

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

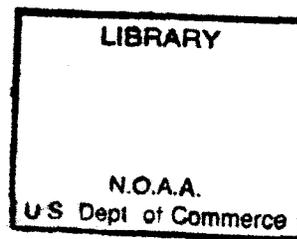
REPORT

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 1, 1911.

SIR: I have the honor to submit a report of the operations of the Weather Bureau during the fiscal year ended June 30, 1911.

WILLIS L. MOORE,
Chief of Weather Bureau.

Hon. JAMES WILSON,
Secretary of Agriculture.

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PART I.
ADMINISTRATIVE REPORT.

REPORT

OF THE

CHIEF OF THE WEATHER BUREAU.

MOUNT WEATHER RESEARCH OBSERVATORY.

The work of the observatory has been carried on along practically the same lines as for the previous year; at this time it is chiefly concerned with the investigation of the upper air over the United States. The work under this head may be divided into three separate branches, as follows:

(1) Soundings of the upper air over Mount Weather, Va., by means of kites and captive balloons.

(2) Soundings of the air at great altitudes by means of free balloons carrying meteorological instruments. While all preliminary testing and the later computing in this branch of the work are carried on at Mount Weather, the actual ascensions are made in the West, since the proximity of Mount Weather to the Atlantic Ocean on the east makes it inadvisable to send up free balloons from that point. The immediate supervision of all of the work enumerated under headings 1 and 2 is assigned to Research Director Wm. R. Blair.

(3) Study of the temperature and pressure changes in the lower layers of the air by means of summit and base stations in the mountains of Colorado.

PROGRESS IN AERIAL INVESTIGATIONS.

Considering first the aerial work at Mount Weather, it may be remarked that four years of nearly continuous kite or balloon records have been secured and published. During the fiscal year just ended 299 soundings were made by kites and 69 by captive balloons. The average altitude attained by the kites was 2,929 meters (9,609 feet); by captive balloons, 2,150 meters (7,054 feet) above sea level. Mount Weather itself is 525 meters (1,725 feet) above sea level. The number of kite flights in which an altitude of a mile above the mountain top (2,134 meters above sea level) was reached during the year was 250; two miles, 85. In but 10 flights was an altitude of 3 miles reached or exceeded. The mechanical equipment used in kite flying has been brought to a high state of perfection, as evidenced by the few "breakaways" of the kites during the year, but a kite meteorograph satisfactory in all respects remains to be constructed.

The classification and compilation of the Mount Weather kite and balloon data necessary in order to study the information secured under different weather conditions have been a part of the office work during the year, and a summary of the mean results for three years has been prepared and is now in the hands of the printer. It will appear as Part 2, Vol. IV of the Mount Weather Bulletin.

A most important piece of work was accomplished by the Mount Weather Observatory during the year in the completion of two sounding balloon campaigns; the first at Huron, S. Dak., and the second at Fort Omaha, Nebr. Some account of the earlier work in this direction was made in my last annual report. In order to present the subject intelligently, I shall repeat some of the facts given in previous reports.

The use of small free balloons to carry meteorological instruments into the upper regions of the atmosphere dates from 1893, nearly 20 years ago, when Messrs. Hermite and Besançon in France sent up varnished paper balloons carrying registering instruments which brought back a record of the meteorological conditions encountered in the ascension. To

Assman of Germany, however, is due the substitution of small rubber balloons in these ascents. The expansion of the confined gas at great altitudes bursts the balloon, the landing of the instrument being effected by means of a light parachute with which the balloon is covered.

The first series of sounding balloon ascents in the United States was made at St. Louis, Mo., in the years 1904 to 1907, inclusive, under the direction of Prof. A. Lawrence Rotch, of Blue Hill Observatory. Prof. Rotch conducted 77 ascensions, the instruments being recovered in all but five cases. Thirty-seven of the ascensions reached an altitude of 10,000 meters (6 miles) or greater. In the series by Prof. Rotch, heights exceeding 10 miles (16 kilometers) were attained five times. The Mount Weather Observatory has sent up 91 sounding balloons, of which number 81 were recovered. Heights exceeding 10 miles were attained in 37 cases, the greatest height attained being 18.9 miles at Huron, S. Dak., on September 1, 1910.

The exploration of the atmosphere by means of sounding balloons has become an international work, and is carried on through an international commission of which Prof. H. Hergesell, of Strassburg, is president. Through this commission are collected and published the results of aerial observations made quite generally at appointed times by all meteorological services in the northern hemisphere. The most important single result that has come from the observations is the discovery of a region in the atmosphere, about 7 miles above the earth's surface, where the fall in temperature with increasing altitude ceases. On the contrary, there may be a slight rise in temperature on entrance to this region. Although various names have been assigned to this region, none fully describes its characteristics. In this report it will be referred to as the "upper inversion." Inversions of temperature are frequently found in the atmosphere next to the earth, but they are generally small in amount and fleeting in character. The upper inversion, however, appears to be a world-wide phenomenon. It was discovered in northern Europe, and its presence has since been established in the United States, within the Arctic Circle, north of Europe, over tropical Africa and the Indian Ocean, and in Java.

The matter which follows is largely taken from a preliminary report on the data secured by sounding balloon ascensions in the United States. The full report will be published in the Mount Weather Bulletin, Vol. IV, probably in part 3, which will be sent to press in August, 1911. The statements refer to the most obvious facts ascertained by the balloon ascensions.

The original plan of sounding balloon ascensions in this country contemplated simultaneous ascents from two points on an east and west line. Notwithstanding the great area of the United States, regions adapted to the work are remarkably few, outside of the Western Plains and the Central Mississippi Valley. Fort Omaha, Nebr., was selected as the western station largely because of the presence there of a detachment of the United States Signal Corps which maintains a hydrogen gas plant. The thanks of the bureau are due to Gen. James Allen, Chief Signal Officer, and the local officials at Fort Omaha, for many courtesies shown while operations were conducted at that point. Indianapolis, Ind., was selected as the eastern station. The board of public parks of that city kindly placed at our disposal ground in the park system on which to conduct the ascensions. For various reasons the number of ascensions at this place was less than at Fort Omaha, but all of the balloon meteorographs sent up were eventually found and returned to Mount Weather.

The second and fourth series of ascensions were made at Fort Omaha, Nebr. In the second Omaha series the balloons used had been on hand about six months, and the rubber had so deteriorated during that time that heights much above 6,000 meters (3.7 miles) were not attained.

The third series was made at Huron, S. Dak. The advantages of the latter station lie in its geographic position, being farther north and thus more directly in the path of cyclonic and anticyclonic areas. A successful series of ascensions was made from the State Fair Grounds at Huron, 24 of the 26 instruments sent up being recovered.

During the fourth and last series of ascensions, at Fort Omaha, from February 8 to March 4, 1911, inclusive, 25 meteorographs were sent up, of which 22 were found and returned. This was also an excellent series, but unfortunately no well marked cyclonic areas passed over Fort Omaha during the three weeks the party was there.

Naturally the first thought in connection with the upper inversion is its relation to terrestrial weather conditions. Thus far ideas on the subject are quite hazy, but certain facts have been established, as follows: The lowest temperatures of the upper inversion are found in equatorial regions and the highest in the middle latitudes. In other words, temperature increases with increase of latitude, contrary to the rule which prevails on the earth's surface. In tropical Africa, Berson of the German Expedition found a temperature of -83.9°C . (-119°F .) at an altitude of 19 kilometers (11.8 miles).¹ At the same elevation in the United States the temperatures range between -55° and -60°C . (-67° to -76°F .) The discovery of the low temperatures aloft over the equator serves to increase, rather than diminish, the complexities involved in the accepted theories of the general circulation of the atmosphere. Another fact of great interest in connection with the upper inversion is that its temperature, while practically constant from season to season, varies greatly from place to place and from day to day. In the United States the mean of 50 ascensions made under the direction of the Mount Weather Observatory, all of which entered the region, gives for the lower limit of the upper inversion a temperature of -52.1°C . (-61.8°F .) regardless of season. The mean temperature of the lower limit of the upper inversion as deduced from the ascensions made under the direction of Prof. Rotch at St. Louis, Mo., for all seasons, is -56.0°C . (-68.8°F .) The lower temperatures registered over St. Louis may be due in part to the latitude effect. The mean temperature of the upper inversion in Europe is not far from -55°C . (-67°F .)

It is said that in Europe the beginning of the upper inversion is found at a less altitude over cyclonic than over anticyclonic areas; also that it is higher in summer than in winter. In this country the lower limit of the upper inversion does not appear to be at a less altitude in cyclonic than in anticyclonic areas, although the evidence is not absolutely conclusive either way. In the Huron series the upper inversion was reached at an altitude as low as 9,328 meters (5.8 miles) on the front of an anticyclone. It was also reached at the low elevation of 9,712 meters (6 miles) in the transition region between a cyclone and an anticyclone, and at an altitude of 9,372 meters (5.8 miles) in a cyclone, while on other occasions in cyclones it has been reached at altitudes ranging from 10,000 to 14,000 meters (6.0 to 8.7 miles). The greatest altitude at which it was encountered, 14,983 meters (9.3 miles) on September 28, 1909, was not in an anticyclone, but in the transition region between a northern cyclone and a southern anticyclone.

In the United States the seasonal distribution of the ascensions has not been so good as might be wished. If the year be divided into two portions, the warmer half, or from April to October, inclusive, and the colder half, from November to March, inclusive, the following results are obtained for the average height of the lower limit of the upper inversion:

	Meters.
Rotch, warmer half, 19 ascensions.....	11,986
Weather Bureau, warmer half, 29 ascensions.....	11,308
Rotch, colder half, 5 ascensions.....	11,192
Weather Bureau, colder half, 21 ascensions.....	11,082

Thus it is seen that the lower limit of the upper inversion in the United States is found at a slightly less altitude in winter than in summer, agreeing in the main with European observations. The winter series of 21 ascensions was made from February 8 to March 4, inclusive. The summer series was made mostly in September and October.

By reason of the clear skies and relatively dry air of South Dakota and other Western States, it was possible to make observations on the motions of the balloons after they had got well into the region of the upper inversion, and thus to obtain some interesting facts concerning the movement of the atmosphere in that region. It is apparent at the outset that the lower limit of the upper inversion is not sharply defined, but that the air motion in the explored part of that region, at least, partakes of, and probably is controlled by, that of the lower levels of the atmosphere on which it rests. The observations of the wind velocity in the region of the upper inversion were not conclusive in any respect, other than that the movement was at times considerable, and again of rather low value, as on September 7, 1910, when, at Huron, S. Dak.,

¹ Later ascensions made at Java, Batavia, confirm the existence of low temperatures over equatorial regions. See van Bemmeln in *Met. Zeit.*, May, 1911.

winds at 3 to 11 kilometers altitude (1.9 to 6.9 miles) averaged about 16 meters per second (36 miles per hour). At the base of the upper inversion a wind of 18 meters per second (40 miles per hour) was encountered; at 1,000 meters (3,280 feet) higher, the wind had increased to 32.5 m. p. s. (73 miles per hour). It continued at a high velocity up to 17,227 meters (10.7 miles) and then suddenly fell off to 6.8 m. p. s. (15 miles per hour). On another occasion, September 4, 1910, the enormous velocity of 42.2 meters per second (95 miles per hour) was found at the base of the upper inversion, and a still higher velocity of 48.5 meters per second (108 miles per hour) was encountered somewhat higher. Above this, however, the speed of the wind diminished to zero. The ascension of the 4th was in a cyclonic area, while that of the 7th was on the front of a strong anticyclone moving toward Huron from the British Northwest.

Another interesting conclusion that may be drawn from the sounding balloon ascensions, and also from observations on high mountain stations, is that the gyratory motion of the air characteristic of cyclones at the surface and for some distance above, does not extend far upward.¹ The movement of the upper layers, say above 10,000 meters (about 6 miles), as indicated from the drift of balloons that ascended to that altitude, appears to be in three main directions, viz: From west to east under normal conditions; from north to south, or northwest to southeast, when anticyclones dominate the weather; and from south to north, or southwest to northeast, when cyclones control the weather. Perhaps a better way of expressing the idea would be to say that the air currents are from some northerly direction on the east side of anticyclones, and from some southerly direction on the west side, and that under practically all other conditions the drift of the air in the very high levels is from west to east.

One of the interesting facts brought out in connection with ascensions in anticyclonic conditions is that the prevailing west winds of the middle latitudes, formerly believed to extend in an unbroken stratum from an altitude of about 5 kilometers (3.1 miles) to at least 16 kilometers (10 miles), are at times wholly suspended up to an altitude of 12 kilometers (7.5 miles). This fact is confirmed by observations made on Pikes Peak, Colo., as will be referred to later.

In 39 ascensions made under the direction of Prof. Rotch, in which the altitude reached was 6 miles or over, 11 balloons landed almost due east of their starting point, 22 landed south-southeast of their starting point, and 6 landed north-northeast of their starting point. It is not always, nor in the majority of cases, possible to tell from surface conditions the direction the balloon will take. Sometimes, however, there is fair agreement between surface pressures and upper wind drift. In general there is a northerly component in the winds in front and on the east side of an anticyclone, although numerous exceptions to this rule have been noted. One of the most marked exceptions was on November 25, 1904, when a balloon launched at St. Louis, Mo., traveled almost due east to near Louisville, Ky., although the pressure distribution at the surface clearly indicated northerly winds, and winds from that direction actually prevailed at the ground. This balloon, which reached an altitude of 11,500 meters (7.1 miles), and the one sent up the following day, moved with the enormous average velocity of 100 miles per hour. The second balloon, instead of moving toward the east, as did the one launched on the previous day, moved in a south-southeast direction and landed in western Tennessee. From this change in direction of the air currents it is evident that some temporary disturbance occurred in the atmosphere sufficient to modify greatly the eastward flow. What the disturbance was is not apparent from surface conditions. On the day that the balloon moved eastward there was a marked barometric depression over southern New England which had been stationary for about 24 hours. It may have been that the pressure in the higher levels over New England was falling on the day in question, and that the high eastward velocities encountered by the balloon were due to a pressure gradient that existed in the upper regions only. Hann showed more than 20 years ago that atmospheric pressure on mountain tops continues to fall for some time after the turn to rising pressure has set in over surrounding low levels.

The cause of the changes in the direction of the wind aloft is not always apparent from surface distribution of temperature and pressure. Primarily, the direction of the wind on the

¹ Bigelow reached the same conclusion from a study of cloud observations. See report Chief of Weather Bureau, 1896-1899, p. 424.

earth's surface is dependent on the temperature and pressure, the winds blowing from regions of low to regions of high temperature, and from regions of high to regions of low pressure. In the United States the strong winds of winter have regions of higher temperature on their right and in slightly higher latitudes. Unfortunately we are not able to study the temperature changes in the atmosphere as a whole, but only in a thin stratum next to the earth's surface. The upper winds in the United States are uniformly from the west, as has been fully demonstrated in the past. That these prevailing westerly winds are subject to important modifications is shown by the motion of the upper clouds and by the travel of sounding balloons.

Sounding-balloon ascensions have added very much to our knowledge of the temperature of the atmosphere up to heights of 15,000 meters (9.3 miles) and even higher, but the number of ascensions to heights above 9.3 miles is as yet small.

The vertical distribution of temperature in different sections of the same anticyclone is well shown by the simultaneous ascensions at Omaha, Nebr., and Indianapolis, Ind., on October 5, 1909. The two stations were, roughly speaking, within the influence of a great anticyclone, Indianapolis being nearest the center and under the higher pressure. The pressure at Indianapolis being higher than that at Omaha, we should expect lower surface temperature, as was actually found. But the low temperature of the air column over Indianapolis extended up to 2 kilometers (1.2 miles) only, at which level the air-column temperatures at the two places were reversed, the western station becoming the colder at that level, and steadily remaining so up to 14 kilometers (8.7 miles). During an earlier ascension at the two stations, on September 30, 1909, the surface weather conditions were quite different from those of October 5, the two stations being separated by a shallow anticyclone, with Indianapolis on the eastern edge and Omaha on the western edge. As in the first-named case, the eastern station was the colder up to about 3 kilometers (1.9 miles), but from that altitude up to about 12 kilometers (7.5 miles) the Omaha air column was the colder, the difference at the 12-kilometer level amounting to 16° C. (28.8° F.). Marked variations of the temperature at similar great altitudes have been recorded elsewhere, especially in England, where the temperature of the lower limit of the upper inversion has been found to differ on the same day as much as 20° C. (36° F.) at stations not more than 150 miles apart. The lowest temperature recorded in any of the Weather Bureau series of ascensions was -68.9° C. (-92° F.) at Huron, S. Dak., in September, 1910.

A study of observations at mountain stations in Colorado has shown that variations of temperature at the summit and at the base stations are nearly coincident in point of time, and are generally similarly directed, but that there are occasions when a fall in temperature sets in on the plains while the temperature on the mountain tops is still rising. In rare cases, also, the weather conditions on the mountain summits are controlled by causes that are not operative on the plains to the eastward. These studies have increased our knowledge of the effect of local topography in the warming and cooling of the air that is trapped between the mountain ranges. The important fact, revealed in connection with sounding-balloon ascensions, that the prevailing eastward drift of the atmosphere is wholly suspended during the prevalence of strong anticyclones is confirmed by a study of the records of wind movement over the high stations of eastern Colorado, at Corona and Pikes Peak. There can be no doubt that the local circulation in strong anticyclones up to the level of Pikes Peak is controlled by the anticyclone, though this is seemingly controverted by observations on the movement of high clouds in other parts of the United States.

The cirrus level in the United States is about 15 kilometers (9.3 miles) above sea level. Clouds in this level have been observed to move directly across the central areas of anticyclones, from west to east, which movement would not be possible did an easterly current prevail at that level. The wind movement over Pikes Peak, Colo., 4,301 meters (14,111 feet) above sea level is from the northeast when an anticyclone occupies the Great Basin to the westward, thus indicating the local control of the wind circulation by anticyclones at the level of Pikes Peak.

At Mount Weather, Va., the kite flights thus far made show that practically all easterly winds, except under special conditions, are shallow winds—that is, they are generally less than a mile in vertical extent.

SOLAR RADIATION.

Between July 16 and October 10, 1910, Prof. Kimball was engaged in a pyrhelometric survey of the region west of the Great Lakes and the Mississippi River, preliminary to the establishment of permanent observing stations. One of these, Madison, Wis., has been in operation since July 22, 1910, and others will be equipped as soon as apparatus already ordered is received. Pyrhelometric observations have been maintained throughout the year at Washington, D. C., and were resumed at Mount Weather in May.

The observations at the western stations showed radiation intensities in excess of the five-year averages for Washington, the excess ranging from 4 per cent in August, at Lincoln, Nebr., to 22 per cent in September, at Flagstaff, Ariz.

The most striking features of the year have been the high value of the radiation in February and March on the front of marked high barometric areas, and the low value during the protracted hot wave in May. At Madison, on February 23, and again on March 4, the radiation intensity with the sun shining through an air mass 1.5 (zenith distance of the sun 48°) was 1.67 calories per square centimeter per minute, which is as high as any measurement obtained by the Smithsonian Institution on Mount Wilson during the summers of 1905 and 1906. At Washington the corresponding maximum intensity during this period was 1.47 calories, or 12 per cent less than at Madison.

During the hot wave of May, 1911, the maximum intensity of solar radiation measured at Mount Weather, with the sun at zenith distance of 48° , was 1.20 calories per square centimeter per minute, and the average was little over 1 calory.

Measurements of the polarization of sky light, as well as other considerations, indicate that during protracted hot periods a very considerable percentage of the heat reaching the lower layers of the atmosphere is received diffusely from the sky. A Callendar recording pyrhelometer, capable of measuring the heat thus received, has been in continuous operation at Washington throughout the year; but quantitative results can not be given until this instrument has been carefully compared with a Marvin pyrhelometer, which will be done as soon as a new Callendar instrument provided with an improved form of recorder is received.

In response to the request of certain European investigators, a series of special observations on the positions of the neutral points of Arago and Babinet was made by Prof. Kimball while on field duty. These are now being continued at Mount Weather in connection with the measurements of the percentage of polarization of sky light, made as in previous years.

The five-year averages of solar radiation intensities for Washington were published in the Bulletin of the Mount Weather Observatory, volume 3, part 2. In response to a special request a résumé of that part of the above paper which treats of sky polarization, together with a summary of the polarization observations obtained while on field duty, was prepared by Prof. Kimball for publication in the Journal of the Franklin Institute for April, 1911.

The constants to equation 20, Bulletin of the Mount Weather Observatory, volume 1, part 4, are being recomputed from data recently furnished by the Smithsonian Institution. Prof. Humphrey's recent computation of the distribution of aqueous vapor in the atmosphere when the sky is cloudless will also be utilized. New tables for facilitating solar constant computations will be prepared from this revised equation. A copy of these tables has already been requested by the Argentina Meteorological Office.

It is believed that accurate determination of the intensity of direct solar radiation, of the quantity of heat received diffusely from the whole sky, and of the rate at which heat is lost at night, will not only be of value to climatologists generally, but will also be utilized by the weather forecaster. Especially urgent is the demand from biologists for accurate data relative to the quantity of heat received from the whole sky. The University of Wisconsin is now furnishing data of this character for use in connection with certain biological studies.

MOUNT WEATHER BULLETIN.

A full discussion of the upper-air observations made at Mount Weather and elsewhere, as well as of the progress made in other special lines of scientific work, will be found in the successive issues of the Bulletin of the Mount Weather Observatory, which, it may be remembered, is devoted to the results obtained from aerial investigations as well as from other special researches into obscure laws of atmospheric phenomena bearing on the physics and mechanics of the whole atmosphere. Although this publication is mostly filled by the results contributed by the staff of the observatory, yet, when space allows it, contributions of fundamental importance presented by other meteorologists are included in the Bulletin.

The completed Volume II, with its index, was issued in July, 1910, and the completed Volume III, with its index, in July, 1911. The second part of Volume IV was sent to the printer in June of the present year.

FORECASTS AND WARNINGS.

The work of forecasting daily weather and temperature changes, storms, cold and warm waves, and frosts—the primary duty of the Weather Bureau—received the careful attention of the corps of forecasters throughout the year. No important meteorological change occurred without notice having been given well in advance.

Storm warnings to Lake, seacoast, and West Indian stations, and frost warnings for the sugar, trucking, tobacco, fruit, and cranberry regions were issued whenever conditions justified. These warnings were successful. Particular attention was given to the hurricanes of September and October, 1910, and a number of testimonials commending the work of the bureau in connection therewith were received. The warnings of the approach of cold waves resulted in a saving of growing crops and prevented injury to many shipments of perishable goods and to farm stock. Daily forecasts of probable wind and weather conditions off the Atlantic coast, eastward to the Grand Banks, were issued for the guidance of trans-Atlantic steamships.

HURRICANES OF THE YEAR.

West Indian hurricane of September, 1910.—This storm was first detected near San Juan, P. R., on September 6. It moved in a west-northwest direction, and by the morning of September 14 had reached the Texas coast near the mouth of the Rio Grande. Warnings were issued regularly until the storm disappeared. No loss of life and no wrecks occurred, nor was much damage done except on the north coast east of San Juan. The following editorial from the New Orleans Daily Picayune of September 15, 1910, has reference to this storm:

Notwithstanding the threatening weather which prevailed over southern Louisiana Tuesday, no damage was experienced, as the storm passed southward some distance out in the Gulf. However, sugar and rice planters were greatly alarmed. A severe wind storm at this season of the year would lodge the cane and would result in great injury to the rice crop, because few of the rice planters are prepared to flood their rice fields to such an extent as would prevent great damage from high winds. The excellent advices issued from day to day by the United States Weather Bureau in connection with this storm from the date of the inception has been in keeping with its past record. Tuesday morning, long before the storm was being felt at any coast station, shipping, commercial, and agricultural interests along the Gulf coast were advised that the storm was some distance out in the Gulf, southeast of the Texas coast, and was moving in a northwesterly direction toward the mouth of the Rio Grande. Yesterday morning the storm was moving inland, with its center near the mouth of the Rio Grande, and high winds and high tides had occurred along the Texas coast as though conditions had been made to fit the Weather Bureau's warnings. The value of a service which can foretell where such storms will strike the coast, as was done in this case, can not be estimated.

West Indian hurricane of October, 1910.—Attempts made in former years to get reports by wireless from vessels plying in the Gulf of Mexico and the Caribbean Sea met with small success, owing to the small range of the transmitting vessels. This past year, however, a concerted effort was again made to secure these reports, this time with gratifying results. A number of valuable reports were received from vessels in the region of tropical storms, that from the United Fruit Co.'s steamship *Abangarez*, latitude 14° 20' N., and longitude 81° 51' W., received on the evening of October 12, being particularly helpful in locating the most notable hurricane

of the season, which struck Key West, Fla., on the afternoon of the 17th. Although the pressure had been below normal for several days previously, this wireless report was the first definite information the Weather Bureau had of the severe storm in the Caribbean. In conjunction with the reports from the land stations, it enabled the forecaster to locate the center of the disturbance with a degree of accuracy which could not have been done through the use of observations made at land stations alone. By the morning of the 13th the hurricane center was about 200 miles south-southwest of Habana, Cuba, apparently moving northwestward. The storm passed to the westward of Habana on the afternoon of the 14th and over Key West on the afternoon of the 17th. It then moved in a northerly direction to southern Georgia, where it took a course more to the east, and passed off the Atlantic coast near Cape Hatteras on the 20th. During the progress of this storm timely advices regarding its location, intensity, and probable direction of movement were disseminated by every available means, including wireless, to interests liable to be affected by winds and tides. The following are among the testimonials received as to the value of the service rendered by the bureau in its advance notices of this storm:

From C. W. Jungen, manager of the Atlantic Steamship Lines of the Southern Pacific Co.:

I beg to express to you the appreciation of the management of this company for the valuable service rendered by the Weather Bureau during the tropical storm in the Gulf of Mexico and the Atlantic Ocean on or about the 13th to 19th instant, which overtook several of the company's ships in that vicinity. These bulletins were of great assistance to the masters of our ships in preserving the company's property and preventing the loss of life at sea.

From Senator Duncan U. Fletcher, of Florida:

Permit me to say that I have always appreciated the value of the Weather Bureau to the country, and the service rendered before and during the recent hurricane has further emphasized its indispensability to Florida. * * *

From J. R. Brown, president of the Florida East Coast Railway, to the official in charge of the local Weather Bureau office at Jacksonville, Fla.:

I am pleased to express our appreciation of the excellent service rendered by the Weather Bureau through your office during the past season, and the frequent advisory warnings sent down the line during the approach of the recent hurricane. The information thus furnished, I am advised, enabled us to get practically all our large fleet of floating equipment into hurricane harbors, thus making our loss in this respect comparatively light. We were also enabled to get our scattered forces of about 1,500 men into safe locations, so that there was no loss of life. By use of hurricane flags, rockets, and signal whistles we were enabled to warn the inhabitants of the keys, the fishing fleet in the locality of our work, as also two steamships anchored at Knights Key Harbor. Had we depended on the barometer we would not have been able to secure one-half of our floating plant before the storm was upon us.

From an editorial in the Tampa (Fla.) Morning News of October 20:

That there was no loss of life during the storm is largely due to the efficiency of the Weather Bureau in warning mariners.

From an editorial in the Vicksburg (Miss.) Herald of October 19:

There can be no question that a grave calamity has befallen Cuba and the Florida Peninsula as well. The one gratifying circumstance in it is the proof furnished of the infinite value of the Weather Bureau warnings, which gave ample time for all shipping to seek shelter in safe anchorage.

WEEKLY FORECASTS.

Forecasts of a general character for a week in advance, based on the atmospheric conditions exhibited by the daily chart of the Northern Hemisphere, have been issued on each Sunday throughout the year, except during the last two weeks of June, 1911, and special forecasts announcing important weather and temperature changes were made when occasion called for them. These forecasts have in the main proved reasonably successful, and the demand for them on the part of the press and others has steadily increased.

The weekly forecast issued on August 21, 1910, attracted special attention. In this forecast it was announced that a cool wave would pass over the country the latter part of the ensuing week. This cool wave gave the lowest temperatures of record for August in the northern Rocky Mountain region and the Plain States, and snow fell in Wyoming. It caused frosts in Idaho, Montana, Wyoming, Colorado, Nebraska, North Dakota, Minnesota, and Wisconsin, and light frosts at exposed places in New England and New York. The following favorable

comments on the part of the press, subsequent to the issue of the forecast, indicate the wide-spread interest taken in its successful fulfillment:

Oklahoma (Okla.) Oklahoman:

The day was a great triumph for the weather man. The prophesy was on long time, as weather forecasts go. It was made last Sunday. It was accurate to the hour, and to distance, direction, and temperature; geographically correct—absolutely correct. The Sunday forecast said that the wave would start in the Northwestern States and sweep east across the country. For Oklahoma and vicinity Thursday was the day set for the cold spell, and the cold spell came. No one but the doubter was disappointed.

Louisville (Ky.) Courier-Journal:

The present remarkably cool weather for this season of the year was accurately forecast by the United States Weather Bureau one week in advance.

Springfield (Mo.) Republican:

The Weather Bureau at Washington predicted last Sunday that a cool wave would strike this vicinity about the middle of the week, didn't it? And it said that the cool wave would be preceded by very hot weather. * * * The long-distance forecasting department of the Washington Weather Bureau scored one of the biggest tallies in its history Thursday morning when the cold wave came along

Boston (Mass.) Transcript:

The official forecaster's reputation as a successful long-range forecaster is better than ever in this vicinity. His cool wave for the East, predicted a week ago, arrived last night on schedule time, and the temperature consequently was "in the dumps" overnight. There were no frosts, to be sure, but the drop in temperature was sufficient to justify the "cool-wave" forecast.

Charlotte (N. C.) Observer:

The Observer on last Monday morning published a weather prediction issued from Washington, D. C., stating that chilly blasts would sweep across the country during the week. * * * This forecast was read by many, but most people straightway dismissed it from their minds. During the week, however, there followed such a remarkably accurate verification of the prediction made days before the cold started that the public sat up and took notice. * * * It only affords another striking illustration of the remarkable progress being made in the development of the weather science, and shows also what an excellent and highly valuable service is being given by the Government in this department. * * * The wave advanced true to form and reached the Atlantic by Saturday morning. It pays to listen to the weather man.

INTERNATIONAL WEATHER CHART.

A chart of the Northern Hemisphere is prepared each morning in the forecast map room of the Weather Bureau at Washington, based on reports from a number of stations selected to show, in a general way, the fluctuations of barometric pressure in the great centers of action. The most northerly stations from which reports are received are Nome, Tanana, and Eagle, in Alaska, at about latitude 65° N., while the most southerly is Manila, in the Philippine Archipelago, at approximately latitude 14° N.

Somewhat meager data from five Alaskan stations give a fair indication of barometric changes in that region, but when it is considered that the forecasts for a week in advance are based chiefly on the Alaskan reports, it would appear that a greater number of stations, not so widely separated, should be available to give a more complete survey of the atmospheric changes taking place in that area. Action has been taken looking to the establishment in the near future of a station on the Aleutian Islands at Dutch Harbor. Reports from this station will give valuable information concerning storms that pass from the eastern coast of Asia north-eastward and finally reach the United States. At present storms of this type cross the Pacific Ocean south of latitude 58° N. and strike the North American continent without warning or indication of their approach. With a station in operation at Dutch Harbor, few, if any, storms should reach the continent without their coming first being indicated by some of the Alaskan reports.

During the latter part of the past year reports were received regularly from Nemuro, Japan, and from Shanghai, China. These reports have proved of much value in accounting for the development of disturbances in our Northwest.

Summarized in a general way, a study of the international weather map furnishes indications of weather conditions in the United States several days in advance, somewhat as follows:

(1) Barometer rising and above normal over the Asiatic high area; barometer falling and below normal in the Bering Sea low area, and rising over the Azores and falling over Iceland, indicates a period of mild weather over the northern and eastern districts of the United States.

(2) Barometer falling and below normal over Bering Sea, and falling over the Azores and rising over Iceland, indicates a period of cool weather generally east of the Rocky Mountains.

(3) When the great continental high pressure area extends over west-central Europe and the British Isles it checks the movement of north Atlantic storms, and finally affects the rate of progression of high and low pressure areas over the United States. The usual rate of progression of high and low pressure areas over the United States is resumed five or six days after a return to normal conditions has set in over west-central Europe.

(4) In its normal distribution atmospheric pressure is high over the eastern, and relatively low over the northern and northwestern portions of Europe. Under these conditions the progression of storms over the United States is normal. When, however, this arrangement of pressure is reversed or disturbed, abnormal storm movements or features will be observed.

(5) At times when the air masses up over western Asia and continental Europe the advance of the Atlantic storms is checked, low pressure prevails for several days over the British Isles, high pressure builds up over the Atlantic Ocean, and the eastward progress of high and low pressure areas over the United States is retarded. This retardation of highs and lows over the United States is not interrupted until about five or six days after normal pressure conditions are resumed over western Europe.

(6) A slight shifting to the westward of the summer north Atlantic high pressure area gives temperatures above the normal and generally dry weather over eastern portions of the United States. If the center of this high pressure area shifts to the westward, south of its usual position as regards latitude, the heat is general from the Gulf of Mexico to Canada. If, however, the center occupies a more northerly latitude in its westward position, the heat area is confined to the more northerly districts of the United States, while the south Atlantic districts receive the benefits of the easterly winds from the ocean.

(7) When the Atlantic high pressure area occupies a position east of its normal location over the Atlantic Ocean, or exhibits pressure below normal, cool weather for the season, or at least variable temperature, is experienced over the eastern portions of the United States.

(8) As a general proposition, the north Atlantic high pressure area controls to a great degree not only the summer weather of the greater part of the United States but also the course and character of the West Indian hurricanes.

FROST PROTECTION WORK.

Special attention was given during the year to warnings for the benefit of shippers and growers of perishable products. Forecasts were sent out daily from a number of our larger stations, giving the probable temperatures likely to be encountered by perishable goods shipped in any direction.

Substations were established in the cranberry marshes of Massachusetts, in the citrus fruit districts of Florida, and in some of the orchard districts of Washington, Oregon, Idaho, Utah, Colorado, and California. During the frost season special reports are sent from these substations to the forecast center, where they are used in the preparation of a special forecast in the afternoon or early evening, supplementing the regular morning forecast. By this means the growers are enabled to take such precautionary measures as are available to protect their crops. In Washington, Oregon, Idaho, Utah, Florida, and California the fruit growers smudge and fire when necessary, while in the cranberry regions the cranberry growers flood their bogs to prevent injury. In this line of work it has been the policy to furnish the individual with information particularly applicable to his orchard rather than to have him depend upon a general forecast that would apply to a large section but could not accurately cover the section

in detail. Effort has also been made to encourage the growers to organize and employ protective measures in saving their crops from frosts and freezes. Thus far the work has been successful beyond expectation. One example of the fruits of this work is instanced by a letter from Mr. Thomas F. Mahoney, secretary of the Chamber of Commerce of Grand Junction, which was published in the Denver News of May 18, 1911. In this letter it is claimed that the prompt action taken by the orchardists of Colorado's western slope on the receipt of the warnings of a severe freeze last spring resulted in the saving of \$2,500,000.

The following is from a letter written by the secretary of the Yakima Commercial Club, North Yakima, Wash., regarding the work of the past year in that section:

The timely warnings of danger given did much in the way of prevention of loss from frost, and it is the general belief that, with better preparation on the part of the fruit growers another season, still greater benefits may be derived from the frost service of the bureau.

The president of the Provo Commercial Club, Provo, Utah, also testifies to the work of the bureau in that vicinity during the frost season of 1911, as follows:

Now that the frost period for this season is over and while the matter is still fresh in our minds, we wish to express to you our appreciation of your efforts in our behalf. There is no doubt but what your Weather Bureau has been of service to the fruit grower this season, and, taken together with the keen personal interest you yourself have shown in the all-important question of "Saving the fruit," we are convinced that with the further aid of the Agricultural Department this question will be solved.

RIVER AND FLOOD DIVISION.

RIVER AND FLOOD SERVICE.

Two new river districts were created during the year, with headquarters at Indianapolis, Ind., and Iola, Kans., making a total of 56 river districts in operation at the end of the year. The new districts were established for the purpose of securing increased efficiency of service, and are maintained with little increased cost of operation, as both previously formed portions of other districts. The Indianapolis district comprises the watershed of the Wabash River above the mouth of and including the White River, formerly a portion of the Cairo district. The Iola district comprises that portion of the watershed of the Neosho River from the headwaters to Neosho Rapids, Kans., formerly a portion of the Fort Smith district.

Nine new river stations were established during the year, and nine were discontinued, excluding those at Dayton, Ohio, and Fort Wayne, Ind., where regular Weather Bureau stations were opened, with the river work as a portion of their duties. Four rainfall stations were also discontinued.

At the end of the year river observations taken at regular Weather Bureau, paid, and cooperative stations made a total of 601 stations from which reports are available for the benefit of those interested in the rivers of the country.

No automatic river gauges were installed during the year, but substantial inclined concrete gauges were installed at Portsmouth, Ohio, and Mount Vernon, Ind.

Owing to a large deficiency in the precipitation of the year over a considerable portion of the country, there was an absence of great floods, except in California, where, during February and March, heavy winter snows and rains combined to cause floods, with resultant damage, estimated at \$1,750,000. In July and again in October the smaller tributaries of the Ohio River were in flood as a result of heavy local rains. The damage to crops and other interests amounted to about \$5,500,000.

By informal agreement with the Forest Service of the Department of Agriculture and the United States Reclamation Service of the Interior Department, the Weather Bureau was designated to ascertain and publish in the Monthly Weather Review the losses by floods in the United States. A summary of this character indicates that the losses during the year were about \$7,700,000, of which more than three-fourths fell upon the farmers. The value of property saved through the warnings of the Weather Bureau was estimated at \$1,047,000.

The warnings issued for the floods were of value. The great disproportion between the losses and the value of property saved is due to the fact that three-fourths of the former were on crops that warnings could not have saved.

From present indications the new work contemplated during the coming year will not be extensive. On July 1, 1911, river service will be extended over the Neuse River of North Carolina, and river stations opened at Neuse and Smithfield, N. C. The station at Edisto, S. C., will be reopened, and a new station established at a suitable location on the Combahee River for the benefit of the rice planters. A few additional stations will probably be needed along the lower Arkansas River and its larger tributaries. In the extreme West it is proposed to divide the district of California, establishing a new district for the San Joaquin River, with headquarters at Fresno, Cal. This river is now under the supervision of the local office at Sacramento, and the change will result in more prompt service in time of flood. It is also proposed to establish, if possible, a new district at Los Angeles, Cal., for the purpose of issuing flood warnings for the smaller streams of that section.

Steady progress has been made in the preparation of forecast schemes for the Ohio River and its larger tributaries. Schemes have been completed for the Cumberland and Tennessee Rivers, and one for the Wabash River is well underway. This will complete the scheme for the entire Ohio River watershed, except that portion of the main stream between Mount Vernon, Ind., and the mouth, which it is hoped also to finish within a few months. Considerable work has also been done on schemes for the Savannah and Santee River systems.

MOUNTAIN SNOWFALL WORK.

During the last two years the Weather Bureau has made systematic measurements of the amount of snowfall in the mountain regions of the West for the purpose of determining as accurately as possible the amount of water available for agricultural and commercial interests during the coming spring and summer seasons. It is hardly necessary to comment on the importance of this work, which thus far has been largely experimental on account of uncertainties as to the instrumental equipment required and the proper method of determining the water equivalent of the snowfall. The snow bins and snow platforms installed some time ago have not proved entirely satisfactory. Prof. Marvin, of the Instrument Division, has been engaged in the work of devising improvements, and it is hoped that the snowfall stations can be supplied with better apparatus within a year or two. In the meantime no new stations will be opened. During the year 61 stations were closed, experience having demonstrated that they were no longer of importance. At the end of the year there were 281 mountain snowfall stations in operation.

In connection with the study of snowfall and its consequent run-off, a systematic snow survey was begun in the watershed of Maple Creek, near Springville, Utah. While the work was of an experimental nature, it has an immediate effect on the owners of 227 tracts of land that are irrigated by the melted snow waters from the Maple Creek watershed, and it is expected that the experience obtained will be valuable in connection with the future study of the general problem. Thus far the comparatively small outlay in experimental work has been well expended. A report of the work carried on during the spring of 1911 was prepared by Messrs. A. H. Thiessen and J. C. Alter of the local office of the Weather Bureau at Salt Lake City, Utah, and published in the Monthly Weather Review for April, 1911. About 2,000 soundings and 277 measurements of the depth and density of the snow were made with the density apparatus devised by Prof. Marvin. The final results showed an average snow depth of 36 inches, with an average water equivalent of 11.5 inches, or 32 per cent, making 3,833 acre-feet of water, or enough to spread a layer of water 14 inches in depth over all the land irrigated by the stream. This is the first attempt at a definite measure of the water equivalent of accumulated snowfall, the great value of which to irrigation farmers and those interested in water power is apparent. It is thought that with two years' more work in the Maple Creek watershed, sufficient observations will have been obtained to permit of accurate forecasts of water supply from the winter snowfall. The

system can also be extended to other and larger projects, and the work will be limited only by the amount of funds available for the purpose. The report on the preliminary campaign in the Maple Creek watershed has brought many expressions of commendation from farmers and hydraulic engineers.

EFFECTS OF FORESTS ON CLIMATE AND STREAM FLOW.

As stated in my last report, the Weather Bureau and the Forest Service, with the permission of the Secretary of Agriculture, are cooperating in an exhaustive study of the entire question of forest effects upon climate and stream flow. It is believed that the data to be secured will be of such a character as to shed valuable light upon the subject. The experiment station at Wagon Wheel Gap, Colo., established for the purpose of this investigation, is now on a firm basis, and a complete series of observations has been made during the last eight months. Cooperative meteorological stations are also maintained in the Coconino National Forest in Arizona and in the Fremont National Forest in Colorado, data from which will be available for study and comparison in connection with the records at Wagon Wheel Gap. However, it should be well understood that no results obtained in this semiarid region would be of any value as a criterion for determining problems in connection with run-off that obtain in the humid regions of the East. It is hoped that in course of time an experimental area may be secured and the necessary plant installed in both the Allegheny and White Mountain regions.

DIVISION OF OBSERVATIONS AND REPORTS.

The new "Division of Observations and Reports," formed during the year, has supervision of the collection and distribution of telegraphic meteorological reports, the distribution of forecasts and warnings, the issue of station maps and bulletins, and the marine work of the bureau.

At the close of the year there were in operation 197 regular observing stations. The station at Jupiter, Fla., was discontinued during the year and one established at Miami, Fla., in its place. New stations were also established at Fort Wayne, Ind., and Dayton, Ohio. Of these regular stations 164 take two observations daily, at 8 a. m. and 8 p. m.; 25 take one observation daily at 8 a. m.; and 8 take one observation daily at 8 p. m., 75th meridian time. These observations are telegraphed to Washington and over circuits to other stations for use in making the daily maps for forecast purposes and the daily weather maps and commercial maps for issue to the public.

The United States is divided into six forecast districts, with centers at Washington, D. C.; Chicago; Denver; Portland, Oreg.; San Francisco; and New Orleans, at which places the forecasts are made and telegraphed to distributing centers. From these points they are furnished to the public by telegraph, telephone, and postal card.

SPECIAL METEOROLOGICAL STATIONS.

There are 50 special meteorological stations in operation. Of these, 19 are for use in the general forecast work of the service and in making special frost predictions for the orchards of Oregon, Washington, Utah, Idaho, and Colorado; 8 for use in frost predictions for the cranberry interests of Massachusetts, Wisconsin, and New Jersey; 9 for use in the special predictions for the vineyard and citrus fruit interests of California and Florida; 8 in the West Indies rendering reports from July 1 to November 15 for use in the special hurricane forecasts; and 6 in Alaska for use in the general forecast work of the service.

Under the Portland, Oreg., center, four important fruit districts have been grouped—at Lewiston, Idaho; Boise, Idaho; North Yakima, Wash.; and in the Rogue River Valley of Oregon. In the Lewiston district the observing stations are located in the Lewiston orchard district and across the Snake River at Clarkston, Wash., each station being the center of its respective district of orchard bench land. The Boise district has an observer at Meridian, who cooperates with the Boise station. In addition to the special observer at North Yakima, a regular trained

observer was put in charge for the fruit season, and arrangements were made to receive reports from cooperating stations at Wapato, Zillah, Sunnyside, Moxee, and Natchez. In the Rogue River Valley a special station was established at Medford under the charge of a trained fruit and orchard superintendent; and, in addition to the old observing stations at Siskiyou and Marshfield, cooperating stations were located at Grants Pass, Ashland, and Jacksonville.

The Salt Lake City office is in charge of the frost-warning service around Provo, Utah, while the fruit region of the Grand River Valley of Colorado receives warnings from Grand Junction. In the citrus fruit region around Los Angeles the observer at that station is in charge of the frost warnings, with special observers at Pasadena, Redlands, Riverside, San Bernardino, and Santa Barbara. San Francisco sends warnings to the fruit interests of northern California, with an observer reporting from Paso Robles.

In Florida, Jacksonville issues warnings for the fruit and vegetable industries, with special observers stationed at Bartow, Eustis, Titusville, and Gainesville. Arrangements are being made to investigate the fruit conditions of North Carolina.

Frost warnings are issued for the cranberry districts of Massachusetts, New Jersey, and Wisconsin, the most important cranberry-producing section being around Cape Cod, Mass. Arrangements were made during the season for more complete reports in that section by changing the station at New Wareham to the State bog at East Wareham, making the latter place the observation center. The instruments at South Carver were moved to a better location, and new stations were established at Halifax and Marstons Mills. Observations have been continued with good results in New Jersey. In Wisconsin the old station at Berlin was reestablished and conditions improved for observation.

FORECAST DISTRIBUTION.

The appropriation for this branch of the service was inadequate to meet the many demands for daily forecasts and special warnings during the past year. While the decrease in the number of places receiving the warnings at Government expense was 60, there was an increase of more than 500,000 in the number of telephone subscribers to whom the forecast was delivered by free telephone distribution owing to the very favorable arrangements entered into between the bureau and the various telephone and telegraph companies. By an arrangement between the Southern Bell Telephone & Telegraph Co. and the Weather Bureau, which goes into effect on July 1, 1911, this distribution by free telephone will be materially increased during the next fiscal year.

At the close of the year the number of places receiving forecasts at Government expense was 2,120, while by free telephone distribution the forecasts were available to 4,251,347 addresses.

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 Government by—				
	Forecasts and special warnings.	Special warnings only.	Emergency warnings.	Mail.	Rural delivery.	Telephone.	Railroad train service.	Railroad telegraph.
Alabama.....	30	2	136	1,496	690	13,961	0	66
Arizona.....	5	2	0	191	0	7,399	0	0
Arkansas.....	21	10	102	932	979	25,233	0	14
California.....	99	47	0	1,037	2,680	98,212	0	0
Colorado.....	8	62	38	1,044	718	45,713	0	0
Connecticut.....	10	0	48	2,333	50	88,626	138	5
Delaware.....	8	1	16	152	296	4,865	0	27
District of Columbia.....	0	0	0	843	0	20,000	0	1
Florida.....	35	114	52	1,392	230	8,198	0	58
Georgia.....	33	32	233	1,839	1,002	34,318	0	149
Idaho.....	15	1	0	871	200	13,975	0	0
Illinois.....	114	6	408	3,547	2,498	372,779	0	17
Indiana.....	110	1	201	2,808	1,454	188,315	0	71
Iowa.....	144	7	335	2,727	4,472	121,770	25	0
Kansas.....	88	2	175	727	2,080	239,392	0	51
Kentucky.....	45	31	96	2,528	788	54,516	0	1
Louisiana.....	79	20	49	940	30	18,226	0	18
Maine.....	14	1	40	1,074	951	44,140	0	0
Maryland.....	18	4	46	1,984	571	28,950	0	76
Massachusetts.....	16	10	58	3,270	170	204,047	77	258
Michigan.....	68	4	316	5,419	600	225,433	206	387
Minnesota.....	74	3	171	1,944	3,885	159,599	0	13
Mississippi.....	47	10	59	1,552	1,041	26,166	0	6
Missouri.....	32	3	236	4,686	2,025	211,985	0	52
Montana.....	13	20	13	425	0	14,441	0	0
Nebraska.....	72	4	205	1,999	408	175,262	0	0
Nevada.....	6	0	0	84	0	646	0	0
New Hampshire.....	15	1	32	922	1,446	29,622	15	14
New Jersey.....	24	16	109	1,308	100	27,695	0	176
New Mexico.....	11	1	0	78	0	4,925	0	8
New York.....	118	49	346	7,491	1,794	258,826	197	176
North Carolina.....	74	15	163	1,624	2,096	27,819	0	0
North Dakota.....	24	0	93	292	1,659	20,919	0	0
Ohio.....	82	172	237	7,227	321	469,682	24	34
Oklahoma.....	32	2	16	637	591	6,624	0	130
Oregon.....	10	5	0	508	175	16,178	0	0
Pennsylvania.....	83	10	315	5,312	1,718	482,584	1	452
Rhode Island.....	2	0	11	759	0	1,400	13	18
South Carolina.....	29	9	105	1,040	576	10,679	0	38
South Dakota.....	56	9	70	840	115	52,235	0	0
Tennessee.....	48	5	284	1,850	1,055	37,909	0	3
Texas.....	78	54	227	1,663	1,188	168,406	0	63
Utah.....	6	24	0	324	661	12,025	0	0
Vermont.....	12	1	45	821	467	27,720	12	5
Virginia.....	53	8	84	1,578	1,393	39,314	101	72
Washington.....	20	3	0	1,072	1,091	3,560	0	0
West Virginia.....	26	8	53	968	0	38,320	0	17
Wisconsin.....	106	7	281	2,685	2,072	61,818	0	0
Wyoming.....	7	1	8	105	0	6,930	0	0
Total.....	2,120	797	5,512	86,948	46,336	4,251,347	809	2,376

STORM-WARNING DISPLAY STATIONS.

Fifteen storm-warning display stations were established at points on the sea and Lake coasts during the year, and six were discontinued. Arrangements have been made to begin the display of storm warnings at Seddon Island—Tampa, Fla., section—as soon as a tower can be erected. As is usual, the display of warnings on the Lakes was discontinued for the winter on December 6, and resumed April 10. Inspection trips were made to 124 storm-warning stations.

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

District 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.....	12	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.....	7	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
Grand Rapids, Mich. ¹	0	0	1	0
Green Bay, Wis. ¹	0	0	1	0
Houghton, Mich.....	2	2	1	0
Jacksonville, Fla.....	8	12	1	0
Key West, Fla.....	0	2	2	1
Los Angeles, Cal.....	1	3	0	0
Marquette, Mich.....	1	0	1	0
Milwaukee, Wis.....	9	0	1	0
Mobile, Ala.....	4	4	1	0
Nantucket, Mass. ¹	0	0	1	0
New Haven, Conn.....	2	0	1	0
New Orleans, La.....	2	1	2	0
New York, N. Y.....	5	4	1	2
Norfolk, Va.....	6	4	4	1
Oswego, N. Y. ¹	0	0	1	0
Pensacola, Fla.....	3	0	1	0
Philadelphia, Pa.....	3	0	1	0
Port Huron, Mich.....	3	1	1	0
Portland, Me.....	3	2	1	0
Portland, Oreg.....	9	3	7	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	6	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	8	1	0
Toledo, Ohio ¹	0	0	1	0
Wilmington, N. C.....	3	2	1	0
Total.....	182	80	61	16

¹ Not centers.

STATION MAPS AND BULLETINS.

The policy of discontinuing the station weather maps wherever the newspapers would publish the commercial maps, adopted in 1910, was continued during the past year, and has resulted in the maps being published at 74 places in 132 newspapers, having a total daily circulation of 2,898,000. At first there was some opposition to the commercial map, but this gradually subsided as the vast enlargement of the service thus rendered through the newspapers came to be recognized. A few comparisons of the distribution obtained through the press with that possible through the maps issued at the stations are sufficiently convincing on this point. New York issues daily 1,013 weather maps as compared to 191,000 commercial

maps; Chicago, daily weather maps 1,171, commercial maps 507,449; Philadelphia, daily weather maps 375, commercial maps 140,000. While the publication of the commercial maps has been substituted at 54 stations, the daily weather maps are still printed at 58 stations, the total daily issue being 15,000.

Daily weather bulletins (Form No. 1038) were published at nine stations, the daily issue being 467.

Glass weather maps are changed daily at 42 stations, having a total number of 53 maps. These maps are displayed at boards of trade, cotton exchanges, maritime exchanges, at the stations proper, in the Washington Terminal Railroad Station, and in the Senate and the House of Representatives, in Washington, D. C.

MARINE WORK.

The field covered by this section of the bureau's activities includes the meteorological work of the principal oceans of the world and of the Great Lakes of the United States, the supervision of the wireless-telegraph weather service, and the work of the vessel-reporting service.

METEOROLOGICAL CHARTS.

The meteorological work consists in the collection, compilation, and study of ocean and lake meteorological data, and the publication and distribution of the data thus obtained, by means of the marine meteorological charts of the Weather Bureau, which are distributed to mariners, maritime exchanges, and meteorological institutions throughout the world. The meteorological information collected in this manner is also furnished to the Hydrographic Office of the Navy Department, and forms the essential features of the pilot charts published and distributed by that office.

The publication of a series of monthly charts for the Indian Ocean and the Great Lakes will be completed with the issue for December, 1911, and with the others will constitute the first complete set of meteorological charts covering the principal oceans of the world and the Great Lakes of the United States.

The charts for the north Atlantic, north Pacific, and Indian Oceans, and for the Great Lakes, are published monthly, and those for the south Atlantic and south Pacific Oceans quarterly. They are mailed 40 days in advance of the month or quarter for which the chart is an issue.

The north Atlantic charts contain on their face the normals of pressure and temperature; tables for reducing barometer observations for comparison with data on the charts; wind roses, with percentages of gales and calms for each 5-degree square of latitude and longitude; storm tracks of recent years; fog areas and percentages of days with fog; trade-wind limits; sailing routes; magnetic variation lines; location of wireless telegraph stations; tables of equator crossings; a statement of the average conditions of wind and weather; storm-warning signals of the United States, Canada, Mexico, Great Britain, Ireland, Germany, Holland, France, and Portugal; and the United States submarine distinguishing and warning flags. On the reverse side appear as regular features articles on the temperatures of the air and the water surface, and charts of the currents of the north Atlantic and north Pacific Oceans. Special articles have been printed on West Indian hurricanes, waterspouts, cyclones and anticyclones, weather lore of the sea, fog and fog signals, and ocean currents.

The south Atlantic charts contain much the same general information as that appearing on the charts for the north Atlantic Ocean, slight modifications, such as the omission of fog areas and the addition of storm-warning signals for ports on the Indian coast, being the chief differing features. The same general similarity and minor differences are found in the charts for the north Pacific, south Pacific, and Indian Oceans.

The fog areas and the percentage of days with fog, as now shown on the charts for the north Pacific and Indian Oceans and the Great Lakes, have been pronounced particularly valuable features by those using the charts. Mr. H. C. Thompson, engineer in charge of the

survey for a short-line railway and steamship route to Europe, states that the fog data for the north Atlantic chart as revised by the bureau have been an invaluable aid to his project. He has interested himself in an endeavor to secure fog data from Canadian lighthouses for incorporation in an article to be published on fog of the north Atlantic Ocean. The English Meteorological Office, on its chart of the north Atlantic, continues to make use of the fog data and shading published by the Weather Bureau.

A chart has been prepared, and will be published at an early date, showing the average direction and rate of movement of storm centers in each $2\frac{1}{2}$ -degree square of latitude and longitude in West Indian and Gulf waters.

The charts for the Great Lakes were begun with the January number of this year. They contain on their face normals of pressure and temperature; barometer reduction tables; wind roses; storm tracks; fog areas and percentages of days with fog; arrows showing direction of lake currents; magnetic variation lines; location of wireless telegraph stations; a statement of the average conditions of wind and weather; percentages of days with rain, snow, fog, gales, and calms at lake stations; dates of opening and closing of ports on account of ice; wind barometer indications for the Great Lakes; storm-warning signals of the United States, Great Britain, Ireland, and Canada; a table of verifying wind velocities at Weather Bureau stations; and the United States submarine distinguishing and warning flags. The reverse side presents monthly tables of wind velocities; seasonal tables of snow and ice; lists of lake wireless telegraph stations, with call letters for each; and lists of submarine signal-bell stations, with code.

As evidence of the general appreciation in which the charts are held, the following are quoted from letters received during the year:

From the American consul at Dundee, Scotland:

I take this opportunity to say that recently the captain of one of the Clan liners, then in this port, called at this office on receiving a letter sending him a supply of these weather report forms and ocean charts, when he expressed his thanks to the American Government for the courtesy in supplying these charts, and desired to say how much they were appreciated by British shipmasters; at the same time speaking in terms of the highest commendation of the system adopted for collecting materials for keeping the charts fully up to date, to which he would give his cordial cooperation.

From Capt. T. W. Pickard, of the British S. S. *Ningpo*:

I am of the opinion that your publications are of extreme value to seafarers generally, and I think that we should all cooperate with you in the good work.

Additions have been made to the useful information contained in the calendars for the Atlantic and Pacific Oceans, and these have been distributed to all cooperating officials. The large chart, formerly issued, showing the classification of clouds, has been put in book form, making it more convenient for use and increasing its durability. It contains full descriptive matter and illustrative plates, with a view to aiding observers in the identification of the several cloud forms according to the International System of Classification. A new and enlarged edition of the Instructions to Marine Meteorological Observers, with a complete index, was issued during the year. The form used in reporting observations has been remodeled into a more light, compact, and convenient form. Its reduction in bulk will also effect a saving in postage.

COLLECTION OF METEOROLOGICAL DATA.

The weather reports from vessels are mailed to the Washington office by the observers or are forwarded through the local offices of the Weather Bureau. In foreign ports they are usually forwarded through the American consular offices. The American consuls at 154 of the principal foreign ports have assisted the bureau in the collection of marine meteorological data from vessels, and in the distribution of meteorological forms, charts, and pamphlets. During the year 2,416 cooperating observers forwarded 10,669 books of weather reports.

The Weather Bureau maintains marine centers at its principal seacoast and lake stations, and an official at the center visits vessels in the harbor for the purpose of comparing barometers, securing observers, and collecting marine meteorological observations. Officers and observers

of cooperating vessels visit the offices of marine centers for information, comparison of instruments, and supplies of meteorological charts and forms. These offices are equipped with standard instruments, marine instrument shelters, textbooks, and other accessories to this work. Assistants are assigned to special duty at New York, Boston, Philadelphia, and Seattle in connection with this work. The official at Seattle has supervision of the meteorological work of all vessels entering Puget Sound.

The bureau is indebted to the Weather Bureau of the Philippine Islands, and to the Hong-kong Observatory, for storm tracks of the western portion of the north Pacific Ocean; and to Prof. Froc, of the Zi-ka-wei Observatory (Père H. Gauthier, compiler), for approximate tracks of storms of the middle and high latitudes of that ocean. Other valuable data have been contributed by the Indian Meteorological Department, the Australian Meteorological Service, the Meteorological Office, London, England, the Meteorological Service of Canada, and the Deutsche Seewarte, Germany.

WIRELESS TELEGRAPH SERVICE.

San Francisco received 206, and Portland, Oreg., 244 wireless reports of observations during the year. These messages are sent and received without expense to the bureau through the courtesy of the vessel captains, the United Wireless Telegraph Co., and the naval wireless stations. Many of these reports are received at Katalla or Cordova, Alaska, and forwarded by the Signal Corps cable free of cost.

It is expected that the number of observations reported by wireless telegraph will be increased during the coming year as a result of the regulations, effective July 1, 1911, requiring all vessels of a certain class to be equipped with sufficient apparatus for radio-communication.

VESSEL-REPORTING STATIONS.

The Weather Bureau stations at Block Island, Cape Henry, Sand Key, Southeast Farallon Island, Point Reyes Light, North Head, Port Crescent, and Tatoosh Island, in addition to their meteorological work, are required to report all passing vessels, wrecks, marine disasters, and casualties, and to transmit communications between masters, owners, underwriters, and others interested. A total of 28,098 vessels were reported and notice of 47 casualties was given during the year.

The stations at Cape Henry, Sand Key, Southeast Farallon Island, Point Reyes Light, North Head, and Tatoosh Island are equipped for day signaling by International Code, and are prepared to transmit messages by telegraph. Cape Henry and Sand Key are also equipped for night communications by flashlight (Morse Code). An acetylene plant for this purpose was installed at Cape Henry during the year.

The station at Jupiter was closed as a vessel-reporting station on April 20, 1911.

Cape Henry uses the telephone and telegraph in reporting to Norfolk and Newport News. A list of vessels passing that station is sent daily to the Norfolk press and the New York Maritime Exchange. All naval vessels are reported to Norfolk, and in some cases to the Navy Department at Washington. The Maryland and Virginia Pilot Associations cooperate with this station, and such vessels as do not burn night signals, or can not be seen on account of fog, are reported each morning by the pilot boats. A time flag is dropped daily at noon for the benefit of the pilot boats and other vessels in the offing.

