | 0.31 | 3.16 | 0.06 | 0.40 | 1.14 | 15.58 |
| *Denison | | | | | 3.21 | 1.85 | 0.44 | 0.90 | 0.38 | 2.44 | 1.54 | 3.50 | |
| Devine | | | | | | | | 1.02 | 1.10 | 2.21 | 1.84 | 1.45 | |
| Dialville | 0.37 | 3.36 | 2.45 | 4.39 | 2.15 | 2.28 | 0.63 | 3.92 | 3.05 | 2.80 | 2.05 | 5.94 | 33.39 |
| *Dublin | 0.18 | 0.10 | 0.18 | 0.28 | 2.23 | 5.72 | 1.10 | 5.47 | 0.49 | 3.61 | 3.20 | 2.05 | 24.61 |
| Duval | T. | 0.79 | 1.13 | 3.12 | 3.37 | 2.39 | 2.79 | 1.17 | 2.90 | 3.61 | 2.00 | 2.50 | 25.77 |
| *Eagle Pass | 0.00 | 0.11 | 0.85 | 0.35 | 1.71 | 0.40 | 1.35 | 1.82 | 0.80 | 0.00 | 0.64 | 0.60 | 8.63 |
| Edna | | | | | | | 6.76 | 1.20 | 0.70 | 1.80 | 5.42 | 2.46 | |
| *El Paso | 0.04 | 0.16 | 0.77 | 0.00 | T. | 0.05 | 1.62 | 0.51 | 0.60 | 0.02 | T. | 0.56 | 4.33 |
| Encinal | T. | 0.75 | 0.29 | 0.74 | 4.32 | 0.99 | | 3.27 | 0.00 | 0.50 | | 1.94 | |
| Fairland | | 0.38 | 1.30 | 1.76 | 2.88 | 2.33 | 1.07 | 0.53 | 0.13 | 2.88 | 2.06 | 1.43 | |
| Falfurrias | T. | 0.36 | 0.07 | 1.61 | 2.64 | 4.27 | 2.43 | 11.19 | 1.12 | 0.20 | 0.58 | 0.95 | 25.42 |
| Flatonia | T. | 0.72 | 0.88 | 2.02 | 3.95 | 3.17 | 6.14 | 2.26 | 0.62 | 2.87 | 2.64 | 3.15 | 28.42 |
| *Finley | | | | | | | | | | | | 2.97 | |
| Fort Clark | 0.20 | 0.24 | 0.64 | 3.02 | 1.84 | 0.53 | 3.05 | 0.49 | 2.00 | 0.08 | 1.47 | | |
| Fort McIntosh | 0.00 | 1.12 | 1.21 | 1.07 | 2.08 | 2.75 | 1.61 | 3.27 | 0.00 | 0.42 | 0.54 | 1.26 | 15.33 |
| Fort Stockton | T. | 0.00 | T. | T. | T. | 3.01 | 5.21 | 1.02 | 0.18 | T. | 0.95 | 0.90 | 11.27 |
| *Fort Worth | 0.09 | 0.11 | 0.41 | 1.66 | 1.09 | 2.97 | 0.02 | 2.38 | 2.08 | 2.20 | 5.11 | 2.81 | 20.93 |
| Fredericksburg | 0.21 | 0.11 | 1.49 | 3.18 | 2.89 | 1.45 | 6.71 | 1.76 | 0.15 | 0.78 | 2.19 | 0.94 | 21.86 |
| *Gainesville | 0.40 | 0.00 | 1.09 | 0.84 | 1.53 | 2.64 | 0.72 | 2.57 | 0.57 | 4.07 | 3.76 | 2.18 | 20.37 |
| *Galveston | 0.02 | 1.40 | 1.97 | 3.39 | 5.85 | 3.08 | 0.61 | 4.06 | 2.50 | 7.61 | 1.89 | 2.51 | 34.95 |
| Gatesville | 0.00 | 0.03 | 2.70 | 1.50 | 3.70 | 1.20 | 0.50 | 2.40 | 1.20 | 2.60 | 2.70 | 2.20 | 20.73 |
| Georgetown | 0.07 | 0.92 | 0.83 | 1.66 | 2.54 | 1.51 | 0.65 | 1.00 | 2.36 | 2.48 | 3.73 | 1.93 | 19.68 |
| *Gonzales | 0.00 | 0.70 | 0.36 | 1.82 | 4.61 | 1.22 | 4.19 | 2.42 | 0.30 | 2.24 | 3.64 | 3.03 | 24.53 |
| Gorham | T. | 1.26 | 0.65 | 1.85 | 4.57 | 1.83 | T. | 3.34 | 0.15 | 3.68 | 3.10 | 3.27 | 23.70 |
| *Graham | 0.05 | 0.00 | 0.17 | 0.50 | 1.90 | 3.11 | 2.85 | 5.40 | 0.24 | 1.33 | 4.62 | 1.42 | 21.59 |
| Grand Falls | | T. | 0.20 | | | | | | | | | | |
| Grapevine | 0.20 | 0.96 | 0.82 | 2.20 | 0.63 | 3.05 | 0.77 | 0.63 | 0.72 | 2.55 | 3.57 | 3.56 | 20.26 |
| *Greenville | 0.10 | 2.15 | 1.67 | 2.41 | 1.37 | 2.32 | 1.35 | 0.90 | 0.35 | 3.40 | 2.40 | 3.95 | 22.37 |
| Hallettsville | T. | 0.75 | 0.58 | 0.57 | 8.46 | 1.78 | 8.90 | 0.49 | T. | 1.52 | 5.42 | 3.46 | 31.93 |
| Harper | | | | | | | | | | 1.70 | 1.39 | 0.87 | |
| Haskell | T. | 1.24 | 1.45 | 0.61 | 2.90 | 10.17 | 1.25 | 2.17 | 0.66 | 1.90 | 3.04 | 0.97 | 26.36 |
| Hebbronville | 0.15 | 0.32 | 0.00 | 0.70 | 5.23 | 0.00 | 3.22 | 7.38 | 0.00 | 0.00 | 0.30 | 1.14 | 18.44 |
| *Hempstead | | 0.96 | 1.14 | 2.26 | 8.39 | 1.34 | 1.39 | 1.88 | 0.25 | 1.70 | 0.79 | 3.38 | |
| Henderson | 0.50 | 4.07 | 2.52 | 4.93 | 1.10 | 3.51 | 0.08 | 1.68 | 0.94 | 2.15 | 2.89 | 7.79 | 32.16 |
| *Henrietta | 0.10 | 0.05 | 1.33 | 0.20 | 2.24 | 4.11 | 0.70 | 5.41 | 0.28 | 1.11 | 4.15 | 0.48 | 20.16 |
| Hereford | T. | 0.08 | 1.55 | 0.10 | 2.23 | 2.79 | 2.69 | 1.25 | 1.50 | 1.40 | 1.75 | 0.40 | 15.74 |
| Hewitt | 0.13 | 1.29 | 1.41 | 1.81 | 2.83 | 2.25 | 0.59 | 2.88 | T. | 4.52 | 3.55 | 3.05 | 24.31 |
| Hillsboro | 0.00 | 1.06 | 4.35 | 1.32 | 2.16 | 3.35 | 0.23 | 1.89 | 2.52 | | 2.18 | | |
| Hondo | T. | 0.28 | 0.36 | 1.94 | 3.34 | 2.28 | 2.71 | 1.52 | 0.26 | 1.47 | 1.90 | 1.48 | 17.54 |
| *Houston | 0.07 | 2.25 | 1.02 | 2.29 | 5.64 | 9.52 | 2.53 | 0.78 | 0.48 | 8.22 | 2.68 | 2.32 | 37.80 |
| Hubbard | | 3.37 | | | | | | | | | | | |
| *Huntsville | 0.55 | 2.03 | 2.81 | 3.02 | 10.06 | 2.25 | 1.38 | 0.64 | 0.18 | 3.07 | 2.11 | 4.90 | 33.00 |
| Jewett | 0.20 | 3.20 | 2.17 | 2.32 | 2.75 | 2.07 | 2.79 | 1.91 | T. | 2.97 | 1.71 | 3.37 | 25.46 |
| Junction | | | | | 3.04 | | | | | | | | |
| Kaufman | 0.10 | 0.93 | 2.01 | 1.25 | 2.68 | 5.17 | 0.25 | 1.86 | 2.02 | 2.74 | 1.60 | 5.04 | 25.65 |
| Keene | 0.48 | 0.72 | 0.98 | | | | | | | | 3.75 | 3.43 | |
| *Kerrville | 0.01 | 0.20 | 0.55 | 4.32 | 2.98 | 0.92 | 9.81 | 0.95 | 1.82 | 1.75 | 1.29 | 1.42 | 26.02 |
| Knickerbocker | 0.08 | 0.10 | 0.11 | 0.17 | 0.08 | 4.21 | 3.19 | 0.96 | 1.76 | 3.90 | 1.48 | 0.74 | 16.78 |
| *Kopperl | 0.20 | 0.44 | 1.18 | 0.32 | 2.04 | 2.44 | 1.50 | 4.58 | 1.09 | 3.38 | 4.84 | 5.04 | 27.65 |
| *Lampasas | 0.10 | 0.45 | 2.35 | 1.93 | 2.32 | 3.27 | 0.69 | 1.05 | 1.61 | 3.20 | 1.23 | 2.79 | 20.99 |
| La Parra | 0.00 | 0.25 | | | 3.72 | 2.50 | 1.60 | 8.52 | 0.15 | 0.60 | | 1.50 | |
| Laureles Ranch | | 0.32 | 0.10 | 2.41 | 3.88 | 4.22 | | | 0.00 | 0.67 | 1.72 | 2.18 | |
| *Lewis Ferry | | | | 0.74 | 4.50 | 2.74 | 4.30 | 1.75 | 0.10 | 3.50 | 5.10 | 7.30 | |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Texas*—Continued. | | | | | | | | | | | | | |
| *Liberty | T. | 1.88 | 0.67 | 1.85 | 5.02 | 7.01 | 5.17 | 2.29 | 0.60 | 8.25 | 2.51 | 4.11 | 39.36 |
| Llano | T. | 0.04 | 0.10 | 0.23 | ..... | 2.00 | 1.03 | 0.09 | 2.04 | 1.11 | 1.07 | 1.07 | ..... |
| Llano Grande | T. | 1.02 | T. | 0.90 | 2.00 | 6.45 | 0.11 | 4.80 | 2.02 | ..... | 0.00 | 0.60 | ..... |
| *Long Lake | 0.30 | 1.70 | 2.32 | 3.66 | 0.68 | 1.18 | 0.76 | 0.92 | 0.22 | 3.22 | 1.48 | 3.59 | 20.03 |
| *Longview | 0.45 | 3.74 | 3.18 | 2.49 | 1.85 | 2.41 | 1.45 | 2.15 | 1.46 | 3.25 | 2.30 | 7.38 | 32.11 |
| Lufkin | 0.77 | 4.65 | 2.62 | 4.41 | 5.39 | 3.04 | 3.68 | 1.32 | 2.51 | 2.82 | 1.87 | 6.87 | 39.95 |
| *Luling | 0.10 | 0.37 | 0.57 | 2.26 | 3.40 | 1.38 | 4.96 | 0.95 | 1.18 | 2.51 | 1.29 | 2.29 | 21.26 |
| McLean | 0.09 | T. | 0.85 | 0.17 | 1.46 | 2.52 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *Marble Falls | T. | 0.33 | 0.82 | 2.76 | 3.20 | 2.18 | 2.09 | 1.62 | 0.46 | 3.12 | 2.04 | 2.52 | 21.14 |
| Marfa | T. | 0.00 | ..... | 0.00 | 0.00 | 2.20 | 3.10 | 0.50 | 2.20 | ..... | 0.40 | 1.20 | ..... |
| Marshall | ..... | ..... | ..... | 1.85 | 2.86 | 2.95 | 1.56 | 1.76 | 0.90 | 4.67 | 1.94 | 8.47 | ..... |
| Memphis | T. | T. | 0.40 | ..... | 1.35 | 4.13 | 1.20 | 3.03 | 0.88 | 1.06 | 4.36 | 0.40 | ..... |
| *Mexia | 0.25 | 2.19 | 2.02 | 2.68 | 2.19 | 3.03 | 0.23 | 1.34 | T. | 3.24 | 2.28 | 4.51 | 23.96 |
| Miami | 0.10 | 0.50 | 1.20 | 0.05 | 1.51 | 3.77 | 3.78 | 1.32 | 1.76 | 2.50 | 4.58 | 0.44 | 21.51 |
| Midland | ..... | ..... | ..... | ..... | ..... | ..... | 1.25 | 0.18 | 0.18 | 0.49 | 1.48 | 0.32 | ..... |
| Mobeetie | ..... | T. | ..... | 0.00 | 1.00 | 3.00 | 1.00 | ..... | 1.08 | 2.20 | 5.20 | 0.10 | ..... |
| Mont Belvieu | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 5.53 | 3.09 | 2.33 | ..... |
| Mount Blanco | 0.10 | 0.00 | 1.10 | 0.00 | 1.23 | 1.94 | 1.69 | 2.25 | 0.55 | 2.45 | 5.89 | 0.60 | 17.80 |
| *Nacogdoches | 0.44 | 3.24 | 2.01 | 3.93 | 4.79 | 3.90 | 4.33 | 1.15 | 1.23 | 2.89 | 0.85 | 8.40 | 37.16 |
| Nazareth | T. | 0.10 | 1.38 | 0.10 | 1.75 | 3.57 | 3.18 | 0.18 | 1.16 | 1.00 | 2.92 | ..... | ..... |
| New Braunfels | 0.00 | 0.47 | 0.51 | 1.31 | 2.36 | 1.12 | 3.77 | 1.27 | 0.19 | 4.57 | 2.48 | 1.61 | 19.66 |
| Ochiltree | 0.05 | 0.35 | 1.20 | 0.30 | 3.01 | 5.82 | 2.50 | 0.18 | 0.86 | 2.31 | 3.62 | 0.00 | 20.20 |
| *Palestine | 0.19 | 3.56 | 2.27 | 2.51 | 0.98 | 3.36 | 0.80 | 2.11 | 1.55 | 2.74 | 1.51 | 2.40 | 23.98 |
| Pampa | 0.00 | 0.45 | 1.00 | 0.01 | 1.80 | 6.15 | 3.70 | 2.45 | 0.50 | 2.35 | 5.41 | 0.10 | 23.92 |
| Panter | 0.26 | 0.16 | 0.87 | 0.25 | 1.04 | 0.92 | ..... | 2.08 | 0.54 | 3.14 | 4.69 | 3.84 | ..... |
| Paris | 0.20 | 2.93 | 2.91 | 2.30 | 6.70 | 5.02 | 0.48 | 2.69 | 0.48 | 1.74 | 2.78 | 5.59 | 33.82 |
| *Pearsall | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.91 | T. | 3.85 | T. | 1.49 | ..... |
| Pierce | T. | 0.95 | 0.72 | 1.61 | 5.25 | 3.70 | 5.66 | 1.62 | 0.21 | 2.10 | 4.77 | 2.05 | 28.64 |
| Plainview | T. | T. | 0.97 | T. | 2.18 | 5.09 | 3.37 | 1.15 | 0.37 | 0.98 | 4.52 | 0.27 | 18.90 |
| Plemons | 0.02 | 0.50 | 1.29 | 0.89 | 2.78 | 8.50 | 2.76 | 1.47 | 1.14 | 2.28 | 3.21 | 0.25 | 25.09 |
| Port Lavaca | T. | T. | 0.20 | 0.61 | 13.77 | 3.28 | 5.32 | 1.49 | 2.90 | 3.01 | 3.38 | 2.02 | 35.98 |
| *Quanah | 0.10 | 0.05 | 2.20 | 0.05 | 0.12 | 4.64 | 1.57 | 0.30 | T. | 1.13 | 4.30 | 0.26 | 14.72 |
| Ricardo | ..... | ..... | ..... | ..... | ..... | 5.13 | 0.23 | 7.46 | 0.17 | 0.45 | 1.83 | 1.20 | ..... |
| *Ringo Crossing | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 4.02 | ..... |
| *Riverside | 0.30 | 2.85 | 2.48 | 2.59 | 7.65 | 6.79 | 1.10 | 4.25 | 1.32 | 3.20 | 1.08 | 6.55 | 40.16 |
| Robert Lee | 0.09 | 0.00 | 0.33 | 0.16 | 2.11 | 3.60 | 1.73 | 0.88 | 1.54 | 1.77 | 1.77 | 0.73 | 14.71 |
| *Rockland | 0.40 | 4.21 | 2.25 | 3.39 | 3.98 | 3.37 | 2.53 | 1.35 | 2.50 | 2.16 | 1.98 | 6.21 | 34.33 |
| Rossville | T. | 0.52 | 0.57 | 0.38 | 1.19 | 1.20 | 3.72 | 2.12 | 1.24 | 3.72 | 0.14 | 1.79 | 16.59 |
| Runge | T. | 0.56 | 0.41 | 3.55 | 3.13 | 1.74 | 1.52 | 1.73 | 1.19 | 1.57 | 1.83 | 1.71 | 18.94 |
| Sabinal | 0.10 | 0.36 | 0.72 | 2.11 | 4.14 | 1.30 | 1.40 | 4.26 | 2.17 | 0.36 | 0.99 | 1.43 | 19.34 |
| San Angelo | 0.10 | 0.02 | 0.11 | 0.10 | 2.90 | 1.80 | ..... | ..... | 1.80 | ..... | ..... | 1.15 | ..... |
| *San Antonio | 0.10 | 0.71 | 0.88 | 0.82 | 1.77 | 1.65 | 3.27 | 1.70 | 0.56 | 1.55 | 0.53 | 1.38 | 14.92 |
| San Augustine | ..... | ..... | ..... | ..... | ..... | 2.71 | 1.85 | 1.69 | 0.47 | 2.79 | 2.31 | 6.70 | ..... |
| San Juanito | ..... | ..... | ..... | ..... | 3.21 | 5.40 | 0.02 | 6.08 | 0.00 | 0.10 | 0.12 | 1.01 | ..... |
| *San Marcos | 0.00 | 0.40 | 1.13 | 2.30 | 4.65 | 1.47 | 3.45 | 2.11 | 0.00 | 10.10 | 1.70 | 2.50 | 29.81 |
| San Saba | 0.23 | 0.10 | 0.66 | 2.52 | 2.78 | 8.63 | 0.36 | 0.41 | 2.45 | 1.71 | 2.38 | 1.99 | 24.22 |
| Santa Gertrudes | ..... | 0.00 | 0.00 | 0.92 | 2.54 | ..... | ..... | 5.81 | 0.00 | 0.68 | 0.50 | 1.05 | ..... |
| Seymour | 0.03 | 0.19 | 1.80 | 0.03 | 1.02 | 6.57 | 0.67 | 2.86 | 2.13 | 1.67 | 3.89 | 0.55 | 21.41 |
| *Sherman | 0.46 | 0.91 | 1.53 | 1.56 | 2.72 | 2.63 | 0.12 | 1.93 | 0.90 | 2.01 | 1.87 | ..... | ..... |
| Somerville | ..... | 0.15 | 1.20 | 3.00 | ..... | 2.00 | 0.08 | 0.76 | 1.50 | 4.20 | 3.70 | 2.69 | ..... |
| Sonora | 0.10 | 0.07 | 0.14 | 0.71 | 2.36 | 1.53 | 4.46 | 1.74 | 1.75 | 2.76 | 1.18 | 0.85 | 17.55 |
| Sugar Land | 0.02 | 1.53 | 1.09 | 2.24 | 8.12 | 2.99 | 2.63 | 3.37 | 0.81 | 6.28 | ..... | 2.28 | ..... |
| Sulphur Springs | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.95 | 0.61 | 5.09 | 1.53 | 5.03 | ..... |
| *Taylor | 0.01 | 0.96 | 1.74 | 2.08 | 3.01 | 1.83 | 1.23 | 2.73 | 0.21 | 3.16 | 2.10 | 1.66 | 20.72 |
| *Temple | 0.12 | 1.78 | 1.29 | 2.14 | 3.12 | 2.60 | 0.77 | 4.94 | 0.00 | 3.44 | 4.01 | 2.74 | 26.95 |
| Texline | 0.05 | 0.00 | 1.40 | 0.15 | 3.95 | ..... | ..... | 0.00 | ..... | 1.30 | 1.68 | ..... | ..... |
| Tilden | ..... | ..... | 0.76 | 1.22 | 2.74 | ..... | ..... | 3.20 | 1.06 | 1.78 | T. | 1.84 | ..... |
| Tulia | 0.10 | 0.07 | 1.83 | T. | 1.55 | 8.62 | 3.17 | 0.64 | 0.60 | 1.65 | 4.39 | 0.58 | 22.60 |
| Uvalde | 0.08 | 0.62 | 1.34 | 0.98 | 3.40 | 2.04 | 3.54 | 3.13 | 1.02 | 0.37 | 0.41 | 1.26 | 18.19 |
| *Valley Junction | 0.02 | 2.10 | 1.00 | 2.05 | 1.32 | 2.58 | ..... | 1.00 | 0.60 | 3.40 | 3.84 | 5.60 | ..... |
| *Victoria | 0.00 | 0.25 | 0.22 | 1.50 | 8.10 | 2.73 | 5.22 | 2.51 | 4.25 | 1.05 | 5.52 | 2.23 | 33.58 |
| *Waco | T. | 1.90 | 1.00 | 2.02 | 3.78 | 4.20 | 0.46 | 3.16 | 0.38 | 4.38 | 2.26 | 4.09 | 28.23 |
| *Waxahachie | 0.15 | 1.22 | 1.47 | 0.31 | 2.53 | 2.18 | 2.63 | 1.36 | 0.33 | 2.90 | 3.24 | 3.87 | 22.19 |
| *Weatherford | 0.26 | 0.32 | 0.75 | 2.10 | 1.93 | 1.70 | T. | 2.93 | 1.05 | 1.91 | 2.60 | 6.43 | 21.98 |
| *Wharton | T. | 0.71 | 0.58 | 2.59 | 4.54 | 3.29 | 4.79 | 0.20 | 3.21 | 2.73 | 5.89 | 2.02 | 30.55 |
| Wichita Falls | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.68 | 0.50 | 1.50 | 3.28 | 1.30 | ..... |
| Wills Point | 0.18 | 1.88 | 1.90 | 0.77 | 2.29 | 4.30 | 0.40 | 1.89 | 0.21 | 4.53 | 2.94 | 6.23 | 27.52 |
| Zapata | ..... | 0.65 | 0.05 | 2.21 | 4.22 | 2.19 | 1.01 | 7.50 | 0.05 | 0.12 | 0.37 | 0.63 | ..... |
| *Utah.* | | | | | | | | | | | | | |
| Annabella | 0.98 | 0.75 | 1.25 | 0.81 | 0.15 | 0.01 | 0.58 | 3.27 | 0.64 | 0.14 | 1.33 | 1.78 | 11.69 |
| Beaver | 1.30 | 1.77 | 1.38 | 1.25 | 0.12 | T. | 1.12 | 5.12 | 1.83 | 0.20 | 2.36 | 1.56 | 18.01 |
| Castle Dale | 1.44 | 1.60 | T. | 0.80 | 0.05 | 0.41 | T. | 3.00 | 1.60 | 0.00 | 2.28 | 2.08 | 13.32 |
| Castle Rock | 4.38 | 2.85 | 2.40 | 1.00 | 1.00 | 0.20 | 0.68 | 2.28 | 1.28 | 0.55 | 3.63 | 0.93 | 21.18 |
| Cedar City | 0.77 | 0.67 | 0.63 | 0.84 | ..... | ..... | ..... | ..... | ..... | T. | 2.26 | 0.65 | ..... |
| Corinne | 3.11 | 2.98 | 0.25 | 0.36 | 2.84 | 0.20 | 1.17 | 1.43 | 1.97 | 0.95 | 4.65 | 1.79 | 21.70 |
| Deseret | 0.75 | 0.94 | 0.99 | 1.31 | 0.50 | T. | 1.31 | 1.70 | 0.39 | 0.10 | 0.92 | 0.90 | 9.81 |
| Dragon | ..... | 1.25 | 0.90 | 0.05 | ..... | T. | ..... | 0.72 | ..... | 0.20 | ..... | ..... | ..... |
| Emery | ..... | 1.33 | T. | T. | T. | 0.65 | 0.75 | 5.42 | 3.48 | 0.00 | 0.50 | 1.70 | ..... |
| Enterprise | 1.49 | 3.16 | 1.27 | 0.66 | 0.00 | 0.00 | 0.81 | 2.55 | 2.76 | T. | 2.98 | 0.49 | 16.17 |
| Escalante | 1.31 | 0.90 | 0.23 | 0.05 | 0.03 | 0.00 | 1.63 | 4.21 | 2.61 | 0.00 | 1.40 | 1.24 | 13.61 |
| Farmington | 3.25 | 2.86 | 1.74 | 1.53 | 3.11 | T. | 0.57 | 0.94 | 1.39 | 1.18 | 3.07 | 4.05 | 23.69 |
| Fillmore | 1.12 | 2.66 | 1.23 | 2.91 | 0.35 | 0.02 | 0.79 | 3.02 | 1.81 | 0.51 | 1.61 | 1.22 | 17.25 |
| Fort Duchesne | 2.40 | 1.60 | 0.40 | 0.65 | 0.10 | T. | 0.65 | 1.26 | 0.67 | 0.08 | 1.09 | 0.66 | 9.56 |
| Frisco | 0.60 | 2.50 | 1.08 | 0.31 | 0.00 | 0.00 | 1.30 | 1.87 | 1.14 | 0.00 | 0.89 | 0.33 | 10.02 |
| Garland | ..... | 0.63 | ..... | ..... | 2.59 | 0.56 | 0.64 | 1.07 | 3.02 | 0.44 | ..... | ..... | ..... |
| Garrison | 0.52* | 0.80 | 0.43 | 0.40 | 0.40 | T. | 0.62 | 0.20 | 2.00 | T. | 1.41 | 0.20 | 6.98 |
| Government Creek | 2.24 | 1.88 | 1.70 | 1.49 | 1.41 | 0.79 | 1.06 | 2.75 | 1.24 | 0.35 | 1.39 | 1.61 | 17.91 |
| Grantsville | 0.79 | 0.63 | 1.55 | 1.40 | 1.35 | 0.13 | 0.91 | 2.35 | 1.26 | 0.20 | 2.19 | 1.36 | 14.07 |
| Grayson | 3.65 | 2.70 | 0.90 | T. | 0.55 | 0.00 | 2.00 | 3.78 | 1.40 | 0.40 | 2.80 | 6.43 | 24.61 |
| Green River | 0.05 | 0.23 | 0.00 | 0.29 | ..... | T. | ..... | 1.96 | 0.89 | 0.00 | 0.75 | 0.62 | ..... |
| Heber | 8.81 | 2.25 | 1.31 | 2.58 | 1.00 | 0.16 | 0.57 | 3.04 | 0.71 | 0.20 | 2.86 | 4.43 | 27.92 |
| Henefer | 6.85 | 2.98 | 3.53 | 1.48 | 1.50 | 0.40 | 0.96 | 2.51 | 1.58 | 0.77 | 4.64 | 2.02 | 29.22 |
| Hite | 1.27 | 0.84 | 0.43 | 0.63 | 0.06 | 0.00 | 0.36 | 1.05 | 1.70 | T. | 0.10 | 2.27 | 8.71 |
| Huntsville | 8.28 | 3.77 | 3.42 | 1.52 | 2.22 | 0.03 | 1.97 | 1.70 | 1.75 | 1.08 | 6.15 | 4.36 | 36.25 |
| Ibapah | 0.21 | 0.65 | 1.46 | 0.78 | 0.42 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Utah*—Continued. | | | | | | | | | | | | | |
| Kelton | 1.35 | 1.00 | 0.30 | 0.00 | 2.60 | 0.15 | 0.15 | 0.40 | 2.05 | 0.15 | 1.95 | 1.10 | 11.20 |
| La Sal | 1.19 | ..... | 0.22 | 0.73 | T. | 0.06 | 2.70 | 1.87 | 1.40 | 0.37 | 1.28 | 2.20 | ..... |
| Levan | 2.53 | 1.39 | 1.19 | 2.13 | 0.42 | 0.06 | 1.14 | 2.18 | 0.81 | 0.52 | 1.90 | 3.17 | 17.94 |
| Loa | 0.40 | 1.40 | 0.09 | 0.00 | 0.00 | 0.00 | 0.90 | 2.50 | 0.75 | 0.00 | 0.30 | 0.90 | 7.24 |
| Logan | 2.97 | 2.59 | 2.01 | 0.59 | 2.51 | 0.22 | 0.94 | 1.08 | 2.28 | 1.53 | 3.21 | 2.38 | 22.31 |
| Lucin | 0.14 | 0.65 | 0.07 | T. | 0.10 | T. | 0.11 | 0.21 | 0.20 | 0.21 | 0.90 | 0.90 | 3.49 |
| Manti | 2.25 | 1.05 | 0.80 | 1.80 | 0.23 | 0.32 | 0.77 | 1.99 | 1.85 | 0.68 | 1.60 | 1.86 | 15.20 |
| Marion | 4.61 | 2.72 | 1.98 | 1.77 | 1.23 | 0.26 | 0.67 | 2.79 | 2.50 | 0.75 | 3.82 | 2.40 | 25.50 |
| Marysvale | 1.37 | 0.78 | 0.26 | 0.72 | 0.33 | 0.05 | 2.20 | 2.02 | 1.52 | 0.26 | 2.22 | 1.53 | 13.26 |
| Meadowville | 8.00 | 3.37 | 2.00 | 1.40 | 1.65 | 0.30 | ..... | 1.45 | 2.40 | 0.62 | 3.50 | 0.55 | ..... |
| Milford | 0.49 | 2.05 | T. | 0.20 | 0.00 | 0.02 | 0.55 | 2.75 | 0.03 | 0.00 | 1.34 | 0.80 | 8.14 |
| Millville | 5.31 | 3.33 | 2.27 | 0.58 | 2.75 | 0.28 | 1.32 | 1.55 | 4.05 | 0.89 | 4.81 | 2.28 | 29.42 |
| Moab | 0.94 | 0.70 | 0.56 | 1.16 | 0.09 | T. | 0.50 | 0.84 | 1.17 | 0.18 | 1.56 | 2.02 | 9.72 |
| *Modena | 0.60 | 1.04 | 0.95 | 0.19 | 0.02 | T. | 0.87 | 3.53 | 1.21 | 0.10 | 1.96 | 1.02 | 11.49 |
| Morgan | 10.59 | 5.33 | 3.90 | 1.90 | 2.02 | 0.30 | 2.55 | 3.67 | 3.62 | 1.65 | 5.83 | 3.15 | 44.51 |
| Mount Nebo | 2.32 | 0.61 | 0.92 | 1.21 | 0.69 | T. | 0.71 | 2.77 | 2.27 | 0.32 | 1.42 | 1.11 | 14.35 |
| Mount Pleasant | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.12 | 0.58 | 0.36 | ..... | ..... |
| Nephi | 2.74 | 1.96 | 1.11 | 2.70 | 0.65 | 0.10 | 0.75 | 2.24 | 1.15 | 0.37 | 1.47 | 2.35 | 17.72 |
| Oak City | 1.88 | 1.47 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.21 | 3.73 | ..... |
| Ogden | 4.65 | 3.37 | 2.15 | 1.05 | 3.10 | 0.26 | 1.05 | 1.36 | 2.70 | 0.90 | 4.17 | 3.86 | 28.62 |
| Panguitch | 1.45 | 2.35 | 1.35 | ..... | 0.07 | 0.01 | 0.37 | 2.44 | ..... | ..... | ..... | ..... | ..... |
| Park City | 4.07 | 10.53 | ..... | ..... | 2.14 | 0.31 | 2.66 | 4.04 | 1.30 | 1.30 | 4.80 | 4.68 | ..... |
| Parowan | 1.10 | 2.35 | 1.16 | 0.77 | 0.20 | 0.13 | 1.62 | 4.59 | 1.16 | 0.00 | 0.94 | 1.29 | 15.31 |
| Payson | 4.05 | 2.04 | 2.66 | 3.88 | 2.16 | 0.02 | 0.46 | 1.73 | 1.56 | 0.82 | 3.42 | 2.48 | 25.28 |
| Pinto | 2.50 | 1.04 | 0.79 | 0.29 | 0.18 | 0.00 | 1.13 | 3.33 | 2.46 | 0.00 | 3.50 | 2.77 | 18.59 |
| Provo | 4.93 | 1.63 | 1.24 | 2.84 | 1.12 | 0.25 | 0.47 | 2.03 | 1.31 | 0.57 | 2.26 | 1.35 | 20.00 |
| Ranch | 4.44 | 5.36 | 2.55 | T. | T. | T. | 1.46 | 7.68 | 3.80 | 0.00 | 4.67 | 4.89 | 34.85 |
| Randolph | 1.82 | 0.38 | 0.65 | 0.55 | 0.91 | 0.38 | 0.84 | 1.97 | 1.25 | T. | 2.12 | 0.59 | 11.46 |
| Richfield | 1.25 | 1.10 | 0.50 | 1.00 | 0.50 | 0.10 | 0.61 | 2.59 | 1.08 | 0.60 | 2.03 | 1.46 | 12.82 |
| St. George | 1.30 | 1.55 | 1.16 | 0.22 | 0.37 | 0.00 | ..... | 2.72 | 2.33 | 0.00 | 1.92 | 1.93 | ..... |
| Saltair | 2.04 | 1.46 | 2.44 | 0.70 | 2.41 | ..... | 1.88 | 1.26 | 1.92 | 0.59 | 2.14 | 1.94 | ..... |
| *Salt Lake City | 2.70 | 1.89 | 2.85 | 1.60 | 2.34 | 0.17 | 0.75 | 1.74 | 1.55 | 1.13 | 1.46 | 1.50 | 19.68 |
| Scipio | 3.34 | 3.11 | 1.41 | 2.61 | 0.66 | T. | 1.52 | 2.10 | 1.16 | 0.28 | 2.66 | 2.96 | 21.81 |
| Scofield | 18.38 | 5.40 | 2.47 | 7.49 | 3.34 | 0.58 | 4.12 | 10.15 | 3.21 | 0.26 | 5.55 | 3.31 | 64.26 |
| Silver Lake | ..... | ..... | ..... | ..... | ..... | 0.48 | 1.04 | 4.14 | 3.75 | 2.17 | ..... | ..... | ..... |
| Snowville | 2.17 | 1.00 | 1.00 | 0.39 | 2.05 | 0.25 | 0.50 | ..... | ..... | ..... | ..... | ..... | ..... |
| Springdale | 3.12 | ..... | 1.50 | 0.30 | T. | 0.20 | 3.12 | 4.27 | 1.17 | 0.00 | 1.85 | ..... | ..... |
| Strawberry Valley | 9.10 | 6.50 | 1.85 | 3.35 | 1.06 | T. | 1.04 | 2.41 | 1.93 | 0.68 | 5.09 | 5.00 | 38.01 |
| Sunnyside | 2.65 | 1.45 | 0.80 | 0.69 | 0.61 | ..... | 1.64 | 3.13 | 1.92 | T. | 0.17 | 1.00 | ..... |
| Theodore | 1.15 | 1.00 | 0.15 | 0.42 | 0.26 | 0.26 | 1.27 | 2.38 | 2.72 | 0.09 | 1.00 | 0.97 | 11.67 |
| Thistle | 3.95 | 3.02 | 0.97 | 0.21 | T. | 0.00 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Tooele | 1.94 | 2.36 | 2.75 | 2.09 | 1.73 | 0.18 | 1.90 | 2.93 | 2.54 | 0.44 | 2.12 | 1.99 | 22.97 |
| Tropic | 0.15 | 0.25 | 0.12 | 0.01 | T. | T. | 0.91 | 5.39 | 2.45 | T. | 1.79 | 3.62 | 14.69 |
| Utah Lake | 3.02 | 1.72 | 1.24 | 2.08 | 1.62 | 0.21 | 1.28 | 2.57 | 1.36 | 0.47 | 1.26 | 2.32 | 19.15 |
| Vernal | 1.64 | 0.52 | 0.16 | 0.62 | 0.08 | 0.17 | 0.87 | 1.97 | 1.48 | 0.15 | 1.10 | 0.86 | 9.62 |
| Wellington | ..... | 1.80 | 0.00 | ..... | ..... | ..... | ..... | ..... | ..... | 0.00 | 1.10 | 2.30 | ..... |
| *Vermont.* | | | | | | | | | | | | | |
| Bloomfield | 4.11 | 4.02 | 1.79 | 4.50 | 4.39 | 2.40 | 3.25 | 2.05 | 5.57 | 1.68 | 1.79 | 0.93 | 36.48 |
| *Burlington | 2.38 | 4.18 | 1.81 | 2.67 | 5.58 | 3.57 | 4.06 | 2.83 | 4.36 | 1.13 | 1.66 | 1.53 | 35.76 |
| Cavendish | 3.46 | 4.02 | 2.01 | 2.36 | 3.13 | 3.98 | 2.05 | 3.83 | 4.45 | 1.31 | 2.07 | 2.63 | 35.30 |
| Chelsea | 3.65 | 6.02 | 1.60 | 2.86 | 3.47 | 3.36 | 2.08 | 2.96 | 3.22 | 0.41 | ..... | 1.31 | ..... |
| Cornwall | 2.62 | 3.77 | 1.70 | 1.93 | 5.74 | 3.03 | 2.79 | 3.28 | 3.24 | 0.94 | 1.54 | 1.27 | 31.85 |
| Enosburg Falls | 4.26 | 3.98 | 1.67 | 3.89 | 5.00 | 2.43 | 3.10 | 3.26 | 4.73 | 1.49 | 3.33 | 1.51 | 38.65 |
| Jacksonville | 4.40 | 4.47 | 1.67 | 2.63 | 4.47 | 2.85 | 1.68 | 3.90 | 5.45 | 4.95 | 2.39 | 0.88 | 39.74 |
| Manchester | 4.23 | 5.35 | 2.19 | 2.53 | 5.05 | 3.66 | 2.08 | 3.32 | 4.60 | 2.35 | 1.41 | 1.61 | 38.38 |
| *Northfield | 3.55 | 4.85 | 1.85 | 2.43 | 3.54 | 2.94 | 2.53 | 2.53 | 3.05 | 1.47 | 2.02 | 1.58 | 32.34 |
| Norwich | 4.57 | 4.88 | 2.17 | 2.74 | 3.22 | 2.79 | 1.70 | 3.97 | 3.76 | 1.38 | 2.20 | 2.25 | 35.63 |
| St. Johnsbury | 2.86 | 1.93 | 0.72 | 3.51 | 4.28 | 3.33 | 2.83 | 2.47 | 3.73 | 1.06 | 1.97 | 1.09 | 29.79 |
| Wells | 4.22 | 5.33 | 2.29 | 3.30 | 4.91 | 2.86 | 1.76 | 3.68 | 4.08 | 1.19 | 1.84 | 1.92 | 37.38 |
| Woodstock | 4.46 | 5.14 | 2.91 | 2.24 | 4.28 | 3.57 | 2.27 | 3.89 | 3.92 | 1.20 | 2.15 | 2.75 | 38.78 |
| *Virginia.* | | | | | | | | | | | | | |
| Arvonia | 2.65 | 3.42 | 3.12 | 2.91 | 4.00 | 3.84 | 1.72 | 2.17 | 2.50 | 0.77 | 0.91 | 3.53 | 31.54 |
| Ashland | 1.25 | 2.41 | 4.79 | 2.99 | 3.86 | 7.60 | 1.91 | 2.85 | 3.16 | 1.49 | 1.02 | 2.84 | 36.08 |
| Big Stone Gap | 5.26 | 5.86 | 5.72 | 4.70 | 3.87 | 10.57 | 4.37 | 1.53 | 3.03 | 2.22 | 1.86 | 2.72 | 51.71 |
| Blacksburg | 3.32 | 2.02 | 2.87 | 3.57 | 6.29 | 2.82 | 3.47 | 3.12 | 3.87 | 2.24 | 0.48 | 2.20 | 36.27 |
| *Buchanan | 2.30 | 2.55 | 1.71 | 2.07 | 4.73 | 2.90 | 3.60 | 2.49 | 3.77 | 3.53 | 0.41 | 2.92 | 32.98 |
| Burkes Garden | 3.04 | 3.79 | 7.04 | 3.96 | 4.59 | 7.06 | 5.91 | 3.09 | 5.50 | 2.60 | 0.45 | 2.14 | 49.17 |
| Callaville | 2.87 | 3.48 | 3.26 | 3.11 | 4.71 | 9.67 | 5.78 | 5.20 | 3.59 | 1.39 | 0.94 | 1.67 | 45.67 |
| *Cape Henry | 1.73 | 2.56 | 1.20 | 3.11 | 3.86 | 6.26 | 3.93 | 3.91 | 0.78 | 1.03 | 0.49 | 1.76 | 30.62 |
| Catawba | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.70 | 0.30 | 1.50 | ..... |
| *Charlottesville | 2.87 | 4.12 | 2.68 | 1.75 | 3.29 | 6.05 | 0.54 | 2.40 | 1.21 | 1.08 | 0.60 | 3.52 | 30.11 |
| *Clarksville | 1.85 | 3.72 | 2.37 | 2.74 | 4.37 | 10.23 | 2.98 | 8.75 | 3.46 | 1.15 | 0.50 | 3.35 | 45.47 |
| *Columbia | 3.54 | 3.34 | 3.23 | 4.07 | 3.85 | 5.80 | ..... | 1.92 | 2.46 | 0.74 | 1.28 | 2.95 | ..... |
| Culpeper | 2.47 | 3.34 | 2.60 | 2.47 | 2.96 | 8.31 | 0.94 | 2.66 | 2.11 | 1.07 | 0.73 | 3.58 | 33.24 |
| Dale Enterprise | 1.60 | 2.04 | 1.94 | 3.07 | 4.06 | 5.91 | 2.36 | 1.84 | 0.95 | 2.93 | 0.90 | 2.73 | 30.93 |
| *Danville | 1.99 | 2.55 | 2.32 | 1.81 | 4.58 | 5.17 | 5.40 | 9.70 | 2.48 | 1.44 | 0.21 | 2.20 | 39.85 |
| Dinwiddie | 2.58 | 3.66 | 2.82 | 3.62 | ..... | 6.92 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Doswell | ..... | ..... | ..... | 3.11 | ..... | ..... | ..... | 6.35 | 2.18 | ..... | 0.81 | ..... | ..... |
| Eastville | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.44 | 2.13 | ..... |
| Elk Knob | 4.40 | 5.10 | 5.80 | 5.16 | 3.20 | 10.76 | 3.20 | 2.02 | 2.73 | 2.06 | 1.54 | 2.69 | 48.66 |
| Fredericksburg | 3.65 | 3.13 | 3.98 | 3.23 | 3.25 | 9.20 | 2.36 | 5.33 | 2.20 | 0.79 | 1.07 | 3.46 | 41.65 |
| Galax | 2.32 | 3.08 | 3.00 | 4.60 | 5.47 | 2.71 | 2.66 | 3.24 | ..... | 3.17 | 0.56 | 2.78 | ..... |
| Hampton | 1.67 | 2.68 | 1.97 | 3.50 | 4.40 | 8.60 | 4.22 | 5.39 | 1.18 | 1.51 | 0.77 | 1.48 | 37.77 |
| Hot Springs | 2.86 | 3.45 | 3.42 | 4.95 | 4.65 | 3.83 | 3.49 | 1.90 | 2.37 | 3.56 | 1.09 | 2.48 | 38.05 |
| Ivanhoe | 2.53 | 2.91 | 3.70 | 2.47 | 6.95 | 5.00 | 2.44 | 3.15 | 3.60 | 2.18 | 0.44 | 2.76 | 38.13 |
| Ivor | 2.14 | 2.50 | 3.16 | ..... | 3.77 | 7.05 | 5.47 | 4.50 | 2.35 | 1.05 | 0.90 | 0.50 | ..... |
| Lebanon | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.34 | 0.59 | 2.16 | ..... |
| Lexington | 1.66 | 3.56 | 3.30 | 3.11 | 4.74 | 5.62 | 4.32 | 0.98 | 1.96 | 2.72 | 0.97 | 2.78 | 35.72 |
| Lincoln | 2.62 | 4.31 | 2.25 | 3.90 | 3.46 | 7.37 | 0.69 | 2.84 | 3.64 | 1.36 | 0.81 | 3.11 | 36.36 |
| *Lynchburg | 1.36 | 3.09 | 2.37 | 2.38 | 4.58 | 4.95 | 1.85 | 3.20 | 2.65 | 1.46 | 0.52 | 2.79 | 31.20 |
| Marion | 2.65 | 3.26 | 5.91 | 2.44 | 2.42 | 5.53 | 4.01 | 2.31 | ..... | 2.01 | 0.36 | 1.87 | ..... |
| Max Meadows | ..... | 2.11 | ..... | 2.50 | 4.22 | ..... | 2.17 | ..... | ..... | 3.13 | 0.56 | 1.72 | ..... |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Virginia*—Continued. | | | | | | | | | | | | | |
| *Mendota | 2.37 | 4.52 | 6.23 | 3.82 | 5.27 | 8.13 | 5.74 | 4.76 | 2.62 | 1.58 | 1.17 | 2.85 | 49.06 |
| *Mount Weather | 2.84 | 3.42 | 1.88 | 4.74 | 2.99 | 5.91 | 0.97 | 2.64 | 2.58 | 1.90 | 0.97 | 2.93 | 33.77 |
| *New Castle | 2.77 | 3.64 | 2.56 | 4.48 | 8.48 | 4.25 | 3.42 | 2.69 | 3.49 | 1.94 | 0.16 | 1.12 | 39.00 |
| Newport News | 2.34 | 2.78 | 2.22 | 4.72 | 4.90 | 8.64 | 5.27 | 5.58 | 1.99 | 1.86 | 1.10 | 2.12 | 43.52 |
| Nokesville (near) | 1.43 | 3.10 | 2.69 | 3.69 | 4.62 | 3.85 | 0.78 | 2.97 | 3.34 | 0.89 | 0.67 | 2.50 | 30.53 |
| *Norfolk | 1.49 | 2.99 | 1.35 | 3.11 | 4.20 | 6.00 | 4.41 | 5.81 | 0.56 | 1.43 | 0.52 | 1.91 | 33.78 |
| Norfolk (near) | | | 1.62 | 4.45 | 4.54 | 6.83 | 5.67 | 3.82 | 1.11 | 1.20 | 0.81 | 2.67 | |
| Petersburg | 1.97 | 3.06 | 3.71 | 3.21 | 4.11 | 6.67 | 3.55 | 5.37 | 3.77 | 2.04 | 1.28 | 2.56 | 41.20 |
| Quantico | 2.92 | 2.98 | 3.92 | 2.43 | 3.77 | 5.52 | 0.73 | 1.59 | 4.10 | 0.68 | 1.32 | 2.87 | 32.83 |
| *Radford | 3.48 | 3.88 | 4.02 | 3.78 | 8.80 | 4.24 | 6.82 | 4.34 | 3.68 | 3.06 | 0.11 | 2.38 | 48.59 |
| *Randolph | 1.21 | 2.45 | 2.44 | 2.11 | 5.10 | 4.34 | 3.09 | 6.76 | 3.04 | 1.48 | 0.13 | 2.75 | 34.90 |
| *Richmond | 3.00 | 2.94 | 4.13 | 3.21 | 3.41 | 4.59 | 1.25 | 4.01 | 2.89 | 0.77 | 0.62 | 3.39 | 34.21 |
| *Rocky Mount | 1.68 | 3.41 | 2.48 | 3.23 | 7.45 | 5.08 | 3.42 | 4.68 | 2.23 | 2.38 | 0.30 | 3.30 | 39.64 |
| Sabot | 1.08 | 1.43 | 4.26 | 3.96 | 3.17 | 6.11 | 1.25 | 4.31 | 3.66 | 1.20 | 0.71 | | |
| Saxe | 1.92 | 3.28 | 2.97 | 3.60 | 4.39 | 3.40 | 3.39 | 4.99 | 3.44 | 1.30 | 1.54 | 2.64 | 36.86 |
| Shenandoah | 1.36 | 1.93 | 1.98 | 3.07 | 3.06 | 2.70 | 1.33 | 4.90 | 2.14 | 2.13 | 1.00 | 1.99 | 27.59 |
| *Speers Ferry | 4.21 | 5.78 | 5.12 | 3.84 | 3.69 | 8.99 | 6.36 | 2.92 | 3.10 | 2.42 | 1.12 | 3.44 | 50.99 |
| Spottsville | 2.80 | 2.59 | 4.59 | 4.93 | 3.36 | 8.82 | 5.33 | 5.08 | 3.45 | 2.14 | 0.70 | 2.52 | 46.31 |
| *Staunton | 2.81 | 2.55 | 2.23 | 3.11 | 3.92 | 7.09 | 1.95 | 3.26 | 3.10 | 3.00 | 1.15 | 2.99 | 37.16 |
| Stephens City | 2.05 | 3.35 | 2.33 | 3.45 | 3.43 | 2.79 | 1.06 | 2.48 | 3.73 | 2.21 | 0.49 | 2.23 | 29.60 |
| Warsaw | 2.80 | 3.61 | 7.98 | 2.96 | 3.39 | 7.41 | 2.25 | 7.09 | 1.45 | 1.27 | 1.58 | 2.75 | 44.54 |
| Williamsburg | 2.68 | 3.16 | 4.93 | 4.06 | 4.28 | 9.60 | | 6.95 | 2.56 | 1.55 | 0.35 | 2.68 | |
| *Woodstock | 2.26 | 2.66 | 1.79 | 3.11 | 3.72 | 5.96 | 1.54 | 3.45 | 2.48 | 2.47 | 0.44 | 2.16 | 32.04 |
| *Wytheville | 2.53 | 2.21 | 3.81 | 3.73 | 4.65 | 6.33 | 2.67 | 2.49 | 2.83 | 3.06 | 0.57 | 2.02 | 36.90 |
| *Washington.* | | | | | | | | | | | | | |
| Aberdeen | 14.05 | 14.75 | 7.28 | 2.09 | 4.23 | 2.32 | 2.45 | 1.26 | 1.54 | | 26.76 | 8.68 | |
| Anacortes | 2.63 | 3.47 | 1.62 | 0.79 | 0.85 | 1.32 | 1.76 | 0.26 | 1.33 | 2.22 | 8.43 | 2.82 | 27.50 |
| Baker | 7.40 | 7.72 | 4.24 | 2.94 | 2.02 | 1.31 | 1.33 | 0.85 | 3.48 | 5.94 | 19.10 | 6.90 | 63.23 |
| Bellingham | 3.13 | 3.77 | 1.75 | 0.94 | 1.23 | 1.00 | 1.53 | 0.98 | 1.72 | 3.21 | 7.61 | 2.02 | 28.89 |
| *Blaine | 5.54 | 6.04 | 2.93 | 0.91 | 1.78 | 1.41 | 2.06 | 2.47 | 1.62 | 3.85 | 10.88 | 4.48 | 43.97 |
| Blewett | | | | | | | | | | | 13.00 | 4.30 | |
| Bremerton | 7.17 | 8.38 | 1.94 | 0.67 | 2.09 | 1.24 | 0.57 | 0.17 | 0.69 | 2.75 | 13.64 | 4.78 | 44.29 |
| Cedar River | 6.77 | 6.20 | 3.06 | 2.52 | 3.43 | 0.72 | 1.87 | 0.51 | 2.75 | 4.22 | 16.75 | 4.30 | 52.90 |
| Centralia | 10.54 | 7.71 | 2.43 | 1.35 | 1.63 | 0.38 | 2.78 | 0.20 | 0.98 | 3.59 | 14.86 | 5.63 | 52.08 |
| Cheney | 4.17 | 2.45 | 0.02 | 0.97 | 1.48 | 0.56 | 1.99 | 0.00 | 0.27 | 0.64 | 2.59 | 0.30 | 15.44 |
| Chopaka | 1.63 | 1.48 | 0.51 | 0.15 | 1.41 | 0.68 | 2.54 | 0.03 | 1.23 | 0.81 | 1.73 | | |
| Clearbrook | | 6.28 | 3.83 | 1.60 | 2.18 | 1.65 | 2.72 | 1.79 | 1.92 | 6.08 | 14.89 | 3.95 | |
| Clearwater | 12.90 | 16.90 | 11.88 | 4.66 | 6.53 | 3.91 | 3.36 | 4.28 | 4.51 | 12.10 | 25.87 | | |
| Cle Elum | 3.25 | 2.36 | 1.73 | 0.25 | 0.14 | 0.61 | 0.32 | 0.06 | 2.25 | 1.27 | 8.02 | 2.39 | 23.25 |
| Colfax | 2.74 | 3.20 | 0.88 | 1.48 | 1.45 | 0.93 | 2.85 | 0.00 | 0.66 | 1.87 | 3.79 | | |
| Colville | 3.70 | 2.43 | 0.47 | 0.54 | 1.71 | 1.15 | 1.90 | T. | 1.64 | 1.32 | 3.19 | 1.91 | 19.96 |
| Conconully | 3.81 | 2.36 | 0.59 | 0.08 | 2.08 | 0.54 | 1.92 | T. | 1.56 | 0.93 | 3.20 | 1.80 | 18.87 |
| Coupeville | 3.07 | 2.21 | 1.71 | 0.47 | | | | | | | | | |
| Crescent | 2.34 | 1.84 | 0.35 | 0.27 | 1.83 | 0.56 | 2.07 | 0.03 | 0.52 | 1.28 | 3.22 | 1.70 | 16.01 |
| Davenport | | | | 0.15 | 1.57 | 0.18 | 1.13 | 0.02 | 0.59 | 1.20 | 2.54 | 0.81 | |
| Dayton | 4.10 | 2.99 | 1.35 | 1.52 | 1.36 | 0.90 | 2.05 | 0.18 | 0.90 | 2.62 | 5.20 | 1.75 | 24.92 |
| Detroit | 8.78 | 10.82 | 2.92 | 0.66 | 2.04 | 0.86 | 1.78 | 0.42 | 0.84 | 4.31 | 21.80 | 7.57 | 62.80 |
| Dixie | | | | | | | 3.95 | 0.20 | 1.96 | 5.06 | 14.03 | 4.83 | |
| Duckabush | 21.07 | 24.19 | 8.73 | 0.88 | 3.22 | 2.86 | 1.64 | 0.34 | 1.02 | 11.76 | 33.86 | 9.91 | 119.48 |
| East Sound | 4.41 | | 1.55 | | | | | | | | | | |
| Ellensburg | 2.31 | 0.86 | 0.36 | T. | 0.26 | 0.41 | 0.89 | 0.00 | 0.56 | 0.58 | 2.71 | 1.08 | 10.02 |
| Ephrata | | 0.90 | 0.10 | 0.00 | 1.05 | 0.43 | 0.43 | 0.09 | 0.30 | | | | |
| Forks | 24.62 | 22.18 | | | | | | | | | | | |
| Fort Simcoe | 5.45 | 2.12 | 0.59 | 0.10 | 0.01 | 0.45 | 0.66 | 0.00 | 0.40 | 0.51 | 5.71 | 2.12 | 18.12 |
| Goat Lake | | | | | | | 2.49 | 2.63 | 6.39 | 7.77 | 40.59 | 8.70 | |
| Gold Creek | | | | | | | 0.48 | 0.00 | 1.00 | 0.51 | 3.96 | 1.95 | |
| Goldendale | | | | | | | | 0.00 | 0.38 | 1.43 | 5.03 | 3.35 | |
| Granite Falls | 6.04 | 6.76 | 4.76 | 3.40 | 3.80 | 1.67 | 2.39 | 0.96 | 2.83 | 6.41 | 8.74 | 4.16 | 51.92 |
| Hatton | 1.26 | 1.07 | 0.35 | 0.15 | 0.53 | 0.84 | 0.59 | 0.00 | 0.49 | 0.62 | 2.15 | 0.90 | 8.95 |
| Huntsville | 3.02 | 2.60 | 0.88 | 0.76 | 0.99 | 0.71 | 1.63 | 0.04 | 0.68 | 1.62 | 3.96 | 1.98 | 18.87 |
| Irene Mountain | | | | | | | 3.61 | 0.03 | 1.08 | 0.87 | 0.90 | 0.64 | |
| Kennewick | 0.99 | 0.45 | 0.02 | 0.03 | 0.37 | 0.06 | 0.15 | T. | | 0.72 | 2.01 | 0.93 | |
| Kettle Falls | | | 0.70 | 0.12 | 1.87 | 1.36 | 1.72 | 0.00 | 1.69 | 1.59 | 3.67 | 1.58 | |
| Kiona | 1.59 | 0.75 | 0.15 | 0.05 | 0.18 | 0.29 | 0.39 | 0.00 | 0.03 | 0.36 | 1.72 | 1.31 | 6.82 |
| Kosmos | 9.24 | 5.28 | 3.80 | 3.08 | 3.46 | 0.70 | 0.87 | 0.14 | 2.17 | 3.44 | 17.80 | 5.20 | 55.18 |
| La Center | 8.88 | 8.17 | 2.90 | 1.48 | 1.69 | 0.32 | 2.04 | 0.14 | 2.38 | 3.33 | 14.00 | 4.41 | 49.74 |
| La Crosse | 2.77 | 1.73 | 0.45 | 0.61 | 1.52 | 0.36 | 1.84 | 0.04 | 0.71 | 1.49 | 4.36 | 2.22 | 18.10 |
| Lake Cle Elum | 3.68 | 2.98 | 0.93 | 0.98 | 0.38 | 0.31 | 0.24 | T. | 3.68 | 1.99 | 12.42 | 3.75 | 31.24 |
| Lake Kachess | 8.70 | 5.52 | 3.59 | 2.76 | 0.83 | 0.92 | 0.53 | 0.16 | 3.77 | 2.41 | 19.99 | 6.91 | 56.09 |
| Lake Keechelus | 9.07 | 7.15 | 4.78 | 3.88 | 1.75 | 1.20 | 0.55 | 0.36 | 4.33 | 3.26 | 21.17 | 7.30 | 64.80 |
| Lakeside | 2.10 | 1.51 | 0.57 | 0.00 | 0.43 | 0.31 | 0.74 | T. | 0.99 | 0.90 | 3.64 | 1.61 | 12.80 |
| Laurel | | | | | | | 0.73 | 0.00 | 0.95 | 2.94 | 13.73 | 5.05 | |
| Lester | 5.92 | 4.22 | 4.05 | 4.05 | 2.30 | 0.60 | 0.80 | 0.30 | 4.05 | 3.33 | 14.50 | 3.70 | 47.82 |
| Lone Tree | | 13.55 | 5.78 | 1.27 | 4.16 | 2.59 | 1.77 | 1.16 | 0.99 | 7.60 | 22.44 | 7.19 | |