When the wireless telegraph regulations become effective, an effort will be made to have the captains and operators on all approaching steamers report the fact by wireless telegraph to the naval wireless station at Tatoosh Island, and, in case of fog, to use this means to report their passage to and from the strait.

The service rendered by the seacoast telegraph and vessel-reporting stations of the bureau has been of great benefit to shipping in times of disaster during the last year. At about 11 p. m., September 1, 1910, the steamer *Watson*, bound from Puget Sound to San Francisco, with passengers and general cargo, ran ashore at Waddah Island, Wash. It was floated at 1 a. m., September 3, by the aid of the life-saving tug *Snohomish*, which was wired for at Port Angeles

by our observer at Port Crescent immediately after the wreck. On December 10, 1910, following the wreck of the schooner *William H. Davidson*, our repairman at Manteo, N. C., established a temporary telegraph station on the coast about 30 miles north of Manteo, at the scene of the disaster, and rendered great assistance to the master and crew. Twelve wrecks occurred between Cape Henry and Hatteras during the year, all of which were reported by the life-saving stations to the officials at the Weather Bureau telegraph offices at Cape Henry, Hatteras, and Manteo, who in turn promptly telegraphed the information to the various agents, owners revenue cutters, wrecking companies, and maritime exchanges. It is estimated that fully \$328,250 were saved through the assistance rendered the vessels in distress as a result of these timely reports. Reports of 18 casualties on Lake Huron, in which property valued at \$350,000 was endangered, were also given out from the Alpena, Mich., station, as a result of information received by our observer at that point over the Weather Bureau land and cable lines running between the mainland and Middle Island and Thunder Bay Island.

CLIMATOLOGICAL DIVISION.

The Annual Report of the Chief of the Weather Bureau, 1909-1910, was printed and ready for distribution early in the present calendar year. The transfer of the composition and printing of the Monthly Weather Review from the central office of the Weather Bureau to the Government Printing Office has occasioned some delay in the issue of that publication, but it is probable that arrangements can be made whereby its issue at a slightly earlier date may be possible.

The issue of the National Weather Bulletin, weekly during the crop-growing season and monthly thereafter, continued as in the past. Its increased circulation as a result of numerous requests indicate that its value is rapidly becoming more widely known and appreciated.

The weekly and monthly summaries of the weather conditions in Porto Rico and Hawaii were issued as in the past, as well as those for Iowa, in cooperation with the weather service of that State.

Weekly summaries of the snow and ice conditions, with special reference to the districts east of the Rocky Mountains, were issued as usual during the winter, as well as the monthly summaries of snow-fall conditions, for the benefit of irrigation and other interests in the mountain portions of the West. The latter contain more data than formerly, and the information they present as to the amount and distribution of the snow in the mountains, and its condition as regards prospects for early or late melting, has proved of much value to engineers and those dealing with the storage of water for power purposes and its distribution for irrigation.

The daily bulletins of weather conditions over the great corn, wheat, cotton, sugar, and rice-growing States have been issued regularly from about 40 selected points in those districts, the total issue amounting to more than 2,000 copies daily. The demands for the extension of these services have been numerous and persistent, especially for the establishment of additional telegraphic reporting stations in the cotton-growing sections of Texas and Oklahoma, and the wheat-growing districts of Montana and the Dakotas. These demands have been partially met by the establishment of about 20 additional telegraphic reporting stations, mostly in the western portion of Texas and in the Dakotas. The necessity of more stations of this character is still being urged by the many beneficiaries of these services.

The published annual summaries of climatological data for 1910, for the several States, have served as valuable additions to the series, which has been continued since 1896.

The preparation and printing of the 106 Summaries of Climatological Data, covering the entire United States, have been completed. These summaries have proved almost invaluable in answering the thousands of requests for information regarding the climatic features of the different portions of the country, and the public demand has been so great that reprints of several of the earlier issues have already become necessary.

During the year there was prepared and issued as "Bulletin V, Frost Data of the United States," a set of charts showing the average dates of first killing frost in autumn; average dates of last killing frost in spring; earliest dates of killing frost in autumn; latest dates of killing frost in spring, and the length, in days, of the crop-growing season for all portions of the United States.

These charts were prepared from the records of about one thousand cooperative observing stations having the greatest length of record. As the observations selected were made largely in the open country, and therefore removed from the artificial conditions that prevail in the cities, where most of our regular stations are located, they show the conditions that are liable to prevail in the fields, orchards, and gardens more accurately than ever before attempted.

The Weather Bureau derives much of its important climatological data from the records of its cooperative observers, of whom there are at present about 4,000, reporting from points well distributed throughout the entire United States, including Alaska, Porto Rico, and the Hawaiian Islands. Changes in this feature of the work included the opening of 258 new cooperative stations, and the discontinuance of 150 formerly in operation.

The great extension of the agricultural interests, especially those of trucking and fruit raising, necessitates more exact knowledge regarding the details of the climate of the country as an aid in determining the crops and fruits best suited to the various portions. At the present time this need can only be met by the data furnished by the cooperative observers of the bureau.

The demands for the extension of these reporting stations have been much greater than it was possible to meet. As a rule, new stations have been established only in the more recently settled districts of the western portion of the country, where the necessity for reliable climatological data is most urgent.

The routine work of the division, comprising the furnishing of climatic data to several thousand applicants, the preparation of certified data showing weather conditions for use in courts, and the tabulation of data into the permanent-record books, have been carried forward as usual.

During the year a large number of the original records, including all the river reports, and the summaries of climatological data from 1906 to 1910, inclusive, have been collected, arranged and properly bound. In September, 1910, the work of examining the original meteorological records from stations was transferred to this division, due to the discontinuance of the Distributing Division.

The large accumulation of original records is rapidly exhausting the available storage room in the vault, which will soon have to be enlarged if these valuable records are to be kept free from danger of destruction by fire.

INSTRUMENT DIVISION.

The work and duties of the Instrument Division have remained essentially the same during the past year as heretofore. The equipment of instruments at about 200 telegraphic stations and about 4,000 cooperative stations has been maintained in the best condition possible.

Improvements have been made in the equipment of the storm warning display stations at Delaware Breakwater, Del., Cape Henry, Va., and Sand Key, Fla., through the substitution of acetylene gas for oil in the lanterns, and more particularly through the introduction of separate lanterns operated by a special signaling key for use in flashing messages from the stations to passing vessels. Credit is due to Mr. J. F. Newson, in charge of the station at Cape Henry, for the development of this and other useful apparatus for signaling passing vessels.

Kiosks were installed during the year at Indianapolis, Ind., Salt Lake City, Utah, and Memphis, Tenn. These structures, which are now to be found at 29 stations, have met with universal commendation from commercial bodies and the general public, and requests for others are on file, awaiting consideration at such time as funds may become available for their erection. The kiosk has proved of special value in placing meteorological and climatological data of general interest before the public, as well as in affording a display of the instruments used for indicating and recording temperature, humidity, rainfall, and atmospheric pressure. During the year an improved arrangement of counters was devised by Mr. Maring, of the Instrument Division, for showing the accumulated rainfall since January 1, side by side with the normal fall for the same period, so that the data could be compared at a glance and the excess or deficiency for the current year noted.

Special forms of apparatus promising to give satisfactory results in the accurate measurement of snowfall in the mountain regions are described and illustrated in an Instrument Division circular issued during the year under the title "Measurement of precipitation." A limited number of sample gages were installed late in the season at a few selected stations, but the records obtained are not as yet sufficiently numerous to bring out any definite results.

Work upon the apparatus for the absolute measurement of solar radiation has been carried forward, and a number of comparisons have been made with different types of receivers, bridges, etc. Orders were placed in the latter part of the year for an improved form of recording Wheatstone's bridge for the continuous registration of sunshine.

The seismographs at Washington have been maintained in operation throughout the year, but no work of a seismological character has been done at any of the other stations, notwithstanding the general call from a number of sources that the Weather Bureau engage in this important work. It is hoped ample means and authority will be granted the Weather Bureau to add seismological work to its present duties.

LIBRARY.

During the year just ended, 1,064 books and separate pamphlets were added to the library, which now numbers approximately 31,000 volumes. All additions were fully catalogued under author and subject.

As heretofore, all the scientific periodicals received in the library, including annuals, were regularly searched for articles of meteorological interest. These periodicals include all the important journals of general science, and most journals devoted to physics, geophysics, geography, and other subjects germane to meteorology, in many languages. The proceedings and transactions of learned societies are well represented. All articles of permanent meteorological interest were catalogued under author and subject; and in many cases brief notes were added on the catalogue cards to amplify the information conveyed by the titles.

The periodical literature is, as a rule, more highly specialized than that published in book form, and is therefore indispensable to the special student. The work of cataloguing such literature under appropriate topical headings, about a thousand of which are now used in the library, requires on the part of the cataloguers a wide knowledge of meteorology and of the principal foreign languages, besides familiarity with library science in general. Hence the Weather Bureau needs to maintain a strong library staff, specially trained in handling the cosmopolitan literature of meteorology, and in sympathetic relations with the scientific staff of the bureau, to whom it is essential that this literature shall be made readily accessible.

Only by virtue of its direct exchange relations with scientific institutions throughout the world is the bureau able to secure promptly all the current publications on meteorology. Much of this literature, especially that of an official character, could not be obtained by purchase, even if the funds were available. The periodical publications of the bureau, especially the *Monthly Weather Review* and the *Bulletin of the Mount Weather Observatory*, are an indispensable means of securing valuable literature through exchange.

Select lists of new meteorological publications have been published regularly in the *Monthly Weather Review*, as in former years. A revised edition of the librarian's "Brief List of Meteorological Textbooks and Reference Books" was issued during the year.

The library continues to make all translations from foreign languages required in the bureau, to supervise the small libraries maintained at about 200 stations, and to perform the work at the central office in connection with promotion examinations. All these classes of work have grown steadily during the past year.

Several station libraries have been strengthened by the addition of important works in German and French, dealing with branches of meteorology that are not adequately treated in English. This applies especially to the literature of atmospheric electricity, atmospheric optics, and climatography.

In recording the growth of the library it appears proper to mention specifically a few of the more important meteorological works published in the course of the year, copies of which have been received.

Doubtless the greatest interest in this connection attaches to the completion of J. Hann's "Handbuch der Klimatologie," third edition, of which the third and final volume has recently appeared. This work, in its successive editions, is the only extensive treatise on the climates of the world published during the past 20 years.

W. Trabert's "Lehrbuch der kosmischen Physik" (Leipzig, 1911), is the most noteworthy recent publication belonging to the class of general textbooks of meteorology. A long-awaited new edition of the International Cloud Atlas has appeared. It introduces few changes in the existing classification of clouds, officially adopted in all countries.

Aerology and aeronautical meteorology engage the attention of a rapidly increasing number of writers. Dr. Franz Linke's "Aeronautische Meteorologie," the first volume of which was recently published, is the prototype of a class of books likely to become common. It is a practical handbook dealing with the branches of meteorology of special interest to aeronauts. A third edition of Moedebeck's "Taschenbuch für Flugtechniker und Luftschiffer" is, like the earlier editions, strong in the meteorological branches of the subject. Messrs. A. L. Rotch and A. H. Palmer have issued a novel series of "Charts of the Atmosphere for Aeronauts and Aviators." The British Government has published a noteworthy "Report of the Advisory Committee for Aeronautics, 1909-10," containing several papers by the director of the meteorological office.

The Carnegie Institution has published the first volume of a work on "Dynamic Meteorology and Hydrography," by Prof. V. Bjerknes and others. Its object is to present the fundamental facts and principles of the subject in a form suitable for treatment by the mathematical physicist, in part according to methods not heretofore applied.

Dr. B. Walter has described an ingenious method of photographing lightning flashes with two cameras, one moving and the other stationary. ("Ueber Doppelaufnahmen von Blitzen," Hamburg, 1910.) Dr. Süring has contributed an important treatise on meteorological photography to K. W. Wolf-Czapek's "Angewandte Photographie in Wissenschaft und Technik," volume 1 (Berlin, 1911).

Important works on the circulation of the atmosphere included "The Trade Winds of the Atlantic Ocean," published by the British Meteorological Office; W. J. S. Lockyer's "Southern Hemisphere Surface-air Circulation," published by the British Solar Physics Committee; and a fourth installment of H. H. Hildebrandsson's "Quelques recherches sur les centres d'action de l'atmosphère." (Upsala, etc., 1910.)

The Bureau of Soils of this department published a bulletin by E. E. Free, "The Movement of Soil Material by the Wind," which deals very fully with the subject of atmospheric dust, and is accompanied by a well-nigh exhaustive bibliography of this subject. Secular changes of climate during the post-glacial period form the subject of a large volume of reports by numerous collaborators, issued under the direction of the Eleventh International Geological Congress. ("Die Veränderung des Klimas seit dem Maximum der letzten Eiszeit," Stockholm, 1910.)

Climatology was represented by the second and final volume of J. Maurer's "Das Klima der Schweiz" (Frauenfeld, 1910); Tetens and Linke's "Das Klima von Samoa" (Berlin, 1910); O. L. Fassig's "Climate of Porto Rico" (extracted from "Register of Porto Rico, 1910," San Juan, 1911); a second part of G. Hellmann's "Das Klima von Berlin" (Berlin, 1910); F. Eredia's "La temperatura in Italia" (Rome, 1911); and fully a score of other valuable publications. The third volume of Hann's "Klimatologie," mentioned above, was, however, the all-important climatographic publication of the year. It deals with the climates of the Temperate and Polar Zones.

General works on meteorology have recently been published in Russian, Spanish, Dutch, and modern Greek, by Voeikov, Oliver, Gulik, and Eginitis, respectively.

EXAMINATIONS FOR PROMOTION.

The total number of examination papers received and rated during the year was 295, as compared with 258 during the preceding year. Following is the record in detail:

Subject.	1910		1911		Total.	Passed.	Failed.
	August.	November.	February.	May.			
English grammar.....	7	12	9	8	36	20	16
Arithmetic.....	6	14	10	3	33	26	7
Elementary meteorology.....	6	12	9	3	30	23	7
Essay writing.....	7	13	11	18	49	34	15
Algebra.....	6	13	10	11	40	30	10
Physics.....	4	9	5	11	29	21	8
Trigonometry.....	3	6	4	5	18	15	3
Astronomy.....	8	1	3	7	19	19	0
Plant physiology.....	8	3	4	7	22	21	1
Advanced meteorology.....	7	1	3	8	19	17	2
Total.....	62	84	68	81	295	226	69

TELEGRAPH DIVISION.

The various telegraph and telephone lines owned and operated by the Weather Bureau have been maintained in good condition, at a total outlay of less than \$500 for minor repairs.

The Block Island-Narragansett section, which extends from the island to Narragansett Pier, has worked excellently and with little interruption during the entire year.

The Norfolk-Hatteras line was down for 29 days, but Hatteras weather reports failed to get through on time on only 15 days, the life-saving telephone being used at other times of interrupted service. The loop between Cape Henry and Virginia Beach was changed from Western Union telegraph poles to Government poles during the year. The entire section was inspected by the chief operator in May. Proper recommendations were made and approved by the central office, including the purchase at a cost of \$1,182.72 of 1 $\frac{1}{2}$ miles of new cable to replace an old and defective cable at New Inlet, N. C. General work necessary to put the section in excellent condition will shortly be made. The life-saving crews from Cape Henry to Hatteras have rendered valuable assistance in making all minor repairs.

The submarine cable from Key West to Sand Key, Fla., was interrupted for two days during the month of February, due to temporary trouble in the terminal trench at Key West end.

The Alpena-Thunder Bay and Middle Island, Mich., section has worked well, with but 36 hours of interrupted service during the year.

The Beaver Island section from Charlevoix to St. James, Mich., was uninterrupted during the entire year and was maintained without any expense to the bureau for repairs.

The Glen Haven-South and North Manitou Islands, Mich., section was thoroughly overhauled during September and October, 1910, and placed in first-class condition by a lineman detailed from the Life-Saving Service. In March, 1911, a landslide at South Manitou Island carried away a portion of the shore end of the cable, burying it in the sand to such a depth that 1,700 feet had to be abandoned. Extra cable was shipped from Charlevoix, Mich., and, through the cooperation of the Life-Saving Service, the necessary repairs were made and cable service restored on May 31. Repairs were made at the time to the cable box on North Manitou Island, restoring service between that island and South Manitou; also to the telephones at Glen Haven and Sleeping Bear Life-Saving Station. The line, cable, and instruments between Glen Haven, South Manitou, and North Manitou Islands are now in good working order.

The line from San Francisco to Point Reyes has been placed in good condition at a small expense.

Communication between Port Crescent and Tatoosh was interrupted during the year for a total of 14 days. Communication between Port Crescent and Seattle, on the Western Union line, was also interrupted for 39 days, and on the Postal wire for 55 days.

The Government receipts from all lines for commercial messages handled during the year amounted to \$2,018.48.

PUBLICATIONS DIVISION.

The Publications Division has continued to issue the regular publications of the bureau, consisting of the Monthly Weather Review, the Bulletin of the Mount Weather Observatory, the National Weather Bulletin, the Snow and Ice Bulletin, the Marine Meteorological Charts, the Weather Maps, and the forecast cards. It has also supplied the stations with blank forms for their meteorological and other station work, and blank maps and cards for disseminating weather forecasts.

On January 1, 1911, most of the printing material, including power and job presses, monotype machines, and type, was transferred to the Government Printing Office, where the actual printing work of the bureau has since been done, with the exception of the daily weather maps, and cards for the local forecasts, and such small supplies as have been needed for immediate use at the central office. Lithographic operations remain unchanged.

As a result of this change in the printing work of the bureau the services of 16 employees in its printing office were dispensed with at the close of the year, 9 being transferred to the Government Printing Office. Seven rooms on the second floor of the quarters previously occupied have also been vacated, and all printing work is now confined to the first floor.

DIVISION OF SUPPLIES.

The reclassification of property recommended by the board of survey went into effect on June 1, 1911. This classification eliminates the group formerly designated "Y" property, which, after becoming unserviceable from use, could be dropped from the returns without special authority. Under the new system only such articles can be dropped as are actually consumed by use or that are of slight value and soon worn out in service.

The equipment of 55 stations with chalk plate and stereotyping outfits for use in casting plates for commercial maps was completed during February, 1911. At a few of these stations the publication of the maps in the daily papers has since been discontinued, but the spare equipment has all been utilized in supplying other map-making offices.

New glass weather maps for public display were contracted for and installed as follows: Two in the United States Capitol, and one each at Fort Smith, Ark.; Boston, Mass.; Indianapolis, Ind.; Richmond, Va.; Cincinnati, Ohio; Wichita, Kans.; Vicksburg, Miss.; and Peoria, Ill.

All regular stations and all substations issuing daily forecast cards were supplied with improved logotype outfits during the year. Besides a much enlarged vocabulary of weather terms, with standard captions and dates, each new outfit for regular stations includes a hand-printing press that produces excellent impressions in much smaller and neater type than that formerly used on forecast cards. Substations were supplied with new hand-stamping outfits, consisting of a modified vocabulary, and type holders of new and improved pattern. These new outfits are superior in every respect to the old stamping devices, and are the result of considerable experimental work conducted in this division with a variety of apparatus submitted by manufacturers.

OBSERVATORY BUILDINGS.

No new observatory buildings were authorized during the year, except the reconstruction of the building at Sand Key, Fla., to replace the one that was destroyed by the hurricane of October 11, 1909. This building is now in course of construction, but the work has been unusually difficult because the key was practically washed away by the hurricane of October 17, 1910. The building site is now completely under water, which fact has materially retarded the work. However, the key is gradually reforming and it is expected that in a year or two it will have assumed its previous size. It is probable that the building will be finished and ready for occupancy by or before October 1, 1911. During the building operations the Weather Bureau employees are occupying a room in the lighthouse, and the work of the Bureau is being conducted without interruption.

The same hurricane that washed away Sand Key damaged the observatory building at Key West so badly that it is necessary to replace it. Congress has appropriated \$15,000 for the purpose, and it is expected that the building will be completed by March 1, 1912.

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	² 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	³ 20.00	10,043.50	10,063.50
Canton, N. Y.....	1909	³ 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
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 Lausling, Mich.....	1909	³ 11.35	12,781.04	12,792.39
Hatteras, N. C.....	1902	^{1 4} 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.....	⁵ 1906	(¹)	7,000.00	7,000.00
Variation building.....	⁵ 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.....	⁶ 1909	(¹)	37,521.51	37,521.51
Cottage and office.....	⁷ 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	³ 101.00	12,795.64	12,896.64
North Head, Wash.....	1902	(¹)	3,820.13	3,820.13
North Platte, Nebr.....	1906	(⁸)	3,818.50	3,818.50
Oklahoma, Okla.....	1906	³ 38.90	10,520.25	10,559.15
Peoria, Ill.....	1905	³ 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	³ 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)	⁹ 14,800.00	⁹ 14,800.00
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
Tatooch Island, Wash.....	1902	(¹)	5,000.00	5,000.00
Washington, D. C.....	(⁸)		174,950.76	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	681,884.25	725,533.20

¹ Government reservation.² Renodeled.³ Donated; figures represent cost of title transfer.⁴ Additional ground purchased.⁵ Begun in 1905.⁶ Begun in 1903.⁷ Begun in 1907.⁸ Building and ground purchased as a whole.⁹ Estimated cost of new building now in course of construction.

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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	
Lewistown, Idaho.....	540	
Manteo, N. C.....	144	
Moorhead, Minn.....	600	Heat, light, water.
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.
Winnemucca, Nev.....	480	Heat, light, water.
Total.....	10,628	

PERSONNEL OF THE BUREAU.

The numerical strength of the Weather Bureau at the close of the year was 9,483, as compared with 6,895 at the end of the preceding 12 months. This unusual increase is apparent rather than real, however, since the total owes its enlargement almost entirely to the inclusion of 2,416 marine meteorological observers who have hitherto not been considered in the enumeration. Of the total number, 7,390, or nearly 80 per cent, are cooperative observers, rendering service without compensation other than that received through the free distribution of Government publications.

The total number of commissioned employees at the end of the year, 776, was 16 less than at the close of the preceding year. This decrease has been brought about largely through a lessening of the central office force by 25, owing to the discontinuance of a large portion of the printing work. The actual number of commissioned employees at stations, however, was 9 greater at the close of the year than at the time of the last report.

The formation of the new Division of Observations and Reports practically absorbed the central office clerical force formerly engaged in the duties performed by the Marine, Forecast, River and Flood, and Distributing Divisions. The force in the remaining divisions has been increased slightly in some instances, with the exception of the marked reduction in the Publications Division, already mentioned.

The enlargement of the commissioned force in the field by 9 was necessitated through the establishments of new stations at Dayton, Ohio; Fort Wayne, Ind., and Miami, Fla. At the stations already in existence the working force was lessened by one at 7 points, in order to meet the demands for additional help at other stations where the service rendered the public had become greatly expanded. The rearrangements thus effected, both at the central office and in the field, have had for their sole object the performance of a maximum amount of work with a minimum number of employees.

The number of permanent appointments in the classified service during the year, including those effected by transfer and reinstatement, was 37 less than in the preceding year. The

temporary appointments were 22 less. During the same period the promotions, amounting to 172, were also less by 29. All promotions were to the next higher grade, with but one exception, that of an official assigned to a newly established station where the responsibilities of his position were much greater than at the station formerly held.

The number of voluntary resignations in the classified service during the year was 70, or 17 more than in the previous year. Of this number 31 were in the grade of messenger and messenger boy, and 15 were recently appointed assistant observers. The loss in the messenger service is naturally to be looked for as the boys advance toward manhood. The inability to hold all of the new assistant observers is doubtless due to the small salary paid them during the first year or two of their service. At the present rate of wages young men of their attainments are able to command, the temptation to engage in employment giving more lucrative immediate returns than those offered in the lower grades of the Government service has often proved irresistible.

Of the 69 probationary appointments made, only two failed to complete successfully the six months' probationary period. There were 9 forced resignations from the classified service, for various causes, during the year, while the removal for reasons reflecting upon the character of the employees were 3. Of the 14 reductions during the year, 6 were brought about through causes reflecting in no manner upon those reduced, while 8 suffered a decrease in salary for failure to measure up to the standards of efficiency and conduct required by the bureau.

In the unclassified service there were 5 permanent and 2 temporary appointments, as compared with 5 permanent and no temporary appointments in the preceding year.

The absence record for the service, as a whole, showed a fraction of a day more sick leave and a fraction of a day less annual leave, for each employee, than in the preceding year.

There were 4 deaths in the commissioned force during the year, as compared with 8 for the year before. Among these was Mr. Jesse H. Robinson, Chief of the Telegraph Division at the central office of the Weather Bureau, in whose death, on May 1, 1911, the bureau sustained the loss of a valued official. Mr. Robinson entered the service on March 6, 1872, and was appointed chief operator in 1891, and Chief of the Telegraph Division in 1902.

CHANGES IN THE FORCE OF THE BUREAU.

CLASSIFIED SERVICE.

Appointments:

Probationary—

Compositor, at \$1,250.....	1
Skilled mechanics, at \$1,200.....	2
Clerk, at \$1,000.....	1
Clerk, at \$900.....	1
Copyists, at \$840.....	2
Assistant observer, at \$840.....	1
Copyist, at \$720.....	1
Assistant observers, at \$720.....	18
Skilled mechanic, at \$720.....	1
Repairman, at \$720.....	1
Messenger, at \$480.....	1
Messenger boys, at \$450.....	7
Messenger boys, at \$360.....	32
	<hr/>
	69
	<hr/>

Transfer—

Assistant observer, at \$1,000.....	1
	<hr/>

Reinstatement—

Section director, at \$1,800.....	1
Assistant observer, at \$1,000.....	1
Printer, at \$1,000.....	1

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Appointments—Continued.

Reinstatement—Continued.

Assistant observer, at \$840.....	1
Assistant observer, at \$720.....	1
Messenger, at \$600.....	1
	<u>6</u>

Temporary—

Compositor, at \$1,250.....	1
Skilled mechanic, at \$1,200.....	1
Skilled mechanic, at \$1,000.....	1
Repairman, at \$720.....	1
Folders and feeders, at \$630.....	2
Messenger, at \$480.....	1
Messenger boys, at \$360.....	20
	<u>27</u>

Promotions (all promotions except 1 were to the next higher grade or by certification for advancement from sub-clerical positions).....	<u>172</u>
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Reductions:

Causes—

To grant assignment to preferred station.....	1
To grant assignment to preferred work.....	2
As an offset to the bureau for allowance of quarters, fuel, and light.....	2
Necessitated by change of duties.....	1
Unsatisfactory administrative work.....	1
Unsatisfactory services.....	4
Neglect of duty.....	1
Unsatisfactory conduct and neglect of duty.....	2
	<u>14</u>

Resignations:

Voluntary.....	70
Required because of—	
Unsatisfactory services.....	3
Unsatisfactory conduct.....	1
Unsatisfactory service and conduct.....	1
Absence without authority.....	1
Non-payment of debts.....	1
Physical unsuitability for Weather Bureau work.....	1
Refusal of tendered assignment.....	1
	<u>79</u>

Transferred to the Division of Publications, Department of Agriculture.....	<u>2</u>
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Removals:

Causes—

Transfer of certain printing work from the Weather Bureau to the Government Printing Office.....	7
Continued illness.....	1
Neglect of duty and unsatisfactory services.....	1
Intoxication and neglect of duty.....	1
Intemperance and absence without authority.....	1
Legally adjudged insane.....	1
	<u>12</u>

Dropped from the rolls at termination of probationary period because of unsatisfactory services.....	<u>2</u>
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Deaths.....	<u>4</u>
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UNCLASSIFIED SERVICE.

Appointments:	
Permanent—	
Unclassified laborers, at \$480.....	3
Student assistants, at \$300.....	2
	<u>5</u>
Temporary—	
Student assistant, at \$300.....	1
Charwoman, at \$240.....	1
	<u>2</u>
Promotions (to the next higher grade).....	2
Resignations:	
Voluntary.....	5

ABSENCE.

AVERAGE NUMBER OF DAYS PER EMPLOYEE DURING CALENDAR YEAR 1910.

	Sickness.	Annual leave.
Station (99 per cent males).....	1.5	6.8
Washington, D. C.:		
Males.....	4.6	23.4
Females.....	10.2	27.3
Entire service.....	2.4	11.2

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, 1911.

At Washington, D. C.:	
Classified.....	174
Unclassified.....	11
	<u>185</u>
Outside of Washington, D. C.:	
Classified.....	579
Unclassified.....	12
	<u>591</u>
Total commissioned employees.....	776
Additional employees outside of Washington, D. C.:	
Storm-warning displaymen.....	183
River observers.....	383
Cotton-region observers.....	125
Corn and wheat region observers.....	134
Rainfall observers.....	110
Sugar and rice region observers.....	7
Special meteorological observers.....	82
Special cranberry-marsh observers.....	8
Special snow and ice observers.....	4
Mountain snowfall observers.....	281
Total noncommissioned employees.....	<u>1,317</u>
Total paid employees.....	<u>12,093</u>

¹ This total embraces all paid persons connected with the bureau on June 30, 1911, except 14 commissioned employees absent on that date and who had been granted leaves of absence or furloughs without pay for one month or more.

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Persons serving without compensation (except through the distribution of Government publications):

Cooperative observers and correspondents (omitting 412 paid observers enumerated elsewhere).....	4,847
Cooperative storm-warning displaymen.....	96
Cooperative river observers.....	22
Cooperative rainfall observers.....	9
Marine meteorological observers.....	2,416
Total cooperatives.....	7,390
Total numerical strength.....	9,483

DISTRIBUTION OF THE COMMISSIONED FORCE, JUNE 30, 1911.

In Washington, D. C.:

Accounts Division.....	¹ 14
Climatological Division.....	17
Executive branch.....	19
Forecasting.....	2
Instrument Division.....	11
Library.....	5
Observations and Reports, Division of.....	26
Observatory.....	1
Publications Division.....	24
Supplies Division.....	¹ 11
Telegraph Division.....	11
Verification section.....	2
Drafting room (under direction of the chief clerk).....	4
Heat, light, and power plant (under the direction of the chief clerk).....	5
Miscellaneous mechanical work (under the 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
Total.....	185

Outside of Washington, D. C.:

53 stations with 1 commissioned employee.....	53
45 stations with 2 commissioned employees.....	90
50 stations with 3 commissioned employees.....	150
18 stations with 4 commissioned employees.....	72
14 stations with 5 commissioned employees.....	70
7 stations with 6 commissioned employees.....	42
5 stations with 7 commissioned employees.....	35
2 stations with 8 commissioned employees.....	16
3 stations with 9 commissioned employees.....	27
1 station with 10 commissioned employees.....	10
1 station with 12 commissioned employees.....	12
1 station with 23 commissioned employees.....	23
200 stations.....	² 600

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, 1911, there were actually on duty 591 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 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.

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

SALARIES PAID IN THE COMMISSIONED GRADES.

Grades.	June 30, 1911.	
	Stations.	Washington, D. C.
Classified grades:		
Highest salary	\$3,500	\$6,000
Lowest salary	360	450
Average salary	1,046	1,173
Unclassified grades:		
Highest salary	720	720
Lowest salary	300	240
Average salary	405	513

Average salary of all (station and Washington) is \$1,057.

PART II.

GENERAL SUMMARY OF THE WEATHER CONDITIONS IN
THE UNITED STATES DURING THE YEAR 1910, WITH
CHARTS.

LIST OF OBSERVING STATIONS AND CHANGES THEREIN
DURING 1910.

SUNSHINE, 1910.

DETAILS OF EXCESSIVE PRECIPITATION, 1910.

GENERAL SUMMARY OF THE WEATHER CONDITIONS IN THE UNITED STATES DURING THE YEAR 1910.

The most remarkable meteorological feature of 1910 was the abnormality of the spring. Over nearly the entire country March was very warm and generally dry, and was followed by a long period of cool and rather wet weather. There was much resemblance between the spring of 1910 and that of 1907; but in 1907 the premature warmth was practically confined to the latter half of March and was promptly followed by a long period of decidedly cool weather, accompanied in the southeastern States by abnormally heavy rains. In 1910 the unusual warmth prevailed during nearly the whole of March, and continued in the greater portion of the districts to the westward of the Rocky Mountains practically without a break through April and May to about the middle of June. Also in most districts east of the Rockies the warmth prevailed till about the middle of April, when unseasonably cool weather followed, lasting generally till about the middle of June.

The cool period of the spring of 1910 was generally accompanied by more than the normal precipitation, though very few stations received enough to counterbalance the accumulated deficiency due to the generally dry weather of March and early April. Indeed, in the more northern States from the upper Lake region westward to the one hundredth meridian or somewhat beyond, dry weather prevailed practically all through the spring and summer; only a very few weeks brought considerable rains, and long, dry periods intervened, causing the soil to become far too dry for normal crop growth. Minnesota and North Dakota were probably the States most seriously affected by this drought, but large portions of Wisconsin and South Dakota also suffered severely. For the period from March 1 to May 9, ten weeks of very great importance to crops, St. Paul received only one-sixth of its normal precipitation, Duluth about two-fifths, Moorhead slightly more than one-half, and Bismarck but little more than one-third. Considering the five months from March to July, inclusive, we find that St. Paul and Moorhead had each less than 5 inches, or only about the third part of the usual amounts; Duluth received but 7 inches, and Bismarck less than 6, or only about half the normal falls. When August and September are included, making seven months, St. Paul and Moorhead are found to have less than 8 inches each, or hardly more than one-third the normal amounts, while Duluth and Bismarck had only about two-thirds of their normal amount.

January.—January, 1910, opened with mild weather prevailing in most eastern districts, but a decided fall in temperature soon occurred, and the first half of the month averaged colder than usual in nearly all parts of the country. The last half of the month was unseasonably warm in all districts east of the Rocky Mountains, except the South Atlantic and Gulf States, but west of the Rockies the cold weather lasted longer, especially in Nevada and California.

The precipitation averaged more than normal in most of New England, the Middle Atlantic States, lower Lake region, and Ohio Valley, also in eastern Kansas, northern Arizona, western Washington, and in much of Wyoming. In some central States and in portions of the Plains region there was a greater snowfall than usual, and Iowa, Minnesota, and South Dakota had deep snow covering the ground for nearly or quite the whole month. The greater part of the country had less precipitation than usual, and this was especially true of the cotton region, where there was a general deficiency of from 1 to 2 inches.

February.—Over almost the entire country February averaged somewhat colder than the normal. This was notably true of the Mississippi Valley and the northern tier of States, which, however, experienced rather mild weather during the first half of the month. A severe cold

wave swept over the Mississippi Valley and Gulf States about the 15th to 19th. As the month grew to a close remarkably mild weather set in over the Gulf and Atlantic States.

The precipitation was greater than normal in most of the Ohio Valley, New York, and New England, where the snowfall was rather heavy; and Louisiana and most of the east Gulf coast received heavy rains. In general, nearly all the region to eastward of the Mississippi had more than normal precipitation, excepting Maryland, the Virginias, northern and western North Carolina and eastern Tennessee, northern Illinois, and the upper Lake region. West of the Mississippi the month was drier than usual, save in Louisiana and Arkansas, in parts of Oregon, and generally in the northern border States from Washington to North Dakota.

March.—Except in southern Florida the month averaged warmer than normal, and generally in a marked degree. In most of Idaho, Nevada, and Utah and everywhere between the Rockies and the Appalachians, save in the southern tier of States, the excess of temperature was at least 8°, and in Minnesota and the upper Missouri Valley it was from 16° to over 20°, the most phenomenal condition being in North Dakota, where the average temperature for March is about 21°, or 11° below freezing, but March, 1910, had an average temperature of over 41°. The mild conditions prevailed with scarcely a break during the entire month. The period from the 21st to the 29th generally marked the culmination of the warmth in districts to eastward of the Rocky Mountains.

April.—The opening days of April were marked by warm and dry weather, which continued generally till near the middle of the month, when cooler weather and rain set in over much of the eastern portion. The weather continued warm and dry during most of the month in the districts west of the Rocky Mountains, but to the eastward a change to much colder and wet weather occurred during the latter part of the month, and a cold wave of unusual severity swept over the central and southern portions of the country, carrying frosts and freezing temperatures nearly to the Gulf coast about the 24th and 25th. Immense damage resulted to fruit and vegetation, which on account of the long period of warm weather preceding had been brought to a stage of development much in advance of the normal. Warmer weather again set in during the last few days of the month and at the close seasonable temperatures were prevailing over most districts.

For the month as a whole the temperature averaged above the normal throughout all western and northern districts, it being an unusually warm month in the Northwest, while in the Gulf States and lower Mississippi Valley the monthly averages were somewhat below the normal.

The rainfall to the eastward of the Mississippi River was fairly generous, except near the south Atlantic and Gulf coasts, where it was rather light. Over the Great Plains region and generally to the westward of the Rocky Mountains the rainfall was deficient in amount.

May.—Moderately warm weather prevailed during the first few days of the month in most districts, especially to the westward of the Rocky Mountains, but cooler weather soon set in over the central and eastern portions, and the month as a whole was decidedly cold in the great agricultural districts of the central valleys. West of the Rocky Mountains warm weather continued throughout the month.

The precipitation was fairly well distributed over the greater part of the Mississippi Valley and eastward, the fall being quite heavy, 8 to 10 inches, from southern Iowa and eastern Kansas southward to the Gulf and also in other small areas to the eastward. There was a notable lack of rain in the upper Mississippi Valley and in the Dakotas and other portions of the upper Missouri Valley, the amounts in many portions of the spring-wheat districts being less than one-half of the normal. To the westward of the Rocky Mountains the month was among the driest on record.

June.—Warm weather continued during the first half of the month in the districts west of the Rocky Mountains, and a warm area overspread the southern plains region and west Gulf States during the first week, but over the remaining districts east of the Rocky Mountains the weather continued unseasonably cool until near the middle of the month, especially in the

Lake region and portions of the Ohio and middle Mississippi Valleys. About the middle of the month a general reversal of temperature conditions obtained, and for the first time in a number of weeks the temperature went below the normal in the districts to the westward of the Rocky Mountains, while in practically all portions of the country to the eastward, except in the southwest, the temperatures were in excess. Cool weather predominated in the western districts during the remainder of the month, while it continued warm over the districts to the eastward except in portions of the Gulf States.

Precipitation was heavy over most of the Gulf and Atlantic coast States, and considerable damage resulted from floods in the South Atlantic States during the last decade. There was a continued lack of rain in portions of the spring-wheat region, especially in North Dakota and portions of the surrounding States, where at the end of the month the need of more moisture was beginning to be severely felt, and it was becoming dry in portions of the Lake region and Texas also.

July.—Generally warm weather was the rule during the month, except over portions of the Ohio Valley, east Gulf, and South Atlantic States, where the monthly average was somewhat below the normal. Over much of the territory from the Great Lakes westward to the Mountains and over the Great Plains and Plateau regions of the West, portions of the month were marked by unusual warmth.

The drought that had persisted during June over portions of the upper Mississippi Valley, Lake region, and Plains States continued during the month of July and became very severe in portions of the spring-wheat region. The month was generally dry in Texas and portions of Oklahoma and along the north Atlantic coast. The general lack of rain during the year in portions of the Lake region, New York, and New England and other districts caused low stages of the rivers, and users of water power were seriously handicapped in the operation of their industries.

Over much of the Ohio and middle and lower Mississippi Valleys, the east Gulf and South Atlantic States there was sufficient moisture, and heavy rains in portions of the lower Ohio Valley about the 15th caused high waters in the smaller streams, and great damage to crops, principally tobacco in Kentucky, resulted from the overflow.

August.—Warm weather prevailed over much of the Gulf States and in Texas, Oklahoma, and other portions of the Southwest throughout nearly the whole of the month, the heat being especially persistent and at times severe in the interior of Texas. Over the central valleys and the entire Northwest the temperature was generally low, and one of the most pronounced periods of cold ever experienced in August occurred in the northern districts during the latter part of the month. The temperature passed below the freezing point in many portions of the northern Rocky Mountain region; snow occurred at the higher elevations, and killing frost did considerable damage in the Dakotas, Montana, and Wyoming, and light frost occurred at exposed points in New York and New England.

Good rains fell over much of the country east of the Mississippi, especially along the south Atlantic and east Gulf coasts and portions of the Plains region and middle Missouri and upper Mississippi Valleys. In portions of the North Atlantic States and lower Lake region, however, the water supply continued low on account of the previous deficiency in precipitation, and much inconvenience was felt by manufacturing interests depending upon water for power to turn their wheels.

But little rain occurred in large portions of Texas, and the hot and dry weather was very unfavorable. Good rains occurred in portions of Arizona, New Mexico, and Colorado, but elsewhere west of the Rocky Mountains the month was dry, and a drought of unusual severity prevailed over the entire Pacific coast, accompanied by damaging forest fires in the northern portions.

September.—The cold weather that had overspread the northern districts during the latter part of August continued into the early part of September over those districts, and in fact the weather remained moderately cold throughout the greater part of the month in the more

northern portions. On the other hand, unusually warm weather prevailed at the beginning of the month over portions of Texas and the adjoining parts of Arkansas and Oklahoma, and with slight breaks warm weather continued throughout the month over nearly the entire southern portions. At the close of the month the temperature was near or slightly above the normal throughout the country.

Generally ample precipitation for current needs occurred over the districts to the eastward of the Mississippi, although in portions of the Middle Atlantic States the fall was much less than the average, and the water supply, especially in some of the larger cities of Maryland and Virginia, became so low as to necessitate the most rigid economy in its use. Between the Mississippi River and the Rocky Mountains good rains occurred in the lower Missouri Valley and in portions of the middle Plains region and locally in Texas and the Dakotas, but severe drought prevailed in portions of Texas and Oklahoma, and the water supply continued low. West of the mountains there was generally less than the usual amount of rain, although in portions of California and Washington considerable amounts fell.

October.—The month averaged warmer than the normal in nearly all portions of the country, and was especially mild in the upper Missouri Valley. As the month was ending, however, a marked cold wave swept over practically all districts to the east of the Rockies, bringing unseasonably cold weather in the lower Mississippi Valley, east Gulf, and South Atlantic States.

The Atlantic Coast States from Florida to New Jersey, except eastern North Carolina, received more than the normal amount of precipitation, owing chiefly to the tropical hurricane which passed northeastward about the 15th to 20th, bringing high winds and exceedingly heavy rain to the Florida Peninsula. Most of the cotton region had more than normal precipitation, but there was a deficiency in northern Louisiana, central and northeastern Texas, and over most of Oklahoma. Very heavy rains occurred early in the month in western Tennessee, northeastern Arkansas, and the lower Ohio Valley, resulting in much damage. In the lower Lake region, southern California, the central Plateau, and northern Rocky Mountain regions, and over the north Pacific coast the amounts were generally greater than normal. In New England and the central portions of New York and Pennsylvania the rainfall was decidedly scanty; also the Missouri and upper Mississippi Valleys had very deficient precipitation.

November.—West of the Mississippi Valley November generally averaged warmer than normal, especially in Colorado and the adjoining States. In the eastern part of the country the month was colder than usual, though the period from the 20th to the 28th was marked by rather mild weather between the Mississippi River and the Appalachians.

In central and southern California the month was unusually dry, but elsewhere west of the Rocky Mountains there was more than the normal precipitation, especially in the western portion of Oregon. East of the Rockies, save over small areas, the month was everywhere drier than normal, and notably so in the Mississippi, lower Missouri, and Ohio Valleys, and portions of the Middle Atlantic and west Gulf States, where the deficiency ranged generally from 2 to 4 inches.

December.—To the westward of the Mississippi Valley, except in portions of North Dakota and Montana, December was generally warmer than normal, but to the eastward it was generally much colder, especially in the Ohio Valley, lower Lake region, and Middle Atlantic States, where it was one of the coldest Decembers in many years, although there were no unusually low temperatures. During the first days of the month a severe cold spell visited the east Gulf and South Atlantic States, the line of freezing temperature extending to the Gulf coast and well into the southern portion of the Florida Peninsula.

Taking the country as a whole, the December precipitation was notably less than usual, although in several widely scattered areas it was somewhat greater; but, save one—covering portions of eastern Texas, southeastern Arkansas, and most of Louisiana—these areas were comparatively small and unimportant. In a large number of Northern States there was more snow than usual, but so little rain fell that the precipitation as a whole was deficient. At the close of the month marked need of rain was reported in New England, Iowa, Oklahoma, New

GENERAL SUMMARY.

Mexico, and California, and there was a general and widespread deficiency in the fall for the year as a whole. Large areas of New England did not receive more than 75 per cent of the usual fall, and in portions of the upper Mississippi and Missouri Valleys the total fall for the year did not reach 50 per cent of the normal, and similar conditions existed in portions of Texas, the Southwest, California, and other smaller areas.

ANNUAL SUMMARY, CLIMATOLOGICAL DATA, CANADIAN STATIONS, 1910.

[Data furnished by the Canadian Meteorological Service.]

Stations.	Pressure in inches.			Temperature of the air in degrees Fahrenheit.						Precipitation.		
	Station, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours.	Departure from normal.	Mean max. +2.	Departure from normal.	Mean maximum.	Mean minimum.	Highest.	Lowest.	Total.	Departure from normal.	Total snowfall.
St. Johns, Newfoundland...	29.75	29.89	-0.02	43.4	+2.9	50.3	36.6	82	-2	58.20	+3.57	85.7
Sydney, Cape Breton Island	29.89	29.93	-0.01	44.4	+3.1	52.8	37.0	86	-8	58.62	+8.34	77.0
Halifax, Nova Scotia.....	29.85	29.96	-0.01	45.1	+2.3	52.3	37.1	86	-1	63.69	+6.66	65.9
Grand Manan, New Brunswick	29.90	29.95	-0.02	44.8	+2.0	51.6	38.0	81	-4	33.57	-3.58	57.6
Yarmouth, Nova Scotia.....	29.89	29.96	-0.02	45.1	+1.9	52.0	38.1	75	4	41.63	-8.70	62.4
Charlottetown, Prince Edward Island	29.89	29.93	-0.01	43.5	+2.5	50.4	36.6	84	-8	42.62	+1.00	86.0
Chatham, New Brunswick...	29.93	29.95	+0.01	41.4	+2.7	50.4	32.5	92	-20	44.43	+3.14	96.8
Father Point, Quebec.....	29.89	29.91	-0.02	37.3	+2.5	44.6	29.9	81	-12	37.88	+4.89	101.6
Quebec, Quebec.....	29.62	29.95	-0.03	40.0	+1.8	47.8	32.1	90	-21	41.30	-0.42	100.1
Montreal, Quebec.....	29.75	29.96	-0.03	43.6	+2.1	50.5	37.4	86	-16	41.82	+1.83	100.4
Stonecliffe, Ontario.....	29.35	29.97	-0.02	39.6	+1.4	51.4	28.4	92	-33	19.65	-10.81	.....
Ottawa, Ontario.....	29.71	30.04	+0.04	42.5	+1.9	50.9	34.2	88	-25	30.86	-1.74	82.6
Kingston, Ontario.....	29.68	30.00	-0.01	44.2	+1.1	51.8	36.6	83	-16	33.36	+0.55	64.8
Toronto, Ontario.....	29.61	29.99	-0.03	46.4	+2.2	55.0	37.8	93	-10	33.78	+0.06	70.8
White River, Ontario.....	28.62	29.96	-0.02	35.0	+2.9	46.2	22.2	86	-45	28.06	+3.27	84.2
Port Stanley, Ontario.....	29.36	30.01	-0.02	45.1	+0.4	53.4	36.7	88	-15	38.42	+4.00	108.7
Southampton, Ontario.....	29.30	.....	.....	43.8	+1.4	52.0	35.7	85	-8	36.33	+2.12	136.6
Parry Sound, Ontario.....	29.29	29.99	-0.01	42.3	+2.1	52.1	32.5	95	-24	38.09	-0.18	147.0
Port Arthur, Ontario.....	29.28	29.99	-0.01	38.4	+4.0	48.5	28.3	87	-30	16.55	-8.21	34.6
Winnipeg, Manitoba.....	29.17	30.02	+0.02	38.0	+4.9	49.2	26.8	96	-42	16.69	-4.29	67.9
Minnedosa, Manitoba.....	28.14	29.99	-0.01	36.2	+4.6	48.3	24.4	104	-40	13.58	-2.87	29.8
Qu'Appelle, Saskatchewan	27.68	29.96	-0.02	36.2	+2.9	46.9	25.7	88	-41	18.94	+2.86	.....
Medicine Hat, Alberta.....	27.67	29.96	0.00	46.1	+5.8	57.4	34.7	103	-30	6.97	-6.83	.....
Swift Current, Saskatchewan	27.40	30.00	+0.03	40.3	+2.8	51.4	29.1	98	-27	10.13	-5.34	.....
Calgary, Alberta.....	26.38	29.94	+0.01	40.4	+3.2	52.1	28.6	92	-32	12.03	-2.84	30.8
Banff, Alberta.....	25.36	29.99	+0.06	37.0	+2.3	47.8	26.1	85	-35	16.32	-5.59	69.8
Edmonton, Alberta.....	27.64	29.95	+0.02	38.4	+2.8	51.2	25.6	87	-39	14.93	-0.90	34.7
Prince Albert, Saskatchewan	28.38	29.96	-0.02	35.1	+4.6	45.7	24.5	87	-46	7.40	-7.51	.....
Battleford, Saskatchewan...	28.21	29.98	+0.01	36.6	+3.9	48.0	25.1	95	-40	7.85	-6.08	.....
Kamloops, British Columbia	28.68	29.96	+0.03	48.5	+1.4	58.6	38.4	95	-8	7.69	-3.94	20.8
Victoria, British Columbia...	29.95	30.05	+0.05	49.6	+1.0	56.3	43.0	87	19	27.23	-10.91	8.9
Barkerville, British Columbia	25.61	29.94	+0.04	34.4	-1.8	42.3	28.0	74	-25	34.69	+1.13	122.1
Dawson, Yukon.....	28.76	.....	.....	21.3	.....	31.6	11.1	86	-54	13.18	.....	73.5
Hamilton, Bermuda.....	29.98	30.14	+0.05	69.0	-0.7	74.0	64.1	89	46	52.07	-9.84	0.0

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, 1910); **V** = continuous records of wind (velocity only) (on December 31, 1910);
T = continuous records of temperature (on December 31, 1910); **R** = continuous records of rainfall (on December 31, 1910);
W = continuous records of wind (direction and velocity) (on December 31, 1910); **S** = continuous records of sunshine (on December 31, 1910).

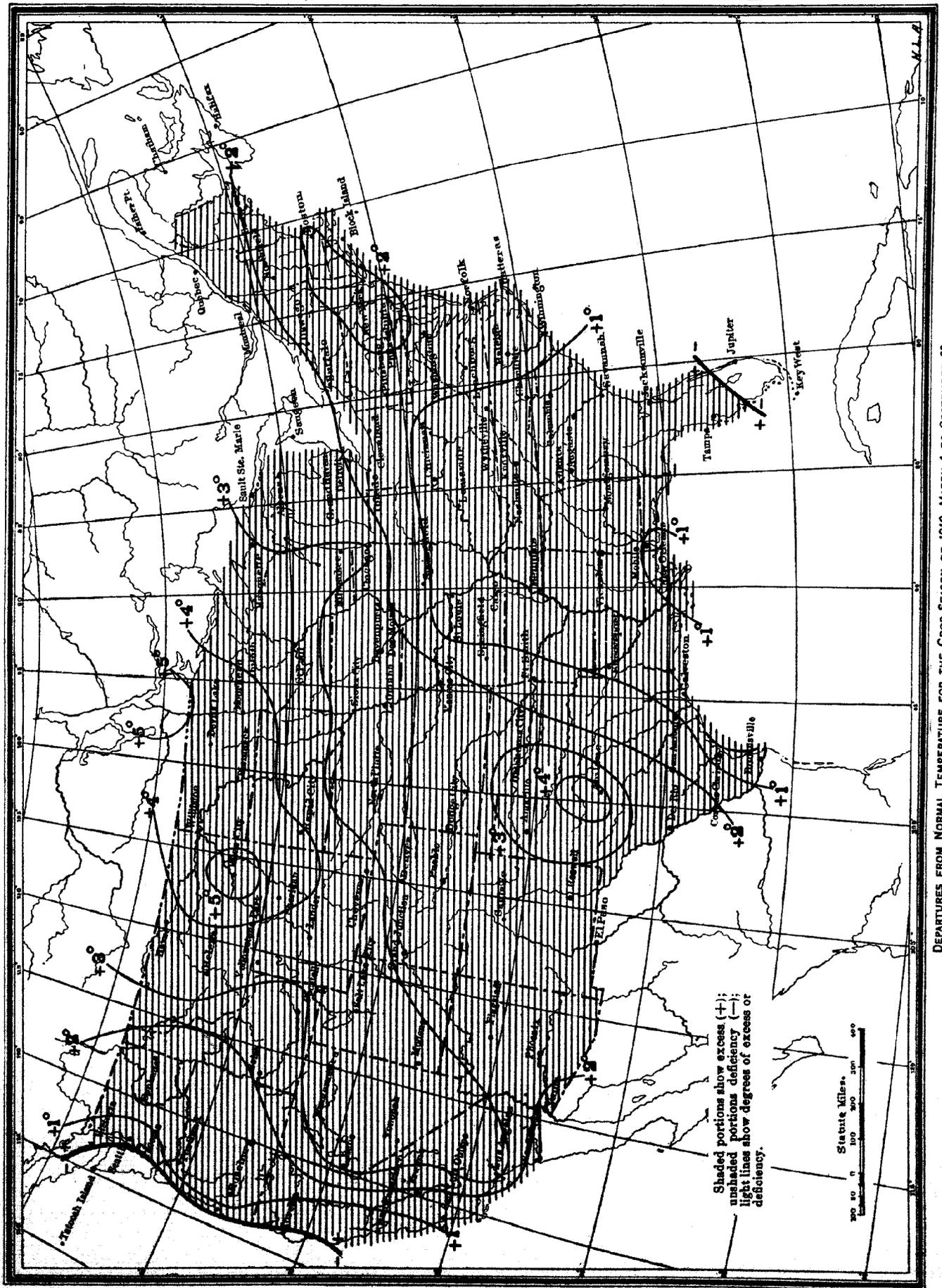
SUMMARY OF STATIONS IN OPERATION DURING THE YEAR.

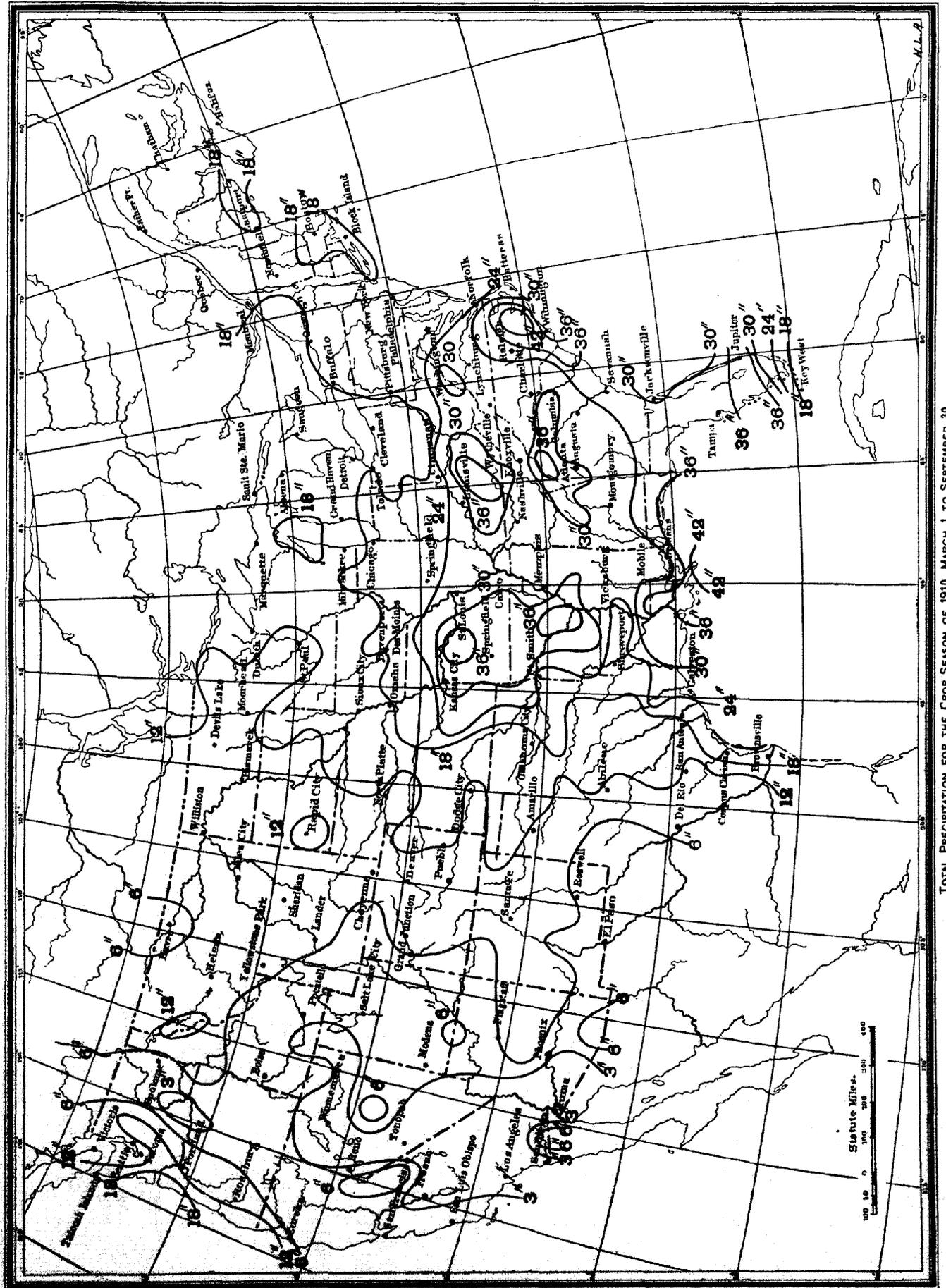
Taking two observations daily (all elements).....	167
Taking one observation daily (all elements).....	48
Taking one observation daily (temperature, rainfall, wind, and weather).....	21
Taking one observation daily (temperature and rainfall only, cotton, sugar, and rice regions).....	152
Taking one observation daily (temperature and rainfall only, corn and wheat region).....	133
Taking one observation daily (river and rainfall only).....	376
Taking one observation daily (rainfall only).....	29
Snowfall stations.....	295
Total paid stations.....	1, 221
Cooperative stations, about.....	3, 750
Grand total.....	4, 971

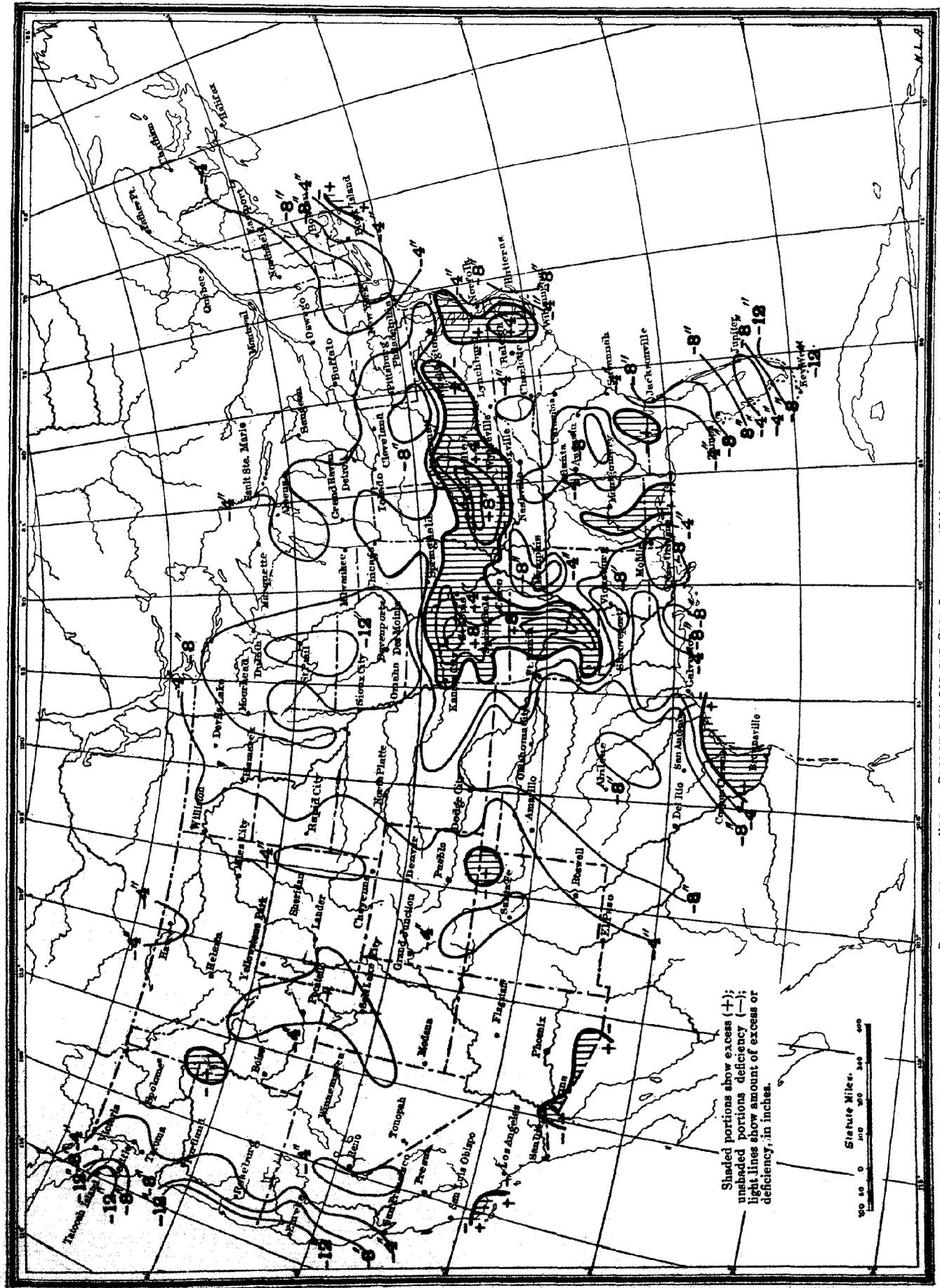
TABLE I.—LATITUDE, LONGITUDE, ELEVATION, ETC., OF WEATHER BUREAU STATIONS.

Stations.	Latitude.	Longitude.	Local meridian time faster or slower than 75th meridian.	Elevation Dec. 31, 1910.				Observations began.	Date of changes in elevation.
				Barometer above sea.	Thermometer above ground.	Rain gage above ground.	Anemometer above ground.		
Abilene, PTWRS	32 23	99 40	1 39 S.	1, 738	{ 45 10	{ 36 3	{ 54 52	Sept. 14, 1885	Jan. 8, 1910.
Albany, PTWRS	42 39	73 45	05 F.	97	{ 102 100	{ 115 115	{ Dec. 22, 1873 Sept. 10, 1872		
Alpena, PTWRS	45 05	83 30	34 S.	609	{ 13 4	{ 92 49	{ Jan. 1, 1892 Oct. 16, 1905		
Amarillo, PTWRS	35 13	101 50	1 47 S.	3, 676	{ 10 3	{ 49 57	{ Nov. 13, 1909 Aug. 22, 1902		
Anniston, PTWRS	33 39	85 50	43 S.	741	{ 9 3	{ 57 57	{		
Arcadia.....	27 13	81 52	27 S.	.....	.....	.....	.....
Asheville, PTWRS	35 36	82 32	30 S.	2, 255	{ 53 70	{ 46 61	{ 75 84	July 1, 1910.	
Atlanta, PTWRS	33 45	84 23	38 S.	1, 174	{ 190 182	{ 216 216	{ 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.







LIST OF OBSERVING STATIONS.

TABLE 1.—LATITUDE, LONGITUDE, ELEVATION, ETC., OF WEATHER BUREAU STATIONS—Continued.

Stations.	Latitude.	Longitude.	Local meridian time faster or slower than 75th meridian.	Elevation Dec. 31, 1910.				Observations began.	Date of changes in elevation.
				Barometer above sea.	Thermometer above ground.	Rain gage above ground.	Anemometer above ground.		
Atlantic City, PTWRS...	39 22	74 25	02 F.	52	37	33	48	Dec. 10, 1873	
Augusta, PTWRS...	33 28	81 54	28 S.	180	89	54	97	Nov. 2, 1870	
Baker City, PTWRS...	44 46	117 50	2 51 S.	3,471	48	38	58	July 9, 1889	
Baltimore, PTWRS...	39 18	76 37	06 S.	123	100	90	113	Jan. 1, 1871	
Bentonville, PTWRS...	36 22	94 12	1 17 S.	1,303	11	3	44	Mar. 16, 1906	
Billings...	45 47	108 30	2 14 S.	3,139	5	3	...	May 1, 1909	
Binghamton, PTWRS...	42 08	75 55	04 S.	871	78	71	88	Oct. 1, 1896	
Birmingham, PTWRS...	33 32	86 50	47 S.	700	11	3	48	Sept. 14, 1895	
Bismarck, PTWRS...	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, PTWRS...	41 10	71 36	14 F.	26	11	3	46	Sept. 1, 1880	
Boise, PTWRS...	43 37	116 08	2 45 S.	2,739	78	72	86	July 1, 1877	
Boston, PTWRS...	42 21	71 04	16 F.	125	115	154	188	Nov. 1, 1870	
Brownsville...	26 00	97 26	1 30 S.	57	4	2	...	Nov. 18, 1875	
Buffalo, PTWRS...	42 53	78 53	16 S.	767	178	168	206	Nov. 1, 1870	
Burlington, PTWRS...	44 29	73 12	07 F.	404	11	3	48	Mar. 29, 1906	
Cairo, PTWRS...	37 00	89 10	57 S.	356	87	80	93	June 1, 1871	
Canton, PTWRS...	44 36	75 10	01 S.	448	10	4	{ 71 61	July 1, 1906	Feb. 1, 1910
Canyon City...	38 26	105 15	2 01 S.	...	...	...	...	July 1, 1910	
Cape Henry, PTWRS...	36 56	76 00	04 S.	18	{ 11 9	43	58	Dec. 15, 1873	
Cape May, TW...	38 56	74 51	01 F.	17	{ 48 9	41	52	July 16, 1897	May 22, 1907
Charles City, PTWRS...	43 04	92 38	1 11 S.	1,015	10	4	49	Nov. 1, 1904	Oct. 1, 1909
Charleston, PTWRS...	32 47	79 56	20 S.	48	{ 14 11	76	92	Jan. 5, 1871	Sept. 16, 1910
Charlotte, PTWRS...	35 13	80 51	23 S.	773	68	60	76	Oct. 6, 1878	
Chattanooga, PTWRS...	35 04	85 14	41 S.	762	189	167	213	Sept. 12, 1875	
Cheyenne, PTWRS...	41 08	104 48	1 59 S.	6,088	56	49	64	Nov. 1, 1870	
Chicago, PTWRS...	41 53	87 37	50 S.	823	140	133	310	do.	
Cincinnati, PTWRS...	39 06	84 30	38 S.	628	152	145	160	do.	
Cleveland, PTWRS...	41 30	81 42	27 S.	762	190	163	201	do.	
Columbia, Mo., PTWRS...	38 57	92 20	1 09 S.	784	11	3	84	Aug. 21, 1889	
Columbia, S. C., PTWRS...	34 00	81 03	24 S.	351	41	32	57	June 5, 1887	
Columbus, PTWRS...	39 58	83 00	32 S.	824	173	171	222	July 1, 1878	
Concord, PTWRS...	43 12	71 32	14 F.	288	70	62	79	Nov. 1, 1902	
Concordia, PTWRS...	39 35	97 41	1 31 S.	1,398	42	35	50	May 1, 1885	
Corinth...	34 57	88 26	54 S.	470	50	45	...	July 1, 1909	
Corona...	39 56	105 47	2 03 S.	...	...	...	...	Nov. 13, 1906	
Corpus Christi, PTWRS...	27 49	97 25	1 30 S.	20	69	61	77	Feb. 1, 1887	
Davenport, PTWRS...	41 30	90 38	1 03 S.	606	71	65	79	May 24, 1871	
Del Monte...	36 35	121 50	3 07 S.	...	...	...	...	Nov. 10, 1910	
Del Rio, PTWRS...	29 20	100 53	1 44 S.	944	8	3	57	Nov. 9, 1905	
Denver, PTWRS...	39 45	105 00	2 00 S.	5,291	129	119	{ 136 172	Nov. 19, 1871	Mar. 1, 1910
Des Moines, PTWRS...	41 35	93 37	1 14 S.	861	84	76	{ 101 98	July 29, 1877	Oct. 31, 1910
Detroit, PTWRS...	42 20	83 03	32 S.	730	218	214	258	Nov. 1, 1870	
Devils Lake, PTWRS...	48 07	98 52	1 35 S.	1,482	11	4	44	Dec. 7, 1904	
Dodge, PTWRS...	37 45	100 00	1 40 S.	2,509	11	3	51	Sept. 15, 1874	
Dubuque, PTWRS...	42 30	90 44	1 03 S.	698	100	95	115	July 2, 1873	
Duluth, PTWRS...	46 47	92 06	1 08 S.	1,133	11	3	47	Nov. 1, 1870	
Durango, PTWRS...	37 16	107 52	2 11 S.	6,546	18	3	56	Dec. 20, 1904	
Eagle...	64 46	141 12	4 25 S.	815	6	...	...	June 24, 1909	
Eastport, PTWRS...	44 54	66 59	32 F.	76	67	62	85	Apr. 1, 1873	
Elkins, PTWRS...	38 53	79 49	19 S.	1,940	41	34	50	Jan. 1, 1899	
El Paso, PTWRS...	31 47	106 30	2 06 S.	3,762	110	102	133	Apr. 1, 1878	
Erie, PTWRS...	42 07	80 05	20 S.	714	92	82	102	May 25, 1873	
Escanaba, PTWRS...	45 48	87 05	48 S.	612	{ 40 54	33	82	May 24, 1871	Apr. 30, 1910
Eureka, PTWRS...	40 48	124 11	3 17 S.	62	62	55	80	Jan. 1, 1887	
Evansville, PTWRS...	37 58	87 33	50 S.	431	72	66	82	Dec. 1, 1897	
Flagstaff, PTWRS...	35 12	111 37	2 26 S.	6,907	8	3	57	Sept. 9, 1898	

1 Observations suspended. Office destroyed by fire.

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

TABLE 1.—LATITUDE, LONGITUDE, ELEVATION, ETC., OF WEATHER BUREAU STATIONS—Continued.

Stations.	Latitude.	Longitude.	Local meridian time faster or slower than 75th meridian.	Elevation Dec 31, 1910.				Observations began.	Date of changes in elevation.
				Barometer above sea.	Thermometer above ground.	Rain gage above ground.	Anemometer above ground.		
Fort Smith, PTWRS	35 22	94 24	1 18 S.	457	79	72	94	Apr. 13, 1879	
Fort Worth, PTWRS	32 43	97 15	1 29 S.	670	106	51	114	Sept. 1, 1898	
Fresno, PTWRS	36 43	119 49	2 59 S.	330	62	54	70	Aug. 18, 1887	
Galveston, PTWRS	29 18	94 50	1 19 S.	54	106	98	112	Apr. 19, 1871	
Grand Haven, PTWRS	43 05	86 13	45 S.	632	54	49	92	May 24, 1871	
Grand Junction, PTWRS	39 09	108 33	2 14 S.	4,608	43	37	51	Jan. 1, 1899	
Grand Rapids, PTWRS	42 58	85 40	43 S.	707	127	121	162	July 1, 1903	
Green Bay, PTWRS	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	Nov. 10, 1910
Hannibal, PTWRS	39 41	91 20	1 05 S.	534	75	68	109	Apr. 16, 1892	
Harrisburg, PTWRS	40 16	76 52	07 S.	374	94	88	104	July 1, 1888	
Hartford, PTWRS	41 46	72 40	09 F.	159	122	116	140	Oct. 7, 1904	
Hatteras, PTWRS	35 15	75 40	03 S.	11	12	34	47	Dec. 1, 1880	
Havre, PTWRS	48 34	109 40	2 19 S.	2,505	11	4	44	May 16, 1892	
Helena, PTWRS	46 34	112 04	2 28 S.	4,110	8	3	56	Apr. 1, 1880	
Honolulu, PTWRS	21 19	157 52	5 31 S.	38	111	99	119	Sept. 1, 1904	
Houghton, PTWRS	47 07	88 34	54 S.	668	66	57	74	Aug. 26, 1900	
Houston, PTWRS	29 47	95 24	1 22 S.	138	111	104	121	Sept. 16, 1909	
Huron, PTWRS	44 21	98 14	1 33 S.	1,306	56	52	67	July 1, 1881	
Independence, PTWRS	36 48	118 12	2 53 S.	3,910	11	4	42	Dec. 1, 1894	
Indianapolis, PTWRS	39 46	86 10	45 S.	822	154	146	164	Feb. 10, 1871	
Iola, PTWRS	37 55	95 25	1 22 S.	984	11	3	50	Aug. 20, 1905	
Ithaca, PTWRS	42 27	76 29	06 S.	836	82	4	100	.....
Jackson	32 04	90 10	1 01 S.	280	5	3	.....	Feb. 21, 1908	
Jacksonville, PTWRS	30 20	81 39	27 S.	43	96	88	129	Sept. 11, 1871	
Jupiter, PTWRS	26 57	80 07	20 S.	28	10	3	46	Jan. 1, 1888	
Kalispell, PTWRS	48 10	114 25	2 38 S.	2,962	11	4	34	May 3, 1899	
Kansas City, PTWRS	39 05	94 37	1 18 S.	963	161	141	181	Apr. 21, 1873	
Keokuk, P WRS	40 22	91 26	1 06 S.	614	64	56	78	July 16, 1871	
Key West, PTWRS	24 33	81 48	27 S.	22	10	3	53	Nov. 1, 1870	
Knoxville, PTWRS	35 56	83 58	36 S.	996	93	84	100	Jan. 20, 1871	
La Crosse, PTWRS	43 49	91 15	1 05 S.	714	11	3	48	Oct. 15, 1872	
Lander, PTWRS	42 50	108 45	2 15 S.	5,372	26	18	36	Aug. 1, 1891	
Lansing, PTWRS	42 44	84 26	38 S.	878	11	3	62	May 1, 1910	
La Salle, PTWRS	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	July 18, 1910
Lewiston, PTWRS	46 25	117 02	2 48 S.	757	10	4	51	Oct. 1, 1900	
Lexington, PTWRS	38 02	84 33	38 S.	989	75	68	102	Oct. 1, 1872	
Lincoln, PTWRS	40 49	96 45	1 27 S.	1,189	11	4	84	Aug. 8, 1894	
Little Rock, PTWRS	34 45	92 06	1 08 S.	357	139	132	147	Apr. 21, 1873	
Los Angeles, PTWRS	34 03	118 15	2 53 S.	338	159	151	191	July 1, 1877	
Louisville, PTWRS	38 15	85 45	43 S.	525	111	103	132	Sept. 11, 1871	
Lynchburg, PTWRS	37 25	79 09	17 S.	681	83	77	88	May 24, 1871	
Macon, PTWRS	32 50	83 38	35 S.	370	78	71	87	Apr. 8, 1899	
Madison, PTWRS	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, PTWRS	46 34	87 24	50 S.	734	77	70	116	May 11, 1871	
Marshfield	43 22	124 17	3 17 S.	36	3	2	.....	May 1, 1908	Sept. 1, 1910
Memphis, PTWRS	35 09	90 03	1 00 S.	399	76	69	97	Feb. 28, 1871	
Meridian, PTWRS	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, PTWRS	43 02	87 54	52 S.	681	122	116	139	Nov. 1, 1870	
Minneapolis, PTWRS	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, PTWRS	30 41	88 02	52 S.	57	98	91	106	Nov. 7, 1870	
Modena, PTWRS	37 48	113 54	2 36 S.	5,479	10	2	43	Jan. 1, 1901	
Montgomery, PTWRS	32 23	86 18	45 S.	223	100	71	112	Nov. 9, 1870	
Moorhead, PTWRS	46 52	96 44	1 27 S.	940	8	3	57	Jan. 31, 1881	
Mount Tamalpais, PTWRS	37 56	122 35	3 10 S.	2,375	11	5	18	Sept. 2, 1898	
Mount Weather, PTWRS	39 04	77 54	12 S.	1,725	10	3	75	Nov. 1, 1904	Feb. 18, 1910
Nantucket, PTWRS	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	

LIST OF OBSERVING STATIONS.

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

Stations.	Latitude.	Longitude.	Local meridian time faster or slower than 75th meridian.	Elevation Dec. 31, 1910.				Observations began.	Date of changes in elevation.
				Barometer above sea.	Thermometer above ground.	Rain gauge above ground.	Anemometer above ground.		
			<i>h. m.</i>	<i>Feet.</i>	<i>Feet.</i>	<i>Feet.</i>	<i>Feet.</i>		
Nashville, PTWRS	36 10	86 47	47 S.	546	168	161	191	Nov. 1, 1870	
New Haven, PTWRS	41 18	72 56	08 F.	106	116	111	155	Dec. 10, 1872	
New Orleans, PTWRS	29 58	90 04	1 00 S.	51	90	78	121	Nov. 1, 1870	Nov. 10, 1910
New York, PTWRS	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, PTWRS	36 51	76 17	05 S.	91	102	96	111	Jan. 1, 1871	
Northfield, PTWRS	44 10	72 41	09 F.	876	16	3	70	Mar. 1, 1887	June 1, 1910
North Head, PTWRS	46 16	124 04	3 16 S.	211	11	3	56	Aug. 1, 1902	
North Platte, PTWRS	41 08	100 45	1 43 S.	2,821	11	3	51	Sept. 18, 1874	
North Yakima.....	46 36	120 34	3 02 S.	1,076	4	4		Mar. 1, 1909	
Oklahoma, PTWRS	35 26	97 33	1 30 S.	1,214	10	3	47	Nov. 1, 1890	
Omaha, PTWRS	41 16	95 56	1 24 S.	1,105	115	107	121	Nov. 1, 1870	
Oswego, PTWS	43 29	76 35	06 S.	335	76	68	91	do.	
Palestine, PTWRS	31 45	95 40	1 23 S.	510	73	68	79	Dec. 3, 1881	
Parkersburg, PTWRS	39 16	81 36	26 S.	638	77	70	84	July 1, 1888	
Pasadena.....	34 07	118 10	2 53 S.					Dec. 1, 1908	
Paso Robles.....	35 38	120 41	3 03 S.					July 1, 1909	
Pensacola, PTWRS	30 25	87 13	49 S.	56	140	131	183	Oct. 27, 1879	
Peoria, PTWRS	40 43	89 36	58 S.	609	11	4	45	Feb. 1, 1905	
Philadelphia, PTWRS	39 57	75 09	01 S.	117	116	114	184	Jan. 1, 1871	Dec. 30, 1910
Phoenix, PTWRS	33 28	112 00	2 28 S.	1,108	50	41	56	Aug. 6, 1895	
Pierre, PTWRS	44 22	100 21	1 41 S.	1,572	70	63	75	July 1, 1891	
Pittsburgh, PTWRS	40 32	80 02	20 S.	842	336	329	352	Nov. 1, 1870	Mar. 20, 1910
Pocatello, PTWRS	42 52	112 29	2 30 S.	4,477	46	37	54	July 1, 1899	
Point Reyes Light, PWRS	38 11	122 51	3 11 S.	490	7	3	18	Mar. 1, 1889	
Port Crescent, PTWRS	48 08	123 41	3 15 S.	259	8	4	53	Oct. 1, 1898	
Port Huron, PTWRS	43 00	82 26	30 S.	638	70	63	120	July 25, 1874	
Portland, Me., PTWRS	43 39	70 15	19 F.	103	81	75	117	Jan. 15, 1871	
Portland, Oreg., PTWRS	45 32	122 43	3 11 S.	153	68	63	106	Nov. 1, 1870	
Providence, PTWRS	41 50	71 25	14 F.	160	141	134	165	Oct. 22, 1904	
Pueblo, PTWRS	38 18	104 36	1 58 S.	4,685	80	72	86	July 1, 1888	
Raleigh, PTWRS	35 45	78 37	14 S.	376	103	94	110	Apr. 1, 1884	
Rapid City, PTWRS	44 04	103 12	1 53 S.	3,234	46	35	50	Jan. 24, 1881	
Red Bluff, PTWRS	40 10	122 15	3 09 S.	332	50	40	56	July 1, 1877	
Redlands.....	34 03	117 12	2 49 S.					Dec. 1, 1908	
Reno, PTWRS	39 32	119 49	2 59 S.	4,532	56	47	63	Nov. 11, 1905	Mar. 1, 1910
Richmond, PTWRS	37 32	77 27	10 S.	144	74	67	81	Oct. 5, 1897	Jan. 30, 1910
Riverside.....	33 58	117 22	2 49 S.		11	3	52	Feb. 10, 1908	
Rochester, PTWRS	43 08	77 42	11 S.	523	86	77	102	Nov. 1, 1870	
Roseburg, PTWRS	43 13	123 20	3 13 S.	510	9	4	57	July 15, 1877	
Roswell, PTWRS	33 24	104 27	1 58 S.	3,578	9	4	57	Dec. 20, 1904	
Sacramento, PTWRS	38 35	121 30	3 06 S.	69	106	100	117	July 1, 1877	
St. Joseph, PTWRS	39 49	94 51	1 19 S.	967	11	3	49	Apr. 25, 1910	
St. Louis, PTWRS	38 38	90 12	1 01 S.	567	208	199	217	Nov. 1, 1870	
St. Paul, PTWRS	44 58	93 03	1 12 S.	837	171	163	179	do.	
Salt Lake City, PTWRS	40 46	111 54	2 28 S.	4,360	147	141	189	Mar. 19, 1874	
San Antonio, PTWRS	29 27	98 28	1 34 S.	701	80	72	91	Jan. 2, 1876	
San Bernardino.....	34 06	117 18	2 49 S.					Dec. 1, 1908	
San Diego, PTWRS	32 43	117 10	2 49 S.	87	94	86	102	Nov. 1, 1871	
Sand Key, PTWRS	24 27	81 53	28 S.	25	41	40	71	June 1, 1903	
Sandusky, PTWRS	41 25	82 40	31 S.	629	62	55	70	Aug. 2, 1877	
San Francisco, PTWRS	37 48	122 26	3 10 S.	155	200	191	204	Feb. 2, 1871	
San Jose, PTWRS	37 20	121 54	3 08 S.	141	12	3	110	Sept. 28, 1905	
San Juan, PTWRS	18 29	66 07	36 F.	82	48	40	90	Oct. 31, 1898	
San Luis Obispo, PTWRS	35 18	120 39	3 03 S.	201	47	40	54	June 1, 1885	
Santa Fe, PTWRS	35 41	105 57	2 04 S.	7,013	8	3	56	Nov. 20, 1871	
Sault Ste. Marie, PTWRS	46 30	84 21	37 S.	614	11	3	61	Aug. 5, 1877	
Savannah, PTWRS	32 05	81 05	24 S.	65	150	143	194	Jan. 1, 1871	
Scranton, PTWRS	41 24	75 42	03 S.	805	111	102	119	Aug. 17, 1900	

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

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, 1910.				Observations began.	Date of changes in elevation.
				Barometer above sea.	Thermometer above ground.	Rain gage above ground.	Anemometer above ground.		
			<i>h. m.</i>	<i>Feet.</i>	<i>Feet.</i>	<i>Feet.</i>	<i>Feet.</i>		
Seattle, PTWRS	47 38	122 20	3 09 S.	123	185	179	224	May 1, 1893	
Sheridan, PTWRS	44 48	106 57	2 08 S.	3,790	10	2	47	Apr. 29, 1907	
Shreveport, PTWRS	32 30	93 40	1 15 S.	249	77	77	84	Sept. 3, 1871	
					68	59	74		
Sioux City, PTWRS	42 29	96 24	1 26 S.	1,135	96	86	164	Dec. 1, 1887	May 1, 1910
					94				July 7, 1910
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, PTWRS ..	37 42	123 00	3 12 S.	30	9	3	17	June 4, 1903	
Spokane, PTWRS	47 40	117 25	2 50 S.	1,929	101	94	110	Feb. 1, 1881	
Springfield, Ill., PTWRS ..	39 48	89 39	59 S.	644	10	4	91	July 1, 1879	
Springfield, Mo., PTWRS ..	37 12	93 18	1 13 S.	1,324	98	6	104	June 3, 1882	
Summit.....	39 18	120 20	3 01 S.					Nov. 16, 1905	
Syracuse, PTWRS	43 02	76 10	05 S.	597	97	65	113	Aug. 22, 1902	
Tacoma, PTWRS	47 16	122 23	3 10 S.	213	113	104	120	May 1, 1897	
Tampa, PTWRS	27 57	82 27	30 S.	35	79	71	96	Mar. 13, 1890	
Tanana.....	65 12	152 00	5 08 S.		5	1		Sept. 9, 1909	
Tatoosh Island, PTWRS ..	48 23	124 44	3 19 S.	86	7	4	57	Nov. 22, 1902	
Taylor, PTWRS	30 35	97 20	1 29 S.	583	55	48	63	Nov. 13, 1901	
Thomasville, PTWRS	30 48	83 58	36 S.	273	8	4	57	Aug. 20, 1905	
Toledo, PTWRS	41 40	83 34	34 S.	628	207	201	46	Nov. 1, 1870	
Tonopah, PTWRS	38 04	117 14	2 49 S.	6,090	12	9	20	July 9, 1906	
Topeka, PTWRS	39 03	95 41	1 23 S.	983	85	76	101	June 1, 1887	
Valdez.....	61 06	146 13	4 45 S.	10	8	5		Sept. 14, 1909	
Valentine, PTWRS	42 50	100 32	1 42 S.	2,598	47	36	54	Sept. 1, 1885	
Vicksburg, PTWRS	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, PTWRS	46 02	118 20	2 53 S.	1,000	71	63	79	Dec. 1, 1885	
Washington, PTWRS	38 54	77 03	08 S.	112	62	42	85	Nov. 1, 1870	
Wichita, PTWRS	37 41	97 20	1 29 S.	1,358	98	91	121	July 1, 1888	
Williston, PTWRS	48 09	103 35	1 54 S.	1,872	14	4	56	Nov. 24, 1893	
Wilmington, PTWRS	34 14	77 57	12 S.	78	81	76	91	Jan. 1, 1871	
Winnemucca, PWRS	40 58	117 43	2 51 S.	4,344	18	3	56	July 1, 1877	
Wytheville, PTWRS	36 56	81 05	24 S.	2,293	40	32	47	Nov. 10, 1902	
Yankton, PTWRS	42 54	97 28	1 30 S.	1,233	49	42	57	Apr. 1, 1873	
Yellowstone Park, PTWRS ..	44 58	110 42	2 23 S.	6,200	11	4	48	Dec. 2, 1903	
Yuma, PTWS	32 45	114 36	2 38 S.	141	9	2	58	Oct. 4, 1875	

LIST OF OBSERVING STATIONS.

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, 1910.				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.....	12 06	68 56	24 F.	75				Aug. 9, 1898	
Jamaica.¹									
Kingston.....	17 58	76 48	07 S.	286				Aug. 16, 1898	
Trinidad.¹									
Port of Spain, P.....	10 35	61 30	54 F.	40				Aug. 7, 1898	
Dominica.¹									
Roseau.....	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, July 1 to November 15.

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

TABLE II.—CHANGES IN WEATHER BUREAU STATIONS DURING 1910.

Stations.	Latitude.	Longitude.	Date of establishment.	Stations.	Latitude.	Longitude.	Date of establishment.
ESTABLISHED.				DISCONTINUED.			
REGULAR.				REGULAR.			
St. Joseph, Mo.....	39 49	94 51	Apr. 25	Brawley, Cal.....	32 59	115 31	Apr. 30
Lansing, Mich.....	42 44	84 26	May 1	CORN AND WHEAT.			
SPECIAL METEOROLOGICAL.				RIVER.			
Brunswick, Mo.....			Apr. 19	Brunswick, Mo.....			Mar. 31
Canyon City, Colo.....			July 1	Tuscola, Ill.....			Sept. 30
Del Monte, Cal.....			Nov. 10	Washington, Ind.....			Do.
Elkins Ranch, Nev.....			Jan. 15	RIVER.			
Ellsworth, Me.....			Mar. 23	Black River Falls, Wis.....			Mar. 31
EXPERIMENT.				Brunswick, Mo.....			Do.
Wagon Wheel Gap, Colo.....			Oct. 22	Carrizo, Tex.....			Aug. 1
RIVER.				Columbus, Ga.....			Nov. 9
Alma, Mich.....			Feb. 1	Hidalgo, Tex.....			Aug. 1
Anderson, Ind.....			Dec. 1	Oakdale, Ga.....			Apr. 30
Attica, Ind.....			Do.	Rio Grande City, Tex.....			Aug. 1
Bluffton, Ind.....			Do.	Roma, Tex.....			July 31
Bridgeport, Mich.....			Feb. 1	Santa Maria, Tex.....			Do.
Brunswick, Mo.....			Do.	RAINFALL.			
Chesaning, Mich.....			Feb. 1	Albany, Mo.....			Jan. 31
Delaware, Ohio.....			June 16	Griffin Corners, N. Y.....			Do.
Elizabethtown, N. C.....			Sept. 26	Logansport, Ind.....			Nov. 30
Enfield, N. C.....			July 1	North Stratford, N. H.....			Oct. 31
Flint, Mich.....			Feb. 1	Osceola, Mo.....			Jan. 31
Foster, Mich.....			Do.	Trenton, Mo.....			Do.
Logansport, Ind.....			Dec. 1	Vincennes, Ind.....			Nov. 30
Mapleton, Utah.....			Do.	Weston, Colo.....			June 10
Midland, Mich.....			Feb. 1	SNOWFALL.			
Mission, Tex.....			Aug. 1	Amizett, N. Mex.....			Jan. 31
Mount Pleasant, Mich.....			Feb. 1	Baker, Utah.....			Sept. 15
Norcross, Ga.....			May 1	Bassett Creek, Mont.....			Aug. 31
Osceola, Mo.....			Feb. 1	Basin, Utah.....			Sept. 15
Ottawa, Kans.....			Do.	Battle Creek, Mont.....			Aug. 31
Owasso, Mich.....			Do.	Barnes, Oreg.....			Feb. 28
Paines, Mich.....			Do.	Big Creek, Mont.....			Do.
Pattonsburg, Mo.....			Do.	Boreas, Colo.....			Oct. 31
Quincy, Ill.....			Apr. 1	Bridger Creek, Mont.....			Feb. 28
Rocky Mount, N. C.....			July 1	Bullion, Nev.....			Mar. 31
Saginaw, Mich.....			Feb. 1	Cableville, Oreg.....			Feb. 28
Shawneetown, Ill.....			June 1	Cataract Creek, Mont.....			Aug. 31
Trenton, Mo.....			Feb. 1	Cecils, Oreg.....			Do.
Vassar, Mich.....			Do.	Cinnabar Basin, Mont.....			Do.
RAINFALL.				Cooke, Mont.....			Do.
Calhoun Falls, S. C.....			Apr. 1	Como, Colo.....			Sept. 30
Hickory, Miss.....			Do.	Cottonwood Creek, Idaho.....			May 31
Madrid, Colo.....			June 11	Delphine, Mont.....			Aug. 31
Potosia, Iowa.....			May 1	Dorris, Cal.....			June 30
SNOWFALL.				Eldridge, Mont.....			Aug. 31
Centennial, Wyo.....			Dec. 16	Elkhorn Ranch, Oreg.....			Oct. 31
Gibbon, Oreg.....			Jan. 1	Emerland Bay, Cal.....			Feb. 28
Golden Falls, Oreg.....			Nov. 1	Emigrant Creek, Mont.....			Aug. 31
Skelton, Nev.....			Apr. 1	Este, S. Dak.....			Feb. 28
Sugar Creek, Oreg.....				Fairview, Cal.....			Apr. 30
Twin Sisters Lakes, Wash.....			Oct. 1	Filmore, Wyo.....			Nov. 30
Upper Clearum Valley, Wash.....			Do.	Fish Lake, Utah.....			Jan. 31
				Fishtail Creek, Mont.....			Aug. 31
				Four Hills, Cal.....			Oct. 31
				Friese Summit, Utah.....			Sept. 15

LIST OF OBSERVING STATIONS.

TABLE II.—CHANGES IN WEATHER BUREAU STATIONS DURING 1910—Continued.

Stations.	Latitude.	Longitude.	Date discontinued.	Stations.	Latitude.	Longitude.	Date discontinued.
DISCONTINUED—Contd.				DISCONTINUED—Contd.			
SNOWFALL—continued.				SNOWFALL—continued.			
Gold Creek, Mont.....	° /	° /	Aug. 31	Piedmont, S. Dak.....	° /	° /	Feb. 28
Golden Reef, Utah.....			Feb. 28	Placerville, Idaho.....			Aug. 31
Gooseberry Station, Utah.....			Jan. 31	Polaris, Mont.....			Do.
Hanna, S. Dak.....			Feb. 28	Rager Creek, Oreg.....			June 30
Hassell, Mont.....			Do.	Rambler, Wyo.....			Aug. 31
Hill City, S. Dak.....			Aug. 31	Rebers Ranch, Mont.....			Do.
Hopewell, N. Mex.....			Sept. 30	Reese Creek, Mont.....			Do.
Hoyts Canyon, Utah.....			Jan. 31	Richins Summit, Utah.....			Feb. 28
Jardine, Mont.....			Aug. 31	Rimini, Mont.....			Aug. 31
Kamela, Oreg.....			Do.	Sevier Mine, Utah.....			Sept. 15
Kleinsmith Creek, Mont.....			Feb. 28	Sheep Creek, Mont.....			Aug. 31
Koosharem Station, Utah.....			Jan. 31	Skyland, Oreg.....			Feb. 28
Lodgepole Creek, Mont.....			Feb. 28	Taneum, Wash.....			Do.
Mammoth Hot Springs, No. 2, Wyo.....			June 30	Tyee, Wash.....			Sept. 30
Meadow Creek, Mont.....			Aug. 31	Vega, Colo.....			Aug. 31
Merchant Valley, Utah.....			Sept. 15	Warfield, Idaho.....			Mar. 31
Merritt, S. Dak.....			Feb. 28	Warm Springs Creek, Mont.....			Aug. 31
Mill Canyon, Utah.....			Mar. 31	Wason, Colo.....			Do.
Mill Creek, Mont.....			Feb. 28	Watson, Mont.....			Do.
Mudd Creek, Mont.....			Do.	Wenaha Springs, Oreg.....			Dec. 31
Mystic, S. Dak.....			Do.	West Canyon, Utah.....			Feb. 28
North Willow Creek, Mont.....			Do.	West Rosebud Creek, Mont.....			Do.
Panguitch Lake, Utah.....			Sept. 15	Willow Creek, Mont.....			Do.

SUNSHINE, 1910.

The following tables give for 138 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 for 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.

Stations.	January.		February.		March.		April.		May.		June.	
	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.
Albany, N. Y.	95	33	134	45	196	53	185	46	242	53	224	49
Amarillo, Tex.	214	68	224	73	337	91	330	84	269	62	364	84
Asheville, N. C.	173	56	178	58	242	65	208	53	271	62	211	48
Atlanta, Ga.	147	46	150	49	253	68	230	59	268	62	229	53
Atlantic City, N. J.	138	45	188	62	242	65	260	65	263	59	249	56
Augusta, Ga.	167	53	181	59	296	80	291	75	303	70	265	62
Baltimore, Md.	120	40	188	62	264	71	242	61	292	66	283	63
Bentonville, Ark.	178	57	159	52	270	73	202	51	211	48	291	67
Binghamton, N. Y.	56	19	130	44	222	60	192	48	237	53	242	53
Birmingham, Ala.	154	49	158	51	258	70	205	52	251	58	217	50
Bismarck, N. Dak.	148	53	200	69	233	63	280	69	304	65	330	70
Block Island, R. I.	118	40	143	48	132	62	244	61	225	50	256	57
Boise, Idaho.	121	42	120	41	258	70	384	70	363	79	416	90
Boston, Mass.	123	42	171	58	259	70	236	59	233	52	259	57
Buffalo, N. Y.	26	9	153	52	270	73	337	59	313	69	310	67
Burlington, Vt.	85	30	129	44	195	53	212	53	208	46	257	55
Canton, N. Y.	81	28	118	41	181	49	145	36	209	45	270	58
Charles City, Iowa.	132	45	196	66	320	86	287	71	351	77	387	84
Charleston, S. C.	213	67	173	56	286	77	289	74	294	68	268	63
Chattanooga, Tenn.	121	39	141	46	247	67	173	44	271	62	230	53
Cheyenne, Wyo.	184	62	206	69	284	76	296	74	280	62	325	72
Chicago, Ill.	101	34	155	52	311	84	224	56	250	55	365	80
Cincinnati, Ohio.	91	30	150	50	284	77	243	61	265	60	303	68
Cleveland, Ohio.	42	14	104	35	234	63	186	46	240	53	295	65
Columbia, Mo.	149	49	182	61	325	88	213	53	248	56	326	73
Columbus, Ohio.	83	28	153	51	280	76	259	65	271	61	289	64
Concordia, Kans.	183	61	210	70	349	94	296	74	256	57	362	81
Denver, Colo.	151	50	190	64	318	86	301	75	311	70	359	80
Des Moines, Iowa.	150	51	140	47	291	78	207	52	247	55	298	66
Detroit, Mich.	73	25	125	42	247	67	179	45	278	62	305	67
Devils Lake, N. Dak.	142	51	189	66	265	72	294	71	319	68	378	79
Dodge, Kans.	194	63	226	74	316	85	300	76	249	56	279	63
Dubuque, Iowa.	125	42	185	62	310	84	230	57	290	64	374	82
Durango, Colo.	219	71	225	74	313	84	313	79	388	88	387	88
Eastport, Me.	99	35	119	41	187	51	171	42	226	49	249	53
Elkins, W. Va.	80	26	120	40	243	65	170	43	242	55	148	33
El Paso, Tex.	240	75	271	87	333	90	343	88	384	90	362	85
Erie, Pa.	99	33	169	57	292	79	279	69	324	72	331	73
Escanaba, Mich.	126	45	169	58	268	72	192	47	326	70	366	78
Eureka, Cal.	83	28	106	36	118	32	149	37	203	45	160	35
Flagstaff, Ariz.	232	74	265	86	314	85	329	84	401	92	398	92
Fort Smith, Ark.	190	61	157	51	274	74	230	59	235	54	308	71
Fresno, Cal.	153	50	202	67	279	75	344	87	412	94	431	98
Galveston, Tex.	231	71	135	43	284	76	286	74	294	70	329	79
Grand Haven, Mich.	58	20	114	39	252	68	208	52	260	57	354	77
Grand Junction, Colo.	180	59	225	75	323	87	314	79	389	88	396	89
Grand Rapids, Mich.	50	17	112	38	238	64	213	53	255	56	300	65
Green Bay, Wis.	126	44	177	61	284	77	241	59	315	68	356	76
Harrisburg, Pa.	98	33	143	48	212	57	232	58	269	60	259	58
Hartford, Conn.	121	41	159	54	238	64	233	58	227	50	217	48
Havre, Mont.	114	42	148	52	262	71	230	68	318	67	318	66
Helena, Mont.	189	68	158	55	270	73	291	71	341	73	334	70
Honolulu, Hawaii.	154	45	198	62	241	64	194	51	247	61	259	65
Houston, Tex.	236	73	159	51	268	72	233	73	256	61	284	67
Huron, S. Dak.	155	54	201	69	286	77	231	70	327	71	355	77

SUNSHINE—Continued.

Stations.	July.		August.		September.		October.		November.		December.		Annual.	
	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.
Albany, N. Y.....	266	57	220	51	182	49	184	54	59	20	116	41	2,104	46
Amarillo, Tex.....	376	85	350	84	312	84	312	89	284	92	234	77	3,606	81
Asheville, N. C.....	266	60	246	59	216	58	216	62	235	76	174	57	2,637	60
Atlanta, Ga.....	179	41	270	65	259	70	245	70	193	62	150	49	2,574	58
Atlantic City, N. J.....	356	79	278	66	253	68	244	70	182	60	171	58	2,824	63
Augusta, Ga.....	278	64	283	68	283	76	291	83	233	74	220	71	3,091	70
Baltimore, Md.....	350	77	279	66	266	71	258	74	155	52	141	48	2,838	63
Bentonville, Ark.....	311	70	313	75	268	72	275	79	242	79	193	64	2,914	66
Binghamton, N. Y.....	294	64	224	52	159	43	150	44	24	8	68	24	1,999	43
Birmingham, Ala.....	244	51	256	62	248	67	230	66	188	60	135	44	2,525	57
Bismarck, N. Dak.....	383	80	282	64	219	58	229	68	125	45	148	56	2,882	63
Block Island, R. I.....	354	77	306	72	258	69	246	72	154	52	136	47	2,670	59
Boise, Idaho.....	416	89	426	98	293	78	270	79	84	29	90	32	3,140	66
Boston, Mass.....	338	73	281	66	208	56	210	61	101	34	128	45	2,547	56
Buffalo, N. Y.....	406	87	298	69	209	56	203	59	57	19	88	31	2,569	54
Burlington, Vt.....	314	67	253	58	185	49	130	38	34	12	60	22	2,063	44
Canton, N. Y.....	297	63	260	60	184	49	121	36	52	18	97	35	2,016	43
Charles City, Iowa.....	410	88	329	76	253	68	245	72	136	47	163	58	3,209	70
Charleston, S. C.....	277	63	234	57	252	68	265	75	236	75	228	73	3,015	68
Chattanooga, Tenn.....	199	45	263	63	229	62	244	70	186	60	142	47	2,448	55
Cheyenne, Wyo.....	350	76	332	78	252	67	264	77	137	46	181	63	3,000	68
Chicago, Ill.....	360	78	291	68	223	60	245	71	132	45	120	42	2,778	60
Cincinnati, Ohio.....	247	54	357	84	227	61	244	70	145	48	113	38	2,668	58
Cleveland, Ohio.....	378	82	318	74	240	64	214	62	32	11	61	21	2,344	49
Columbia, Mo.....	333	74	287	68	189	51	270	78	188	62	189	64	2,898	65
Columbus, Ohio.....	298	66	333	78	207	55	266	77	102	34	77	27	2,619	57
Concordia, Kans.....	383	84	303	71	249	67	279	81	230	77	164	57	3,262	73
Denver, Colo.....	357	78	298	70	273	73	284	82	188	63	201	69	3,232	72
Des Moines, Iowa.....	288	62	258	60	200	53	251	73	166	56	154	54	2,651	59
Detroit, Mich.....	363	79	278	65	230	62	226	66	67	23	94	33	2,465	53
Devils Lake, N. Dak.....	386	80	266	60	215	57	206	61	96	34	107	41	2,863	62
Dodge, Kans.....	368	82	289	68	282	76	307	88	231	76	207	70	3,248	73
Dubuque, Iowa.....	349	76	232	54	200	53	225	66	148	50	141	50	2,810	62
Durango, Colo.....	357	80	326	78	300	80	243	70	220	72	196	65	3,487	77
Eastport, Me.....	274	58	285	66	187	50	135	40	75	26	43	16	2,050	44
Elkins, W. Va.....	219	48	239	56	184	49	200	58	62	20	82	28	1,990	43
El Paso, Tex.....	362	83	330	80	303	82	306	87	280	89	241	77	3,755	84
Erie, Pa.....	392	85	342	80	222	59	196	57	28	9	35	12	2,708	57
Escanaba, Mich.....	344	72	246	56	224	60	170	50	29	10	83	31	2,543	54
Eureka, Cal.....	144	31	143	33	132	35	148	43	81	27	93	32	1,560	34
Flagstaff, Ariz.....	303	69	279	67	313	84	305	87	259	83	243	80	3,641	82
Fort Smith, Ark.....	324	73	255	61	289	78	270	77	214	69	159	52	2,908	65
Fresno, Cal.....	430	96	418	100	338	91	300	86	240	79	120	40	3,669	80
Galveston, Tex.....	332	78	273	67	249	67	266	75	239	74	159	50	3,079	69
Grand Haven, Mich.....	349	75	252	59	203	54	196	57	44	15	56	20	2,346	49
Grand Junction, Colo.....	374	83	340	80	323	87	264	76	198	66	127	43	3,453	76
Grand Rapids, Mich.....	325	70	221	51	176	47	241	71	76	26	90	32	2,298	49
Green Bay, Wis.....	384	81	276	63	235	63	202	60	76	27	126	46	2,799	60
Harrisburg, Pa.....	334	73	274	65	223	60	234	68	97	32	117	40	2,490	54
Hartford, Conn.....	280	61	202	47	164	44	154	45	115	39	120	42	2,229	49
Havre, Mont.....	334	69	192	43	159	42	167	50	46	17	126	49	2,466	53
Helena, Mont.....	322	67	303	69	216	57	221	65	107	38	147	55	2,899	63
Honolulu, Hawaii.....	290	71	270	68	204	55	237	65	209	63	193	57	2,696	61
Houston, Tex.....	276	64	282	69	270	73	251	71	206	65	153	48	2,926	66
Huron, S. Dak.....	368	79	304	70	214	57	239	70	128	44	120	43	2,980	65

SUNSHINE—Continued.

Stations.	January.		February.		March.		April.		May.		June.	
	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.
Indianapolis, Ind.....	81	27	139	46	244	66	194	49	249	56	301	67
Jacksonville, Fla.....	172	53	139	45	292	78	300	77	303	72	284	67
Jupiter, Fla.....	141	43	121	38	194	52	306	80	274	65	247	60
Kalispell, Mont.....	78	28	93	33	211	57	227	55	302	64	309	64
Kansas City, Mo.....	149	49	174	58	329	89	224	56	235	53	324	73
Knoxville, Tenn.....	131	42	183	60	287	77	233	59	292	67	254	58
La Crosse, Wis.....	121	42	173	59	301	81	253	63	278	61	388	84
Lander, Wyo.....	178	61	215	73	309	83	331	82	347	78	383	83
La Salle, Ill.....	145	49	178	60	305	82	223	56	284	63	368	81
Lexington, Ky.....	76	25	143	47	263	71	210	53	265	60	293	66
Little Rock, Ark.....	190	61	156	51	270	73	211	54	237	55	241	56
Los Angeles, Cal.....	237	75	231	75	236	64	289	74	306	71	320	74
Louisville, Ky.....	114	37	161	53	304	82	243	61	264	60	322	73
Lynchburg, Va.....	129	42	169	56	271	73	253	64	301	68	255	58
Macon, Ga.....	184	58	152	49	260	70	245	63	290	67	252	59
Madison, Wis.....	113	39	161	55	297	80	208	52	254	56	350	76
Marquette, Mich.....	65	23	117	41	189	51	169	41	168	36	223	47
Memphis, Tenn.....	185	59	185	60	303	81	272	69	288	66	322	74
Meridian, Miss.....	190	59	160	52	276	74	256	66	304	71	274	64
Milwaukee, Wis.....	124	42	174	59	302	82	222	55	238	52	325	71
Mobile, Ala.....	182	56	124	40	256	69	262	68	263	62	243	57
Modena, Utah.....	189	62	203	67	265	71	299	75	366	83	394	89
Mount Tamalpais, Cal.....	140	46	160	53	222	59	306	77	352	80	394	89
Mount Weather, Va.....	119	39	168	56	276	74	235	59	314	71	258	58
New Haven, Conn.....	126	42	168	56	241	65	225	56	254	57	262	58
New Orleans, La.....	250	77	187	60	342	92	332	86	308	73	315	75
New York, N. Y.....	128	43	180	60	256	69	249	62	243	54	258	57
Norfolk, Va.....	163	53	180	59	258	70	257	65	293	67	237	54
Northfield, Vt.....	83	29	110	38	168	45	165	41	144	32	182	39
North Head, Wash.....	66	23	77	27	166	45	184	45	219	47	255	54
North Platte, Nebr.....	183	61	238	80	322	87	287	72	284	63	331	73
Oklahoma, Okla.....	194	62	205	67	299	80	292	74	229	53	330	76
Omaha, Nebr.....	131	44	194	65	299	81	256	64	244	54	317	70
Parkersburg, W. Va.....	47	15	91	30	182	49	149	37	185	42	200	45
Peoria, Ill.....	136	46	166	56	323	87	220	55	264	59	319	71
Philadelphia, Pa.....	112	37	176	59	247	66	238	60	197	44	231	52
Phoenix, Ariz.....	229	72	280	91	330	89	351	90	401	93	411	96
Pittsburgh, Pa.....	64	22	123	41	240	65	168	42	206	46	220	49
Pocatello, Idaho.....	106	36	106	36	274	74	299	74	356	78	417	91
Port Huron, Mich.....	62	21	144	49	224	61	171	42	235	52	253	55
Portland, Me.....	154	53	167	57	237	64	212	52	228	50	266	57
Portland, Oreg.....	42	15	59	20	197	53	224	55	292	63	266	56
Providence, R. I.....	122	41	155	52	251	68	240	60	221	49	244	54
Pueblo, Colo.....	228	75	255	84	346	93	330	83	325	74	372	84
Raleigh, N. C.....	156	50	187	61	264	71	257	65	338	78	263	60
Rapid City, S. Dak.....	190	66	212	72	294	79	289	72	273	60	320	69
Richmond, Va.....	152	50	196	65	273	74	251	63	302	68	234	53
Rochester, N. Y.....	62	21	122	41	260	70	218	54	255	56	321	70
Roswell, N. Mex.....	192	60	224	73	282	76	289	74	316	73	326	76
Sacramento, Cal.....	135	45	174	58	240	65	319	80	389	88	415	93
St. Louis, Mo.....	105	35	153	51	291	78	196	49	213	48	260	58
St. Paul, Minn.....	129	45	174	60	293	79	267	66	308	67	367	79
Salt Lake City, Utah.....	182	60	151	51	299	81	322	80	366	81	395	87
San Antonio, Tex.....	177	54	163	52	232	62	255	66	234	55	298	71
San Diego, Cal.....	220	69	230	75	212	57	282	72	276	64	268	62

SUNSHINE—Continued.

Stations.	July.		August.		September.		October.		November.		December.		Annual.	
	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.
Indianapolis, Ind.....	243	53	316	74	199	53	258	75	148	49	118	41	2,488	55
Jacksonville, Fla.....	287	67	239	58	278	75	255	72	194	61	221	70	2,964	66
Jupiter, Fla.....	336	79	288	71	288	78	205	58	258	80	237	73	2,896	65
Kalispell, Mont.....	374	77	257	58	197	52	165	49	48	17	39	15	2,299	47
Kansas City, Mo.....	367	81	284	67	209	56	273	79	190	63	189	64	2,946	66
Knoxville, Tenn.....	276	62	300	72	252	68	254	73	194	63	146	48	2,800	62
La Crosse, Wis.....	366	78	286	66	216	58	224	66	111	38	147	53	2,865	62
Lander, Wyo.....	323	69	322	75	277	74	249	73	161	55	187	67	3,282	73
La Salle, Ill.....	350	76	280	66	220	59	248	72	158	53	142	50	2,902	64
Lexington, Ky.....	233	52	271	64	218	58	241	69	161	53	112	38	2,485	55
Little Rock, Ark.....	253	57	219	53	311	84	268	77	229	74	164	54	2,750	62
Los Angeles, Cal.....	358	82	343	83	282	76	295	84	203	65	225	73	3,325	75
Louisville, Ky.....	256	57	327	78	237	64	254	73	185	61	140	47	2,810	62
Lynchburg, Va.....	324	72	246	59	245	66	235	68	150	49	151	50	2,730	60
Macon, Ga.....	214	49	240	58	240	65	262	74	209	67	180	58	2,728	61
Madison, Wis.....	326	70	204	47	203	54	209	61	89	31	120	42	2,534	55
Marquette, Mich.....	177	37	158	36	132	35	104	31	22	8	56	21	1,582	34
Memphis, Tenn.....	329	74	330	79	307	83	262	75	208	67	141	46	3,131	69
Meridian, Miss.....	247	57	325	79	303	82	231	65	175	55	150	48	2,892	64
Milwaukee, Wis.....	359	77	226	52	194	52	206	60	101	35	117	42	2,589	57
Mobile, Ala.....	200	46	254	62	244	66	222	63	232	73	176	56	2,657	60
Modena, Utah.....	299	66	303	72	304	81	252	72	167	55	110	37	3,149	69
Mount Tamalpais, Cal.....	412	92	415	98	346	93	250	72	132	43	130	44	3,258	70
Mount Weather, Va.....	332	73	261	62	248	66	262	76	144	48	170	58	2,787	62
New Haven, Conn.....	345	75	373	64	224	60	235	68	158	53	161	56	2,673	59
New Orleans, La.....	279	65	298	73	252	68	228	64	210	66	151	48	3,151	71
New York, N. Y.....	371	81	221	52	272	73	247	72	159	53	167	58	2,750	61
Norfolk, Va.....	288	64	219	52	252	68	243	70	200	65	187	62	2,777	62
Northfield, Vt.....	248	53	176	41	149	40	117	34	60	21	101	36	1,704	37
North Head, Wash.....	258	54	144	33	135	36	89	26	56	20	59	22	1,703	36
North Platte, Nebr.....	366	80	289	68	222	59	290	84	206	69	176	61	3,194	71
Oklahoma, Okla.....	338	77	312	75	280	75	268	77	261	84	217	71	3,226	72
Omaha, Nebr.....	304	66	257	60	216	58	243	71	156	53	133	46	2,750	61
Parkersburg, W. Va.....	211	47	242	57	170	46	157	45	38	13	42	14	1,714	37
Peoria, Ill.....	279	61	250	59	200	53	256	75	170	57	160	56	2,742	61
Philadelphia, Pa.....	321	71	246	58	250	67	229	66	147	49	152	52	2,545	57
Phoenix, Ariz.....	368	84	338	82	343	92	297	85	245	78	234	75	3,826	85
Pittsburgh, Pa.....	282	61	304	71	204	55	228	66	52	17	74	26	2,164	47
Pocatello, Idaho.....	391	84	401	93	306	82	270	79	111	38	115	41	3,152	67
Port Huron, Mich.....	291	63	192	45	224	60	184	54	36	12	92	33	2,108	46
Portland, Me.....	315	67	215	50	225	60	176	52	132	46	142	51	2,469	55
Portland, Oreg.....	360	76	234	53	148	39	92	27	33	12	51	19	1,998	41
Providence, R. I.....	296	64	249	58	186	50	184	54	97	33	154	54	2,400	53
Pueblo, Colo.....	356	79	265	63	306	82	298	86	218	72	258	87	3,557	80
Raleigh, N. C.....	266	60	202	48	229	62	240	69	217	70	190	63	2,809	63
Rapid City, S. Dak.....	322	69	263	61	203	54	224	66	90	31	120	43	2,800	62
Richmond, Va.....	354	79	206	49	228	61	243	70	164	54	165	56	2,767	62
Rochester, N. Y.....	259	77	308	71	240	64	203	59	38	13	84	30	2,470	52
Roswell, N. Mex.....	322	74	250	61	290	78	293	83	223	71	182	59	3,189	72
Sacramento, Cal.....	431	95	422	100	343	92	286	83	150	50	102	35	3,404	74
St. Louis, Mo.....	263	58	280	66	225	60	247	71	166	65	131	45	2,530	56
St. Paul, Minn.....	411	87	326	75	254	68	224	66	127	44	159	58	3,040	66
Salt Lake City, Utah.....	335	73	312	73	269	72	234	68	168	56	91	32	3,124	68
San Antonio, Tex.....	327	77	292	72	230	62	232	65	139	43	108	34	2,686	59
San Diego, Cal.....	294	67	320	77	268	72	268	76	201	64	236	76	3,074	69

SUNSHINE—Continued.

Stations.	January.		February.		March.		April.		May.		June.	
	Hours.	Per-centage of pos-sible.	Hours.	Per-centage of pos-sible.	Hours.	Per-centage of pos-sible.	Hours.	Per-centage of pos-sible.	Hours.	Per-centage of pos-sible.	Hours.	Per-centage of pos-sible.
San Francisco, Cal.....	158	52	185	61	249	67	319	81	310	70	367	83
San Jose, Cal.....	147	48	178	59	198	53	286	72	340	77	393	89
San Juan, P. R.....	186	54	173	53	213	57	214	57	238	59	209	53
San Luis Obispo, Cal.....	142	45	151	49	174	47	270	69	290	67	315	72
Santa Fe, N. Mex.....	239	77	237	78	306	82	316	80	345	79	331	76
Sault Ste. Marie, Mich.....	71	25	152	52	199	54	154	38	250	54	330	70
Savannah, Ga.....	219	68	164	53	316	85	296	76	308	72	252	59
Seattle, Wash.....	78	28	73	26	146	39	162	39	280	59	206	43
Sheridan, Wyo.....	202	71	215	74	296	80	313	77	319	69	345	74
Sioux City, Iowa.....	127	43	175	59	241	65	245	61	233	52	310	68
Southeast Farallon, Cal.....	154	51	180	59	196	53	240	61	266	60	319	72
Spokane, Wash.....	58	21	95	33	217	59	260	63	342	73	360	75
Springfield, Ill.....	174	58	187	62	313	84	226	57	282	63	338	75
Tacoma, Wash.....	57	20	39	13	162	44	205	50	280	60	275	58
Tampa, Fla.....	197	60	193	62	265	71	296	77	309	74	251	60
Toledo, Ohio.....	70	24	126	43	270	73	214	53	284	63	308	68
Tonopah, Nev.....	197	64	192	64	228	61	313	79	388	88	427	96
Topeka, Kans.....	170	56	193	64	331	89	258	65	244	55	335	75
Vicksburg, Miss.....	170	53	120	39	286	77	236	61	266	62	274	64
Walla Walla, Wash.....	62	22	103	35	226	61	263	65	352	76	368	78
Washington, D. C.....	130	43	193	64	263	71	250	63	283	64	252	56
Williston, N. Dak.....	102	37	149	52	245	66	288	70	253	54	328	68
Wilmington, N. C.....	219	69	179	58	267	72	290	74	300	69	292	68
Winnemucca, Nev.....	192	64	182	61	304	82	332	83	401	89	438	97
Wytheville, Va.....	108	35	159	52	256	69	180	46	248	57	212	48
Yankton, S. Dak.....	138	47	187	63	287	78	277	69	290	64	354	77
Yellowstone Park, Wyo.....	123	43	172	59	259	70	310	77	319	69	357	77
Yuma, Ariz.....	238	75	284	92	337	91	362	93	412	96	424	99

SUNSHINE—Continued.

Stations.	July.		August.		September.		October.		November.		December.		Annual.	
	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.	Hours.	Per-centage of possible.
San Francisco, Cal.....	348	77	309	73	251	67	248	71	127	42	149	50	3, 019	66
San Jose, Cal.....	378	85	345	82	290	78	254	73	204	67	157	52	3, 168	70
San Juan, P. R.....	232	57	212	54	202	55	243	67	242	72	177	52	2, 541	58
San Luis Obispo, Cal.....	310	70	304	73	252	68	243	69	165	53	143	47	2, 758	61
Santa Fe, N. Mex.....	309	70	256	61	322	87	268	77	235	76	231	76	3, 395	77
Sault Ste. Marie, Mich.....	324	68	194	44	182	48	119	35	15	5	59	22	2, 050	43
Savannah, Ga.....	257	59	281	68	258	69	262	74	241	76	230	73	3, 083	69
Seattle, Wash.....	314	65	221	50	158	42	57	17	40	14	45	17	1, 779	37
Sheridan, Wyo.....	337	71	268	62	204	54	217	64	112	39	157	57	2, 985	66
Sioux City, Iowa.....	326	71	318	74	223	60	264	77	167	56	134	47	2, 763	61
Southeast Farallon, Cal.....	168	37	136	32	136	36	186	54	143	47	169	57	2, 294	52
Spokane, Wash.....	426	88	326	74	242	64	158	47	32	12	32	12	2, 549	52
Springfield, Ill.....	312	68	318	75	238	64	276	80	182	61	175	60	3, 021	67
Tacoma, Wash.....	365	76	309	70	223	59	80	24	52	19	55	21	2, 101	43
Tampa, Fla.....	266	63	205	50	264	72	178	50	214	66	235	73	2, 874	65
Toledo, Ohio.....	365	79	262	61	231	62	213	62	76	26	102	36	2, 520	54
Tonopah, Nev.....	372	83	377	89	325	87	257	74	182	60	166	56	3, 424	75
Topeka, Kans.....	374	83	293	69	247	66	263	76	252	84	201	68	3, 162	71
Vicksburg, Miss.....	263	61	270	66	304	82	264	75	181	57	112	36	2, 746	61
Walla Walla, Wash.....	421	89	381	87	262	70	216	64	61	21	32	12	2, 747	57
Washington, D. C.....	313	69	221	52	231	62	232	67	152	51	140	48	2, 659	59
Williston, N. Dak.....	307	64	204	46	198	53	119	35	.....	.....	.....	.....	.....	.....
Wilmington, N. C.....	278	63	197	48	238	64	272	78	225	72	218	71	2, 977	67
Winnemucca, Nev.....	411	90	427	100	327	88	274	80	167	56	163	57	3, 619	79
Wytheville, Va.....	262	59	235	56	193	52	213	61	153	50	127	42	2, 347	52
Yankton, S. Dak.....	368	79	298	69	227	61	276	81	172	59	135	48	3, 009	66
Yellowstone Park, Wyo.....	374	79	370	85	241	64	246	73	105	37	135	49	3, 012	65
Yuma, Ariz.....	400	91	388	94	349	94	320	91	273	87	275	89	4, 061	91

EXCESSIVE RAINFALL, 1910.

The table following contains the record of excessive rainfall for the calendar year 1910. Similar records for the years 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, and 1909 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; 1908-9, pages 59-70; and 1909-10, pages 64-76, 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 gauges.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1910, 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 GAUGES.