| Longmires Springs | 10.34 | 12.00 | 3.46 | 2.90 | 2.00 | 0.75 | | | | | 12.02 | 5.10 | |
| Lost Creek | | | | | | | 2.25 | 0.00 | 1.24 | 0.91 | 2.32 | 1.10 | |
| Lucerne | | | 0.70 | 0.01 | 0.30 | | | | | | | | |
| Lyle | 6.03 | 3.08 | 0.64 | 0.23 | 0.18 | 0.62 | 0.25 | T. | 1.07 | 1.72 | 11.59 | 4.30 | 29.71 |
| McCumbers Ranch | | | | | | | | 0.00 | | | | 2.71 | |
| Mottinger | 1.45 | 0.82 | 0.34 | 0.49 | 0.21 | T. | 0.22 | 0.00 | 0.16 | 0.89 | 1.48 | 0.93 | 6.99 |
| Mount Pleasant | 8.08 | 6.72 | 3.75 | 2.79 | 3.74 | 0.38 | 2.54 | 0.63 | 2.37 | 3.45 | 15.71 | 3.76 | 53.92 |
| Moxee | 1.25 | 0.56 | 0.29 | 0.02 | 0.45 | 0.52 | 0.65 | 0.00 | 0.39 | 0.41 | 1.85 | 0.85 | 7.24 |
| *North Head | 8.43 | 10.14 | 3.50 | 1.51 | 2.45 | 1.33 | 1.61 | 0.35 | 1.27 | 5.14 | 13.97 | 5.24 | 54.94 |
| *Northport | 2.04 | | | 0.35 | 2.47 | 1.45 | 3.08 | T. | | 2.06 | 2.91 | 1.14 | |
| *North Yakima | 1.84 | 1.13 | 0.18 | | | | | | 0.74 | 0.32 | 1.76 | 0.93 | |
| Nutland | | | 0.32 | 0.04 | 0.23 | 0.20 | 0.10 | 0.00 | 0.29 | 0.73 | 3.78 | 1.56 | |
| Odessa | | | 0.60 | T. | 2.00 | 0.15 | 0.52 | 0.00 | 0.14 | 0.87 | 2.29 | 0.79 | |
| Olga | 3.18 | 3.16 | 2.21 | 0.67 | 1.35 | 0.65 | 2.63 | 0.90 | 1.59 | 2.48 | 9.45 | 2.47 | 30.14 |
| Olympia | 10.79 | 10.79 | 3.02 | 0.77 | 2.02 | 0.77 | 1.22 | 0.21 | 1.14 | 4.27 | 19.94 | 6.30 | 61.24 |
| Omak | | 0.55 | 0.20 | | 1.56 | 1.80 | 1.06 | T. | 0.39 | 0.55 | 1.68 | 1.42 | |
| Oroville | | | 0.09 | 0.04 | 1.35 | | 2.66 | T. | 1.60 | 0.98 | 1.04 | 0.55 | |
| Peola | | | | | | | 2.30 | 0.16 | 1.33 | 1.44 | 6.69 | 1.30 | |
| Pomeroy | 3.00 | 1.90 | 0.45 | 1.60 | 1.35 | 0.15 | 1.25 | | 1.00 | | | 1.55 | |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Washington*—Continued. | | | | | | | | | | | | | |
| *Port Crescent | 8.17 | 5.03 | 2.49 | 0.33 | 1.76 | 0.92 | 1.55 | 1.34 | 0.68 | 3.08 | 15.37 | 4.83 | 45.55 |
| Port Townsend | 2.82 | 2.81 | 1.29 | 0.40 | 0.85 | 0.59 | 0.86 | 0.19 | 1.09 | 1.33 | 3.90 | 1.93 | 18.06 |
| Pullman | 4.21 | 2.95 | 0.73 | 1.62 | 1.52 | ..... | ..... | 0.05 | 0.85 | 2.23 | 5.67 | 1.83 | ..... |
| Quinlault | 22.04 | 27.11 | 11.23 | 2.91 | 7.65 | 4.43 | 3.37 | 3.19 | 3.97 | 13.78 | 42.29 | 15.08 | 157.05 |
| Republic | 1.86 | 2.53 | 0.49 | 0.32 | 2.41 | 1.34 | 2.43 | T. | 1.24 | 1.16 | 2.13 | 1.06 | 16.97 |
| Rex Creek | 6.36 | 2.97 | 1.08 | 0.03 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Ritzville | 2.05 | 1.09 | 0.42 | 0.12 | 1.88 | 0.40 | 0.93 | 0.00 | 0.20 | 0.83 | 2.94 | 1.33 | 12.19 |
| Rock Lake | 3.03 | 2.39 | 1.11 | 0.45 | ..... | 0.52 | 1.61 | 0.00 | ..... | ..... | 4.17 | 1.22 | ..... |
| Rosalia | 3.15 | 1.77 | 0.61 | 0.71 | 1.69 | 0.96 | 2.18 | 0.08 | 0.22 | 2.26 | 4.55 | 2.10 | 20.28 |
| Russells Ranch | ..... | ..... | ..... | 1.13 | 0.20 | 0.11 | 0.75 | T. | 9.28 | 1.02 | 11.22 | 3.70 | ..... |
| *Seattle | 6.90 | 4.35 | 1.08 | 0.77 | 1.60 | 0.64 | 0.35 | 0.27 | 1.10 | 2.86 | 9.11 | 2.69 | 31.72 |
| Sedro Woolley | 3.49 | 4.90 | ..... | 2.00 | 2.01 | 0.49 | 1.86 | 0.35 | 2.53 | 5.50 | 11.18 | 4.75 | ..... |
| Sixprong | 2.31 | 1.35 | 0.26 | T. | 0.22 | 0.44 | 0.20 | T. | 0.19 | 0.56 | 2.46 | 0.82 | 8.81 |
| Skagit Power Dam | ..... | ..... | ..... | ..... | 3.35 | 1.50 | 1.55 | 2.05 | 4.80 | 6.45 | 27.68 | 7.41 | ..... |
| Snohomish | ..... | 4.30 | ..... | ..... | ..... | ..... | ..... | 0.45 | 1.26 | 3.61 | 8.87 | 3.19 | ..... |
| Snoqualmie Falls | 8.39 | 6.40 | 3.19 | 3.06 | 3.79 | 0.67 | 1.24 | 0.91 | 5.25 | 4.33 | 17.08 | 4.68 | 58.99 |
| Snyders Ranch | ..... | ..... | ..... | ..... | ..... | ..... | 1.79 | 0.05 | 0.72 | 0.91 | 7.74 | 2.25 | ..... |
| South Bend | 13.22 | 12.61 | 6.97 | 2.98 | 4.77 | 1.20 | 1.96 | ..... | ..... | ..... | ..... | ..... | ..... |
| *Spokane | 3.10 | 1.96 | 0.12 | 0.44 | 1.61 | 1.03 | 2.37 | 0.01 | 0.18 | 1.14 | 2.69 | 1.56 | 16.21 |
| State University | ..... | 4.88 | 1.37 | 1.22 | 1.79 | 1.29 | 0.25 | 0.39 | 1.44 | 3.10 | 9.52 | 3.25 | ..... |
| Sumner | 5.98 | 5.33 | 2.18 | 0.96 | 2.15 | 0.55 | 0.86 | ..... | 1.12 | 3.71 | 12.69 | 3.54 | ..... |
| Stokes Ranch | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 6.05 | 2.30 | ..... |
| Sunnyside | 1.23 | 0.74 | 0.31 | T. | 0.18 | 0.20 | 0.52 | 0.00 | 0.41 | 0.74 | 1.44 | 0.81 | 6.58 |
| *Tacoma | 8.20 | 5.33 | 2.12 | 0.74 | 2.03 | 0.60 | 0.86 | 0.33 | 0.90 | 3.35 | 14.73 | 4.95 | 44.14 |
| *Tatoosh Island | 9.26 | 13.08 | 5.90 | 1.86 | 3.29 | 2.36 | 1.83 | 2.97 | 2.03 | 9.03 | 16.52 | 6.77 | 74.90 |
| Tieton | 1.69 | 1.62 | 0.00 | 0.00 | ..... | 0.35 | 0.47 | T. | 0.82 | 0.13 | 7.08 | 3.46 | ..... |
| Touchet | ..... | ..... | ..... | 0.15 | 0.49 | 0.07 | 0.11 | T. | 0.36 | 0.53 | 1.76 | 1.44 | ..... |
| Touchet Ridge | ..... | ..... | ..... | ..... | ..... | ..... | 4.27 | 0.25 | 1.51 | 5.37 | 11.67 | 4.07 | ..... |
| Trinidad | 1.98 | 1.48 | 0.25 | 0.30 | 0.13 | 0.49 | 0.68 | 0.00 | 0.36 | 0.37 | ..... | 1.00 | ..... |
| Twisp | ..... | ..... | ..... | 0.00 | ..... | ..... | 0.96 | 0.08 | ..... | ..... | ..... | ..... | ..... |
| *Vancouver | 9.33 | 6.26 | 2.10 | 0.87 | 1.91 | 0.14 | 2.41 | 0.07 | 1.41 | 2.43 | 12.79 | 4.52 | 44.24 |
| Vashon Island | 8.25 | 6.95 | 1.73 | 0.99 | 1.86 | 0.77 | 0.74 | 0.40 | 0.64 | 3.08 | 13.34 | 4.29 | 43.04 |
| Wahluke | 1.42 | 0.50 | 0.15 | 0.06 | 0.00 | 0.76 | 0.44 | 0.00 | 0.08 | 0.58 | 1.37 | 0.30 | 5.66 |
| *Walla Walla | 2.27 | 2.43 | 2.02 | 1.09 | 0.80 | 0.69 | 1.21 | 0.01 | 0.61 | 1.55 | 3.98 | 2.07 | 18.73 |
| Wallace | ..... | ..... | ..... | ..... | ..... | ..... | 2.17 | T. | 1.88 | 1.32 | 4.74 | 1.43 | ..... |
| Waterville | 1.98 | 1.28 | ..... | 0.10 | 0.12 | ..... | ..... | ..... | 0.50 | 0.76 | 2.57 | 2.15 | ..... |
| *Wenatchee | 2.65 | 1.43 | 0.29 | 0.15 | 0.40 | 0.44 | 0.71 | T. | 0.80 | 0.49 | 4.07 | 1.61 | 13.04 |
| Westport | 11.64 | 15.71 | 6.51 | 1.90 | 4.70 | 2.57 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Wilbur | 2.60 | 1.08 | 0.15 | 0.20 | 2.39 | 0.55 | 0.60 | ..... | 0.47 | 0.72 | 2.44 | 1.20 | ..... |
| Yale | 14.69 | 16.62 | 6.16 | 3.82 | 4.86 | 1.20 | 3.34 | 0.23 | ..... | 6.55 | 31.02 | 6.57 | ..... |
| Zindel | 2.75 | 3.59 | 1.98 | 0.41 | 4.06 | 0.74 | 2.72 | T. | 0.89 | 0.96 | 4.20 | 0.53 | 22.83 |
| *West Virginia:* | | | | | | | | | | | | | |
| Arbovale | 2.46 | 2.87 | * 3.13 | 5.06 | 3.06 | 3.99 | 3.70 | 1.97 | 1.96 | ..... | ..... | ..... | ..... |
| Bancroft | 3.53 | 4.29 | 3.34 | 4.30 | 5.11 | 3.98 | 5.21 | 2.33 | 1.77 | 2.88 | 2.07 | 1.90 | 40.71 |
| Bayard | 4.09 | 3.30 | 3.72 | 5.09 | 3.55 | 6.51 | 2.95 | 4.96 | 4.69 | 4.88 | 1.38 | 3.74 | 48.86 |
| Beckley | ..... | 2.66 | 4.78 | 4.51 | 2.76 | 6.61 | 10.50 | 2.53 | 3.92 | 2.19 | 1.16 | 2.25 | ..... |
| Bens Run | 4.41 | 6.55 | 3.56 | 6.14 | 5.51 | 8.53 | 3.40 | 4.47 | 1.32 | 2.27 | 1.10 | 3.16 | 50.42 |
| Bluefield | 11.75 | ..... | 4.26 | 3.07 | 3.38 | 5.35 | 4.44 | 5.70 | 5.67 | 2.49 | ..... | ..... | ..... |
| *Brandonville | ..... | ..... | ..... | ..... | ..... | 6.13 | 4.17 | 3.24 | 2.28 | 3.39 | 1.17 | ..... | ..... |
| Buckhannon | 2.91 | 4.71 | 4.02 | 6.08 | 2.96 | 6.53 | 4.51 | 4.90 | 3.56 | 5.27 | 2.22 | 2.46 | 50.13 |
| Burlington | 3.08 | 1.80 | 1.55 | 0.47 | 3.73 | 5.91 | 0.90 | 2.55 | 3.23 | 3.45 | 0.32 | 1.95 | 34.94 |
| Cairo | 4.79 | 6.92 | 2.86 | 5.58 | 4.07 | 6.15 | 5.61 | 4.87 | 1.43 | 2.41 | 1.35 | 2.65 | 48.69 |
| Central Station | 3.17 | 5.14 | 2.43 | ..... | 5.71 | 6.47 | 3.07 | 4.84 | 2.77 | 2.03 | 0.89 | 2.17 | ..... |
| *Charleston | 3.14 | 4.04 | 4.98 | 5.14 | 4.42 | 5.88 | 5.60 | 3.66 | 4.10 | 2.05 | 2.39 | 1.69 | 47.09 |
| *Creston | 2.67 | 4.84 | 2.44 | 5.15 | 4.13 | 4.68 | 4.91 | 2.81 | 2.66 | 2.67 | 1.26 | 2.06 | 40.28 |
| Cuba | 4.04 | 4.88 | 1.79 | 4.80 | 4.79 | 5.48 | 4.80 | 3.74 | 1.48 | 2.51 | 1.42 | 1.94 | 41.67 |
| *Davis | 4.35 | 3.50 | 3.65 | 6.20 | 2.75 | 6.95 | 4.50 | 5.43 | 4.02 | 4.30 | 1.10 | 4.45 | 51.20 |
| Doane | 2.92 | 2.33 | 3.11 | 3.06 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Elkhorn | 1.50 | 2.50 | 3.09 | 1.70 | 1.90 | 6.49 | 7.89 | 2.22 | 3.94 | 0.60 | 1.49 | 2.82 | 36.14 |
| *Elkins | 2.98 | 3.20 | 3.28 | 5.39 | 2.96 | 7.78 | 4.85 | 3.20 | 4.30 | 4.58 | 2.31 | 2.02 | 46.85 |
| *Fairmont | 3.73 | 5.63 | 3.43 | 6.11 | 4.51 | 7.45 | 3.30 | 2.18 | 2.10 | 2.26 | 0.72 | 2.43 | 43.85 |
| *Glenville | 3.54 | 4.94 | 2.58 | 4.95 | 3.80 | 3.95 | 4.31 | 4.60 | 3.06 | 3.23 | 1.69 | 2.96 | 43.61 |
| Grafton | 3.80 | 4.82 | 2.70 | 5.09 | ..... | ..... | ..... | 3.18 | 2.04 | 3.45 | 1.23 | 2.52 | ..... |
| Green Sulphur Springs | 1.51 | 2.35 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| *Harpers Ferry | 2.16 | 3.22 | 2.33 | 3.86 | 2.92 | 4.31 | 0.60 | 3.54 | 1.84 | 1.70 | 0.63 | 2.62 | 29.73 |
| *Hinton | 2.24 | 3.02 | 4.97 | 2.71 | 4.40 | 4.80 | 5.54 | 3.34 | 5.28 | 2.66 | 1.14 | 2.72 | 42.82 |
| *Huntington | 3.74 | 4.92 | 3.70 | 4.44 | 5.30 | 6.46 | 4.58 | 1.26 | 1.96 | 1.84 | 1.36 | 1.16 | 40.42 |
| Lewisburg | 3.38 | 3.16 | 4.85 | 3.93 | 3.77 | 2.47 | 2.73 | 1.93 | 2.75 | 3.59 | 0.65 | 2.35 | 35.56 |
| Logan | 3.86 | 4.59 | 5.75 | 5.22 | 4.14 | 7.02 | 7.81 | 1.66 | 5.99 | 1.75 | 1.70 | 2.85 | 52.34 |
| Lost City | 2.52 | 4.30 | 2.11 | 5.66 | 3.88 | 4.92 | 1.14 | 1.62 | 1.92 | 2.83 | 0.35 | 2.36 | 33.61 |
| Lost Creek | 3.27 | 4.50 | 2.88 | 5.48 | 3.39 | 7.88 | 5.52 | 4.03 | 2.94 | 3.28 | 0.93 | 2.36 | 46.46 |
| Madison | ..... | 2.11 | 4.19 | 5.21 | 3.52 | 5.68 | 6.38 | 1.23 | 4.66 | 1.40 | 1.19 | 2.78 | ..... |
| Mannington | 3.76 | 5.04 | 3.90 | 5.34 | 3.67 | 5.18 | 3.12 | 3.00 | 1.44 | 2.19 | 0.71 | 2.93 | 40.28 |
| Marlinton | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.59 | 3.31 | 1.90 | 3.34 | ..... |
| Martinsburg | 1.96 | 3.58 | 2.76 | 3.64 | 3.64 | 3.57 | 1.37 | 2.89 | 3.65 | 2.62 | 0.78 | 2.83 | 33.29 |
| Moorefield | 1.60 | 2.70 | 1.23 | 5.68 | ..... | 6.43 | 1.52 | 2.34 | 1.23 | 3.35 | 0.23 | 1.48 | ..... |
| Morgantown | 4.07 | 3.85 | 2.48 | 5.20 | 2.80 | 5.18 | 3.11 | 2.52 | 1.32 | 2.55 | 0.83 | 2.00 | 35.91 |
| *Moundsville | 3.20 | 3.90 | 2.55 | 3.48 | 4.80 | 4.06 | 3.16 | 3.14 | 0.85 | 2.02 | 0.95 | 1.85 | 33.96 |
| New Cumberland | 3.05 | 3.97 | 2.65 | 4.40 | 2.25 | 4.00 | 4.04 | 1.92 | 0.85 | 1.55 | 1.25 | 2.24 | 32.17 |
| New Martinsville | 3.73 | 6.17 | 3.40 | ..... | 4.30 | 4.88 | 4.05 | 3.83 | 2.32 | 2.09 | 0.85 | 2.40 | ..... |
| Nuttallburg | 3.68 | 3.20 | 4.97 | 4.26 | 3.75 | 5.84 | 8.12 | 2.99 | 3.70 | 2.59 | 3.52 | 2.27 | 48.89 |
| *Parkersburg | 3.62 | 6.14 | 2.27 | 4.24 | 3.10 | 5.17 | 4.78 | 4.37 | 1.14 | 1.74 | 0.55 | 1.99 | 39.11 |
| Parsons | 5.22 | 3.37 | 4.64 | 5.98 | 1.80 | 7.13 | 5.88 | 5.10 | 7.22 | 4.35 | 0.70 | 4.19 | 55.58 |
| *Philippi | 3.53 | 4.72 | 4.22 | 5.73 | 2.46 | 8.45 | 3.89 | 4.44 | 3.83 | 4.21 | 1.13 | 2.71 | 49.32 |
| Pickens | 6.27 | 6.48 | 6.19 | 8.57 | 3.34 | 7.71 | 6.01 | 5.79 | 6.77 | 5.09 | 3.85 | 4.00 | 70.07 |
| Pineville | 2.93 | 3.07 | 2.29 | ..... | 3.94 | ..... | ..... | ..... | ..... | 2.70 | 0.88 | ..... | ..... |
| *Point Pleasant | 3.11 | 5.08 | 2.28 | 4.54 | 4.38 | 5.62 | 3.87 | 1.20 | 1.29 | 2.40 | 1.51 | 1.80 | 37.08 |
| Powellton | 3.27 | 3.96 | 2.87 | 3.71 | 2.95 | 5.15 | 4.59 | 1.47 | 3.35 | 1.49 | 1.46 | 2.65 | 36.82 |
| Princeton | 3.76 | 5.85 | 8.66 | 5.65 | 6.05 | 5.60 | 5.80 | 3.15 | 8.75 | 3.70 | 0.69 | 3.70 | 61.36 |
| Robertsburg | ..... | ..... | ..... | ..... | ..... | 3.78 | 2.57 | 0.81 | 1.17 | 2.57 | 1.38 | 1.99 | ..... |
| Romney | 2.31 | 2.49 | 1.54 | 4.81 | 2.91 | 6.98 | 1.05 | 2.67 | 2.33 | 3.04 | 0.56 | 1.86 | 32.55 |
| *Rowlesburg | 4.30 | 5.00 | 4.37 | 5.82 | 3.28 | 8.94 | 4.52 | 5.04 | 3.18 | 4.86 | 1.83 | 3.89 | 55.03 |
| Ryan | 3.13 | 3.97 | 2.94 | 5.60 | 3.90 | 4.94 | 4.74 | 2.72 | 0.68 | 3.12 | 1.58 | 2.78 | 40.10 |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *West Virginia*—Continued. | | | | | | | | | | | | | |
| *St. Marys | 3.75 | 6.31 | 3.11 | 5.89 | 4.68 | 7.58 | 4.25 | 4.32 | 1.34 | 1.86 | 1.16 | 2.21 | 46.47 |
| *Smithfield | 6.59 | 6.24 | 2.47 | 6.13 | 5.74 | 7.96 | 2.57 | 4.08 | 1.07 | 4.11 | 1.07 | 3.64 | 51.66 |
| Spencer | 2.97 | 3.89 | 3.25 | 4.38 | 4.68 | 3.92 | 4.09 | 2.49 | 1.12 | 2.28 | 1.29 | 2.04 | 37.00 |
| *Sutton | ..... | 4.07 | 4.19 | 5.63 | 2.55 | 5.87 | 2.96 | 2.51 | 1.15 | ..... | 1.96 | 2.51 | ..... |
| Terra Alta | 5.00 | 7.66 | 6.56 | 7.09 | 4.43 | 9.19 | 3.50 | 2.96 | 2.81 | 4.53 | 2.11 | 6.00 | 61.86 |
| Union | ..... | 2.36 | 4.11 | 2.62 | 3.74 | 4.98 | 5.73 | 2.63 | 4.35 | 3.41 | 0.85 | 1.35 | ..... |
| Upper Tract | 1.96 | 1.44 | 1.11 | 4.54 | 3.35 | 6.62 | 1.00 | 1.59 | 1.74 | 2.52 | 0.84 | 2.35 | 29.06 |
| Valley Fork | 3.99 | 2.88 | 1.10 | 2.59 | 4.53 | 3.57 | 3.59 | 2.55 | 1.05 | 2.05 | 1.20 | 1.83 | 30.93 |
| Webster Springs | ..... | ..... | 1.60 | 7.90 | 3.80 | 9.15 | 2.33 | 1.93 | 3.65 | 1.79 | 2.70 | 3.59 | ..... |
| Wellsburg | 3.34 | 4.78 | 3.27 | 5.23 | 3.88 | 5.12 | 3.01 | 3.09 | 1.36 | 2.03 | 1.33 | 2.99 | 39.43 |
| *Weston | 3.74 | 5.52 | 3.61 | 4.84 | 3.30 | 3.92 | 2.54 | 2.94 | 1.98 | 3.72 | 2.40 | 3.26 | 41.77 |
| *Wheeling | 3.41 | 4.10 | 2.53 | 5.00 | 4.16 | 3.11 | 3.58 | 2.37 | 0.63 | 1.63 | 1.12 | 1.86 | 33.50 |
| *Williamson | 3.96 | 3.82 | 5.06 | 4.88 | 3.72 | 5.78 | 7.31 | 1.44 | 2.36 | 1.68 | 1.24 | 1.88 | 43.13 |
| *Wisconsin.* | | | | | | | | | | | | | |
| Antigo | 0.25 | 2.00 | 1.50 | 1.61 | 2.35 | 4.59 | 2.72 | 2.31 | 2.01 | 0.49 | 3.58 | 0.79 | 24.20 |
| Appleton | 1.05 | 1.64 | 1.78 | 4.77 | 2.48 | 3.02 | 1.40 | 2.24 | 2.09 | 0.84 | 2.98 | 2.85 | 27.14 |
| Ashland | 0.56 | 2.10 | 1.00 | 2.55 | 4.38 | 3.04 | 8.70 | 4.14 | 2.93 | 1.83 | 2.47 | 0.94 | 34.64 |
| Barron | 0.35 | 1.35 | 0.80 | 3.61 | 2.60 | 2.56 | 2.96 | 4.08 | 4.27 | 2.54 | 4.48 | 1.24 | 30.84 |
| Beloit | 2.26 | ..... | 1.33 | 6.67 | 3.26 | 3.96 | 0.87 | 8.51 | 3.09 | 0.65 | 3.51 | 4.47 | ..... |
| Brodhead | 2.93 | 1.65 | 1.02 | 8.32 | 3.39 | 4.68 | 0.85 | 8.15 | 2.32 | 0.68 | 3.35 | 3.71 | 41.25 |
| Burnett | 1.25 | 0.72 | 1.46 | 5.25 | 3.35 | 7.08 | 0.52 | 3.90 | 2.15 | 0.63 | 2.73 | 3.09 | 32.13 |
| Cecil | 0.60 | 1.48 | 1.88 | 4.93 | 3.70 | 2.95 | 3.23 | 1.69 | 1.81 | 0.32 | 3.78 | 1.82 | 28.19 |
| Chilton | 1.49 | 2.13 | 2.68 | 5.46 | 2.59 | 3.24 | 3.17 | 5.24 | 2.20 | 0.90 | 4.21 | 3.57 | 36.88 |
| Crandon | ..... | 1.77 | 1.12 | ..... | ..... | 2.85 | 3.76 | 2.03 | 2.88 | 0.76 | 3.40 | 1.20 | ..... |
| Delavan | 1.83 | 1.54 | 0.73 | 7.60 | 3.42 | 3.50 | 1.94 | 9.80 | 3.58 | 1.05 | 2.95 | 3.45 | 41.39 |
| Dodgeville | ..... | 1.50 | 0.83 | ..... | ..... | ..... | ..... | ..... | ..... | 1.07 | 3.47 | 3.76 | ..... |
| Downing | 0.60 | 2.80 | 0.40 | 2.81 | 2.56 | 4.77 | 4.96 | 3.50 | 4.29 | 2.94 | 4.56 | 1.15 | 35.34 |
| Eau Claire | 1.03 | 1.61 | 1.28 | 3.42 | 3.00 | 2.96 | 2.20 | 2.22 | 6.84 | 2.63 | 5.42 | 1.46 | 34.07 |
| Ellsworth | ..... | 1.90 | ..... | 3.11 | 2.36 | 2.03 | ..... | ..... | 3.34 | ..... | ..... | ..... | ..... |
| Florence | 1.17 | 2.55 | 1.96 | 3.35 | 2.83 | 2.77 | 7.99 | 2.92 | 2.32 | 0.95 | 5.60 | 1.43 | 35.84 |
| Fond du Lac | 1.29 | 1.20 | 1.21 | 5.29 | 2.71 | 3.54 | 1.00 | 3.36 | 2.29 | 0.76 | 2.88 | 2.59 | 38.12 |
| *Grand Rapids | 0.91 | 1.23 | 1.14 | 3.90 | 2.30 | 2.26 | 1.16 | 3.28 | 3.15 | 1.16 | 4.11 | 1.36 | 25.96 |
| Grand River Locks (Montello) | 0.76 | 0.52 | 1.14 | 4.20 | 2.10 | 3.50 | 0.40 | 3.21 | 2.49 | 0.99 | 2.40 | 1.74 | 23.45 |
| Grantsburg | 0.90 | 2.15 | 0.45 | 4.02 | 3.50 | 1.57 | 5.75 | 3.28 | 3.93 | 3.03 | 3.50 | ..... | ..... |
| *Green Bay | 0.66 | 1.49 | 1.63 | 4.00 | 4.28 | 4.16 | 1.04 | 1.24 | 2.68 | 0.95 | 2.55 | 2.10 | 26.78 |
| Hancock | 1.70 | 1.10 | 0.60 | 5.20 | 1.85 | 3.10 | 1.23 | 3.96 | 3.43 | 1.83 | 2.64 | 1.50 | 28.14 |
| Hatfield | ..... | ..... | ..... | 2.21 | ..... | 1.11 | 1.51 | 2.22 | 3.10 | ..... | 4.43 | ..... | ..... |
| Hayward | 0.40 | 1.52 | 0.59 | 3.02 | 2.92 | 2.75 | 3.55 | 3.83 | 2.25 | 3.87 | 4.42 | 0.68 | 29.80 |
| Herbster | 0.47 | 1.11 | 0.72 | 3.29 | 2.89 | 0.87 | 9.12 | 4.37 | 3.15 | 3.95 | ..... | ..... | ..... |
| Hillsboro | 2.00 | 1.20 | 0.95 | 6.31 | 4.35 | 2.87 | 0.96 | 4.61 | 3.11 | 1.75 | 4.40 | 2.10 | 34.61 |
| Iron River | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.48 | 2.39 | 4.18 | 2.88 | 1.75 | ..... |
| Kewaunee | 1.40 | 1.45 | 0.80 | 3.28 | 3.03 | 4.25 | 0.78 | 2.08 | 2.33 | 0.99 | 2.23 | 3.90 | 26.52 |
| Koepenick | ..... | ..... | ..... | ..... | ..... | 3.52 | 2.90 | 3.24 | 2.75 | 1.56 | 3.76 | 1.46 | ..... |
| *La Crosse | 1.53 | 1.89 | 1.36 | 5.96 | 3.19 | 1.99 | 0.66 | 8.76 | 4.03 | 1.30 | 5.80 | 1.79 | 38.26 |
| Lake Mills | 2.39 | 1.25 | 1.20 | 8.58 | 3.76 | 4.88 | 0.09 | 4.40 | 1.52 | 0.67 | 3.23 | 3.87 | 35.84 |
| Lancaster | 1.12 | 0.85 | 0.80 | ..... | 3.94 | 5.59 | 1.55 | 3.49 | 2.20 | 1.03 | 3.62 | 1.65 | ..... |
| Long Lake (Eagle River) | 0.50 | 1.20 | 1.66 | 3.20 | 1.89 | 2.97 | 5.32 | 1.85 | 2.50 | 1.03 | 5.20 | 0.90 | 28.22 |
| *Madison | 2.33 | 1.70 | 1.12 | 7.19 | 2.49 | 2.78 | 0.29 | 4.39 | 2.20 | 0.91 | 2.28 | 3.15 | 30.83 |
| Manitowoc | 1.78 | 1.84 | 2.08 | 4.10 | 2.06 | 3.97 | 1.54 | 3.23 | 3.12 | 1.07 | 2.90 | 3.20 | 30.89 |
| Mather | 1.01 | 1.52 | 2.02 | 3.93 | 3.07 | 2.93 | 1.82 | 1.94 | 3.50 | 1.26 | 4.14 | 1.83 | 28.97 |
| Mauston | 2.15 | 1.70 | 1.58 | 5.81 | 3.82 | 3.36 | 2.92 | 6.18 | 2.73 | 1.35 | 4.44 | 2.26 | 38.30 |
| Meadow Valley | 0.52 | 0.92 | 0.94 | 4.41 | 3.24 | 2.82 | 1.32 | 2.52 | 3.77 | 1.41 | 3.74 | 1.50 | 27.11 |
| Medford | 0.65 | 1.50 | 0.90 | 2.55 | 1.90 | 3.72 | 3.37 | 2.15 | 3.54 | 2.05 | 5.10 | 1.15 | 28.58 |
| Menasha | 0.46 | ..... | ..... | ..... | ..... | 2.74 | 1.03 | 4.14 | 2.50 | 1.05 | 1.76 | 2.73 | ..... |
| Menomonee Falls | ..... | 1.81 | 1.30 | ..... | ..... | ..... | 2.31 | 3.03 | 2.77 | 0.86 | 2.70 | 4.13 | ..... |
| Merrill | 0.65 | 1.34 | ..... | ..... | 2.59 | 2.79 | 5.44 | 2.11 | 2.83 | 0.77 | 5.89 | 0.84 | ..... |
| *Milwaukee | 2.29 | 1.99 | 0.86 | 7.09 | 2.27 | 2.58 | 1.62 | 3.18 | 3.39 | 0.61 | 2.29 | 3.34 | 31.51 |
| Minocqua | 0.40 | 1.00 | 1.85 | 2.80 | 1.60 | ..... | ..... | 1.40 | 3.37 | 1.30 | 5.27 | ..... | ..... |
| Mondovi | 0.79 | 1.25 | 0.79 | 3.16 | 3.72 | 2.63 | 1.39 | 2.62 | 6.98 | 1.04 | 4.59 | 1.39 | 30.35 |
| Mount Horeb | 2.26 | 1.19 | 1.26 | 7.70 | 3.17 | 3.48 | 0.61 | 5.35 | 2.37 | 1.30 | 2.77 | 2.67 | 34.13 |
| *Muscoda | ..... | ..... | ..... | ..... | ..... | ..... | 1.09 | 5.12 | 2.40 | 0.96 | 3.46 | 2.39 | ..... |
| Neillsville | 0.95 | 3.00 | 1.96 | 4.17 | 3.50 | 2.60 | 1.85 | 2.88 | 3.33 | 1.92 | 4.75 | 1.92 | 32.83 |
| New London | 0.41 | 1.14 | 1.29 | 4.50 | 3.82 | 3.78 | 1.15 | 3.88 | 3.87 | 0.60 | 2.78 | 2.35 | 29.57 |
| New Richmond | 0.92 | 2.10 | 0.40 | 1.80 | 2.15 | 5.92 | 3.95 | 3.71 | 4.87 | 1.91 | 3.77 | 1.64 | 33.14 |
| Oconto | 1.01 | 3.20 | 2.35 | 2.00 | 3.14 | 4.78 | 2.67 | 0.90 | 2.08 | 1.10 | 2.65 | 3.24 | 29.12 |
| Osceola | 0.86 | 1.41 | 0.85 | 2.50 | 2.95 | 5.68 | 3.53 | 3.96 | 3.80 | 2.20 | 4.45 | 1.92 | 32.91 |
| Oshkosh | 0.75 | 1.30 | 0.95 | 4.82 | 2.56 | 2.20 | 3.21 | 4.31 | 1.91 | 0.58 | 2.40 | 2.60 | 27.59 |
| Pine River | 1.03 | 1.15 | 1.29 | 5.23 | 1.92 | 3.68 | 0.59 | 3.98 | 3.47 | 0.69 | 2.29 | 2.29 | 27.61 |
| Plum Isle (Detroit Harbor) | 0.82 | ..... | 0.93 | 1.90 | 1.48 | 3.10 | 4.43 | 1.97 | 1.84 | 1.43 | 1.53 | 3.27 | ..... |
| *Portage | 0.51 | 0.66 | 1.11 | 5.23 | 3.08 | 3.39 | 1.43 | 4.24 | 3.30 | 0.86 | 2.26 | 1.56 | 27.63 |
| Port Washington | 2.55 | 1.72 | 1.25 | 7.29 | 2.87 | 4.40 | 1.58 | 4.34 | 3.57 | 0.93 | 3.50 | 5.02 | 39.02 |
| *Prairie du Chien | 1.84 | 1.23 | 1.29 | 6.20 | 3.10 | 4.56 | 1.11 | 3.42 | 2.26 | 1.39 | 4.64 | 2.05 | 33.09 |
| Prentice | 0.85 | 1.43 | 1.37 | 3.20 | ..... | 0.86 | 3.60 | 1.93 | 2.51 | 2.45 | 4.52 | 0.94 | ..... |
| Racine | 2.50 | 2.24 | 0.60 | 7.82 | 0.83 | 2.42 | 2.34 | 2.90 | 3.48 | 0.67 | 3.00 | 3.50 | 32.30 |
| *Rhinelander | 0.49 | 0.76 | 0.76 | 3.12 | 2.43 | 4.01 | 4.11 | 3.83 | 2.90 | 1.15 | 5.32 | 1.27 | 30.15 |
| Sauk City | ..... | ..... | ..... | ..... | 3.15 | ..... | 0.29 | 4.64 | ..... | 0.80 | 2.71 | ..... | ..... |
| Sheboygan | 1.76 | 2.45 | 1.07 | 2.58 | 1.86 | 3.35 | 2.52 | 3.68 | 3.00 | 1.13 | 3.02 | 4.65 | 31.07 |
| Shullsburg | 2.73 | 2.07 | 1.67 | 8.45 | 4.44 | 4.36 | 0.53 | 6.51 | 3.43 | 1.81 | 4.61 | 3.87 | 44.48 |
| Solon Springs | 0.72 | 1.00 | 0.31 | 1.80 | 2.48 | 2.40 | 7.60 | 3.80 | 2.86 | ..... | 2.80 | 2.15 | ..... |
| Spooner | 0.49 | 0.85 | 0.50 | 1.44 | 4.78 | 3.92 | 4.80 | 5.35 | 2.48 | 2.41 | 3.78 | 1.47 | 32.27 |
| Stanley | 0.44 | 1.71 | 1.46 | 3.08 | 3.30 | 7.61 | 2.78 | 4.29 | 4.14 | 1.77 | 5.12 | 1.11 | 36.81 |
| Stevens Point | ..... | 1.96 | 1.84 | 4.13 | 2.36 | ..... | ..... | 2.32 | 3.84 | 1.56 | 4.00 | 2.63 | ..... |
| Sturgeon Bay | 0.87 | 2.52 | 2.52 | 6.18 | 2.22 | 4.08 | 1.95 | 0.95 | 2.24 | 1.11 | 3.15 | 4.28 | 32.07 |
| Superior | 1.08 | 0.54 | 0.71 | 1.81 | 2.02 | 1.93 | 9.73 | 4.88 | 3.52 | 2.28 | 2.28 | 2.34 | 32.92 |
| Valley Junction | 1.91 | 2.52 | 2.48 | 6.22 | 5.33 | 4.20 | 0.99 | 3.89 | 3.93 | 1.81 | 5.19 | 2.98 | 41.45 |
| Viroqua | 1.85 | 1.28 | 1.02 | 7.30 | 3.19 | 3.18 | 1.34 | 7.34 | 3.44 | 1.05 | 3.75 | 1.58 | 38.32 |
| Vudesare | 0.56 | 1.48 | 0.84 | 3.66 | 1.38 | 2.32 | 10.24 | 3.11 | 0.63 | 1.66 | 4.69 | 0.89 | 31.46 |
| *Watertown | 2.25 | 1.38 | 1.35 | 7.74 | 2.50 | 4.24 | 0.54 | 3.96 | 2.58 | 0.63 | 2.47 | 3.79 | 32.53 |
| Waukesha | 2.44 | 0.93 | 0.75 | 6.84 | 2.28 | 2.63 | 0.48 | 3.73 | 3.32 | 0.48 | 2.19 | 2.96 | 29.01 |
| Waupaca | 0.60 | 1.04 | 1.31 | 4.39 | 2.98 | 2.85 | 0.80 | 4.20 | 3.65 | 0.79 | 2.69 | 2.20 | 27.50 |
| Wausau | 0.70 | 1.24 | 1.17 | 2.94 | 1.66 | 4.06 | 2.41 | 2.50 | 3.01 | 0.88 | 2.42 | 0.99 | 23.89 |
| Weyerhaeuser | 1.01 | 1.62 | 1.67 | 3.78 | 4.78 | 3.08 | 4.23 | 2.80 | 2.23 | 1.14 | 4.06 | 1.87 | 32.27 |
| Whitehall | ..... | ..... | ..... | ..... | ..... | ..... | 0.67 | 2.90 | 3.20 | 1.14 | 5.30 | 1.35 | ..... |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Wyoming.* | | | | | | | | | | | | | |
| Afton | ..... | 1.12 | ..... | 0.80 | 2.24 | 1.37 | ..... | ..... | ..... | ..... | ..... | 0.85 | ..... |
| Alta | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.93 | 2.89 | 1.67 | 2.75 | 1.42 | ..... |
| Arapahoe | 0.06 | 0.18 | 1.18 | 0.33 | 2.31 | 0.83 | 0.62 | 1.08 | 0.57 | 0.24 | 0.39 | ..... | ..... |
| Barnum | 0.80 | 0.25 | 0.63 | 1.44 | 2.65 | 2.26 | 0.99 | T. | 1.57 | 0.99 | 0.51 | 1.40 | 13.49 |
| Basin | 0.29 | 0.11 | T. | 0.11 | 0.20 | 4.07 | 0.77 | 0.00 | 0.36 | 0.00 | 0.37 | 1.37 | 7.65 |
| Bedford | 6.06 | 3.08 | 1.63 | 0.87 | 3.00 | 1.83 | 1.72 | 1.41 | ..... | 0.76 | 2.68 | 1.17 | ..... |
| Bennett | 0.54 | 0.55 | 2.06 | 1.83 | 2.49 | 1.18 | 2.04 | 1.80 | 1.73 | 0.15 | 0.81 | ..... | ..... |
| Border | 3.46 | 1.40 | 2.75 | 0.87 | 1.93 | 1.06 | 1.41 | 1.11 | 3.27 | 0.25 | 2.50 | 1.10 | 21.13 |
| Casper | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.42 | 0.95 | 1.75 | ..... |
| *Cheyenne | 0.33 | 1.42 | 3.22 | 0.97 | 2.15 | 4.01 | 1.08 | 1.40 | 1.37 | 0.28 | 0.73 | 0.66 | 17.62 |
| Cheyenne Experiment Farm | 0.16 | 0.56 | 2.05 | 0.35 | 2.28 | 5.52 | 0.97 | 1.12 | 1.19 | 0.05 | 0.33 | 0.57 | 15.15 |
| Chugwater | 1.15 | 1.90 | 0.80 | 1.30 | 1.77 | 3.70 | 1.40 | 0.70 | 0.60 | 0.54 | 0.50 | 1.30 | 15.56 |
| Clark | 1.82 | 0.20 | 0.46 | 1.12 | 1.15 | 2.64 | 1.55 | 0.37 | 1.09 | 0.39 | 1.13 | 0.45 | 12.97 |
| Cody | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.53 | 0.25 | 0.62 | 0.30 | ..... |
| Cokeville | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.25 | 0.93 | 0.81 | ..... |
| Crystal Lake Reservoir | ..... | ..... | ..... | ..... | ..... | 3.22 | 2.50 | 1.73 | 1.00 | 0.25 | 0.23 | ..... | ..... |
| Daniel | 2.90 | 2.60 | 0.10 | 0.20 | 1.12 | 1.37 | 2.31 | 1.17 | 1.35 | T. | 1.00 | 0.70 | 14.82 |
| Dome Lake | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.40 | 1.85 | 0.80 | 2.40 | 2.90 | ..... |
| Douglas | ..... | ..... | ..... | 0.88 | 2.93 | 2.80 | 0.41 | 0.58 | 1.37 | 0.75 | 0.37 | 1.34 | ..... |
| Dubois | 2.10 | 1.00 | 1.90 | 0.15 | 0.41 | 1.16 | 0.56 | 1.25 | 1.27 | 0.27 | 0.63 | 0.60 | 11.30 |
| Eaton's Ranch | 1.20 | 0.50 | 1.50 | 4.80 | 3.70 | 3.06 | 0.66 | 0.52 | 2.92 | 0.14 | 0.60 | 5.00 | 24.60 |
| Echeta | 0.40 | 0.20 | 0.10 | 0.95 | 2.56 | 5.63 | 1.97 | 1.77 | 2.17 | T. | 0.93 | 1.98 | 18.68 |
| Eden | ..... | 1.73 | 0.97 | 0.21 | 0.96 | 0.45 | 1.71 | 0.79 | 0.91 | 0.16 | 0.42 | 1.10 | ..... |
| Elk Mountain | 2.02 | 4.21 | 2.30 | 3.27 | 1.95 | 1.83 | 1.47 | 1.71 | 1.40 | 0.38 | 1.93 | 1.85 | 24.32 |
| Encampment | ..... | ..... | 2.23 | 1.54 | 1.31 | 0.47 | 2.15 | 1.46 | 1.66 | 0.01 | 1.31 | 0.28 | ..... |
| Ervay | 0.34 | 0.71 | 0.87 | 2.09 | 3.35 | 1.24 | 0.84 | 2.27 | 2.30 | 0.77 | 1.15 | 0.71 | 16.64 |
| Evanston | 3.79 | 1.71 | 1.55 | 1.30 | 0.72 | 0.49 | 2.32 | 1.58 | 1.22 | 0.13 | 1.84 | 1.82 | 18.27 |
| Fillmore | ..... | ..... | ..... | ..... | 2.53 | 1.67 | 1.44 | 2.80 | 1.81 | 0.33 | 1.50 | ..... | ..... |
| Fort Laramie | 0.25 | 0.32 | 0.93 | 0.30 | 3.82 | 4.85 | 0.38 | 0.57 | 1.13 | 0.06 | 1.66 | 0.44 | 14.73 |
| Gillette | 0.48 | 0.40 | 0.35 | 1.50 | 2.77 | 3.26 | 2.92 | 3.52 | 2.14 | 0.09 | 1.08 | 2.30 | 20.81 |
| Granite Canyon | 0.85 | 3.30 | 5.33 | 1.47 | 1.33 | 1.26 | 2.09 | 1.87 | 0.88 | 0.28 | 0.52 | 0.74 | 19.92 |
| Green River | 0.11 | 0.74 | 0.32 | 0.24 | 0.63 | 0.10 | 0.02 | 0.70 | 0.54 | T. | ..... | 0.22 | ..... |
| Hunter's Station | ..... | 0.39 | 1.39 | 2.39 | 6.26 | 5.31 | 0.77 | 1.73 | 2.11 | 0.45 | 1.22 | 1.85 | ..... |
| Independence | 0.37 | 0.58 | 0.37 | 0.42 | 2.18 | 0.64 | 1.06 | 1.93 | 1.26 | 0.15 | 0.70 | ..... | ..... |
| Kaycee | 0.40 | 0.77 | 0.56 | 1.09 | 1.57 | 1.95 | 2.10 | 1.37 | ..... | ..... | ..... | ..... | ..... |
| Kendall | ..... | 1.90 | 0.05 | 0.70 | 3.20 | 0.79 | ..... | 1.01 | ..... | ..... | ..... | ..... | ..... |
| Kirtley | 0.65 | 0.08 | 0.45 | 0.61 | 4.33 | 2.64 | 0.49 | 1.22 | 1.04 | 0.28 | 0.74 | 1.36 | 14.54 |
| Kirwin | ..... | ..... | ..... | 3.25 | 4.95 | 1.19 | 1.94 | 3.64 | 1.32 | 0.62 | 5.10 | 2.05 | ..... |
| Knowles | ..... | ..... | ..... | ..... | ..... | 5.20 | 2.32 | 2.03 | 2.86 | 0.65 | 0.99 | 2.42 | ..... |
| *Lander | 0.43 | 0.76 | 2.34 | 2.01 | 1.44 | 0.64 | 0.31 | 1.33 | 0.76 | 0.55 | 1.42 | 2.06 | 14.05 |
| Laramie | 0.34 | 0.27 | 1.11 | 0.76 | 1.66 | 0.67 | 1.00 | 1.87 | 0.97 | 0.50 | 0.29 | 0.24 | 9.68 |
| Leo | 0.61 | 1.09 | 0.54 | 0.51 | 2.36 | 2.54 | 0.44 | 0.72 | 2.03 | 0.13 | 0.53 | 0.90 | 12.40 |
| Lolabama Ranch | ..... | ..... | ..... | ..... | ..... | 1.09 | 1.40 | 0.65 | 1.62 | 0.71 | 1.08 | 0.28 | ..... |
| Lovell | ..... | ..... | ..... | 0.39 | 0.72 | 1.23 | 0.67 | 0.08 | 1.02 | 0.20 | 0.39 | 0.18 | ..... |
| Lusk | 0.70 | 1.10 | 0.70 | 0.15 | 2.65 | 2.20 | 0.75 | 1.53 | 1.75 | 0.00 | 0.00 | 3.10 | 14.63 |
| Luther | 0.25 | 1.15 | 2.50 | 0.37 | 2.36 | 4.08 | 2.15 | 2.45 | 1.69 | T. | 0.50 | 0.90 | 18.40 |
| Manville | ..... | ..... | 0.51 | 2.10 | 3.96 | 2.81 | 0.81 | 0.68 | 1.39 | 0.24 | 0.89 | 1.62 | ..... |
| Moorcroft | 0.60 | 0.60 | 1.60 | 0.70 | 0.46 | 3.90 | 0.94 | 0.92 | ..... | 0.00 | 1.30 | 1.40 | ..... |
| Moore | 0.88 | 0.86 | 1.28 | 0.66 | 2.87 | 2.59 | ..... | 2.41 | 0.88 | 1.22 | 0.87 | ..... | ..... |
| Newcastle | 0.61 | 0.75 | 0.50 | 1.11 | 2.51 | 3.00 | 2.06 | 1.91 | 1.62 | T. | 1.08 | 1.65 | 16.80 |
| Pathfinder | 0.22 | 0.59 | 0.26 | 0.34 | 2.13 | 1.67 | 0.40 | 1.93 | 1.21 | 0.70 | 0.59 | 0.59 | 10.63 |
| Phillips | 1.05 | 1.40 | 0.40 | 0.80 | 4.54 | 4.23 | 4.22 | ..... | 1.49 | 0.06 | 0.68 | 1.00 | ..... |
| Pine Bluff | T. | 1.50 | 2.65 | 3.20 | 2.85 | 5.01 | 0.59 | 1.01 | ..... | ..... | ..... | ..... | ..... |
| Pinedale | 1.53 | 0.93 | 0.43 | 0.29 | 0.72 | ..... | ..... | ..... | ..... | 0.00 | 0.83 | 0.38 | ..... |
| Powell | 0.70 | T. | 0.01 | 0.42 | 0.74 | 1.64 | 0.29 | 0.08 | 0.69 | 0.04 | 0.32 | 0.31 | 5.24 |
| Riverton | 0.06 | 0.13 | 0.28 | ..... | 1.64 | 0.65 | ..... | ..... | ..... | 0.07 | ..... | ..... | ..... |
| Saratoga | ..... | ..... | ..... | ..... | ..... | 1.16 | 1.19 | 2.07 | 1.25 | 0.26 | 0.92 | 0.51 | ..... |
| *Sheridan (1) | 0.30 | 0.32 | 0.29 | 1.79 | 3.84 | 3.05 | 0.90 | 0.21 | 1.68 | 0.36 | 0.99 | 1.25 | 14.98 |
| Sheridan (2) | 0.80 | 0.95 | 0.72 | 1.62 | 2.89 | 3.16 | 0.96 | 0.00 | 1.74 | 0.18 | 1.10 | 2.50 | 16.62 |
| Shoshone Dam | 1.11 | 0.16 | 0.58 | 1.54 | 2.37 | 1.97 | 1.17 | 0.58 | 0.89 | 0.26 | 0.91 | 0.33 | 11.87 |
| Soldiers Home | 0.45 | 0.25 | 0.61 | 1.41 | 3.24 | 4.14 | 0.96 | 0.65 | 1.86 | 0.14 | 1.90 | 3.10 | 18.71 |
| South Pass City | ..... | ..... | ..... | ..... | ..... | ..... | 1.25 | 0.65 | 1.95 | 0.40 | 1.51 | 2.03 | ..... |
| Thermopolis | 0.10 | 0.10 | 0.42 | 1.00 | 3.10 | 1.49 | 0.04 | 0.92 | 1.22 | 0.44 | 0.53 | 1.00 | 10.36 |
| Upton | 0.16 | ..... | 0.10 | 0.31 | 1.73 | ..... | 2.12 | 1.69 | 4.86 | ..... | 0.95 | 1.59 | ..... |
| Valley | 1.38 | 0.09 | 1.29 | 0.97 | 2.58 | 1.60 | 2.24 | 1.14 | 1.35 | 0.45 | 2.16 | 0.09 | 15.34 |
| Verona | 0.80 | 0.31 | 0.90 | 0.90 | 1.58 | 3.30 | 1.90 | 0.52 | 2.76 | 0.56 | 1.20 | 2.10 | 15.93 |
| Wiley | 1.20 | T. | 0.05 | 1.30 | 1.76 | 1.61 | 1.68 | 0.59 | 0.86 | 0.27 | 0.68 | 0.67 | 10.67 |
| Willow Creek Cabin | 5.68 | 2.59 | 1.79 | 1.19 | 2.06 | 2.21 | 2.46 | 3.51 | ..... | 0.80 | 2.58 | 1.60 | ..... |
| Wyncote | 0.40 | 0.35 | 0.80 | 0.31 | 4.49 | 5.98 | 0.82 | 1.27 | 0.60 | T. | 0.90 | 0.37 | 16.29 |
| *Yellowstone Park | 1.61 | 0.65 | 0.77 | 0.81 | 0.95 | 0.75 | 1.85 | 0.70 | 2.45 | 0.34 | 1.16 | 1.27 | 13.31 |
| Fountain Hotel | ..... | ..... | ..... | ..... | ..... | ..... | 1.83 | 1.90 | 3.51 | 0.94 | 3.22 | 1.00 | ..... |
| Grand Canyon | ..... | ..... | ..... | ..... | ..... | ..... | 3.20 | 0.63 | 2.62 | 0.55 | 3.85 | 1.59 | ..... |
| Lake Hotel | 5.40 | 3.85 | 2.04 | 1.76 | 1.56 | 1.53 | 2.63 | 0.90 | 1.75 | 1.23 | 3.27 | 1.49 | 27.41 |
| Norris Geyser Basin | 2.60 | 2.67 | 0.48 | 1.28 | 0.60 | 0.73 | 2.25 | 0.84 | 1.92 | 0.89 | 2.11 | 0.96 | 17.13 |
| Riverside | 3.60 | 2.26 | 0.74 | 1.19 | 1.57 | 1.33 | 1.81 | 1.12 | 2.74 | 0.83 | 4.53 | 1.09 | 22.81 |
| Snake River | 3.60 | 4.60 | ..... | ..... | ..... | 0.07 | 1.07 | 1.10 | 2.80 | 1.10 | 5.00 | 2.10 | ..... |
| Soda Butte | 1.62 | 0.98 | 0.40 | 1.67 | 0.74 | 0.15 | 0.80 | T. | 1.51 | 0.84 | 1.73 | 1.07 | 11.51 |
| Sylvan Pass | 3.18 | 2.67 | 1.04 | 3.76 | 0.76 | 2.14 | 2.11 | 1.20 | 4.09 | 1.59 | 4.28 | 0.90 | 27.72 |
| Thumb Hotel | ..... | ..... | ..... | ..... | ..... | ..... | 2.47 | 1.39 | 2.31 | 1.44 | 5.39 | 1.31 | ..... |
| Tower Falls | ..... | ..... | ..... | 1.00 | 0.79 | 0.25 | 0.55 | 0.40 | 0.59 | 0.32 | 0.39 | 0.77 | ..... |
| Upper Geyser Basin | ..... | 1.80 | 0.30 | 0.55 | 0.65 | ..... | 1.10 | 1.10 | 2.50 | 0.70 | 0.59 | 0.50 | ..... |
| *Porto Rico.* | | | | | | | | | | | | | |
| Albonito | 3.42 | 5.33 | 2.12 | 6.78 | 8.72 | 6.15 | 3.55 | 18.74 | 8.81 | 6.64 | 17.91 | 1.50 | 89.67 |
| Alto de la Bandera | 4.64 | 4.82 | 2.53 | 4.89 | 8.19 | 7.93 | 6.09 | 16.06 | 10.43 | 11.33 | 16.04 | 1.21 | 94.16 |
| Afiasco | 1.35 | 3.92 | 0.46 | 9.25 | 6.33 | 9.99 | 7.50 | 9.58 | 8.46 | 8.74 | 7.53 | 0.18 | 73.29 |
| Arecibo | 1.64 | 4.60 | 1.69 | 1.21 | 3.14 | 4.15 | 4.92 | 11.12 | 2.80 | 4.10 | 13.80 | 4.50 | 57.67 |
| Arecibo (Bacupey) | ..... | ..... | ..... | 4.27 | 5.40 | 5.52 | 2.19 | 17.17 | 8.41 | 7.08 | 17.09 | 3.01 | ..... |
| Bayamon | 5.76 | 5.49 | 3.58 | 2.69 | 3.03 | 5.69 | 7.81 | 13.73 | 4.07 | 5.97 | 15.15 | 3.33 | 76.30 |
| Cabo Rojo | 4.58 | 2.39 | 1.15 | 9.98 | 3.58 | 6.29 | 7.86 | 7.12 | 4.99 | 5.09 | 5.23 | 0.24 | 58.50 |
| Caguas | 2.67 | 4.48 | 1.29 | 4.32 | 3.06 | 2.85 | 3.97 | 7.18 | 3.91 | 3.75 | ..... | 1.54 | ..... |
| Canovanas | 4.76 | 7.88 | 6.82 | 4.64 | 5.59 | 13.34 | 6.59 | 18.31 | 3.26 | 7.98 | 15.46 | 4.50 | 99.08 |
| Cayey | 3.77 | 5.71 | 1.10 | 7.80 | ..... | ..... | 5.10 | 25.53 | ..... | ..... | ..... | 1.80 | ..... |
| Central Aguirre | 1.13 | 1.85 | 1.17 | 1.79 | 13.17 | 7.12 | 4.37 | 16.79 | 6.23 | 8.11 | 12.20 | 0.57 | 74.50 |
| Central Ingenio | 6.20 | 6.62 | 3.47 | 6.38 | 9.36 | 11.82 | 7.61 | 16.06 | 12.73 | 11.75 | 18.28 | 1.48 | 111.76 |
| Cidra | 4.29 | 9.83 | 2.20 | 6.82 | 7.13 | 7.97 | 7.98 | 24.15 | ..... | ..... | ..... | 2.74 | ..... |