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.	55 min.	60 min.	65 min.	70 min.	75 min.	80 min.	85 min.	90 min.	95 min.	100 min.	120 min.		
NEW ENGLAND STATES.																													
Eastport, Me.: Sept. 5.....	6.30 a. m.	8.15 a. m.	0.51	7.02 a. m.	7.20 a. m.	0.02	0.13	0.19	0.36	0.42																			
Portland, Me.: Aug. 2.....	11.58 a. m.	12.18 p. m.	.44	12.06 p. m.	12.18 p. m.	.01	.13	.39	.43																				
Concord, N. H.: June 18.....	11.00 a. m.	12.48 p. m.	.80	11.00 a. m.	11.16 a. m.	.00	.09	.44	.66	.70																			
Burlington, Vt.: June 27.....	12.20 p. m.	2.20 p. m.	.83	12.27 p. m.	12.44 p. m.	.01	.29	.55	.69	.72																			
Northfield, Vt.: May 25.....	3.35 p. m.	D. N. a. m.	1.65	5.37 p. m.	6.24 p. m.	.36	.11	.22	.32	.39	0.42	0.62	0.64	0.72	0.77	0.82													
June 15.....	5.50 p. m.	6.53 p. m.	.50	5.58 p. m.	6.13 p. m.	.01	.22	.40	.47																				
Aug. 4.....	8.15 a. m.	10.25 a. m.	.58	9.00 a. m.	9.15 a. m.	.04	.12	.35	.45																				
Boston, Mass.: June 12.....	12.30 a. m.	7.45 a. m.	.89	2.23 a. m.	2.47 a. m.	.15	.09	.32	.40	.47	.52																		
July 26.....	4.45 p. m.	5.40 p. m.	.33	5.06 p. m.	5.16 p. m.	T.	.24	.30																					
Nantucket, Mass.: July 30.....	11.20 a. m.	3.50 p. m.	2.40	12.21 p. m.	1.53 p. m.	.10	.29	.37	.37	.41	.63	.78	1.00	1.24	1.42	1.46	1.54	1.70	1.98										
Oct. 20.....	8.20 a. m.	5.05 p. m.	3.96	11.40 a. m.	12.30 p. m.	.06	.12	.16	.21	.34	.43	.54	.58	.67	.70														
				11.40 a. m.	12.30 p. m.	.74	.77	.80	.83	.85	.90	1.15	1.41	1.71	1.89														
				12.30 p. m.	1.05 p. m.	2.02	2.24	2.31	2.40	2.73	3.00	3.16																	
Block Island, R. I.: Aug. 15-16.....	2.45 p. m.	12.30 a. m.	1.28	10.23 p. m.	11.22 p. m.	.29	.07	.14	.21	.25	.32	.43	.46	.50	.52	.59	.96												
Nov. 3-4.....	8.15 p. m.	7.30 p. m.	3.77	2.25 p. m.	3.45 p. m.	2.35	.07	.12	.20	.33	.40	.45	.57	.64	.65	.83	1.17												
Providence, R. I.: June 18.....	3.42 p. m.	5.46 p. m.	1.07	3.42 p. m.	4.13 p. m.	.00	.16	.43	.49	.61	.74	.96	.99																
July 25.....	7.18 p. m.	8.22 p. m.	1.11	7.35 p. m.	8.10 p. m.	.05	.18	.52	.80	.84	.85	.94	1.02																
Hartford, Conn.: Aug. 4.....	7.36 p. m.	8.20 p. m.	.68	7.42 p. m.	8.00 p. m.	.04	.18	.42	.54	.60																			
Sept. 4-5.....	10.30 p. m.	D. N. a. m.	1.00	2.52 a. m.	3.22 a. m.	.22	.18	.40	.54	.67	.75																		
New Haven, Conn.: May 20-21.....	11.50 p. m.	6.30 a. m.	1.14	3.23 a. m.	4.06 a. m.	.29	.05	.09	.15	.24	.34	.44	.56	.63	.68														
June 11-12.....	9.23 p. m.	D. N. a. m.	.56	4.13 a. m.	4.21 a. m.	.18	.29	.38																					

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1910, 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.	55 min.	60 min.	65 min.	70 min.	75 min.	80 min.	85 min.	90 min.	95 min.	100 min.	105 min.	110 min.	115 min.	120 min.											
SOUTH ATLANTIC STATES—contd.																																									
Charlotte, N. C.:																																									
June 13-14.....	D. N. p. m.	D. N. a. m.	1.82	4.06 a. m.	4.50 a. m.	0.73	0.05	0.22	0.34	0.43	0.58	0.70	0.81	0.96	1.03																										
June 19.....	7.34 p. m.	D. N. p. m.	.92	7.37 p. m.	8.07 p. m.	.01	.07	.22	.37	.57	.70	.79																													
Aug. 1.....	11.46 a. m.	12.32 p. m.	1.01	11.50 a. m.	12.06 p. m.	.01	.30	.74	.99	.98																															
Aug. 7.....	8.39 p. m.	D. N. p. m.	.90	8.39 p. m.	8.56 p. m.	.00	.18	.45	.74	.81																															
Aug. 30.....	3.46 p. m.	6.20 p. m.	1.23	5.39 p. m.	6.06 p. m.	.23	.12	.28	.57	.82	.90	.98																													
Hatteras, N. C.:																																									
Jan. 21.....	8.50 a. m.	8.30 p. m.	1.18	11.06 a. m.	11.15 a. m.	.22	.16	.36																																	
May 30.....	3.45 p. m.	6.40 p. m.	.65	6.06 p. m.	6.22 p. m.	.16	.19	.34	.44	.49																															
Aug. 16.....	2.10 a. m.	4.40 a. m.	.79	2.13 a. m.	2.43 a. m.	.01	.11	.28	.42	.46	.53	.64																													
Aug. 27-28.....	10.50 a. m.	11.55 a. m.	5.21	10.52 a. m.	11.17 a. m.	.01	.12	.25	.37	.55	.64																														
Sept. 14.....	3.10 a. m.	4.55 a. m.	1.70	3.35 a. m.	4.40 a. m.	.11	.07	.11	.19	.29	.37	.61	.86	.90	.93	.99	1.48	1.59																							
Raleigh, N. C.:																																									
Apr. 17.....	D. N. a. m.	9.15 a. m.	1.46	6.34 a. m.	7.10 a. m.	.18	.16	.19	.39	.41	.46	.51	.70	.75																											
May 24.....	1.48 p. m.	2.55 p. m.	.75	2.31 p. m.	2.52 p. m.	.04	.43	.50	.63	.70	.71																														
June 9.....	5.05 p. m.	7.10 p. m.	1.03	5.10 p. m.	5.29 p. m.	.02	.18	.53	.83	.88																															
June 14.....	9.40 a. m.	1.35 p. m.	1.70	9.47 a. m.	10.23 a. m.	.01	.08	.12	.15	.20	.33	.51	.60	.64																											
July 7.....	6.28 p. m.	10.30 p. m.	1.20	6.33 p. m.	7.17 p. m.	.01	.19	.45	.69	.71	.71	.77	.91	1.01	1.07																										
July 13.....	3.50 p. m.	5.25 p. m.	2.19	4.11 p. m.	5.12 p. m.	.11	.21	.57	1.13	1.40	1.49	1.52	1.53	1.54	1.55	1.81	2.05																								
Aug. 16.....	3.17 p. m.	6.10 p. m.	1.00	3.52 p. m.	4.16 p. m.	.05	.09	.36	.50	.71	.83																														
Aug. 15.....	1.07 p. m.	4.25 p. m.	1.44	1.55 p. m.	2.50 p. m.	.10	.15	.37	.47	.54	.59	.68	.74	.82	.99	1.08	1.18																								
Aug. 30.....	7.05 a. m.	6.05 p. m.	1.83	3.13 p. m.	3.55 p. m.	.43	.09	.14	.17	.32	.59	.91	1.05	1.13	1.18																										
Oct. 7.....	12.47 p. m.	D. N. p. m.	1.42	12.49 p. m.	1.36 p. m.	.01	.19	.27	.31	.40	.47	.48	.48	.53	.64	.70																									
Wilmington, N. C.:																																									
Feb. 11.....	6.50 a. m.	6.30 p. m.	2.58	3.45 p. m.	5.44 p. m.	.86	.10	.27	.34	.45	.53	.57	.62	.68	.77	.83	.89	.99	1.34	1.54																					
May 8-9.....	10.02 p. m.	D. N. a. m.	2.38	10.04 p. m.	11.48 p. m.	.01	.16	.31	.48	.55	.62	.67	.81	1.02	1.11	1.26	1.31	1.63	1.78	1.90																					
June 12.....	11.42 a. m.	2.55 p. m.	1.26	12.38 p. m.	1.11 p. m.	.17	.20	.37	.48	.46	.53	.61	.71																												
June 15.....	D. N. a. m.	8.50 a. m.	1.41	2.44 a. m.	3.02 a. m.	.01	.09	.33	.48	.51																															
July 15.....	5.00 p. m.	5.45 p. m.	1.08	5.07 p. m.	5.46 p. m.	.15	.36	.45	.53	.69	.84	.96	1.03																												
July 18.....	1.20 p. m.	D. N. p. m.	1.81	1.37 p. m.	1.52 p. m.	.04	.23	.55	.68																																
Aug. 24.....	10.22 a. m.	12.25 p. m.	.74	10.29 a. m.	11.13 a. m.	.02	.20	.30	.31	.40	.50	.55	.60	.65	.70																										
Aug. 30.....	8.50 a. m.	6.45 p. m.	2.90	10.42 a. m.	11.49 a. m.	.45	.16	.29	.33	.42	.49	.56	.71	.88	.99	1.14	1.46	1.73																							
Charleston, S. C.:																																									
June 3.....	D. N. a. m.	D. N. a. m.	.60	12.40 a. m.	1.03 a. m.	.01	.22	.29	.36	.45	.49																														
July 9.....	12 noon	1.20 p. m.	.74	12.07 p. m.	12.24 p. m.	.01	.08	.45	.63	.68																															
July 29.....	3.10 p. m.	4.15 p. m.	.90	3.46 p. m.	4.06 p. m.	.15	.19	.32	.50	.73																															
Aug. 29-30.....	D. N. a. m.	10.20 a. m.	5.85	1.45 a. m. ¹	3.41 a. m. ¹	2.30	.14	.42	.46	.47	.48	.52	.61	.68	.77	.90	.96	1.22	1.69	2.09																					
Sept. 27.....	6.25 a. m.	8.50 a. m.	1.15	6.34 a. m.	7.04 a. m.	.02	.05	.26	.44	.61	.82	.92																													
Oct. 8.....	7.35 p. m.	6.35 a. m.	1.68	4.03 a. m.	4.10 a. m.	1.14	.33	.39																																	
Oct. 19.....	7.15 a. m.	10.00 a. m.	1.62	8.50 a. m.	9.36 a. m.	.44	.08	.18	.28	.31	.46	.55	.78	1.00	1.13	1.16																									
Columbia, S. C.:																																									
Feb. 23-24.....	8.38 p. m.	6.00 p. m.	4.23	5.35 a. m.	6.37 a. m.	1.87	.08	.18	.26	.38	.49	.55	.69	.75	.78	.93	1.21	1.36																							
June 15.....	D. N. a. m.	8.05 a. m.	1.02	4.42 a. m.	5.05 a. m.	.01	.17	.38	.43	.48	.53																														
July 13.....	11.25 a. m.	1.30 p. m.	1.69	11.32 a. m.	12.26 p. m.	.01	.14	.30	.53	.71	.86	.97	1.09	1.30	1.42	1.54	1.66																								
July 19-19.....	9.10 p. m.	11.20 a. m.	1.28	9.14 p. m.	9.38 p. m.	.01	.11	.52	.80	.92	.97																														
Aug. 4.....	7.55 p. m.	9.20 p. m.	.65	8.21 p. m.	8.33 p. m.	.02	.38	.52	.58																																
Aug. 13.....	6.00 p. m.	9.40 p. m.	1.29	6.11 p. m.	6.35 p. m.	.02	.30	.40	.48	.64	.75																														
Aug. 17.....	2.44 p. m.	3.38 p. m.	1.32																																						

EXCESSIVE RAINFALL, 1910.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1910, 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—contd.																				
Jacksonville, Fla.:																				
May 31.....	10.45 a. m.	11.40 a. m.	0.59	10.54 a. m.	11.04 a. m.	0.01	0.26	0.58												
June 11.....	5.55 p. m.	D. N. p. m.	1.09	6.18 p. m.	6.33 p. m.	.03	.04	.58	0.87											
June 13.....	2.05 p. m.	5.15 p. m.	1.01	2.08 p. m.	2.28 p. m.	.02	.34	.59	0.77											
June 21.....	7.35 p. m.	8.30 p. m.	.07	7.43 p. m.	7.59 p. m.	.01	.24	.49	.65											
July 7.....	4.30 p. m.	5.15 p. m.	.76	4.36 p. m.	4.25 p. m.	.01	.21	.55	.71	.74										
July 31.....	2.25 p. m.	3.20 p. m.	.64	2.30 p. m.	2.53 p. m.	.05	.10	.31	.50	.58										
Aug. 20.....	5.45 p. m.	D. N. p. m.	1.38	6.45 p. m.	7.21 p. m.	.21	.05	.10	.18	.33	0.54	0.68	0.77	0.82						
Aug. 28.....	12 noon	2.15 p. m.	.80	12.07 p. m.	1.23 p. m.	.01	.07	.22	.42	.55	.66	.71								
Aug. 30.....	2.10 p. m.	3.10 p. m.	.64	2.30 p. m.	2.34 p. m.	.01	.12	.22	.29	.42	.51	.55								
Oct. 18-19.....	8.00 a. m.	4.30 a. m.	5.04	3.42 p. m.	4.53 p. m.	2.10	.10	.22	.28	.29	.31	.35	.42	.51	.75	.85	1.17	1.37		
FLORIDA PENINSULA.																				
Jupiter, Fla.:																				
Feb. 8.....	6.15 a. m.	10.35 a. m.	.76	6.15 a. m.	6.34 a. m.	.00	.12	.29	.50	.72										
Mar. 4-5.....	6.08 p. m.	7.15 a. m.	4.53	3.56 a. m.	4.15 a. m.	3.31	.34	.73	.84	.96										
May 11.....	3.30 p. m.	6.20 p. m.	1.52	4.42 p. m.	5.19 p. m.	.72	.06	.10	.16	.25	.39	.50	.60	.67						
May 25.....	12.53 p. m.	4.40 p. m.	1.12	1.08 p. m.	1.36 p. m.	.02	.11	.26	.45	.64	.90	1.02								
June 30.....	1.58 p. m.	8.00 p. m.	2.09	2.03 p. m.	2.48 p. m.	.02	.21	.41	.73	1.04	1.25	1.36	1.47	1.57	1.62					
July 20.....	12.40 p. m.	5.30 p. m.	1.38	12.44 p. m.	1.29 p. m.	.01	.19	.44	.65	.69	.73	.82	.96	1.15	1.26					
July 28.....	12.02 p. m.	12.50 p. m.	1.19	12.07 p. m.	12.32 p. m.	.01	.29	.72	.94	1.05	1.15									
Aug. 15.....	10.22 a. m.	3.07 p. m.	2.09	10.51 a. m.	11.51 a. m.	.05	.08	.28	.36	.43	.66	.85	.88	1.06	1.24	1.33	1.48			
Aug. 24.....	2.35 a. m.	5.40 a. m.	.99	2.41 a. m.	3.01 a. m.	.02	.20	.48	.64	.74										
Aug. 27.....	11.22 a. m.	8.05 p. m.	4.91	11.55 a. m.	12.45 p. m.	.22	.19	.49	.63	.74	.80	.81	.82	.82	.83	.92				
Sept. 17.....	12.33 p. m.	1.30 p. m.	1.57	12.41 p. m.	1.16 p. m.	.01	.24	.67	.92	1.08	1.30	1.45	1.51							
Sept. 29-30.....	11.45 p. m.	2.30 a. m.	1.16	11.52 p. m.	12.20 a. m.	.03	.10	.35	.52	.69	.82	.88								
Oct. 14-15.....	6.25 a. m.	3.30 a. m.	14.27	11.55 a. m. ¹	3.05 p. m. ¹	3.38	.05	.15	.18	.26	.33	.38	.44	.47	.50	.57	.80	.94		
Key West, Fla.:				4.49 a. m. ²	5.39 a. m. ²	6.16	.32	.43	.49	.53	.56	.57	.59	.61	.62	.66				
Aug. 3-4.....	11.10 p. m.	12.25 a. m.	.68	11.40 p. m.	12.02 a. m.	.03	.16	.35	.52	.62	.64									
Aug. 20.....	10.15 p. m.	11.00 p. m.	.66	10.23 p. m.	10.46 p. m.	.01	.15	.27	.43	.59	.63									
Sept. 22.....	12.07 p. m.	1.55 p. m.	1.16	12.12 p. m.	12.27 p. m.	.01	.32	.49	.58											
Sept. 28.....	12.05 p. m.	1.28 p. m.	.74	12.59 p. m.	1.27 p. m.	.02	.18	.30	.32	.36	.45	.50								
Oct. 16-17.....	9.00 p. m.	9.20 p. m.	4.14	(*)	(*)	(*)	(1)													
Tampa, Fla.:																				
May 25.....	D. N. a. m.	7.15 a. m.	.99	6.10 a. m.	6.44 a. m.	.28	.08	.24	.29	.35	.45	.58	.67							
June 12.....	2.09 p. m.	8.20 p. m.	2.07	3.16 p. m.	3.50 p. m.	.37	.26	.31	.43	.49	.53	.62								
June 28-29.....	4.55 p. m.	10.00 a. m.	4.40	3.43 a. m.	4.40 a. m.	1.16	.08	.20	.31	.37	.44	.46	.57	.79	1.14	1.50	1.87			
July 6.....	5.20 p. m.	7.50 p. m.	1.76	5.27 p. m.	6.00 p. m.	.03	.24	.67	1.08	1.35	1.50	1.61	1.70							
July 21.....	4.25 p. m.	7.03 p. m.	1.56	4.23 p. m.	4.40 p. m.	.01	.22	.39	.44											
Aug. 1.....	10.04 a. m.	6.05 p. m.	2.06	5.38 p. m.	5.49 p. m.	.63	.37	.85	.92											
EAST GULF STATES.																				
Atlanta, Ga.:																				
May 7.....	2.35 p. m.	4.45 p. m.	.69	3.52 p. m.	4.13 p. m.	.02	.07	.19	.47	.62	.64									
May 24.....	D. N. a. m.	8.45 a. m.	1.73	5.40 a. m.	5.52 a. m.	.22	.36	.53	.60											
June 20.....	1.19 p. m.	4.15 p. m.	.74	1.55 p. m.	2.18 p. m.	.08	.15	.38	.51	.60	.63									
July 2.....	2.00 p. m.	3.25 p. m.	.79	2.04 p. m.	2.21 p. m.	.01	.32	.47	.69	.71										
Macon, Ga.:																				
Feb. 17.....	1.30 p. m.	6.30 p. m.	1.00	3.18 p. m.	3.34 p. m.	.09	.06	.27	.49	.54										
June 11.....	8.04 p. m.	4.25 p. m.	1.14	3.17 p. m.	3.50 p. m.	.05	.34	.69	.75	.84	.96	1.01	1.06							
June 14.....	6.14 p. m.	7.15 p. m.	1.02	6.16 p. m.	6.45 p. m.	.01	.20	.43	.62	.70	.84	.91								
July 8.....	2.27 p. m.	3.05 p. m.	.79	2.27 p. m.	2.41 p. m.	.00	.22	.63	.76											
July 18.....	D. N. a. m.	1.03	1.03	12.10 a. m.	12.32 a. m.	.02	.11	.30	.41	.52	.55									
Oct. 7.....	2.33 p. m.	9.15 p. m.	1.95	5.48 p. m.	6.23 p. m.	.70	.20	.31	.40	.47	.55	.70	.80							
Thomasville, Ga.:																				
Jan. 20-21.....	5.40 p. m.	D. N. a. m.	1.40	9.20 p. m.	9.50 p. m.	.72	.07	.12	.23	.27	.45	.58								
Jan. 23.....	7.01 a. m.	9.45 a. m.	1.01	7.55 a. m.	8.35 a. m.	.26	.09	.20	.31	.41	.46	.50	.67							
Feb. 17.....	5.45 p. m.	9.30 p. m.	1.15	6.02 p. m.	6.34 p. m.	.04	.22	.45	.58	.73	.75									
June 12-13.....	7.04 a. m.	12.05 p. m.	2.80	5.10 p. m.	5.32 p. m.	1.01	.10	.29	.54	.61	.64									
June 21.....	4.42 p. m.	7.30 p. m.	1.22	4.59 p. m.	6.08 p. m.	.03	.08	.18	.29	.48	.59	.66	.70	.74	.76	.78	.83	1.15		
June 25.....	3.05 p. m.	6.15 p. m.	1.15	4.21 p. m.	5.03 p. m.	.19	.14	.32	.35	.35	.38	.54	.70	.79	.83					
June 30.....	7.30 p. m.	16.30 p. m.	2.00	8.34 p. m.	9.26 p. m.	.04	.05	.23	.52	.73	.82	.91	1.12	1.34	1.67	1.76	1.80			
July 30.....	2.15 p. m.	4.45 p. m.	1.04	2.25 p. m.	2.45 p. m.	.01	.33	.61	.76	.91										
July 31.....	3.45 p. m.	8.35 p. m.	1.01	4.46 p. m.	5.05 p. m.	.08	.17	.40	.57	.65										
Aug. 20.....	1.45 p. m.	5.50 p. m.	1.25	1.49 p. m.	2.16 p. m.	.01	.26	.61	.81	.99	1.06	1.10								
Aug. 23.....	3.42 p. m.	8.02 p. m.	1.08	4.36 p. m.	5.12 p. m.	.04	.13	.26	.31	.39	.51	.58	.63	.66						
Oct. 4.....	5.35 p. m.	8.20 p. m.	2.38	5.41 p. m.	6.57 p. m.	.01	.20	.31	.33	.38	.75	1.13	1.45	1.67	1.89	2.14	2.35			
Nov. 18-19.....	7.52 a. m.	12.20 p. m.	4.23	8.28 p. m.	10.06 p. m.	.69	.10	.20	.29	.36	.38	.43	.46	.51	.62	.66	.78	1.19	1.59	

¹ Oct. 15. ² Oct. 16. ³ Record incomplete until 11 a. m., 16th. ⁴ Record incomplete.

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1910, ETC.—Continued.

Station and date.	Total duration.		Total amount of precipitat ion (inches).	Excessive rate.		Amount of excess precip. 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.	55 min.	60 min.	65 min.	70 min.	75 min.	80 min.	85 min.	90 min.	95 min.	
EAST GULF STATES—continued.																										
Pensacola, Fla.:																										
Feb. 21	10.00 a. m.	1.00 p. m.	1.28	10.03 a. m.	10.22 a. m.	0.01	0.13	0.37	0.50	0.62	0.74	0.80	0.94	1.02												
May 23	4.30 p. m.	8.55 p. m.	1.35	5.36 p. m.	6.13 p. m.	0.17	0.06	0.18	0.30	0.54	0.63	0.80	0.94	1.02												
June 23	11.05 a. m.	12.35 p. m.	1.00	11.07 a. m.	11.47 a. m.	0.02	0.18	0.30	0.31	0.56	0.74	0.85	0.95													
June 29-30	10.30 p. m.	8.00 a. m.	1.51	10.37 p. m.	11.38 p. m.	0.05	0.13	0.35	0.56	0.63	0.72	0.79	0.80	0.90	0.96											
July 23	10.40 a. m.	11.25 a. m.	1.04	10.50 a. m.	11.13 a. m.	0.04	0.11	0.54	0.75	0.92	0.98															
Aug. 12	10.00 a. m.	2.50 p. m.	2.23	10.05 a. m.	11.43 a. m.	0.01	0.13	0.19	0.32	0.45	0.46	0.49	0.63	0.73	0.78	1.15	1.53	2.05								
Sept. 1	12.05 a. m.	5.45 a. m.	0.92	12.57 a. m.	1.35 a. m.	0.02	0.27	0.36	0.46	0.54	0.61	0.77	0.81													
Oct. 3	8.50 a. m.	9.55 a. m.	1.22	9.15 a. m.	9.50 a. m.	0.01	0.13	0.14	0.28	0.49	0.75	1.04	1.20													
Nov. 5	3.10 p. m.	9.45 p. m.	1.11	7.08 p. m.	7.50 p. m.	0.17	0.06	0.10	0.24	0.45	0.70	0.74	0.77	0.87	0.91											
Anniston, Ala.:																										
Feb. 17	9.10 a. m.	4.00 p. m.	2.26	9.51 a. m.	10.26 a. m.	0.01	0.13	0.51	0.71	0.83	0.93	1.08	1.21													
May 20	1.34 p. m.	7.20 p. m.	1.19	2.04 p. m.	2.54 p. m.	0.13	0.08	0.14	0.17	0.21	0.27	0.38	0.43	0.51	0.69	0.79										
June 23	6.50 p. m.	9.30 p. m.	0.90	6.54 p. m.	7.23 p. m.	0.01	0.14	0.28	0.36	0.46	0.59	0.71														
June 30	D. N. a. m.	2.00 p. m.	1.74	2.19 a. m.	2.59 a. m.	0.01	0.10	0.23	0.31	0.51	0.71	0.85	0.91	0.97												
July 17	4.05 p. m.	8.15 p. m.	1.74	4.09 p. m.	4.36 p. m.	0.02	0.13	0.23	0.33	0.61	0.67	0.71														
Sept. 2	1.00 p. m.	3.50 p. m.	1.14	1.37 p. m.	2.12 p. m.	0.01	0.17	0.47	0.69	0.83	0.89	0.96	1.01													
Sept. 29	3.08 a. m.	4.10 a. m.	0.81	3.36 a. m.	3.56 a. m.	0.17	0.10	0.19	0.42	0.63																
Oct. 6	2.20 p. m.	D. N. p. m.	1.41	3.05 p. m.	4.10 p. m.	0.02	0.13	0.29	0.34	0.41	0.54	0.58	0.70	0.74	0.76	0.78	0.92	1.10								
Birmingham, Ala.:																										
Apr. 12	9.57 a. m.	12.05 p. m.	0.71	9.57 a. m.	10.23 a. m.	0.09	0.09	0.16	0.26	0.50	0.62	0.65														
May 19	11.41 a. m.	2.25 p. m.	0.86	1.07 p. m.	1.42 p. m.	0.01	0.25	0.43	0.56	0.62	0.64	0.71														
June 21	5.50 p. m.	7.08 p. m.	0.96	5.57 p. m.	6.32 p. m.	0.01	0.12	0.30	0.40	0.52	0.60	0.76	0.86													
June 28	3.15 p. m.	4.45 p. m.	1.21	3.21 p. m.	4.15 p. m.	0.04	0.06	0.18	0.32	0.48	0.66	0.80	0.85	0.91	1.04	1.12	1.16									
July 1	3.40 p. m.	8.40 p. m.	1.92	4.56 p. m.	5.16 p. m.	0.06	0.13	0.39	0.68	0.77																
July 2	D. N. a. m.	9.45 a. m.	1.59	7.36 a. m.	8.06 a. m.	0.06	0.16	0.28	0.41	0.58	0.66	0.81														
July 3	2.09 p. m.	5.00 p. m.	1.78	2.11 p. m.	2.47 p. m.	0.01	0.13	0.43	0.65	1.23	1.35	1.48	1.60	1.63												
July 24	9.22 a. m.	12.15 p. m.	2.53	9.48 a. m.	10.56 a. m.	0.05	0.29	0.57	0.83	1.17	1.60	1.87	1.97	1.99	2.01	2.08	2.23	2.37								
Sept. 3	7.08 p. m.	9.10 p. m.	2.03	7.14 p. m.	8.23 p. m.	0.01	0.17	0.24	0.48	0.80	0.90	0.91	0.91	0.91	0.95	1.13	1.67	2.01								
Mobile, Ala.:																										
Feb. 17	7.15 a. m.	12.50 p. m.	0.97	11.25 a. m.	11.55 a. m.	0.21	0.08	0.14	0.26	0.46	0.50	0.64														
Apr. 16	7.00 a. m.	12.50 p. m.	1.21	11.03 a. m.	11.35 a. m.	0.11	0.21	0.33	0.59	0.79	0.88	1.03	1.06													
June 10	D. N. a. m.	7.45 a. m.	1.26	2.04 a. m.	2.53 a. m.	0.04	0.21	0.51	0.66	0.83	0.85	0.85	0.94	1.09												
July 3	12.10 p. m.	4.00 p. m.	1.57	1.52 p. m.	2.13 p. m.	0.07	0.06	0.41	0.91	1.49	1.46															
July 7	7.45 a. m.	10.00 a. m.	1.77	7.53 a. m.	8.52 a. m.	0.02	0.16	0.31	0.55	0.81	0.95	0.96	0.97	1.02	1.11	1.43	1.68									
July 7	D. N. a. m.	8.00 a. m.	4.74	3.08 a. m.	5.07 a. m.	0.21	0.15	0.28	0.43	0.56	0.86	0.95	1.20	1.39	1.58	1.70	2.23	2.34	2.72	3.35						
Aug. 12	11.48 a. m.	12.50 p. m.	1.69	11.52 a. m.	12.30 p. m.	0.01	0.10	0.44	0.57	0.82	0.96	1.20	1.54	1.68												
Oct. 3	10.54 a. m.	12.50 p. m.	1.45	11.04 a. m.	12.07 p. m.	0.02	0.30	0.53	0.66	0.67	0.72	0.77	0.90	1.04	1.16	1.32	1.40									
Oct. 6	D. N. a. m.	6.30 a. m.	1.23	3.16 a. m.	4.17 a. m.	0.02	0.29	0.42	0.45	0.45	0.45	0.45	0.52	0.71	0.80	0.99	1.00									
Oct. 6-7	6.45 a. m.	2.50 p. m.	3.29	8.36 a. m.	9.17 a. m.	0.03	0.30	0.50	0.60	0.62	0.63	0.71	0.82	0.91	0.93											
Dec. 23	D. N. a. m.	11.50 a. m.	1.96	4.25 a. m.	4.45 a. m.	0.44	0.12	0.41	0.74	0.89																
Montgomery, Ala.:																										
Feb. 17	9.50 a. m.	3.30 p. m.	1.42	11.16 a. m.	12.15 p. m.	0.09	0.05	0.11	0.19	0.25	0.38	0.58	0.60	0.65	0.69	0.71	0.95									
June 25	2.06 p. m.	5.30 p. m.	0.70	2.22 p. m.	2.35 p. m.	0.02	0.15	0.51	0.67																	
June 28	8.17 p. m.	D. N. p. m.	0.93	8.27 p. m.	8.40 p. m.	0.02	0.23	0.56	0.76	0.84																
July 18	1.22 p. m.	4.33 p. m.	1.06	1.24 p. m.	1.40 p. m.	0.01	0.35	0.75	0.84	0.88																
July 24	D. N. a. m.	9.44 a. m.	4.75	4.47 a. m.	5.37 a. m.	0.27	0.16	0.33	0.52	0.84	1.16	1.37	1.62	2.11	2.49	2.78										
Sept. 10	6.21 p. m.	8.30 p. m.	1.05	6.23 p. m.	7.14 a. m.	0.37	0.70	1.33	1.96	4.00	4.10	4.17	4.25	4.30	4.36	4.38										
Sept. 10						0.01	0.27	0.47	0.57	0.65	0.73	0.81	0.86	0.91	0.96	1.00										
Meridian, Miss.:																										
Apr. 15-16	9.40 p. m.	9.00 a. m.	1.83	12.32 a. m.	12.51 a. m.	T.	0.27	0.48	0.58	0.73																
May 20	6.38 a. m.	6.30 p. m.	2.53	8.10 a. m.	8.33 a. m.	0.11	0.11	0.45	0.75	1.11	1.20															
June 5	1.15 a. m.	6.00 a. m.	1.81	4.18 a. m.	4.58 a. m.	0.11	0.17	0.28	0.47	0.71	0.84	0.97	1.03	1.15												
June 20	4.55 p. m.	7.05 p. m.	1.07	5.31 p. m.	6.19 p. m.	0.01	0.19	0.39	0.44	0.46	0.49	0.60	0.66	0.80	0.86	0.91										
July 13	8.18 p. m.	10.20 p. m.	1.26	9.01 p. m.	9.25 p. m.	0.01	0.19	0.49	0.87	1.10	1.16															
July 24	10.10 a. m.	5.35 p. m.	1.08	2.16 p. m.	2.37 p. m.	0.02	0.13	0.34	0.67	0.87	0.88															
Aug. 4	3.23 p. m.	7.05 p. m.	1.68	3.23 p. m.	4.05 p. m.	0.00	0.10	0.32	0.52	0.67	0.88	1.11	1.25	1.43	1.49											
Vicksburg, Miss.:																										
Apr. 15-16																										

EXCESSIVE RAINFALL, 1910.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1910, 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.
OHIO VALLEY AND TENNESSEE—CON.																			
Evansville, Ind.:																			
May 2-3.....	10.05 p. m.	1.00 a. m.	0.65	10.26 p. m.	10.50 p. m.	.04	.09	.13	.23	.41	.53								
July 3.....	1.45 p. m.	2.50 p. m.	.75	2.18 p. m.	2.38 p. m.	.03	.16	.37	.60	.72									
July 4.....	12.10 p. m.	12.52 p. m.	.82	12.17 p. m.	12.32 p. m.	.04	.35	.66	.78										
July 6.....	4.55 a. m.	8.15 a. m.	1.33	5.01 a. m.	5.31 a. m.	.02	.08	.14	.31	.43	.59	.69							
July 9.....	2.40 p. m.	3.30 p. m.	.90	2.46 p. m.	3.03 p. m.	.01	.40	.67	.79										
July 25.....	8.35 p. m.	10.40 p. m.	2.22	8.42 p. m.	10.02 p. m.	.02	.30	.47	.59	.71	.80	.90	.99	1.11	1.24	1.37	1.74	2.17	
Sept. 4.....	12.35 p. m.	2.25 p. m.	.79	12.40 p. m.	1.02 p. m.	.01	.22	.38	.52	.63	.67								
Oct. 3-4.....	10.21 p. m.	12.50 p. m.	3.74	8.13 a. m.	9.03 a. m.	1.38	1.11	.22	.31	.35	.37	.46	.56	.69	.79	.86			
Oct. 4-6.....	10.20 p. m.	2.00 p. m.	7.14	3.47 a. m.	4.37 a. m.	2.32	.07	.14	.33	.41	.51	.63	.77	.85	1.15	1.23			
				6.08 a. m.	6.49 a. m.	.53	.06	.23	.40	.49	.53	.59	.64	.71	.83	.85			
						1.66	.15	.32	.42	.44	.58	.75	.88	.95	.97				
Indianapolis, Ind.:																			
May 21.....	D. N. a. m.	5.55 a. m.	1.29	2.52 a. m.	4.00 a. m.	.01	.26	.33	.35	.36	.36	.37	.47	.66	.88	.94	1.01	1.20	
June 27.....	11.50 a. m.	4.45 p. m.	1.42	12.52 p. m.	1.17 p. m.	.18	.06	.28	.42	.70	.90								
July 11.....	3.22 p. m.	5.00 p. m.	1.26	3.54 p. m.	4.22 p. m.	.02	.08	.15	.39	.69	1.06	1.15							
Aug. 18.....	7.21 a. m.	12.15 p. m.	1.18	11.23 a. m.	11.45 a. m.	.38	.05	.12	.47	.74	.78								
Aug. 25.....	4.00 p. m.	7.45 p. m.	1.10	4.21 p. m.	4.40 p. m.	.10	.28	.51	.70	.77									
Sept. 5.....	6.10 p. m.	D. N. p. m.	1.43	7.30 p. m.	8.03 p. m.	.31	.26	.34	.57	.66	.85	.89	1.02						
Cincinnati, Ohio:																			
June 27.....	11.15 a. m.	2.35 p. m.	1.16	12.22 p. m.	1.11 p. m.	.22	.10	.25	.35	.42	.47	.51	.55	.60	.68	.73			
July 17.....	10.00 a. m.	1.40 p. m.	.91	10.50 a. m.	11.26 a. m.	.01	.12	.24	.38	.64	.74								
Sept. 13.....	4.25 a. m.	6.10 a. m.	.96	5.17 a. m.	5.55 a. m.	.13	.09	.21	.28	.31	.35	.55	.76	.82					
Oct. 5-6.....	6.20 a. m.	7.55 p. m.	4.68	4.41 p. m.	5.21 p. m.	.32	.09	.16	.23	.30	.39	.49	.55	.64					
				3.09 a. m.	3.40 a. m.	2.46	.11	.24	.41	.51	.62	.71	.79	.86					
Columbus, Ohio:																			
Sept. 8.....	4.15 a. m.	9.25 a. m.	1.23	6.52 a. m.	7.13 a. m.	.22	.10	.19	.33	.46	.47								
				8.57 a. m.	9.13 a. m.	.80	.17	.28	.41	.44									
Pittsburgh, Pa.:																			
Aug. 14.....	4.15 p. m.	5.35 p. m.	.92	4.15 p. m.	5.10 p. m.	T.													
Sept. 8.....	7.06 p. m.	9.43 p. m.	1.82	7.08 p. m.	7.58 p. m.	.01	.21	.38	.60	.77	.95	1.07	1.23	1.37	1.48	1.60	.92		
Sept. 13.....	6.07 a. m.	9.10 a. m.	1.10	6.55 a. m.	7.18 a. m.	.01	.21	.48	.62	.76	.88								
Parkersburg, W. Va.:																			
May 21.....	3.10 p. m.	4.10 p. m.	.58	3.47 p. m.	4.08 p. m.	.01	.19	.36	.43	.56	.57								
Sept. 2-3.....	11.52 p. m.	2.50 a. m.	.51	12.02 a. m.	12.19 a. m.	.01	.20	.29	.41	.44									
Elkins, W. Va.:																			
June 19.....	12.05 a. m.	1.40 a. m.	.82	12.55 a. m.	1.35 a. m.	.08	.33	.38	.43	.47	.55	.59	.66	.74					
Aug. 21.....	2.00 a. m.	6.55 a. m.	1.06	3.09 a. m.	3.48 a. m.	.20	.21	.29	.33	.37	.48	.58	.70	.78					
	6.30 p. m.	8.50 p. m.	1.57	6.40 p. m.	7.35 p. m.	.01	.19	.45	.79	.86	.89	.92	1.02	1.18	1.27	1.34	1.41		
LOWER LAKE REGION.																			
Buffalo, N. Y.:																			
July 12.....	5.10 p. m.	7.40 p. m.	.54	5.21 p. m.	5.48 p. m.	.01	.14	.15	.18	.41	.47	.51							
July 24.....	5.45 p. m.	9.00 p. m.	3.08	6.45 p. m.	7.26 p. m.	.04	.09	.15	.27	.44	.53	.56	.70	1.01					
Aug. 10.....	3.20 a. m.	4.30 a. m.	.57	3.29 a. m.	3.49 a. m.	T.	.14	.39	.51	.56									
Sept. 5.....	7.57 p. m.	8.52 p. m.	.32	8.18 p. m.	8.28 p. m.	T.	.16	.31											
Canton, N. Y.:																			
Oswego, N. Y.:																			
July 10.....	12.55 p. m.	2.00 p. m.	.86	1.09 p. m.	1.39 p. m.	.02	.20	.29	.42	.58	.65	.74							
Aug. 31.....	8.02 p. m.	10.35 p. m.	.96	9.16 p. m.	9.49 p. m.	.27	.10	.14	.22	.28	.38	.47	.57						
Rochester, N. Y.:																			
Aug. 31-Sept. 1.....	11.25 p. m.	3.00 a. m.	1.78	12.12 a. m.	1.48 a. m.	.28	.08	.16	.29	.42	.57	.62	.63	.67	.74	.85	1.00	1.22	1.48
Sept. 3.....	5.04 p. m.	6.30 p. m.	.57	5.07 p. m.	5.23 p. m.	.01	.23	.42	.50	.53									
Syracuse, N. Y.:																			
May 20-21.....	4.45 p. m.	D. N. a. m.	1.38	12.03 a. m.	12.43 a. m.	.45	.05	.22	.44	.54	.63	.70	.78	.84					
July 27.....	7.23 p. m.	9.00 p. m.	.71	7.25 p. m.	7.35 p. m.	T.	.21	.54											
Aug. 10.....	2.31 p. m.	6.08 p. m.	.79	2.41 p. m.	3.00 p. m.	.05	.14	.17	.28	.42									
Sept. 5-6.....	9.05 p. m.	D. N. a. m.	1.40	1.08 a. m.	1.42 a. m.	.35	.27	.44	.56	.61	.72	.88	1.00						
Erie, Pa.:																			
June 26.....	10.35 p. m.	10.55 p. m.	.46	10.43 p. m.	10.54 p. m.	.01	.16	.44	.45										
July 12.....	3.25 p. m.	5.40 p. m.	1.43	3.54 p. m.	4.14 p. m.	.09	.41	.74	.93	1.00									
July 12-13.....	11.45 p. m.	D. N. a. m.	.51	11.49 p. m.	12.04 a. m.	.01	.17	.31	.36										
Cleveland, Ohio:																			
Apr. 4.....	12.05 p. m.	1.44 p. m.	.91	12.26 p. m.	12.55 p. m.	.03	.09	.30	.64	.71	.76	.80							
May 1.....	5.05 p. m.	8.17 p. m.	.84	5.42 p. m.	5.52 p. m.	.15	.25	.39											
Sept. 3.....	7.05 p. m.	8.15 p. m.	.53	7.21 p. m.	7.29 p. m.	.02	.18	.50											
Sept. 4.....	8.42 a. m.	9.22 a. m.	.68	8.45 a. m.	9.05 a. m.	.01	.17	.42	.58	.67									
Sandusky, Ohio:																			
Apr. 4.....	11.00 a. m.	11.50 a. m.	1.04	11.10 a. m.	11.37 a. m.	.03	.20	.47	.76	.90	.97	1.00							
July 6.....	4.00 p. m.	5.30 p. m.	.45	4.06 p. m.	4.20 p. m.	.01	.10	.23	.38										
Oct. 21.....	3.53 p. m.	4.45 p. m.	.44	4.00 p. m.	4.12 p. m.	T.	.22	.35	.38										
Toledo, Ohio:																			
May 2.....	12.52 p. m.	3.10 p. m.	.67	1.32 p. m.	1.46 p. m.	.04	.19	.42	.60										
July 26-27.....	10.19 p. m.	5.50 a. m.	.79	4.03 a. m.	4.21 a. m.	.24	.07	.35	.49	.54									
Aug. 18.....	7.27 a. m.	10.20 a. m.	1.14	8.05 a. m.	8.35 a. m.	.21	.13	.23	.38	.46	.57	.67							
Detroit, Mich.:																			
May 21-22.....	D. N. p. m.	D. N. a. m.	.70	12.35 a. m.	12.50 a. m.	.06	.29	.49	.57										

¹ Oct. 5th.

² No excessive precipitation.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1910, 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.																			
Minneapolis, Minn.:																			
June 25	3.35 p. m.	4.35 p. m.	.58	4.11 p. m.	4.28 p. m.	.01	.09	.38	.55	.57									
Aug. 29-30	10.50 p. m.	D.N. a. m.	.60	1.27 a. m.	1.37 a. m.	.14	.19	.37											
Sept. 2	4.15 p. m.	5.10 p. m.	1.12	4.29 p. m.	4.53 p. m.	.03	.30	.35	.64	.87	.98								
St. Paul, Minn.:																			
Sept. 2	4.20 p. m.	6.20 p. m.	.61	5.02 p. m.	5.12 p. m.	.01	.34	.52											
La Crosse, Wis.:																			
Aug. 8	12.56 p. m.	2.23 p. m.	.83	1.46 p. m.	2.23 p. m.	.10	.08	.24	.37	.46	.58	.64	.68	.73					
Sept. 4	5.59 p. m.	7.10 p. m.	1.05	6.20 p. m.	6.59 p. m.	.09	.07	.17	.43	.54	.66	.87	.92	.96					
Sept. 4	7.07 p. m.	11.35 p. m.	1.02	11.09 p. m.	11.21 p. m.	.65	.10	.30	.35										
Madison, Wis.:																			
June 18	11.40 a. m.	12.00 m.	.37	11.40 a. m.	11.55 a. m.	.00	.13	.27	.37	.56	.63	.68	.70	.75	.82	.85	1.15	1.25	
Aug. 22-23	11.30 p. m.	4.15 a. m.	3.15	12.09 a. m.	1.13 a. m.	.22	.17	.39	.46	.63	.86	.99	1.11	1.30	1.43				
Aug. 25	3.50 a. m.	7.35 a. m.	1.55	4.22 a. m.	4.52 a. m.	.09	.10	.36	.48	.73	.87	.93							
Sept. 5	12.55 a. m.	D.N. a. m.	.40	1.07 a. m.	1.17 a. m.	.05	.10	.32											
Charles City, Iowa:																			
Aug. 17	12.10 a. m.	5.00 a. m.	.74	12.21 a. m.	12.40 a. m.	.05	.11	.30	.45	.50									
Aug. 20	12.20 a. m.	2.15 a. m.	.99	12.32 a. m.	12.50 a. m.	.02	.19	.32	.75	.84									
Davenport, Iowa:																			
May 21	5.10 p. m.	6.05 p. m.	.51	5.36 p. m.	5.48 p. m.	.05	.10	.41	.46										
July 14	11.13 a. m.	12.55 p. m.	2.01	11.37 a. m.	12.13 p. m.	.01	.38	.92	1.38	1.59	1.61	1.62	1.73	1.82					
Aug. 17-18	11.25 p. m.	1.00 a. m.	1.10	11.31 p. m.	12.21 a. m.	.02	.16	.24	.33	.45	.60	.72	.79	.87	.92	.98			
Aug. 20	1.45 p. m.	3.53 p. m.	.79	2.03 p. m.	2.28 p. m.	.02	.15	.26	.33	.55	.65								
Aug. 30	7.42 a. m.	11.30 a. m.	.60	7.53 a. m.	8.08 a. m.	.02	.14	.28	.54										
Des Moines, Iowa:																			
Aug. 3	D.N. a. m.	D.N. a. m.	.70	1.24 a. m.	1.46 a. m.	.01	.18	.32	.37	.49	.55								
Sept. 11-12	D.N. a. m.	D.N. a. m.	1.32	10.36 p. m.	11.18 p. m.	.40	.07	.26	.35	.45	.62	.65	.70	.79	.82				
Dubuque, Iowa:																			
May 21	7.18 p. m.	10.05 p. m.	.58	8.48 p. m.	9.05 p. m.	.01	.07	.22	.40	.42									
June 26-27	5.43 p. m.	D.N. a. m.	1.81	6.23 p. m.	7.11 p. m.	.35	.08	.13	.19	.28	.38	.48	.55	.74	.81	.87			
Aug. 17-18	5.15 p. m.	5.45 a. m.	1.51	7.10 p. m.	7.29 p. m.	.01	.14	.30	.37	.44									
Aug. 20	10.57 a. m.	12.42 p. m.	.80	11.57 a. m.	12.40 p. m.	.03	.14	.22	.30	.39	.49	.59	.65	.74	.77				
Keokuk, Iowa:																			
Apr. 14	8.00 p. m.	11.00 p. m.	1.22	8.27 p. m.	8.55 p. m.	.09	.20	.40	.49	.61	.72	.82							
May 1-2	8.00 p. m.	5.15 a. m.	2.88	11.10 p. m.	12.54 a. m.	.45	.17	.34	.48	.49	.50	.50	.51	.52	.62	.94	1.20	1.29	1.82
Cairo, Ill.:																			
Apr. 14	5.40 p. m.	D.N. p. m.	1.42	6.09 p. m.	6.19 p. m.	.10	.21	.42											
Apr. 15-16	6.17 p. m.	D.N. a. m.	1.83	6.42 p. m.	7.03 p. m.	.04	.20	.44	.65	.83	.85								
May 24	D.N. a. m.	6.55 a. m.	1.09	1.26 a. m.	2.00 a. m.	.06	.08	.14	.24	.36	.45	.56	.65						
June 4	10.14 a. m.	12.55 p. m.	.75	11.38 a. m.	11.51 a. m.	.28	.20	.32	.40										
July 2	4.15 p. m.	5.50 p. m.	.60	4.18 p. m.	4.32 p. m.	.01	.20	.36	.48										
July 3	9.30 a. m.	1.15 p. m.	1.06	11.30 a. m.	11.42 a. m.	.02	.20	.34	.36										
July 5	1.53 p. m.	2.30 p. m.	.48	2.05 p. m.	2.20 p. m.	.08	.07	.20	.29										
July 8	8.05 p. m.	D.N. p. m.	1.18	8.37 p. m.	9.14 p. m.	.05	.07	.22	.36	.45	.71	.99	1.09	1.12					
July 17	4.48 p. m.	11.05 p. m.	1.06	8.49 p. m.	9.08 p. m.	.83	.15	.28	.36	.41									
Aug. 23	5.06 a. m.	8.35 a. m.	1.59	8.55 a. m.	8.19 a. m.	.02	.18	.38	.58	.74	.86	.91	.95	1.00	1.08				
Oct. 3-4	7.05 p. m.	12.45 p. m.	5.64	4.18 a. m.	7.18 a. m.	1.78	.07	.15	.22	.29	.45	.51	.55	.65	.79	.99			
Oct. 4-5	8.10 p. m.	D.N. a. m.	.96	12.47 a. m.	1.04 a. m.	.08	.21	.34	.49	.53									
Oct. 5-6	7.55 a. m.	9.30 a. m.	4.17	8.51 a. m.	9.40 a. m.	.29	.17	.27	.32	.36	.43	.46	.55	.61	.66	.77			
La Salle, Ill.:																			
May 21	4.05 p. m.	7.07 p. m.	1.54	5.20 p. m.	5.55 p. m.	.07	.07	.29	.62	.96	1.17	1.31	1.37						
Aug. 15-16	6.50 p. m.	3.30 a. m.	3.30	8.11 p. m.	9.45 p. m.	.23	.07	.11	.23	.28	.33	.37	.39	.43	.48	.55	.74	1.00	1.41
Sept. 4-5	4.23 p. m.	D.N. a. m.	.82	10.35 p. m.	10.54 p. m.	.30	.16	.24	.38	.44									
Sept. 8	1.00 a. m.	4.00 a. m.	1.00	2.51 a. m.	3.16 a. m.	.20	.11	.24	.46	.63	.69								
Sept. 12	7.25 a. m.	8.10 p. m.	1.38	5.03 p. m.	5.23 p. m.	.23	.13	.44	.89	1.07									
Sept. 19	3.55 a. m.	5.40 a. m.	.59	4.04 a. m.	4.19 a. m.	.01	.08	.22	.50										
Peoria, Ill.:																			
July 28	12.54 a. m.	6.34 a. m.	1.71	1.00 a. m.	2.00 a. m.	.03	.08	.26	.40	.48	.51	.54	.60	.76	1.04	1.27	1.44		
Aug. 17	1.38 p. m.	2.12 p. m.	.47	1.42 p. m.	1.53 p. m.	.01	.35	.45	.46										
Oct. 30	2.37 p. m.	3.41 p. m.	.70	2.46 p. m.	3.01 p. m.	.03	.19	.41	.56										
Nov. 27	2.25 a. m.	6.32 a. m.	.59	2.42 a. m.	2.56 a. m.	.05	.12	.31	.42										
Springfield, Mo.:																			
June 25	6.00 p. m.	7.20 p. m.	1.59	6.13 p. m.	6.56 p. m.	.01	.24	.45	.67	.87	1.07	1.16	1.30	1.47	1.57				
June 26	5.45 p. m.	7.40 p. m.	1.01	6.19 p. m.	7.00 p. m.	.04	.18	.34	.42	.52	.59	.64	.74	.94	.96				
Sept. 7-8	D.N. p. m.	5.25 a. m.	2.10	12.22 a. m.	12.46 a. m.	.24	.07	.15	.31	.46	.50								
Sept. 24	4.14 a. m.	5.50 a. m.	.66	4.23 a. m.	4.45 a. m.	1.65	.15	.19	.26	.33	.37	.47	.63	.67	.74				
Nov. 26-27	6.35 p. m.	D.N. a. m.	1.45	4.17 a. m.	4.26 a. m.	.01	.17	.34	.42										
Hannibal, Mo.:																			
June 9-10	D.N. p. m.	8.25 a. m.	2.93	12.52 a. m.	2.32 a. m.	.57	.09	.19	.24	.35	.44	.55	.59	.70	.83	.89	.96	1.20	1.58
July 14-15	7.55 p. m.	12.35 p. m.	3.36	10.09 p. m.	10.24 p. m.	.18	.15	.41	.53										
July 28-29	D.N. p. m.	5.30 a. m.	4.84	11.53 p. m.	12.22 a. m.	.02	.14	.16	.16	.28	.62	.67							
Aug. 20-21	9.40 p. m.	D.N. a. m.	.54	12.22 a. m.	12.40 a. m.	.03	.08	.22	.39	.45									
Sept. 26	D.N. a. m.	7.55 a. m.	1.55	2.25 a. m.	2.59 a. m.	.04	.14	.32	.37	.39	.65	.73	.79						

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1910, 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—contd.																			
St. Louis, Mo.:																			
June 27	10.35 a. m.	10.57 a. m.	0.52	10.42 a. m.	10.53 a. m.	.01	.30	.49	.51										
July 29	4.10 a. m.	7.55 a. m.	.97	5.15 a. m.	5.39 a. m.	.09	.05	.13	.25	.49	.56								
Sept. 3-4	10.10 p. m.	11.58 a. m.	3.07	12.17 a. m.	12.56 a. m.	.52	.06	.12	.30	.45	.76	.98	1.12	1.20					
Sept. 23-24	11.00 p. m.	7.30 a. m.	.53	9.44 a. m.	10.08 a. m.	2.29	.12	.32	.37	.44	.49								
Oct. 5-6	7.30 a. m.	3.30 a. m.	2.82	4.54 a. m.	5.11 a. m.	.01	.13	.30	.41	.45									
				8.54 a. m.	9.23 a. m.	.12	.18	.38	.61	.71	.84	.90							
MISSOURI VALLEY.																			
Columbia, Mo.:																			
Apr. 4	3.40 p. m.	D. N. p. m.	1.30	4.42 p. m.	4.57 p. m.	.01	.40	.62	.66										
May 2	D. N. a. m.	7.15 a. m.	1.08	5.45 a. m.	6.13 a. m.	.27	.21	.23	.26	.49	.62	.67							
June 8	12.40 p. m.	8.30 p. m.	2.72	5.54 p. m.	7.33 p. m.	1.20	.07	.21	.37	.44	.46	.48	.59	.68	.74	.86	1.04	1.27	1.42
July 14	10.32 a. m.	11.05 a. m.	.61	10.33 a. m.	10.43 a. m.	T.	.33	.59											
July 14-15	D. N. p. m.	8.30 a. m.	1.79	12.21 a. m.	1.11 a. m.	.23	.09	.16	.18	.20	.28	.30	.56	.74	.83	.90			
Sept. 1	8.16 a. m.	11.30 a. m.	1.21	8.27 a. m.	8.56 a. m.	.01	.30	.48	.67	.74	.81	.85							
Sept. 3-4	7.10 p. m.	D. N. a. m.	2.02	9.34 p. m.	9.58 p. m.	.30	.11	.19	.25	.51	.64								
				3.30 a. m.	3.35 a. m.	1.31	.31												
Sept. 26	D. N. a. m.	9.45 a. m.	2.11	2.17 a. m.	2.51 a. m.	.09	.08	.10	.23	.39	.58	.64	.70						
				4.50 a. m.	5.30 a. m.	.96	.15	.33	.37	.42	.49	.56	.61	.68					
Kansas City, Mo.:																			
May 1-2	8.45 p. m.	6.10 a. m.	2.94	12.01 a. m.	1.40 a. m.	.39	.14	.34	.30	.41	.53	.71	.94	1.04	1.05	1.05	1.06	1.24	1.81
May 28	8.56 p. m.	D. N. p. m.	.90	11.23 p. m.	11.44 p. m.	.07	.15	.32	.68	.78	.83								
June 8	6.50 a. m.	6.22 p. m.	3.25	12.22 p. m.	1.20 p. m.	.89	.06	.13	.24	.40	.94	1.43	1.86	2.03	2.05	2.07	2.27		
July 14	6.57 a. m.	11.35 a. m.	1.14	7.19 a. m.	7.57 a. m.	.06	.10	.15	.21	.32	.54	.70	.84	.92					
Aug. 2	5.45 a. m.	8.50 a. m.	2.22	6.08 a. m.	7.08 a. m.	.01	.19	.29	.32	.39	.52	.76	1.03	1.48	1.67	1.80	1.98		
Aug. 23-24	9.45 p. m.	3.48 a. m.	.69	12.09 a. m.	12.30 a. m.	.03	.10	.20	.25	.44	.47								
Sept. 1	6.30 a. m.	1.20 p. m.	1.27	6.34 a. m.	6.53 a. m.	.01	.13	.43	.63	.68									
Sept. 25-26	8.20 p. m.	6.40 a. m.	2.59	8.53 p. m.	10.08 p. m.	.06	.09	.20	.25	.27	.32	.40	.52	.78	.99	1.09	1.13	1.78	
St. Joseph, Mo.:																			
Sept. 3	6.50 a. m.	7.20 a. m.	.29	7.00 a. m.	7.05 a. m.	T.	.26												
Springfield, Mo.:																			
May 30	1.35 p. m.	2.22 p. m.	.35	1.39 p. m.	1.49 p. m.	T.	.09	.30											
July 3	2.52 p. m.	7.51 p. m.	.70	3.00 p. m.	3.15 p. m.	.03	.23	.31	.36										
Aug. 6-9	9.50 p. m.	7.30 a. m.	1.83	5.10 a. m.	5.55 a. m.	1.07	.06	.14	.24	.38	.45								
Aug. 15	6.23 a. m.	7.15 a. m.	.60	6.37 a. m.	6.54 a. m.	.02	.13	.33	.52	.58									
Sept. 2	11.15 a. m.	3.15 p. m.	1.08	11.18 a. m.	11.38 a. m.	.01	.22	.42	.54	.60									
Sept. 26	7.38 p. m.	10.32 p. m.	.53	8.54 p. m.	9.03 p. m.	.07	.30	.44											
Oct. 5	10.00 a. m.	2.22 p. m.	1.58	11.50 a. m.	12.20 p. m.	.37	.18	.55	.73	.93	.00	1.04							
Iola, Kans.:																			
Apr. 30-May 1	11.21 p. m.	1.35 a. m.	.78	1.05 a. m.	1.18 a. m.	.26	.18	.45	.52										
May 6	2.55 p. m.	8.10 p. m.	1.26	4.30 p. m.	4.55 p. m.	.23	.06	.13	.22	.37	.52								
May 20	10.16 p. m.	11.08 p. m.	.48	10.28 p. m.	10.46 p. m.	.01	.11	.20	.31	.40									
May 30	2.05 p. m.	3.15 p. m.	.53	2.45 p. m.	2.55 p. m.	.03	.30	.49											
Aug. 17	9.15 a. m.	12.30 p. m.	1.22	9.29 a. m.	9.47 a. m.	.08	.26	.59	.74	.79									
Sept. 2	7.35 a. m.	11.46 a. m.	1.39	7.43 a. m.	8.13 a. m.	.01	.24	.47	.60	.77	.89	.95							
Sept. 3	3.51 p. m.	7.22 p. m.	2.15	4.18 p. m.	5.08 p. m.	.05	.10	.35	.43	.52	.85	1.25	1.37	1.47	1.57	1.65			
Sept. 20-24	11.25 p. m.	12.05 a. m.	.68	11.33 p. m.	11.55 p. m.	.02	.14	.21	.40	.61	.66								
Topeka, Kans.:																			
May 20	9.35 p. m.	11.35 p. m.	1.03	9.45 p. m.	10.03 p. m.	.02	.22	.39	.66	.78									
July 11	5.07 p. m.	8.45 p. m.	1.74	5.14 p. m.	6.05 p. m.	.04	.07	.27	.53	.61	.76	1.13	1.26	1.31	1.39	1.46	1.53		
Aug. 2	4.15 a. m.	7.25 a. m.	1.94	4.53 a. m.	5.35 a. m.	.03	.09	.24	.75	.98	1.30	1.44	1.55	1.65	1.69				
Aug. 8-9	6.50 p. m.	2.15 a. m.	1.21	7.02 p. m.	7.15 p. m.	.01	.17	.35	.39										
Aug. 17	5.30 a. m.	10.15 a. m.	2.17	5.44 a. m.	6.33 a. m.	.03	.12	.28	.41	.55	.63	.64	.73	.92	1.18	1.27			
Sept. 1	12.30 p. m.	12.30 p. m.	1.62	4.12 a. m.	4.22 a. m.	.07	.16	.33											
Sept. 2	2.45 a. m.	12.10 p. m.	2.06	5.27 a. m.	6.00 a. m.	.46	.18	.32	.54	.69	.78	.87	.93						
Lincoln, Nebr.:																			
May 28	4.49 p. m.	6.22 p. m.	.52	5.28 p. m.	5.38 p. m.	.11	.14	.36											
July 7	10.10 a. m.	1.54 p. m.	2.26	10.41 a. m.	11.56 a. m.	.11	.15	.32	.47	.57	.64	.68	.68	.94	1.13	1.19	1.47	1.92	
Aug. 2	11.00 p. m.	11.59 p. m.	.87	11.06 p. m.	11.26 p. m.	.01	.28	.52	.75	.80									
Aug. 16-17	7.45 p. m.	6.15 a. m.	3.28	7.54 p. m.	8.44 p. m.	.05	.18	.31	.36	.38	.53	.81	.99	1.15	1.29	1.38			
Aug. 21	12 mid't.	6.10 a. m.	1.02	2.04 a. m.	2.11 a. m.	.01	.26	.31											
				3.53 a. m.	4.13 a. m.	.47	.06	.21	.36	.46									
				9.25 p. m.	11.14 p. m.	T.	.12	.31	.47	.61	.78	.99	1.27	1.50	1.68	1.72	1.91	2.39	2.77
				1.03 a. m.	1.53 a. m.	3.29	.05	.06	.08	.12	.26	.48	.56	.61	.69	.83			
				1.53 a. m.	2.43 a. m.		.92	1.11	.29	1.46	1.69	1.92	2.08	2.14	2.19	2.34			
Aug. 23-29	8.20 p. m.	6.20 a. m.	8.38	2.43 a. m.	3.33 a. m.		2.49	2.66	2.75	2.82	2.88	2.98	3.06	3.13	3.18	3.24			
				3.33 a. m.	4.23 a. m.		3.28	3.34	3.45	3.49	3.57	3.65	3.72	3.81	3.89	4.00			
				4.23 a. m.	5.13 a. m.		4.04	4.06	4.06	4.12	4.22	4.28	4.29	4.31	4.47	4.50			
				5.13 a. m.	6.03 a. m.		4.60	4.68	4.77	4.81	4.84	4.87	4.90	4.96	5.02	5.06			
Sept. 22-23	10.35 p. m.	1.45 p. m.	3.89	8.22 a. m.		2.45	.05	.11	.18	.29	.39	.51							
Omaha, Nebr.:																			
July 2	4.15 p. m.	5.40 p. m.	.76	4.28 p. m.	5.01 p. m.	.01	.08	.15	.24	.43	.59	.66	.71						
Aug. 13	4.10 p. m.	6.15 p. m.	.83	4.20 p. m.	4.38 p. m.	.02	.31	.53	.60	.65									
Aug. 28-29	5.00 p. m.	6.10 a. m.	2.40	5.00 p. m.	5.12 p. m.	.00	.27	.43	.46										
Valentine, Nebr.:																			
June 8	1.57 p. m.	2.03 p. m.	.31	1.57 p. m.	2.03 p. m.	.00	.28	.31											
June 24	4.04 p. m.	5.07 p. m.	.59	4.19 p. m.	4.38 p. m.	.01	.24	.42	.48	.54									
	5.32 p. m.	9.17 p. m.	1.32	7.10 p. m.	7.30 p. m.	.55	.11	.21	.33	.43									
July 5	3.58 p. m.	4.15 p. m.	.52	3.58 p. m.	4.15 p. m.					.52									
Aug. 7	8.21 p. m.	9.43 p																	

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1910, 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—con.																				
Wichita, Kans.:																				
May 1-2.....	11.00 p. m.	12.20 a. m.	2.58	11.03 p. m.	11.59 p. m.	0.01	0.05	0.11	0.27	0.55	0.77	0.97	1.26	1.66	1.96	2.33	2.56			
May 15-16.....	4.40 p. m.	6.35 a. m.	.67	5.38 a. m.	6.00 a. m.	.03	.12	.28	.40	.58	.63									
June 7.....	3.45 a. m.	11.00 a. m.	1.19	8.42 a. m.	8.57 a. m.	.64	.13	.28	.39											
July 11-12.....	8.35 p. m.	2.00 a. m.	.96	9.36 p. m.	9.49 p. m.	.08	.13	.31	.37											
Aug. 31.....	4.20 a. m.	8.45 a. m.	2.52	4.34 a. m.	6.51 a. m.	.01	.17	.25	.32	.51	.59	.63	.91	1.10	1.26	1.33	1.47	1.57	1.63	
Oklahoma, Okla.:																				
Apr. 13.....	5.40 p. m.	10.45 p. m.	3.75	6.03 p. m.	7.48 p. m.	.01	.12	.21	.38	.51	.73	.91	1.12	1.31	1.45	1.67	2.01	2.45	3.15	3.46
SOUTHERN SLOPE.																				
Abilene, Tex.:																				
May 3.....	3.25 a. m.	7.10 a. m.	.99	5.03 a. m.	5.17 a. m.	.51	.07	.25	.39											
Aug. 18.....	12.40 p. m.	1.20 p. m.	1.00	12.50 p. m.	1.18 p. m.	.01	.15	.27	.40	.55	.89	.99								
Aug. 19.....	11.12 a. m.	1.35 p. m.	1.62	11.18 p. m.	12.09 p. m.	.01	.29	.41	.44	.46	.49	.55	.73	.87	1.22	1.45	1.47			
Sept. 5-6.....	3.50 p. m.	D. N. a. m.	1.32	4.27 p. m.	5.08 p. m.	.25	.08	.16	.21	.25	.38	.62	.70	.79	.81					
Oct. 18.....	8.35 p. m.	8.55 p. m.	.79	8.39 p. m.	8.51 p. m.	.01	.36	.72	.78											
Oct. 18-19.....	D.N. p. m.	D.N. a. m.	1.01	2.39 a. m.	2.55 a. m.	.75	.22	.46	.60	.64										
Amarillo, Tex.:																				
May 14-15.....	8.00 p. m.	9.43 a. m.	.78	2.34 a. m.	3.08 a. m.	.02	.13	.24	.42	.49	.58	.68	.71							
July 9.....	6.20 p. m.	8.45 p. m.	2.05	6.38 p. m.	7.45 p. m.	.02	.07	.27	.49	.60	.90	1.20	1.45	1.61	1.62	1.64	1.84	2.02		
Del Rio, Tex.:																				
Mar. 30.....	6.00 a. m.	7.15 a. m.	.94	6.02 a. m.	6.15 a. m.	.02	.27	.68	.72											
Apr. 9.....	4.55 p. m.	5.15 p. m.	.46	5.00 p. m.	5.14 p. m.	.02	.17	.38	.44											
Apr. 14.....	12.15 a. m.	12.50 a. m.	.46	12.23 a. m.	12.36 a. m.	.02	.10	.34	.44											
Oct. 3.....	1.50 a. m.	3.50 a. m.	.71	2.14 a. m.	2.32 a. m.	.06	.08	.28	.46	.51										
Roswell, N. Mex.¹																				
SOUTHERN PLATEAU.																				
El Paso, Tex.:																				
June 26.....	11.35 a. m.	1.20 p. m.	.63	12.28 p. m.	12.38 p. m.	.18	.21	.36												
Santa Fe, N. Mex.¹																				
Flagstaff, Ariz.:																				
July 31.....	12.40 p. m.	2.30 p. m.	.48	1.22 p. m.	1.35 p. m.	.05	.14	.34	.41											
Aug. 2.....	2.55 p. m.	4.20 p. m.	.98	3.14 p. m.	3.59 p. m.	.02	.34	.45	.50	.50	.61	.68	.74	.86	.93					
Aug. 22.....	10.15 a. m.	11.10 a. m.	.54	10.28 a. m.	10.44 a. m.	.01	.16	.30	.42	.46										
Phoenix, Ariz.¹																				
Yuma, Ariz.¹																				
Independence, Cal.¹																				
MIDDLE PLATEAU.																				
Reno, Nev.:																				
July 17.....	4.20 p. m.	7.00 p. m.	.82	4.42 p. m.	5.25 p. m.	.03	.15	.28	.37	.41	.45	.54	.63	.70	.73					
Tonopah, Nev.¹																				
Winnemucca, Nev.¹																				
Modena, Utah.¹																				
Salt Lake City, Utah.¹																				
Durango, Colo.¹																				
Grand Junction, Colo.¹																				
NORTHERN PLATEAU.																				
Baker, Oreg.²																				
Boise, Idaho¹																				
Lewiston, Idaho¹																				
Pocatello, Idaho¹																				
Spokane, Wash.:																				
July 21.....	1.50 p. m.	2.15 p. m.	.39	1.51 p. m.	2.01 p. m.	.01	.23	.36												
Walla Walla, Wash.¹																				

¹ No excessive precipitation.

² Destroyed by fire.

EXCESSIVE RAINFALL, 1910.

TABLE SHOWING THE ACCUMULATED AMOUNTS OF PRECIPITATION FOR EACH FIVE MINUTES DURING ALL STORMS OF 1910, 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.
NORTH PACIFIC COAST REGION.																				
North Head, Wash.																				
Port Crescent, Wash. ¹																				
Seattle, Wash. ¹																				
Tacoma, Wash. ¹																				
Tatoosh Island, Wash. ¹																				
Portland, Oreg. ¹																				
Roseburg, Oreg.: May 9	5.20 p. m.	6.45 p. m.	1.17	6.24 p. m.	6.45 p. m.	.04	.55	.80	1.10	1.14										
MIDDLE PACIFIC COAST REGION.																				
Eureka, Cal. ¹																				
Mount Tamalpais, Cal. ¹																				
Point Reyes Light, Cal. ¹																				
Red Bluff, Cal.: Nov. 24	10.15 a. m.	8.00 p. m.	1.64	3.30 p. m.	4.10 p. m.	.15	.11	.28	.43	.55	.66	.74	.82	.86						
Sacramento, Cal. ¹																				
San Francisco, Cal. ¹																				
San Jose, Cal. ¹																				
Southeast Farallon, Cal. ¹																				
SOUTH PACIFIC COAST REGION.																				
Fresno, Cal. ¹																				
Los Angeles, Cal. ¹																				
San Diego, Cal. ¹																				
San Luis Obispo, Cal. ¹																				
ISLAND POSSESSIONS.																				
Honolulu, Hawaii:																				
Jan. 5	10.30 a. m.	11.30 a. m.	.65	11.08 a. m.	11.22 a. m.	.27	.16	.29	.37											
Sept. 18	12.45 p. m.	1.05 p. m.	.60	12.46 p. m.	12.58 p. m.	.01	.27	.50	.59											
Sept. 19	12.13 p. m.	D.N. p. m.	1.35	1.15 p. m.	1.48 p. m.	.05	.06	.22	.36	.48	.55	.63	.67							
Sept. 20	12.06 p. m.	3.00 p. m.	1.11	12.12 p. m.	1.10 p. m.	.01	.13	.33	.37	.43	.51	.57	.59	.65	.69	.75	.92			
Dec. 30	8.25 p. m.	10.00 p. m.	.80	8.39 p. m.	8.58 p. m.	.04	.18	.44	.51	.68										
San Juan, P. R.:																				
Jan. 25	5.00 p. m.	8.15 p. m.	1.31	6.44 p. m.	7.22 p. m.	.32	.14	.42	.61	.70	.71	.74	.86	.95						
Mar. 6	2.00 p. m.	3.50 p. m.	.75	2.59 p. m.	3.21 p. m.	.16	.10	.26	.38	.51	.55									
Apr. 9	5.15 p. m.	10.50 p. m.	2.17	5.41 p. m.	6.53 p. m.	.08	.10	.23	.49	.77	.85	1.05	1.20	1.34	1.54	1.63	1.76	1.97		
Apr. 15	3.50 p. m.	6.40 p. m.	1.26	4.56 p. m.	5.39 p. m.	.26	.05	.13	.26	.42	.50	.59	.67	.78	.84					
May 5-6	2.05 a. m.	6.35 a. m.	1.31	5.21 a. m.	5.45 a. m.	.53	.21	.44	.57	.62	.70									
	5.25 p. m.	12.15 a. m.	1.59	9.07 p. m.	9.54 p. m.	.71	.14	.21	.32	.40	.43	.48	.55	.65	.73	.78				
June 22	11.15 a. m.	4.10 p. m.	3.42	11.20 a. m.	11.50 a. m.	.01	.19	.53	.88	1.12	1.32	1.62								
				2.50 p. m.	3.29 p. m.	2.28	.15	.27	.31	.41	.56	.81	.92	.99						
Aug. 7	3.05 a. m.	1.30 p. m.	1.94	5.17 a. m.	5.46 a. m.	.10	.10	.21	.33	.43	.50	.60								
Aug. 23	6.40 p. m.	11.15 p. m.	1.90	9.31 p. m.	10.10 p. m.	.70	.13	.22	.32	.54	.63	.72	.81	.89						
Sept. 6	2.50 p. m.	8.00 p. m.	4.30	6.16 p. m.	7.55 p. m.	.12	.08	.25	.40	.54	.66	.95	1.17	1.46	1.71	1.95	2.61	3.98	4.18	
Sept. 14	2.05 a. m.	4.15 a. m.	.86	3.29 a. m.	3.46 a. m.	.12	.11	.45	.64	.69										
Sept. 21	5.20 p. m.	6.05 p. m.	.52	5.33 p. m.	5.56 p. m.	.01	.13	.20	.27	.45	.50									
Nov. 4	4.55 p. m.	8.05 p. m.	.92	5.08 p. m.	5.38 p. m.	.02	.12	.37	.49	.60	.84									
Dec. 13	3.00 p. m.	7.50 p. m.	2.17	4.35 p. m.	5.10 p. m.	.10	.15	.26	.34	.47	.73	.92	1.01							
				6.01 p. m.	6.36 p. m.	1.37	.14	.31	.39	.45	.51	.59	.64							
Dec. 14	3.30 a. m.	3.10 p. m.	8.38	5.35 a. m.	7.10 a. m.	.78	.06	.20	.53	1.00	1.27	1.47	1.65	1.86	2.05	2.41	3.19	3.41		
				9.10 a. m.	10.40 a. m.	4.56	.12	.16	.21	.23	.35	.42	.54	.65	.74	.84	1.03	1.64	1.86	

¹ No excessive precipitation.

PART III.

MONTHLY AND ANNUAL METEOROLOGICAL SUMMARIES
FOR ONE HUNDRED AND NINETY STATIONS DUR-
ING 1910.

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) ΔA . The local correction for certain stations to reduce them to a homogeneous system.

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

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

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

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

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

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

The sum total of the depth of rain and melted snow is measured to within 0.01 inch 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 gauge is melted and measured as water. No correction is applied for the snow that is lost out of the gauge by the eddying action of the wind; consequently in some cases the record is less than would be given if the observer had measured cylinders of snow cut from the spots representing the average snowfall on the ground. When it is known that the catch of the snow gauge is markedly deficient, an independent ground measurement is made and used as the official record. The loss of both rain and snow, caused by high winds, from gauges 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 gauges 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_1 = height of thermometer above ground; h_r = height of rain gauge above ground; h_a = height of anemometer above ground.

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910.

ABILENE, TEX.

($\phi=32^{\circ} 23' N.$; $\lambda=99^{\circ} 40' W.$)

Month.	Pressure.			Temperature.						Moisture.											
	Monthly mean.	Extremes.		Mean.			Extremes.			Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.					
		Maximum.	Minimum.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	S. a. m.		S. p. m.	S. a. m.	S. p. m.	S. a. m.		S. p. m.	Total.	Maximum in 24 hours.	S. a. m.	S. p. m.	Daylight.
January.....	In. 28.325	In. 28.738	In. 27.934	39.0	51.0	58.9	35.5	47.7	82	17	28	30	68	49	0.171	0.155	0.37	0.35	3.8	3.3	4.8
February.....	28.289	28.730	27.862	35.2	49.3	58.8	30.2	44.5	82	11	26	25	70	41	.160	.144	.21	.13	4.5	5.1	4.6
March.....	28.261	28.484	27.873	51.9	70.9	77.2	50.1	63.6	90	33	38	35	61	30	.242	.213	.31	.17	4.1	4.1	4.4
April.....	28.177	28.480	27.808	55.1	73.3	78.8	52.9	65.8	94	38	42	36	63	32	.293	.246	1.31	1.01	3.3	3.6	3.7
May.....	28.157	28.482	27.811	62.4	77.6	83.2	59.5	71.4	97	45	54	49	76	42	.431	.358	2.11	.99	5.5	6.2	6.1
June.....	28.118	28.368	27.840	72.1	87.8	95.1	68.8	82.0	105	54	59	52	66	34	.520	.417	.74	.25	3.5	4.0	3.5
July.....	28.132	28.294	27.936	76.1	94.1	98.8	73.9	86.4	104	67	62	54	64	27	.568	.421	.32	.24	3.0	2.6	3.1
August.....	28.155	28.402	28.011	75.9	90.8	97.2	74.6	85.9	105	64	62	58	64	36	.566	.488	2.87	2.58	5.2	4.1	4.6
September.....	28.214	28.432	27.870	69.6	84.2	91.2	68.0	80.0	99	56	46	37	73	43	.533	.471	1.64	1.36	2.5	3.2	3.6
October.....	28.250	28.754	27.907	54.8	69.0	77.2	53.2	65.2	93	34	45	46	71	47	.329	.331	4.62	3.76	2.7	2.8	3.4
November.....	28.233	28.640	27.956	47.4	58.1	67.5	44.7	56.1	82	29	38	38	72	48	.242	.234	.38	.31	3.4	3.0	3.7
December.....	28.307	28.677	27.870	39.1	49.0	56.7	35.9	46.3	78	25	30	31	72	54	.177	.183	1.05	.81	5.2	2.7	5.7
Year.....	28.218	28.754	27.808	56.6	71.3	78.5	54.0	66.2	105	11	45	43	68	40	.353	.308	15.93	3.76	3.9	3.7	4.3

ALBANY, N. Y.

($\phi=42^{\circ} 39' N.$; $\lambda=73^{\circ} 45' W.$)

January.....	30.014	30.789	29.288	22.2	26.4	32.9	17.5	25.2	52	- 8	18	20	81	76	0.105	0.115	4.13	1.22	6.6	6.5	6.7
February.....	30.011	30.613	29.503	18.3	23.5	30.8	12.4	21.6	48	-10	14	18	84	77	.098	.104	3.29	.92	6.0	5.2	5.4
March.....	29.963	30.317	29.310	35.9	42.5	50.1	31.7	40.9	76	14	26	30	68	61	.148	.172	.52	.37	4.6	3.9	4.7
April.....	29.842	30.245	29.443	47.5	53.2	61.0	41.9	51.4	77	31	39	40	74	64	.251	.267	4.19	1.25	4.7	4.9	5.4
May.....	29.851	30.338	29.346	54.9	59.5	67.5	48.7	58.1	85	39	45	47	70	65	.314	.333	3.49	1.31	5.6	5.9	4.7
June.....	29.811	30.108	29.342	63.7	68.0	75.3	56.6	66.0	91	42	54	55	72	66	.432	.451	2.40	.73	5.4	6.1	5.1
July.....	29.780	30.091	29.563	70.7	76.5	85.0	63.2	74.1	96	55	61	60	71	58	.536	.530	1.28	.90	3.2	4.3	4.3
August.....	29.944	30.274	29.554	65.4	71.5	79.2	60.9	69.6	86	47	58	58	77	65	.484	.501	1.38	.84	4.9	4.8	5.0
September.....	29.953	30.247	29.679	58.6	63.6	72.1	53.5	62.3	84	40	53	55	81	73	.466	.451	3.21	1.37	5.3	4.0	5.0
October.....	29.892	30.381	29.377	48.5	53.7	62.9	43.5	53.2	83	30	42	42	59	65	.285	.283	4.87	.48	4.7	4.7	4.7
November.....	29.708	30.282	29.318	35.0	37.6	43.2	31.7	37.4	60	19	30	31	83	75	.170	.172	2.74	.74	7.4	7.0	7.7
December.....	29.947	30.684	29.294	20.0	22.7	29.4	14.4	21.9	47	- 3	15	17	81	76	.095	.097	1.01	.65	6.5	5.6	5.8
Year.....	29.896	30.789	29.288	45.1	49.9	57.4	39.6	48.5	96	-10	38	39	77	69	.277	.290	28.51	1.37	5.4	5.1	5.4

ALPENA, MICH.

($\phi=45^{\circ} 05' N.$; $\lambda=83^{\circ} 30' W.$)

January.....	29.364	30.081	28.515	18.7	21.9	28.4	14.7	21.6	39	- 5	15	18	84	82	0.085	0.097	1.56	0.55 ¹	8.0	6.6	7.5
February.....	29.414	29.874	28.830	12.4	19.2	26.2	7.9	17.0	38	-11	8	14	82	80	.068	.089	1.09	.28 ¹	6.4	4.8	5.7
March.....	29.340	29.613	28.852	31.4	38.3	47.1	27.8	37.4	81	9	26	27	79	67	.145	.157	.44	.26	6.0	3.7	5.0
April.....	29.260	29.647	28.743	39.9	42.8	50.0	35.4	42.7	72	28	34	37	81	81	.201	.225	2.82	.75	5.7	6.1	6.2
May.....	29.329	29.589	28.890	46.1	48.9	57.2	38.5	47.8	74	31	37	38	73	68	.231	.235	2.10	.65	5.3	5.3	5.5
June.....	29.322	29.587	28.817	59.5	64.2	72.7	52.8	62.8	98	39	51	52	73	66	.384	.400	.92	.55	3.2	3.5	4.0
July.....	29.261	29.615	29.007	64.5	70.9	79.4	57.3	68.4	99	43	55	56	73	60	.445	.454	1.70	.73	4.5	3.7	3.9
August.....	29.341	29.661	28.966	60.7	66.0	74.0	54.6	64.3	86	43	55	56	82	73	.438	.472	2.84	1.88	4.9	5.4	5.8
September.....	29.418	29.761	29.009	52.8	57.1	65.8	47.2	56.5	82	40	48	50	84	78	.339	.368	4.06	1.28	6.4	4.0	4.8
October.....	29.312	29.735	28.861	44.7	49.4	58.1	40.5	49.3	83	28	40	42	85	78	.262	.284	3.45	1.94	6.9	3.7	5.6
November.....	29.224	29.679	28.922	32.6	33.8	37.6	30.1	33.8	81	26	28	30	81	83	.149	.165	2.32	.70 ¹	9.8	8.7	8.0
December.....	29.355	29.914	28.708	20.4	22.1	28.1	15.2	21.6	37	- 2	17	18	84	85	.063	.101	1.29	.38 ¹	8.2	7.0	8.0
Year.....	29.328	30.081	28.515	40.3	44.6	52.0	35.2	43.6	99	-11	34	36	80	75	.237	.254	24.59	1.88	6.3	5.2	6.0

AMARILLO, TEX.

($\phi=35^{\circ} 13' N.$; $\lambda=101^{\circ} 50' W.$)

January.....	26.318	26.775	25.951	30.1	43.7	52.9	26.4	39.6	76	9	24	25	78	51	0.131	0.139	0.05	0.03	4.9	4.5	4.9
February.....	26.277	26.665	25.890	24.7	41.8	51.3	19.9	35.6	76	- 4	18	23	78	52	.101	.126	.17	.16	4.6	4.2	4.4
March.....	26.321	26.596	25.902	43.0	64.6	72.4	40.6	56.5	87	31	33	35	70	36	.196	.214	.34	.21	3.5	3.4	3.1
April.....	26.248	26.552	25.785	45.4	66.8	73.5	43.1	58.3	94	30	36	32	72	31	.221	.189	.59	.26	3.3	3.2	3.3
May.....	26.262	26.553	25.887	51.9	68.1	73.8	49.3	61.6	95	38	45	44	80	50	.310	.306	2.99	.79	6.1	5.0	5.1
June.....	26.240	26.511	25.896	65.3	82.2	89.7	62.0	75.8	103	50	56	49	73	36	.456	.371	.66	.31	4.1	5.6	3.7
July.....	26.273	26.462	26.071	65.9	86.7	93.1	65.8	79.4	100	58	59	55	73	38	.501	.445	3.57	2.17	4.6	5.0	3.6
August.....	26.302	26.586	26.110	65.9	82.2	88.7	63.8	76.2	99	49	59	58	81	49	.519	.505	2.19	.77	5.3	5.0	3.8
September.....	26.320	26.613	25.979	60.9	80.9	88.3	59.0	73.6	101	46	54	50	80	37	.433	.368	.65	.65	5.3	4.0	3.9
October.....	26.321	26.750	25.955	48.8	65.7	75.6	44.8	60.2	94	28	39	38	75	40	.250	.233	.26	.24	3.7	3.2	3.2
November.....	26.279	26.664	25.975	30.7	52.5	62.9	35.0	49.0	82	24	30	30	75	46	.169	.170	.28	.27	3.5	2.7	3.2
December.....	26.318	26.689	25.852	37.2	43.6	52.3	27.5	39.9	73	16	25	25	81	49	.133	.135	T.	T.	4.0	4.5	4.5
Year.....	26.290	26.775	25.785	47.6	64.9	72.9	44.8	58.8	103	- 4	40	39	76	43	.285	.268	11.15	2.17	4.4	4.3	3.0

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

ANISTON, ALA.

[$\phi=33^{\circ} 39' N.$; $\lambda=85^{\circ} 50' W.$]

Month.	Pressure.				Temperature.						Moisture.									
	Monthly mean.	Extremes.		s. a. m.	s. p. m.	Mean.		Extremes.		Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.				
		Maximum.	Minimum.			Maximum.	Minimum.	Monthly.	Maximum.		Minimum.	s. a. m.	s. p. m.	s. a. m.	s. p. m.	Total.	Maximum in 24 hours.	s. a. m.	s. p. m.	Daylight.
		In.	In.			In.	In.	In.	In.		In.	In.	%	%	In.	In.	In.	In.	In.	In.
January.....	29.405	29.900	28.705	38.7	44.6	54.5	33.4	44.0	72	16	32	76	80	0.195	3.62	1.31	6.0	3.9	6.5	
February.....	29.399	29.682	29.080	37.8	45.7	54.7	35.2	44.0	71	16	32	76	80	0.203	5.67	2.26	6.4	5.6	6.5	
March.....	29.357	29.570	29.171	50.9	62.1	73.4	47.5	60.4	86	25	43	76	76	0.297	1.09	.54	3.8	3.0	3.3	
April.....	29.214	29.473	28.993	54.4	62.4	72.2	47.7	60.0	85	30	46	74	74	0.331	3.21	1.55	6.0	6.3	6.3	
May.....	29.279	29.530	29.017	62.8	68.0	77.7	54.2	66.0	89	36	50	75	75	0.436	4.88	1.35	5.2	6.1	5.8	
June.....	29.212	29.374	29.017	69.8	74.5	83.5	63.5	73.4	91	50	64	81	81	0.594	6.72	1.88	6.2	7.0	6.8	
July.....	29.250	29.413	29.094	74.3	79.3	86.6	68.8	77.7	91	58	69	85	85	0.715	4.15	1.38	7.5	8.1	8.0	
August.....	29.252	29.394	29.205	73.0	76.6	87.9	67.5	77.7	92	61	68	84	84	0.685	3.19	.86	4.5	5.9	5.9	
September.....	29.319	29.470	29.196	69.9	74.4	87.2	64.4	75.8	93	50	64	82	82	0.609	3.15	1.48	3.5	3.9	4.9	
October.....	29.296	29.766	29.000	58.0	61.6	76.2	52.4	64.3	90	25	53	83	83	0.430	3.76	1.76	3.5	2.1	3.6	
November.....	29.280	29.513	29.000	42.0	49.2	60.5	37.0	48.8	76	26	36	80	80	0.230	1.34	.64	5.6	4.2	5.0	
December.....	29.395	29.604	28.975	34.6	40.6	50.0	29.7	39.8	69	18	29	79	79	0.168	3.61	1.92	5.8	5.5	6.3	
Year.....	29.305	29.900	28.705	55.5	61.3	72.0	49.9	61.0	93	16	49	80	80	0.408	44.39	2.26	5.3	5.1	5.7	

ASHEVILLE, N. C.

[$\phi=35^{\circ} 36' N.$; $\lambda=82^{\circ} 32' W.$]

January.....	27.741	28.228	27.052	30.2	38.5	46.9	26.0	36.4	67	11	27	30	87	72	0.155	0.178	2.42	0.95	5.8	4.6	5.3
February.....	27.799	28.009	27.283	30.2	39.0	46.2	25.6	35.9	60	11	26	31	85	74	0.154	0.188	2.39	0.67	5.5	4.4	5.0
March.....	27.757	28.010	27.448	42.4	37.3	53.8	40.0	52.9	82	21	39	43	88	60	0.247	0.288	1.72	.51	4.0	3.5	3.9
April.....	27.613	27.913	27.359	48.9	37.2	60.1	43.5	54.8	82	31	45	43	87	64	0.308	0.294	1.72	.59	5.0	5.0	5.7
May.....	27.714	28.000	27.381	54.1	62.3	69.8	48.0	58.8	85	34	51	50	88	65	0.374	0.365	1.77	1.77	4.5	4.7	4.8
June.....	27.679	27.884	27.387	62.2	67.5	76.5	57.4	67.0	86	44	58	60	86	78	0.490	0.525	5.44	1.97	4.6	6.3	6.0
July.....	27.715	27.896	27.462	66.0	72.1	80.9	63.0	72.0	86	53	63	66	92	80	0.586	0.633	4.65	.90	6.6	6.0	6.5
August.....	27.751	27.902	27.637	64.3	70.9	80.1	61.2	70.6	85	54	62	66	94	85	0.565	0.641	9.12	5.76	5.5	5.5	5.7
September.....	27.801	27.974	27.641	60.7	67.9	77.3	57.9	67.6	85	44	59	62	94	82	0.507	0.566	1.52	7.0	3.7	3.3	5.1
October.....	27.746	28.105	27.458	50.9	59.1	68.0	47.7	57.8	84	20	48	52	91	77	0.860	0.413	2.64	1.82	3.1	2.5	3.5
November.....	27.620	27.924	27.268	33.8	43.5	52.3	30.5	41.4	68	20	30	36	86	60	0.169	0.175	3.35	2.4	4.1	3.0	3.5
December.....	27.725	28.149	27.191	26.6	34.4	41.9	23.9	32.9	58	10	24	26	87	70	0.131	0.149	2.48	1.11	4.9	5.0	5.0
Year.....	27.718	28.228	27.052	47.5	55.8	64.3	43.7	54.0	86	10	44.2	46.6	83.8	72.2	0.337	0.368	38.10	5.76	4.8	4.6	5.0

ATLANTA, GA.

[$\phi=33^{\circ} 45' N.$; $\lambda=84^{\circ} 23' W.$]

January.....	28.927	29.408	28.215	37.2	45.2	51.0	33.7	42.4	67	18	30	35	75	68	0.176	0.212	3.49	0.92	5.3	4.3	6.4
February.....	28.928	29.189	28.506	36.2	45.0	51.2	32.9	42.0	68	16	30	33	78	66	0.184	0.207	4.13	1.14	5.7	4.4	5.4
March.....	28.887	29.122	28.664	52.8	64.9	70.8	50.4	60.6	85	28	41	42	65	47	0.271	0.286	2.03	1.56	3.1	3.3	3.8
April.....	28.753	29.002	28.527	54.0	63.7	69.3	50.8	60.0	84	32	44	44	71	52	0.302	0.297	3.15	2.84	5.0	4.2	5.8
May.....	28.823	29.081	28.509	61.6	69.3	75.5	57.9	66.7	85	46	52	53	73	59	0.401	0.412	6.59	1.80	5.5	5.1	6.0
June.....	28.784	28.933	28.517	67.8	74.3	81.0	64.7	72.7	89	58	61	62	80	69	0.550	0.569	6.29	1.17	6.5	5.7	6.8
July.....	28.804	28.951	28.570	72.4	76.8	84.4	68.9	76.6	92	62	67	68	84	74	0.674	0.680	8.25	1.44	6.7	7.9	6.6
August.....	28.813	28.955	28.721	71.8	78.6	85.7	68.2	77.0	91	64	66	66	83	67	0.642	0.641	2.49	1.12	3.8	5.5	4.8
September.....	28.872	29.010	28.701	69.3	75.9	84.1	66.2	75.2	92	55	62	62	79	65	0.576	0.577	7.73	.36	4.3	3.3	4.1
October.....	28.833	29.278	28.474	58.6	66.6	73.5	55.4	64.4	89	30	51	52	77	63	0.409	0.428	2.90	1.93	3.7	1.9	3.5
November.....	28.782	29.047	28.450	43.4	52.1	58.4	40.7	49.6	73	27	33	36	68	55	0.202	0.227	2.57	.20	3.8	3.4	4.7
December.....	28.899	29.310	28.291	34.4	42.2	47.4	31.8	39.6	66	19	27	31	75	66	0.157	0.188	2.79	1.28	5.8	4.0	5.3
Year.....	28.840	29.408	28.215	55.0	62.9	69.4	51.8	60.6	92	16	47	49	76	63	0.370	0.394	37.12	2.34	4.9	4.4	5.1

ATLANTIC CITY, N. J.

[$\phi=39^{\circ} 22' N.$; $\lambda=74^{\circ} 25' W.$]

January.....	30.069	30.727	29.074	31.3	34.7	40.5	27.3	33.9	49	12	27	28	82	76	0.152	0.162	4.64	1.10	6.1	5.8	6.8
February.....	30.090	30.680	29.415	29.9	33.5	40.0	26.6	33.3	55	3	24	26	77	74	0.188	0.154	2.74	1.49	5.9	3.5	5.3
March.....	30.047	30.449	29.438	41.1	43.1	49.5	37.2	43.4	72	26	35	36	79	77	0.210	0.216	1.27	.98	4.1	3.5	5.0
April.....	29.889	30.225	29.535	50.2	50.6	57.0	45.3	51.2	67	36	43	43	77	78	0.282	0.289	4.23	1.07	5.8	5.0	5.8
May.....	29.943	30.381	29.480	57.3	58.2	65.2	51.6	58.4	82	42	47	46	72	74	0.340	0.353	1.96	.40	5.4	7.3	5.9
June.....	29.889	30.228	29.504	65.2	64.5	71.9	60.2	66.0	87	49	56	58	80	81	0.512	0.497	5.81	1.70	5.8	6.2	6.3
July.....	29.873	30.124	29.328	73.1	73.5	80.9	67.8	74.4	92	57	66	66	80	79	0.651	0.633	1.35	.87	4.6	4.9	5.0
August.....	30.019	30.269	29.650	71.4	71.8	77.1	67.1	72.1	86	58	66	65	81	81	0.623	0.625	5.84	1.02	6.5	5.4	5.9
September.....	30.033	30.240	29.790	67.2	69.2	74.3	63.1	68.7	86	54	61	61	81	79	0.550	0.547	1.46	1.17	5.2	3.5	4.8
October.....	29.984	30.378	29.501	57.3	59.1	66.5	51.4	56.0	83	30	50	49	76	71	0.384	0.381	2.73	1.26	4.1	2.5	4.0
November.....	29.797	30.313	29.432	39.4	41.8	49.3	35.4	42.4	64	26	32	32	75	67	0.189	0.187	2.32	1.32	4.8	5.7	6.6
December.....	30.035	30.709	29.372	28.0	30.2	36.9	23.2	30.0	50	11	22	23	78	72	0.129	0.127	3.96	1.37	4.4	4.5	5.1
Year.....	29.972	30.727	29.074	51.0	52.5	59.1	46.4	52.7	92	3	44	45	78	76	0.347	0.340	34.33	1.70	5.2	4.8	5.5

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

ABILENE, TEX.

[H=1,738 ft.; h₁=10 ft.; h₂=3 ft.; h₃=52 ft.]

Month.	Wind.											Number of days.																		
	By self-register.					Number of winds, 8 a. m. and 8 p. m.						Partly cloudy.	Cloudy.	Precipitation.		Snow.		Maximum temperature 32° or 90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.									
	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.					0.01 inch and over.	0.04 inch and over.	T. or more.	0.01 inch or more, melted.	Hail.	Fog.			
																						0.01 inch and over.	0.04 inch and over.	0.01 inch or more, melted.	Hail.	Fog.				
January	11.1	S.	39	NW.	0	10	5	0	7	19	13	3	5	0	14	5	12	3	2	3	1	0	0	0	1	0	12	0	0	
February	12.6	S.	39	S.	0	13	4	3	2	20	20	3	2	0	11	7	16	3	2	2	0	0	0	1	0	0	15	0	0	
March	11.4	S.	34	S.	0	8	7	1	1	15	15	2	2	0	11	7	16	3	2	2	0	0	0	1	0	0	15	0	0	
April	11.8	S.	34	S.	0	10	7	1	1	15	15	2	2	0	11	7	16	3	2	2	0	0	0	1	0	0	15	0	0	
May	12.3	S.	36	NE.	0	8	12	7	10	15	15	9	0	0	10	10	16	4	4	0	0	0	0	0	0	0	0	4	0	0
June	12.0	S.	33	N.	1	4	2	3	11	27	10	9	1	2	10	10	16	4	4	0	0	0	0	0	0	0	0	6	0	0
July	9.7	S.	30	N.	0	4	2	2	3	14	28	7	2	2	18	12	12	4	4	0	0	0	0	0	0	0	0	8	0	0
August	9.3	S.	26	E.	0	3	5	7	15	23	6	6	2	2	11	11	12	3	3	0	0	0	0	0	0	0	0	2	0	0
September	9.0	S.	35	SE.	0	5	6	3	15	27	4	4	0	0	16	10	4	4	4	0	0	0	0	0	0	0	0	5	0	0
October	9.2	S.	34	N.	0	10	5	6	26	6	4	0	0	0	19	4	4	4	4	0	0	0	0	0	0	0	0	2	0	0
November	9.4	S.	32	SW.	0	16	4	4	4	18	11	8	0	0	17	10	6	3	3	0	0	0	0	0	0	0	0	0	0	0
December	9.1	S.	39	NW.	0	15	6	4	3	4	18	3	3	3	10	10	11	4	4	0	0	0	0	0	0	0	1	0	0	
Year	10.6	S.	42	S.	3	102	60	38	98	263	99	26	42	2	176	95	94	55	36	5	2	3	2	2	123	35	43	0	0	

ALBANY, N. Y.

[H=97 ft.; h₁=102 ft.; h₂=100 ft.; h₃=115 ft.]

January	8.6	S.	37	S.	0	11	9	1	7	13	6	4	8	0	8	7	16	16	15	18	12	0	5	15	0	30	0	0	0	
February	9.0	S.	31	S.	0	12	6	0	4	10	9	3	12	0	11	7	10	15	14	14	10	0	2	15	0	25	0	0	0	
March	8.4	S.	36	SE.	0	3	8	1	4	19	8	4	15	0	15	10	6	6	3	5	3	0	1	0	0	18	0	0	0	
April	9.2	NW.	34	S.	0	5	7	2	2	17	11	2	15	0	10	15	3	3	3	3	3	0	3	0	0	0	3	0	1	0
May	8.9	NW.	30	SE.	0	6	5	2	2	17	7	2	15	0	10	15	3	3	3	3	3	0	2	0	0	0	0	3	0	0
June	6.3	S.	26	S.	0	9	8	3	5	11	6	8	10	0	13	10	7	7	11	11	0	0	0	0	0	0	0	0	0	0
July	6.8	S.	28	NW.	0	4	5	1	7	17	8	7	13	0	9	20	2	2	9	9	0	0	0	2	0	4	0	0	0	0
August	7.9	S.	30	S.	0	5	5	4	8	27	3	6	4	0	10	17	4	6	5	0	0	1	1	0	0	0	0	0	0	0
September	6.9	S.	28	SE.	0	7	14	2	6	15	6	0	10	0	13	9	8	10	10	0	0	0	2	0	0	0	0	0	0	0
October	8.8	S.	31	S.	0	4	4	0	8	14	11	2	19	0	11	14	6	6	4	1	0	0	3	0	0	3	1	1	0	0
November	7.7	NW.	30	N.	0	7	4	0	6	10	3	3	27	0	3	6	21	14	11	19	9	0	1	0	0	16	0	0	0	0
December	8.9	NW.	32	NW.	0	7	9	1	2	17	7	1	18	0	9	9	13	6	6	14	4	0	0	17	0	30	0	0	0	
Year	8.1	S.	37	S.	0	80	84	16	74	176	85	46	169	0	119	142	104	127	98	74	39	3	20	47	5	123	35	1	0	

ALPENA, MICH.

[H=609 ft.; h₁=13 ft.; h₂=4 ft.; h₃=92 ft.]

January	11.9	SW.	56	SE.	3	7	2	2	3	10	14	10	14	0	3	9	19	11	7	20	11	0	0	23	0	31	0	0	0
February	12.4	NW.	42	E.	2	3	3	2	1	8	10	11	18	0	6	12	10	11	8	17	11	0	0	19	0	0	0	0	0
March	12.0	W.	40	NW.	1	4	1	0	11	7	11	16	12	0	13	6	12	8	8	3	3	0	0	0	0	0	28	3	4
April	11.8	SE.	37	SE.	0	17	7	3	19	3	3	3	5	0	7	15	12	15	11	6	3	0	7	0	0	0	0	0	0
May	10.9	NW.	38	NW.	0	8	4	3	10	6	3	6	22	0	9	9	13	11	8	1	4	0	0	0	0	0	6	1	4
June	8.2	NW.	34	NW.	0	4	3	6	10	8	1	9	19	0	16	8	6	9	4	0	0	0	0	0	0	0	0	0	0
July	10.1	NW.	38	NW.	0	3	6	2	9	6	3	9	24	0	17	9	5	9	7	0	0	0	0	0	0	0	0	0	0
August	9.3	NW.	35	W.	0	6	5	6	8	3	8	10	16	0	10	9	12	11	5	0	0	0	3	0	0	0	0	0	0
September	10.9	NW.	38	NW.	0	4	4	4	12	6	8	10	12	0	14	6	10	11	10	0	0	1	5	0	0	0	4	2	
October	11.4	NW.	47	SW.	1	5	6	1	5	9	10	9	17	0	10	10	11	13	11	3	1	0	1	0	0	3	2	1	
November	11.5	NW.	35	SE.	0	3	3	3	2	8	6	9	26	0	0	2	28	17	11	19	13	0	0	0	0	23	0	0	
December	11.0	NW.	38	S.	0	6	5	0	1	7	12	17	14	0	1	11	19	16	10	25	15	0	0	22	0	31	0	0	
Year	11.0	NW.	56	SE.	7	70	49	32	91	81	89	119	190	0	106	102	157	139	93	99	57	2	20	68	5	148	25	17	

AMARILLO, TEX.

[H=3,676 ft.; h₁=10 ft.; h₂=3 ft.; h₃=49 ft.]

January	11.4	SW.	39	N.	0	10	3	0	1	12	18	8	10	0	10	15	6	3	0	3	1	0	2	3	0	0	0	0	0
February	13.4	N.	36	NW.	0	9	6	2	5	10	11	7	6	0	15	9	4	1	1	4	1	0	0	2	0	0	27	0	
March	12.3	S.	44	S.	4	8	5	0	11	15	13	5	5	0	24	7	0	3	3	0	0	0	0	0	0	4	1	0	
April	13.3	NW.	44	NW.	1	10	2	3	7	9	10	4	15	0	22	5	3	4	3	2	2	0	0	0	0	2	3	0	
May	12.5	N.	37	S.	0	10	6	3	17	8	7	4	7	0	10	15	6	11	8	0	0	1	1	0	0	0	5	0	
June	13.4	S.	38	NW.	0	6	3	7	17	15	8	1	8	0	15	15	0	7	3	0	0	0	0	0	0	0	0	0	
July	11.2	S.	46	E.	1	6	4	7	22	20	3	1	0	0	15	16	0	8	6	0	0	0	0	0	0	0	0	0	
August	10.3	S.	34	S.	0	0	2	5	7	9	20	11	1	5	0	16	14	0	1	1	0	0	0	0	0	0	0	0	
September	12.1	S.	34	S.	0	0	2	5	7	9	20	11	1	5	0	16	14	0	1	1	0	0	0	0	0	0	0	0	
October	11.2	S.	36	N.	0	9	1	0	10	16	15	6	5	0	23	7	1	2	2	1	1								

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

ANNISTON, ALA.

[H=741 ft.; h₁=9 ft.; h₂=3 ft.; h₃=57 ft.]

Month.	Wind.														Number of days.																
	By self-register.				Number of winds, 8 a. m. and 8 p. m.										Precipitation.	Snow.	Maximum temp. 32° or 90° or above.	Minimum temperature 32° or below.	Thunderstorms.	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.	Trace or more.	0.01 inch or more melted.	Hail.	Fog.	32° or below.	90° or above.	Thunderstorms.	Auroras.
January.....	7.4	N.	29	SE.	0	13	0	2	12	10	11	3	9	2	9	4	18	7	6	1	1	0	2	1	0	16	1	0	0		
February.....	8.0	N.	35	SE.	0	17	0	1	15	11	3	2	5	1	7	7	14	9	8	0	0	0	0	0	0	15	1	2	0	0	
March.....	4.6	N.	22	N.	0	16	3	2	4	16	2	4	5	10	20	5	6	4	3	0	0	0	0	0	0	2	3	3	0	0	
April.....	6.5	N.	25	W.	0	17	1	0	5	16	8	1	11	1	7	8	15	10	5	1	0	1	0	0	0	1	3	0	0	0	
May.....	5.7	N.	31	W.	0	11	6	3	9	12	3	5	10	3	12	5	14	13	12	0	0	0	0	0	0	0	9	0	0	0	0
June.....	4.5	SE.	35	SW.	0	10	6	6	12	10	7	7	4	4	5	10	15	12	11	0	0	0	0	1	0	2	0	15	0	0	0
July.....	4.6	S.	27	W.	0	5	6	4	10	21	3	5	6	2	2	10	20	13	12	0	0	0	0	0	0	0	15	0	0	0	0
August.....	4.0	SE.	26	NW.	0	9	3	7	16	17	3	0	2	2	5	17	9	14	12	0	0	0	0	0	0	9	0	11	0	0	0
September.....	4.5	SE.	19	E.	0	8	6	5	15	14	3	1	1	1	7	10	14	6	8	0	0	0	1	1	0	10	0	10	0	0	0
October.....	5.2	N.	24	E.	0	2	1	1	13	9	4	0	4	4	20	5	6	6	6	0	0	0	0	0	0	0	3	2	0	0	0
November.....	5.4	N.	23	SW.	0	25	0	1	7	7	9	2	9	3	4	14	12	5	5	0	0	0	0	0	0	0	2	1	1	0	0
December.....	6.7	N.	33	SE.	0	19	1	0	1	9	6	1	14	3	10	5	16	9	9	1	0	0	0	0	0	0	2	1	1	0	0
Year.....	5.6	N.	38	SE.	0	166	41	40	125	153	54	27	78	46	120	94	151	110	90	5	1	2	4	1	30	67	73	0	0	0	0

ASHEVILLE, N. C.

[H=2,255 ft.; h₁=70 ft.; h₂=61 ft.; h₃=84 ft.]

January.....	9.2	NW.	31	NW.	0	10	0	0	13	3	3	2	28	3	13	7	11	6	5	7	2	0	0	2	0	23	0	0	0	0	0	
February.....	10.3	NW.	34	NW.	0	8	0	1	18	7	1	0	21	0	13	3	12	8	3	0	0	0	0	1	3	0	23	1	1	0	0	
March.....	6.8	SE.	34	NW.	0	14	0	1	18	9	1	3	13	3	13	12	6	5	3	0	0	0	0	0	0	4	0	0	0	0	0	
April.....	8.4	NW.	31	SE.	0	15	2	1	13	7	3	2	16	1	10	6	14	10	8	2	0	0	0	0	0	2	2	2	0	0	0	
May.....	7.6	NW.	26	N.	0	16	1	0	20	5	1	1	16	2	14	6	11	16	14	0	0	0	0	0	0	0	6	0	0	0	0	0
June.....	5.8	S.	27	NW.	0	16	3	3	21	3	4	1	5	1	5	16	9	15	10	0	0	0	0	0	0	0	13	0	0	0	0	0
July.....	5.5	SE.	33	NW.	0	9	0	4	9	10	3	1	14	1	2	18	11	22	16	0	0	1	6	0	0	0	17	0	0	0	0	0
August.....	5.8	SE.	32	E.	0	9	1	8	18	9	0	3	13	1	9	13	9	17	13	0	0	0	5	0	0	0	14	0	0	0	0	0
September.....	5.4	NW.	34	N.	0	13	1	8	12	9	2	4	7	4	5	22	3	12	7	0	0	0	13	0	0	0	10	0	0	0	0	0
October.....	7.9	NW.	30	NW.	0	16	0	4	19	4	0	0	19	0	19	7	5	7	5	2	2	0	5	0	0	4	0	0	0	0	0	0
November.....	9.9	NW.	31	NW.	0	16	0	1	5	4	1	2	30	1	17	8	5	8	2	2	0	0	1	1	0	23	0	0	0	0	0	0
December.....	11.7	NW.	37	NW.	0	11	1	0	12	9	1	1	27	0	12	11	8	9	7	8	3	0	1	4	0	26	1	0	0	0	0	0
Year.....	7.9	NW.	37	NW.	0	153	9	31	178	88	20	22	212	17	132	129	104	135	96	26	7	1	37	10	0	105	64	0	0	0	0	0

ATLANTA, GA.

[H=1,174 ft.; h₁=190 ft.; h₂=182 ft.; h₃=216 ft.]

January.....	14.4	W.	40	NW.	1	2	6	8	7	9	7	12	7	0	10	4	17	9	6	3	1	0	0	3	0	16	1	0	0	0	0		
February.....	13.6	SE.	48	W.	2	0	10	8	13	1	3	16	9	0	10	5	13	10	7	7	0	0	0	0	0	13	1	2	0	0	0		
March.....	10.5	W.	38	NW.	0	2	5	4	13	5	6	16	11	0	16	9	6	4	4	0	0	0	0	0	0	2	4	0	0	0	0	0	
April.....	12.7	W.	38	SW.	0	1	2	4	8	8	11	20	6	0	11	5	14	8	7	1	1	0	0	0	0	1	2	0	0	0	0	0	
May.....	11.6	NW.	60	NW.	1	2	5	6	11	4	8	12	14	0	12	9	10	10	10	0	0	1	0	0	0	0	7	0	0	0	0	0	
June.....	9.6	W.	40	NW.	1	2	8	10	9	1	4	18	8	0	10	10	10	11	10	0	0	0	0	0	0	0	8	0	0	0	0	0	0
July.....	9.1	W.	34	SW.	0	0	5	3	15	7	11	17	4	0	3	14	14	12	10	0	0	0	0	0	0	3	0	19	0	0	0	0	
August.....	8.3	NE.	36	NW.	0	5	17	8	12	2	4	3	10	1	13	10	8	8	7	0	0	0	0	0	0	4	0	9	0	0	0	0	0
September.....	8.2	NE.	25	W.	0	2	20	10	3	4	5	4	19	2	15	9	6	6	5	0	0	0	0	0	0	5	0	8	0	0	0	0	
October.....	11.6	NE.	44	W.	2	6	15	7	6	1	4	12	10	1	19	4	8	5	4	1	0	0	0	0	0	0	3	0	0	0	0	0	0
November.....	14.2	W.	38	NW.	0	0	4	1	3	5	9	33	4	0	15	2	13	5	4	0	0	0	0	0	0	4	1	0	0	0	0	0	0
December.....	14.3	W.	47	W.	2	1	4	6	8	5	7	24	7	0	12	6	13	10	7	1	0	0	2	0	0	17	0	0	0	0	0	0	0
Year.....	11.5	W.	60	NW.	9	23	101	75	108	52	79	187	100	5	146	87	132	98	81	7	2	1	11	1	12	56	61	0	0	0	0	0	0

ATLANTIC CITY, N. J.

[H=52 ft.; h₁=37 ft.; h₂=33 ft.; h₃=48 ft.]

January.....	9.6	NW.	36	SE.	0	7	4	4	3	8	11	12	13	0	7	7	17	17	12	8	5	0	2	2	0	21	0	0	0	0	0	0		
February.....	10.3	NW.	33	SW.	0	5	4	2	2	6	15	3	14	0	10	8	10	11	9	3	2	1	0	0	0	20	0	0	0	0	0	0	0	
March.....	7.9	SW.	32	NE.	0	7	10	3	4	10	15	3	10	0	11	10	10	4	4	0	0	0	0	0	0	8	0	0	0	0	0	0	0	
April.....	9.4	SW.	29	SE.	0	4	5	3	6	14	16	6	6	0	10	9	11	12	11	0	0	0	0	0	0	0	3	0	0	0	0	0	0	
May.....	8.3	SW.	24	S.	0	6	6	2	3	8	16	9	12	0	10	9	12	14	11	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
June.....	7.4	SW.	28	S.	0	3	8	0	4	10	21	8	6	0	7	11	12	15	12	0	0	1	4	0	0	0	5	0	0	0	0	0	0	0
July.....																																		

MONTHLY AND ANNUAL SUMMARIES, 1910.

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ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

AUGUSTA, GA.

[$\phi=33^{\circ} 28' N.$; $\lambda=81^{\circ} 54' W.$]

Month.	Pressure.			Temperature.							Moisture.										
	Extremes.		Monthly mean.	Mean.			Extremes.		Dew point.	Relative humidity.		Vapor pressure.	Precipitation.	Cloudiness.							
	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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
January.....	29.994	29.201	29.291	38.9	48.7	57.6	35.3	46.4	75	22	34	36	88	62	0.208	0.224	3.23	1.37	4.8	5.3	5.2
February.....	29.996	29.321	29.582	38.5	49.8	56.4	36.2	46.3	74	22	32	36	77	61	0.200	0.235	5.21	2.43	5.7	5.6	5.8
March.....	29.917	29.181	29.664	51.3	65.5	72.9	49.0	61.0	86	30	47	46	86	52	0.333	0.328	0.69	1.50	3.5	3.6	4.1
April.....	29.780	30.042	29.534	56.4	67.4	75.3	51.4	63.4	89	36	48	45	76	48	0.354	0.318	1.51	1.02	4.6	3.5	4.3
May.....	29.846	30.162	29.463	66.1	73.1	80.7	60.6	70.6	89	50	56	53	70	53	0.464	0.426	2.23	1.09	5.5	5.2	5.0
June.....	29.781	29.987	29.535	71.6	76.8	84.6	67.5	76.0	93	56	64	65	80	70	0.622	0.630	6.02	1.77	6.1	6.7	5.8
July.....	29.811	30.043	29.561	75.7	78.4	87.5	71.3	79.4	95	62	70	70	84	77	0.739	0.738	4.71	1.27	6.4	7.4	6.4
August.....	29.818	29.988	29.695	74.8	79.6	88.1	71.5	79.8	93	65	70	69	87	72	0.748	0.717	6.04	2.46	6.4	4.8	5.2
September.....	29.881	30.034	29.698	70.6	76.7	86.0	67.2	76.6	96	54	60	66	86	71	0.659	0.660	1.99	1.35	3.5	3.4	4.0
October.....	29.851	30.376	29.391	59.4	67.4	77.5	56.5	67.0	89	29	36	38	88	74	0.480	0.521	4.23	3.53	2.6	2.2	2.8
November.....	29.806	30.132	29.493	43.5	54.5	64.0	39.9	52.0	76	31	38	41	81	62	0.237	0.271	1.35	0.58	3.3	2.9	3.5
December.....	29.973	30.410	29.404	36.0	45.3	53.5	33.2	43.4	72	20	31	36	82	69	0.184	0.220	1.64	0.52	4.2	3.3	4.1
Year.....	29.871	30.542	29.201	56.9	65.3	73.7	53.3	63.5	90	20	51	52	82	64	4.435	4.41	38.87	3.53	4.7	4.5	4.7

BALTIMORE, MD.

[$\phi=39^{\circ} 17' N.$; $\lambda=76^{\circ} 37' W.$]

January.....	29.998	30.645	29.129	31.0	35.2	40.2	27.7	34.0	58	13	24	27	73	70	0.132	0.151	4.68	1.07	6.8	6.1	6.5
February.....	30.028	30.596	29.457	30.4	35.7	42.2	27.5	34.8	67	8	22	24	68	63	0.128	0.147	2.28	0.71	5.4	4.4	4.4
March.....	29.938	30.333	29.410	43.6	52.0	58.7	40.9	49.8	93	28	34	38	71	60	0.212	0.242	0.46	0.21	4.6	3.8	4.5
April.....	29.798	30.166	29.485	53.0	59.3	67.2	49.2	58.2	92	40	42	43	68	59	0.279	0.298	7.76	3.69	5.7	5.7	5.4
May.....	29.872	30.306	29.452	59.3	63.2	70.4	54.1	62.2	85	44	48	49	68	62	0.356	0.370	2.95	1.67	5.0	5.6	5.3
June.....	29.810	30.112	29.452	67.2	72.0	78.0	62.9	70.4	95	48	58	60	74	67	0.502	0.527	5.30	1.93	5.0	5.7	5.2
July.....	29.795	30.055	29.533	75.8	80.3	87.3	73.5	78.9	95	61	64	64	67	60	0.596	0.621	0.95	0.57	3.6	4.0	3.8
August.....	29.927	30.172	29.556	71.3	75.9	81.6	67.1	74.4	90	57	63	63	76	66	0.586	0.583	1.37	0.49	5.9	5.6	6.1
September.....	29.956	30.177	29.676	67.6	72.0	79.7	63.5	71.6	96	53	59	60	74	66	0.516	0.528	2.13	1.58	4.3	3.3	4.1
October.....	29.921	30.350	29.555	53.7	61.2	70.0	51.7	60.8	90	32	47	49	73	64	0.345	0.367	2.71	0.85	3.9	2.0	3.4
November.....	29.769	30.223	29.472	39.9	42.4	48.7	36.4	42.6	64	28	30	31	68	63	0.170	0.173	1.93	1.05	5.3	5.2	5.9
December.....	29.900	30.642	29.335	28.2	32.4	37.4	24.9	31.2	58	12	22	24	76	69	0.119	0.127	2.45	1.05	4.8	3.5	5.5
Year.....	29.902	30.645	29.129	51.9	56.8	63.4	48.0	55.7	96	8	43	44	71	64	3.328	3.44	34.97	3.69	5.0	4.6	5.0

BENTONVILLE, ARK.

[$\phi=36^{\circ} 22' N.$; $\lambda=94^{\circ} 12' W.$]

January.....	28.745	29.176	28.400	30.8	47.1	27.7	37.4	70	7	24	.....	74	.....	0.135	.....	1.34	0.55	4.5	.....	4.8
February.....	28.751	29.061	28.331	26.6	44.2	21.5	32.8	64	-10	20	.....	77	.....	0.118	.....	2.59	1.29	5.5	.....	5.2
March.....	28.713	28.855	28.479	48.3	71.2	46.0	58.6	86	29	38	.....	71	.....	0.240	.....	1.86	1.67	3.3	.....	3.3
April.....	28.572	28.901	28.358	49.0	66.9	45.7	56.3	84	30	41	.....	75	.....	0.276	.....	2.56	0.81	5.2	.....	5.3
May.....	28.630	28.922	28.373	56.5	72.1	52.0	62.0	86	39	50	.....	81	.....	0.374	.....	6.52	2.33	6.2	.....	5.7
June.....	28.695	28.873	28.325	66.2	81.5	60.9	71.2	91	51	61	.....	84	.....	0.546	.....	4.21	1.41	4.2	.....	4.1
July.....	28.594	28.812	28.484	70.8	86.3	66.7	76.5	96	56	66	.....	84	.....	0.636	.....	7.54	3.88	4.9	.....	3.7
August.....	28.633	28.861	28.496	69.8	87.0	66.9	77.0	97	50	66	.....	88	.....	0.653	.....	3.92	2.84	5.0	.....	3.2
September.....	28.689	28.930	28.420	65.6	84.5	63.2	73.8	91	55	61	.....	86	.....	0.545	.....	5.05	4.59	4.2	.....	3.5
October.....	28.688	29.073	28.477	49.6	71.7	47.1	59.4	89	23	46	.....	85	.....	0.326	.....	2.42	0.68	2.5	.....	2.6
November.....	28.663	29.014	28.310	40.1	60.6	35.1	47.8	78	22	32	.....	72	.....	0.194	.....	0.19	0.16	3.9	.....	2.8
December.....	28.756	29.213	28.383	29.6	47.2	26.5	36.8	62	15	23	.....	77	.....	0.128	.....	0.89	0.34	4.5	.....	4.1
Year.....	28.669	29.213	28.310	50.2	68.4	46.6	57.5	97	-10	44	.....	80	.....	3.398	.....	39.09	4.59	4.5	.....	4.0

BINGHAMTON, N. Y.