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1909—Continued.

| Stations. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Porto Rico*—Continued. | | | | | | | | | | | | | |
| Comerio Falls | 3.90 | 12.35 | ..... | ..... | 2.28 | 5.09 | 9.44 | 17.49 | 4.19 | 5.88 | 19.90 | 3.10 | ..... |
| Coloso | 0.21 | 1.91 | 0.31 | 5.34 | ..... | ..... | ..... | ..... | 13.24 | 8.24 | 9.19 | 1.15 | ..... |
| Corozal | 4.79 | 9.41 | 4.38 | 5.60 | 3.71 | 7.30 | 4.95 | 10.87 | 6.50 | 9.28 | 13.43 | 3.21 | 83.43 |
| Culebra | 1.51 | 3.01 | 3.55 | 2.90 | 3.80 | 5.66 | 2.28 | 12.36 | 4.31 | 3.05 | 11.25 | 0.95 | 54.63 |
| Dorado | 5.64 | 4.82 | 2.43 | 2.83 | 2.68 | 4.54 | 3.48 | 8.63 | 1.70 | 8.68 | 14.28 | 4.65 | 64.36 |
| Fajardo | 1.55 | 5.89 | 3.59 | 2.56 | 3.59 | 8.83 | 3.04 | 14.63 | 4.27 | 8.00 | 16.23 | 2.03 | 74.21 |
| Guanica Centrale | 2.72 | 0.00 | 0.19 | 1.19 | 2.76 | 6.78 | 3.57 | 16.60 | 2.36 | 4.99 | 10.85 | 0.00 | 52.01 |
| Guayama | 0.92 | 1.44 | 1.18 | 5.70 | 14.79 | 7.30 | 7.22 | 14.65 | 8.38 | 8.25 | 14.42 | 0.54 | 84.79 |
| Hacienda Destino | 2.03 | 0.14 | 1.45 | 1.56 | 6.49 | 7.12 | 2.59 | 15.30 | 11.56 | 8.04 | ..... | 0.04 | ..... |
| Hacienda Potala | 1.32 | ..... | 0.91 | 2.62 | 4.99 | 5.57 | 2.80 | 12.95 | 3.48 | 5.85 | 7.68 | 0.00 | ..... |
| Humacao | 2.42 | 4.93 | 2.95 | 5.63 | 12.14 | 10.78 | 6.35 | 16.00 | 11.23 | 10.74 | 16.35 | 1.49 | 101.01 |
| Isabela | 2.31 | 3.66 | 0.81 | 2.73 | 2.07 | 4.49 | 3.08 | 8.62 | 5.51 | 5.05 | 20.20 | 3.82 | 62.35 |
| Isolina | 4.56 | 9.48 | 3.73 | 4.74 | 6.16 | 3.27 | 1.93 | 12.78 | 6.28 | ..... | ..... | 2.42 | ..... |
| Jayuya | ..... | ..... | ..... | ..... | 3.68 | 2.46 | 4.59 | 21.19 | 5.72 | 5.17 | 18.96 | 1.77 | ..... |
| Juana Diaz | 1.28 | 0.86 | 0.48 | 4.18 | 4.14 | 4.84 | 2.20 | ..... | 3.19 | ..... | 11.77 | 0.06 | ..... |
| Juncos | ..... | ..... | 2.51 | 2.52 | 8.42 | 6.26 | 4.94 | 17.21 | 2.82 | 4.00 | 6.68 | ..... | ..... |
| La Carmelita (A) | 4.54 | 2.14 | 3.62 | 7.46 | 9.39 | 9.77 | 4.67 | 26.18 | 12.53 | 11.20 | 17.39 | 0.39 | 109.28 |
| La Carmelita (B) | 5.09 | 4.60 | 3.65 | 8.37 | 13.26 | 8.38 | 7.33 | 27.34 | 12.70 | 12.02 | 23.72 | 0.99 | 127.45 |
| Lares | 2.14 | 6.46 | 2.38 | 10.00 | 11.28 | 9.53 | 8.66 | 12.11 | 7.87 | 7.06 | 14.21 | 1.47 | 93.17 |
| Las Marias | 4.66 | 4.74 | 4.21 | 8.80 | 9.95 | 11.58 | 13.53 | 14.02 | 18.32 | 16.47 | 13.67 | 1.31 | 121.26 |
| Manati | 2.42 | 9.05 | 4.32 | 2.33 | 1.06 | 5.46 | 6.79 | 9.29 | 2.86 | 7.04 | 21.64 | 4.67 | 76.93 |
| Maricao | 2.91 | 5.80 | 2.35 | 10.73 | 8.18 | 8.82 | 12.93 | 14.09 | 9.16 | 11.78 | 12.69 | 0.50 | 99.94 |
| Maunabo | 2.04 | 5.26 | 2.12 | 3.18 | 7.85 | 9.93 | 4.83 | 17.61 | 9.59 | 10.68 | 14.57 | 3.29 | 90.95 |
| Mayaguez | 2.64 | 2.69 | 2.87 | 6.09 | 5.71 | 14.03 | 8.05 | 6.29 | 8.85 | 7.75 | 7.62 | 0.32 | 72.91 |
| Naguabo | 3.45 | 6.21 | 1.68 | 6.68 | 6.65 | 10.09 | 5.21 | 13.50 | 8.04 | 12.03 | 17.42 | 2.61 | 93.57 |
| Peñuelas | ..... | ..... | 0.74 | 9.41 | 6.92 | 9.74 | 2.75 | 15.56 | 4.65 | 6.35 | ..... | ..... | ..... |
| Ponce | 1.34 | 0.86 | 0.45 | 2.62 | 3.69 | 7.74 | 3.14 | 17.20 | 3.19 | 8.20 | 10.20 | 0.10 | 58.73 |
| Rio Bianco | 5.43 | 8.40 | 3.81 | 9.25 | 12.91 | 15.53 | 8.21 | 18.53 | 11.23 | 11.98 | 16.30 | 2.28 | 123.86 |
| Rio Piedras | 3.03 | 4.62 | 5.83 | 3.01 | ..... | ..... | ..... | 15.53 | 5.90 | 4.53 | 12.08 | 2.75 | ..... |
| Sabana Grande | 6.21 | 2.62 | 1.12 | 4.94 | 5.77 | 4.54 | ..... | 15.58 | 4.96 | 6.51 | 9.82 | 0.55 | ..... |
| San German | 3.63 | 4.55 | 3.68 | 9.31 | 4.84 | 6.50 | 7.18 | 12.61 | 5.39 | 5.76 | 7.74 | 0.10 | 71.29 |
| *San Juan | 6.16 | 2.16 | 2.53 | 2.77 | 2.74 | 8.86 | 4.92 | 10.29 | 4.11 | 5.60 | 11.66 | 3.58 | 65.38 |
| San Sebastian | 1.55 | 3.16 | 1.78 | 6.84 | 10.18 | 18.54 | 7.64 | 19.96 | 15.03 | 9.59 | 14.34 | 1.43 | 110.04 |
| San Salvador | 3.83 | 4.08 | 5.11 | 7.47 | 3.21 | 3.28 | ..... | 16.40 | 7.40 | 6.74 | 25.41 | 1.48 | ..... |
| Santa Isabel | 0.75 | 0.15 | 0.78 | 1.04 | 9.43 | 6.39 | ..... | 11.17 | 7.64 | ..... | 9.28 | ..... | ..... |
| Vieques | 3.23 | 4.16 | 3.08 | 1.48 | 2.36 | 8.17 | 2.00 | 8.10 | 3.65 | 7.83 | 8.10 | 0.88 | 53.04 |
| Yanco | 2.47 | 0.42 | 0.32 | 5.66 | 4.62 | 7.59 | 2.63 | 15.15 | 4.62 | 6.13 | 7.56 | 0.23 | 57.40 |

# SNOWFALL, 1909–1910.

## Monthly and Seasonal Snowfall, 1909–1910.

Note.—Leaders under heading of months indicate no snow; under annual, report incomplete; T., a trace; *, no report.

[Inches and tenths.]

| State and station. | 1909 | | | | 1910 | | | | | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | |
| *Alabama.* | | | | | | | | | | |
| Anniston | ..... | ..... | ..... | 0.3 | 0.1 | T. | ..... | T. | ..... | 0.4 |
| Ashville | ..... | ..... | ..... | 3.0 | T. | T. | ..... | ..... | ..... | 3.0 |
| Auburn | ..... | ..... | ..... | ..... | T. | ..... | ..... | T. | ..... | T. |
| Bermuda | ..... | ..... | ..... | ..... | ..... | T. | ..... | T. | ..... | T. |
| Birmingham | ..... | ..... | ..... | 3.1 | T. | T. | ..... | 0.1 | ..... | 3.2 |
| Decatur | ..... | ..... | ..... | 3.6 | ..... | 1.0 | ..... | ..... | ..... | 4.6 |
| Florence | ..... | ..... | ..... | 5.1 | ..... | 12.0 | ..... | ..... | ..... | 17.1 |
| Greensboro | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | ..... | T. |
| Hamilton | ..... | ..... | ..... | 2.1 | ..... | 3.0 | ..... | T. | ..... | 5.1 |
| Highland Home | ..... | ..... | ..... | ..... | T. | ..... | ..... | T. | ..... | T. |
| Lucy | ..... | ..... | ..... | ..... | T. | ..... | ..... | ..... | ..... | T. |
| Mobile | ..... | ..... | ..... | ..... | ..... | T. | ..... | ..... | ..... | T. |
| Montgomery | ..... | ..... | ..... | ..... | T. | T. | ..... | T. | ..... | T. |
| Newbern | ..... | ..... | ..... | ..... | T. | T. | ..... | 0.1 | ..... | 0.1 |
| Oneonta | ..... | ..... | ..... | 3.0 | T. | T. | ..... | T. | ..... | 3.0 |
| Union Springs | ..... | ..... | ..... | ..... | T. | ..... | ..... | T. | ..... | T. |
| Valley Head | ..... | ..... | ..... | 4.0 | 1.5 | 0.5 | ..... | T. | ..... | 6.0 |
| *Alaska.* | | | | | | | | | | |
| Allachaket | 0.8 | 7.5 | 11.2 | 25.0 | (*) | 2.2 | 8.0 | 8.2 | 1.5 | ..... |
| Calder | ..... | ..... | 42.0 | 15.0 | 67.0 | 28.0 | 17.0 | 13.0 | ..... | 182.0 |
| Copper Center | 5.2 | 4.0 | 2.0 | 6.0 | 9.0 | 4.0 | 2.8 | ..... | ..... | 33.0 |
| Cordova | T. | 2.0 | 2.8 | 5.4 | 96.5 | 61.0 | 26.0 | 43.0 | ..... | 236.7 |
| Eagle | (*) | (*) | 3.9 | 3.2 | 9.7 | 0.1 | 4.6 | 3.2 | T. | ..... |
| Fort Egbert | 6.1 | 11.7 | 3.0 | (*) | (*) | (*) | (*) | (*) | (*) | ..... |
| Fort Gibbon | T. | 4.8 | 4.6 | 8.0 | (*) | 3.0 | (*) | (*) | (*) | ..... |
| Fornham Hatchery | ..... | ..... | 52.0 | 21.5 | 94.5 | 59.5 | 41.5 | 20.0 | ..... | 289.0 |
| Fort Liscum | 13.5 | 12.4 | 6.4 | 157.8 | 109.6 | 64.0 | 76.1 | 13.8 | 5.0 | 458.6 |
| Fort Yukon | (*) | 11.0 | 5.8 | 19.0 | 3.8 | 1.2 | 2.2 | 0.2 | 0.5 | ..... |
| Gulkana | 2.0 | 5.0 | 8.0 | (*) | 12.0 | (*) | 4.0 | (*) | ..... | ..... |
| Hogan | ..... | 2.0 | 3.0 | 4.5 | 19.0 | 1.0 | (*) | (*) | (*) | ..... |
| Hot Springs | ..... | 4.4 | 11.0 | 22.6 | 16.4 | 0.3 | 6.0 | 2.0 | ..... | 62.7 |
| Juneau | (*) | (*) | (*) | (*) | (*) | 3.5 | 8.0 | (*) | ..... | ..... |
| Killisnoo | (*) | (*) | 11.0 | 4.0 | 33.0 | 7.0 | 3.0 | 6.0 | ..... | ..... |
| Klukwan | 2.5 | 6.2 | 6.0 | 14.2 | 23.2 | 10.0 | 19.0 | 17.5 | ..... | 98.6 |
| Kodiak | ..... | 0.2 | 2.5 | 5.5 | 14.5 | 20.0 | 24.0 | 34.5 | (*) | ..... |
| Nome | ..... | 1.5 | 14.0 | 16.0 | 13.0 | 3.0 | 2.0 | 5.0 | (*) | ..... |
| Rampart | 1.5 | 14.4 | 3.6 | 20.2 | 11.1 | 0.8 | 4.7 | 1.0 | ..... | 57.3 |
| Seward | ..... | ..... | T. | 5.0 | 30.0 | 32.0 | T. | (*) | (*) | ..... |
| Sitka | ..... | ..... | 10.0 | 12.0 | 56.5 | 17.5 | 9.0 | 31.0 | ..... | 136.0 |
| Skagway | ..... | 3.0 | (*) | (*) | 28.0 | 14.0 | (*) | ..... | ..... | ..... |
| Sunrise | 5.5 | 2.0 | 1.4 | 16.7 | 40.8 | 33.4 | 15.3 | 17.1 | (*) | ..... |
| Tanana | T. | 7.2 | 5.7 | 28.3 | 15.1 | 0.8 | 4.3 | 2.4 | T. | 63.8 |
| *Arizona.* | | | | | | | | | | |
| Buckeye | ..... | ..... | ..... | T. | ..... | ..... | ..... | ..... | ..... | T. |
| Chin Lee | ..... | ..... | 5.1 | 9.2 | 3.5 | 2.2 | T. | 2.5 | ..... | 22.5 |
| Chlarsons Mill | ..... | ..... | 7.5 | 32.0 | 12.0 | 3.0 | 19.0 | 3.5 | ..... | 77.0 |
| Congress | ..... | ..... | ..... | 7.1 | ..... | ..... | ..... | ..... | ..... | 7.1 |
| Flagstaff | T. | ..... | 10.9 | 30.7 | 8.1 | 11.4 | 18.5 | 3.3 | ..... | 82.9 |
| Fort Apache | ..... | ..... | ..... | 11.1 | 2.0 | ..... | T. | ..... | ..... | 13.1 |
| Grand Canyon | ..... | ..... | 10.6 | 38.9 | 11.5 | 10.5 | (*) | (*) | ..... | ..... |
| Jerome | ..... | ..... | 4.5 | 9.2 | 8.0 | ..... | 2.7 | ..... | ..... | 24.4 |
| Keams Canyon | ..... | ..... | 9.0 | 16.9 | 6.0 | 3.0 | T. | ..... | ..... | 34.9 |

MONTHLY AND SEASONAL SNOWFALL, 1909-1910—Continued.

| State and station. | 1909 | | | | 1910 | | | | | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | |
| *Arizona*—Continued. | | | | | | | | | | |
| Kingman | ..... | ..... | 0.3 | 8.1 | 3.0 | ..... | ..... | (*) | ..... | ..... |
| Maricopa | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.0 |
| Phoenix | ..... | ..... | ..... | T. | ..... | ..... | ..... | ..... | ..... | T. |
| Pinto | ..... | ..... | 2.0 | 14.5 | 15.0 | 7.0 | 8.0 | ..... | ..... | 46.5 |
| Prescott | ..... | ..... | 7.0 | 22.1 | 7.0 | 3.0 | 3.5 | T. | ..... | 42.6 |
| Saint Michaels | ..... | ..... | 7.2 | 17.2 | 2.0 | 3.0 | 4.3 | T. | ..... | 33.7 |
| Salome | ..... | ..... | ..... | 1.0 | ..... | ..... | ..... | ..... | ..... | 1.0 |
| Tombstone | ..... | ..... | ..... | 5.6 | ..... | ..... | T. | ..... | ..... | 5.6 |
| Tucson | ..... | ..... | ..... | T. | ..... | ..... | ..... | ..... | ..... | T. |
| Willcox | ..... | ..... | ..... | 4.0 | 2.0 | ..... | ..... | ..... | ..... | 6.0 |
| *Arkansas.* | | | | | | | | | | |
| Amity | ..... | ..... | ..... | 6.5 | 7.0 | 6.0 | ..... | T. | ..... | 19.5 |
| Bentonville | ..... | ..... | ..... | 3.1 | 0.4 | 10.9 | ..... | 0.2 | ..... | 14.6 |
| Bergman | ..... | ..... | ..... | 3.0 | 2.0 | 9.5 | ..... | ..... | ..... | 14.5 |
| Conway | ..... | ..... | ..... | 3.7 | 4.0 | 2.0 | ..... | T. | ..... | 9.7 |
| Corning | ..... | ..... | ..... | 0.6 | 6.5 | 11.0 | ..... | 0.2 | ..... | 18.3 |
| Eldorado | ..... | ..... | ..... | 5.0 | 0.2 | 4.0 | ..... | ..... | ..... | 9.2 |
| Fort Smith | ..... | ..... | ..... | 1.4 | 0.2 | 2.0 | ..... | T. | ..... | 3.6 |
| Hardy | ..... | ..... | ..... | 2.5 | 5.0 | 12.0 | ..... | T. | ..... | 19.5 |
| Helena No. 2 | ..... | ..... | ..... | 4.0 | 2.0 | 3.5 | ..... | T. | ..... | 9.5 |
| Jonesboro | ..... | ..... | ..... | 1.0 | 8.4 | 4.9 | ..... | T. | ..... | 14.3 |
| Little Rock | ..... | ..... | ..... | 2.5 | 6.1 | 4.1 | ..... | ..... | ..... | 12.7 |
| Malvern | ..... | ..... | ..... | 2.5 | 5.5 | 4.0 | ..... | ..... | ..... | 12.0 |
| Newport | ..... | ..... | ..... | 1.5 | 5.5 | 6.0 | ..... | ..... | ..... | 13.0 |
| Warren | ..... | ..... | ..... | ..... | 2.0 | 5.5 | ..... | ..... | ..... | 7.5 |
| *California.* | | | | | | | | | | |
| Bear River | ..... | 6.5 | 49.0 | 45.0 | 106.5 | 45.5 | 22.5 | 5.5 | 2.0 | 282.5 |
| Bear Valley | ..... | 5.0 | 24.0 | 66.0 | 114.0 | 58.0 | 25.0 | 4.0 | ..... | 296.0 |
| Blue Canyon | ..... | 4.0 | 23.0 | 39.0 | 110.0 | 41.0 | 20.0 | 3.0 | ..... | 240.0 |
| Boca | ..... | 2.0 | 17.5 | 22.0 | 72.5 | 19.0 | 12.0 | ..... | ..... | ..... |
| Bodie | (*) | 9.5 | 22.0 | 34.1 | 35.6 | 24.0 | 4.0 | 3.6 | ..... | ..... |
| Bowmans Dam | ..... | 6.0 | 48.0 | 56.0 | 94.0 | 55.0 | 60.0 | 5.0 | ..... | ..... |
| Butte Valley | ..... | 5.0 | 16.0 | 44.0 | 90.0 | 19.7 | 15.0 | T. | ..... | 189.7 |
| Camptonville | ..... | T. | 5.0 | 47.5 | 59.0 | 8.0 | ..... | ..... | ..... | 119.5 |
| Cedarville | ..... | 2.0 | 5.0 | 15.5 | 18.5 | 14.5 | 3.0 | 2.0 | ..... | 60.5 |
| Cisco | ..... | 9.0 | 46.0 | 48.0 | 144.0 | 43.0 | 42.0 | 5.0 | 3.0 | 340.0 |
| Crockers | ..... | T. | 10.0 | 20.0 | 50.0 | 6.0 | 14.5 | ..... | ..... | 100.5 |
| Cuyamaca | ..... | ..... | 0.8 | 11.0 | 21.0 | 1.0 | 15.0 | 1.0 | ..... | 49.8 |
| Daunt | ..... | ..... | 14.0 | 26.0 | 49.0 | 18.0 | 6.0 | ..... | ..... | 113.0 |
| Deer Creek | ..... | 3.0 | 10.0 | 38.0 | 65.0 | 20.0 | 9.0 | ..... | ..... | 145.0 |
| Emigrant Gap | ..... | 3.0 | 24.0 | 32.0 | 138.0 | 44.0 | 28.0 | ..... | T. | 269.0 |
| Fales Hot Springs | ..... | 15.5 | 3.8 | 42.0 | 32.0 | 7.0 | 4.0 | ..... | 3.0 | 107.3 |
| Fordyce Dam | ..... | 14.0 | 61.0 | 76.0 | 109.0 | 58.0 | 48.0 | 7.0 | 2.0 | 375.0 |
| Glen Alpine Springs | (*) | 15.5 | 47.5 | 70.0 | 121.0 | 75.0 | 21.0 | T. | (*) | ..... |
| Greenville | ..... | 2.5 | 9.5 | 45.5 | 70.0 | 16.5 | 1.5 | T. | T. | 145.5 |
| Hobart Mills | ..... | 4.5 | 25.5 | 57.2 | 93.3 | 36.5 | 15.0 | 0.5 | 1.5 | 234.0 |
| Idyllwild | ..... | ..... | 4.8 | 21.0 | 20.5 | ..... | 18.0 | ..... | ..... | 64.3 |
| Inskip | ..... | 7.0 | 26.0 | 39.8 | 88.0 | 43.0 | 38.7 | 1.5 | 3.0 | 247.0 |
| La Porte | ..... | 6.0 | 32.2 | 52.5 | 79.3 | 34.1 | 36.0 | 4.0 | 1.2 | 245.3 |
| Madeline | ..... | 3.0 | 8.0 | 10.5 | 20.5 | 8.0 | ..... | 2.0 | ..... | 52.0 |
| Markleeville | ..... | 1.0 | 13.0 | 20.0 | 51.0 | 14.0 | 6.0 | ..... | 4.0 | 109.0 |
| Monumental | ..... | 6.0 | 4.0 | 22.0 | 64.0 | 9.0 | ..... | ..... | 2.0 | 107.0 |
| North Bloomfield | ..... | ..... | 16.0 | 23.0 | 33.0 | 3.5 | ..... | ..... | ..... | ..... |
| Penstock Camp | ..... | ..... | 9.0 | 19.0 | 51.9 | 6.5 | 4.5 | ..... | ..... | 90.9 |
| Pilot Creek | ..... | T. | 8.5 | 30.0 | 89.0 | 30.0 | T. | ..... | T. | 157.5 |
| Quincy | ..... | 3.2 | 7.0 | 25.0 | 63.0 | 10.0 | 2.0 | ..... | ..... | 110.2 |
| Silver Creek | ..... | 5.0 | 28.0 | 46.0 | 66.0 | 22.0 | 7.0 | ..... | 4.0 | 178.0 |
| Sisson | ..... | 2.0 | 4.8 | 37.0 | 64.0 | 10.5 | 12.0 | ..... | ..... | 130.3 |
| Stirling City | ..... | 2.0 | 4.0 | 28.0 | 49.0 | 21.0 | 6.0 | ..... | ..... | 110.0 |
| Summerdale | ..... | 1.0 | 29.0 | 30.0 | 52.0 | 6.0 | 17.0 | 1.0 | ..... | 136.0 |
| Summit | ..... | 9.0 | 59.0 | 83.0 | 86.0 | 51.0 | 42.0 | 8.0 | 4.0 | 342.0 |
| Susanville | ..... | T. | ..... | 26.0 | 46.0 | 7.0 | ..... | ..... | ..... | 79.0 |
| Tamarack | 1.0 | 31.0 | 116.0 | 92.0 | 97.0 | 46.0 | 31.0 | 5.0 | 14.0 | 433.0 |
| Towle | ..... | ..... | T. | 15.0 | 61.0 | 9.0 | 3.0 | ..... | ..... | ..... |
| Truckee | ..... | 2.0 | 26.5 | 30.1 | 69.0 | 24.0 | 2.0 | ..... | 2.0 | 155.6 |
| Yosemite | ..... | ..... | 26.0 | 22.5 | 43.0 | 21.0 | 7.0 | ..... | 0.5 | 120.0 |

MONTHLY AND SEASONAL SNOWFALL, 1909–1910—Continued.