[$\phi=42^{\circ} 8' N.$; $\lambda=75^{\circ} 55' W.$]

January.....	29.136	29.704	28.331	21.3	33.0	15.4	24.2	50	-7	19	.....	90	.....	0.111	.....	5.12	1.43	7.9	.....	7.7
February.....	29.142	29.626	28.659	19.6	31.7	13.6	22.6	54	-8	17	.....	88	.....	0.107	.....	2.57	0.88	6.4	.....	6.8
March.....	29.124	29.496	28.997	34.9	53.1	30.0	41.6	79	16	28	.....	77	.....	0.161	.....	0.68	0.44	5.4	.....	4.7
April.....	28.992	29.559	28.707	44.9	60.1	38.7	49.4	81	24	37	.....	74	.....	0.230	.....	2.69	0.66	6.3	.....	6.1
May.....	29.048	29.559	28.602	51.6	64.9	44.5	54.7	80	32	43	.....	73	.....	0.272	.....	4.12	2.24	6.4	.....	6.1
June.....	29.048	29.506	28.532	59.4	73.3	52.9	63.1	87	36	53	.....	80	.....	0.415	.....	2.27	0.64	5.2	.....	5.5
July.....	29.007	29.280	28.802	65.8	81.5	58.7	70.1	91	47	58	.....	77	.....	0.491	.....	2.08	0.64	5.3	.....	4.4
August.....	29.137	29.411	28.900	61.6	76.6	55.8	66.2	88	40	55	.....	81	.....	0.447	.....	1.10	0.46	4.3	.....	5.2
September.....	29.170	28.425	28.992	58.0	70.1	52.4	61.2	83	38	54	.....	88	.....	0.433	.....	4.56	1.03	6.0	.....	5.7
October.....	29.071	29.495	28.590	47.4	59.2	41.4	50.3	82	23	42	.....	81	.....	0.279	.....	1.46	0.78	6.0	.....	5.6
November.....	28.888	29.370	28.532	33.3	38.6	29.8	34.2	57	19	30	.....	87	.....	0.164	.....	4.02	2.21	9.2	.....	9.1
December.....	29.064	29.728	28.426	20.1	28.7	13.3	21.1	48	-6	18	.....	90	.....	0.101	.....	1.91	0.95	8.7	.....	7.9
Year.....	29.068	29.728	28.331	43.2	55.9	37.2	46.6	91	-8	38	.....	82	.....	2.299	.....	31.98	2.24	6.4	.....	6.2

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

BIRMINGHAM, ALA.

[$\phi=33^{\circ} 32' N.$; $\lambda=86^{\circ} 50' W.$]

Month.	Pressure.			Temperature.							Moisture.										
	Extremes.		Monthly mean.	Mean.			Extremes.		Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.						
	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.	In.	In.	8 a. m.	8 p. m.	Daylight.
January.....	29.426	29.899	29.790	39.3	48.1	54.8	36.5	45.6	69	15	32	36	74	63	0.194	0.229	3.75	1.56	6.0	3.7	5.7
February.....	29.417	29.717	29.022	38.4	46.8	53.9	34.9	44.4	68	18	32	33	78	60	0.205	0.206	4.17	1.54	6.0	4.7	6.3
March.....	29.378	29.578	29.163	53.6	66.8	73.9	51.8	62.8	86	30	44	42	72	42	0.312	0.278	5.55	4.45	3.8	3.5	4.7
April.....	29.239	29.498	29.019	54.0	65.3	72.3	50.6	61.4	83	33	49	48	83	57	0.362	0.362	2.53	1.31	4.9	5.3	6.4
May.....	29.294	29.540	29.017	65.0	70.7	77.8	58.4	68.1	87	44	56	55	79	60	0.461	0.446	4.65	1.78	5.0	5.5	5.7
June.....	29.226	29.399	28.971	89.5	77.0	83.4	65.7	74.6	90	54	64	82	68	595	610	7.14	1.75	6.3	5.6	6.9	
July.....	29.266	29.429	29.096	72.9	76.5	85.5	69.5	77.5	90	63	69	69	88	79	0.717	0.711	10.48	2.56	6.2	6.5	7.2
August.....	29.270	29.407	29.179	72.8	79.2	88.2	70.1	79.2	92	66	68	68	86	70	0.687	0.694	4.60	1.90	3.9	5.1	5.8
September.....	29.328	29.453	29.177	69.5	77.0	87.8	67.0	77.4	94	56	64	65	85	68	0.613	0.620	3.04	2.03	2.5	3.9	5.2
October.....	29.313	29.789	29.020	58.9	67.0	76.6	55.5	66.0	91	27	53	52	82	61	0.447	0.431	2.42	1.71	3.1	3.0	4.6
November.....	29.306	29.516	28.972	44.1	52.5	60.7	41.3	51.0	75	28	37	39	78	59	0.240	0.249	1.46	0.78	4.7	3.2	4.9
December.....	29.419	29.816	28.741	37.1	43.1	50.8	33.5	42.2	69	22	30	32	77	66	0.185	0.194	2.55	1.04	5.4	5.5	6.8
Year.....	29.324	29.899	28.741	56.1	64.2	72.1	52.9	62.5	94	15	49	50	80	63	0.418	0.419	47.66	2.56	4.8	4.6	5.8

BISMARCK, N. DAK.

[$\phi=46^{\circ} 47' N.$; $\lambda=100^{\circ} 38' W.$]

January.....	28.258	28.831	27.700	4.9	12.7	21.1	-2.2	9.4	45	-24	2	10	89	86	0.053	0.075	0.57	0.27	5.4	3.8	5.5
February.....	28.342	28.719	27.599	-1.4	7.6	14.8	-6.7	4.0	43	-37	-3	5	92	89	0.043	0.058	.57	.50	5.0	4.8	5.0
March.....	28.193	28.662	27.494	32.1	48.8	57.1	29.4	43.2	81	8	27	34	82	58	0.149	0.195	.54	.50	3.2	3.2	3.6
April.....	28.159	28.672	27.544	37.8	60.2	65.7	34.5	50.1	90	20	30	34	73	40	0.172	0.204	.59	.52	3.9	3.6	3.8
May.....	28.265	28.696	27.750	45.5	60.2	65.9	38.7	52.3	84	23	35	39	73	49	0.210	0.245	.71	.71	4.4	5.1	5.0
June.....	28.174	28.426	27.883	59.8	76.7	82.4	55.5	68.9	103	35	51	52	74	45	0.389	0.411	2.95	1.43	4.3	4.3	4.1
July.....	28.230	27.861	27.581	60.8	80.6	86.6	57.0	71.6	107	46	54	56	78	44	0.415	0.458	1.29	.39	3.9	3.2	3.1
August.....	28.230	27.905	27.548	54.8	71.8	78.2	51.4	64.8	98	38	48	52	80	50	0.347	0.392	1.03	.64	3.0	4.2	4.8
September.....	28.280	28.733	27.518	47.1	60.8	68.9	43.7	56.3	88	31	43	49	88	64	0.290	0.344	2.66	1.58	4.5	4.6	5.4
October.....	28.188	28.638	27.596	37.8	53.8	64.5	35.4	50.0	91	17	32	36	82	52	0.190	0.225	.75	.74	4.7	4.3	4.9
November.....	28.270	28.835	27.750	21.1	27.5	35.1	18.1	26.6	63	-1	18	20	88	72	0.098	0.108	.14	.12	6.4	6.1	6.7
December.....	28.271	28.734	27.790	12.5	18.3	26.9	5.4	16.2	51	-17	10	14	88	83	0.067	0.088	.31	.16	5.4	4.3	5.5
Year.....	28.234	28.835	27.494	34.2	48.3	55.6	30.0	42.8	107	-37	29	33	82	61	0.202	0.234	11.86	1.58	4.7	4.3	4.8

BLOCK ISLAND, R. I.

[$\phi=41^{\circ} 10' N.$; $\lambda=71^{\circ} 36' W.$]

January.....	30.057	30.747	29.188	31.5	33.9	38.6	28.9	33.8	48	4	27	28	82	80	0.154	0.163	4.86	1.61	5.5	5.1	6.1
February.....	30.051	30.733	29.448	29.3	31.0	36.6	25.2	30.9	52	-1	25	27	84	83	0.147	0.153	4.22	1.38	5.5	4.8	5.7
March.....	30.040	30.516	29.457	37.7	38.6	44.0	34.0	39.0	68	21	32	34	81	85	0.189	0.202	1.58	.97	4.1	3.4	4.4
April.....	29.921	30.299	29.549	45.8	46.6	52.9	41.8	47.4	63	34	43	43	89	88	0.277	0.282	1.24	.52	3.7	4.1	4.9
May.....	29.896	30.371	29.436	52.6	52.6	58.1	49.2	53.6	66	41	48	48	84	85	0.335	0.337	3.36	1.05	5.4	3.9	6.2
June.....	29.888	30.218	29.478	60.7	61.0	67.2	56.9	62.0	79	48	55	56	84	85	0.449	0.458	2.82	1.01	4.8	4.4	5.6
July.....	29.869	30.152	29.609	69.4	68.8	77.4	64.5	71.0	85	59	64	65	83	87	0.505	0.515	1.73	.67	4.3	3.5	3.9
August.....	30.049	30.327	29.641	67.8	67.3	72.9	63.4	68.2	90	57	62	63	84	87	0.573	0.587	2.34	1.43	4.8	5.4	4.5
September.....	30.056	30.311	29.804	62.9	63.5	68.1	59.0	63.6	76	50	58	58	82	82	0.487	0.487	1.21	.42	5.3	3.2	4.6
October.....	29.959	30.415	29.428	55.3	56.5	61.6	51.0	56.3	73	38	46	49	76	78	0.353	0.371	2.37	1.17	4.8	2.4	4.2
November.....	29.729	30.330	29.398	42.0	42.9	46.8	39.1	43.0	60	27	34	35	73	73	0.205	0.212	5.58	3.77	6.5	4.7	6.4
December.....	29.973	30.708	29.321	28.4	30.8	35.2	24.3	29.8	50	8	22	25	76	78	0.128	0.140	2.50	.99	5.5	5.9	6.4
Year.....	29.961	30.747	29.188	48.6	49.5	55.0	44.8	49.9	85	-1	43	44	82	83	0.324	0.334	33.81	3.77	5.0	4.2	5.2

BOISE, IDAHO.

[$\phi=43^{\circ} 37' N.$; $\lambda=116^{\circ} 8' W.$]

January.....	27.298	27.676	26.629	21.3	27.3	31.8	16.6	24.2	51	-8	17	20	84	75	0.099	0.110	1.55	0.58	7.8	7.7	8.2
February.....	27.280	27.714	26.684	25.7	33.1	36.6	22.0	29.3	54	8	21	24	81	68	0.113	0.130	2.00	.38	7.1	8.2	7.2
March.....	27.232	27.601	26.817	40.6	57.3	60.3	37.8	49.0	74	30	34	34	76	43	0.194	0.197	.83	.29	4.4	5.7	4.8
April.....	27.192	27.497	26.799	47.2	65.4	68.4	43.4	55.9	91	29	33	29	62	31	0.194	0.198	1.10	.59	4.7	5.1	4.8
May.....	27.191	27.459	26.836	49.1	71.0	72.9	46.9	59.8	96	37	38	37	67	32	0.231	0.227	1.14	.71	3.3	3.4	3.2
June.....	27.079	27.337	26.806	53.0	78.8	81.3	50.6	66.0	100	38	35	33	59	21	0.299	0.292	1.30	.26	2.3	2.6	2.4
July.....	27.085	27.263	26.827	62.5	89.4	91.1	60.9	76.0	103	50	42	38	40	18	0.277	0.235	T.	T.	3.0	2.7	2.4
August.....	27.158	27.382	26.906	55.2	83.7	85.1	52.6	68.8	99	43	32	27	42	13	0.179	0.150	0	0	1.4	2.2	4
September.....	27.150	27.313	26.881	51.6	72.7	74.8	48.8	61.8	92	36	28	36	60	30	0.238	0.239	.50	.35	3.6	3.9	3.1
October.....	27.200	27.642	26.661	44.4	61.7	66.3	40.7	53.5	88	31	33	36	66	42	0.192	0.216	.99	.43	2.1	3.7	3.7
November.....	27.235	27.461	26.905	39.3	45.6	49.9	34.2	42.0	73	20	31	33	74	64	0.180	0.189	2.63	.50	7.3	8.1	7.9
December.....	27.352	27.665	26.925	32.0	36.7	39.9	29.6	34.8	50	22	29	30	86	76	0.137	0.166	1.13	.69	6.0	6.6	7.5
Year.....	27.208	27.714	26.629	43.5	60.2	63.2	40.3	51.8	103	-8	32	31	67	43	0.190	0.184	12.07	.71	4.4	4.8	4.6

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

AUGUSTA, GA.

[H=180 ft.; h₁=89 ft.; h₂=54 ft.; h₃=97 ft.]

Month.	Wind.										Number of days.																			
	By self-register.					Number of winds, 8 a. m. and 8 p. m.					Precipitation.	Snow.	Maxi- mum temp.	32° or below.	90° or above.	Minimum temperature 32° or below.	Elec- tricity.													
	Average hourly ve- locity.	Prevailing direc- tion.	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.	T. or more.	0.01 inch or more, melted.	Hail.	Fog.
January	7.3	W.	36	NW.	0	3	6	3	7	7	11	13	0	11	8	12	9	8	1	0	0	0	2	0	0	11	0	0	0	
February	7.5	NW.	42	W.	0	5	10	5	14	4	2	9	11	4	0	16	5	3	0	0	0	1	2	0	0	0	0	0	0	
March	5.2	SE.	23	W.	0	8	6	3	14	8	15	10	11	4	16	5	10	7	3	0	0	0	0	0	0	0	0	0	0	
April	6.7	SW.	33	W.	0	2	4	0	8	10	15	9	10	2	13	10	7	7	3	0	0	0	0	0	0	0	0	0	0	
May	6.5	SE.	40	NW.	1	2	10	4	10	10	11	7	5	3	11	13	7	7	0	0	0	0	0	0	0	0	0	0	0	
June	16.0	SE.	62	W.	1	1	7	7	13	9	6	5	3	3	7	11	12	18	16	0	0	0	0	0	0	0	0	0	0	
July	5.5	SE.	35	SE.	0	3	4	2	8	16	7	6	6	0	2	18	11	17	16	0	0	0	2	0	11	0	0	0		
August	5.6	NE.	33	NE.	0	9	16	13	8	3	5	4	2	2	10	14	7	8	0	0	0	1	0	0	9	0	0	0	0	
September	4.8	NE.	29	SE.	0	5	19	6	4	8	6	6	1	11	0	16	9	5	4	0	0	0	0	0	7	0	0	0	0	
October	6.2	NW.	31	NE.	0	5	12	6	4	5	1	4	16	9	22	6	3	5	4	0	0	0	3	0	0	0	0	0	0	
November	6.2	W.	28	W.	0	3	2	1	5	6	5	5	13	18	7	15	10	5	7	4	0	0	1	0	0	0	0	0	0	
December	6.8	W.	30	W.	0	3	6	4	2	7	6	14	15	5	14	11	6	7	6	0	0	0	0	0	0	0	16	0	0	
Year	6.2	NW.	62	W.	3	49	102	54	93	89	87	90	131	35	146	120	99	109	92	1	0	2	18	0	31	39	51	0	0	

BALTIMORE, MD.

[H=123 ft.; h₁=100 ft.; h₂=90 ft.; h₃=113 ft.]

January	7.1	NW.	29	SW.	0	10	6	5	7	8	9	3	14	0	8	6	17	12	9	6	0	1	3	0	22	0	0	0	0	
February	8.4	SW.	29	NW.	0	8	6	3	1	10	12	2	14	0	13	7	8	9	9	2	1	0	1	6	0	20	0	1	0	
March	6.3	NE.	28	NW.	0	11	11	7	4	12	3	5	8	1	12	11	8	5	4	3	1	0	3	0	0	5	1	1	0	
April	7.3	S.	27	NE.	0	3	5	4	2	14	10	6	15	1	11	9	10	12	12	0	0	0	1	0	0	0	0	0	0	0
May	7.6	NW.	31	SW.	0	6	6	7	2	10	6	6	15	1	7	16	8	16	9	0	0	0	0	0	0	0	0	0	0	
June	6.6	SW.	29	NW.	0	11	6	2	8	9	12	2	10	0	11	9	10	14	10	0	0	0	0	0	0	0	0	0	0	
July	6.2	S.	24	NW.	0	4	10	1	3	18	14	2	8	2	14	12	5	7	6	0	0	0	0	0	13	0	0	0	0	
August	6.7	S.	22	S.	0	12	14	7	7	13	6	1	2	2	6	12	13	11	9	0	0	0	0	0	0	0	0	0	0	
September	6.5	N.	21	SE.	0	15	9	8	2	11	10	1	2	2	14	10	6	4	4	0	0	0	0	0	2	0	0	3	0	
October	7.3	SW.	25	SW.	0	10	7	4	2	10	14	3	12	0	19	7	5	10	8	0	0	0	0	0	0	1	0	0	0	
November	8.4	NW.	35	NW.	0	8	1	0	7	1	20	4	19	0	7	14	9	8	8	3	2	0	0	0	0	0	4	0	0	
December	7.1	SW.	33	NW.	0	8	3	3	7	6	17	5	13	0	11	5	15	7	7	11	3	0	1	7	0	29	0	0	0	
Year	7.1	SW.	35	NW.	0	106	82	50	59	124	141	30	126	6	133	118	114	115	98	28	13	0	8	16	20	81	23	0	0	

BENTONVILLE, ARK.

[H=1,303 ft.; h₁=11 ft.; h₂=3 ft.; h₃=44 ft.]

January	7.2	NW.	26	SW.	0	5	0	1	4	7	4	5	5	0	10	4	11	7	5	2	2	0	0	3	0	22	0	0	0
February	8.0	S.	27	S.	0	4	5	2	5	5	2	1	2	0	14	2	12	7	7	4	4	5	0	5	0	24	3	3	0
March	7.1	S.	32	S.	0	1	5	1	2	12	9	1	0	0	20	6	5	2	2	0	0	0	0	0	0	0	4	4	0
April	6.8	S.	27	NE.	0	0	0	1	5	8	1	9	0	0	12	6	12	11	9	2	2	0	0	0	0	0	1	5	0
May	6.2	S.	32	SE.	0	7	0	1	3	6	7	2	2	0	13	6	12	14	12	0	0	0	0	0	0	0	0	0	0
June	4.2	S.	18	SE.	0	2	6	7	5	0	1	0	0	0	16	11	3	12	9	0	0	0	0	0	0	0	0	0	0
July	4.3	S.	18	S.	0	4	6	2	4	12	1	2	0	0	19	7	5	9	7	0	0	0	0	0	0	0	0	0	0
August	4.0	S.	20	NW.	0	1	5	5	8	9	2	1	0	0	19	11	1	4	3	0	0	0	0	0	0	0	0	0	0
September	4.9	S.	22	S.	0	2	4	6	4	13	1	0	0	0	19	5	6	6	4	0	0	0	0	0	0	7	0	10	0
October	5.3	S.	21	S.	0	5	2	5	5	8	4	1	1	0	23	4	4	7	6	0	0	1	1	0	0	2	4	0	0
November	6.0	S.	24	S.	0	2	3	4	2	8	4	1	6	0	22	6	2	2	2	1	0	0	0	0	0	0	14	0	0
December	5.9	S.	25	S.	0	3	3	3	2	7	4	2	7	0	18	5	8	6	5	2	2	0	0	1	0	25	0	0	0
Year	5.8	S.	32	NE.	0	36	40	40	56	103	34	25	31	0	211	73	81	90	70	10	10	7	1	9	27	92	74	0	0

BINGHAMTON, N. Y.

[H=871 ft.; h₁=78 ft.; h₂=71 ft.; h₃=88 ft.]

January	6.6	W.	35	S.	0	2	6	2	5	1	1	7	3	1	6	3	22	17	11	16	14	0	0	13	0	30	0	0	0
February	7.0	W.	28	SW.	0	5	4	5	1	1	2	8	5	0	7	5	16	14	12	13	11	0	0	0	0	14	0	25	0
March	5.9	W.	26	W.	0	4	6	4	4	0	2	4	8	2	15	4	12	5	4	6	2	0	2	1	0	20	2	0	0
April	7.2	SE.	26	S.	0	4	5	4	5	3	3	2	4	0	9	4	17	14	11	3	1	0	0	0	0	9	0	0	0
May	6.2	W.	30	SW.	0	6	3	3	1	1	3	2	9	7	0	10	4	17	16	12	0	0	0	0	0	0	5	0	0
June	4.7	W.	24	SE.	0	6	6	4	1	1	1	11	0	0	10	9	11	12	9	0	0	1	2	0	0	0	3	0	0
July	4.7	E.	24	SW.	0	3	4	8	0	0	0	1	9	5	1	10	17	4	11	9	0	0	0	1	0	1	0	6	0
August	5.2	E.	25	SW.	0	1	10	4	2	3	3	7	7	0	11	9	11	5	5	0	0	0	0	0	0	0	2	0	0
September	4.1	NE.	24	SW.	0	3	4	3	0	1	4	1	7	6	2	11	7	12	11	11	0	0	0	0	0	0	0	5	0
October	6.2	NW.	31	W.	0	3	2	3	5	1	2	2	6	0	13	5	13	7	6	1	0	0	2	0	0	4	1		

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

BIRMINGHAM, ALA.

[H=700 ft.; h₁=11 ft.; h₂=3 ft.; h₃=48 ft.]

Month.	Wind.											Number of days.															
	By self-register.					North of winds, 8 a. m. and 8 p. m.						Precipitation.	Snow.	T. or more.	Fog.	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.	0.01 inch or more, melted.	Hall.	Fog.	32° or below.	30° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
												Miles.	Mi.	North.	Northeast.	East.	Southeast.	South.									
January	8.8	NW.	36	SE.	0	8	5	2	9	15	5	4	14	0	9	9	13	7	6	0	1	2	1	0	12	1	0
February	9.4	SE.	34	N.	0	9	3	5	11	10	1	12	0	0	9	9	14	10	2	0	0	0	0	0	15	1	0
March	5.6	N.	24	SE.	0	12	6	6	7	8	13	4	4	0	11	11	11	3	3	0	0	0	0	0	3	0	0
April	7.7	NW.	31	NW.	0	6	4	4	0	3	14	12	2	0	2	9	10	15	5	1	1	1	0	0	0	0	0
May	6.7	NW.	32	S.	0	14	4	7	6	9	9	1	10	0	2	9	15	14	10	0	0	0	0	0	0	0	0
June	5.2	S.	28	SW.	0	9	11	3	9	9	3	3	7	0	4	1	12	14	10	0	0	0	0	0	0	15	0
July	5.3	E.	20	SW.	0	3	10	19	10	15	20	3	6	0	1	1	15	15	17	0	0	0	0	0	0	0	0
August	4.7	E.	28	E.	0	7	8	8	18	8	9	8	1	1	1	1	5	5	9	0	0	0	0	0	0	0	0
September	5.2	E.	21	N.	0	7	7	8	18	8	9	1	1	1	1	5	5	5	4	0	0	0	0	0	0	0	0
October	6.5	N.	26	SE.	0	15	11	5	12	5	2	0	9	1	14	9	8	5	5	0	0	0	0	0	2	3	4
November	8.2	NW.	25	SE.	0	17	2	0	0	7	13	1	18	0	12	9	9	6	6	0	0	0	0	0	0	4	1
December	6.1	NW.	38	SE.	0	9	4	3	8	9	8	5	16	0	4	12	15	7	1	1	0	0	0	0	16	1	0
Year	6.7	N.	36	SE.	0	117	71	76	88	115	107	36	116	4	88	137	140	100	81	6	0	1	3	1	20	51	73

BISMARCK, N. DAK.

[H=1,674 ft.; h₁=8 ft.; h₂=3 ft.; h₃=57 ft.]

January	8.1	NW.	40	S.	1	8	3	8	8	5	0	4	25	1	11	9	11	6	2	9	6	0	0	0	0	0	0	0
February	9.9	NW.	40	W.	1	2	5	8	7	2	3	4	24	1	13	5	10	5	3	11	5	0	0	0	0	0	0	0
March	11.9	NW.	60	W.	5	10	2	5	4	7	4	9	21	0	15	13	3	3	1	1	1	0	0	0	0	0	0	0
April	14.6	N.	46	NW.	4	15	4	8	2	13	4	2	12	0	17	7	6	4	4	2	2	0	0	0	0	1	1	
May	13.5	S.	50	NW.	2	9	9	4	9	10	5	2	13	1	11	14	6	6	9	0	0	0	0	0	0	0	0	
June	12.1	SE.	44	SW.	1	5	6	11	4	1	6	7	0	0	14	11	5	13	9	2	2	0	0	0	0	0	0	
July	10.5	NW.	48	SW.	1	11	3	6	11	4	1	4	20	0	28	11	3	3	2	0	0	0	0	0	0	0	0	
August	9.7	NW.	48	W.	2	4	9	6	8	6	2	5	18	1	13	10	8	8	4	0	0	0	0	0	0	0	0	
September	8.9	NW.	34	NW.	0	5	5	10	9	4	2	5	19	1	11	11	7	7	6	0	0	0	0	0	0	0	0	
October	10.4	NW.	42	NW.	4	3	5	7	6	5	5	6	24	1	13	8	10	3	1	2	0	0	0	0	0	1	12	
November	9.9	NW.	33	W.	0	0	4	9	7	2	1	9	28	0	6	8	16	2	1	8	1	0	0	0	0	0	0	
December	10.5	NW.	42	NW.	1	1	2	4	9	2	4	7	33	0	12	8	11	7	3	10	7	0	0	0	0	0	0	
Year	10.8	NW.	60	W.	25	73	57	81	101	69	32	67	244	6	156	112	97	76	43	47	21	1	3	80	28	173	28	

BLOCK ISLAND, R. I.

[H=26 ft.; h₁=11 ft.; h₂=3 ft.; h₃=46 ft.]

January	17.6	NW.	73	NE.	9	8	4	3	4	6	10	14	11	2	11	3	17	18	13	6	6	0	3	6	0	18	0
February	21.6	NW.	67	S.	8	5	4	2	6	4	11	11	13	0	8	9	11	10	9	5	3	0	2	7	0	0	0
March	15.7	SW.	47	W.	3	5	7	4	4	6	21	8	7	0	16	7	8	9	7	2	2	0	4	0	0	0	0
April	16.3	SW.	40	E.	1	1	3	9	12	5	10	11	9	0	14	7	9	12	8	0	0	0	10	0	0	0	0
May	13.1	SW.	37	W.	0	2	7	8	3	7	17	13	5	0	9	5	16	13	9	0	0	0	0	0	0	0	0
June	14.2	SW.	46	NE.	1	3	9	2	5	2	28	8	3	0	9	6	16	13	9	0	0	0	0	0	0	0	0
July	12.6	SW.	49	N.	2	4	9	0	3	11	24	9	2	0	16	14	1	5	4	0	0	0	0	0	0	0	0
August	12.5	SW.	35	NE.	0	1	6	5	10	5	7	7	0	0	18	5	8	9	8	0	0	0	4	0	0	0	0
September	12.8	SW.	42	NE.	2	6	11	8	6	8	12	5	4	0	17	5	8	8	6	0	0	0	0	0	0	0	0
October	20.2	SW.	54	NW.	8	5	4	4	4	5	20	4	16	0	19	3	9	7	7	0	0	0	0	0	0	0	0
November	22.0	NW.	58	NW.	9	6	6	2	4	1	5	12	24	0	8	11	11	13	7	3	2	1	0	0	0	0	0
December	21.4	NW.	64	NW.	8	4	4	0	2	5	9	13	25	0	9	6	16	11	7	8	5	0	0	0	0	0	0
Year	16.7	SW.	73	NE.	51	50	75	53	59	66	186	113	126	2	154	88	123	126	94	24	18	1	46	23	0	75	19

BOISE, IDAHO.

[H=2,739 ft.; h₁=78 ft.; h₂=72 ft.; h₃=86 ft.]

January	4.6	NW.	30	SE.	0	5	2	3	14	5	2	14	17	0	2	8	21	18	12	24	14	0	5	12	0	0	0
February	5.2	NW.	32	NW.	0	4	4	14	3	5	13	14	0	6	4	18	14	11	16	10	0	0	2	10	0	0	0
March	4.9	NW.	25	NW.	0	6	2	6	13	5	4	7	19	0	13	9	9	7	4	1	1	1	0	0	0	0	0
April	6.3	NW.	38	NW.	0	4	3	2	15	7	2	7	20	0	14	7	9	7	6	1	0	0	0	0	0	0	0
May	6.7	NW.	30	E.	0	12	2	5	13	5	3	3	19	0	20	5	6	6	5	0	0	0	0	0	0	0	0
June	5.8	NW.	36	SW.	0	5	2	8	12	5	3	10	14	1	22	7	1	2	0	2	0	0	0	0	0	0	0
July	4.9	NW.	30	SE.	0	3	3	6	16	4	1	11	15	1	31	9	0	0	0	0	0	0	0	0	0	0	0
August	4.3	NW.	20	NW.	0	5	0	14	4	1	6	22	1	0	9	0	9	9	0	0	0	0	0	0	0	0	0
September	4.8	NW.	25	SW.	0	5	5	5	11	5	1	6	21	1	19	3	5	6	4	0	0	0	1	0	0	0	0
October	4.5	N.	30	SE.	0	13	5	4	12	4	1	10	11	2	14	12	5	6	5	0	0	0	0	0	0	0	0
November	5.1	SE.	26	NW.	0	9	1	7	21	3	1	5	13	0	5	4	21	16	13	4	2	0	1	0	0	10	
December	3.6	NW.	22	W.	0	12	5	4	8	6	1	4	20	2	5	8	18	11	4	10	4	0	4	1	0	0	
Year																											

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

BOSTON, MASS.

[$\phi=42^{\circ} 21' N.$; $\lambda=71^{\circ} 04' W.$]

Month.	Pressure.			Temperature.						Moisture.											
	Monthly mean.	Extremes.		Mean.			Extremes.			Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.					
		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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
January.....	29.950	30.679	29.013	29.5	33.2	39.1	24.9	32.0	57	—	23	27	77	76	0.140	0.132	4.25	1.29	5.7	4.4	6.6
February.....	29.933	30.633	29.353	26.2	30.8	37.7	21.3	25.5	60	—	20	22	75	69	0.124	0.134	3.44	1.22	5.2	5.1	5.5
March.....	29.925	30.389	29.284	29.0	42.4	49.7	34.3	45.0	78	17	28	32	64	68	0.162	0.194	1.25	0.69	4.8	3.4	5.3
April.....	29.819	30.281	29.394	48.8	52.0	59.5	43.8	51.6	78	35	40	42	73	70	0.263	0.279	2.22	0.72	5.6	4.9	6.5
May.....	29.825	30.284	29.308	55.5	57.2	64.7	50.5	57.6	86	40	45	46	70	71	0.315	0.329	1.02	0.58	6.1	6.5	6.8
June.....	29.777	30.084	29.314	63.2	65.7	72.8	57.5	65.2	92	46	54	55	74	70	0.439	0.433	4.89	1.26	5.0	5.2	6.7
July.....	29.751	30.056	29.474	73.4	74.5	83.2	66.6	74.9	94	58	61	61	66	64	0.545	0.542	1.15	0.41	5.0	4.4	5.4
August.....	29.943	30.252	29.555	67.2	68.6	75.9	61.7	68.8	88	54	59	60	76	76	0.509	0.535	0.98	0.43	4.6	4.0	6.1
September.....	29.965	30.209	29.690	60.6	62.5	70.3	55.3	62.8	82	47	54	54	80	75	0.433	0.425	2.14	0.58	6.0	4.2	5.6
October.....	29.843	30.318	29.327	52.6	56.0	64.7	47.4	56.0	85	33	44	45	73	68	0.309	0.317	1.14	0.55	5.3	2.9	4.9
November.....	29.620	30.246	29.230	38.7	41.2	46.6	35.8	41.2	61	26	32	33	77	72	0.190	0.192	3.75	1.80	7.2	5.1	7.1
December.....	29.851	30.587	29.215	25.2	28.8	34.8	20.2	27.5	55	6	18	19	71	65	0.110	0.111	2.10	1.25	6.6	4.4	5.9
Year.....	29.850	30.679	29.013	48.3	51.1	58.2	43.3	50.8	94	— 3	40	41	73	70	0.295	0.304	28.33	1.80	5.7	4.5	6.0

BUFFALO, N. Y.

[$\phi=42^{\circ} 53' N.$; $\lambda=78^{\circ} 53' W.$]

January.....	29.905	29.905	28.051	24.8	27.1	31.9	20.4	26.2	48	— 1	21	23	84	83	0.117	0.125	6.41	1.07	9.3	8.7	9.0
February.....	29.245	29.718	28.870	19.0	23.1	29.8	14.0	21.9	47	— 6	15	18	81	82	0.094	0.108	5.74	1.61	8.0	6.6	7.1
March.....	29.201	29.477	28.617	36.6	40.1	47.9	31.5	39.7	72	15	30	33	76	75	0.177	0.195	0.68	0.34	5.1	3.6	4.8
April.....	29.075	29.464	28.670	44.4	47.5	56.7	37.3	47.0	80	28	39	39	81	74	0.246	0.252	4.31	0.93	6.3	6.7	6.0
May.....	29.149	29.549	28.677	49.8	53.3	59.5	45.3	52.4	79	35	44	46	83	78	0.301	0.320	2.87	1.06	5.8	7.0	6.2
June.....	29.124	29.390	28.630	60.7	65.2	69.5	56.2	62.8	87	41	56	56	85	75	0.459	0.471	1.05	0.44	5.8	5.3	5.2
July.....	29.103	29.369	28.872	68.8	71.5	76.9	63.3	70.1	88	56	62	62	80	74	0.565	0.566	5.33	3.10	3.3	4.4	5.4
August.....	29.201	29.425	28.825	66.7	71.3	77.1	61.8	69.4	86	54	60	62	79	72	0.525	0.556	2.72	1.16	5.5	6.0	5.6
September.....	29.261	29.526	28.959	59.1	63.2	69.3	54.7	62.0	79	45	55	57	86	82	0.440	0.483	2.16	0.87	5.8	4.1	5.5
October.....	29.167	29.580	28.477	50.9	54.0	61.4	45.4	53.4	78	28	46	48	83	82	0.327	0.355	5.26	1.91	5.2	4.1	5.6
November.....	29.017	29.431	28.501	34.3	36.4	40.2	32.0	36.1	61	25	30	32	83	84	0.167	0.183	2.89	0.89	8.9	8.1	8.6
December.....	29.189	29.746	28.527	22.4	24.3	29.6	17.1	25.4	40	3	18	20	84	81	0.109	0.109	2.98	0.59	8.7	6.7	7.4
Year.....	29.161	29.905	28.051	44.8	48.1	54.2	39.9	47.0	88	— 6	40	41	82	78	0.293	0.310	42.43	3.10	6.5	6.0	6.4

BURLINGTON, VT.

[$\phi=44^{\circ} 28' N.$; $\lambda=73^{\circ} 12' W.$]

January.....	29.646	30.235	28.942	18.6	.....	28.2	12.8	20.5	50	— 17	15	.....	84	83	0.096	.....	2.70	1.04	8.0	.....	7.2
February.....	29.614	30.228	29.073	14.4	.....	25.5	6.7	16.1	45	— 17	11	.....	84	82	0.081	.....	3.00	0.93	7.5	.....	6.7
March.....	29.573	29.816	28.939	33.1	.....	43.6	27.1	35.4	68	6	25	.....	70	.....	0.137	.....	0.51	0.18	5.0	.....	5.3
April.....	29.512	29.944	29.084	44.8	.....	56.0	38.5	47.2	74	26	36	.....	70	.....	0.222	.....	2.10	0.52	6.5	.....	6.3
May.....	29.510	29.999	29.050	51.2	.....	62.3	44.2	53.2	79	30	42	.....	74	.....	0.289	.....	3.42	1.18	6.9	.....	7.2
June.....	29.476	29.788	28.962	60.8	.....	70.9	52.7	61.8	85	34	53	.....	76	.....	0.408	.....	3.10	1.29	6.6	.....	6.4
July.....	29.444	29.749	28.912	67.1	.....	79.8	58.5	69.2	92	48	59	.....	75	.....	0.498	.....	3.06	1.01	5.3	.....	5.2
August.....	29.600	29.976	29.229	63.5	.....	74.7	55.6	65.2	82	42	56	.....	77	.....	0.454	.....	2.76	0.84	6.1	.....	6.0
September.....	29.637	29.929	29.286	55.5	.....	66.0	46.9	56.4	75	56	50	.....	83	.....	0.372	.....	2.75	1.63	5.7	.....	5.7
October.....	29.526	30.024	29.050	45.6	.....	56.1	39.5	47.8	81	30	39	.....	78	.....	0.256	.....	3.34	0.99	7.4	.....	6.7
November.....	29.362	29.881	29.004	32.0	.....	38.2	28.8	33.5	55	14	28	.....	84	.....	0.152	.....	2.43	0.80	9.3	.....	7.8
December.....	29.550	30.301	28.899	15.1	.....	24.3	7.4	15.8	39	— 13	11	.....	80	.....	0.083	.....	2.46	0.94	8.7	.....	7.8
Year.....	29.539	30.301	28.899	41.8	.....	52.1	34.9	43.5	92	— 17	35	.....	78	.....	0.254	.....	31.63	1.63	6.9	.....	6.6

CAIRO, ILL.

[$\phi=37^{\circ} 0' N.$; $\lambda=89^{\circ} 10' W.$]

January.....	29.789	30.345	29.180	32.0	37.7	43.9	28.7	36.3	64	6	26	27	78	66	0.152	0.158	2.63	0.92	5.6	5.5	6.3
February.....	29.822	30.125	29.465	27.9	36.4	43.1	25.6	34.4	61	5	19	25	68	64	0.109	0.144	3.29	1.58	5.0	5.3	5.9
March.....	29.735	29.969	29.526	50.1	63.1	69.3	48.4	52.9	87	28	39	40	68	46	0.250	0.263	1.89	1.23	2.9	3.5	3.8
April.....	29.561	29.827	29.268	51.8	59.5	66.6	48.4	57.5	84	28	45	45	78	62	0.315	0.324	6.78	2.03	6.7	6.3	6.7
May.....	29.541	29.998	29.244	58.3	63.6	72.1	55.7	63.9	85	45	51	51	76	60	0.382	0.395	2.86	1.69	6.6	7.1	6.7
June.....	29.598	29.813	29.355	67.3	76.5	81.4	63.6	72.5	94	50	61	61	81	61	0.555	0.548	2.05	0.87	4.5	5.5	5.1
July.....	29.571	29.797	29.370	73.2	79.8	86.0	70.6	78.3	94	63	70	70	88	73	0.734	0.740	7.59	2.11	7.2	6.3	6.0
August.....	29.630	29.839	29.495	70.2	79.6	85.4	67.9	76.6	92	57	66	68	86	67	0.648	0.682	2.90	1.66	4.1	4.2	4.1
September.....	29.684	29.906	29.464	66.6	76.1	82.6	64.4	73.5	91	56	62	65	86	69	0.578	0.631	0.93	0.33	4.9	3.6	4.6
October.....	29.686	30.107	29.320	53.8	63.7	71.0	51.9	61.4	91	28	49	51	84	64	0.379	0.414	11.57	5.69	2.9	2.4	3.2
November.....	29.687	29.989	29.294	38.8	48.2	54.4	35.9	45.2	74	27	30	31	71	52	0.176	0.182	0.55	0.37	5.0	3.5	4.7
December.....	29.796	30.356	29.391	30.7	37.8	42.3	28.1	35.2	61	18	24	25	74	60	0.132	0.142	3.39	1.72	5.8	4.7	4.9
Year.....	29.683	30.356	29.180	51.7	60.4	66.5	49.1	57.8	94	5	45	47	78	62	0.367	0.385	45.93	5.69	5.1	4.8	5.2

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

CANTON, N. Y.

[$\phi=44^{\circ}36' N.$; $\lambda=75^{\circ}10' W.$]

Month.	Pressure.				Temperature.						Moisture.							
	Monthly mean.	Extremes.		Mean.	Extremes.		Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.					
		Maximum.	Minimum.		Maximum.	Minimum.		8 a. m.	8 p. m.	8 a. m.	8 p. m.		8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
January.....	In. 29.600	In. 30.229	In. 28.781	19.6	28.9	12.1	20.5	52	-14	17	83	83	0.102	In. 1.83	In. 0.70	8.6	.....	7.1
February.....	29.589	30.187	29.108	13.0	25.3	5.2	15.2	43	-27	10	88	88	.083	2.87	.89	8.2	.....	6.5
March.....	29.530	29.851	29.035	33.3	45.1	26.1	35.6	72	4	29	84	84	.172	1.40	.46	5.9	.....	5.4
April.....	29.460	29.873	28.882	44.6	57.4	37.9	47.6	77	25	44	88	88	.275	1.61	.61	6.3	.....	6.1
May.....	29.487	29.859	29.059	51.2	61.8	43.8	52.8	77	30	43	87	87	.294	3.61	1.15	5.9	.....	5.5
June.....	29.450	29.702	28.932	61.4	72.5	52.2	62.4	85	32	53	75	75	.417	1.96	.71	5.4	.....	4.3
July.....	29.417	29.738	29.151	67.6	80.7	58.1	69.4	91	48	59	76	76	.510	1.94	.80	5.3	.....	4.3
August.....	29.554	29.896	29.031	64.5	77.8	55.8	66.8	86	41	56	75	75	.457	2.69	.94	5.2	.....	4.6
September.....	29.616	29.865	29.333	54.6	67.9	43.3	55.6	78	31	49	82	82	.356	2.56	1.76	5.2	.....	5.5
October.....	29.492	29.965	28.733	45.3	57.3	37.9	47.6	78	21	40	83	83	.267	4.41	1.76	7.0	.....	6.2
November.....	29.339	29.803	28.971	30.6	36.7	27.4	32.0	59	14	28	89	89	.149	2.91	.66	9.1	.....	8.3
December.....	29.539	30.237	28.831	10.6	22.6	1.8	12.2	39	-30	9	92	92	.077	3.49	.81	7.9	.....	6.9
Year.....	29.506	30.237	28.733	41.4	52.8	33.5	43.1	91	-30	36	83	83	.263	31.30	1.76	6.7	.....	5.9

CAPE MAY, N. J.

[$\phi=38^{\circ}56' N.$; $\lambda=74^{\circ}51' W.$]

January.....	30.125	30.777	29.116	31.4	34.1	38.7	28.1	33.4	47	12	27	30	82	84	0.151	0.169	4.64	.95	6.3	5.6	6.5
February.....	30.152	30.728	29.610	30.3	33.7	40.2	27.2	33.7	52	7	25	28	79	77	.141	.103	2.33	1.41	4.2	2.9	5.2
March.....	30.097	30.481	29.490	40.9	43.2	50.3	37.3	43.8	68	26	36	38	82	84	.241	.241	2.30	1.31	3.6	2.2	5.1
April.....	29.937	30.283	29.603	50.4	51.6	57.5	46.1	51.8	68	37	44	45	80	80	.291	.306	4.10	1.87	4.6	3.6	5.5
May.....	30.000	30.449	29.563	57.6	58.3	65.9	52.8	59.8	78	44	49	51	76	77	.364	.379	1.88	.40	4.9	4.6	5.5
June.....	29.942	30.271	29.575	64.8	63.7	71.7	60.0	65.8	86	50	60	60	84	88	.523	.522	5.03	1.03	4.9	4.5	5.5
July.....	29.927	30.175	29.687	72.3	72.5	80.6	66.9	73.8	93	57	67	67	84	84	.665	.674	1.31	.51	3.4	4.2	4.5
August.....	30.062	30.302	29.713	71.3	71.1	79.1	66.4	72.8	86	58	66	66	83	85	.643	.646	3.90	1.67	5.8	4.6	5.3
September.....	30.081	30.282	29.632	67.4	69.4	76.0	63.6	69.8	86	53	62	63	82	80	.563	.584	2.38	2.01	4.2	3.7	4.2
October.....	30.039	30.445	29.602	58.2	60.3	67.4	53.5	60.4	82	36	51	52	78	74	.404	.413	5.55	3.43	4.3	2.5	3.7
November.....	29.864	30.352	29.516	40.7	43.2	49.4	37.7	43.6	65	27	33	35	74	72	.192	.206	1.63	.68	5.1	4.7	5.3
December.....	30.089	30.743	29.435	29.5	31.7	36.9	25.5	31.2	50	14	24	26	78	77	.135	.140	2.94	.94	5.1	4.5	5.2
Year.....	30.026	30.777	29.116	51.2	52.7	59.5	47.1	53.3	93	7	45	47	80	80	.357	.370	38.05	3.43	4.7	4.0	5.1

CHARLES CITY, IOWA.

[$\phi=43^{\circ}4' N.$; $\lambda=92^{\circ}38' W.$]

January.....	28.989	29.562	28.042	9.3	15.3	22.1	1.5	11.8	41	-32	8	13	96	91	0.074	0.087	1.75	0.88	5.3	6.1	6.9
February.....	29.049	29.487	28.337	6.7	15.7	22.1	-0.3	10.9	37	-17	5	12	94	84	.061	.079	.61	.27	4.3	5.6	6.1
March.....	28.950	29.276	28.643	35.3	48.8	56.3	32.5	44.4	83	18	32	37	86	86	.183	.237	.18	.12	3.0	4.8	4.8
April.....	28.814	29.129	28.442	41.9	55.5	63.3	37.2	50.2	92	22	36	40	80	80	.221	.285	.87	.37	6.2	5.8	6.1
May.....	28.938	29.444	28.609	47.2	59.9	65.5	42.4	54.0	76	28	39	40	74	72	.249	.264	2.67	1.37	5.4	5.5	6.0
June.....	28.949	29.164	28.683	61.0	76.8	82.9	54.9	68.9	96	38	54	56	79	51	.443	.473	.61	.29	4.3	4.2	4.3
July.....	28.874	29.190	28.602	64.7	82.5	87.1	69.2	73.2	98	48	58	59	79	47	.483	.513	.43	.14	4.5	4.1	4.9
August.....	28.917	29.202	28.599	62.1	75.6	81.4	58.2	69.8	94	43	58	60	86	60	.489	.530	5.84	1.46	6.5	6.1	6.5
September.....	28.978	29.389	28.566	52.5	63.6	71.7	50.0	60.8	86	39	49	54	89	73	.359	.432	1.74	1.00	5.3	5.5	5.5
October.....	28.923	29.276	28.543	42.1	54.6	65.3	39.5	52.4	85	16	38	43	87	67	.245	.302	.36	.16	3.8	3.6	4.2
November.....	28.950	29.265	28.473	24.5	30.7	37.0	21.4	29.2	52	10	21	24	87	74	.114	.126	.29	.19	6.9	5.4	6.9
December.....	28.900	29.583	28.615	14.4	22.5	29.3	9.6	19.4	50	-12	13	18	93	81	.079	.098	.53	.20	5.3	4.9	5.5
Year.....	28.946	29.583	28.042	38.5	50.1	57.0	33.8	45.4	98	-32	34	38	86	67	.250	.283	15.88	1.46	5.1	5.1	5.6

CHARLESTON, S. C.

[$\phi=32^{\circ}47' N.$; $\lambda=79^{\circ}56' W.$]

January.....	30.136	30.673	29.269	43.8	49.4	57.5	40.4	49.0	74	29	40	41	85	74	0.254	0.273	1.39	0.79	4.8	3.5	4.7
February.....	30.135	30.463	29.706	43.6	50.1	57.7	41.2	49.4	74	29	39	42	84	75	.260	.294	3.64	1.13	5.7	4.8	5.4
March.....	30.062	30.323	29.781	54.7	59.9	68.6	52.4	60.5	82	35	50	52	86	77	.383	.406	.63	.65	1.8	2.4	3.1
April.....	29.928	30.178	29.679	61.1	65.4	73.9	57.0	65.4	89	41	53	54	76	67	.426	.435	1.00	.64	3.5	3.2	3.5
May.....	29.937	30.294	29.568	69.2	71.3	79.1	65.5	72.3	92	54	60	62	74	72	.538	.583	1.01	.67	5.4	3.8	5.0
June.....	29.934	30.168	29.682	75.2	78.9	82.7	70.9	77.3	95	60	67	68	77	76	.674	.705	3.95	1.04	5.0	6.2	5.2
July.....	29.962	30.187	29.748	78.7	79.1	87.0	74.5	80.8	92	66	72	80	80	788	.793	4.68	1.80	4.0	3.7	5.3	
August.....	29.962	30.131	29.842	77.6	79.1	84.7	74.7	79.7	95	70	73	73	85	81	.803	.809	10.00	5.72	6.1	5.9	5.7
September.....	30.014	30.174	29.864	73.8	76.5	83.5	70.8	77.2	95	68	69	70	86	80	.728	.737	4.39	2.31	4.0	3.7	4.6
October.....	29.976	30.484	29.351	66.7	70.3	76.8	63.1	70.0	86	37	61	62	82	76	.576	.606	6.18	3.26	2.9	2.2	3.2
November.....	29.933	30.272	29.687	49.4	55.0	63.4	45.9	54.6	76	37	42	45	76	71	.280	.315	1.61	1.68	3.2	2.2	3.4
December.....	30.107	30.539	29.564	40.8	46.6	53.8	37.5	45.6	67	28	36	37	82	70	.223	.233	1.21	.69	3.6	3.5	3.9
Year.....	30.012	30.673	29.269	61.2	65.0	72.5	57.8	65.2	95	28	55	56	81	75	.494	.513	36.69	5.72	4.2	3.8	4.4

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

BOSTON, MASS.

[H=125 ft.; h₁=115 ft.; h₂=154 ft.; h₃=188 ft.]

Month.	Wind.													Number of days.														
	By self-register.					North of winds, 8 a. m. and 8 p. m.								Precipitation.	Snow.	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.	7. or more.	0.01 inch or more melted.	Hail.	Fog.	32° or below.	90° or above.
														Miles.	W.	Mt.												
January	11.5	W.	42	SE.	3	6	3	4	3	6	13	15	12	0	6	9	16	15	12	11	8	0	1	5	0	24	0	
February	13.0	W.	43	SE.	1	7	3	2	2	4	10	18	9	0	11	5	11	11	11	7	5	0	0	7	0	23	0	
March	10.7	W.	33	SW.	0	8	3	2	3	3	13	16	9	0	11	9	11	11	7	7	4	0	0	0	0	1	0	
April	10.0	W.	30	SW.	0	4	3	3	3	3	10	13	9	0	7	7	8	15	7	7	4	0	0	0	0	0	0	
May	9.7	SW.	27	NW.	0	5	13	10	7	10	17	18	10	0	9	9	9	9	6	6	0	0	0	0	0	0	0	
June	9.2	W.	33	NE.	0	11	8	9	1	0	10	14	7	0	11	12	12	9	0	0	0	0	1	0	1	0	0	
July	9.1	SW.	27	N.	0	7	4	3	3	3	19	12	7	0	12	6	13	6	5	0	0	0	0	0	5	0	0	
August	9.2	SW.	27	N.	0	3	7	6	4	4	8	15	5	0	8	8	15	7	3	0	0	0	0	0	0	0	0	
September	8.4	SW.	24	N.	0	12	6	4	6	8	12	6	6	0	9	9	12	11	7	7	0	0	3	0	0	0	0	
October	11.5	SW.	42	NW.	0	1	4	5	2	5	3	16	9	0	14	5	12	10	6	0	0	0	1	0	0	0	0	
November	11.1	W.	34	E.	0	6	5	3	2	2	4	4	4	0	3	12	15	8	6	5	2	2	0	0	0	0	0	
December	11.6	W.	36	NW.	0	5	0	0	0	1	6	8	26	16	0	10	6	15	11	7	0	0	0	11	0	28	0	
Year..	10.4	W.	43	NE.	5	78	59	53	42	61	140	172	135	0	103	97	165	114	85	36	23	0	6	23	6	94	14	1

BUFFALO, N. Y.

[H=767 ft.; h₁=178 ft.; h₂=168 ft.; h₃=206 ft.]

January	15.2	SW.	56	SW.	5	1	4	8	2	13	17	12	5	0	0	5	26	21	17	26	18	0	0	1	16	0	29	0	0
February	16.3	SW.	56	W.	3	5	7	5	2	8	16	13	3	0	5	5	18	17	16	18	15	0	0	2	17	0	26	0	0
March	14.1	SW.	47	NW.	4	2	5	5	2	9	23	6	9	1	12	11	8	6	4	7	3	0	0	2	3	0	15	2	0
April	11.5	NW.	52	SW.	1	2	12	4	11	5	26	6	4	0	10	4	16	17	14	4	0	0	0	2	3	0	0	0	0
May	11.8	SW.	48	SW.	2	2	10	7	3	5	22	10	6	0	8	7	16	17	12	0	0	0	0	3	0	0	0	0	0
June	11.1	SW.	33	SW.	0	2	4	9	1	4	26	11	5	0	14	7	9	8	6	0	0	0	1	0	0	0	0	1	0
July	11.5	SW.	44	W.	2	2	10	1	1	4	26	11	4	0	13	8	10	8	7	0	0	0	0	0	0	0	0	0	0
August	11.6	SW.	47	SW.	2	2	6	9	4	12	16	9	4	0	6	16	9	8	8	0	0	0	0	0	0	0	0	0	0
September	10.6	SW.	34	SW.	0	0	14	9	5	7	10	8	3	0	12	5	13	10	8	0	0	0	0	2	0	0	0	0	0
October	15.1	SW.	60	W.	3	4	6	5	5	8	16	9	9	0	9	12	10	12	8	3	2	0	2	0	0	0	3	3	0
November	16.3	W.	46	W.	5	4	3	5	1	5	5	25	12	0	7	23	18	13	18	10	1	0	0	0	0	0	21	1	0
December	16.5	W.	63	SW.	7	6	6	8	5	4	11	14	8	0	3	9	19	23	16	27	22	0	1	21	0	31	0	0	
Year..	13.5	SW.	63	SW.	34	39	88	68	44	84	204	132	70	1	92	96	177	165	129	101	72	2	16	57	0	129	29	1	

BURLINGTON, VT.

[H=404 ft.; h₁=11 ft.; h₂=3 ft.; h₃=48 ft.]

January	13.7	S.	54	S.	8	6	2	1	8	8	1	2	3	0	4	10	17	19	10	23	10	0	0	0	21	0	29	0	0
February	14.0	S.	56	S.	5	5	0	3	0	12	3	1	4	0	4	13	11	14	12	19	11	0	0	1	20	0	26	0	0
March	12.9	S.	66	S.	6	3	0	0	0	15	1	6	4	0	10	12	9	7	5	7	1	0	0	0	4	0	23	1	2
April	11.4	NW.	56	S.	1	6	0	0	4	10	1	2	7	0	6	13	11	13	8	5	2	0	0	3	0	0	9	2	0
May	10.7	S.	39	S.	0	6	1	2	2	9	1	1	8	1	2	14	15	13	10	0	0	0	0	3	0	0	1	5	1
June	6.6	S.	27	S.	0	4	1	2	2	12	3	1	5	0	2	17	11	12	10	0	0	0	0	0	0	0	0	4	1
July	7.6	S.	31	S.	0	1	2	0	3	5	16	0	4	3	0	4	23	4	13	8	0	0	0	0	0	0	0	8	0
August	10.4	S.	37	S.	0	0	1	2	0	5	16	0	3	2	0	7	13	11	9	7	0	0	0	0	0	0	0	4	2
September	6.0	S.	33	S.	0	4	4	2	11	0	1	7	0	8	10	12	12	9	0	0	0	2	0	0	0	0	6	2	0
October	12.9	S.	46	S.	2	3	0	2	4	13	0	3	6	0	4	12	15	13	11	2	2	0	0	0	0	0	5	1	5
November	10.6	NW.	47	S.	1	5	2	2	3	7	0	3	7	0	6	24	16	12	15	10	0	0	2	0	0	0	24	0	0
December	12.0	S.	50	S.	5	1	2	2	6	3	10	1	1	7	0	7	23	16	11	26	15	0	1	23	0	31	0	0	
Year..	10.7	S.	66	S.	28	46	15	24	38	138	11	28	63	2	52	150	103	157	114	97	57	0	10	70	1	148	28	13	

CAIRO, ILL.

[H=356 ft.; h₁=87 ft.; h₂=80 ft.; h₃=93 ft.]

January	10.4	S.	48	SW.	1	7	8	3	4	19	6	2	13	0	10	5	16	9	8	2	2	0	0	3	0	0	20	2	0	
February	11.7	N.	38	SW.	0	13	9	1	8	13	4	1	7	0	9	6	13	12	9	0	0	0	0	2	5	0	0	22	0	0
March	8.8	S.	36	N.	0	8	8	2	4	23	15	1	1	0	16	7	8	5	3	0	0	0	0	2	0	0	1	1	0	
April	10.1	S.	54	NW.	4	5	7	1	10	12	10	6	9	0	7	8	15	14	11	4	1	1	0	1	0	0	1	8	0	
May	9.8	SE.	37	SW.	0	7	11	5	12	6	10	9	2	0	6	8	17	14	10	0	0	0	0	0	0	0	0	0	0	0
June	6.6	NE.	40	N.	1	11	17	7	6	8	5	3	3	0	11	11	8	9	4	0	0	0	0	0	0	0	4	0	0	
July	7.0	S.	39	N.	0	2	9	5	5	18	16	5	2	0	10	10	11	16	15	0	0	0	0	0	0	0	0	0	0	0
August	5.9	NE.	41	N.	1	9	18	3	8	13	5	1	0	0	14	11	6	7	5	0	0	0	0	0	0	0	0	4	0	0
September	6.7	NE.	25	S.	0	0	11	18	0	2	13	14	0	0	2	12	12	6	10	7	0	0	0	0	0	0	0	0	0	0
October	7.5	NE.	33	SW.	0	7	14	3	3	5	9	6	2	15	0	14	5													

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

CANTON, N. Y.

[H=448 ft.; h₁=10 ft.; h₂=4 ft.; h₃=61 ft.]

Month.	Wind.											Number of days.																										
	By self-register.				Number of winds, 8 a. m. and 8 p. m.							Precipitation.	Snow.	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.	T. or more.	0.01 inch or more melted.	Hall.	Fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.						
												Miles.	Mi.																									
January	12.4	SW.	52	SE.	6	0	6	1	3	3	12	3	3	0	5	8	18	16	10	21	14	0	0	0	19	0	30	0	0	0	0	0	0	0				
February	12.2	SW.	38	W.	0	0	3	1	1	1	13	3	3	0	7	9	12	19	12	19	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
March	12.6	SW.	48	SW.	3	0	2	4	1	2	14	7	1	0	10	12	9	10	8	8	5	0	0	0	6	0	23	0	0	0	0	0	0	0	0			
April	9.9	SW.	44	SW.	1	1	1	8	5	2	1	9	1	3	0	8	11	11	13	9	2	2	0	2	0	0	0	10	2	2	0	0	0	0	0			
May	10.2	SW.	50	W.	2	0	7	1	0	0	18	3	2	0	8	12	11	16	14	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
June	9.2	SW.	37	SW.	0	3	3	2	0	0	17	3	2	0	13	11	6	9	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
July	9.1	SW.	32	W.	0	1	3	0	2	6	13	6	0	0	14	14	3	14	9	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0		
August	10.2	SW.	39	SW.	0	0	4	1	1	0	12	9	0	0	10	16	5	9	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
September	8.2	SW.	38	SW.	0	0	2	1	5	2	2	9	5	2	0	10	11	9	10	8	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
October	11.0	SW.	60	SW.	0	2	1	2	2	2	9	5	6	4	0	9	8	14	13	11	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November	9.6	NW.	34	SW.	1	3	4	0	0	2	5	5	5	0	1	7	22	19	17	15	0	0	0	0	0	0	7	0	24	0	0	0	0	0	0	0	0	
December	9.8	SW.	39	SW.	0	2	4	2	2	7	7	7	7	1	0	4	11	16	19	17	22	18	0	0	0	0	23	0	31	0	0	0	0	0	0	0	0	
Year	10.4	SW.	60	SW.	15	15	54	21	15	55	126	51	28	0	99	130	136	167	127	91	72	1	6	75	2	158	12	158	12	158	12	158	12	158	12	158		

CAPE MAY, N. J.

[H=17 ft.; h₁=9 ft.; h₂=3 ft.; h₃=56 ft.]

January	10.2	NW.	40	SE.	1	12	2	2	0	6	13	6	6	17	0	6	10	15	19	15	.....	6	0	7	3	0	22	1	0	0	0	0	0	0	0	0		
February	11.1	W.	39	S.	0	8	1	1	6	9	8	12	10	0	9	8	11	11	10	.....	5	0	8	5	0	20	0	0	0	0	0	0	0	0	0	0	0	
March	7.9	S.	30	NE.	0	8	4	7	5	8	15	5	4	7	1	12	12	7	7	5	.....	3	0	6	0	0	8	1	0	0	0	0	0	0	0	0	0	0
April	9.6	S.	36	NE.	0	3	4	7	9	24	4	6	3	0	9	15	6	12	10	.....	0	0	4	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
May	9.1	S.	30	S.	0	12	4	5	3	23	2	9	5	0	8	14	9	13	11	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
June	7.3	S.	31	E.	0	7	3	4	7	20	8	5	3	3	11	11	8	17	15	.....	0	0	6	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
July	6.9	SW.	36	SE.	0	6	4	5	6	15	21	4	1	0	12	15	4	11	6	.....	0	0	2	0	2	0	2	0	7	0	0	0	0	0	0	0	0	0
August	7.8	SE.	26	NE.	0	3	10	10	16	14	6	0	3	0	8	21	2	13	9	.....	0	0	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
September	7.5	SE.	28	NE.	0	13	7	5	14	6	10	5	0	0	16	9	5	8	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
October	9.8	SW.	28	NW.	0	8	4	8	6	3	17	6	10	0	18	8	5	9	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November	11.5	NW.	39	NW.	0	1	1	1	2	4	6	8	37	0	10	16	4	9	8	.....	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
December	10.4	NW.	40	NW.	1	7	5	1	4	14	1	9	21	0	10	12	9	8	8	9	0	4	8	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0
Year	9.1	S.	40	NW.	2	88	54	51	87	159	94	74	117	4	129	151	85	137	108	.....	24	0	45	16	2	79	25	0	0	0	0	0	0	0	0	0	0	0

CHARLES CITY, IOWA.