| State and station. | 1909 | | | | 1910 | | | | | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | |
| *Colorado.* | | | | | | | | | | |
| Alma | T. | T. | (*) | (*) | 13.0 | 18.0 | 6.0 | 7.0 | 15.0 | ..... |
| Auldhurst | 9.0 | 7.5 | 18.5 | 10.0 | ..... | 11.0 | 5.5 | 11.0 | 16.5 | 89.0 |
| Boreas | 1.8 | 3.8 | 11.6 | 22.5 | 26.0 | 18.3 | 8.8 | 11.0 | 15.8 | 119.6 |
| Boulder | ..... | 1.0 | 16.5 | 31.0 | 4.0 | 20.8 | T. | 0.2 | 7.0 | 80.5 |
| Breckenridge | 4.0 | 4.5 | 9.0 | 15.5 | 12.3 | 19.1 | 4.4 | 15.0 | 5.5 | 89.3 |
| Cheyenne Wells | ..... | 3.0 | 11.5 | 4.0 | T. | (*) | ..... | T. | ..... | ..... |
| Cochetopa | 3.5 | 1.0 | 9.7 | 4.8 | 8.2 | 10.5 | 4.0 | 8.0 | 2.0 | 51.7 |
| Colorado Springs | ..... | ..... | 21.8 | 3.4 | 3.0 | 8.0 | 1.1 | 4.0 | ..... | 41.3 |
| Crested Butte | ..... | ..... | (*) | 44.0 | 10.0 | 39.0 | ..... | 4.0 | ..... | ..... |
| Cuchara Camps | 2.0 | 7.0 | 33.2 | 16.5 | 5.5 | 16.5 | 4.3 | 14.7 | 8.0 | 107.7 |
| Denver | ..... | T. | 13.5 | 11.7 | 2.3 | 7.2 | 2.8 | T. | 6.3 | 43.8 |
| Dillon | 4.2 | 8.0 | 7.5 | 24.3 | (*) | 15.0 | 6.0 | 4.3 | 4.8 | ..... |
| Estes Park Fish Hatchery | ..... | T. | 18.5 | 5.0 | 9.0 | 9.0 | 3.0 | T. | 20.0 | 64.5 |
| Fairview | ..... | 23.8 | 45.5 | 66.5 | 11.1 | 28.4 | 17.5 | 48.3 | 26.9 | 268.0 |
| Fort Collins | ..... | ..... | 8.8 | 10.7 | 4.1 | 1.7 | ..... | ..... | ..... | 25.3 |
| Garfield | 6.0 | 6.0 | 37.0 | 33.5 | 15.0 | 41.0 | 7.0 | 10.5 | 10.0 | 152.5 |
| Grand Junction | ..... | T. | 1.1 | 9.9 | 7.5 | 1.2 | T. | 0.1 | ..... | 19.8 |
| Grand Lake | T. | T. | 2.0 | 25.2 | 8.5 | 16.2 | 8.5 | (*) | 9.0 | ..... |
| Hartsel | 3.0 | 0.2 | 9.2 | 9.6 | 3.0 | 5.9 | 1.3 | 1.0 | 5.5 | 108.1 |
| Hermit | 1.5 | 3.8 | 29.0 | 19.5 | 21.6 | 12.0 | 11.4 | 16.0 | 2.0 | 116.8 |
| Hoehne | ..... | T. | 18.5 | 9.0 | 2.0 | 10.0 | 4.0 | 6.0 | T. | 49.5 |
| Lake Moraine | 7.8 | 7.8 | 43.8 | 18.8 | 19.8 | 13.7 | 24.8 | 42.0 | 30.0 | 208.5 |
| Lamar | ..... | ..... | 4.0 | 5.0 | 2.0 | 7.0 | ..... | ..... | ..... | 18.0 |
| Las Animas | ..... | ..... | 18.0 | 8.5 | ..... | 8.0 | ..... | ..... | ..... | 34.5 |
| La Veta Pass | 2.0 | 13.2 | 31.9 | 25.8 | 1.8 | 13.4 | 9.2 | 28.3 | 5.0 | 130.6 |
| Longs Peak | ..... | ..... | 19.0 | (*) | 6.0 | 3.0 | 8.0 | 5.0 | 31.0 | ..... |
| Marshall Pass | 8.0 | 17.0 | 36.0 | 11.9 | 25.0 | 65.0 | 18.0 | 18.0 | 8.0 | 206.9 |
| Meeker | ..... | 1.5 | 23.3 | 16.0 | 17.0 | 11.5 | T. | 2.0 | T. | 71.3 |
| Nast | T. | 2.0 | 12.3 | 22.8 | 16.2 | 22.8 | 6.7 | 11.7 | 5.2 | 99.7 |
| North Lake | 0.5 | 8.5 | 29.5 | 23.5 | 7.5 | 19.5 | 5.5 | 20.5 | 4.0 | 119.0 |
| Pagoda | ..... | 2.0 | 18.0 | 49.0 | (*) | 30.0 | 11.0 | 6.0 | ..... | ..... |
| Pitkin | 2.0 | 3.5 | 13.9 | 27.5 | 15.5 | 17.8 | 4.2 | 6.7 | 5.0 | 96.1 |
| Platoro | 4.0 | 4.4 | 56.9 | 53.0 | 47.2 | 23.9 | 10.6 | 19.4 | 7.0 | 226.4 |
| Pueblo | ..... | T. | 9.8 | 8.6 | 2.3 | 6.9 | ..... | T. | T. | 27.6 |
| Redcliff | 7.5 | 10.0 | 23.0 | 31.5 | 22.0 | 41.0 | 24.5 | 15.7 | 9.5 | 184.7 |
| Rocky Ford | ..... | ..... | (*) | 2.2 | T. | 2.0 | T. | ..... | ..... | ..... |
| Saguache | ..... | (*) | 14.0 | 16.1 | T. | 3.8 | 4.2 | 1.1 | T. | ..... |
| St. Cloud | ..... | T. | 7.0 | 10.5 | 4.0 | 2.5 | 7.5 | ..... | T. | 31.5 |
| St. Elmo | T. | T. | 35.7 | 30.2 | 25.5 | 15.2 | 11.7 | 8.9 | 5.0 | 132.2 |
| Salida | ..... | T. | 31.8 | 20.0 | 6.5 | 20.0 | 5.5 | 1.0 | T. | 84.8 |
| San Luis | ..... | 15.8 | 9.4 | 4.5 | 3.0 | 2.9 | 8.2 | 4.8 | T. | 48.6 |
| Spruce Lodge | 11.5 | 13.5 | 15.5 | 48.0 | 25.0 | 39.0 | 15.0 | 23.0 | 22.0 | 212.5 |
| Steamboat Springs | 3.0 | 3.0 | 12.5 | 27.2 | 14.5 | 33.5 | 3.0 | ..... | T. | 96.7 |
| Trinidad | ..... | T. | 19.0 | 17.0 | 5.2 | 19.0 | 1.0 | 9.2 | 4.0 | 74.4 |
| Winfield | 2.5 | 3.5 | 17.8 | 21.0 | 17.8 | 6.4 | 10.5 | 0.9 | 4.0 | 84.4 |
| Wortman | 22.0 | 34.1 | 29.6 | 44.7 | 31.7 | 53.0 | 31.0 | 30.0 | 27.5 | 303.6 |
| Wray | ..... | T. | 7.0 | 6.8 | 2.0 | 2.7 | ..... | T. | ..... | 18.5 |
| Yampa | T. | ..... | 17.8 | 20.6 | 8.7 | 9.2 | 3.2 | 4.5 | 1.2 | 65.2 |
| *Connecticut.* | | | | | | | | | | |
| Canton | ..... | ..... | 3.5 | 20.0 | 10.0 | 17.0 | ..... | ..... | ..... | 50.5 |
| Hartford | ..... | ..... | 6.4 | 17.5 | 14.6 | 12.2 | 0.2 | 0.2 | ..... | 51.1 |
| Hawleyville | ..... | ..... | 3.5 | 10.0 | 5.0 | 17.0 | 2.0 | ..... | ..... | 37.5 |
| New Haven | ..... | ..... | 0.1 | 15.8 | 11.5 | 6.2 | 1.0 | T. | ..... | 34.6 |
| Southington | ..... | ..... | 4.5 | 12.0 | 11.0 | 12.0 | 0.5 | ..... | ..... | 40.0 |
| West Simsbury | ..... | ..... | 4.0 | (*) | 11.5 | 20.0 | T. | T. | ..... | ..... |
| *Delaware.* | | | | | | | | | | |
| Delaware City | ..... | ..... | 0.5 | 17.0 | 7.8 | 2.0 | 0.9 | T. | ..... | 28.2 |
| Dover | ..... | ..... | 2.0 | 25.0 | 2.0 | 2.0 | 2.0 | ..... | ..... | 33.0 |
| Milford | ..... | ..... | 3.0 | 25.5 | 3.0 | 6.0 | 4.0 | ..... | ..... | 41.5 |
| Millsboro | ..... | ..... | T. | 4.0 | 0.7 | 3.0 | 4.0 | ..... | ..... | 11.7 |
| Seaford | ..... | ..... | 0.5 | 5.0 | 1.5 | 3.0 | 4.0 | ..... | ..... | 14.0 |
| *District of Columbia.* | | | | | | | | | | |
| Washington | ..... | ..... | 1.5 | 5.2 | 9.5 | 3.4 | 3.2 | ..... | ..... | 22.8 |

MONTHLY AND SEASONAL SNOWFALL, 1909–1910—Continued.

| State and station. | 1909 | | | | 1910 | | | | | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | |
| *Florida.* | | | | | | | | | | |
| Blountstown | | | | | | T. | | | | T. |
| Jacksonville | | | | | | | | | | 0.0 |
| Madison | | | | | T. | | | | | T. |
| Pensacola | | | | | | T. | | T. | | T. |
| Tallahassee | | | | | T. | | | | | T. |
| Tampa | | | | | | | | | | 0.0 |
| *Georgia.* | | | | | | | | | | |
| Adairsville | | | | 2.0 | T. | 0.8 | | T. | | 2.8 |
| Americus | | | | (*) | (*) | (*) | (*) | T. | | |
| Atlanta | | | | T. | 0.3 | T. | | 1.5 | | 1.8 |
| Augusta | | | | | T. | | | | | T. |
| Clayton | | | | 3.0 | 1.0 | 3.0 | | T. | | 7.0 |
| Covington | | | | | | T. | | T. | | T. |
| Dahlonega | | | | 1.5 | 3.0 | 3.0 | | T. | | 7.5 |
| Harrison | | | | | | | | T. | | T. |
| Macon | | | | T. | 0.1 | | | T. | | 0.1 |
| Marshallville | | | | | T. | | | T. | | T. |
| Putnam | | | | | | | | | | 0.0 |
| Savannah | | | | | 0.2 | | | | | 0.2 |
| Talbotton | | | | | | | | T. | | T. |
| *Idaho.* | | | | | | | | | | |
| Blackfoot | T. | 5.0 | | 8.0 | 14.0 | 14.0 | | | | 41.0 |
| Blackfoot Dam | | 7.0 | 14.4 | 17.5 | 24.0 | 25.0 | 6.0 | 1.0 | | 94.9 |
| Boise | | 0.2 | 2.0 | 6.2 | 17.6 | 15.7 | 0.3 | T. | | 42.0 |
| Burke | T. | 1.0 | 19.5 | 23.0 | 58.5 | 89.0 | 13.0 | 9.5 | T. | 213.5 |
| Edie | | T. | 10.0 | 9.0 | 21.0 | 4.0 | | 4.0 | | 48.0 |
| Forney | 0.5 | 4.7 | 12.0 | 12.0 | 4.5 | 10.5 | 6.5 | 3.0 | 1.0 | 54.7 |
| Lakeview | | | 6.0 | 12.0 | 16.0 | 30.0 | | | | 64.0 |
| Lewiston | | | | 2.4 | 3.0 | 5.0 | | | | 10.4 |
| McCall | | 5.0 | 11.2 | 30.5 | 30.0 | 23.0 | 3.0 | (*) | | |
| Moscow | | 1.0 | 2.0 | 10.0 | 22.2 | 27.7 | | 0.8 | | 63.7 |
| Oakley | | T. | 1.0 | 2.5 | 20.5 | 10.0 | | T. | | 34.0 |
| Payette | | | 2.5 | 13.1 | 11.0 | 14.3 | T. | T. | | 40.9 |
| Pocatello | | 2.1 | 1.4 | 8.6 | 11.5 | 8.9 | T. | 0.7 | 0.1 | 33.3 |
| Porthill | | | 10.0 | 24.0 | 21.0 | 25.0 | 6.0 | | | 86.0 |
| Silver City | 1.0 | 1.0 | 17.4 | 26.5 | 15.9 | 30.1 | 1.2 | T. | | 93.1 |
| Weston | | | 3.0 | 11.5 | 8.5 | 11.0 | | | | 34.0 |
| *Illinois.* | | | | | | | | | | |
| Albion | | | | 4.0 | 7.0 | 13.8 | | 3.2 | | 28.0 |
| Aledo | | T. | 0.5 | 15.0 | 5.2 | 5.0 | | 2.5 | | 28.2 |
| Alexander | | T. | T. | 12.2 | 4.7 | 3.5 | | 2.5 | | 22.9 |
| Bloomington | | T. | | 15.2 | 3.8 | 0.7 | | 4.0 | | 23.7 |
| Cairo | | | | 1.0 | 7.7 | 3.9 | | 1.6 | | 14.2 |
| Carlinville | | T. | | 14.0 | 4.8 | 12.5 | | 3.0 | | 34.3 |
| Charleston | | | | 12.2 | 2.5 | 14.1 | | 2.0 | | 30.8 |
| Chicago | | T. | T. | 19.1 | 14.8 | 2.8 | T. | 6.9 | | 43.6 |
| Cobden | | | | (*) | 5.0 | (*) | | 1.0 | | |
| Greenville | | | | 12.7 | 1.5 | 20.5 | | 1.5 | | 36.2 |
| Joilet | | T. | T. | 16.9 | 7.4 | 2.4 | | 4.4 | | 31.1 |
| La Salle | | T. | T. | 21.0 | 3.2 | 3.6 | | 4.6 | | 32.4 |
| Oregon | | | 1.5 | 23.7 | 17.2 | 4.0 | | 6.5 | | 52.9 |
| Ottawa | | T. | T. | (*) | 10.4 | 2.0 | | 6.0 | | |
| Palestine | | | | (*) | 3.0 | 19.5 | | (*) | | |
| Peoria | | T. | T. | 18.0 | 2.3 | 2.1 | | 1.7 | | 24.1 |
| Rantoul | | T. | T. | 16.0 | 1.5 | 5.5 | | 7.0 | | 30.0 |
| Riley | | 0.2 | 2.0 | 21.8 | 12.1 | 4.4 | T. | 4.5 | | 45.0 |
| Springfield | | T. | | 13.3 | 2.4 | 5.4 | | 3.6 | | 24.7 |
| *Indiana.* | | | | | | | | | | |
| Butlerville | | | T. | 7.3 | 14.5 | 26.8 | T. | 2.2 | | 50.8 |
| Cambridge City | | T. | | 10.0 | 10.2 | 21.5 | | T. | | 41.7 |
| Evansville | | | | 5.8 | 9.3 | 13.3 | | 3.7 | | 32.1 |
| Fort Wayne | | T. | T. | 18.0 | 7.1 | 8.7 | T. | 1.8 | T. | 35.6 |
| Greensburg | | | | 9.5 | 12.0 | 26.0 | T. | T. | | 47.5 |

MONTHLY AND SEASONAL SNOWFALL, 1909–1910—Continued.

| State and station. | 1909 | | | | 1910 | | | | | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | |
| *Indiana*—Continued. | | | | | | | | | | |
| Indianapolis | ..... | T. | T. | 8.2 | 3.1 | 21.0 | T. | 0.3 | ..... | 32.6 |
| Kokomo | ..... | T. | T. | 13.0 | 2.0 | 11.8 | T. | (*) | ..... | ..... |
| Lafayette | ..... | T. | T. | 21.2 | 2.3 | 9.4 | T. | 2.2 | ..... | 35.1 |
| Laporte | ..... | T. | 0.4 | 11.0 | 12.6 | 10.2 | T. | 4.0 | ..... | 38.2 |
| Lima | ..... | ..... | ..... | 14.0 | 15.0 | 7.0 | 6.0 | ..... | ..... | 42.0 |
| Marengo | ..... | ..... | ..... | 3.5 | 15.5 | 17.0 | ..... | T. | ..... | 36.0 |
| Markle | ..... | T. | T. | 15.0 | 0.5 | 12.0 | ..... | 5.0 | ..... | 32.5 |
| Richmond | ..... | T. | T. | 8.3 | 7.1 | 22.4 | T. | 3.1 | ..... | 40.9 |
| Scottsburg | (*) | (*) | ..... | 7.0 | 11.5 | 21.0 | ..... | 0.5 | ..... | ..... |
| South Bend | ..... | 1.0 | 0.5 | 21.5 | 19.0 | 7.0 | T. | 10.5 | ..... | 59.5 |
| Terre Haute | ..... | ..... | ..... | 10.5 | 7.5 | 10.6 | 0.7 | 0.5 | ..... | 29.8 |
| Vevay | ..... | T. | ..... | 8.0 | 15.0 | 21.0 | T. | T. | ..... | 44.0 |
| *Iowa.* | | | | | | | | | | |
| Afton | ..... | T. | 3.5 | 13.0 | 12.0 | 7.0 | ..... | T. | ..... | 35.5 |
| Albia | ..... | T. | 1.0 | 9.2 | 6.0 | 2.0 | ..... | 2.0 | ..... | 20.2 |
| Algona | ..... | T. | 23.5 | 17.0 | 16.0 | 3.5 | ..... | 5.0 | ..... | 65.0 |
| Allerton | ..... | T. | 0.2 | 7.7 | 7.1 | 3.6 | ..... | 1.4 | ..... | 22.0 |
| Alta | ..... | T. | 11.0 | 11.0 | 14.0 | 2.0 | ..... | 4.5 | ..... | 42.5 |
| Alta (near) | ..... | ..... | 13.2 | 12.0 | 11.0 | 2.2 | ..... | 4.5 | ..... | 42.9 |
| Alton | ..... | T. | 16.5 | 11.0 | 14.5 | 1.5 | ..... | 3.0 | ..... | 46.5 |
| Amana | ..... | T. | 3.0 | 12.0 | 9.3 | 1.3 | ..... | 3.4 | ..... | 29.0 |
| Ames | ..... | T. | 4.5 | 7.0 | 8.0 | 3.5 | ..... | 1.0 | ..... | 24.0 |
| Atlantic | ..... | T. | 5.0 | 15.0 | 6.0 | 3.5 | ..... | 1.0 | ..... | 30.5 |
| Audubon | ..... | T. | 9.5 | 11.2 | 17.0 | 10.8 | ..... | 5.7 | ..... | 54.2 |
| Baxter | ..... | T. | 3.2 | 14.0 | 12.6 | 1.8 | ..... | 2.5 | ..... | 34.1 |
| Bedford | ..... | T. | 1.2 | 11.2 | 17.8 | 2.5 | ..... | 0.8 | ..... | 33.5 |
| Belle Plaine | ..... | T. | 4.5 | 16.5 | 21.0 | 6.0 | ..... | 8.0 | ..... | 56.0 |
| Boone | ..... | T. | 5.0 | 13.0 | 3.0 | 2.0 | ..... | 1.0 | ..... | 24.0 |
| Britt | ..... | T. | 16.6 | (*) | 11.3 | 1.0 | ..... | 1.7 | ..... | ..... |
| Burlington | ..... | T. | T. | 24.0 | 6.1 | 6.4 | ..... | 10.5 | ..... | 47.0 |
| Carroll | ..... | T. | 7.0 | 11.0 | 5.0 | 2.0 | ..... | 1.0 | ..... | 26.0 |
| Cedar Rapids | ..... | T. | 1.0 | 12.2 | 11.5 | 1.2 | ..... | 2.0 | ..... | 27.9 |
| Chariton | ..... | T. | 1.0 | 13.0 | 4.0 | 7.0 | T. | 2.0 | ..... | 27.0 |
| Charles City | ..... | T. | 13.6 | 16.3 | 26.2 | 7.7 | ..... | 1.6 | ..... | 65.4 |
| Clarinda | ..... | T. | 5.0 | 12.5 | 10.2 | 2.8 | ..... | 1.3 | ..... | 31.8 |
| Columbus Junction | ..... | T. | 1.0 | 15.0 | 6.0 | 3.5 | ..... | 4.5 | ..... | 30.0 |
| Corning | ..... | T. | 4.0 | 10.0 | 8.0 | 5.0 | ..... | T. | ..... | 27.0 |
| Davenport | ..... | T. | 0.7 | 16.3 | 7.5 | 3.5 | ..... | 0.6 | ..... | 28.6 |
| Decorah | ..... | ..... | 9.5 | 17.0 | 18.5 | 8.0 | ..... | 4.5 | ..... | 57.5 |
| Delaware | ..... | ..... | 3.0 | 12.3 | 12.1 | 6.0 | ..... | 4.4 | ..... | 37.8 |
| Des Moines | ..... | T. | 1.8 | 16.0 | 12.3 | 1.8 | ..... | 0.7 | ..... | 32.6 |
| De Soto | ..... | T. | 1.0 | 10.5 | 13.0 | 4.0 | ..... | 0.5 | ..... | 29.0 |
| Dubuque | ..... | 0.1 | 3.5 | 17.7 | 22.1 | 4.6 | T. | 7.6 | ..... | 55.6 |
| Elkader | ..... | ..... | 4.0 | 16.5 | 26.5 | 10.0 | ..... | 7.0 | ..... | 64.0 |
| Elliott | ..... | T. | 6.0 | 13.0 | 5.0 | 5.5 | ..... | T. | ..... | 29.5 |
| Estherville | ..... | 0.5 | 12.0 | 6.5 | 15.5 | 1.5 | ..... | 4.5 | ..... | 40.5 |
| Fairfield | ..... | T. | 0.5 | 10.4 | 5.9 | 2.8 | ..... | 2.1 | ..... | 21.7 |
| Fayette | ..... | T. | 5.8 | 24.5 | 23.0 | 11.3 | ..... | 8.3 | ..... | 72.9 |
| Forest City | ..... | T. | 15.5 | 12.0 | 24.0 | 3.0 | ..... | 1.0 | ..... | 55.5 |
| Fort Dodge | ..... | T. | 9.5 | 10.0 | 18.0 | 2.0 | ..... | 2.0 | ..... | 41.5 |
| Grand Meadow | ..... | T. | 7.0 | 15.2 | 18.2 | 9.2 | T. | 8.2 | ..... | 57.8 |
| Grinnell | ..... | T. | 2.5 | 13.5 | 14.2 | 1.5 | ..... | 1.2 | ..... | 32.9 |
| Guthrie Center | ..... | T. | 7.0 | 13.0 | 8.8 | 7.5 | ..... | 1.5 | ..... | 37.8 |
| New Hampton | ..... | ..... | 14.0 | 17.2 | 20.0 | 7.2 | ..... | 3.2 | ..... | 61.6 |
| Hancock | ..... | ..... | 7.0 | 12.6 | 6.0 | 2.1 | ..... | 1.0 | ..... | 28.7 |
| Harlan | ..... | 0.2 | 8.0 | 16.5 | 9.2 | 4.5 | ..... | 1.2 | ..... | 39.6 |
| Humboldt | ..... | (*) | 14.0 | 12.0 | 26.5 | 3.0 | ..... | 2.0 | ..... | ..... |
| Independence | ..... | T. | 4.5 | 28.0 | 22.5 | 1.2 | ..... | 3.0 | ..... | 59.2 |
| Indianola | ..... | 0.1 | 4.0 | 14.8 | 12.6 | 6.0 | ..... | 0.6 | ..... | 38.1 |
| Inwood | ..... | 0.1 | 12.3 | 11.0 | 10.3 | 0.2 | ..... | 4.3 | ..... | 38.2 |
| Iowa City | ..... | (*) | 2.0 | 14.0 | 10.0 | 3.0 | ..... | (*) | ..... | ..... |
| Iowa Falls | ..... | T. | 6.5 | 17.5 | 17.7 | 6.5 | ..... | 2.0 | ..... | 50.2 |
| Keokuk | ..... | 0.5 | T. | 8.3 | 3.0 | 1.3 | ..... | T. | ..... | 13.1 |
| Keosauqua | ..... | T. | 0.5 | 11.2 | 7.5 | 4.5 | ..... | 7.8 | ..... | 31.5 |
| Knoxville | ..... | T. | 2.0 | 11.5 | 9.5 | 6.5 | ..... | 1.8 | ..... | 31.3 |
| Lacona | ..... | T. | 2.0 | 25.0 | 14.0 | 7.0 | ..... | 4.0 | ..... | 52.0 |
| Lamoni | ..... | T. | 1.0 | 14.0 | 7.1 | 2.0 | ..... | 1.2 | ..... | 25.3 |

MONTHLY AND SEASONAL SNOWFALL, 1909–1910—Continued.

| State and station. | 1909 | | | | 1910 | | | | | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | |
| *Iowa*—Continued. | | | | | | | | | | |
| Le Claire | ..... | T. | 1.5 | 17.4 | 9.7 | 3.8 | ..... | 4.7 | ..... | 37.1 |
| Lenox | ..... | T. | 2.5 | 8.1 | 4.8 | 3.0 | ..... | 0.6 | ..... | 19.0 |
| Leon | ..... | T. | 1.5 | 12.2 | 12.8 | 5.0 | ..... | 3.0 | ..... | 34.5 |
| Little Sioux | ..... | T. | 7.5 | 13.0 | 10.5 | 3.0 | ..... | 2.5 | ..... | 36.5 |
| Logan | ..... | T. | T. | (*) | (*) | (*) | ..... | 2.5 | ..... | ..... |
| Mason City | ..... | T. | 13.2 | 10.0 | 13.5 | 2.3 | ..... | 1.4 | ..... | 40.4 |
| Mount Ayr | ..... | ..... | 1.8 | 9.5 | 8.5 | 4.1 | ..... | 0.5 | ..... | 24.4 |
| Mount Pleasant | ..... | T. | 0.8 | 12.2 | 6.5 | 5.6 | ..... | 5.6 | ..... | 30.7 |
| Muscatine | ..... | T. | 0.4 | 17.7 | 6.9 | 5.2 | ..... | 3.0 | ..... | 33.2 |
| Northwood | ..... | T. | 20.0 | 13.0 | 21.5 | 4.8 | ..... | 8.5 | ..... | 67.8 |
| Odebolt | ..... | T. | 16.5 | 9.0 | 10.0 | 3.5 | ..... | 2.0 | ..... | 41.0 |
| Onawa | ..... | T. | 12.5 | 13.5 | 9.1 | 4.0 | ..... | 2.5 | ..... | 41.6 |
| Ottumwa | ..... | T. | 1.2 | 8.3 | 6.7 | 4.2 | ..... | 1.2 | ..... | 21.6 |
| Pacific Junction | ..... | T. | 4.1 | 18.3 | 7.7 | 4.3 | T. | 1.1 | ..... | 35.5 |
| Pella | ..... | 0.2 | 2.0 | 14.5 | 10.9 | 4.5 | ..... | 2.8 | T. | 34.9 |
| Plover | ..... | T. | 29.5 | 10.0 | 11.0 | 1.0 | ..... | 2.0 | ..... | 53.5 |
| Pocahontas | ..... | 0.2 | 18.0 | 8.3 | 10.5 | 1.7 | ..... | 1.6 | ..... | 40.3 |
| Ridgeway | ..... | T. | 14.1 | 20.0 | 12.5 | 4.1 | ..... | 11.0 | ..... | 61.7 |
| Rock Rapids | ..... | T. | 20.0 | 8.0 | 15.0 | 1.0 | ..... | 6.0 | ..... | 50.0 |
| Rockwell City | ..... | ..... | 8.0 | 17.0 | 18.0 | 11.0 | ..... | 9.0 | ..... | 63.0 |
| Sac City | ..... | T. | 10.4 | 14.5 | 14.0 | 3.0 | ..... | 2.0 | ..... | 43.9 |
| St. Charles | ..... | T. | 3.0 | 14.5 | 14.6 | 3.0 | ..... | 1.6 | ..... | 36.7 |
| Sheldon | ..... | T. | 18.5 | 29.0 | 26.0 | 1.0 | ..... | 9.5 | T. | 84.0 |
| Sibley | ..... | T. | 9.2 | 9.5 | 10.5 | T. | ..... | 5.2 | ..... | 34.4 |
| Sigourney | ..... | ..... | 3.0 | 17.5 | 10.0 | 5.5 | T. | 0.5 | ..... | 36.5 |
| Sioux Center | ..... | T. | 9.5 | 8.5 | 15.5 | 2.0 | ..... | 4.0 | T. | 39.5 |
| Sioux City | ..... | T. | 12.1 | 8.3 | 9.6 | 2.2 | ..... | 1.2 | T. | 33.4 |
| Stockport | ..... | T. | 0.5 | 14.0 | 5.0 | 3.0 | ..... | 8.0 | ..... | 30.5 |
| Storm Lake | ..... | T. | 10.5 | 8.5 | 17.5 | 0.5 | ..... | 5.0 | ..... | 42.0 |
| Thurman | ..... | T. | 4.0 | 13.9 | 10.2 | T. | T. | (*) | ..... | ..... |
| Wapello | ..... | ..... | T. | 12.5 | 18.0 | 3.5 | ..... | 1.5 | ..... | 35.5 |
| Washta | ..... | T. | 10.5 | 8.5 | 6.0 | 2.5 | ..... | 2.0 | ..... | 29.5 |
| Waukee | ..... | T. | 2.8 | 13.5 | 8.8 | 3.2 | ..... | 0.6 | ..... | 28.9 |
| Waverly | ..... | T. | 6.0 | 16.6 | 16.2 | 7.8 | ..... | 2.8 | ..... | 49.4 |
| Webster City | ..... | T. | 8.0 | 22.5 | 15.0 | 5.0 | ..... | 1.0 | ..... | 51.5 |
| West Bend | ..... | T. | 12.8 | 5.9 | 12.0 | 1.0 | ..... | 3.0 | ..... | 34.7 |
| Whitten | ..... | T. | T. | 10.0 | 13.0 | 6.0 | ..... | 2.0 | ..... | 31.0 |
| Woodburn | ..... | T. | 3.0 | 16.0 | 9.0 | 9.5 | ..... | 1.5 | ..... | 39.0 |
| Zearing | ..... | T. | 3.5 | 20.2 | 25.0 | 9.0 | ..... | 0.5 | ..... | 58.2 |
| *Kansas.* | | | | | | | | | | |
| Burlington | ..... | ..... | ..... | 4.0 | 4.0 | 1.0 | T. | ..... | ..... | 9.0 |
| Colby | ..... | T. | 8.5 | 6.7 | 2.7 | 4.0 | ..... | T. | T. | 21.9 |
| Columbus | ..... | ..... | ..... | 4.2 | 0.2 | 9.1 | ..... | T. | ..... | 13.5 |
| Concordia | ..... | T. | 8.0 | 10.2 | 5.4 | 0.2 | T. | T. | ..... | 23.8 |
| Dodge | ..... | T. | 2.2 | 9.8 | 2.4 | 4.5 | ..... | ..... | ..... | 18.9 |
| Emporia | ..... | ..... | ..... | 9.0 | 6.0 | ..... | T. | ..... | ..... | 15.0 |
| Fall River | ..... | ..... | ..... | 4.0 | ..... | 3.5 | T. | T. | ..... | 7.5 |
| Frankfort | ..... | T. | 0.2 | 10.0 | 8.5 | T. | T. | 1.0 | ..... | 19.7 |
| Garden City | ..... | T. | 4.0 | 4.6 | 4.0 | T. | ..... | ..... | ..... | 12.6 |
| Grenola | ..... | ..... | ..... | 3.0 | 1.0 | 3.0 | ..... | ..... | ..... | 7.0 |
| Horton | ..... | T. | T. | 8.5 | 6.0 | 1.0 | T. | T. | ..... | 15.5 |
| Hugoton | ..... | ..... | T. | 5.8 | 3.0 | 8.0 | ..... | ..... | ..... | 16.8 |
| Hutchinson | ..... | ..... | ..... | 4.5 | 3.0 | 0.8 | ..... | ..... | ..... | 8.3 |
| Independence | ..... | ..... | ..... | 5.4 | T. | 7.6 | ..... | T. | ..... | 13.0 |
| Iola | ..... | ..... | ..... | 5.0 | 2.5 | 4.4 | 1.4 | T. | ..... | 13.3 |
| Lakin | ..... | ..... | 1.0 | 6.0 | 5.0 | 1.0 | ..... | ..... | ..... | 13.0 |
| McPherson | ..... | ..... | ..... | 10.5 | 3.0 | T. | ..... | ..... | ..... | 13.5 |
| Manhattan | ..... | T. | T. | 12.6 | 6.8 | T. | ..... | T. | ..... | 19.4 |
| Marion | ..... | ..... | ..... | 7.5 | 3.0 | T. | ..... | T. | ..... | 10.5 |
| Minneapolis | ..... | T. | 0.5 | 10.0 | 4.5 | T. | ..... | ..... | ..... | 15.0 |
| Moran | ..... | ..... | ..... | 6.0 | 1.0 | 8.5 | 1.0 | T. | ..... | 16.5 |
| Ness City | ..... | (*) | (*) | 4.0 | 4.5 | (*) | (*) | ..... | ..... | ..... |
| Pratt | ..... | ..... | T. | 2.5 | 4.0 | 2.1 | ..... | ..... | ..... | 8.6 |
| Rome | ..... | ..... | ..... | 4.0 | 2.0 | 2.1 | ..... | ..... | ..... | 8.1 |
| St. Francis | ..... | T. | 9.0 | 9.5 | 2.5 | 1.0 | ..... | T. | ..... | 22.0 |
| Sedan | ..... | ..... | ..... | 6.0 | 4.6 | 4.9 | ..... | ..... | ..... | 15.5 |
| Topeka | ..... | ..... | T. | 8.8 | 6.4 | 0.2 | T. | T. | ..... | 15.4 |
| Wichita | ..... | ..... | ..... | 6.0 | 0.8 | 3.3 | ..... | ..... | ..... | 10.1 |

MONTHLY AND SEASONAL SNOWFALL, 1909–1910—Continued.

| State and station. | 1909 | | | | 1910 | | | | | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | |
| *Kentucky.* | | | | | | | | | | |
| Alpha | | | T. | 8.0 | 4.0 | 18.0 | | T. | | 40.0 |
| Beattyville | | | | 10.0 | 15.0 | 15.0 | T. | T. | | 40.0 |
| Bowling Green | | | | 5.2 | 13.5 | 13.5 | (*) | 2.3 | | |
| Earlington | | | | 1.5 | 15.5 | 7.0 | T. | T. | | 24.0 |
| Edmonton | | | | 5.2 | 6.5 | 5.5 | T. | T. | | 17.2 |
| Eubank | | | | 5.6 | 7.3 | 11.6 | T. | (*) | | |
| Falmouth | | | | 4.2 | 15.0 | 17.0 | T. | T. | | 36.2 |
| Irvington | | | T. | 1.7 | 14.0 | 10.5 | T. | T. | | 26.2 |
| Lexington | | | T. | 5.0 | 12.8 | 8.9 | T. | 0.8 | | 27.5 |
| Louisville | | | T. | 1.7 | 10.3 | 17.4 | T. | T. | | 29.4 |
| Lynnville | | | | 1.0 | 17.4 | 8.0 | | 7.0 | | 33.4 |
| Scott | | T. | T. | 6.3 | 11.7 | 19.5 | T. | 0.1 | | 37.6 |
| Williamsburg | | | T. | 2.4 | 4.7 | 5.2 | | T. | | 12.3 |
| *Louisiana.* | | | | | | | | | | |
| Abbeville | | | | T. | | | | | | T. |
| Alexandria | | | | | | T. | | | | T. |
| Amite | | | | | | T. | | | | T. |
| Calhoun | | | | 3.0 | 0.5 | 10.5 | | | | 14.0 |
| Collinston | | | | T. | 0.1 | 4.3 | | | | 4.4 |
| Dodson | | | | 1.5 | | 5.5 | | | | 7.0 |
| Farmerville | | | | 7.0 | T. | T. | | | | 7.0 |
| Ferriday | | | | | T. | | | | | T. |
| Grand Cane | | | | 0.2 | | 3.0 | | | | 3.2 |
| Grand Coteau | | | | | T. | | | | | T. |
| Liberty Hill | | | | T. | 0.5 | 9.0 | | | | 9.5 |
| Logansport | | | | | T. | 1.7 | | | | 1.7 |
| Melville | | | | | T. | | | | | T. |
| Minden | | | | 6.0 | 0.3 | 2.0 | | | | 8.3 |
| Monroe | | | | 0.5 | 0.5 | 0.4 | | | | 1.4 |
| Newellton | | | | T. | | T. | | | | T. |
| Plain Dealing | | | | 3.0 | 1.8 | 6.5 | | | | 11.3 |
| Robeline | | | | (*) | | 4.2 | | | | |
| Ruston | | | | | 0.2 | 0.8 | | | | 1.0 |
| Shreveport | | | | 1.6 | 0.4 | 2.7 | | | | 4.7 |
| Tallulah | | | | T. | | T. | | | | T. |
| *Maine.* | | | | | | | | | | |
| Bar Harbor | | | 2.0 | 11.5 | 17.0 | 27.5 | 0.5 | T. | T. | 58.8 |
| Eastport | | 0.2 | 2.4 | 9.6 | 7.2 | 28.5 | 4.8 | 1.7 | 1.4 | 55.8 |
| Farmington | | | 3.5 | 15.0 | 12.5 | 27.5 | 6.0 | | | 64.5 |
| Gardiner | | | 4.5 | 8.5 | 4.0 | 30.0 | (*) | | | |
| Lewiston | | | 3.1 | 10.3 | 6.3 | 33.0 | 1.5 | | | 54.2 |
| Orono | | T. | 0.5 | 15.2 | 11.0 | 23.5 | 1.0 | T. | | 51.2 |
| Portland | | | 2.8 | 8.4 | 5.0 | 37.5 | T. | T. | | 53.7 |
| Rumford Falls | | | 3.2 | 14.8 | 14.2 | 28.5 | 6.0 | 0.1 | | 66.8 |
| Winslow | | | 3.8 | 13.0 | 11.0 | 22.0 | 1.0 | | | 50.8 |
| *Maryland.* | | | | | | | | | | |
| Annapolis | | | T. | 10.5 | 0.6 | (*) | T. | | | |
| Baltimore | | | T. | 10.9 | 12.8 | 3.8 | 2.1 | | | 29.6 |
| Cambridge | | | T. | 8.6 | 6.8 | 7.0 | 5.0 | | | 27.4 |
| Cheltenham | | | 4.0 | 7.0 | 4.5 | 2.0 | 3.0 | | | 20.5 |
| Chestertown | | | 2.0 | 16.0 | 6.5 | 2.0 | 3.5 | | | 30.0 |
| Chewsville | | | T. | 8.0 | 22.7 | 5.5 | 0.5 | | | 36.7 |
| Clear Spring | | | 0.7 | 8.5 | 24.5 | 10.0 | 1.0 | T. | | 44.7 |
| Cumberland | | | T. | 5.0 | (*) | 10.0 | T. | T. | | |
| Darlington | | | 1.5 | 19.0 | 7.3 | 3.0 | 2.0 | | | 32.8 |
| Deer Park | | 0.2 | 0.5 | 30.0 | 24.0 | 17.0 | 2.0 | 2.0 | | 75.7 |
| Denton | | | 1.0 | 8.0 | 1.9 | 4.0 | 4.0 | | | 18.9 |
| Easton | | | T. | 5.5 | 1.4 | 3.0 | 5.6 | | | 15.5 |
| Fallston | | | 2.0 | 13.0 | 18.0 | 2.0 | 2.5 | | | 37.5 |
| Frederick | | | T. | 9.5 | 22.0 | 3.6 | 2.7 | | | 37.8 |
| Frostburg | | T. | 1.0 | 8.6 | 17.4 | 9.2 | 0.3 | T. | T. | 36.5 |
| Grantsville | | T. | 2.0 | 27.0 | 27.0 | 13.5 | 1.0 | 2.0 | | 72.5 |
| Great Falls | | | 0.5 | 7.0 | 7.0 | 0.5 | 2.5 | | | 17.5 |
| Green Spring Furance | | | 0.4 | 6.5 | 20.0 | 8.0 | 0.5 | | | 35.4 |
| Keedysville | | | T. | 7.5 | 16.0 | 5.5 | 1.0 | T. | | 30.0 |

MONTHLY AND SEASONAL SNOWFALL, 1909–1910—Continued.

| State and station. | 1909 | | | | 1910 | | | | | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | |
| *Maryland*—Continued. | | | | | | | | | | |
| Laurel | ..... | T. | 2.0 | 10.5 | 9.0 | 2.0 | 2.0 | ..... | ..... | 25.5 |
| Monrovia | ..... | ..... | T. | 8.6 | 15.9 | 3.5 | 2.7 | ..... | ..... | 30.7 |
| Oakland | ..... | 0.7 | 1.2 | 17.8 | 20.3 | 11.2 | 2.9 | 2.6 | T. | 56.7 |
| Pocomoke City | ..... | ..... | ..... | 2.8 | 0.5 | 0.8 | 0.8 | ..... | ..... | 4.9 |
| Princess Anne | ..... | ..... | T. | 2.4 | 2.0 | 2.0 | 6.0 | ..... | ..... | 12.4 |
| Rockville | ..... | ..... | 1.0 | 10.0 | 16.0 | 2.0 | 3.0 | ..... | ..... | 32.0 |
| Salisbury | ..... | ..... | 0.5 | 9.2 | 1.4 | 4.0 | 4.0 | ..... | ..... | 19.1 |
| Sudlersville | ..... | ..... | 3.0 | 25.6 | 3.5 | 3.0 | 1.8 | ..... | ..... | 36.9 |
| Taneytown | ..... | ..... | T. | 5.6 | 21.2 | 6.0 | 1.0 | ..... | ..... | 33.8 |
| Westernport | ..... | ..... | T. | 4.7 | 19.2 | 7.0 | 0.7 | ..... | ..... | 31.6 |
| Woodstock | ..... | ..... | (*) | 5.0 | 17.7 | 3.5 | 1.0 | ..... | ..... | ..... |
| *Massachusetts.* | | | | | | | | | | |
| Amherst | ..... | T. | 2.5 | 12.0 | 19.5 | 18.5 | T. | (*) | ..... | ..... |
| Bedford | ..... | T. | 2.5 | 18.0 | 10.5 | 22.0 | T. | ..... | ..... | 53.0 |
| Boston | ..... | T. | T. | 12.3 | 11.9 | 12.6 | 0.2 | ..... | ..... | 37.0 |
| Concord | ..... | ..... | 2.5 | 19.8 | 12.9 | 21.9 | 0.1 | ..... | ..... | 57.2 |
| Fitchburg | ..... | T. | 3.5 | 18.0 | 17.5 | 26.0 | T. | T. | ..... | 65.0 |
| Hyannis | ..... | ..... | ..... | 4.0 | 19.5 | 5.5 | 2.0 | ..... | ..... | 31.0 |
| Jefferson | ..... | ..... | 3.0 | 17.0 | 20.5 | 23.5 | ..... | ..... | ..... | 64.0 |
| Nantucket | ..... | ..... | T. | 0.8 | 21.5 | 3.3 | 2.8 | ..... | ..... | 28.4 |
| Plymouth | ..... | ..... | ..... | 4.0 | 11.0 | 7.5 | 2.0 | ..... | ..... | 24.5 |
| Worcester | ..... | T. | 3.2 | 16.9 | 16.1 | 24.0 | T. | ..... | T. | 60.2 |
| *Michigan.* | | | | | | | | | | |
| Adrian | ..... | ..... | (*) | 11.5 | 10.5 | 5.5 | 0.5 | ..... | ..... | ..... |
| Alma | ..... | 1.0 | 2.0 | 26.0 | 15.0 | 9.5 | T. | T. | ..... | 53.5 |
| Alpena | ..... | T. | 12.6 | 27.7 | 18.0 | 10.4 | 0.8 | 0.1 | T. | 69.6 |
| Ann Arbor | ..... | T. | 0.5 | 14.3 | 14.3 | 7.7 | 0.3 | 0.1 | ..... | 37.2 |
| Arbela | ..... | 1.5 | 2.0 | 22.0 | 7.5 | 9.5 | T. | T. | T. | 42.5 |
| Battle Creek | ..... | T. | T. | 12.0 | 17.5 | 3.0 | T. | T. | ..... | 32.5 |
| Big Rapids | ..... | ..... | 6.0 | 28.0 | 13.0 | 13.0 | T. | ..... | ..... | 60.0 |
| Calumet | ..... | 10.0 | 20.5 | 40.5 | 51.0 | 24.0 | 0.5 | 9.0 | 0.5 | 156.0 |
| Cassopolis | ..... | T. | 1.0 | 20.0 | 16.0 | 10.0 | ..... | 1.5 | ..... | 48.5 |
| Charlevoix | ..... | (*) | 2.0 | 42.5 | 22.0 | 8.0 | T. | 2.0 | ..... | ..... |
| Cheboygan | ..... | T. | 6.0 | 22.0 | 19.0 | 17.5 | T. | 1.0 | ..... | 65.5 |
| Detroit | ..... | 0.4 | 0.3 | 14.7 | 22.2 | 9.1 | 0.1 | T. | T. | 46.8 |
| Escanaba | ..... | 0.1 | 16.0 | 20.8 | 15.2 | 14.7 | 2.0 | 16.3 | ..... | 85.1 |
| Frankfort | ..... | ..... | 5.0 | 52.0 | 26.5 | 27.0 | ..... | 2.0 | (*) | ..... |
| Grand Haven | ..... | T. | 3.7 | 47.4 | 26.6 | 13.6 | 0.4 | 0.2 | ..... | 91.9 |
| Grand Rapids | ..... | 0.2 | 1.8 | 24.2 | 10.3 | 4.9 | T. | T. | ..... | 41.4 |
| Harrison | ..... | T. | 6.0 | 31.0 | 14.0 | 16.0 | T. | T. | ..... | 67.0 |
| Harrisonville | ..... | T. | 8.0 | 39.0 | 19.5 | 15.5 | 1.5 | 1.0 | (*) | ..... |
| Hart | ..... | (*) | 2.0 | 26.0 | 16.0 | 16.0 | ..... | T. | ..... | ..... |
| Houghton | ..... | 4.7 | 21.4 | 32.5 | 28.1 | 21.6 | 1.3 | 8.6 | T. | 118.2 |
| Iron River | ..... | T. | 6.0 | 8.0 | 13.0 | 13.0 | 1.0 | 3.0 | T. | 44.0 |
| Ishpeming | ..... | 4.0 | 14.7 | 15.0 | 14.2 | 13.0 | 1.1 | 10.2 | 0.3 | 72.5 |
| Ivan | ..... | 3.5 | 11.5 | 33.7 | 21.0 | 11.5 | 1.0 | 2.0 | T. | 84.2 |
| Lansing | ..... | 1.0 | 1.0 | 19.2 | 16.2 | 6.0 | 0.3 | T. | T. | 43.7 |
| Mancelona | ..... | T. | 6.0 | 34.0 | 17.0 | 8.0 | T. | T. | T. | 65.0 |
| Marquette | ..... | 4.0 | 13.7 | 34.4 | 24.3 | 30.1 | 1.0 | 19.0 | 0.3 | 126.8 |
| Olivet | ..... | 2.0 | 1.6 | 14.4 | 14.4 | 6.0 | 0.2 | 0.8 | ..... | 39.4 |
| Port Huron | ..... | T. | 2.0 | 17.6 | 14.8 | 9.4 | 0.2 | T. | ..... | 44.0 |
| Sault Ste Marie | ..... | 1.0 | 3.4 | 13.1 | 10.1 | 19.4 | 1.3 | 1.3 | T. | 49.6 |
| Thomston | ..... | ..... | 16.0 | 20.0 | 9.0 | 12.0 | 0.5 | 4.5 | ..... | 62.0 |
| Thornville | ..... | 1.0 | 5.5 | 24.0 | 27.0 | 15.0 | 2.0 | T. | T. | 74.5 |
| Woodlawn | ..... | T. | 5.5 | 30.0 | 25.5 | 17.0 | 3.0 | T. | T. | 81.0 |
| *Minnesota.* | | | | | | | | | | |
| Albert Lea | ..... | T. | 19.0 | 15.0 | 20.0 | 1.0 | ..... | 7.0 | ..... | 62.0 |
| Alexandria | ..... | T. | 3.2 | 15.0 | 8.2 | 10.7 | ..... | 5.1 | ..... | 42.2 |
| Bird Island | ..... | T. | 5.1 | 8.2 | 4.7 | 4.5 | T. | 5.0 | ..... | 27.5 |
| Caledonia | ..... | T. | 11.6 | 13.2 | (*) | 1.0 | ..... | 11.0 | ..... | ..... |
| Collegeville | ..... | T. | 4.2 | 19.0 | 4.8 | 3.5 | ..... | 3.0 | ..... | 34.5 |
| Crookston | ..... | 0.5 | 13.0 | 14.0 | 1.2 | 4.5 | ..... | T. | ..... | 33.2 |
| Duluth | ..... | 2.0 | 8.5 | 4.2 | 7.8 | 12.3 | 3.1 | 4.7 | T. | 42.6 |
| Detroit | ..... | 1.0 | 12.0 | 8.0 | 5.0 | (*) | 2.0 | 2.0 | ..... | ..... |
| Farmington | ..... | T. | 9.0 | 12.0 | 8.0 | 1.0 | T. | 3.0 | ..... | 33.0 |

MONTHLY AND SEASONAL SNOWFALL, 1909–1910—Continued.

| State and station. | 1909 | | | | 1910 | | | | | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | |
| *Minnesota*—Continued. | | | | | | | | | | |
| Fergus Falls | ..... | 0.5 | 9.0 | 13.2 | 9.2 | 8.5 | 0.3 | 7.3 | ..... | 48.0 |
| Grand Meadow | ..... | 0.5 | 12.0 | 22.0 | 24.0 | 1.7 | T. | 4.5 | T. | 64.7 |
| Hallock | ..... | T. | 1.5 | 11.2 | 1.0 | 3.7 | 7.0 | 6.0 | ..... | 30.4 |
| Long Prairie | ..... | (*) | 3.0 | (*) | 10.0 | 10.2 | T. | (*) | ..... | ..... |
| Minneapolis | ..... | T. | 11.0 | 19.2 | 14.1 | 6.1 | 0.9 | 4.9 | ..... | 56.2 |
| Montevideo | ..... | T. | 6.1 | 16.1 | 9.9 | 7.7 | T. | 6.0 | ..... | 45.8 |
| Moorhead | ..... | 0.6 | 15.6 | 14.4 | 5.9 | 6.2 | 0.1 | 7.7 | ..... | 50.5 |
| Morris | ..... | T. | 8.0 | 9.0 | 7.5 | 3.0 | 2.0 | 8.0 | ..... | 37.5 |
| Mount Iron | ..... | 13.2 | 12.0 | 13.0 | 4.5 | 8.6 | 0.5 | 3.5 | T. | 55.3 |
| New Ulm | ..... | T. | 11.9 | 21.5 | 26.0 | 2.0 | T. | 5.2 | ..... | 66.6 |
| Park Rapids | ..... | 0.6 | 10.2 | 10.5 | 5.8 | 4.7 | 0.2 | 7.2 | T. | 39.2 |
| Pokegama Falls | ..... | 0.3 | 9.3 | 12.0 | 2.9 | 3.6 | 1.0 | 0.5 | ..... | 32.3 |
| Reeds Landing | ..... | T. | 7.0 | 7.3 | 17.2 | 2.0 | 0.3 | 4.0 | ..... | 37.8 |
| St. Paul | ..... | 0.6 | 9.7 | 14.5 | 12.4 | 4.5 | 0.6 | 4.5 | ..... | 46.8 |
| Sandy Lake Dam | ..... | (*) | 4.2 | 15.0 | 8.1 | 17.8 | (*) | (*) | (*) | ..... |
| Winnibigoshish | ..... | 0.5 | 14.2 | 13.7 | 4.5 | 6.8 | T. | 4.5 | ..... | 44.2 |
| *Mississippi.* | | | | | | | | | | |
| Aberdeen | ..... | ..... | ..... | 3.0 | ..... | 3.0 | ..... | T. | ..... | 6.0 |
| Austin | ..... | ..... | ..... | 3.0 | 4.0 | 6.0 | ..... | T. | ..... | 13.0 |
| Biloxi | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Brookhaven | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Corinth | ..... | ..... | ..... | 3.0 | T. | 4.2 | ..... | T. | ..... | 7.2 |
| Greenville | ..... | ..... | ..... | 6.0 | 0.5 | 4.0 | ..... | ..... | ..... | 10.5 |
| Greenwood | ..... | ..... | ..... | 2.5 | 0.5 | 2.0 | ..... | 0.5 | ..... | 5.5 |
| Hattiesburg | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Holly Springs | ..... | ..... | ..... | 3.5 | 2.0 | 8.0 | ..... | 2.0 | ..... | 15.5 |
| Kosciusko | ..... | ..... | ..... | 1.5 | ..... | 1.8 | ..... | T. | ..... | 3.3 |
| Lake | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | ..... | T. |
| Magnolia | ..... | ..... | ..... | ..... | T. | T. | ..... | T. | ..... | T. |
| Meridian | ..... | ..... | ..... | ..... | T. | T. | ..... | T. | ..... | T. |
| Natchez | ..... | ..... | ..... | 0.2 | T. | ..... | ..... | ..... | ..... | 0.2 |
| Pontotoc | ..... | ..... | ..... | 6.0 | 2.5 | 4.0 | ..... | 2.0 | ..... | 14.5 |
| Vicksburg | ..... | ..... | ..... | ..... | T. | 0.2 | ..... | ..... | ..... | 0.2 |
| Water Valley | ..... | ..... | ..... | 5.0 | 1.0 | 7.5 | ..... | T. | ..... | 13.5 |
| *Missouri.* | | | | | | | | | | |
| Birch Tree | ..... | ..... | ..... | 2.0 | ..... | 11.5 | ..... | T. | ..... | 13.5 |
| Brunswick | ..... | ..... | ..... | 7.5 | 6.0 | 1.8 | ..... | 0.5 | ..... | 15.8 |
| Caruthersville | ..... | ..... | ..... | 0.5 | 10.0 | 4.5 | ..... | T. | ..... | 15.0 |
| Columbia | ..... | T. | T. | 8.7 | 3.5 | 7.4 | T. | T. | ..... | 19.6 |
| Conception | ..... | T. | T. | 7.5 | 7.0 | 1.5 | T. | 0.5 | T. | 16.5 |
| Fairport | ..... | T. | 0.5 | 9.1 | 11.7 | 0.7 | ..... | 0.7 | ..... | 22.7 |
| Fayette | ..... | ..... | ..... | 10.0 | 3.0 | 4.0 | 0.5 | 1.5 | ..... | 19.0 |
| Hannibal | ..... | T. | T. | 12.8 | 3.4 | 1.7 | ..... | 2.0 | ..... | 19.9 |
| Harrisonville | ..... | ..... | ..... | 11.0 | 4.0 | 2.5 | 1.0 | 2.5 | ..... | 21.0 |
| Houston | ..... | ..... | ..... | 6.0 | T. | 21.0 | 2.0 | 4.0 | ..... | 33.0 |
| Ironton | ..... | T. | ..... | 7.0 | 0.5 | 13.0 | T. | 2.5 | ..... | 23.0 |
| Kansas City | ..... | T. | T. | 8.9 | 6.1 | 1.5 | T. | 0.1 | ..... | 16.6 |
| Lamar | ..... | ..... | ..... | 4.5 | T. | 11.5 | T. | T. | ..... | 16.0 |
| Lebanon | ..... | ..... | ..... | 3.2 | T. | 16.0 | 1.0 | 2.0 | ..... | 22.0 |
| Marble Hill | ..... | ..... | ..... | 7.0 | 4.5 | 9.8 | ..... | T. | ..... | 21.3 |
| Mexico | ..... | T. | T. | 10.6 | 8.0 | 5.0 | 0.3 | 4.5 | ..... | 28.4 |
| Neosho | ..... | ..... | ..... | 3.5 | T. | 23.0 | ..... | T. | ..... | 26.5 |
| Oakfield | ..... | ..... | ..... | 11.0 | 3.5 | 21.5 | T. | 4.0 | ..... | 40.0 |
| St. Louis | ..... | T. | ..... | 9.1 | 1.0 | 21.3 | ..... | 2.3 | ..... | 33.7 |
| Springfield | ..... | ..... | ..... | 3.7 | 0.6 | 15.9 | 1.6 | 1.5 | ..... | 23.3 |
| Sublett | ..... | ..... | ..... | 9.2 | 4.5 | 2.0 | ..... | 1.0 | ..... | 16.7 |
| Unionville | ..... | ..... | ..... | 9.2 | 7.5 | 4.0 | T. | 3.0 | ..... | 18.7 |
| Warsaw | ..... | ..... | T. | 10.0 | 3.5 | 16.0 | T. | T. | ..... | 29.5 |
| *Montana.* | | | | | | | | | | |
| Adams | ..... | ..... | 5.0 | 5.5 | 1.2 | 11.0 | T. | 1.1 | 1.0 | 24.8 |
| Adel | ..... | ..... | 4.0 | 24.5 | 13.0 | 21.5 | 2.0 | 19.5 | 20.0 | 104.5 |
| Agricultural College | 1.0 | ..... | (*) | (*) | 9.0 | 16.2 | 2.5 | 7.0 | ..... | ..... |
| Augusta | ..... | ..... | 5.0 | 5.9 | 2.0 | 7.7 | ..... | T. | ..... | 20.6 |
| Babb | ..... | T. | 6.5 | 12.0 | 7.0 | 11.5 | 4.5 | 0.8 | 8.7 | 51.0 |

MONTHLY AND SEASONAL SNOWFALL, 1909–1910—Continued.

| State and station. | 1909 | | | | 1910 | | | | | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | |
| *Montana*—Continued. | | | | | | | | | | |
| Bald Butte | ..... | 3.0 | 14.8 | 21.9 | 14.7 | 35.8 | 5.2 | 4.0 | 11.6 | 111.0 |
| Broadview Experiment Station | ..... | ..... | 7.0 | 15.0 | 12.0 | 13.0 | 0.1 | 0.1 | ..... | 47.2 |
| Busteed | ..... | T. | 14.3 | 16.5 | 14.9 | 11.3 | T. | T. | T. | 57.0 |
| Butte | ..... | ..... | 11.5 | 12.0 | 7.0 | 9.5 | (*) | 1.0 | 3.5 | ..... |
| Copper | T. | 2.0 | 13.5 | 14.0 | 13.5 | 19.0 | 2.0 | 4.0 | 4.0 | 72.0 |
| Crow Agency | ..... | ..... | 12.5 | 18.5 | 10.2 | 4.4 | ..... | (*) | (*) | ..... |
| Delpine | T. | 1.3 | 16.8 | 8.4 | 10.2 | 15.2 | 0.6 | 3.5 | 0.5 | 56.5 |
| Dillon | T. | T. | 4.7 | 9.8 | 11.7 | 16.8 | 2.0 | T. | T. | 45.0 |
| Ekaiaka | ..... | 0.5 | 5.0 | 14.5 | 24.0 | 5.0 | ..... | ..... | T. | 49.0 |
| Fortine | ..... | T. | 2.5 | 16.0 | 14.8 | 22.0 | 2.0 | T. | (*) | ..... |
| Glendive | ..... | ..... | 5.0 | 2.6 | (*) | 9.0 | ..... | T. | ..... | ..... |
| Grayling | 2.0 | T. | 6.0 | 20.0 | 43.0 | 7.0 | 2.3 | 1.0 | (*) | ..... |
| Great Falls | ..... | ..... | 9.2 | 8.0 | 3.9 | 11.3 | 1.8 | T. | T. | 34.2 |
| Havre | ..... | 0.1 | 9.5 | 5.6 | 3.4 | 7.9 | 3.0 | ..... | ..... | 29.5 |
| Helena | ..... | T. | 2.9 | 6.8 | 12.8 | 19.3 | 0.1 | 0.4 | 4.2 | 46.5 |
| Jones Canyon | 15.5 | ..... | 41.0 | 37.5 | 25.0 | 48.5 | 7.0 | 24.0 | (*) | ..... |
| Kalispell | ..... | T. | 4.1 | 9.1 | 8.8 | 19.1 | 4.1 | 2.1 | ..... | 47.3 |
| Lonetree | ..... | ..... | 6.0 | 9.5 | 3.0 | 19.0 | ..... | 5.0 | T. | 42.5 |
| Malta | ..... | ..... | 6.2 | 5.3 | 1.2 | 7.5 | T. | T. | ..... | 20.2 |
| Miles City | ..... | ..... | 5.8 | 4.5 | 9.3 | 7.6 | 5.2 | 0.4 | 3.0 | 35.8 |
| Moore | ..... | ..... | 9.0 | 15.0 | 9.0 | 14.0 | T. | 9.0 | 4.0 | 60.0 |
| Norris | T. | ..... | 7.0 | 22.7 | 18.0 | 8.1 | 1.1 | 4.2 | 1.9 | 63.0 |
| Nye | ..... | 1.2 | 15.2 | 12.6 | 18.2 | 7.2 | 3.0 | 7.2 | 24.0 | 88.6 |
| Ovando | ..... | (*) | (*) | (*) | 20.2 | 57.4 | 5.0 | (*) | ..... | ..... |
| Philipsburg | T. | 1.0 | 6.3 | 4.3 | 9.5 | 24.7 | T. | 2.0 | 2.0 | 49.8 |
| Poplar | ..... | ..... | 6.0 | 3.7 | 2.5 | 3.2 | ..... | ..... | ..... | 15.4 |
| Red Lodge | ..... | 3.0 | 6.6 | 19.5 | 7.5 | 8.9 | 2.5 | 3.0 | 10.0 | 61.0 |
| St. Ignatius | ..... | ..... | 2.0 | 6.2 | 4.2 | 20.6 | T. | 0.5 | 0.2 | 33.7 |
| St. Regis | ..... | ..... | 3.6 | 3.3 | 11.4 | 38.7 | ..... | ..... | ..... | 57.0 |
| Saltese | ..... | ..... | 3.0 | 21.0 | 50.0 | 72.5 | 14.0 | 5.0 | ..... | 165.5 |
| Springbrook | ..... | T. | 5.7 | 12.9 | 10.6 | 26.0 | 6.0 | 6.0 | (*) | ..... |
| Trail Creek | 3.7 | 3.0 | 17.0 | 28.1 | 18.9 | 26.2 | 5.1 | 6.8 | 5.1 | 113.9 |
| Troy | ..... | T. | 13.5 | 9.0 | 21.5 | 45.0 | ..... | T. | ..... | 89.0 |
| Utica | ..... | 0.5 | 7.5 | 18.0 | 12.0 | 14.0 | ..... | 3.2 | (*) | ..... |
| *Nebraska.* | | | | | | | | | | |
| Alliance | ..... | 0.5 | 14.0 | (*) | (*) | T. | (*) | (*) | (*) | ..... |
| Ashland | ..... | T. | 7.5 | 19.5 | 14.0 | 3.6 | 0.5 | 0.5 | ..... | 45.6 |
| Auburn | ..... | T. | 4.0 | 10.5 | 8.0 | 2.0 | T. | ..... | ..... | 24.5 |
| Beatrice | ..... | T. | (*) | 19.0 | 9.0 | 2.0 | ..... | ..... | ..... | ..... |
| Beaver City | ..... | ..... | 10.0 | 6.0 | 2.0 | (*) | ..... | ..... | ..... | ..... |
| Callaway | ..... | ..... | 17.0 | 14.0 | 4.0 | ..... | 3.0 | T. | ..... | 38.0 |
| Culbertson | ..... | ..... | 13.5 | 12.0 | 3.5 | 0.5 | ..... | ..... | ..... | 29.5 |
| David City | ..... | T. | 12.5 | 21.2 | 6.8 | 5.0 | 1.5 | 1.5 | ..... | 48.5 |
| Dawson | ..... | T. | 1.5 | 13.0 | 7.0 | T. | ..... | T. | ..... | 21.5 |
| Ewing | ..... | T. | 12.5 | 20.0 | 11.0 | 1.0 | 1.5 | T. | T. | 46.0 |
| Geneva | ..... | T. | 5.0 | 16.0 | 9.0 | 3.0 | 0.5 | 0.5 | T. | 34.0 |
| Genoa | ..... | T. | 13.0 | 10.0 | 7.0 | 1.5 | 3.0 | 0.4 | ..... | 34.9 |
| Hartington | ..... | ..... | 15.5 | 7.5 | 7.0 | 1.5 | ..... | 3.0 | ..... | 34.5 |
| Hay Springs | ..... | T. | 18.0 | 12.0 | 11.0 | 0.5 | 7.0 | 2.0 | T. | 50.5 |
| Hillside | ..... | T. | 12.0 | 14.5 | 3.0 | T. | 2.0 | T. | 2.0 | 33.5 |
| Kearney | ..... | ..... | 12.2 | 10.2 | 7.0 | T. | 0.5 | ..... | T. | 29.9 |
| Kimball | ..... | 0.2 | 4.5 | 9.0 | 0.5 | 3.5 | 6.0 | 4.0 | T. | 27.7 |
| Kirkwood | ..... | T. | 19.0 | 19.0 | 9.5 | 2.5 | 4.0 | 0.5 | T. | 54.5 |
| Lincoln | ..... | T. | 5.9 | 19.9 | 10.3 | 2.7 | 1.0 | 0.3 | ..... | 40.1 |
| Norfolk | ..... | ..... | 13.0 | 14.0 | 5.5 | 3.0 | T. | 3.2 | ..... | 38.7 |
| North Loup | ..... | T. | 14.0 | 9.2 | 7.0 | T. | 6.0 | T. | T. | 36.2 |
| North Platte | ..... | 0.1 | 17.9 | 11.9 | 3.9 | 0.3 | 2.2 | ..... | 1.0 | 37.3 |
| Omaha | ..... | T. | 5.2 | 19.1 | 6.9 | 3.0 | T. | 2.1 | ..... | 36.3 |
| Purdum | ..... | ..... | 19.0 | 14.1 | 9.0 | T. | 6.4 | T. | 2.5 | 51.0 |
| Redcloud | ..... | T. | 4.5 | 17.0 | 5.0 | 1.2 | T. | T. | ..... | 27.7 |
| Valentine | ..... | T. | 16.4 | 7.1 | 18.0 | 2.7 | 6.2 | 0.6 | 0.5 | 51.5 |
| Westpoint | ..... | T. | 10.0 | 16.0 | 2.0 | 4.0 | ..... | 3.0 | ..... | 35.0 |
| *Nevada.* | | | | | | | | | | |
| Cherry Creek | ..... | 1.9 | 7.8 | 10.2 | 3.8 | 7.7 | 1.3 | T. | ..... | 32.7 |
| Clover Valley | ..... | ..... | 5.0 | 18.0 | 16.0 | 12.0 | T. | ..... | 11.0 | 62.0 |
| Elko | ..... | T. | (*) | (*) | 15.2 | 9.0 | T. | ..... | ..... | ..... |
| Eureka | ..... | 1.0 | 30.0 | 15.0 | 16.5 | 8.0 | 6.5 | T. | 9.0 | 86.0 |
| Gardnerville | ..... | 0.5 | 12.1 | 24.0 | 31.0 | 10.0 | 2.0 | ..... | ..... | 79.6 |

MONTHLY AND SEASONAL SNOWFALL, 1909–1910—Continued

| State and station | 1909 | | | | 1910 | | | | | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | |
| *Nevada*—Continued. | | | | | | | | | | |
| Glenbrook | ..... | 2.0 | 10.0 | 32.5 | 72.5 | 19.5 | 2.0 | ..... | ..... | 138.5 |
| Golconda | ..... | ..... | 5.0 | 3.0 | 5.1 | 2.5 | ..... | ..... | ..... | 15.6 |
| Halleck | ..... | ..... | (*) | 9.0 | 13.0 | 5.0 | ..... | 0.5 | 6.0 | ..... |
| Lewers Ranch | ..... | 1.0 | 13.0 | 21.0 | 34.0 | 13.0 | 1.0 | ..... | T. | 83.0 |
| Lovelock | ..... | ..... | (*) | 1.5 | (*) | (*) | ..... | ..... | ..... | ..... |
| Lundy, Cal | (*) | (*) | 35.5 | 96.0 | 48.0 | 17.0 | 4.0 | 10.0 | 2.0 | ..... |
| Mount Rose Ranch | ..... | 1.0 | 16.9 | 25.7 | 26.2 | 5.9 | 9.0 | ..... | ..... | 84.7 |
| Potts | ..... | ..... | 12.0 | 7.0 | 3.5 | 5.0 | ..... | ..... | 12.0 | 39.5 |
| Reno | ..... | T. | 12.3 | 2.3 | 12.9 | 2.1 | 0.2 | ..... | T. | 29.8 |
| Tahoe, Cal | (*) | 4.5 | 26.3 | 42.0 | 74.5 | 40.0 | 1.2 | T. | 0.2 | ..... |
| Tecoma | ..... | ..... | 21.0 | 8.5 | 4.0 | 5.0 | ..... | ..... | T. | 38.5 |
| Tonopah | ..... | ..... | 23.0 | 3.4 | 7.9 | 1.5 | T. | T. | 2.0 | 37.8 |
| Winnemucca | ..... | 0.2 | 5.6 | 6.1 | 9.2 | 9.4 | 0.3 | ..... | T. | 30.8 |
| *New Hampshire.* | | | | | | | | | | |
| Bethlehem | ..... | 5.5 | 10.0 | 10.5 | 16.5 | 19.5 | 6.5 | 6.0 | 0.3 | 74.8 |
| Brookline | ..... | ..... | 2.3 | 20.5 | 16.6 | 32.5 | T. | T. | ..... | 71.9 |
| Concord | ..... | ..... | 3.1 | 8.5 | 9.1 | 28.3 | 1.4 | T. | ..... | 50.4 |
| Grafton | ..... | T. | 4.0 | 16.0 | 16.0 | 33.0 | 2.0 | T. | ..... | 71.0 |
| *New Jersey.* | | | | | | | | | | |
| Asbury Park | ..... | ..... | 2.0 | 2.0 | 4.5 | 2.0 | 1.0 | T. | ..... | 11.5 |
| Atlantic City | ..... | ..... | ..... | 3.0 | 0.5 | 3.7 | 2.7 | ..... | ..... | 9.9 |
| Bayonne | ..... | T. | 0.5 | 11.5 | 17.7 | 4.5 | 1.2 | ..... | ..... | 35.4 |
| Belvidere | ..... | ..... | 2.0 | 16.5 | 21.0 | 7.5 | 1.0 | ..... | ..... | 48.0 |
| Bridgeton | ..... | ..... | 1.0 | 15.0 | 6.0 | 4.0 | 0.5 | ..... | ..... | 26.5 |
| Cape May | ..... | ..... | T. | 6.6 | 0.3 | 1.3 | 5.0 | ..... | ..... | 13.2 |
| Dover | ..... | T. | 7.5 | 18.0 | 20.5 | 12.5 | 1.0 | ..... | ..... | 59.5 |
| Hammonton | ..... | ..... | 2.0 | 14.7 | 3.7 | 3.1 | T. | ..... | ..... | 23.5 |
| Imlaystown | ..... | ..... | 1.4 | 12.5 | 9.4 | 3.0 | 0.6 | ..... | ..... | 26.9 |
| Lambertville | ..... | ..... | 2.0 | 19.0 | 19.5 | 6.5 | 0.5 | ..... | ..... | 47.5 |
| Moorestown | ..... | ..... | T. | 12.6 | 10.6 | 3.3 | 0.1 | ..... | ..... | 26.6 |
| New Brunswick | ..... | ..... | 2.0 | 14.0 | [1] 18.0 | 6.0 | 1.0 | ..... | ..... | 41.0 |
| Paterson | ..... | ..... | 1.3 | 15.2 | 16.1 | 6.0 | 1.7 | ..... | ..... | 40.3 |
| Sussex | ..... | ..... | 4.0 | 17.0 | 22.5 | 15.0 | T. | ..... | ..... | 58.5 |
| *New Mexico.* | | | | | | | | | | |
| Agricultural College | ..... | ..... | ..... | 3.0 | ..... | ..... | ..... | ..... | ..... | 3.0 |
| Alamagordo (near) | ..... | ..... | T. | 6.0 | T. | ..... | ..... | T. | ..... | 6.0 |
| Albert | ..... | ..... | 13.0 | 6.0 | ..... | 3.0 | ..... | T. | ..... | 22.0 |
| Bateman's Ranch | (*) | 2.0 | 6.9 | 17.0 | 8.5 | 16.0 | 6.5 | T. | T. | ..... |
| Bell Ranch | ..... | ..... | 4.0 | 1.0 | 0.5 | 2.0 | ..... | 0.2 | ..... | 7.7 |
| Blackrock | ..... | ..... | 1.8 | 10.4 | 3.5 | 4.0 | 2.5 | 0.2 | ..... | 22.4 |
| Bloomfield | ..... | ..... | 2.0 | 11.7 | 0.9 | 3.8 | ..... | T. | ..... | 18.4 |
| Carlsbad | ..... | ..... | 1.6 | 3.0 | 0.2 | ..... | ..... | ..... | ..... | 4.8 |
| Chama | ..... | 9.0 | 12.5 | 43.0 | 28.0 | 45.0 | 16.5 | (*) | 3.0 | ..... |
| Cimarron | ..... | 1.0 | 9.0 | 15.0 | 2.0 | 4.0 | 1.2 | 1.2 | ..... | 33.4 |
| Deming | ..... | ..... | ..... | 7.0 | ..... | ..... | ..... | ..... | ..... | 7.0 |
| Elizabethtown | T. | 9.0 | 18.5 | 11.0 | 6.0 | 11.0 | 4.3 | 3.0 | ..... | 62.8 |
| Fort Bayard | ..... | ..... | 0.5 | 13.5 | 1.5 | T. | T. | T. | ..... | 15.5 |
| Fort Stanton | ..... | ..... | T. | 4.0 | T. | 4.0 | 4.0 | T. | ..... | 12.0 |
| Fort Union | ..... | 4.0 | 3.0 | 2.5 | 3.0 | 1.0 | T. | 3.0 | ..... | 16.5 |
| Fort Wingate | ..... | ..... | 1.3 | 9.5 | 1.8 | 2.7 | 7.2 | 4.0 | ..... | 26.5 |
| Fruitland | ..... | ..... | 0.5 | 9.5 | 3.5 | 2.5 | ..... | T. | ..... | 16.0 |
| Harvey's Upper Ranch | ..... | 14.2 | 21.0 | 29.0 | 17.2 | 26.0 | 15.5 | 27.8 | 8.2 | 158.9 |
| Hopewell | 1.0 | 4.1 | 17.3 | 28.0 | 21.0 | 19.0 | 10.2 | 7.7 | 4.0 | 112.3 |
| Las Vegas | ..... | 1.5 | 2.1 | 4.7 | 1.5 | 3.2 | 3.2 | 2.0 | ..... | 18.2 |
| Lordsburg | ..... | ..... | ..... | 4.0 | 1.0 | ..... | ..... | ..... | ..... | 5.0 |
| Los Lunas | ..... | ..... | ..... | 8.0 | 0.5 | 1.0 | ..... | ..... | ..... | 9.5 |
| Luna | ..... | ..... | 2.0 | 15.0 | 1.5 | 1.0 | T. | (*) | (*) | ..... |
| Magdalena | ..... | ..... | 1.5 | 14.2 | 6.0 | 1.0 | 1.5 | T. | ..... | 24.2 |
| Melrose | ..... | ..... | 4.0 | 4.0 | T. | T. | ..... | ..... | ..... | 8.0 |
| Mountainair | ..... | T. | T. | 19.0 | 3.0 | 16.0 | ..... | T. | ..... | 38.0 |
| Mara Visa | ..... | ..... | 9.0 | 9.0 | 1.0 | 3.0 | ..... | T. | ..... | 22.0 |
| Raton | ..... | 1.0 | 9.0 | 19.0 | 3.0 | 3.5 | 3.0 | 8.3 | 1.5 | 48.3 |
| Red River | ..... | 8.0 | 30.0 | 32.0 | 36.0 | 26.0 | 18.0 | 18.0 | T. | 168.0 |
| Rincon | ..... | ..... | ..... | 4.5 | T. | ..... | ..... | ..... | ..... | 4.5 |

[1] College Farm, N.J., record.