[H=1,015 ft.; h₁=10 ft.; h₂=4 ft.; h₃=49 ft.]

January	7.3	NW.	29	NW.	0	6	4	2	10	10	5	3	20	2	5	7	19	7	6	14	7	0	3	26	0	31	0	0	0	0	0	0	0	0	0	0			
February	7.5	NW.	28	SE.	0	6	5	1	14	6	1	3	20	0	8	9	11	6	5	8	5	0	1	20	0	28	0	0	0	0	0	0	0	0	0	0	0		
March	7.6	NW.	30	NW.	0	6	1	0	12	8	10	6	18	1	9	13	9	4	2	0	0	0	2	0	0	0	16	1	0	0	0	0	0	0	0	0	0	0	
April	9.8	N.	34	S.	0	16	5	2	14	7	5	4	6	0	8	9	13	9	5	5	4	1	0	1	2	7	3	0	0	0	0	0	0	0	0	0	0		
May	7.6	NW.	28	NW.	0	12	10	4	6	8	2	4	14	2	10	6	15	9	7	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	
June	5.0	SE.	22	S.	0	8	6	4	12	9	8	1	9	3	13	10	7	6	3	0	0	0	0	0	0	14	0	2	0	0	0	0	0	0	0	0	0		
July	5.5	NW.	24	SW.	0	9	9	2	9	6	10	4	12	1	10	15	6	6	5	0	0	0	0	0	0	9	0	8	0	0	0	0	0	0	0	0	0	0	
August	5.5	SW.	36	N.	0	6	7	2	9	7	12	2	14	3	7	9	15	13	13	0	0	0	0	1	0	4	0	9	0	0	0	0	0	0	0	0	0	0	
September	6.1	S.	20	S.	0	7	6	4	12	13	5	3	8	2	11	5	14	8	6	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0		
October	6.9	NW.	26	N.	0	3	2	2	15	14	5	2	19	0	14	10	7	4	4	2	0	0	0	3	0	0	0	7	0	0	0	0	0	0	0	0	0	0	
November	7.4	NW.	39	NW.	0	8	3	1	12	4	6	8	37	1	5	9	16	4	9	2	2	6	2	0	0	0	8	0	30	0	0	0	0	0	0	0	0	0	
December	7.3	NW.	24	NW.	0	1	6	2	9	7	7	6	24	0	12	5	14	6	4	8	6	0	1	19	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0
Year	7.0	NW.	36	N.	0	88	65	26	133	99	75	38	191	15	112	107	146	80	62	43	24	1	12	74	26	152	28	0	0	0	0	0	0	0	0	0	0	0	

CHARLESTON, S. C.

[H=48 ft.; h₁=11 ft.; h₂=76 ft.; h

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

CHARLOTTE, N. C.

[$\phi=35^{\circ} 13' N.$; $\lambda=80^{\circ} 51' W.$]

Month.	Pressure.			Temperature.							Moisture.										
	Monthly mean.	Extremes.		Mean.			Extremes.		Dew point.	Relative humidity.	Vapor pressure.		Precipitation.	Cloudiness.							
		Maximum.	Minimum.	8 a. m.	8 p. m.	Monthly.	Maximum.	Minimum.			8 a. m.	8 p. m.		8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.	
January.....	29.309	29.864	28.494	35.9	43.4	51.0	32.3	41.6	71	22	31	32	81	65	0.183	0.195	3.36	1.32	4.9	5.7	5.4
February.....	29.332	29.726	28.858	34.5	43.5	50.5	31.8	41.2	69	17	26	31	70	64	0.156	0.192	3.59	1.04	4.2	5.3	5.0
March.....	29.278	29.546	28.921	50.0	61.0	68.3	47.4	57.8	84	28	41	43	73	54	0.275	0.293	3.86	0.84	2.4	3.9	3.2
April.....	29.124	29.393	28.882	55.2	64.7	71.9	50.8	61.4	87	34	45	42	69	47	0.310	0.282	2.34	1.29	4.4	5.5	4.8
May.....	29.214	29.557	28.824	62.0	69.2	76.2	56.6	66.4	89	41	51	49	69	53	0.393	0.372	4.26	2.67	4.7	5.5	4.7
June.....	29.164	29.490	28.884	67.9	73.2	81.0	63.3	77.2	90	54	61	61	80	69	0.549	0.557	8.14	2.48	6.4	8.0	6.6
July.....	29.181	29.397	28.929	73.2	77.2	83.6	68.6	81.0	93	60	68	68	87	75	0.700	0.681	4.82	3.12	6.5	7.7	6.7
August.....	29.225	29.392	29.088	71.9	76.3	85.1	68.2	76.0	92	63	68	68	86	71	0.596	0.590	2.89	1.76	6.0	6.3	6.6
September.....	29.275	29.461	29.093	68.4	73.4	82.3	63.9	73.1	90	51	63	63	84	71	0.596	0.576	4.82	2.42	4.2	5.3	4.5
October.....	29.235	29.696	28.852	57.4	64.5	73.5	53.7	63.6	91	28	52	52	84	66	0.431	0.433	4.01	2.42	2.8	3.3	3.4
November.....	29.137	29.473	28.767	40.5	50.1	58.2	37.7	48.0	74	28	30	30	67	48	0.172	0.179	3.36	0.27	2.8	3.3	3.4
December.....	29.293	29.787	28.714	32.1	40.6	47.4	29.5	38.4	66	18	26	26	77	57	0.151	0.152	2.53	1.40	3.9	4.3	4.5
Year.....	29.231	29.864	28.494	54.1	61.4	69.3	50.3	59.8	93	17	47	47	77	62	0.383	0.383	40.28	2.67	4.5	5.1	4.9

CHATTANOOGA, TENN.

[$\phi=35^{\circ} 4' N.$; $\lambda=85^{\circ} 14' W.$]

January.....	29.374	29.910	28.704	35.8	43.7	49.8	31.8	40.8	67	13	28	31	73	61	0.167	0.187	3.28	1.68	6.2	5.5	6.4
February.....	29.385	29.652	28.836	34.7	44.0	49.9	32.0	41.0	64	16	28	30	74	58	0.168	0.182	4.23	1.56	5.4	5.9	5.8
March.....	29.327	29.541	29.110	49.0	66.2	71.5	47.9	59.7	86	27	40	40	73	41	0.264	0.268	3.93	0.68	3.7	4.6	4.4
April.....	29.174	29.446	28.897	52.8	63.9	69.6	49.7	59.6	85	32	44	44	73	53	0.303	0.311	3.30	1.36	5.5	6.9	6.0
May.....	29.253	29.562	28.947	58.7	68.5	74.5	55.7	65.1	86	44	52	51	78	58	0.393	0.301	8.08	1.61	5.1	6.1	5.3
June.....	29.194	29.354	28.937	66.1	74.6	80.9	62.9	71.9	89	50	60	62	81	67	0.523	0.569	6.65	2.29	5.4	6.9	5.9
July.....	29.212	29.385	28.976	72.1	78.1	85.0	69.5	77.2	91	62	68	68	86	73	0.681	0.700	4.06	1.01	6.1	7.3	6.8
August.....	29.236	29.400	29.122	70.4	79.3	86.8	67.5	77.2	92	63	66	67	86	67	0.634	0.662	1.09	1.42	3.7	5.5	4.9
September.....	29.300	29.478	29.129	67.7	76.1	84.0	65.4	74.8	91	54	64	65	86	70	0.583	0.630	1.89	1.05	4.4	4.9	5.3
October.....	29.279	29.741	28.962	55.6	66.2	74.3	53.4	63.8	89	28	51	51	84	60	0.400	0.411	2.29	1.22	3.2	3.9	4.5
November.....	29.252	29.496	28.912	39.6	50.7	57.2	37.1	47.2	70	27	32	32	74	50	0.186	0.196	1.54	1.12	2.7	3.9	4.3
December.....	29.372	29.847	28.660	31.7	40.2	45.1	29.1	37.1	62	19	25	29	76	64	0.144	0.166	5.00	3.30	5.2	5.0	6.1
Year.....	29.280	29.910	28.660	52.8	62.6	69.0	50.2	59.6	92	13	43	48	79	60	0.371	0.390	42.34	3.30	4.8	5.4	5.4

CHEYENNE, WYO.

[$\phi=41^{\circ} 8' N.$; $\lambda=104^{\circ} 48' W.$]

January.....	23.941	24.381	23.572	23.1	27.7	37.5	16.1	26.8	58	-10	11	15	60	59	0.072	0.086	0.29	0.14	3.4	4.7	5.3
February.....	23.919	24.277	23.478	19.3	27.5	35.6	10.9	23.2	59	-10	9	13	67	56	0.065	0.078	0.31	0.14	5.4	6.1	5.4
March.....	24.026	24.232	23.517	35.3	52.7	58.5	30.4	44.4	73	17	21	22	55	32	0.108	0.115	1.45	1.43	2.0	3.9	3.6
April.....	24.003	24.265	23.523	37.1	54.8	60.0	32.9	46.4	82	21	24	26	61	38	0.129	0.142	1.14	0.81	4.1	4.5	4.7
May.....	24.039	24.326	23.756	42.4	55.9	61.3	37.9	49.6	79	25	34	36	75	52	0.201	0.215	2.34	0.98	4.8	5.9	5.9
June.....	24.030	24.297	23.740	62.9	69.7	77.5	47.9	62.7	91	37	42	40	67	40	0.298	0.260	0.76	0.28	2.6	6.4	4.7
July.....	24.111	24.318	23.904	58.9	75.9	83.8	64.7	69.2	95	43	45	44	64	39	0.313	0.310	1.32	0.34	3.0	5.9	4.3
August.....	24.114	24.345	23.920	55.0	72.1	79.6	50.1	54.6	89	25	42	43	65	39	0.284	0.290	0.62	0.40	4.8	5.9	5.0
September.....	24.108	24.350	23.790	49.2	63.7	72.9	45.9	59.4	84	33	39	40	72	49	0.248	0.263	1.80	0.60	4.5	5.7	4.7
October.....	24.068	24.340	23.683	41.3	51.9	63.3	35.8	49.6	85	16	24	27	54	44	0.134	0.132	1.04	1.00	3.1	3.8	3.8
November.....	23.977	24.286	23.718	34.2	40.1	50.4	28.0	39.2	66	6	20	24	67	57	0.108	0.129	0.29	0.15	5.8	5.2	6.7
December.....	23.979	24.294	23.574	28.0	32.8	42.1	21.5	31.8	58	10	16	19	62	56	0.090	0.099	0.69	0.40	3.6	4.3	4.9
Year.....	24.026	24.381	23.478	39.7	52.1	60.2	34.3	47.3	95	-10	27	29	63	47	0.168	0.178	12.05	1.43	4.0	5.2	4.9

CHICAGO, ILL.

[$\phi=41^{\circ} 53' N.$; $\lambda=87^{\circ} 37' W.$]

January.....	29.173	29.796	28.382	24.3	27.0	31.6	19.7	25.6	46	-5	20	21	62	76	0.115	0.119	3.07	0.71	7.4	7.0	7.5
February.....	29.236	29.685	28.733	22.0	27.1	31.4	18.2	24.8	51	-6	16	20	76	72	0.098	0.115	0.89	0.52	6.0	4.8	6.6
March.....	29.168	29.413	28.841	43.7	50.3	56.6	40.5	48.6	81	26	35	37	71	62	0.212	0.237	0.29	0.24	3.8	2.7	3.2
April.....	29.009	29.375	28.567	46.8	51.5	59.7	42.7	51.2	86	26	39	42	75	73	0.246	0.284	3.84	0.97	5.0	5.6	5.4
May.....	29.139	29.612	28.798	51.0	54.6	60.1	46.8	53.4	78	38	45	43	80	67	0.309	0.283	4.67	1.34	5.8	5.5	5.5
June.....	29.128	29.328	28.771	65.2	70.0	75.0	61.4	68.2	91	43	57	53	75	57	0.474	0.421	0.91	0.41	4.7	3.3	3.2
July.....	29.068	29.394	28.872	72.1	77.7	82.8	69.1	76.0	97	62	63	62	74	60	0.591	0.561	1.79	0.54	4.7	3.8	4.2
August.....	29.131	29.393	28.863	69.0	75.8	80.0	66.6	73.3	89	53	60	62	74	64	0.529	0.561	5.08	1.81	5.9	4.4	5.0
September.....	29.194	29.525	28.872	61.9	66.7	70.9	55.5	65.2	85	49	56	61	81	75	0.460	0.492	3.90	1.41	6.2	4.8	5.1
October.....	29.108	29.520	28.831	52.8	58.9	64.3	50.8	58.6	84	27	47	49	83	68	0.348	0.369	1.79	1.10	3.8	3.0	3.9
November.....	29.105	29.393	28.746	35.4	37.4	42.0	36.0	43.0	67	20	27	29	78	72	0.150	0.165	1.31	0.83	6.9	6.3	6.7
December.....	29.196	29.806	28.727	24.4	28.7	32.1	20.6	26.4	43	7	20	21	80	72	0.108	0.115	1.32	0.71	5.5	6.1	6.2
Year.....	29.140	29.806	28.382	47.2	52.2	57.4	43.8	50.6	97	-6	40	42									

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

CINCINNATI, OHIO.
[$\phi=39^{\circ} 6' N.$; $\lambda=84^{\circ} 30' W.$]

Month.	Pressure.			Temperature.						Moisture.											
	Monthly mean.	Extremes.		Mean.		Extremes.		Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.							
		Maximum.	Minimum.	s. a. m.	s. p. m.	Maximum.	Minimum.		Monthly.	Maximum.	Minimum.	s. a. m.		s. p. m.	Total.	Maximum in 24 hours.	s. a. m.	s. p. m.	Daylight.		
																				In.	In.
January.....	29.447	29.134	28.843	29.5	33.9	39.3	24.7	32.0	62	1	25	27	83	74	0.144	0.151	3.71	1.60	7.8	6.7	7.6
February.....	29.493	29.876	29.140	26.0	34.3	39.3	21.8	30.6	56	1	20	25	78	67	.118	.141	4.70	1.95	6.2	4.8	6.3
March.....	29.427	29.626	29.212	45.4	59.6	65.4	42.7	54.0	87	21	34	37	66	44	.209	.231	.39	.29	4.3	2.7	3.9
April.....	29.251	29.631	28.913	49.0	60.4	65.7	44.3	55.0	84	31	39	41	69	52	.246	.274	1.65	.62	5.4	6.4	6.1
May.....	29.300	29.700	29.040	55.6	63.7	68.6	51.0	59.8	84	38	45	45	69	54	.323	.321	3.30	.78	5.5	6.3	6.5
June.....	29.309	29.526	28.908	65.3	75.2	80.4	60.4	70.4	95	43	56	56	71	54	.460	.476	3.01	1.76	3.7	6.0	5.2
July.....	29.291	29.543	29.038	72.1	79.9	84.7	68.4	76.6	93	58	65	66	79	65	.623	.655	3.62	1.10	6.0	6.7	6.3
August.....	29.368	29.574	29.230	68.3	79.4	85.2	64.1	74.6	93	54	59	59	73	51	.513	.508	1.26	.81	1.8	4.9	3.5
September.....	29.419	29.681	29.175	64.4	73.3	79.3	61.0	70.2	89	50	59	60	82	64	.513	.528	3.50	1.05	5.5	5.1	5.6
October.....	29.390	29.752	28.957	52.9	62.6	70.6	49.5	60.0	89	29	47	49	80	61	.348	.371	5.78	4.30	3.2	2.6	3.7
November.....	29.338	29.593	28.923	34.6	43.2	48.2	32.3	40.2	70	23	27	29	73	57	.148	.164	1.35	1.06	6.2	5.5	6.5
December.....	29.465	30.069	28.933	27.0	31.5	36.3	22.9	29.6	57	14	22	23	78	69	.118	.124	2.15	1.10	7.3	6.8	7.2
Year.....	29.380	30.134	28.843	49.2	58.1	63.6	45.3	54.4	95	1	42	43	75	59	.314	.329	34.42	4.30	5.2	5.4	5.7

CLEVELAND, OHIO.
[$\phi=41^{\circ} 30' N.$; $\lambda=81^{\circ} 42' W.$]

January.....	29.231	29.900	28.444	25.5	27.4	32.0	21.3	26.6	46	4	21	24	83	85	0.119	0.131	4.29	0.99	8.6	8.4	8.8
February.....	29.284	29.746	28.855	20.8	26.0	31.4	16.2	23.8	50	1	16	19	79	74	.098	.110	3.98	.86	6.1	6.1	7.0
March.....	29.241	29.502	28.851	40.3	47.3	54.2	35.9	44.6	83	22	32	35	72	64	.186	.212	.41	.13	4.0	4.7	4.5
April.....	29.181	29.483	28.664	44.9	51.3	56.0	40.4	48.2	79	32	38	40	80	68	.242	.263	3.34	1.33	5.7	5.6	5.9
May.....	29.181	29.579	28.777	51.3	56.8	60.6	47.3	54.0	79	36	44	47	79	73	.310	.344	4.22	1.16	5.9	5.5	5.5
June.....	29.147	29.402	28.786	61.1	67.0	70.5	56.8	63.6	84	41	54	56	79	70	.429	.461	2.01	.77	4.7	4.4	4.6
July.....	29.129	29.417	28.912	70.9	75.3	79.5	65.2	72.4	90	56	62	63	76	66	.563	.577	9.4	.49	3.4	4.3	3.8
August.....	29.129	29.439	28.915	66.4	73.3	78.0	62.0	70.0	89	50	58	59	74	62	.485	.516	1.08	.70	3.0	4.5	4.1
September.....	29.270	29.546	28.973	60.5	64.6	71.3	58.0	64.6	88	46	55	58	83	74	.443	.492	4.09	1.78	5.6	4.6	4.9
October.....	29.198	29.562	28.703	52.3	57.3	63.5	48.7	56.1	84	33	46	48	78	72	.330	.360	3.79	2.05	4.7	4.6	4.8
November.....	29.093	29.439	28.661	35.0	37.8	41.5	32.7	37.1	63	25	28	29	75	71	.158	.160	3.08	.80	8.8	9.2	9.2
December.....	29.243	29.821	28.619	24.3	26.5	30.7	20.5	25.6	47	12	18	19	73	73	.098	.106	2.42	.58	8.8	8.2	8.3
Year.....	29.192	29.900	28.444	46.0	51.1	55.7	42.1	48.9	90	1	39	41	78	71	.289	.311	33.65	2.05	5.8	5.9	6.0

COLUMBIA, MO.
[$\phi=38^{\circ} 57' N.$; $\lambda=92^{\circ} 20' W.$]

January.....	29.267	29.778	28.668	32.8	38.6	43.8	21.8	30.2	62	0	26	26	76	76	0.144	0.144	2.36	1.48	4.6	4.6	5.1
February.....	29.308	29.647	28.925	30.6	37.5	43.5	17.5	27.5	63	2	23	23	72	72	.127	.127	1.09	.29	3.4	3.4	4.2
March.....	29.246	29.490	28.921	59.3	69.2	75.3	42.5	55.8	90	20	30	30	60	60	.257	.257	.04	.42	1.4	1.4	1.4
April.....	29.082	29.318	28.717	56.6	64.5	71.3	43.6	54.0	91	27	37	37	60	60	.325	.325	3.82	1.69	4.3	5.5	5.5
May.....	29.174	29.503	28.848	62.2	68.7	74.9	49.6	59.2	85	37	50	50	68	68	.381	.381	6.82	2.70	4.1	5.0	5.0
June.....	29.152	29.327	28.944	74.0	80.2	86.6	59.6	69.9	91	47	62	62	70	70	.569	.569	5.67	2.78	3.0	3.1	3.1
July.....	29.110	29.337	28.962	75.2	83.9	91.5	65.5	76.2	96	56	72	72	70	70	.678	.678	5.25	2.40	3.1	3.2	3.2
August.....	29.160	29.354	28.913	76.0	84.7	93.8	63.8	74.2	98	40	58	60	74	74	.454	.454	4.40	2.31	2.8	3.4	3.4
September.....	29.209	29.481	28.845	68.1	76.6	85.5	58.5	67.6	89	42	56	56	72	72	.567	.567	10.36	2.98	4.0	4.7	4.7
October.....	29.211	29.576	28.777	58.8	70.5	78.5	46.5	53.5	87	20	32	32	62	61	.233	.233	.67	.30	1.6	2.3	2.3
November.....	29.210	29.490	28.823	41.7	51.8	59.3	40.6	47.5	75	19	28	28	58	58	.158	.158	.33	.19	1.9	3.7	3.7
December.....	29.291	29.794	28.884	32.8	40.1	47.5	30.3	37.5	51	8	22	22	63	63	.120	.120	.81	.72	3.0	3.7	3.7
Year.....	29.202	29.794	28.668	55.9	64.0	72.9	43.3	53.7	93	2	45	45	76	76	.359	.359	42.22	2.98	3.1	3.8	3.8

COLUMBIA, S. C.
[$\phi=34^{\circ} 0' N.$; $\lambda=81^{\circ} 3' W.$]

January.....	29.790	30.363	28.906	38.2	47.9	55.0	35.6	45.3	75	20	32	31	77	53	0.190	0.186	2.81	1.95	5.5	4.9	6.2
February.....	29.800	30.158	29.384	37.2	47.8	55.0	35.7	45.4	74	21	30	32	74	60	.185	.210	6.98	4.29	5.3	5.7	5.8
March.....	29.727	29.989	29.423	50.5	64.3	71.3	48.4	59.8	87	28	44	41	78	47	.308	.284	.76	.44	2.5	2.8	4.0
April.....	29.583	29.938	29.326	56.4	67.0	75.3	51.9	63.6	91	34	47	41	71	43	.336	.285	.78	.57	4.8	3.7	5.2
May.....	29.657	29.994	29.249	64.9	72.6	80.5	59.4	70.0	91	45	56	52	74	52	.462	.402	2.20	.63	5.5	5.0	5.1
June.....	29.600	29.819	29.336	70.0	75.1	84.2	65.7	75.0	93	54	64	62	81	68	.608	.596	6.64	1.93	5.3	7.5	6.5
July.....	29.625	29.871	29.362	74.6	78.9	87.9	70.3	79.1	94	60	70	70	84	74	.725	.725	5.25	1.72	6.0	8.3	6.7
August.....	29.645	29.816	29.309	73.4	78.5	87.1	69.9	78.5	95	65	70	69	82	75	.729	.710	8.20	2.12	6.9	6.0	6.1
September.....	29.703	29.866	29.518	69.1	75.3	85.5	65.8	75.6	95	50	65	66	86	73	.625	.638	5.17	2.46	4.6	3.6	5.1
October.....	29.670	29.174	29.177	59.1	67.3	76.8	55.7	66.2	91	29	54	55	83	66	.450	.470	3.01	1.51	2.1	2.2	3.0
November.....	29.601	29.951	29.262	43.7	54.4	63.4	40.0	51.7	77	30	34	36	69	62	.205	.229	.59	.29	2.2	2.1	3.2
December.....	29.771	30.239	29.194	34.9	44.7	52.4	32.4	42.4	71	20	28	31	75	58	.165	.183	1.30	.51	4.0	3.7	4.0
Year.....	29.681	30.363	28.906	56.0	64.5	72.9	52.6	62.7	95	20	50	49	78	60	.415	.410	43.69	4.23	4.7	4.6	5.1

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

CHARLOTTE, N. C.

[H=773 ft.; h₁=68 ft.; h₂=60 ft.; h₃=76 ft.]

Month.	Wind.										Number of days.																	
	By self-register.				Number of winds, 8 a. m. and 8 p. m.						Precipitation.	Snow.	Maximum temp.	Electricity.														
	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	North.	Northeast.	East.	Southeast.	South.	Southwest.					West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	T. or more.	0.01 inch or more, melted.	Hail.	Fog.	32° or below.	99° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	8.2	SW.	30	SW.	0	6	12	5	5	4	20	6	4	0	14	4	13	11	7	3	3	0	4	0	0	16	0	0
February	8.7	NE.	32	SW.	0	3	17	4	1	8	14	6	3	0	14	2	12	10	2	2	2	0	5	0	0	16	0	0
March	7.1	S.	22	NW.	0	8	13	3	3	15	14	9	4	0	11	11	8	10	8	0	0	0	0	0	0	3	0	0
April	7.7	SW.	30	SW.	0	4	13	3	3	13	14	9	4	0	11	11	8	10	8	0	0	0	0	0	0	0	0	0
May	7.3	SW.	29	W.	0	4	15	4	4	6	20	6	3	0	13	10	8	10	8	0	0	0	0	0	0	0	0	0
June	5.8	SW.	28	W.	0	4	6	8	6	9	13	9	5	0	5	9	16	16	16	0	0	0	0	0	0	0	10	0
July	6.8	SW.	46	NW.	1	3	7	2	3	10	27	10	0	0	5	8	18	13	11	0	0	1	0	0	5	0	16	0
August	5.3	NE.	28	S.	0	3	23	9	8	6	10	0	2	1	4	14	13	12	10	0	0	0	2	0	4	0	9	0
September	5.0	NE.	32	NE.	0	2	30	6	6	2	8	4	1	1	10	15	5	11	10	0	0	0	2	0	1	0	6	0
October	6.4	NE.	22	SW.	0	11	13	8	9	5	11	3	2	0	18	5	8	8	6	0	0	0	5	0	1	2	1	0
November	6.3	NW.	30	SW.	0	9	12	3	0	6	13	4	13	0	16	10	4	4	4	0	0	0	1	0	0	5	0	0
December	6.4	NW.	33	NW.	0	6	12	5	3	11	8	6	9	2	14	9	8	8	5	3	1	0	3	0	0	21	1	0
Year	6.8	NE.	46	NW.	1	60	173	60	54	95	168	67	47	6	144	102	119	118	97	8	5	2	23	0	11	63	56	0

CHATTANOOGA, TENN.

[H=762 ft.; h₁=189 ft.; h₂=167 ft.; h₃=213 ft.]

January	8.9	SW.	42	SW.	1	4	7	6	7	9	13	6	10	0	9	4	18	11	7	3	3	0	5	0	0	16	0	0		
February	10.3	N.	40	W.	1	13	8	0	11	10	2	7	7	5	0	10	5	13	10	7	2	2	0	2	0	0	16	0	0	
March	7.0	W.	35	NW.	0	9	9	2	2	4	12	14	10	0	14	9	8	4	3	0	1	5	0	0	0	0	2	0	0	
April	9.7	SW.	55	NW.	3	4	3	1	4	8	19	12	9	0	11	9	15	12	6	3	2	1	0	0	0	0	4	0	0	
May	8.6	SW.	36	SW.	0	6	11	4	4	5	13	12	7	0	11	9	11	16	14	0	0	0	0	0	0	0	11	0	0	
June	6.9	W.	42	SW.	1	9	11	4	7	6	7	12	4	0	7	13	10	18	15	0	0	1	0	0	0	0	0	15	0	0
July	7.0	SW.	36	S.	0	8	4	0	5	7	24	12	2	0	4	11	16	20	13	0	0	0	0	0	0	0	0	20	0	0
August	5.5	NE.	35	NW.	0	12	15	2	9	3	6	11	4	0	11	11	9	12	5	0	0	0	6	0	4	0	10	0	0	
September	5.8	S.	33	N.	0	7	10	2	2	14	8	11	6	0	6	18	6	11	7	0	0	0	4	0	1	0	12	0	0	
October	7.4	NW.	33	NW.	0	11	10	3	7	3	5	8	15	0	20	5	6	7	6	1	0	0	7	0	0	0	2	0	0	
November	7.8	NW.	35	NW.	0	8	8	1	1	2	8	11	21	0	14	8	8	6	5	0	0	0	6	0	0	0	7	3	0	
December	8.3	NW.	37	NW.	0	3	8	4	7	6	8	8	8	0	9	8	14	13	8	4	1	1	7	1	0	22	1	0	0	
Year	7.8	SW.	55	NW.	6	94	104	29	66	77	125	124	111	0	124	107	134	140	96	16	8	4	42	1	6	67	81	0	0	

CHEYENNE, WYO.

[H=6,988 ft.; h₁=56 ft.; h₂=49 ft.; h₃=64 ft.]

January	13.7	NW.	60	W.	5	5	1	2	3	3	8	14	25	1	9	14	8	5	4	8	5	0	4	9	0	27	0	0	0	
February	12.6	NW.	50	NW.	4	10	1	0	3	5	8	12	17	0	7	12	9	3	3	9	5	0	0	11	0	0	0	0	0	0
March	11.2	NW.	56	W.	5	8	2	2	1	8	7	14	20	0	15	13	3	5	1	4	2	0	0	0	0	0	15	0	0	0
April	11.8	NW.	50	NW.	2	12	3	2	3	4	7	9	20	0	11	14	5	5	4	5	3	0	0	0	0	0	13	0	0	0
May	10.1	NW.	37	NW.	0	6	8	3	4	9	4	7	21	0	8	12	11	12	10	4	3	1	2	0	0	6	7	0	0	
June	10.1	NW.	40	SW.	1	8	2	3	6	16	2	10	13	0	9	17	4	9	7	0	0	0	0	0	1	0	11	0	0	
July	8.1	NW.	40	W.	1	6	2	4	4	13	5	7	19	2	10	18	3	11	6	0	0	1	0	0	5	0	13	0	0	
August	8.6	S.	40	NW.	1	5	4	2	2	17	9	6	16	1	7	20	4	7	3	0	0	1	0	0	0	2	9	0	0	
September	8.8	W.	46	NW.	1	6	4	1	2	14	5	15	13	0	10	15	5	12	9	0	0	2	0	0	0	0	8	0	0	
October	11.0	NW.	40	NW.	1	6	2	0	3	4	5	12	30	0	14	14	3	5	2	3	3	0	0	2	0	7	0	0	0	
November	11.2	W.	54	W.	5	5	3	2	1	6	11	15	17	0	5	13	12	4	3	10	4	0	0	1	0	23	0	0	0	
December	11.5	NW.	60	W.	3	10	2	0	2	4	6	13	25	0	12	11	8	4	4	4	4	0	0	5	0	29	0	0	0	
Year	10.7	NW.	60	W.	29	87	34	21	34	103	77	134	236	4	117	173	75	82	56	47	29	5	6	28	6	150	49	0	0	

CHICAGO, ILL.

[H=823 ft.; h₁=140 ft.; h₂=133 ft.; h₃=310 ft.]

January	15.7	W.	48	W.	2	3	5	4	2	8	12	16	12	0	5	6	20	13	10	16	12	0	3	15	0	28	0	0	0
February	16.2	SW.	48	W.	1	4	4	2	3	2	12	15	14	0	6	9	13	6	4	14	6	0	0	14	0	27	0	0	0
March	14.7	SW.	50	W.	3	8	6	0	4	12	17	8	7	0	18	11	2	3	3	0	1	0	0	0	6	3	0	0	0
April	14.6	SW.	40	NW.	2	9	9	3	10	10	11	5	3	0	15	6	13	14	11	7	0	0	0	0	0	0	4	0	0
May	13.5	NE.	50	NE.	3	10	15	6	5	9	6	4	6	0	19	8	3	4	4	1	0	2	0	3	0	2	0	0	0
June	10.6	N.	50	W.	1	18	12	8	3	2	6	4	6	0	13	16	2	8	6	0	0	0	0	6	0	7	0	0	0
July	11.8	SW.	43	W.	11	7	8	9	4	14	7	2	0	0	19	8	3	4	4	1	0	2	0	0	0	3	0	0	0
August	10.6	SW.	35	SE.	2	5	9	6	6	16	12	8	0	0	10	15	6	6	6	0	0	1	0	0	0	0	3	0	0
September	10.6	SW.	35	SE.	0	7	9	3	8	10	9	9	5	0	12	7	11	9	9	0	0	0	2	0	0	0	5	0	0
October	11.2	SW.	46	W.	2	7	4	0	4	12	19	8	8	0	14	12	5	7	5	2	0	0	0	0	0	2	1	0	0
November	13.0	W.	39	S.	0	2	1	4	1	11	2	22	17	0	5	10	15	12	7	7	3	0	0	4	0	21	2	0	0
December	14.6	W.	37	S.	0	2	4	0	5	12	9	17	13	0	8	8	15	11	6	19	11	0	0	16	0	30	0	0	0
Year	13.2	SW.	60	NE.	17	86	86	44	60	108	129	128	89	0	129	121	115	106	83	69	39	2	8	49	9	116	31	0	0

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

CINCINNATI, OHIO.

[H=628 ft.; h₁=152 ft.; h₂=145 ft.; h₃=160 ft.]

Month.	Wind.										Number of days.																	
	By self-register.					Number of winds, 8 a. m. and 8 p. m.					Precipitation.	Snow.	Thunderstorms.	Electricity.														
	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northeast.	East.	South.	Southeast.					West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.		0.01 inch or more, melted.	Hall.	Fog.	Maximum temp.		Minimum temperature 32° or below.
																					32° or below.	90° or above.						
January	7.7	SE.	43	W.	1	4	2	4	22	2	11	10	7	0	4	7	20	16	12	11	9	0	1	8	0	22	0	0
February	7.6	SE.	25	NW.	0	2	4	5	16	1	10	7	7	0	0	16	8	7	2	2	1	0	0	0	0	24	0	0
March	6.0	SW.	27	NW.	0	5	8	5	11	4	15	7	7	0	0	16	8	7	2	2	1	0	0	0	6	2	2	
April	7.0	SE.	30	SW.	0	6	7	7	17	0	10	6	9	1	9	7	14	12	10	4	1	0	0	0	0	2	2	
May	6.9	SE.	29	SW.	0	4	7	5	12	2	10	9	11	2	6	13	13	12	10	0	0	0	0	0	0	4	4	
June	5.7	N.	26	W.	0	10	10	6	6	9	5	9	10	1	1	7	16	7	7	6	0	0	0	0	0	0	0	
July	5.6	SW.	29	W.	0	4	8	7	13	2	17	6	4	4	1	7	10	14	11	7	0	0	0	0	0	0	12	
August	5.0	SE.	24	NW.	0	9	9	7	20	0	6	6	4	2	2	16	13	2	4	4	0	0	0	0	0	2	2	
September	5.2	SE.	24	W.	0	9	9	9	17	2	10	4	4	4	0	9	12	9	9	0	0	0	0	0	0	0	0	
October	5.8	SW.	26	SW.	0	12	10	4	12	11	8	8	0	0	0	18	6	7	9	0	1	0	0	0	0	0	2	
November	7.6	W.	30	SW.	0	0	0	5	5	9	0	0	21	15	0	8	8	14	6	4	2	1	0	0	0	14		
December	8.0	SE.	24	N.	0	4	4	3	15	0	11	13	10	0	5	20	10	7	16	8	0	1	10	0	29	2	0	
Year	6.5	SE.	43	W.	1	60	74	71	171	18	122	109	98	7	114	110	141	107	86	44	25	1	12	28	21	99	39	0

CLEVELAND, OHIO.

[H=762 ft.; h₁=190 ft.; h₂=163 ft.; h₃=201 ft.]

January	15.9	S.	54	SE.	5	6	4	1	13	14	8	9	7	0	1	5	25	23	16	24	19	0	0	0	30	0	0
February	17.0	S.	48	N.	7	7	3	1	13	12	8	5	7	0	6	6	16	14	13	17	12	0	3	15	0	26	0
March	14.0	SE.	46	W.	5	7	9	3	15	9	7	8	4	0	12	14	5	6	4	5	3	0	3	3	0	13	2
April	14.0	SE.	48	NE.	1	6	8	3	18	9	2	9	5	0	9	5	16	13	8	5	2	1	1	0	0	1	1
May	13.2	N.	46	S.	4	13	5	1	12	10	5	12	4	0	8	13	10	15	11	0	0	0	0	0	0	0	4
June	9.5	W.	36	N.	0	9	16	1	5	7	10	8	4	0	15	6	9	9	7	0	0	1	1	0	0	0	3
July	11.4	N.	54	N.	1	14	11	3	11	14	4	5	0	0	17	12	2	9	5	0	0	0	1	0	1	0	
August	12.7	SE.	45	W.	1	8	14	2	22	9	3	4	2	0	15	12	4	6	6	0	0	0	0	0	0	0	
September	11.2	N.	36	N.	0	11	11	6	15	8	2	4	3	0	11	11	8	11	6	0	0	0	0	0	0	0	
October	15.5	SE.	54	W.	4	6	5	0	18	14	7	5	7	0	15	7	6	6	3	0	0	0	0	0	0	0	
November	18.9	W.	55	W.	6	3	2	1	3	9	5	12	22	6	0	1	0	7	19	14	17	10	0	0	0	14	
December	16.9	SW.	55	NW.	3	5	3	0	12	11	18	4	9	0	1	7	23	19	16	24	18	0	0	19	0	31	
Year	14.2	SE.	55	W.	37	92	90	24	163	122	86	95	58	0	111	98	156	150	112	95	64	2	9	53	1	115	

COLUMBIA, MO.

[H=784 ft.; h₁=11 ft.; h₂=3 ft.; h₃=84 ft.]

January	9.6	E.	40	W.	1	2	2	5	5	4	5	0	2	0	12	8	11	9	5	7	5	0	2	11	0	26	0
February	9.6	SE.	38	SW.	0	3	0	4	6	4	1	3	3	0	0	13	7	8	8	9	6	0	0	10	0	27	0
March	8.8	S.	34	S.	0	4	0	1	3	6	10	5	2	0	27	2	2	5	3	1	1	0	0	0	0	5	
April	9.6	W.	36	S.	0	2	1	4	3	3	7	8	2	0	10	7	13	15	11	7	7	1	0	0	1	4	
May	8.4	W.	33	SW.	0	4	4	3	5	2	3	4	6	0	12	8	11	15	11	0	0	1	0	0	0	0	
June	5.6	E.	28	E.	0	3	7	4	3	5	2	1	3	2	20	3	7	11	8	0	0	0	1	0	1	0	
July	6.0	S.	42	N.	2	3	3	7	4	8	1	0	0	5	0	19	8	4	8	0	0	1	0	0	0	8	
August	5.6	S.	39	SW.	0	5	2	6	6	4	6	3	0	2	6	0	19	7	5	8	6	0	0	0	0	6	
September	6.0	S.	28	S.	0	5	1	7	3	8	3	0	0	0	15	2	13	12	11	0	0	1	0	0	0	9	
October	6.9	S.	30	NW.	0	2	2	3	7	7	3	2	4	1	24	1	6	5	4	2	0	0	0	0	0	2	
November	8.5	NW.	33	NW.	0	2	4	4	9	1	12	5	7	0	17	7	6	3	3	0	0	0	1	0	20	0	
December	8.7	W.	33	NW.	0	1	3	1	7	3	2	9	5	0	18	4	9	3	2	4	1	0	0	7	0	29	
Year	7.8	S.	42	N.	3	38	29	49	55	56	39	45	53	3	206	64	95	102	80	30	3	3	29	18	113		

COLUMBIA, S. C.

[H=351 f.; h₁=41 f.; h₂=32 ft.; h₃=57 ft.]

January	8.6	SW.	42	SW.	1	7	12	4	2	6	15	8	4	4	7	13	11	10	8	1	0	1	2	0	0	12	1
February	8.5	NE.	41	W.	5	14	5	3	3	13	6	2	10	0	9	8	9	8	3	0	0	0	3	0	0	12	4
March	6.3	S.	25	NE.	0	9	9	11	1	14	9	6	2	1	17	9	5	4	0	0	0	0	0	0	0	2	
April	8.0	SW.	33	SW.	0	9	5	1	4	7	20	13	0	0	8	13	9	6	4	0	0	0	1	0	1	0	
May	7.5	SW.	52	SW.	1	7	13	3	1	10	14	12	1	1	9	14	8	10	8	0	0	0	1	0	2	0	
June	6.2	S.	30	SW.	0	3	4	8	1	16	14	9	5	0	6	9	15	17	17	0	0	0	0	0	6		
July	6.5	SW.	26	SW.	0	2	6	2	3	5	33	7	2	2	2	18	12	15	13	0	0	0	0	0	12		
August	5.7	NE.	28	NE.	0	2	18	16	5	10	8	3	0	0	5	19	7	14	12	0	0	0	0	0	8		
September	5.4	NE.	25	NE.	0	2	19	11	6	2	13	4	2	1	8	17	5	9	7	0	0	0	0	0	6		
October	6.4	NE.	25	S.	0	12	15	4	5	6	8	6	0	0	20	8	3	5	5	0	0	0	5	0	1		
November	6.5	W.	34	SW.	0	6	12	2	2	3	10	15	9	9	1	18	8	4	6	4	0	0	2	0	0		
December	7.2	W.	33	SW.	0	6	6	7	2	3	12	15	9	2	16	9	6	7	6	1	0	6	2	0	0		
Year	6.9	SW.	52	SW.	3	70	133	74	35	85	169	101	49	14	124	145	96	112	95	2	0	1	20	0	34		

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

COLUMBUS, OHIO.

[$\phi=39^{\circ} 58' N.$; $\lambda=83^{\circ} W.$]

Month.	Pressure.			Temperature.						Moisture.											
	Monthly mean.	Extremes.		Mean.			Extremes.		Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.						
		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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
January.....	In. 29.213	In. 29.872	In. 28.562	26.4	28.8	34.7	21.8	28.2	52	-3	24	23	87	75	0.135	0.131	5.11	1.26	7.8	7.5	8.0
February.....	29.291	29.867	28.910	22.4	29.0	34.5	18.0	26.2	49	1	18	21	81	72	.109	.121	5.05	1.50	6.2	5.2	6.1
March.....	29.210	29.430	28.923	41.9	54.9	61.2	39.0	50.1	54	11	34	33	73	45	.212	.198	.28	.28	5.6	1.3	4.0
April.....	29.044	29.426	28.753	46.2	56.4	63.4	41.9	52.6	51	29	34	38	74	56	.236	.250	2.52	.85	6.3	4.9	5.2
May.....	29.149	29.534	28.807	52.5	59.4	66.0	48.2	57.1	52	32	33	44	66	74	.305	.328	4.10	1.61	5.2	6.7	5.0
June.....	29.104	29.335	28.760	63.4	71.2	78.2	58.5	68.4	94	41	55	58	75	64	.448	.503	2.93	1.82	6.7	5.7	5.4
July.....	29.094	29.343	28.968	69.7	77.6	84.6	65.7	75.2	94	55	63	63	79	62	.582	.584	2.40	1.20	5.3	3.8	5.4
August.....	29.171	29.372	28.955	66.0	77.3	84.6	62.2	73.4	94	51	57	57	72	51	.475	.479	.42	.31	1.9	3.3	3.5
September.....	29.223	29.487	28.968	61.5	69.7	77.1	58.2	67.0	88	46	56	57	84	65	.475	.479	3.66	1.25	6.0	3.8	5.6
October.....	29.176	29.511	28.754	50.8	59.5	68.0	47.5	57.8	88	27	45	46	81	64	.324	.331	5.22	3.18	3.3	2.0	3.5
November.....	29.090	29.396	28.733	33.3	38.6	43.0	31.1	37.0	66	23	27	28	77	67	.148	.156	.79	.30	7.7	5.2	7.2
December.....	29.222	29.816	28.641	24.6	28.4	32.7	20.3	26.5	53	12	20	22	80	76	.109	.120	2.31	.96	7.3	6.7	7.9
Year.....	29.163	29.872	28.562	46.6	54.3	60.7	42.7	51.7	94	-3	40	41	78	63	.296	.307	34.79	3.18	5.6	5.0	5.6

CONCORD, N. H.

[$\phi=43^{\circ} 12' N.$; $\lambda=71^{\circ} 32' W.$]

January.....	29.773	30.511	29.145	21.8	34.4	17.0	25.7	50	-10	12	66	66	0.091	4.10	1.06	5.9	6.4
February.....	29.731	30.451	29.225	16.0	32.7	10.7	21.7	56	-14	10	77	77	.085	4.77	1.16	4.9	5.1
March.....	29.734	30.169	29.069	33.6	43.3	27.8	38.0	73	11	22	64	64	.126	1.28	.68	5.1	5.4
April.....	29.637	30.105	29.202	44.7	50.1	37.8	48.2	80	25	36	74	74	.228	3.20	1.12	5.3	6.2
May.....	29.041	30.097	29.146	53.6	65.5	43.7	54.8	86	29	43	70	70	.293	1.61	.47	6.7	7.0
June.....	29.595	29.887	29.098	61.4	73.0	51.4	62.2	89	33	52	74	74	.410	3.47	1.06	5.8	6.2
July.....	29.566	29.892	29.323	68.9	83.3	57.8	70.6	96	43	59	72	72	.509	.91	.23	3.8	4.5
August.....	29.750	30.090	29.371	62.9	77.6	53.7	65.6	87	42	56	78	78	.451	1.49	.73	4.2	4.7
September.....	29.795	30.040	29.488	54.7	70.9	47.2	59.0	83	33	50	84	84	.370	3.06	1.15	4.9	5.4
October.....	29.662	30.161	29.206	45.6	60.7	38.7	49.7	85	19	39	78	78	.251	1.03	.44	5.8	4.9
November.....	29.452	30.061	29.078	33.6	43.0	30.0	36.5	56	15	29	81	81	.160	2.60	1.12	6.2	6.9
December.....	29.650	30.412	29.045	17.9	29.6	11.6	20.6	49	-4	13	81	81	.090	2.47	.99	5.5	5.9
Year.....	29.666	30.511	29.045	42.9	56.5	35.6	46.0	96	-14	35	75	75	.255	30.19	1.16	5.3	5.7

CONCORDIA, KANS.

[$\phi=39^{\circ} 35' N.$; $\lambda=97^{\circ} 41' W.$]

January.....	28.628	29.044	27.838	21.1	28.2	33.7	17.3	25.5	54	-10	17	22	83	75	0.100	0.120	0.59	0.49	3.9	4.5	5.6
February.....	28.647	29.003	28.113	21.7	31.3	39.1	17.0	28.0	65	-1	18	24	82	72	.100	.130	.02	.02	4.6	4.2	4.7
March.....	28.566	28.923	28.129	42.8	63.4	71.4	39.8	55.6	89	26	33	36	70	40	.193	.223	T.	T.	2.3	2.8	2.7
April.....	28.458	28.814	27.867	45.9	68.6	69.8	43.6	56.7	94	29	35	35	67	38	.214	.219	.59	.41	4.5	4.3	4.5
May.....	28.543	28.923	28.133	51.7	63.1	67.7	48.8	58.2	86	33	46	49	82	65	.319	.364	3.56	3.27	6.7	6.0	6.2
June.....	28.504	28.744	28.201	64.8	77.6	82.3	61.0	71.6	95	50	56	58	75	52	.466	.492	1.60	.79	5.7	4.1	5.5
July.....	28.473	28.793	28.208	70.8	84.9	91.4	66.5	79.0	106	56	62	62	74	47	.556	.556	1.54	1.04	4.9	4.7	5.1
August.....	28.624	28.852	28.236	65.3	78.6	84.2	62.9	73.6	98	44	61	65	86	64	.553	.628	7.57	3.52	6.4	4.9	5.6
September.....	28.560	28.943	28.197	60.1	71.0	78.5	57.8	68.2	94	38	56	60	85	70	.456	.537	1.59	.54	6.1	4.9	5.0
October.....	28.562	28.987	28.139	48.0	62.5	73.1	45.7	59.4	88	24	41	44	77	54	.273	.308	.37	.25	2.4	1.9	3.5
November.....	28.586	29.061	28.083	33.5	44.3	54.0	28.8	41.4	79	15	26	29	74	56	.142	.161	.15	.15	4.4	3.8	5.3
December.....	28.656	29.154	28.189	25.7	33.3	40.1	22.4	31.2	56	8	21	25	81	70	.112	.132	.16	.07	4.5	4.6	5.6
Year.....	28.559	29.154	27.838	46.0	58.5	65.4	42.6	54.0	106	-10	39	42	78	59	.290	.322	22.74	3.52	4.7	4.2	4.9

CORPUS CHRISTI, TEX.

[$\phi=27^{\circ} 49' N.$; $\lambda=97^{\circ} 25' W.$]

January.....	30.152	30.584	29.791	52.9	59.3	64.8	50.5	57.6	73	30	48	50	86	74	0.367	0.386	0.83	0.37	4.0	3.5	4.5
February.....	30.109	30.634	29.734	50.7	56.5	62.4	46.8	54.6	75	26	46	49	82	77	.335	.375	.66	.60	6.2	4.1	5.5
March.....	30.078	30.271	29.731	62.7	69.0	73.9	61.1	67.5	87	48	59	69	88	72	.510	.510	2.06	2.06	4.9	2.8	3.6
April.....	29.976	30.189	29.585	66.2	73.2	77.3	64.1	70.7	91	54	58	60	78	68	.520	.555	2.58	1.89	5.0	4.0	4.1
May.....	29.934	30.142	29.651	72.6	77.5	80.7	70.5	75.6	88	61	68	69	85	76	.683	.708	4.05	1.58	4.4	4.6	4.5
June.....	29.905	30.662	29.628	76.9	81.3	85.9	75.0	80.4	95	68	71	72	83	74	.766	.789	.94	.58	2.1	2.2	2.3
July.....	29.890	30.655	29.772	79.3	83.6	87.5	77.1	82.3	94	73	75	74	89	76	.859	.851	.16	.14	2.3	2.5	2.3
August.....	29.810	30.641	29.764	79.3	83.2	87.9	76.8	82.4	94	73	75	74	89	75	.859	.854	2.76	1.25	5.0	3.4	4.3
September.....	29.959	30.110	29.782	76.9	81.4	85.6	75.8	80.7	91	70	73	74	88	78	.812	.837	6.09	4.44	3.0	3.3	3.3
October.....	29.999	30.541	29.688	65.9	73.8	79.5	72.0	79.2	91	45	59	62	80	69	.547	.611	.17	.11	4.0	2.9	3.9
November.....	30.017	30.359	29.820	62.9	69.0	74.7	60.8	67.8	85	45	58	60	86	75	.518	.551	.29	.26	4.7	3.2	4.8
December.....	30.122	30.491	29.757	56.5	61.8	67.8	54.3	61.0	81	44	51	53	82	75	.402	.427	.98	.71	4.3	3.9	5.4
Year.....	30.007	30.584	29.585	66.7	72.4	77.3	64.8	71.0	94	26	62	63	85	74	.598	.621	21.57	4.44	4.2	3.4	4.1

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

DAVENPORT, IOWA.

[$\phi=41^{\circ}30' N.$; $\lambda=90^{\circ}38' W.$]

Month.	Pressure.			Temperature.							Moisture.										
	Monthly mean.	Extremes.		Mean.			Extremes.		Dew point.	Relative humidity.		Vapor pressure.	Precipitation.	Cloudiness.							
		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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
January.....	In. 29.429	In. 30.046	In. 28.547	19.1	23.6	28.7	13.7	21.2	45	-13	16	20	89	83	0.102	0.111	1.69	0.77	4.8	5.6	6.3
February.....	29.493	29.966	28.773	17.7	23.9	29.7	12.2	21.0	52	-8	14	18	83	76	.087	.103	.59	.30	5.1	4.2	4.7
March.....	29.391	29.678	29.126	41.2	54.7	61.4	38.4	49.9	84	24	34	35	77	50	.206	.213	.39	.17	2.3	2.4	1.8
April.....	29.220	29.595	28.784	45.8	56.8	62.8	41.3	52.0	87	22	39	41	77	59	.252	.269	3.09	1.28	5.1	5.0	4.9
May.....	29.354	29.862	29.040	50.8	62.3	66.7	47.8	57.2	79	38	43	43	74	53	.287	.299	3.42	1.14	5.0	4.9	4.7
June.....	29.334	29.588	29.069	64.2	78.0	82.8	60.2	71.5	99	43	54	53	71	43	.440	.428	.91	.36	3.0	3.4	2.7
July.....	29.267	29.615	29.077	70.3	82.5	87.4	66.5	77.0	97	56	62	60	74	50	.559	.537	2.86	2.01	3.4	4.7	3.6
August.....	29.329	29.640	29.073	66.7	78.5	83.7	64.2	74.0	94	50	59	59	78	53	.524	.518	4.31	1.79	5.3	4.1	4.5
September.....	29.398	29.794	29.033	58.1	67.5	73.0	55.8	65.4	84	45	54	56	87	68	.431	.468	2.40	.81	4.9	4.7	4.8
October.....	29.350	29.743	28.770	48.7	59.7	67.9	46.3	57.1	88	24	43	44	81	57	.294	.307	.61	.46	2.6	2.6	2.9
November.....	29.370	29.713	28.925	29.7	35.4	41.7	26.0	33.8	63	-14	25	26	81	66	.135	.138	.22	.07	5.0	4.1	5.3
December.....	29.449	30.089	29.014	21.1	27.6	32.6	17.6	25.1	48	-1	17	19	82	70	.095	.106	.85	.46	4.3	3.9	4.8
Year.....	29.365	30.089	28.547	44.4	54.3	60.0	40.8	50.4	99	-13	38	40	80	61	.284	.291	21.94	2.01	4.2	4.1	4.2

DEL RIO, TEX.

[$\phi=29^{\circ}20' N.$; $\lambda=100^{\circ}53' W.$]

January.....	29.154	29.630	28.883	42.9	55.5	65.5	39.9	52.7	84	20	35	35	74	56	0.226	0.226	0.03	0.02	4.0	4.0	4.7
February.....	29.116	29.565	28.721	43.3	56.0	66.0	39.9	54.0	85	20	33	33	72	53	.217	.217	.02	.02	4.4	4.4	3.8
March.....	29.057	29.271	28.701	56.3	79.9	82.7	54.5	67.2	98	40	47	47	72	53	.335	.335	2.06	1.20	4.9	4.9	3.9
April.....	28.987	29.245	28.690	57.8	82.7	85.8	55.8	69.2	92	43	49	49	74	50	.374	.374	3.30	2.52	3.6	3.6	3.1
May.....	28.929	29.127	28.702	67.1	89.2	92.2	64.9	77.0	97	49	61	61	71	50	.544	.544	.55	.25	5.6	5.6	4.0
June.....	28.907	29.121	28.759	72.8	95.8	98.8	71.3	83.6	111	60	64	64	75	50	.606	.606	.52	.51	2.5	2.5	1.9
July.....	28.913	29.049	28.822	75.7	98.8	101.8	75.2	87.0	108	70	66	66	72	50	.634	.634	.18	.18	1.9	1.9	1.5
August.....	28.922	29.101	28.861	76.4	99.3	102.3	76.3	87.8	102	70	66	66	70	50	.637	.637	.26	.26	1.5	1.5	1.9
September.....	28.985	29.143	28.815	71.5	93.6	96.6	71.0	82.3	98	66	65	65	81	50	.621	.621	.72	.44	2.7	2.7	3.7
October.....	29.035	29.604	28.699	58.2	81.8	86.8	56.4	69.1	97	36	52	52	81	50	.422	.422	1.01	.71	3.3	3.3	3.9
November.....	29.025	29.336	28.826	51.4	76.0	81.0	48.5	62.2	92	36	44	44	79	50	.315	.315	.12	.12	4.1	4.1	4.2
December.....	29.130	29.487	28.831	42.7	66.3	71.3	39.6	53.0	86	22	34	34	72	50	.207	.207	.29	.27	3.6	3.6	4.4
Year.....	29.013	29.630	28.690	59.7	83.1	88.1	57.8	70.4	111	20	51	51	75	50	.428	.428	9.06	2.52	3.5	3.5	3.3

DENVER, COLO.

[$\phi=39^{\circ}45' N.$; $\lambda=105^{\circ} W.$]

January.....	24.606	25.154	24.323	26.7	34.6	43.2	20.1	31.6	64	-7	13	19	60	56	0.082	0.105	0.16	0.15	2.6	4.5	4.3
February.....	24.674	25.066	24.177	21.8	36.5	43.8	16.6	30.2	67	-5	12	17	66	48	.074	.090	.35	.15	4.1	4.3	4.0
March.....	24.751	24.982	24.252	36.9	50.4	55.3	35.6	50.4	78	18	22	22	51	25	.118	.119	.96	.96	1.5	3.6	2.4
April.....	24.724	25.030	24.219	42.2	60.2	65.6	38.8	52.2	86	28	28	28	57	30	.152	.140	1.39	.63	3.9	4.8	4.0
May.....	24.760	25.064	24.460	46.2	66.8	72.2	42.6	54.8	85	29	38	36	75	43	.233	.216	2.50	1.04	4.8	5.5	4.6
June.....	24.723	25.034	24.349	66.3	78.1	83.7	52.4	68.0	95	42	42	37	61	26	.273	.232	.20	.10	1.8	4.9	3.0
July.....	24.804	25.004	24.588	62.6	81.3	89.1	59.9	74.5	101	51	46	44	58	32	.324	.304	3.47	2.44	3.5	5.7	4.1
August.....	24.812	25.104	24.598	59.7	75.5	84.7	56.4	70.6	94	40	48	45	66	34	.369	.314	1.79	.73	5.0	5.5	5.1
September.....	24.810	25.089	24.490	53.1	71.3	78.1	50.5	64.3	91	39	41	41	67	40	.268	.277	1.00	.51	3.8	5.8	4.4
October.....	24.783	25.123	24.388	43.7	61.9	70.2	40.6	55.4	89	19	26	25	52	28	.145	.138	.21	.15	3.3	4.3	3.4
November.....	24.711	25.038	24.403	38.7	50.4	57.9	33.3	45.6	75	22	22	20	56	37	.118	.116	.16	.08	4.7	6.6	5.3
December.....	24.727	25.069	24.268	28.3	39.9	46.5	23.7	35.1	60	11	17	19	63	46	.093	.105	.71	.39	1.9	4.9	3.9
Year.....	24.748	25.154	24.177	43.2	59.6	66.2	39.2	52.7	101	-7	30	29	61	37	.185	.180	12.89	2.44	3.4	5.0	4.0

DES MOINES, IOWA.

[$\phi=41^{\circ}35' N.$; $\lambda=93^{\circ}37' W.$]

January.....	29.162	29.712	28.323	17.5	23.2	28.6	12.4	20.5	48	-14	15	19	89	82	0.085	0.107	1.72	0.96	6.2	6.0	6.3
February.....	29.221	29.633	28.389	15.8	24.3	30.4	10.0	20.2	49	-9	12	19	85	81	.081	.107	.20	.11	5.0	5.1	6.2
March.....	29.114	29.453	28.811	41.6	57.9	63.4	39.5	51.4	86	24	34	35	77	44	.206	.207	.33	.33	3.0	4.2	3.5
April.....	28.971	29.296	28.611	45.1	59.3	65.3	41.2	53.2	92	22	38	39	76	52	.237	.258	1.13	.30	6.4	6.4	6.3
May.....	29.106	29.581	28.775	60.1	62.1	66.9	40.5	56.7	78	36	40	41	70	50	.259	.274	3.26	1.44	6.4	5.7	6.2
June.....	29.081	29.320	28.827	64.3	76.0	81.5	59.7	70.6	95	46	55	55	73	50	.454	.449	3.11	1.29	4.6	6.2	5.0
July.....	29.012	29.352	28.746	68.5	81.7	87.0	64.2	75.6	97	54	60	60	76	49	.530	.518	.86	.56	5.0	5.3	5.4
August.....	29.064	29.391	28.753	66.0	78.8	84.0	62.8	73.4	97	45	59	60	89	53	.521	.533	2.30	.79	5.9	6.0	5.6
September.....	29.123	29.555	28.684	57.8	68.4	74.2	54.6	64.4	88	38	54	56	86	66	.416	.466	3.82	1.32	6.1	4.9	5.9
October.....	29.086	29.472	28.652	47.3	59.7	68.1	44.6	56.4	86	20	40	43	77	55	.290	.298	.68	.42	2.9	3.4	3.6
November.....	29.122	29.442	28.621	29.9	38.0	44.5	26.4	35.4	62	15	23	25	76	58	.125	.133	.53	.42	5.6	5.3	6.1
December.....	29.186	29.781	28.848	21.2	29.1	34.5	17.6	26.0	53	0	17	19	82	68	.092	.102	.20	.16	5.2	6.5	6.0
Year.....	29.104	29.781	28.323	43.8	54.9	60.7	40.0	50.3	97	-14	37	39	79	59	.274	.288	18.24	1.44	5.2	5.3	5.5

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

COLUMBUS, OHIO.

[H=824 ft.; h₁=173 ft.; h₂=171 ft.; h₃=222 ft.]