MONTHLY AND SEASONAL SNOWFALL, 1909–1910—Continued.

| State and station. | 1909 | | | | 1910 | | | | | Annual |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | |
| *New Mexico*—Continued. | | | | | | | | | | |
| Rio Grande Dam | ..... | ..... | T. | 2.6 | T. | T. | ..... | ..... | ..... | 2.6 |
| Rociada | ..... | 8.0 | 13.0 | 14.0 | 8.0 | 13.0 | 6.0 | 17.0 | ..... | 79.0 |
| Rosedale | ..... | T. | 2.0 | 14.6 | 1.0 | 1.3 | 4.9 | T. | ..... | 23.8 |
| Roswell | ..... | ..... | T. | 2.9 | 0.7 | 1.1 | ..... | ..... | ..... | 4.7 |
| San Rafael | ..... | ..... | 4.0 | 8.5 | ..... | 5.0 | 2.0 | 3.0 | ..... | 22.5 |
| Santa Fe | ..... | 1.0 | 13.7 | 5.6 | 2.4 | 1.0 | T. | 0.5 | ..... | 24.2 |
| Santa Rosa | ..... | T. | 2.5 | 5.0 | 1.0 | T. | ..... | T. | ..... | 8.5 |
| Socorro | ..... | ..... | ..... | 6.3 | ..... | T. | ..... | ..... | ..... | 6.3 |
| Stanley | ..... | ..... | 3.5 | 4.2 | 2.0 | 2.0 | 2.3 | ..... | ..... | 14.0 |
| Taos | ..... | T. | 6.0 | 8.5 | 6.0 | 13.0 | T. | 2.0 | ..... | 35.5 |
| Tucumcari | ..... | ..... | 13.0 | 2.5 | 0.5 | 0.5 | ..... | 3.0 | ..... | 19.5 |
| Vermejo Park | ..... | T. | 16.0 | 5.0 | 5.5 | 4.0 | 1.5 | 7.5 | T. | 39.5 |
| Wagon Mound | ..... | 2.5 | 6.0 | 9.5 | T. | 1.0 | 2.0 | 1.0 | ..... | 22.0 |
| Winsor's | ..... | (*) | 10.5 | 20.0 | 8.0 | 13.0 | (*) | (*) | (*) | ..... |
| *New York.* | | | | | | | | | | |
| Adams Center | ..... | 3.0 | 8.5 | 94.0 | 65.5 | 85.0 | 15.0 | 2.0 | T. | 273.0 |
| Albany | ..... | T. | 0.4 | 15.5 | 14.0 | 25.1 | 0.1 | T. | ..... | 55.1 |
| Ballston Lake | ..... | T. | 4.9 | 18.3 | 23.6 | 31.2 | 0.4 | 1.1 | ..... | 79.5 |
| Bedford | ..... | ..... | 1.5 | 8.0 | 19.0 | 8.5 | 1.5 | (*) | ..... | ..... |
| Binghamton | ..... | ..... | 3.2 | 6.9 | 30.6 | 17.1 | 0.4 | 0.2 | ..... | 58.4 |
| Bolivar | ..... | 0.2 | 1.2 | 8.8 | 20.2 | 27.2 | 1.5 | 1.0 | ..... | 60.1 |
| Bouckville | ..... | T. | 7.0 | 17.5 | 29.0 | 25.5 | 4.0 | 1.0 | ..... | 84.0 |
| Buffalo | ..... | 6.0 | 4.6 | 25.9 | 42.6 | 43.7 | 3.2 | 0.2 | ..... | 126.2 |
| Canton | ..... | T. | 7.7 | 6.8 | 14.4 | 17.1 | 5.5 | 0.7 | ..... | 52.2 |
| Carmel | ..... | ..... | 2.0 | 13.0 | 17.0 | 15.0 | 1.0 | ..... | ..... | 48.0 |
| Cooperstown | ..... | ..... | 3.0 | 14.0 | 33.5 | 41.0 | 0.5 | 1.5 | ..... | 93.5 |
| Franklinville | ..... | 1.0 | 3.4 | 16.2 | 26.6 | 26.8 | 2.5 | 1.0 | ..... | 77.5 |
| Glens Falls | ..... | T. | 3.0 | 16.3 | 25.5 | 34.5 | T. | 2.0 | ..... | 81.3 |
| Gloversville | ..... | T. | 7.5 | 23.5 | 31.5 | 53.0 | 2.5 | 3.5 | ..... | 121.5 |
| Ithaca | ..... | T. | 4.2 | 10.3 | 22.8 | 21.2 | 1.0 | 1.1 | ..... | 60.6 |
| Jeffersonville | ..... | T. | 1.0 | 10.0 | 18.0 | 14.0 | T. | T. | ..... | 43.0 |
| Little Falls | ..... | 1.5 | 9.0 | 13.5 | 29.5 | 41.0 | T. | T. | ..... | 94.5 |
| Lockport | ..... | 1.5 | 6.0 | 10.4 | 16.8 | 35.2 | 0.2 | T. | ..... | 70.1 |
| Moira | ..... | T. | 5.0 | 10.0 | 21.0 | 37.5 | 4.0 | 1.5 | (*) | ..... |
| Morehouseville | ..... | 1.0 | 6.0 | 29.5 | 25.0 | 50.0 | 2.5 | 1.0 | ..... | 115.0 |
| Nehasane | ..... | T. | 12.8 | 66.0 | 39.0 | 57.8 | 9.5 | 2.0 | (*) | ..... |
| New Lisbon | ..... | T. | 8.0 | 11.0 | 27.0 | 24.0 | 2.0 | 1.0 | ..... | 73.0 |
| New York | ..... | ..... | 1.0 | 11.4 | 16.6 | 5.3 | 0.4 | ..... | ..... | 34.7 |
| North Creek | ..... | ..... | 4.0 | 20.2 | 22.5 | 33.5 | 0.5 | (*) | ..... | ..... |
| Ogdensburg | ..... | T. | 2.4 | 1.6 | 6.7 | 11.1 | 12.0 | 5.0 | ..... | 38.8 |
| Oswego | ..... | T. | 6.6 | 42.1 | 27.1 | 39.6 | 4.3 | 1.0 | ..... | 120.7 |
| Oxford | ..... | ..... | 8.5 | 15.7 | 32.0 | 34.0 | 1.5 | (*) | ..... | ..... |
| Perry City | ..... | T. | 5.6 | 12.4 | 19.2 | 39.3 | 2.8 | 3.5 | ..... | 82.8 |
| Rochester | ..... | T. | 1.7 | 14.6 | 21.9 | 43.0 | 3.4 | 0.5 | ..... | 85.1 |
| Setauket | ..... | ..... | T. | 4.5 | 14.0 | 3.0 | 2.0 | T. | ..... | 23.5 |
| Syracuse | ..... | 0.3 | 4.8 | 17.1 | 23.8 | 36.7 | 4.8 | 0.3 | T. | 87.8 |
| Ticonderoga | ..... | ..... | 2.0 | 9.5 | 10.0 | 27.0 | ..... | T. | ..... | 48.5 |
| Waverly | ..... | ..... | 1.0 | 6.1 | 20.5 | 18.3 | 0.2 | 0.2 | ..... | 46.3 |
| *North Carolina.* | | | | | | | | | | |
| Andrews | ..... | ..... | ..... | 4.5 | 3.1 | 1.0 | ..... | T. | ..... | 8.6 |
| Asheville | ..... | T. | T. | 0.6 | 2.5 | 4.6 | ..... | T. | ..... | 7.7 |
| Banners Elk | ..... | 2.0 | ..... | 17.0 | 14.0 | 14.6 | T. | 0.5 | ..... | 48.1 |
| Charlotte | ..... | ..... | ..... | 0.2 | 3.0 | 0.2 | ..... | ..... | ..... | 3.4 |
| Hatteras | ..... | ..... | ..... | T. | ..... | 0.4 | T. | ..... | ..... | 0.4 |
| Henderson | ..... | ..... | ..... | 1.3 | 0.8 | 0.5 | ..... | ..... | ..... | 2.6 |
| Lumberton | ..... | ..... | ..... | T. | T. | 0.5 | ..... | ..... | ..... | 0.5 |
| Marion | ..... | ..... | ..... | 1.0 | 3.5 | 9.3 | ..... | T. | ..... | 13.8 |
| Mount Airy | ..... | ..... | ..... | 3.0 | 3.0 | 7.4 | ..... | ..... | ..... | 13.4 |
| Raleigh | ..... | ..... | ..... | T. | 0.7 | T. | ..... | ..... | ..... | 0.7 |
| Reidsville | ..... | ..... | ..... | 1.5 | 7.5 | 5.0 | 1.5 | ..... | ..... | 15.5 |
| Settle | ..... | ..... | ..... | 3.6 | 3.0 | 4.5 | ..... | ..... | ..... | 11.1 |
| Sloan | ..... | ..... | ..... | T. | T. | ..... | ..... | ..... | ..... | T. |
| Southern Pines | ..... | ..... | ..... | T. | 2.2 | T. | ..... | ..... | ..... | 2.2 |
| Statesville | ..... | ..... | ..... | 4.6 | 3.0 | 4.0 | ..... | ..... | ..... | 11.6 |
| Tarbora | ..... | ..... | ..... | T. | T. | 0.5 | ..... | ..... | ..... | 0.5 |
| Weldon | ..... | ..... | ..... | 0.8 | T. | 1.8 | 0.1 | ..... | ..... | 2.7 |
| Wilmington | ..... | ..... | ..... | T. | ..... | ..... | ..... | ..... | ..... | T. |

MONTHLY AND SEASONAL SNOWFALL, 1909–1910—Continued.

| State and station. | 1909 | | | | 1910 | | | | | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | |
| *North Dakota.* | | | | | | | | | | |
| Amenia | ..... | ..... | T. | 7.5 | 4.0 | 4.0 | ..... | 4.0 | ..... | 19.5 |
| Beach | ..... | ..... | 3.0 | 7.5 | 8.0 | (*) | (*) | ..... | ..... | ..... |
| Berthold Agency | ..... | T. | 3.6 | 10.6 | 1.8 | 2.6 | ..... | ..... | ..... | 18.6 |
| Bismarck | ..... | 1.6 | 7.1 | 15.5 | 6.8 | 12.3 | T. | 0.5 | ..... | 43.8 |
| Bottineau | ..... | ..... | 11.7 | 14.5 | 3.4 | 5.2 | 2.8 | 2.5 | ..... | 40.1 |
| Broncho | ..... | T. | 3.5 | 9.8 | 5.4 | 6.0 | ..... | T. | ..... | 24.7 |
| Buford | ..... | ..... | 2.0 | 4.0 | 1.5 | 2.5 | ..... | (*) | ..... | ..... |
| Coal Harbor | ..... | 1.0 | 1.0 | 6.5 | 1.5 | 5.0 | ..... | 0.5 | ..... | 15.5 |
| Crosby | ..... | 2.0 | 5.0 | 4.5 | 4.0 | 5.5 | T. | T. | 2.0 | 23.0 |
| Devils Lake | ..... | 0.6 | 3.4 | 12.4 | 1.0 | 3.6 | 0.2 | 3.5 | ..... | 24.7 |
| Dickinson | ..... | 0.5 | 2.9 | 6.5 | 4.6 | 8.2 | T. | 3.0 | T. | 25.7 |
| Donnybrook | ..... | 1.0 | 2.0 | 7.5 | 2.0 | 3.0 | ..... | ..... | ..... | 15.5 |
| Dunseith | ..... | T. | 4.0 | 3.0 | T. | 3.5 | T. | (*) | ..... | ..... |
| Edgeley | ..... | 0.8 | 3.4 | 5.4 | (*) | (*) | (*) | T. | ..... | ..... |
| Epping | ..... | 1.5 | 2.8 | 6.1 | 1.8 | 4.2 | ..... | ..... | ..... | 16.4 |
| Forman | ..... | 2.0 | 5.0 | 10.1 | 5.0 | 9.0 | ..... | 6.7 | ..... | 37.8 |
| Fullerton | ..... | 2.0 | 10.0 | 24.2 | 9.6 | 16.1 | 2.0 | 10.1 | (*) | ..... |
| Haley | ..... | ..... | 4.8 | 4.5 | 11.4 | 6.4 | T. | ..... | ..... | 27.1 |
| Hannah | ..... | ..... | 6.0 | 16.0 | 18.0 | 3.0 | T. | 3.0 | 0.4 | 46.4 |
| Hansboro | ..... | T. | 4.2 | 7.6 | 0.6 | 1.8 | T. | 1.2 | T. | 15.4 |
| Howard | ..... | 4.2 | 9.0 | 17.5 | 9.0 | 13.0 | T. | T. | T. | 52.7 |
| Jamestown | ..... | ..... | 6.0 | 10.5 | 4.0 | 4.0 | (*) | 6.0 | ..... | ..... |
| Lakota | ..... | 3.2 | 4.2 | 2.8 | 2.5 | 6.0 | 0.5 | 8.0 | ..... | 27.2 |
| Lamoine | ..... | 2.0 | T. | 15.0 | 3.0 | 4.0 | ..... | ..... | ..... | 24.0 |
| Lisbon | ..... | T. | 6.0 | 10.0 | 6.0 | 8.0 | ..... | 12.2 | ..... | 42.2 |
| McKinney | ..... | T. | 5.0 | 8.0 | 2.0 | 2.0 | ..... | ..... | ..... | 17.0 |
| Manfred | ..... | 3.0 | 2.0 | 17.0 | 2.0 | 4.5 | ..... | 1.5 | ..... | 30.0 |
| Marmarth | ..... | ..... | 5.0 | 8.4 | 10.7 | 8.3 | 0.5 | 1.5 | 0.5 | 34.9 |
| Marstonmoor | ..... | 2.0 | 4.0 | 9.5 | 0.5 | 5.5 | T. | 2.0 | ..... | 23.5 |
| Mayville | ..... | ..... | 5.0 | 13.8 | 0.3 | 7.2 | ..... | 8.0 | ..... | 34.3 |
| Medora | ..... | T. | 3.8 | 9.0 | 8.1 | 15.0 | ..... | T. | T. | 35.9 |
| Melville | ..... | 3.0 | 3.0 | 14.0 | T. | 4.0 | ..... | 10.0 | T. | 34.0 |
| Minot | ..... | 1.0 | 2.2 | 8.8 | 0.5 | 5.3 | ..... | 0.1 | ..... | 17.9 |
| Mott | ..... | 1.0 | 10.0 | 17.5 | 14.0 | 15.0 | ..... | ..... | ..... | 57.5 |
| Napoleon | ..... | 1.0 | 4.0 | 12.5 | 3.5 | 6.0 | ..... | 1.5 | ..... | 28.5 |
| New Salem | ..... | ..... | 5.0 | 16.0 | 2.5 | 10.3 | ..... | (*) | T. | ..... |
| Orange | ..... | ..... | 8.0 | 21.0 | 9.0 | 11.0 | ..... | ..... | ..... | 49.0 |
| University | ..... | T. | 7.5 | 7.5 | 2.0 | 1.3 | T. | 2.0 | ..... | 20.3 |
| Washburn | ..... | ..... | 2.2 | 6.8 | 2.2 | 1.3 | ..... | ..... | ..... | 12.5 |
| Westhope | ..... | 0.9 | 4.6 | 2.0 | (*) | (*) | T. | (*) | ..... | ..... |
| Williston | ..... | 1.2 | 2.0 | 4.6 | 2.7 | 3.4 | ..... | ..... | ..... | 13.9 |
| Willow City | ..... | T. | 3.0 | 11.0 | 0.5 | T. | ..... | T. | ..... | 14.5 |
| Wishek | ..... | T. | 2.0 | 15.0 | 4.0 | 5.5 | 3.0 | 0.5 | ..... | 30.0 |
| *Ohio.* | | | | | | | | | | |
| Akron | ..... | T. | 0.3 | 11.0 | 21.0 | 25.3 | 1.3 | 6.5 | ..... | 65.4 |
| Benton Ridge | ..... | T. | T. | 11.0 | 21.5 | 18.3 | T. | 12.0 | ..... | 62.8 |
| Cadiz | ..... | T. | 0.1 | 19.8 | 31.0 | 25.8 | 0.7 | 6.0 | T. | 83.4 |
| Cincinnati | ..... | ..... | T. | 5.8 | 14.0 | 20.6 | T. | T. | ..... | 40.4 |
| Cleveland | ..... | 0.6 | 0.8 | 16.3 | 28.0 | 30.5 | 2.7 | 2.0 | ..... | 80.9 |
| Columbus | ..... | T. | 0.1 | 11.0 | 24.3 | 29.2 | T. | 3.2 | ..... | 67.8 |
| Dayton | ..... | ..... | 0.1 | 8.7 | 10.0 | 31.6 | T. | T. | ..... | 50.4 |
| Defiance | ..... | T. | T. | 9.4 | 8.9 | 5.6 | T. | T. | ..... | 23.9 |
| Delaware | ..... | T. | T. | 9.4 | 14.8 | 29.7 | T. | 2.7 | ..... | 56.6 |
| Garrettsville | ..... | T. | 3.0 | 14.2 | 30.5 | 32.8 | 2.0 | 8.0 | ..... | 90.5 |
| Gratiot | ..... | T. | 0.5 | 13.7 | 30.0 | 19.9 | 0.2 | 3.0 | ..... | 67.3 |
| Hillsboro | ..... | T. | T. | 8.0 | 16.5 | 25.0 | ..... | T. | ..... | 49.5 |
| Jacksonburg | ..... | ..... | (*) | 12.0 | 10.0 | (*) | (*) | (*) | ..... | ..... |
| McConnelsville | ..... | T. | 0.2 | 11.7 | 20.5 | 20.5 | 0.2 | 2.0 | ..... | 55.1 |
| Marietta | ..... | ..... | T. | 6.0 | 11.0 | 13.4 | ..... | ..... | ..... | 30.4 |
| Marion | ..... | T. | T. | 18.3 | 17.9 | 37.3 | T. | 3.0 | ..... | 76.5 |
| Medina | ..... | T. | 4.0 | 14.0 | 22.0 | 26.0 | 2.0 | 10.0 | ..... | 78.0 |
| Millport | ..... | T. | 0.5 | 10.0 | 28.8 | 19.7 | 0.3 | 3.0 | ..... | 62.3 |
| Napoleon | ..... | T. | T. | 10.5 | 22.0 | 6.7 | T. | 3.0 | ..... | 42.2 |
| New Waterford | ..... | T. | 1.5 | 14.5 | 45.0 | 33.0 | T. | (*) | ..... | ..... |
| Oberlin | ..... | T. | T. | 16.9 | 25.0 | 33.6 | 2.0 | 6.0 | ..... | 83.5 |
| Pomeroy | ..... | (*) | (*) | (*) | 19.0 | 15.5 | T. | T. | ..... | ..... |
| Portsmouth | ..... | T. | T. | 5.0 | 12.0 | 14.8 | T. | ..... | ..... | 31.8 |
| Sandusky | ..... | T. | T. | 13.1 | 28.5 | 18.4 | 0.1 | 5.0 | ..... | 65.1 |

MONTHLY AND SEASONAL SNOWFALL, 1909–1910—Continued.

| State and station. | 1909 | | | | 1910 | | | | | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | |
| *Ohio*—Continued. | | | | | | | | | | |
| Shenandoah | ..... | T. | 0.5 | 6.8 | 17.6 | 15.4 | 0.5 | 9.9 | ..... | 50.7 |
| Sidney | ..... | ..... | T. | 13.2 | 10.9 | 28.7 | T. | 5.5 | ..... | 58.3 |
| Tiffin | ..... | T. | T. | 14.5 | 25.2 | 23.0 | T. | 11.0 | ..... | 73.7 |
| Toledo | ..... | T. | T. | 15.1 | 21.0 | 9.2 | 0.1 | 0.1 | ..... | 45.5 |
| Wauseon | ..... | T. | 0.8 | 18.4 | 22.1 | 9.7 | 0.1 | 1.0 | ..... | 52.1 |
| Waverly | ..... | T. | T. | 10.2 | 21.4 | 17.2 | (*) | (*) | ..... | ..... |
| Wooster | ..... | 0.2 | 0.5 | 9.8 | 24.5 | 28.5 | 1.0 | 9.2 | ..... | 73.7 |
| *Oklahoma.* | | | | | | | | | | |
| Arapaho | ..... | ..... | ..... | 2.3 | 2.0 | 2.0 | ..... | ..... | ..... | 6.3 |
| Ardmore | ..... | ..... | ..... | 6.0 | ..... | 1.1 | ..... | ..... | ..... | 7.1 |
| Cache | ..... | ..... | ..... | 6.0 | ..... | T. | ..... | ..... | ..... | 6.0 |
| Chickasha | ..... | ..... | ..... | 2.0 | ..... | T. | ..... | ..... | ..... | 2.0 |
| Durant | ..... | ..... | ..... | 3.5 | 0.2 | 3.0 | ..... | ..... | ..... | 6.7 |
| Guthrie | ..... | ..... | ..... | 3.3 | (*) | 5.2 | ..... | ..... | ..... | ..... |
| Hennessey | ..... | ..... | ..... | 2.0 | T. | 8.0 | ..... | ..... | ..... | 10.0 |
| Hooker | ..... | ..... | ..... | 4.0 | 3.0 | 2.5 | ..... | ..... | ..... | 9.5 |
| Kingfisher | ..... | ..... | ..... | 1.5 | T. | 3.7 | ..... | ..... | ..... | 5.2 |
| McAlester | ..... | ..... | ..... | 2.5 | ..... | 3.6 | ..... | ..... | ..... | 6.1 |
| Mangum | ..... | ..... | ..... | 3.0 | ..... | T. | ..... | ..... | ..... | 3.0 |
| Muskogee | ..... | ..... | ..... | T. | ..... | 6.0 | ..... | ..... | ..... | 6.0 |
| Oklahoma | ..... | ..... | ..... | 1.4 | T. | 1.5 | ..... | ..... | ..... | 1.9 |
| Okmulgee | ..... | ..... | ..... | T. | ..... | 5.0 | ..... | ..... | ..... | 5.0 |
| Pawhuska | ..... | ..... | ..... | 3.5 | T. | 5.0 | ..... | ..... | ..... | 8.5 |
| Perry | ..... | ..... | ..... | 3.5 | 0.5 | 5.0 | ..... | ..... | ..... | 9.0 |
| Vinita | ..... | ..... | ..... | 5.0 | T. | 11.0 | ..... | T. | ..... | 16.0 |
| Woodward | ..... | ..... | ..... | 0.7 | 2.5 | 2.2 | ..... | ..... | ..... | 5.4 |
| *Oregon.* | | | | | | | | | | |
| Ashland | ..... | ..... | 4.0 | 3.8 | 5.5 | 7.1 | 1.3 | ..... | ..... | 21.7 |
| Astoria | ..... | ..... | (*) | (*) | (*) | ..... | ..... | ..... | ..... | ..... |
| Baker City | ..... | 0.3 | 3.5 | 23.3 | (*) | (*) | (*) | (*) | (*) | ..... |
| Bay City | ..... | ..... | ..... | 0.5 | T. | 0.5 | ..... | ..... | ..... | 1.0 |
| Burns | ..... | 3.0 | 1.0 | 24.0 | 13.0 | 10.0 | ..... | ..... | ..... | 51.0 |
| Cascadia | ..... | ..... | ..... | 10.5 | 5.3 | 8.0 | ..... | ..... | ..... | 15.8 |
| Corvallis | ..... | ..... | ..... | (*) | (*) | 6.0 | ..... | ..... | ..... | ..... |
| Dayville | ..... | ..... | 1.8 | 4.6 | 3.7 | 5.5 | T. | ..... | ..... | 15.6 |
| Eugene | ..... | ..... | ..... | 6.8 | 2.0 | 1.5 | ..... | ..... | ..... | 10.3 |
| Fairview | ..... | ..... | ..... | T. | 1.0 | 5.0 | ..... | ..... | ..... | 6.0 |
| Falls City | (*) | (*) | (*) | (*) | 2.0 | 4.0 | ..... | ..... | ..... | ..... |
| Gold Beach | ..... | ..... | ..... | ..... | T. | ..... | ..... | ..... | ..... | T. |
| Grants Pass | ..... | ..... | ..... | 3.0 | 4.2 | T. | ..... | ..... | ..... | 7.2 |
| Grass Valley | ..... | ..... | 2.0 | 12.5 | ..... | 8.0 | ..... | ..... | ..... | 22.5 |
| Heppner | ..... | ..... | 5.1 | (*) | 9.7 | 12.3 | ..... | T. | ..... | ..... |
| Hood River | ..... | ..... | 0.5 | 24.5 | 1.5 | 16.5 | ..... | ..... | ..... | 43.0 |
| Joseph | ..... | ..... | 11.0 | 21.0 | 18.0 | 21.0 | 5.2 | 2.5 | ..... | 78.7 |
| Klamath Falls | ..... | ..... | ..... | 0.4 | 14.4 | 4.7 | ..... | ..... | ..... | 19.5 |
| La Grande | ..... | ..... | 5.0 | 10.5 | 20.0 | 42.3 | T. | ..... | ..... | 77.8 |
| Mikkalo | ..... | ..... | 3.0 | 14.6 | 5.0 | 8.0 | ..... | ..... | ..... | 30.6 |
| Miramonte Farm | ..... | ..... | ..... | 5.5 | 4.0 | 6.8 | ..... | ..... | ..... | 16.3 |
| Newport | ..... | ..... | ..... | 6.0 | ..... | ..... | ..... | ..... | ..... | 6.0 |
| Pompeii | T. | 8.5 | 34.0 | 40.0 | 55.0 | 96.5 | 6.0 | 12.0 | 12.0 | 264.0 |
| Portland | ..... | ..... | ..... | 10.3 | 2.1 | 2.1 | ..... | ..... | ..... | 14.5 |
| Post | T. | T. | 5.5 | 16.0 | 6.5 | 9.1 | ..... | T. | ..... | 37.1 |
| "P" Ranch | ..... | 0.5 | T. | ..... | ..... | ..... | 2.0 | ..... | ..... | 2.5 |
| Prospect | ..... | 1.0 | 8.5 | 28.0 | 21.0 | 13.5 | 2.0 | 1.0 | ..... | 75.0 |
| Range | ..... | 1.0 | 13.0 | 12.0 | 14.0 | 42.0 | (*) | 1.0 | ..... | ..... |
| Riverside | ..... | ..... | 1.5 | 15.0 | 8.5 | 9.5 | T. | ..... | ..... | 34.5 |
| Roseburg | ..... | ..... | ..... | 0.3 | 2.0 | T. | ..... | ..... | ..... | 2.3 |
| Seneca | ..... | 2.0 | 2.0 | 11.0 | 6.0 | 12.5 | ..... | ..... | ..... | 33.5 |
| Silver Lake | ..... | ..... | 1.0 | 8.0 | 27.5 | 8.0 | (*) | (*) | ..... | ..... |
| Sisters | ..... | ..... | 4.0 | 28.0 | 6.0 | 15.5 | ..... | ..... | ..... | 53.5 |
| The Dalles | ..... | ..... | T. | 29.5 | 3.7 | 10.5 | ..... | ..... | ..... | 43.7 |
| Unity | ..... | ..... | 2.5 | 29.0 | 11.0 | 11.5 | ..... | ..... | ..... | 54.0 |
| Vale | ..... | ..... | ..... | 13.0 | 6.5 | 6.7 | ..... | ..... | ..... | 26.2 |
| Warmspring | ..... | ..... | 0.8 | 23.5 | 2.2 | 7.2 | ..... | ..... | ..... | 33.7 |
| Weston | ..... | ..... | 6.0 | 12.5 | 13.5 | 12.5 | ..... | ..... | ..... | 44.5 |

MONTHLY AND SEASONAL SNOWFALL, 1909–1910—Continued.

| State and station. | 1909 | | | | 1910 | | | | | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | |
| *Pennsylvania.* | | | | | | | | | | |
| Aleppo | | T. | T. | 13.0 | 24.0 | 20.0 | T. | 1.0 | T. | 58.0 |
| Clearfield | | T. | 1.0 | 11.4 | 30.5 | 13.2 | 0.7 | (*) | | |
| East Mauch Chunk | | | 6.2 | 14.2 | 24.2 | 11.0 | T. | | | 55.6 |
| Emporium | | 0.5 | T. | 8.4 | 26.7 | 21.8 | 0.7 | 1.0 | | 59.1 |
| Erie | | T. | 2.5 | 18.1 | 32.0 | 23.0 | 1.4 | 0.3 | | 77.3 |
| Everett | | | T. | 12.2 | 21.2 | 9.5 | T. | T. | | 42.9 |
| Franklin | | T. | 0.5 | 8.5 | 41.5 | 25.8 | 1.0 | 1.0 | | 78.3 |
| Gettysburg | | | | 10.8 | 30.0 | 10.2 | 1.1 | | | 52.1 |
| Harrisburg | | | 0.2 | 8.5 | 21.5 | 9.9 | T. | T. | | 40.1 |
| Huntingdon | | | T. | 10.8 | 25.5 | 9.0 | T. | 1.0 | | 46.3 |
| Indiana | | | T. | 18.0 | 31.0 | 19.0 | 1.5 | T. | | 69.5 |
| Irwin | | | T. | 4.8 | 9.8 | 5.4 | T. | 1.0 | | 21.0 |
| Johnstown | | T. | T. | 15.7 | 27.8 | (*) | (*) | (*) | | |
| Kennett Square | | | 0.2 | 24.0 | (*) | (*) | 1.0 | | | |
| Lawrenceville | | | 4.0 | 5.0 | 26.0 | 27.0 | T. | 2.0 | | 79.7 |
| Leroy | | 0.1 | 3.4 | 7.6 | 19.2 | 20.8 | 3.2 | 1.9 | | 56.2 |
| Lewisburg | | | 4.0 | 8.3 | 25.6 | 13.4 | 1.1 | | | 52.4 |
| Lock Haven | | T. | T. | 6.8 | 19.8 | 13.0 | 1.0 | 0.4 | | 41.0 |
| Milford | | | 4.0 | 19.0 | 18.7 | 15.2 | 1.0 | T. | | 57.9 |
| Montrose | | | 6.0 | 14.0 | 33.5 | 30.5 | 1.5 | (*) | | |
| New Germantown | | | | 5.0 | 20.0 | 7.0 | T. | | | 32.0 |
| Philadelphia | | | T. | 22.4 | 9.2 | 4.2 | 0.3 | | | 36.1 |
| Pittsburg | | T. | 0.2 | 8.6 | 22.3 | 16.2 | 0.7 | T. | | 48.0 |
| Reading | | | 3.5 | 24.1 | 15.2 | 7.3 | (*) | | | |
| Saegertown | | T. | (*) | 15.5 | 32.0 | (*) | 2.0 | (*) | | |
| Scranton | | T. | 5.9 | 17.0 | 18.6 | 12.3 | 2.2 | T. | | 56.0 |
| Somerset | | T. | 1.5 | 28.2 | 50.4 | 30.8 | 3.7 | 3.2 | | 117.8 |
| Warren | | 2.0 | 5.8 | 17.8 | 28.2 | 25.8 | 5.0 | 2.6 | | 87.2 |
| Wellsboro | | T. | 2.0 | 6.0 | 20.0 | 22.0 | 2.0 | T. | | 52.0 |
| Wilkes-Barre | | | 3.5 | 8.0 | 17.0 | 5.0 | (*) | (*) | | |
| *Rhode Island.* | | | | | | | | | | |
| Block Island | | | T. | 0.6 | 8.8 | 1.0 | 2.2 | | | 12.6 |
| Bristol | | | | 6.0 | 14.0 | 5.0 | 2.0 | | | 27.0 |
| Kingston | | | T. | 13.5 | 17.0 | 5.0 | 3.5 | | | 39.0 |
| Narragansett Pier | | | T. | 3.5 | 11.0 | 2.0 | 2.5 | | | 19.0 |
| Providence | | | T. | 10.3 | 15.7 | 10.6 | 0.5 | | | 37.1 |
| *South Carolina.* | | | | | | | | | | |
| Blackville | | | | | | | | | | 0.0 |
| Charleston | | | | | | | | | | 0.0 |
| Cheraw | | | | T. | 0.1 | | | | | 0.1 |
| Clemson College | | | | | | 3.0 | | | | 3.0 |
| Columbia | | | | T. | T. | | | | | T. |
| Florence | | | | | | | | | | 0.0 |
| Georgetown | | | | | T. | | | | | T. |
| Greenville | | | | 2.0 | (*) | 0.3 | | | | |
| Smith Mills | | | | | | | | | | 0.0 |
| Spartanburg | | | | T. | 0.5 | | | | | 0.5 |
| Trenton | | | | | T. | | | | | T. |
| *South Dakota.* | | | | | | | | | | |
| Aberdeen | | T. | 12.0 | 21.2 | 5.2 | 12.0 | (*) | 16.0 | | |
| Academy | | T. | 17.0 | 16.2 | 13.5 | 2.4 | 2.0 | 6.5 | | 57.6 |
| Alexandria | | T. | 15.5 | 9.0 | 21.0 | T. | | 4.0 | | 49.5 |
| Brookings | | T. | 5.5 | 6.0 | 10.8 | 4.0 | T. | 4.0 | | 30.3 |
| Canton | | T. | 15.0 | 15.0 | 16.0 | 3.0 | | 3.0 | | 52.0 |
| Chamberlain | | | 15.0 | 14.0 | 14.0 | T. | T. | T. | | 43.0 |
| Clark | | T. | 12.5 | 13.5 | 10.5 | 4.7 | 0.2 | 8.0 | | 49.4 |
| Daviston | | | 5.0 | 5.0 | 9.5 | 6.5 | T. | | | 26.0 |
| De Smet | | T. | 6.0 | 12.0 | 20.0 | 6.0 | T. | 5.0 | | 49.0 |
| Forestburg | | T. | 14.0 | 13.0 | 26.4 | 4.0 | (*) | 7.5 | | |
| Gannvalley | | | 17.0 | 25.0 | 12.7 | 3.0 | | (*) | | |
| Hill City | | 0.1 | 10.6 | 7.0 | 9.0 | 1.0 | 12.0 | T. | T. | 39.7 |
| Howard | | T. | (*) | 9.5 | 16.5 | 3.3 | (*) | 4.3 | | |
| Huron | | T. | 12.6 | 10.3 | 19.9 | 2.4 | T. | 3.1 | | 48.3 |
| Kadoka | | T. | 7.5 | 6.6 | 10.0 | 1.0 | 5.0 | | | 30.1 |

MONTHLY AND SEASONAL SNOWFALL, 1909–1910—Continued.

| State and station. | 1909 | | | | 1910 | | | | | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | |
| *South Dakota*—Continued. | | | | | | | | | | |
| Lead | T. | 1.0 | 7.5 | 32.0 | 24.2 | 5.8 | 10.0 | 13.5 | 5.0 | 99.0 |
| Marion | ..... | T. | 21.0 | 24.5 | 28.5 | 2.5 | T. | 2.0 | ..... | 78.5 |
| Menno | ..... | 0.2 | 14.0 | 12.6 | 12.5 | 2.5 | T. | 5.5 | ..... | 47.3 |
| Milbank | ..... | 0.2 | 6.1 | 19.1 | 6.3 | 4.5 | ..... | 3.2 | ..... | 39.4 |
| Oelrichs | ..... | ..... | 10.0 | 10.0 | 3.0 | 4.6 | ..... | ..... | ..... | 27.6 |
| Pierre | ..... | T. | 13.0 | 12.1 | 13.1 | 2.1 | T. | T. | ..... | 40.3 |
| Rapid City | ..... | ..... | 10.7 | 9.6 | 9.0 | 1.4 | 8.3 | T. | T. | 39.0 |
| Sioux Falls | ..... | T. | 13.0 | 11.5 | 20.5 | 1.2 | ..... | T. | ..... | 46.2 |
| Tama | ..... | T. | 10.2 | 12.7 | 11.3 | 2.2 | T. | T. | ..... | 36.4 |
| Vale | ..... | ..... | 7.2 | 10.5 | 8.2 | 1.6 | 1.4 | T. | 0.2 | 29.1 |
| Yankton | ..... | T. | 25.8 | 17.2 | 15.0 | 3.3 | T. | 5.0 | ..... | 66.3 |
| *Tennessee.* | | | | | | | | | | |
| Ashwood | ..... | ..... | ..... | 3.0 | 0.5 | 12.5 | ..... | T. | ..... | 16.0 |
| Carthage | ..... | ..... | ..... | 2.7 | 2.0 | 8.4 | ..... | 3.2 | ..... | 16.3 |
| Chattanooga | ..... | ..... | ..... | 7.0 | 0.9 | 2.6 | ..... | 4.1 | ..... | 14.6 |
| Clarksville | ..... | ..... | ..... | 5.0 | 13.2 | 12.2 | ..... | 3.6 | ..... | 34.0 |
| Decatur | ..... | ..... | ..... | 3.5 | 0.2 | 6.0 | ..... | T. | ..... | 9.7 |
| Florence | ..... | ..... | ..... | 2.0 | 1.0 | 12.0 | ..... | 1.2 | ..... | 16.2 |
| Jonesboro | ..... | ..... | ..... | (*) | (*) | (*) | ..... | T. | ..... | ..... |
| Knoxville | ..... | ..... | ..... | 1.4 | 2.0 | 4.1 | ..... | 0.7 | ..... | 8.2 |
| McMinnville | ..... | ..... | ..... | 9.4 | 3.2 | 10.8 | ..... | 8.3 | ..... | 31.7 |
| Memphis | ..... | ..... | ..... | 3.2 | 8.0 | 7.0 | ..... | T. | ..... | 18.2 |
| Nashville | ..... | ..... | ..... | 0.8 | 1.7 | 8.9 | ..... | 1.5 | ..... | 12.9 |
| Palmetto | ..... | ..... | ..... | 2.5 | T. | 14.0 | ..... | T. | ..... | 16.5 |
| Pope | ..... | ..... | ..... | 4.0 | 2.0 | 9.0 | ..... | 0.3 | ..... | 15.3 |
| Rogersville | ..... | ..... | ..... | 2.0 | T. | 4.0 | ..... | T. | ..... | 6.0 |
| Rugby | ..... | T. | T. | 8.0 | 9.0 | 9.5 | ..... | 5.0 | ..... | 31.5 |
| Savannah | ..... | ..... | ..... | 2.0 | 1.5 | 9.5 | ..... | T. | ..... | 13.0 |
| Trenton | ..... | ..... | ..... | T. | 10.0 | 10.5 | ..... | T. | ..... | 20.5 |
| Union City | ..... | ..... | ..... | T. | 12.0 | 6.0 | ..... | 9.0 | ..... | 27.0 |
| Yukon | ..... | ..... | ..... | (*) | (*) | 7.5 | ..... | ..... | ..... | ..... |
| *Texas.* | | | | | | | | | | |
| Abilene | ..... | ..... | ..... | 2.5 | T. | 0.1 | ..... | ..... | ..... | 2.6 |
| Amarillo | ..... | ..... | 7.4 | 5.3 | 0.3 | 1.7 | ..... | 1.1 | ..... | 15.8 |
| Ballinger | ..... | ..... | ..... | 2.0 | 1.0 | ..... | ..... | ..... | ..... | 3.0 |
| Barstow | ..... | ..... | T. | 1.0 | ..... | ..... | T. | T. | ..... | 1.0 |
| Big Springs | ..... | ..... | ..... | 4.0 | ..... | ..... | ..... | ..... | ..... | 4.0 |
| Bowie | ..... | ..... | ..... | 5.3 | ..... | 1.5 | ..... | ..... | ..... | 6.8 |
| Corpus Christi | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.0 |
| Dalhart | ..... | ..... | 6.4 | 1.5 | 2.0 | 0.3 | ..... | ..... | ..... | 10.2 |
| Dallas | ..... | ..... | ..... | 3.0 | ..... | ..... | ..... | ..... | ..... | 3.0 |
| Del Rio | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.0 |
| Dublin | ..... | ..... | ..... | 3.5 | 3.5 | 1.0 | ..... | ..... | ..... | 8.0 |
| El Paso | ..... | ..... | ..... | 4.1 | ..... | ..... | ..... | ..... | ..... | 4.1 |
| Fort Worth | ..... | ..... | ..... | 3.0 | 5.0 | 1.5 | ..... | ..... | ..... | 9.5 |
| Galveston | ..... | ..... | ..... | ..... | ..... | 0.1 | ..... | ..... | ..... | 0.1 |
| Hallettsville | ..... | ..... | ..... | T. | ..... | ..... | ..... | ..... | ..... | T. |
| Haskell | ..... | ..... | ..... | 3.7 | ..... | T. | ..... | ..... | ..... | 3.7 |
| Houston | ..... | ..... | ..... | T. | ..... | ..... | ..... | ..... | ..... | T. |
| Marshall | ..... | ..... | ..... | 1.7 | 0.2 | 4.5 | ..... | ..... | ..... | 6.4 |
| Mount Blanco | ..... | ..... | ..... | (*) | 0.2 | ..... | ..... | ..... | ..... | ..... |
| Nacogdoches | ..... | ..... | ..... | ..... | T. | 1.0 | ..... | ..... | ..... | 1.0 |
| Palestine | ..... | ..... | ..... | 0.3 | T. | 2.2 | ..... | ..... | ..... | 2.5 |
| Paris | ..... | ..... | ..... | 3.5 | 1.5 | 4.8 | ..... | ..... | ..... | 9.8 |
| Plainview | ..... | ..... | ..... | 3.0 | ..... | T. | T. | ..... | ..... | 3.0 |
| Riverside | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.0 |
| San Antonio | ..... | ..... | ..... | ..... | ..... | 0.1 | ..... | ..... | ..... | 0.1 |
| San Saba | ..... | ..... | ..... | 0.1 | 0.4 | T. | ..... | ..... | ..... | 0.5 |
| Taylor | ..... | ..... | ..... | ..... | T. | 0.4 | ..... | ..... | ..... | 0.4 |
| Waco | ..... | ..... | ..... | 1.5 | ..... | 3.0 | ..... | ..... | ..... | 4.5 |
| *Utah.* | | | | | | | | | | |
| Annabella | ..... | ..... | 18.0 | 19.0 | 2.0 | 15.0 | ..... | (*) | ..... | ..... |
| Beaver | ..... | ..... | 15.0 | 13.9 | (*) | 4.2 | 9.5 | T. | ..... | ..... |
| Castle Rock | (*) | 4.0 | 13.0 | 13.5 | 5.0 | 25.5 | (*) | 3.0 | 6.0 | ..... |
| Cedar City | (*) | ..... | (*) | 7.0 | 5.0 | 6.0 | ..... | (*) | ..... | ..... |
| Corinne | ..... | 0.5 | 2.0 | 5.5 | 14.5 | 13.5 | ..... | ..... | ..... | 36.0 |

MONTHLY AND SEASONAL SNOWFALL, 1909–1910—Continued.

| State and station. | 1909 | | | | 1910 | | | | | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | |
| *Utah*—Continued. | | | | | | | | | | |
| Deseret | ..... | (*) | 2.0 | 4.0 | 3.0 | 4.0 | ..... | ..... | ..... | ..... |
| Farmington | ..... | T. | 4.0 | 24.5 | 27.0 | 18.0 | 2.0 | 2.0 | ..... | 77.5 |
| Fort Duchesne | ..... | ..... | 8.0 | 5.8 | 5.0 | 4.4 | ..... | ..... | ..... | 23.2 |
| Government Creek | ..... | 2.0 | 4.5 | 14.4 | 11.0 | 12.1 | 4.0 | 4.0 | 0.7 | 52.7 |
| Grayson | ..... | ..... | 10.0 | 55.0 | T. | 6.0 | ..... | ..... | ..... | 71.0 |
| Heber | ..... | 1.5 | 3.5 | 34.5 | 9.0 | 36.0 | 4.0 | (*) | ..... | ..... |
| Henefer | ..... | 3.0 | 6.2 | 17.5 | 11.5 | 32.0 | 3.8 | ..... | ..... | 74.0 |
| Kelton | ..... | ..... | 12.0 | 11.0 | 11.0 | 7.0 | ..... | ..... | ..... | 41.0 |
| Levan | ..... | 0.9 | 4.2 | 23.9 | 8.3 | 7.5 | T. | 5.2 | ..... | 50.0 |
| Loa | ..... | ..... | 3.0 | 9.0 | (*) | (*) | ..... | ..... | ..... | ..... |
| Marysvale | ..... | T. | 15.9 | 10.1 | 3.3 | 6.7 | T. | T. | ..... | 36.0 |
| Meadowville | ..... | 1.0 | T. | 5.5 | 9.0 | 17.0 | T. | 4.0 | ..... | 36.5 |
| Milford | ..... | ..... | 13.2 | 1.0 | (*) | 8.0 | ..... | (*) | ..... | ..... |
| Modena | ..... | ..... | 11.7 | 8.9 | 8.3 | 1.5 | 4.8 | ..... | ..... | 35.2 |
| Mount Nebo | ..... | ..... | 3.5 | 12.0 | 6.5 | 3.0 | ..... | ..... | ..... | 25.0 |
| Ogden | ..... | T. | 1.0 | 22.0 | 22.0 | 25.6 | (*) | ..... | T. | ..... |
| Provo | ..... | ..... | (*) | 4.5 | 12.2 | 22.0 | (*) | ..... | ..... | ..... |
| Richfield | ..... | ..... | 14.0 | (*) | (*) | 12.0 | ..... | ..... | ..... | ..... |
| Salt Lake City | ..... | T. | 4.2 | 13.8 | 14.3 | 10.1 | 1.5 | 1.5 | ..... | 45.4 |
| Scipio | ..... | T. | 8.0 | 17.0 | 2.0 | 4.0 | T. | 1.0 | ..... | 32.0 |
| Theodore | ..... | ..... | 4.3 | 9.7 | 7.8 | 4.7 | T. | T. | ..... | 26.5 |
| Tropic | ..... | ..... | 2.2 | 34.0 | 24.0 | 1.4 | 2.0 | (*) | ..... | ..... |
| Utah Lake P. S. | ..... | 0.1 | 2.5 | 16.5 | 8.0 | 20.0 | ..... | 2.5 | ..... | 49.6 |
| Vernal | (*) | ..... | 4.0 | 8.7 | (*) | 1.5 | ..... | ..... | ..... | ..... |
| *Vermont.* | | | | | | | | | | |
| Burlington | ..... | T. | 5.2 | 14.3 | 16.9 | 27.6 | 0.2 | 1.8 | ..... | 66.0 |
| Chelsea | ..... | 1.0 | (*) | 12.0 | 17.0 | 36.0 | (*) | 1.0 | ..... | ..... |
| Enosburg Falls | ..... | 0.5 | 6.0 | 18.0 | 17.3 | 29.0 | 6.0 | 4.0 | T. | 80.8 |
| Northfield | ..... | 1.3 | 7.4 | 16.5 | 17.3 | 36.3 | T. | T. | ..... | 78.8 |
| *Virginia.* | | | | | | | | | | |
| Bigstone Gap | ..... | ..... | ..... | 8.0 | 7.5 | 8.0 | ..... | ..... | ..... | 23.5 |
| Blacksburg | ..... | ..... | T. | 3.6 | 7.0 | 3.5 | T. | T. | ..... | 14.1 |
| Burkes Garden | ..... | T. | ..... | 4.0 | 7.0 | 6.0 | 1.0 | 1.0 | ..... | 19.0 |
| Callaville | ..... | ..... | ..... | ..... | 1.5 | 4.0 | ..... | ..... | ..... | 5.5 |
| Cape Henry | ..... | ..... | ..... | 0.8 | 2.0 | 5.7 | 2.1 | ..... | ..... | 10.6 |
| Charlottesville | ..... | ..... | T. | 7.2 | 14.0 | 3.5 | 2.0 | ..... | ..... | 26.7 |
| Dale Enterprise | ..... | ..... | T. | 6.0 | 14.0 | 5.0 | 6.0 | ..... | ..... | 31.0 |
| Fredericksburg | ..... | ..... | T. | 6.0 | 4.2 | 2.5 | 3.5 | ..... | ..... | 16.2 |
| Hot Springs | ..... | ..... | 0.4 | 4.0 | 8.0 | 6.0 | 1.0 | ..... | ..... | 19.4 |
| Lynchburg | ..... | ..... | T. | 5.0 | 3.5 | 2.7 | 1.2 | ..... | ..... | 12.4 |
| Mount Weather | ..... | T. | 2.8 | 9.1 | 23.3 | 4.1 | 2.2 | ..... | T. | 41.5 |
| Norfolk | ..... | ..... | ..... | 0.3 | T. | 6.0 | 6.0 | ..... | ..... | 12.3 |
| Richmond | ..... | ..... | T. | 3.3 | 1.0 | 0.7 | 5.9 | ..... | ..... | 10.9 |
| Stevens City | ..... | ..... | T. | 6.0 | 18.0 | 2.0 | ..... | ..... | ..... | 26.0 |
| Wytheville | ..... | ..... | T. | 2.0 | 4.6 | 8.5 | 0.7 | T. | ..... | 15.8 |
| *Washington.* | | | | | | | | | | |
| Aberdeen | ..... | ..... | ..... | 5.0 | 1.2 | 1.8 | ..... | ..... | ..... | 8.0 |
| Baker | ..... | ..... | ..... | 8.5 | 7.7 | 32.8 | (*) | ..... | ..... | ..... |
| Clearwater | ..... | ..... | ..... | (*) | 2.8 | T. | ..... | ..... | ..... | ..... |
| Cle-Elum | ..... | ..... | 10.0 | 28.0 | 19.0 | 65.0 | T. | 6.0 | ..... | 128.0 |
| Conconully | ..... | ..... | 6.8 | 16.7 | 14.2 | 4.5 | ..... | ..... | ..... | 42.2 |
| Dixie | ..... | 4.0 | 20.0 | 31.8 | 43.8 | 65.5 | 6.0 | 4.0 | ..... | 175.1 |
| Ellensburg | ..... | ..... | 1.0 | 12.1 | 5.6 | 8.0 | ..... | ..... | ..... | 26.7 |
| Goat Lake | ..... | ..... | 36.0 | 26.0 | 23.2 | 72.7 | 18.5 | 19.5 | ..... | 195.9 |
| Kosmos | ..... | ..... | T. | 7.5 | 12.0 | 22.5 | ..... | (*) | ..... | ..... |
| La Center | ..... | ..... | ..... | 5.0 | 10.5 | 8.0 | T. | ..... | ..... | 23.5 |
| Lake Keechelus | ..... | 0.2 | 16.0 | 55.0 | (*) | 131.0 | 4.0 | 14.0 | ..... | ..... |
| Lakeside | ..... | ..... | 5.0 | 16.0 | 8.0 | 8.5 | ..... | ..... | ..... | 37.5 |
| Lyle | ..... | ..... | 4.6 | 14.6 | 12.6 | 11.0 | ..... | (*) | (*) | ..... |
| Moxee | ..... | ..... | (*) | 8.5 | 4.1 | 4.1 | ..... | ..... | ..... | ..... |
| North Head | ..... | ..... | ..... | 1.2 | 0.1 | T. | ..... | ..... | ..... | 1.3 |
| Northport | ..... | ..... | 8.6 | 11.4 | 8.0 | 10.5 | 0.8 | ..... | ..... | 39.3 |
| Olga | ..... | ..... | ..... | 2.0 | ..... | 9.0 | 1.1 | ..... | ..... | 12.1 |
| Olympia | ..... | ..... | ..... | 7.5 | 2.5 | 4.0 | ..... | ..... | ..... | 14.0 |
| Oroville | ..... | ..... | 0.1 | 5.5 | 4.0 | 5.9 | ..... | ..... | ..... | 15.5 |
| Port Crescent | ..... | ..... | T. | 0.5 | 4.8 | 10.3 | 0.5 | T. | ..... | 16.1 |

MONTHLY AND SEASONAL SNOWFALL, 1909–1910—Continued.

| State and station. | 1909 | | | | 1910 | | | | | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | |
| *Washington*—Continued. | | | | | | | | | | |
| Pullman | ..... | ..... | 2.2 | 11.2 | (*) | 17.0 | ..... | 1.0 | ..... | ..... |
| Rosalia | ..... | ..... | 0.4 | 3.4 | 6.6 | 13.9 | ..... | 1.5 | ..... | 25.8 |
| Russell's Ranch | ..... | ..... | 22.0 | 32.5 | 26.4 | 55.3 | 1.2 | 7.2 | ..... | 144.6 |
| Seattle | ..... | ..... | ..... | 2.1 | 2.5 | 10.7 | ..... | ..... | ..... | 15.3 |
| Spokane | ..... | ..... | 0.6 | 6.6 | 4.9 | 13.5 | T. | T. | ..... | 25.6 |
| Tacoma | ..... | ..... | ..... | 10.3 | 0.6 | 9.3 | T. | T. | ..... | 20.2 |
| Tatoosh Island | ..... | ..... | T. | 3.2 | 1.6 | 1.1 | T. | T. | ..... | 5.9 |
| Walla Walla | ..... | ..... | 3.3 | 11.0 | 8.2 | 17.5 | ..... | ..... | ..... | 40.0 |
| Waterville | ..... | ..... | 12.0 | 22.5 | 5.8 | 10.0 | (*) | (*) | ..... | ..... |
| Wenatchee | ..... | ..... | 11.7 | 21.2 | 7.5 | 9.8 | (*) | 1.0 | ..... | ..... |
| *West Virginia.* | | | | | | | | | | |
| Charleston | ..... | ..... | T. | 4.2 | 6.0 | 10.5 | ..... | T. | ..... | 20.7 |
| Elkins | ..... | T. | T. | 13.2 | 17.4 | 10.7 | 0.6 | T. | T. | 41.9 |
| Fairmont | ..... | ..... | T. | 6.4 | 12.0 | 11.5 | T. | ..... | ..... | 29.9 |
| Glenville | ..... | ..... | T. | 10.0 | 13.0 | 14.0 | T. | ..... | ..... | 37.0 |
| Grafton | ..... | ..... | T. | 6.7 | 11.0 | 13.5 | 0.2 | ..... | ..... | 31.4 |
| Huntington | ..... | ..... | ..... | 6.0 | 7.5 | 12.0 | T. | ..... | ..... | 25.5 |
| Lewisburg | ..... | T. | T. | 4.5 | 6.2 | 4.5 | 1.8 | T. | T. | 17.0 |
| Martinsburg | ..... | ..... | ..... | 6.0 | 20.0 | 7.0 | 1.0 | ..... | ..... | 34.0 |
| Parkersburg | ..... | ..... | T. | 6.6 | 18.0 | 12.2 | 0.1 | T. | ..... | 36.9 |
| Pickens | ..... | 4.0 | 3.0 | 35.0 | 43.0 | 39.0 | 4.0 | 7.2 | T. | 135.2 |
| Point Pleasant | ..... | ..... | ..... | 4.0 | 5.0 | 10.0 | T. | T. | ..... | 19.0 |
| Princeton | ..... | T. | 1.0 | 21.0 | 16.5 | 12.0 | 5.0 | 1.0 | ..... | 56.5 |
| *Wisconsin.* | | | | | | | | | | |
| Appleton | ..... | ..... | T. | 21.2 | 7.8 | 16.2 | 13.0 | 10.1 | 0.3 | 68.6 |
| Ashland | ..... | ..... | 0.2 | 5.2 | 4.8 | 24.7 | 12.5 | 14.0 | T. | 61.4 |
| Brodhead | ..... | ..... | 0.5 | 5.0 | 9.5 | 6.5 | 2.0 | 2.0 | T. | 25.5 |
| Delavan | ..... | ..... | T. | 6.0 | 9.0 | 5.0 | 2.0 | 0.8 | 0.2 | 23.0 |
| Eau Claire | T. | ..... | 0.6 | 9.2 | 8.8 | 17.5 | 11.7 | 11.4 | 1.8 | 61.0 |
| Florence | T. | ..... | 2.0 | 17.5 | 8.0 | 23.0 | 24.2 | 17.5 | 1.0 | 93.2 |
| Grantsburg | T. | ..... | 0.8 | 9.0 | 8.0 | 21.5 | 4.5 | 32.2 | 5.0 | 81.0 |
| Green Bay | ..... | ..... | T. | 13.4 | 4.8 | 13.5 | 12.3 | 4.3 | 0.5 | 48.8 |
| Hayward | ..... | ..... | T. | 6.9 | 2.8 | 15.2 | 6.0 | 30.2 | 2.0 | 63.1 |
| Kewaunee | ..... | ..... | (*) | 16.7 | 14.0 | 14.5 | 8.0 | 8.0 | 1.0 | ..... |
| La Crosse | ..... | ..... | 0.2 | 8.0 | 12.5 | 16.9 | 15.2 | 10.8 | 0.3 | 63.9 |
| Madison | ..... | T. | T. | 7.8 | 13.6 | 12.7 | 4.2 | 0.8 | 0.4 | 39.5 |
| Medford | T. | ..... | 2.0 | 14.5 | 3.0 | 15.0 | 9.0 | 23.6 | ..... | 67.1 |
| Milwaukee | ..... | ..... | T. | 8.7 | 12.8 | 16.5 | 2.0 | 1.4 | 2.1 | 43.5 |
| Mondovi | ..... | ..... | 1.0 | 10.5 | 15.5 | 15.0 | 12.5 | 7.0 | 3.0 | 64.5 |
| Oconto | ..... | ..... | 1.0 | 19.0 | 8.2 | 32.0 | 22.5 | 11.0 | (*) | ..... |
| Osceola | T. | ..... | T. | 9.0 | 10.0 | 19.0 | 12.0 | 22.0 | 0.1 | 32.1 |
| Pine River | ..... | ..... | T. | 18.6 | 7.7 | 14.4 | 8.3 | 8.6 | 0.1 | 57.7 |
| Portage | ..... | ..... | T. | 10.0 | 7.0 | 9.0 | 14.0 | 5.0 | T. | 45.0 |
| Prairie du Chien | ..... | ..... | 0.8 | 5.5 | 8.2 | 9.2 | 9.5 | 0.2 | 0.2 | 33.6 |
| Rhinelander | T. | ..... | 2.0 | 15.8 | 6.0 | 13.9 | 12.8 | 18.6 | 1.5 | 70.6 |
| Shullsburg | ..... | ..... | T. | 7.2 | 9.5 | 7.5 | 3.5 | 1.8 | 0.6 | 30.1 |
| Solon Springs | 0.5 | T. | T. | 2.0 | 7.2 | 10.0 | 3.2 | 19.0 | 1.3 | 43.2 |
| Spooner | 0.2 | ..... | 1.2 | 8.2 | 5.0 | 8.0 | 5.0 | 12.9 | 1.0 | 41.5 |
| Stevens Point | ..... | ..... | T. | 16.0 | (*) | 19.6 | 18.2 | 9.8 | 1.0 | ..... |
| Sheboygan | ..... | ..... | T. | 17.5 | 14.5 | 23.0 | 10.0 | 9.5 | T. | 74.5 |
| Valley Junction | T. | ..... | 1.0 | 14.0 | 14.0 | 23.5 | 20.2 | 10.0 | 3.0 | 85.7 |
| Viroqua | T. | T. | 0.5 | 9.5 | 18.0 | 12.0 | 9.0 | 2.5 | T. | 51.5 |
| Vudesare | 2.5 | ..... | 2.8 | 13.2 | 3.5 | 16.8 | 9.5 | 28.0 | 4.0 | 80.3 |
| Watertown | ..... | ..... | T. | 9.0 | 13.0 | 13.0 | 6.5 | 1.0 | 0.2 | 42.7 |
| Waupaca | ..... | ..... | T. | 19.5 | 5.5 | 18.5 | 15.8 | 8.0 | ..... | 67.3 |
| *Wyoming.* | | | | | | | | | | |
| Barnum | 3.0 | 6.0 | 3.0 | 12.6 | 13.0 | 4.0 | 10.5 | 18.0 | ..... | 96.0 |
| Basin | ..... | ..... | T. | 7.5 | 5.0 | 1.5 | ..... | 2.5 | ..... | 16.5 |
| Bedford | T. | 8.8 | 3.4 | 7.0 | 40.9 | 28.3 | 14.9 | 3.5 | ..... | 106.8 |
| Cheyenne | 0.4 | 8.1 | 6.4 | 8.3 | 4.1 | 15.9 | 35.9 | 9.6 | 0.1 | 88.8 |
| Chugwater | ..... | 7.0 | 4.0 | 10.0 | 11.5 | 18.0 | 8.0 | 10.5 | ..... | 69.0 |
| Clark | T. | 2.5 | 1.5 | 8.0 | 26.0 | 1.0 | 4.5 | 2.5 | T. | 46.0 |
| Daniel | 1.0 | T. | 1.0 | 7.0 | 29.0 | 26.0 | 1.0 | 2.0 | T. | 67.0 |
| Dubois | 6.0 | 8.5 | 0.5 | 3.5 | 21.0 | 10.0 | 19.0 | 1.5 | 0.3 | 70.3 |
| Eaton's Ranch | ..... | 8.0 | 4.0 | 16.2 | 12.0 | 5.0 | 15.0 | 48.0 | 2.0 | 110.2 |
| Echeta | 2.0 | 5.0 | 1.0 | 18.5 | 2.0 | 2.0 | 1.0 | 7.0 | 0.4 | 38.9 |

MONTHLY AND SEASONAL SNOWFALL, 1909–1910—Continued.

| State and station. | 1909 | | | | 1910 | | | | | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May. | |
| *Wyoming*—Continued. | | | | | | | | | | |
| Eden | 1.5 | 2.5 | 0.1 | T. | (*) | 9.0 | 11.5 | T. | 0.5 | ..... |
| Elk Mountain | 2.0 | 30.5 | 16.0 | 44.0 | 41.0 | 85.0 | 46.5 | 63.5 | 15.0 | 343.5 |
| Evanston | 1.0 | 3.0 | 4.0 | 4.0 | 22.0 | 13.0 | 10.0 | 5.0 | 2.0 | 64.0 |
| Fort Laramie | ..... | 3.3 | 3.0 | 5.6 | 3.0 | 9.1 | 15.1 | 2.0 | T. | 41.1 |
| Granite Canon | 0.8 | 13.5 | 9.5 | 10.5 | 8.5 | 33.0 | 63.1 | 14.8 | 1.2 | 154.9 |
| Green River | 0.5 | 7.0 | 5.5 | 1.5 | 1.5 | 8.5 | 10.0 | 0.5 | ..... | 35.0 |
| Hunters' Station | 10.0 | 29.0 | 8.0 | 23.0 | (*) | 11.0 | 25.0 | 36.0 | 5.0 | ..... |
| Independence | 0.5 | 9.2 | 3.5 | 3.6 | 3.6 | 9.5 | 8.2 | 9.1 | ..... | 47.2 |
| Kaycee | 5.3 | 6.4 | 4.8 | 14.2 | 4.0 | 7.7 | 5.6 | 10.9 | 2.5 | 61.4 |
| Kirtley | ..... | 5.0 | ..... | 5.0 | 6.5 | 10.5 | 6.0 | 2.5 | ..... | 35.5 |
| Lander | 3.3 | 25.4 | 7.1 | 10.3 | 4.3 | 7.6 | 18.4 | 20.1 | 1.5 | 98.0 |
| Laramie | ..... | 2.4 | 4.0 | 3.9 | 3.6 | 3.1 | 11.3 | 7.5 | 3.0 | 38.8 |
| Leo | T. | 13.5 | 5.0 | 6.0 | 6.8 | 22.2 | 11.0 | 4.0 | 2.0 | 70.5 |
| Lusk | ..... | 4.0 | 5.0 | 6.5 | 7.0 | 11.0 | 7.0 | 1.5 | ..... | 42.0 |
| Luther | 1.0 | 8.0 | 6.5 | 5.0 | 2.5 | 17.0 | 23.5 | 4.0 | ..... | 67.5 |
| Newcastle | 1.0 | T. | 1.0 | 16.0 | 5.0 | 7.5 | 5.0 | 7.0 | T. | 41.5 |
| Pathfinder | 0.2 | 6.2 | 5.0 | 6.8 | 3.0 | 8.5 | 3.2 | 2.8 | ..... | 35.7 |
| Phillips | T. | 9.0 | 5.0 | 10.5 | 10.5 | 14.0 | 4.0 | 8.0 | ..... | 61.0 |
| Pine Bluff | 2.0 | 18.0 | 10.0 | 4.0 | T. | 15.0 | 23.5 | 32.0 | ..... | 104.5 |
| Sheridan | 1.5 | 10.4 | 1.8 | 12.4 | 6.5 | 4.5 | 7.1 | 16.0 | T. | 60.2 |
| Shoshone Dam | 0.6 | 7.0 | 0.9 | 3.6 | 24.2 | 1.9 | 6.6 | 10.0 | 1.5 | 56.3 |
| Soldiers' Home | 2.0 | 5.0 | 0.5 | 12.0 | 4.5 | 2.5 | 6.0 | 13.8 | 0.5 | 46.8 |
| Thermopolis | 5.0 | 3.5 | 4.0 | 11.5 | 1.7 | 1.7 | 8.0 | 10.0 | T. | 45.4 |
| Wyncote | T. | 7.5 | 0.5 | 4.5 | 4.0 | 3.5 | 8.0 | 7.0 | ..... | 35.0 |
| Yellowstone Park | 0.8 | 8.1 | 4.3 | 8.3 | 23.3 | 12.2 | 11.8 | 8.8 | 4.3 | 81.9 |
| Lake Hotel | 4.0 | 19.0 | 7.5 | 11.8 | 54.0 | 38.5 | 23.5 | 33.0 | 21.5 | 220.3 |
| Norris | 3.0 | 14.0 | 8.5 | 14.0 | 31.5 | 29.0 | 10.0 | 17.0 | 9.0 | 136.0 |
| Riverside | 1.5 | 2.3 | 5.5 | 16.9 | 41.3 | 33.4 | 16.1 | 17.6 | 6.0 | 140.6 |
| Sylvan Pass | 2.0 | 23.0 | 8.0 | 18.5 | 47.0 | 18.5 | 7.0 | 22.2 | 3.0 | 149.2 |
| *Canadian stations.* | | | | | | | | | | |
| St. Johns, Newfoundland | ..... | ..... | 4.0 | 11.0 | 6.0 | 49.7 | 13.0 | 2.0 | ..... | 85.7 |
| Sydney, Cape Breton Island | ..... | ..... | 7.0 | 29.0 | 9.5 | 31.0 | 10.0 | T. | ..... | 86.5 |
| Halifax, Nova Scotia | ..... | 0.1 | 1.2 | 15.5 | 15.5 | 26.8 | 8.6 | 0.5 | ..... | 68.2 |
| Grand Manan, New Brunswick | ..... | T. | 2.8 | 12.7 | 3.4 | 28.0 | 2.5 | ..... | T. | 49.4 |
| Yarmouth, Nova Scotia | ..... | T. | 0.6 | 8.3 | 26.0 | 23.7 | 2.1 | 0.2 | ..... | 60.9 |
| Charlottetown, Prince Edward Island | ..... | 0.6 | 2.4 | 43.8 | 15.2 | 20.7 | 10.6 | 14.6 | T. | 107.9 |
| Chatham, New Brunswick | ..... | 2.0 | 7.6 | 29.0 | 6.6 | 21.9 | 13.7 | 7.8 | 7.4 | 96.0 |
| Father Point, Quebec | ..... | 2.7 | 14.7 | 24.9 | 14.3 | 20.7 | 10.9 | 1.0 | ..... | 89.2 |
| Quebec, Quebec | ..... | ..... | 9.3 | 19.9 | 27.0 | 34.1 | 12.1 | 1.4 | ..... | 103.8 |
| Montreal, Quebec | ..... | T. | 9.4 | 13.2 | 30.5 | 37.8 | 5.1 | 1.2 | ..... | 97.2 |
| Stonecliffe, Ontario | ..... | 0.1 | 19.2 | 31.8 | 10.3 | 6.1 | 3.0 | (*) | ..... | ..... |
| Ottawa, Ontario | ..... | T. | 6.7 | 18.0 | 18.1 | 21.3 | 10.8 | 0.2 | ..... | 75.1 |
| Kingston, Ontario | ..... | T. | 3.0 | 8.6 | 8.5 | 17.3 | 6.9 | 0.3 | ..... | 44.6 |
| Toronto, Ontario | ..... | 0.1 | 0.9 | 11.6 | 19.9 | 24.1 | 0.8 | 1.3 | ..... | 58.7 |
| White River, Ontario | ..... | 1.7 | 1.2 | 2.9 | 1.1 | 5.2 | 0.8 | 0.2 | T. | 13.1 |
| Port Stanley, Ontario | ..... | 0.2 | 1.0 | 12.1 | 33.2 | 21.6 | 1.0 | ..... | ..... | 69.1 |
| Southampton, Ontario | ..... | 0.5 | 6.3 | 47.6 | 36.2 | 20.7 | 5.1 | 1.5 | 0.3 | 118.2 |
| Parry Sound, Ontario | ..... | T. | 11.0 | 58.0 | 44.5 | 32.0 | 12.5 | 3.0 | ..... | 161.0 |
| Port Arthur, Ontario | ..... | ..... | 18.6 | 3.6 | 7.1 | 7.9 | 0.4 | 2.7 | ..... | 40.3 |
| Winnipeg, Manitoba | ..... | 1.4 | 8.4 | 39.9 | 2.5 | 15.6 | 3.0 | 10.7 | 2.3 | 83.8 |
| Minnedosa, Manitoba | ..... | 1.8 | 6.2 | 12.2 | 0.3 | 3.0 | 1.0 | 1.6 | 0.9 | 27.0 |
| Qu'Appelle, Saskatchewan | ..... | 0.2 | 10.6 | 31.1 | 1.5 | 5.9 | 9.0 | ..... | 1.1 | 59.4 |
| Medicine Hat, Alberta | ..... | ..... | 5.2 | 7.9 | 2.4 | 4.5 | 0.2 | ..... | ..... | 20.2 |
| Swift Current, Saskatchewan | ..... | 1.0 | 3.6 | 2.7 | 1.0 | 5.8 | 0.6 | T. | ..... | 14.7 |
| Calgary, Alberta | ..... | 4.6 | 2.1 | 4.4 | 2.1 | 8.8 | 2.0 | 2.0 | 3.8 | 29.8 |
| Banff, Alberta | T. | 3.9 | 37.6 | 10.2 | 4.5 | 19.4 | 15.9 | 9.0 | 3.3 | 103.8 |
| Edmonton, Alberta | ..... | 1.6 | 12.3 | 3.4 | 1.6 | 4.6 | 7.7 | 1.8 | ..... | 33.0 |
| Prince Albert, Saskatchewan | ..... | 2.0 | 14.0 | 19.0 | 8.1 | 4.5 | 3.1 | 3.0 | ..... | 53.7 |
| Battleford, Saskatchewan | ..... | 0.3 | 0.2 | 0.7 | 0.2 | 0.1 | 0.2 | ..... | ..... | 1.7 |
| Dawson, Yukon | 10.0 | 6.9 | 6.7 | 11.7 | 13.1 | 2.2 | 5.2 | 16.8 | ..... | 72.6 |
| Kamloops, British Columbia | ..... | ..... | 4.9 | 3.0 | 1.0 | 8.5 | 0.2 | ..... | ..... | 17.6 |
| Victoria, British Columbia | ..... | ..... | ..... | 0.8 | 0.7 | 8.2 | T. | ..... | ..... | 9.7 |
| Barkerville, British Columbia | ..... | ..... | 40.8 | 33.9 | 29.2 | 22.9 | 13.0 | 15.0 | 3.8 | 158.6 |