Month.	Wind.													Number of days.														
	By self-register.			Number of winds, 8 a. m. and 8 p. m.										Precipitation.	Snow.		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.		T. or more.	0.01 inch or more melted.	Fog.	32° or below.	90° or above.	Minimum temperature 33° or below.	Thunderstorms.	Auroras.
														0.01 inch and over.			0.04 inch and over.											
January	10.8	S.	36	W.	0	4	1	5	7	14	7	12	12	0	3	6	22	17	13	14	10	0	3	11	0	26	1	0
February	13.7	S.	41	W.	2	7	4	1	9	12	7	7	9	0	10	5	13	10	10	9	7	0	2	12	0	25	0	0
March	10.1	SW.	42	NW.	3	6	3	6	10	10	14	5	8	0	13	13	5	1	1	2	0	2	0	0	10	3	2	
April	11.7	SW.	45	NW.	2	10	3	4	12	8	9	7	7	0	9	10	11	14	10	3	3	1	1	0	0	3	4	
May	11.5	N.	48	W.	2	15	2	4	7	10	7	9	8	0	10	8	13	14	12	0	0	0	0	0	0	4	4	
June	9.2	N.	40	W.	1	14	11	7	4	4	10	6	0	0	9	13	8	10	6	0	0	0	0	5	0	2		
July	8.9	S.	37	N.	0	8	8	9	5	12	10	8	2	0	10	12	9	8	6	0	0	0	0	4	0	0		
August	8.7	S.	38	N.	0	13	1	7	6	18	6	7	4	0	19	8	4	7	3	0	0	0	0	5	0	0		
September	8.6	W.	35	N.	0	15	4	7	6	12	12	2	2	0	10	5	15	11	6	0	0	0	0	0	0	11		
October	10.8	W.	43	W.	2	3	6	7	6	12	4	14	9	1	19	4	8	6	5	1	1	0	0	0	1	2		
November	13.1	W.	56	W.	1	3	0	6	4	8	3	24	12	0	5	5	20	7	6	9	1	1	0	0	3	3		
December	12.1	W.	44	W.	2	3	3	4	11	6	11	9	15	0	4	6	21	11	7	15	9	0	1	16	0	30		
Year	10.8	S.	50	W.	15	101	46	66	88	126	94	114	94	1	121	95	149	116	87	56	31	2	11	40	14	116	48	

CONCORD, N. H.

[H=288 ft.; h₁=70 ft.; h₂=62 ft.; h₃=79 ft.]

January	5.6	NW.	35	NW.	0	4	6	1	3	4	3	3	6	1	7	10	14	13	11	9	9	0	1	11	0	29	0	0
February	6.5	NW.	31	W.	0	5	3	0	2	4	2	4	6	1	11	5	12	10	9	8	7	0	1	14	0	27	0	0
March	6.1	NW.	34	W.	0	8	3	0	2	3	4	5	6	0	10	12	9	6	4	4	1	0	0	1	0	23	0	1
April	6.2	NW.	25	SE.	0	7	4	3	7	0	0	2	7	0	7	9	14	8	8	1	1	1	0	2	0	11	0	0
May	5.4	NW.	27	W.	0	10	2	1	5	1	4	1	6	1	4	12	15	11	8	0	0	0	1	0	0	2	1	
June	5.0	NW.	20	W.	0	5	8	2	2	2	5	1	4	1	6	13	11	12	9	0	0	0	0	0	0	0	2	
July	4.7	NW.	25	NW.	0	8	7	2	0	3	1	3	6	1	13	14	4	7	6	0	0	0	2	0	3	0	2	
August	4.8	SE.	25	W.	0	6	8	2	1	5	5	2	2	0	10	14	7	9	5	0	0	0	0	0	0	5	0	
September	3.9	NW.	21	NW.	0	5	8	4	1	1	2	2	7	0	9	12	9	13	7	1	0	0	3	0	0	0	0	
October	6.2	NW.	29	NW.	0	5	3	1	4	2	1	4	11	0	15	8	10	9	7	2	1	0	0	1	0	0	0	
November	6.0	NW.	24	NW.	0	9	5	2	4	3	2	6	8	1	4	11	15	8	10	3	0	0	2	17	0	23	0	
December	5.9	NW.	30	NW.	0	3	0	0	4	2	2	6	13	0	7	12	12	11	6	12	7	0	0	0	0	29	0	
Year	5.5	NW.	35	NW.	0	71	54	18	32	30	33	39	82	6	103	130	132	117	86	45	28	0	18	43	3	151	17	

CONCORDIA, KANS.

[H=1,398 ft.; h₁=42 ft.; h₂=35 ft.; h₃=50 ft.]

January	6.7	NW.	28	NW.	0	8	3	3	6	6	11	10	10	5	6	16	9	5	3	6	3	0	1	12	0	29	0	0
February	8.2	N.	27	NW.	0	14	7	1	11	8	5	5	4	1	9	13	6	1	6	3	1	0	0	0	5	0	0	
March	7.3	SW.	37	S.	0	10	5	3	3	14	16	4	3	4	18	13	0	0	0	1	0	0	0	0	0	5	0	
April	10.0	NW.	37	SE.	0	12	5	1	6	12	3	2	15	4	10	15	5	5	2	2	0	1	1	0	2	1	3	
May	6.8	N.	25	NE.	0	17	7	10	9	5	4	7	0	3	5	15	11	14	13	0	0	1	1	0	0	0	5	
June	7.2	SE.	32	S.	0	3	7	7	21	12	2	1	4	3	5	24	1	8	5	0	0	0	0	0	0	8	0	
July	5.5	SE.	31	NE.	0	11	10	7	19	7	3	1	3	1	6	23	2	6	4	0	0	0	0	0	0	19	0	
August	5.6	S.	26	NW.	0	11	12	3	14	16	1	0	3	2	7	18	6	12	9	0	0	1	1	6	9	0	16	
September	6.4	SE.	25	S.	0	6	11	4	16	10	3	1	6	3	8	15	7	8	7	7	1	0	0	1	6	4	9	
October	7.3	S.	26	NW.	0	8	0	0	9	26	4	9	4	2	16	12	3	2	2	2	0	0	0	2	0	0	3	
November	5.8	N.	26	S.	0	14	1	9	4	10	7	5	7	3	4	22	4	2	2	2	0	0	0	0	0	0	21	
December	6.6	N.	30	SW.	0	11	3	6	9	11	5	9	6	2	8	13	10	4	2	3	3	0	0	0	0	31	0	
Year	7.0	S.	37	S.	0	125	71	54	127	137	64	54	65	33	102	199	64	67	49	18	7	4	7	23	42	116	42	

CORPUS CHRISTI, TEX.

[H=20 ft.; h₁=69 ft.; h₂=61 ft.; h₃=77 ft.]

January	12.2	SE.	38	NW.	0	12	7	9	13	11	2	0	8	0	13	11	7	4	4	0	0	0	1	0	0	2	0
February	14.4	N.	42	SE.	2	17	8	15	3	10	0	0	3	0	9	10	9	4	2	2	0	0	0	2	0	0	3
March	15.7	SE.	42	SE.	1	3	1	9	31	8	4	2	4	0	20	6	5	1	1	0	0	0	0	0	0	0	1
April	15.0	SE.	44	E.	2	8	2	3	31	8	4	2	2	0	14	8	8	6	5	0	0	0	0	0	0	2	0
May	17.4	SE.	48	E.	4	3	2	7	32	12	3	0	3	0	8	20	3	6	6	0	0	1	0	0	0	0	7
June	16.0	SE.	52	NW.	2	5	0	4	31	16	3	0	1	0	20	9	1	3	3	0	0	0	0	0	0	4	0
July	16.9	SE.	44	SE.	2	0	1	2	35	20	4	0	0	0	20	9	2	2	1	1	0	0	0	0	0	5	0
August	15.0	SE.	48	E.	1	5	3	4	31	15	2	1	1	0	13	12	6	6	4	0	0	0	0	0	4	0	
September	13.1	SE.	61	E.	3	3	6	9	26	5	2	1	8	0	16	9	5	8	7	0	0	0	1	0	1	0	
October	10.6	N.	33	NE.	0	18	1	8	13	4	6	2	10	0	17	8	6	4	1	0	0	0	4	0	1	0	
November	10.5	SE.	31	NE.	0	13	3	4	20	12	1	2	5	0	10	13	7	4	1	0	0	0	6	3	0	0	
December	11.8	SE.	37	NE.	0	12	7	4	16	12	0	1	9	1	10	8	13	6	4	0	0	0	1	0	0	0	
Year	14.0	SE.	61	E.	17	99	41	78	282	133	31	11	54	1	170	123	72	54	39	0	0	1	14	0	17	5	

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

DAVENPORT, IOWA.

[H=606 ft.; h₁=71 ft.; h₂=65 ft.; h₃=79 ft.]

Month.	Wind.														Number of days.														
	By self-register.				Number of winds, 8 a. m. and 8 p. m.										Precipitation.		Snow.		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.	T. or more.	0.01 inch or more melted.	Hail.	Fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.	
	Miles.		Mi.																										
January	8.1	NW.	31	W.	0	6	3	4	4	9	5	12	18	1	10	4	17	9	4	12	9	0	2	19	0	29	0	0	
February	8.5	NW.	30	W.	0	11	2	5	2	7	7	10	16	0	12	8	8	6	2	6	5	0	0	14	0	28	0	0	
March	7.4	NW.	32	NW.	0	5	5	3	4	10	10	7	15	3	26	5	0	0	0	0	0	0	2	0	10	2	2	0	
April	8.2	NW.	31	SE.	0	7	4	7	3	9	4	8	13	1	13	8	11	16	13	6	6	0	0	1	0	6	0	0	
May	8.2	NW.	29	W.	0	4	9	12	3	9	3	9	12	0	20	6	10	4	5	5	0	0	0	0	11	0	0	0	
June	5.8	E.	23	E.	0	6	9	17	4	5	7	8	0	19	7	5	5	5	5	0	0	0	0	0	11	0	0	0	
July	6.1	SW.	39	NW.	0	3	7	7	3	12	13	10	7	7	14	10	7	7	7	7	0	0	0	0	3	0	6	0	0
August	5.9	SW.	29	W.	0	7	5	10	3	10	7	12	2	4	12	8	10	9	8	0	0	0	0	1	0	0	0	7	0
September	6.0	W.	23	S.	0	2	3	4	4	10	8	15	11	5	20	6	5	7	7	3	2	0	2	0	0	3	0	0	0
October	6.5	W.	28	W.	0	1	2	3	4	10	8	15	11	5	20	6	5	7	7	3	2	0	2	0	0	3	0	0	0
November	7.8	NW.	26	NW.	0	2	7	6	3	3	14	23	1	14	4	12	4	4	4	4	0	0	0	3	0	27	0	0	0
December	8.1	NW.	22	NW.	0	5	3	7	6	2	6	17	14	2	13	7	11	5	5	10	4	0	1	14	0	31	0	0	0
Year	7.2	NW.	39	NW.	0	62	57	93	45	97	87	121	151	17	186	79	100	93	70	40	24	1	8	51	25	134	32	3	0

DEL RIO, TEX.

[H=944 ft.; h₁=8 ft.; h₂=3 ft.; h₃=57 ft.]

January	7.8	SE.	42	N.	1	2	0	10	6	0	1	1	11	0	15	7	9	2	0	0	0	0	3	0	0	8	0	0	0
February	9.1	SE.	42	NW.	1	2	2	17	4	0	0	0	6	0	21	6	8	1	4	0	0	0	0	0	0	6	0	0	0
March	9.2	SE.	29	SE.	0	2	2	17	6	0	0	0	4	0	15	6	8	3	3	0	0	0	0	0	0	5	0	1	0
April	8.3	SE.	36	N.	0	0	4	5	9	2	0	0	6	0	19	5	6	5	5	0	0	0	0	0	0	5	0	1	0
May	9.0	SE.	31	S.	0	0	0	22	9	4	0	0	3	0	14	14	3	5	2	1	0	0	0	0	0	11	0	1	0
June	9.7	SE.	29	SW.	0	1	3	13	12	1	0	0	0	0	25	4	1	2	1	0	0	0	0	0	0	25	0	1	0
July	9.0	SE.	36	S.	0	0	1	23	5	2	0	0	0	0	28	3	0	0	1	1	1	0	0	0	0	31	0	0	0
August	8.3	SE.	28	SE.	0	1	1	24	5	0	0	0	0	0	24	7	0	1	1	0	0	0	0	0	0	31	0	0	0
September	7.4	SE.	30	NE.	0	2	1	20	7	0	0	0	0	0	16	10	4	5	3	0	0	0	0	0	27	0	1	0	
October	7.2	SE.	35	W.	0	4	2	13	5	0	0	0	7	0	17	7	7	6	5	0	0	0	0	0	9	0	1	0	
November	6.2	SE.	27	N.	0	0	4	2	10	4	0	0	1	13	0	13	12	5	1	1	0	0	1	0	1	0	0	0	
December	6.5	SE.	34	NW.	0	3	5	4	5	0	1	6	7	0	15	8	8	3	2	0	0	0	1	0	0	4	0	0	
Year	8.2	SE.	42	N.	2	19	23	159	90	7	2	8	57	0	222	91	52	36	27	0	0	0	5	0	141	18	6	0	0

DENVER, COLO.

[H=5,291 ft.; h₁=129 ft.; h₂=119 ft.; h₃=172 ft.]

January	6.6	SW.	45	W.	1	10	8	5	5	9	10	7	8	0	14	14	3	2	2	6	2	0	0	5	0	26	0	0	0
February	6.0	SW.	42	W.	1	5	7	5	5	19	4	4	6	0	14	12	6	1	2	2	10	7	0	0	5	0	26	0	0
March	9.8	S.	50	N.	3	9	7	4	4	25	6	3	4	0	24	6	1	2	2	2	1	0	0	0	0	5	0	0	0
April	10.6	S.	52	NE.	3	14	8	7	1	21	8	6	5	0	14	11	3	5	4	2	0	0	0	0	0	5	0	0	0
May	7.6	NE.	45	NE.	2	15	9	8	1	14	9	2	4	0	11	15	5	11	9	5	4	0	0	0	0	5	2	0	0
June	8.2	S.	38	SW.	0	7	7	4	3	17	14	1	6	1	21	8	1	5	2	0	0	0	1	0	0	9	0	5	0
July	8.1	S.	45	NW.	3	10	4	5	3	20	11	2	7	0	13	15	3	6	3	0	0	0	0	0	0	15	0	9	0
August	8.1	S.	44	NE.	3	6	5	2	9	17	9	3	11	0	4	26	1	9	8	0	0	0	1	0	10	0	10	0	0
September	7.7	S.	51	N.	2	6	11	8	2	15	11	1	6	0	12	14	4	9	7	0	0	0	1	0	1	0	12	0	0
October	8.7	S.	43	NE.	1	6	8	3	5	23	8	2	7	0	15	15	1	5	2	4	3	0	0	0	0	6	1	0	0
November	8.3	S.	42	W.	1	5	7	3	6	10	16	4	9	0	7	16	7	3	3	7	3	0	0	0	0	13	0	0	0
December	8.3	S.	46	W.	2	4	12	2	6	20	11	0	7	0	13	15	3	3	3	5	3	0	3	1	0	27	0	0	0
Year	8.2	S.	52	NE.	22	87	93	56	50	196	132	35	80	1	162	167	36	67	49	41	23	0	6	11	38	116	39	0	0

DES MOINES, IOWA.

[H=861 ft.; h₁=84 ft.; h₂=76 ft.; h₃=98 ft.]

January	8.2	NW.	32	NW.	0	5	2	4	5	7	11	10	18	0	10	6	15	6	5	12	6	0	1	17	0	29	0	0	0
February	8.7	NW.	31	W.	0	8	6	6	1	11	7	6	5	12	0	7	8	13	3	8	2	2	0	16	0	28	0	0	0
March	8.6	NW.	44	SW.	0	1	1	1	6	5	17	8	10	0	17	10	4	2	2	2	0	1	2	0	0	0	3	4	1
April	8.7	N.	37	SW.	0	12	5	3	0	9	9	9	8	0	1	8	8	14	10	8	6	4	2	0	0	0	0	0	0
May	8.7	NW.	37	NW.	0	11	8	8	0	5	6	4	14	0	8	8	14	12	9	0	0	0	0	0	0	0	0	0	0
June	8.4	SE.	34	NW.	0	3	12	7	14	6	6	2	9	1	11	13	6	10	8	0	0	0	1	0	0	10	0	8	0
July	6.3	S.	33	S.	0	12	2	10	6	15	4	7	6	0	9	11	11	5	2	0	0	0	1	0	0	11	0	7	0
August	6.4	S.	27	N.	0	15	3	1	9	11	15	2	6	0	9	10	12	9	7	0	0	0	0	0	0	6	0	7	0
September	6.5	S.	24	S.	0	8	7	4	11	12	8	2	8	0	11	3	16	9	3	0	0	0	1	0	0	0	4	0	0
October	7.4	NW.	28	SW.	0	8	0	0	8	16	11	6	13	0	18	4	9	4	3	2	0	0	2	0	0	0	3	0	0
November	7.2	NW.																											

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

DETROIT, MICH.
[φ=42° 20' N.; λ=83° 03' W.]

Month.	Pressure.			Temperature.							Moisture.										
	Monthly mean.	Extremes.		Mean.			Extremes.		Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.						
		Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.		Maximum.	Minimum.	8 a. m.	8 p. m.		Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.		
January.....	29.256	29.943	28.480	24.1	26.1	30.3	19.8	25.0	43	2	20	22	62	62	0.110	0.120	3.14	1.03	8.5	7.3	8.0
February.....	29.311	29.769	28.770	19.2	24.5	29.3	15.5	22.4	46	3	14	19	78	77	0.088	0.108	1.84	0.58	7.3	6.4	6.7
March.....	29.264	29.530	28.837	36.1	44.7	53.6	34.5	44.0	81	17	30	30	74	58	0.177	0.179	0.38	0.34	5.0	3.2	4.1
April.....	29.115	29.508	28.730	43.7	49.9	58.1	39.8	49.0	75	31	36	36	75	61	0.217	0.223	4.73	1.32	6.0	5.8	5.9
May.....	29.217	29.634	28.779	49.9	56.2	62.5	45.2	53.8	76	34	40	40	71	58	0.286	0.270	3.65	1.31	5.8	6.2	5.2
June.....	29.192	29.423	28.760	62.0	69.0	75.7	57.3	66.5	95	39	52	54	71	60	0.307	0.307	4.30	1.47	6.9	5.3	4.7
July.....	29.160	29.474	28.953	69.4	75.4	83.4	64.4	73.9	96	54	59	58	70	58	0.305	0.302	1.48	0.67	3.3	4.3	4.7
August.....	29.239	29.451	28.936	66.1	72.8	79.5	61.7	70.6	91	48	57	57	74	59	0.484	0.476	1.11	0.35	4.7	5.1	5.7
September.....	29.304	29.582	29.013	50.2	64.3	71.5	55.1	63.3	84	48	53	53	81	68	0.414	0.417	2.02	0.73	3.9	1.9	4.4
October.....	29.260	29.601	28.764	49.5	54.6	63.0	46.2	54.6	82	26	38	43	77	67	0.280	0.300	1.07	0.70	3.7	7.5	8.1
November.....	29.125	29.472	28.757	33.4	36.3	40.1	31.3	33.7	61	26	27	29	76	75	0.144	0.160	2.04	0.45	4.7	6.6	7.2
December.....	29.264	29.896	28.638	21.9	24.4	28.8	17.7	23.2	35	7	18	19	83	77	0.098	0.100	2.05	0.45	7.6	6.6	6.7
Year.....	29.223	29.943	28.480	44.7	40.8	56.3	40.7	48.5	96	2	37	38	76	67	0.266	0.274	24.98	1.32	5.9	5.3	5.9

DEVILS LAKE, N. DAK.
[φ=48° 7' N.; λ=98° 52' W.]

January.....	28.418	29.021	27.906	4.5	11.2	17.4	-0.1	8.6	38	-26	4	9	95	89	0.055	0.070	0.10	0.09	4.4	5.1	6.0
February.....	28.506	28.837	27.800	-4.2	7.0	13.4	-7.8	2.8	38	-28	-6	4	90	86	0.033	0.056	0.27	0.10	3.0	4.1	4.8
March.....	28.344	28.854	27.560	31.3	42.6	51.6	27.7	39.6	85	11	27	30	83	82	0.150	0.168	1.34	0.25	5.4	4.8	4.6
April.....	28.337	28.828	27.742	34.7	51.9	59.3	30.1	44.7	84	14	27	30	75	48	0.155	0.181	1.22	0.60	4.7	4.9	4.3
May.....	28.453	28.840	27.979	42.2	56.4	62.0	36.1	49.0	81	21	34	33	75	44	0.206	0.195	0.91	0.33	4.4	5.3	4.9
June.....	28.374	28.706	28.007	60.4	76.2	81.8	54.9	68.4	101	29	51	48	71	40	0.384	0.364	1.33	0.47	4.3	4.4	3.9
July.....	28.351	28.600	27.956	60.1	77.7	82.5	65.0	68.8	96	47	52	49	76	38	0.369	0.356	1.84	1.05	3.1	3.9	3.6
August.....	28.400	28.788	27.968	53.8	69.9	75.5	49.5	62.5	94	36	47	46	78	46	0.326	0.322	2.63	1.56	5.5	5.3	6.0
September.....	28.456	28.886	28.032	46.5	57.9	65.8	43.1	54.4	80	32	42	43	85	63	0.273	0.264	2.62	2.29	4.9	4.7	5.6
October.....	28.350	28.800	27.762	37.8	50.0	59.5	35.6	46.6	82	17	31	34	77	56	0.177	0.203	0.91	0.70	3.8	4.1	6.0
November.....	28.450	28.980	27.916	17.4	21.8	27.9	13.5	20.7	54	-6	14	18	88	84	0.084	0.099	0.55	0.30	7.8	6.3	6.9
December.....	28.443	28.939	27.989	8.0	10.6	19.1	0.5	9.8	40	-20	6	8	92	87	0.063	0.070	0.61	0.20	5.9	5.1	6.6
Year.....	28.407	29.021	27.569	32.7	44.4	51.3	28.2	39.7	101	-23	27	29	82	62	0.192	0.197	13.33	2.29	4.8	4.8	5.2

DODGE, KANS.
[φ=37° 45' N.; λ=100° W.]

January.....	27.465	27.903	26.912	24.6	33.0	41.5	20.7	31.1	71	-7	19	22	77	63	0.111	0.121	0.26	0.18	2.9	4.2	4.5
February.....	27.458	27.842	26.964	21.3	33.1	42.7	17.0	29.8	72	1	15	19	76	55	0.087	0.102	0.31	0.18	4.1	3.8	4.1
March.....	27.448	27.767	26.995	41.2	64.2	72.5	39.0	55.8	80	24	30	31	64	30	0.169	0.195	0.01	0.01	2.2	2.8	3.2
April.....	27.366	27.701	26.795	44.3	64.2	71.4	41.7	56.6	95	30	34	33	68	34	0.206	0.201	0.93	0.51	2.1	3.6	3.8
May.....	27.398	27.766	26.934	50.9	66.0	71.0	47.9	59.4	94	36	47	48	87	57	0.329	0.337	1.17	0.38	5.7	5.2	5.4
June.....	27.360	27.646	27.012	62.8	79.5	84.4	60.0	72.2	98	45	55	53	78	45	0.447	0.424	2.27	1.22	6.1	4.7	4.7
July.....	27.354	27.602	27.132	69.1	86.5	91.6	66.2	78.9	104	60	60	57	74	40	0.519	0.473	1.86	1.37	4.1	2.7	3.7
August.....	27.403	27.748	27.144	65.9	80.3	87.2	63.6	75.4	104	45	60	60	84	53	0.541	0.522	2.63	0.58	5.7	4.7	4.4
September.....	27.420	27.790	27.036	60.0	78.7	85.8	57.6	70.7	96	38	53	53	80	49	0.423	0.421	2.66	0.30	3.7	3.1	3.9
October.....	27.458	27.917	27.021	45.3	63.5	75.5	43.1	59.3	86	22	38	39	75	43	0.243	0.256	0.34	0.16	1.6	2.3	2.4
November.....	27.415	27.832	27.031	34.3	48.4	59.7	31.9	45.8	80	17	25	27	69	44	0.134	0.145	0.02	0.02	3.4	2.5	4.0
December.....	27.432	27.901	26.901	25.7	38.7	48.6	22.3	35.4	63	8	19	23	75	53	0.104	0.124	0.06	0.03	2.2	2.8	3.6
Year.....	27.415	27.917	26.795	45.4	61.1	69.2	42.6	55.9	104	-7	38	39	76	47	0.276	0.277	10.12	1.37	3.6	3.5	4.0

DUBUQUE, IOWA.
[φ=42° 30' N.; λ=90° 44' W.]

January.....	29.348	29.952	28.424	16.1	21.5	27.0	9.7	18.4	44	-25	13	17	88	82	0.090	0.101	2.45	0.93	6.6	6.0	6.4
February.....	29.415	29.880	28.751	13.7	21.3	27.1	8.8	18.0	45	-11	10	15	82	76	0.073	0.090	0.50	0.20	5.9	4.5	5.0
March.....	29.315	29.617	29.060	38.9	62.7	68.9	36.6	47.8	84	20	31	33	75	49	0.182	0.195	0.14	0.08	2.2	4.4	2.5
April.....	29.151	29.499	28.670	44.8	66.4	62.8	39.9	51.4	87	22	36	39	74	57	0.227	0.256	3.40	1.40	5.5	6.5	5.5
May.....	29.293	29.810	28.974	49.8	61.6	65.6	46.7	56.2	76	36	40	40	70	47	0.261	0.262	3.42	0.92	5.2	4.8	4.6
June.....	29.290	29.522	28.986	62.2	77.7	82.0	58.0	70.0	98	43	54	53	74	44	0.432	0.424	2.43	1.83	2.8	3.4	3.6
July.....	29.204	29.560	28.974	68.7	82.7	87.5	64.5	76.0	98	54	60	56	74	43	0.523	0.474	4.47	2.23	3.5	4.6	4.0
August.....	29.261	29.550	28.973	65.3	77.1	83.1	62.4	72.8	93	45	59	56	80	52	0.509	0.481	3.96	1.51	5.6	4.9	4.5
September.....	29.333	29.739	28.953	56.1	65.3	72.1	53.5	62.8	84	41	52	54	87	67	0.408	0.428	3.10	1.44	5.3	5.0	5.6
October.....	29.277	29.655	28.787	47.5	57.0	65.1	45.0	55.0	82	34	42	44	82	63	0.285	0.307	0.89	0.66	2.6	3.3	3.7
November.....	29.292	29.647	28.831	32.5	43.7	50.3	25.6	32.4	69	16	24	25	83	70	0.130	0.132	0.53	0.22	5.6	6.4	5.7
December.....	29.363	29.985	28.905	19.0	28.0	30.6	15.7	23.2	46	-2	15	21	82	81	0.085	0.113	0.57	0.24	4.9	4.6	5.5
Year.....	29.294	29.985	28.424	42.5	52.8	58.4	38.9	48.7	98	-25	36	38	79	61	0.267	0.272	21.86	1.83	4.6	4.8	4.8

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

DULUTH, MINN.

[$\phi=46^{\circ} 47' N.$; $\lambda=92^{\circ} 6' W.$]

Month.	Pressure.			Temperature.						Moisture.											
	Monthly mean.	Extremes.		Mean.			E tremes.			Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.					
		Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.		Minimum.	8 a. m.	8 p. m.	8 a. m.		8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
January.....	In. 28.804	In. 29.473	In. 28.166	10.9	15.0	21.2	5.6	13.4	33	-17	10	12	94	87	0.072	0.076	0.80	0.62	7.3	5.6	6.2
February.....	28.886	29.286	28.457	2.8	11.1	17.9	-1.1	8.4	33	-22	1	5	90	75	0.047	0.055	1.13	.83	4.6	3.9	4.2
March.....	28.733	29.207	28.286	30.4	38.9	48.0	26.8	37.4	79	11	24	26	78	62	.135	.147	1.44	.31	4.3	5.0	4.6
April.....	28.703	29.049	28.244	37.0	42.1	49.7	32.7	41.2	79	16	29	30	74	66	.165	.171	1.40	.64	5.1	5.0	5.3
May.....	28.906	29.353	28.419	43.2	49.0	56.2	37.4	46.8	79	28	33	32	69	53	.104	.104	1.18	.54	4.1	6.0	5.4
June.....	28.803	29.028	28.500	61.4	68.2	77.2	53.8	65.5	97	35	50	48	67	51	.375	.353	1.11	.94	3.3	4.8	4.2
July.....	28.715	29.100	28.966	62.6	70.2	76.6	57.7	67.2	91	48	53	52	72	55	.409	.399	3.89	2.05	3.8	5.1	4.7
August.....	28.771	29.140	28.509	59.1	64.7	71.3	54.2	62.8	85	44	52	52	80	66	.404	.394	2.41	1.71	4.9	4.4	5.2
September.....	28.821	29.198	28.414	50.7	56.9	64.5	46.8	55.0	83	34	45	46	83	70	.310	.320	4.20	1.76	6.5	5.7	5.9
October.....	28.729	29.119	28.363	42.0	48.4	55.8	39.3	47.6	79	23	36	37	79	67	.221	.232	.81	.29	4.8	5.9	5.1
November.....	28.775	29.106	28.406	22.2	24.7	28.7	19.1	23.0	42	6	20	20	88	81	.104	.105	1.18	.45	9.0	7.3	7.8
December.....	28.805	29.356	28.392	9.8	14.4	21.0	4.5	12.8	36	-20	8	11	91	86	.065	.073	.56	.18	5.8	5.7	5.9
Year.....	28.777	29.473	28.166	36.0	42.0	49.0	31.4	40.2	97	-22	30	31	80	68	.208	.209	18.11	2.05	5.3	5.4	5.4

DURANGO, COLO.

[$\phi=37^{\circ} 16' N.$; $\lambda=107^{\circ} 52' W.$]

January.....	23.687	24.026	23.324	15.9	29.0	35.9	12.1	24.0	52	-14	12	19	84	66	0.086	0.109	1.53	0.42	3.9	4.0	4.5
February.....	23.608	23.989	23.262	17.7	33.8	40.1	14.1	27.1	53	-2	11	18	73	52	.072	.099	.98	.39	3.9	5.0	4.7
March.....	23.703	23.913	23.340	30.6	34.9	39.6	29.2	34.4	70	9	23	23	72	51	.122	.125	.64	.34	2.0	4.7	3.7
April.....	23.653	23.984	23.310	39.4	54.9	59.6	44.0	47.0	78	19	24	24	66	50	.128	.130	.35	.20	3.0	5.5	4.5
May.....	23.649	23.881	23.352	39.1	69.1	72.9	38.2	55.6	89	27	27	25	61	20	.147	.135	.09	.04	2.9	5.2	4.3
June.....	23.681	23.871	23.440	46.1	79.0	82.5	44.8	63.6	88	39	32	29	58	19	.185	.170	.72	.64	2.7	3.7	3.3
July.....	23.749	23.918	23.573	52.4	78.6	86.7	51.9	69.3	94	44	43	45	72	33	.287	.305	.95	.48	3.0	6.5	5.4
August.....	23.767	23.947	23.625	51.7	77.1	83.2	51.4	67.3	91	45	44	46	77	37	.297	.314	1.28	.47	3.7	5.8	5.1
September.....	23.765	23.963	23.577	46.6	72.8	78.9	45.7	62.3	86	36	39	37	75	30	.249	.232	.33	.12	4.1	3.8	3.8
October.....	23.737	23.957	23.504	35.5	55.8	63.7	33.7	48.7	83	19	28	30	73	43	.156	.171	2.91	.85	3.7	3.8	4.0
November.....	23.689	23.896	23.450	28.9	44.6	53.7	27.4	40.6	66	18	24	20	80	58	.126	.158	1.02	.87	2.9	3.7	3.9
December.....	23.688	23.896	23.264	22.3	33.9	43.6	19.6	31.6	58	4	17	22	78	60	.094	.117	.94	.33	3.5	3.8	4.6
Year.....	23.698	24.026	23.262	35.0	57.2	63.6	33.4	48.5	94	-14	27	29	72	40	.162	.172	12.84	.87	3.3	4.6	4.3

EASTPORT, ME.

[$\phi=44^{\circ} 54' N.$; $\lambda=66^{\circ} 59' W.$]

January.....	29.981	30.691	29.169	24.3	28.2	34.5	20.2	27.4	53	-10	20	24	82	81	0.122	0.137	3.80	0.95	7.5	5.6	7.4
February.....	29.931	30.691	29.177	19.0	25.2	29.9	15.2	22.6	44	-2	15	20	83	79	.094	.112	4.52	.73	6.4	6.0	6.9
March.....	29.944	30.450	29.314	31.6	35.0	39.6	29.2	34.4	57	9	20	29	79	77	.143	.160	1.98	1.00	5.7	5.8	6.2
April.....	29.884	30.398	29.522	40.0	41.9	47.6	36.4	42.0	55	20	35	35	83	78	.211	.210	3.42	1.65	6.3	6.0	6.7
May.....	29.863	30.278	29.347	46.3	48.4	54.6	42.0	48.3	69	31	42	42	84	79	.268	.271	1.55	.41	5.4	6.0	6.7
June.....	29.804	30.177	29.382	54.2	55.1	62.8	48.5	55.6	80	41	50	49	85	80	.360	.351	2.72	.53	5.9	6.4	6.7
July.....	29.773	30.122	29.429	61.0	69.3	69.4	53.3	61.4	86	49	56	54	84	80	.454	.417	1.92	.52	4.5	4.6	6.2
August.....	29.979	30.329	29.489	59.3	60.5	68.2	53.3	60.8	82	47	55	54	85	78	.429	.411	1.44	.80	5.5	3.9	5.2
September.....	30.019	30.286	29.729	53.5	55.5	61.5	49.7	55.6	74	45	48	49	83	79	.341	.351	1.84	.60	6.4	4.2	6.6
October.....	29.830	30.382	29.256	46.7	47.3	53.9	41.6	47.8	66	31	41	42	82	81	.273	.272	1.85	.63	6.4	5.8	7.3
November.....	29.827	30.309	29.147	36.1	37.7	41.8	33.1	37.4	51	23	32	32	84	80	.184	.185	2.14	.52	6.7	7.7	8.4
December.....	29.844	30.648	29.179	21.3	23.8	29.5	15.7	22.6	49	-4	16	17	80	73	.106	.103	3.68	1.56	7.8	6.9	8.8
Year.....	29.873	30.691	29.147	41.1	43.2	49.4	36.5	43.0	86	-10	36	37	83	79	.249	.248	30.86	1.65	6.2	5.5	6.9

ELKINS, W. VA.

[$\phi=38^{\circ} 53' N.$; $\lambda=79^{\circ} 49' W.$]

January.....	28.011	28.559	27.382	26.8	31.6	40.6	22.0	31.3	61	-4	24	29	91	91	0.143	0.168	5.77	1.15	8.2	6.6	7.7
February.....	28.038	28.354	27.436	24.8	32.2	40.9	20.2	30.6	61	-5	22	28	88	84	.131	.162	2.22	.55	7.9	6.5	6.6
March.....	28.040	28.281	27.624	37.1	40.3	41.5	33.5	47.5	81	18	34	39	89	89	.201	.244	.68	.28	3.1	4.0	8.9
April.....	27.901	28.225	27.608	43.2	53.1	62.7	38.3	50.5	84	29	40	41	87	88	.249	.277	2.24	.37	6.0	6.0	5.9
May.....	27.989	28.207	27.807	51.2	58.1	67.6	42.0	55.2	86	25	45	45	79	84	.306	.316	3.91	1.02	5.3	8.0	8.9
June.....	27.901	28.155	27.585	59.1	65.7	75.0	53.9	64.4	89	38	54	58	86	76	.437	.490	8.05	.59	5.0	8.0	8.9
July.....	27.963	28.190	27.756	66.0	72.4	82.9	60.9	71.9	91	48	62	65	87	77	.557	.612	4.07	1.30	6.6	5.1	5.7
August.....	28.059	28.183	27.859	59.1	69.1	81.6	54.5	68.0	90	47	57	61	93	76	.465	.532	2.70	1.57	8.2	4.9	5.1
September.....	28.067	28.268	27.892	58.8	63.8	77.7	53.9	65.8	85	39	56	60	93	89	.477	.538	3.61	.61	6.2	3.6	5.8
October.....	28.029	28.382	27.653	49.0	53.3	68.0	43.6	55.8	85	22	44	47	84	79	.309	.341	2.21	.59	5.0	3.6	4.8
November.....	27.878	28.224	27.537	30.7	34.7	43.0	26.3	34.6	67	15	26	28	85	77	.144	.154	2.26	.94	8.6	7.6	8.0
December.....	27.999	28.495	27.445	21.1	28.2	35.6	18.2	26.9	61	-1	17	22	85	77	.098	.121	2.72	.63	8.0	7.9	7.8
Year.....	27.997	28.350	27.382	43.9	51.0	61.4	39.0	50.2	91	-5	40	44	87	77	.293	.329	40.44	1.93	6.2	5.8	6.1

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

DULUTH, MINN.

[H=1,133 ft.; h₁=11 ft.; h₂=3 ft.; h₃=47 ft.]

Month.	Wind.													Number of days.														
	By self-register.				Number of winds, 8 a. m. and 8 p. m.									Precipitation.	Snow.	Fog.	Maximum temp. 32° or above.	Minimum temperature below.	Thunderstorms.	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.	T. or more.	0.01 inch or more, in total.	Hail.	Fog.	32° or above.	90° or above.	Minimum temperature below.	Thunderstorms.	Auroras.
January	13.1	SW.	52	NW.	4	4	6	2	0	2	21	17	0	6	12	13	6	3	15	6	0	1	39	0	31	0	1	0
February	15.1	NW.	51	NE.	2	4	9	2	0	1	13	13	14	0	15	6	7	8	5	11	8	0	0	25	0	28	0	0
March	14.5	NE.	56	SW.	5	5	14	2	0	0	16	12	0	11	15	5	5	4	4	7	3	0	1	3	0	21	1	0
April	14.6	NE.	49	NE.	4	6	32	2	0	0	4	4	10	0	9	12	9	6	5	4	2	0	2	1	0	11	0	2
May	12.3	NE.	47	NW.	1	5	30	0	0	1	1	6	15	0	9	12	10	9	7	1	1	0	0	4	0	5	5	0
June	11.0	NE.	35	NW.	0	4	27	1	1	1	12	7	7	0	14	13	3	4	1	0	0	2	0	6	0	0	0	0
July	12.7	NE.	40	W.	1	0	23	1	1	0	5	18	14	0	11	15	5	11	8	0	0	0	1	0	2	0	11	0
August	11.8	NE.	38	SW.	0	4	26	2	1	0	10	9	14	0	10	11	10	10	6	0	0	0	4	0	0	0	0	0
September	14.0	NE.	43	SW.	1	4	18	2	0	2	13	13	7	0	7	11	12	6	4	3	1	0	3	1	1	0	0	
October	14.0	W.	48	NW.	4	2	10	2	0	2	4	4	19	0	11	10	10	6	4	3	1	0	0	0	0	0	0	
November	12.1	NW.	44	NW.	2	2	4	4	4	4	4	19	24	0	2	9	19	11	6	15	8	0	1	22	0	30	0	0
December	12.9	NW.	48	NW.	3	3	3	2	6	2	13	12	21	0	7	15	9	10	5	14	10	0	0	29	0	31	0	1
Year	13.2	NE.	56	SW.	27	46	194	22	17	21	123	143	164	0	112	141	112	92	61	70	38	1	19	111	8	163	29	7

DURANGO, COLO.

[H=6,546 ft.; h₁=18 ft.; h₂=3 ft.; h₃=56 ft.]

January	5.0	NW.	28	W.	0	7	1	0	3	8	7	11	24	1	14	9	8	9	8	9	6	0	0	6	0	28	0	0
February	5.5	NW.	26	W.	0	4	3	0	3	12	3	10	21	0	10	12	6	7	6	11	7	0	0	4	0	28	0	0
March	6.2	NW.	28	W.	0	2	4	2	1	7	5	14	27	0	14	15	2	5	4	4	4	0	0	0	0	28	1	0
April	6.9	NW.	32	W.	0	8	5	2	1	5	4	7	27	1	9	16	5	6	5	2	2	0	1	0	0	12	2	0
May	6.7	NW.	32	SW.	0	4	3	0	3	2	6	13	31	0	11	17	3	4	1	1	0	0	0	0	0	3	1	0
June	6.4	NW.	26	SW.	0	4	3	1	0	2	13	37	0	0	15	14	1	3	3	0	0	0	0	0	0	0	5	0
July	5.9	NW.	34	N.	0	8	7	1	0	1	0	8	37	0	3	27	1	12	6	0	0	0	0	0	6	0	19	0
August	5.5	NW.	24	S.	0	7	7	0	1	3	2	9	33	0	6	22	3	11	7	7	0	0	0	0	1	0	8	0
September	5.7	NW.	24	S.	0	2	4	0	0	12	5	4	9	34	0	14	13	3	3	0	0	0	0	0	0	0	3	0
October	5.5	NW.	34	NW.	0	2	2	0	2	13	4	5	29	0	15	10	0	0	0	2	2	0	0	0	0	13	2	0
November	5.0	NW.	20	SW.	0	1	1	2	0	10	2	5	34	0	0	14	6	9	8	7	4	0	0	0	0	27	0	0
December	4.7	NW.	28	W.	0	4	1	0	2	9	4	8	34	0	12	13	6	8	5	7	6	0	0	3	0	30	0	0
Year	5.8	NW.	34	N.	0	53	41	8	28	75	43	112	368	2	139	176	50	88	63	40	29	1	0	13	7	167	41	0

EASTPORT, ME.

[H=76 ft.; h₁=67 ft.; h₂=62 ft.; h₃=85 ft.]

January	14.0	W.	56	SE.	3	9	3	1	4	6	14	15	10	0	7	5	19	14	12	8	7	0	0	0	0	28	0	0
February	14.1	W.	60	NE.	0	7	2	1	4	11	17	6	6	0	7	6	15	16	16	12	12	0	0	18	0	25	0	0
March	12.8	S.	47	E.	2	2	7	4	2	12	13	10	12	0	9	10	12	11	9	5	5	0	0	4	0	22	1	5
April	10.7	S.	38	SE.	0	3	8	7	2	17	10	2	11	0	8	8	14	15	10	2	2	0	0	8	0	6	0	5
May	10.3	S.	36	NE.	0	8	6	4	2	23	6	7	15	1	4	14	13	12	10	1	1	0	7	0	0	2	2	0
June	9.3	S.	36	E.	0	3	7	6	0	18	8	4	14	0	3	17	10	16	14	0	0	0	4	0	0	0	4	2
July	8.0	S.	40	E.	1	3	6	1	0	30	14	3	4	1	4	16	11	9	6	0	0	0	0	0	0	0	7	1
August	7.7	S.	26	S.	0	3	4	3	2	23	12	9	6	0	12	10	9	6	3	0	0	0	6	0	0	0	1	1
September	9.2	S.	29	NE.	0	7	5	2	1	13	8	6	16	2	9	7	14	12	6	0	0	0	2	0	0	0	0	4
October	12.5	W.	39	W.	0	6	5	3	1	10	12	13	0	0	6	6	19	15	10	0	0	0	0	0	0	1	1	4
November	13.5	W.	46	NE.	3	11	8	2	3	4	6	18	8	0	2	7	21	13	10	6	5	0	0	1	0	16	0	0
December	13.7	W.	42	W.	4	5	2	1	2	6	5	27	14	0	0	7	24	14	10	12	11	0	1	17	0	29	0	0
Year	11.3	S.	60	NE.	15	68	68	36	20	166	119	130	119	4	71	113	181	153	116	46	43	1	36	52	0	127	16	22

ELKINS, W. VA.

[H=1,940 ft.; h₁=41 ft.; h₂=34 ft.; h₃=50 ft.]

January	4.3	W.	24	W.	0	11	2	1	0	9	8	20	8	3	4	5	22	18	15	19	11	0	0	7	0	29	0	0
February	5.4	W.	19	W.	0	10	0	1	0	9	5	27	9	7	14	12	15	13	10	17	18	0	0	8	0	23	0	0
March	3.3	W.	19	W.	0	12	1	2	2	9	13	9	9	7	14	12	15	9	4	4	2	0	4	1	0	15	2	0
April	4.0	SW.	23	SW.	0	0	4	5	8	9	12	11	8	3	9	8	13	16	15	5	1	0	4	0	0	6	3	0
May	4.0	W.	20	W.	0	11	1	1	6	7	5	14	16	1	9	10	12	18	14	1	0	1	0	0	0	4	3	0
June	3.1	W.	22	N.	0	7	5	6	8	7	5	11	8	3	3	13	14	17	16	0	0	1	7	0	0	0	8	0
July	3.0	W.	24	W.	0	14	3	1	11	8	4	13	6	2	5	16	10	15	11	0	0	0	5	0	2	0	6	0
August	2.8	S.	16	W.	0	9	2	5	10	12	4	7	10	3	10	13	8	9	8	0	0	1	17	0	1	0	3	0
September	2.4	NW.	15	S.	0	8	2	0	7	8	5	10	16	4	4	20	6	17	12	0	0	1	8	0	0	0	6	0
October	4.0	W.	22	W.	0	7	2	3	12	6	9	9	8	6	11	13	7	9	9	2	1	0	6	0	0	5	1	0
November	4.7	W.	25	W.	0	4	1	3	2	6	8	23	13	0	4	4	22	15	10	13	8	0	2	6	0	27	1	0
December	4.6	W.	24	S.	0	2	0	2	3	5	13	20	16	1	4													

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

EL PASO, TEX.

[$\phi=31^{\circ} 47' N.$; $\lambda=106^{\circ} 30' W.$]

Month.	Pressure.			Temperature.						Moisture.					Cloudiness.						
	Extremes.		Monthly mean.	Mean.			Extremes.			Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.					
	Maximum.	Minimum.		Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	Maximum.		Minimum.	8 a. m.	8 p. m.	Total.		Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.		
	In.	In.	In.	°	°	°	°	°	°	°	°	°	In.	In.	In.	In.	°	°	°		
January.....	26.275	26.629	26.020	37.9	54.9	58.6	34.7	46.6	77	13	22	20	67.2	67.2	0.126	0.125	0.21	0.21	2.3	3.6	3.7
February.....	26.207	26.586	25.896	38.0	57.4	61.0	34.7	47.8	76	12	15	14	44	19	103	084	0.10	0.10	1.4	2.0	2.6
March.....	26.210	26.409	25.936	48.9	71.6	75.2	46.7	61.0	86	36	26	19	42	15	143	075	T.	T.	1.5	1.8	2.4
April.....	26.171	26.386	25.831	52.1	74.8	77.3	50.0	63.6	92	34	24	15	36	12	136	094	T.	T.	1.5	2.1	2.1
May.....	26.134	26.304	25.921	62.2	83.8	86.4	61.1	73.8	98	50	32	21	35	12	196	122	T.	T.	1.9	2.9	2.8
June.....	26.113	26.352	25.906	69.3	89.9	93.4	68.0	80.7	101	61	44	34	44	19	307	222	1.35	1.02	1.7	3.6	2.5
July.....	26.138	26.280	25.922	73.2	91.7	95.4	71.0	83.2	102	64	51	43	45	21	380	293	1.60	0.59	2.7	4.5	3.2
August.....	26.167	26.360	26.003	72.5	89.4	93.4	71.0	82.2	101	65	55	50	56	28	442	365	1.18	0.38	3.4	3.9	3.6
September.....	26.199	26.393	25.956	67.4	85.4	89.1	66.1	77.6	97	59	48	42	51	25	347	282	0.24	0.09	2.1	3.0	3.0
October.....	26.228	26.601	25.921	53.0	72.8	77.0	50.0	63.5	90	35	30	29	43	22	171	163	0.02	0.01	1.7	2.1	2.0
November.....	26.220	26.427	25.972	43.8	63.8	69.0	40.9	55.0	78	31	27	23	51	24	149	139	0.03	0.02	1.1	1.6	2.1
December.....	26.267	26.471	25.915	38.0	54.3	57.9	34.9	40.4	72	22	21	20	52	30	119	117	0.30	0.25	3.1	4.2	4.5
Year.....	26.194	26.629	25.831	54.7	74.2	77.8	52.4	65.1	102	12	33	28	46	21	218	173	4.03	1.02	2.0	2.9	2.9

ERIE, PA.

[$\phi=42^{\circ} 7' N.$; $\lambda=80^{\circ} 5' W.$]

January.....	29.273	29.906	28.257	25.6	27.9	32.0	21.4	27.0	48	-7	21	24	83	84	0.116	0.130	4.00	1.33	9.3	8.5	8.9
February.....	29.323	29.803	28.909	20.7	26.2	31.6	15.8	23.7	49	-1	15	19	79	77	0.085	0.107	4.02	1.28	7.6	6.7	7.2
March.....	29.283	29.538	28.816	40.0	43.6	51.3	34.6	43.0	82	19	30	32	68	65	173	186	5.53	3.4	4.8	3.1	4.5
April.....	29.132	29.830	28.761	45.9	48.6	56.5	40.0	48.2	82	31	38	38	74	70	234	243	2.23	1.02	6.2	7.4	6.7
May.....	29.222	29.612	28.763	51.8	54.5	61.0	46.7	53.8	81	37	42	46	72	74	286	328	3.48	0.84	5.5	6.5	5.8
June.....	29.189	29.450	28.742	63.0	66.1	70.0	57.3	63.6	83	42	53	54	72	67	419	428	2.01	0.46	5.3	5.2	5.4
July.....	29.172	29.463	28.965	71.0	73.4	79.0	64.5	71.8	91	56	59	60	67	65	512	533	3.82	2.18	3.8	4.6	3.6
August.....	29.259	29.487	28.917	68.1	71.9	77.7	62.2	70.0	88	49	57	59	67	64	472	502	1.76	0.66	3.9	5.4	4.5
September.....	29.316	29.581	29.031	60.9	63.9	69.6	56.9	63.2	86	46	55	57	81	78	446	475	2.57	0.85	6.1	4.8	5.7
October.....	29.234	29.630	28.810	52.4	55.2	62.1	47.6	54.8	80	32	44	44	74	67	313	307	5.00	1.86	5.7	3.6	5.4
November.....	29.107	29.474	28.610	36.2	37.8	41.6	33.3	37.4	60	28	30	30	76	73	163	164	3.45	0.71	9.4	8.9	9.0
December.....	29.268	29.852	28.623	24.6	26.6	31.0	20.9	26.0	47	10	19	23	78	86	103	125	2.89	0.63	8.9	8.1	8.2
Year.....	29.232	29.906	28.257	46.7	49.6	55.3	41.8	48.5	91	-1	39	40	74	72	278	294	35.76	2.18	6.4	6.1	6.2

ESCANABA, MICH.

[$\phi=45^{\circ} 48' N.$; $\lambda=87^{\circ} 5' W.$]

January.....	29.377	30.066	28.595	13.8	20.0	25.7	9.0	17.4	37	-9	10	14	84	77	0.072	0.086	1.52	0.68	6.8	5.5	6.4
February.....	29.425	29.901	28.924	8.3	16.6	23.5	5.0	14.2	38	-15	4	9	80	70	0.055	0.070	1.47	0.63	6.0	5.6	5.2
March.....	29.325	29.674	28.824	30.1	36.6	44.9	26.2	35.6	75	12	24	28	78	71	134	154	2.7	0.14	5.8	4.7	4.5
April.....	29.261	29.608	28.674	37.8	42.2	48.3	34.1	41.2	59	27	33	32	83	70	188	188	4.87	1.50	6.1	6.6	6.4
May.....	29.351	29.896	28.804	43.9	48.0	53.5	38.7	46.1	66	26	35	34	76	61	224	206	1.60	1.04	4.4	4.4	4.1
June.....	29.341	29.575	28.962	59.4	67.2	72.6	54.3	63.4	94	36	51	52	74	59	389	405	1.06	0.45	2.9	3.4	3.3
July.....	29.264	29.608	28.978	62.7	69.8	75.7	57.4	66.6	100	49	55	57	76	64	435	470	1.84	0.74	3.5	3.8	4.3
August.....	29.328	29.640	28.970	60.1	65.4	70.8	56.0	63.4	77	44	56	57	87	76	459	478	5.22	2.15	5.7	5.8	5.7
September.....	29.405	29.782	28.944	52.6	58.1	63.1	48.5	55.8	74	41	48	51	84	78	338	379	3.39	1.30	5.4	4.6	5.2
October.....	29.309	29.653	28.852	44.4	49.9	55.0	41.1	48.6	71	21	39	44	89	80	252	297	3.04	1.56	5.8	4.9	6.1
November.....	29.288	29.677	28.984	29.9	31.5	36.1	27.2	31.6	49	20	27	28	86	84	144	150	1.81	1.01	9.0	8.0	9.3
December.....	29.363	29.969	28.755	19.2	21.9	26.8	14.7	20.8	36	-3	16	18	84	81	087	097	1.34	0.52	8.8	9.3	7.6
Year.....	29.336	30.066	28.595	38.5	43.9	49.8	34.4	42.1	100	-15	33	35	81	73	231	248	27.43	2.15	5.9	5.6	5.7

EUREKA, CAL.

[$\phi=40^{\circ} 48' N.$; $\lambda=124^{\circ} 11' W.$]

January.....	30.052	30.516	29.393	42.1	47.3	50.1	39.1	44.6	65	28	38	40	84	77	0.231	0.251	7.26	1.85	7.0	8.6	7.7
February.....	30.139	30.447	29.754	42.8	49.3	51.5	40.0	45.8	59	29	39	42	86	78	243	276	7.34	2.63	7.3	6.8	7.0
March.....	30.047	30.426	29.642	46.3	51.5	54.3	44.8	49.6	66	35	43	46	90	81	284	308	1.97	0.08	5.8	6.6	7.3
April.....	30.068	30.321	29.534	47.2	52.3	55.5	45.4	50.4	65	38	43	45	86	78	279	305	83	0.29	6.1	5.1	6.4
May.....	30.053	30.312	29.840	49.8	55.9	59.3	48.2	53.8	74	43	46	47	87	75	309	327	84	0.27	6.9	3.7	6.0
June.....	30.082	30.222	29.851	50.0	54.8	57.0	49.2	53.1	63	46	46	47	88	77	315	328	49	0.15	8.8	3.9	6.6
July.....	29.954	30.102	29.726	51.6	56.1	58.4	50.9	54.6	63	47	48	50	89	80	337	358	00	0.00	8.2	5.2	7.1
August.....	29.977	30.153	29.796	50.0	55.3	57.5	49.3	53.4	65	46	47	49	90	79	325	344	00	0.00	7.4	4.9	6.7
September.....	29.975	30.199	29.726	49.7	55.4	57.5	48.7	53.1	66	44	47	49	92	80	327	349	01	0.01	3.3	3.3	6.1
October.....	30.037	30.314	29.641	49.5	54.9	58.0	47.8	52.9	66	42	48	50	93	85	332	366	82	0.82	3.8	4.3	5.9
November.....	30.023	30.242	29.820	48.2	52.8	56.3	44.9	50.6	66	34	45	47	89	81	304	326	6.86	1.65	7.1	7.0	7.9
December.....	30.135	30.364	29.797	47.0	51.4	54.5	43.9	49.2	65	34	43	47	87	84	284	319	3.43	1.07	4.7	6.4	6.9
Year.....	30.043	30.516	29.393	47.8	53.1	55.8	46.0	50.9	74	28	44	47	88	80	297	321	29.65	2.63	6.4	5.5	6.8

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

EVANSVILLE, IND.

[$\phi=37^{\circ} 58' N.$; $\lambda=87^{\circ} 33' W.$]

Month.	Pressure.			Temperature.						Moisture.												
	Monthly mean.	Extremes.		Mean.			Extremes.			Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.						
		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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.	
																						In.
January.....	29.665	30.278	29.060	29.8	.....	41.1	26.6	33.8	60	1	26	.....	85	.....	0.146	.....	2.99	0.86	7.2	.....	6.6
February.....	29.723	30.026	29.405	28.7	.....	40.5	24.3	32.4	58	1	22	.....	83	.....	.125	.....	2.99	1.10	5.2	.....	5.4
March.....	29.636	29.879	29.466	48.0	.....	67.0	47.4	57.2	86	24	38	.....	70	.....	.240	.....	.01	.01	3.5	.....	3.7
April.....	29.438	29.829	29.182	50.5	.....	65.6	47.5	56.6	81	30	44	.....	78	.....	.299	.....	4.29	1.00	5.6	.....	5.3
May.....	29.550	29.937	29.208	57.0	.....	70.7	54.0	62.4	83	42	49	.....	76	.....	.362	.....	2.63	.75	5.2	.....	5.2
June.....	29.509	29.719	29.275	66.7	77.8	82.8	63.0	72.9	95	45	59	62	77	60	.618	.567	3.12	1.73	3.0	5.0	5.0	4.7
July.....	29.478	29.727	29.266	73.0	79.8	85.7	69.8	77.8	92	61	65	70	85	72	.700	.731	10.32	2.52	5.4	5.2	5.3	
August.....	29.546	29.760	29.417	70.1	78.6	85.4	66.5	76.0	93	54	63	68	80	66	.593	.643	.96	1.37	3.6	3.2	4.1	
September.....	29.600	29.836	29.574	65.5	74.5	81.6	62.9	72.2	91	52	61	63	80	69	.553	.593	3.39	1.90	4.6	3.2	4.8	
October.....	29.591	29.969	29.187	53.1	63.3	71.3	51.4	61.4	90	29	49	52	85	68	.369	.418	11.19	6.94	2.3	2.0	3.0	
November.....	29.576	29.866	29.188	36.3	44.9	51.1	33.3	42.2	68	24	31	33	80	63	.177	.196	1.13	1.02	3.8	3.4	3.0	
December.....	29.692	30.278	29.239	28.2	34.3	39.6	25.4	32.5	57	15	23	25	80	69	.128	.137	2.94	1.44	5.3	3.6	4.7	
Year.....	29.584	30.278	29.182	50.4	.....	65.2	47.7	56.4	95	1	44.4	.....	80.4	.....	.351	.....	45.56	6.94	4.6	.....	4.7

FLAGSTAFF, ARIZ.

[$\phi=35^{\circ} 12' N.$; $\lambda=111^{\circ} 37' W.$]

January.....	23.359	23.676	23.058	18.0	30.8	39.6	13.7	26.6	59	-22	14	20	84	64	0.093	0.108	3.17	2.13	3.5	4.9	4.5
February.....	23.319	23.556	22.997	20.5	36.9	42.6	15.4	29.0	58	-12	14	19	76	47	.083	.102	.88	.64	3.3	4.7	4.5
March.....	23.384	23.549	23.066	28.1	50.6	56.8	25.4	41.1	68	3	24	25	82	40	.125	.135	2.65	2.13	2.3	3.7	3.8
April.....	23.370	23.560	23.106	30.7	55.7	60.9	28.6	44.8	76	20	23	20	74	30	.123	.113	.52	.33	3.2	4.0	4.1
May.....	23.373	23.544	23.170	38.0	66.8	71.8	34.9	53.4	88	22	24	21	57	18	.128	.111	.61	.03	2.8	3.8	3.2
June.....	23.383	23.502	23.223	44.3	73.7	78.5	41.3	59.9	87	31	28	27	54	22	.162	.159	.37	.56	1.3	1.6	1.5
July.....	23.454	23.565	23.325	51.7	73.5	80.8	49.9	65.4	91	36	44	46	76	44	.295	.332	3.07	1.60	3.5	6.3	4.9
August.....	23.482	23.575	23.348	51.5	70.5	77.6	50.0	63.8	85	44	48	49	88	50	.334	.359	3.74	1.23	5.3	6.0	5.7
September.....	23.456	23.615	23.307	43.4	69.0	75.8	42.2	59.0	83	30	37	35	79	32	.233	.217	.81	.34	1.3	2.3	2.7
October.....	23.421	23.618	23.200	34.5	54.9	63.6	30.9	47.2	81	16	25	24	68	32	.139	.132	.54	.29	2.4	2.8	2.9
November.....	23.378	23.547	23.076	28.9	42.8	54.9	24.9	39.9	68	16	23	28	86	58	.126	.152	1.28	.82	3.1	3.1	3.4
December.....	23.375	23.527	23.033	24.7	35.7	46.8	19.5	33.2	62	0	18	20	74	53	.096	.105	.95	.44	4.5	5.4	5.3
Year.....	23.366	23.676	22.997	34.4	55.1	62.5	31.4	46.9	91	-22	27	28	75	41	.161	.169	18.25	2.13	3.0	4.0	3.9

FORT SMITH, ARK.

[$\phi=35^{\circ} 22' N.$; $\lambda=94^{\circ} 24' W.$]

January.....	29.681	30.144	29.230	34.3	45.8	51.5	31.9	41.7	76	12	26	29	72	53	0.150	0.170	1.18	0.45	4.7	4.7	4.5
February.....	29.684	30.054	29.279	31.7	42.9	48.9	28.4	38.6	72	1	23	26	69	52	.134	.149	1.82	.82	6.0	6.2	5.5
March.....	29.609	29.828	29.270	51.9	68.3	73.7	50.1	61.9	87	36	40	40	66	39	.256	.266	.87	.54	4.3	3.6	3.5
April.....	29.477	29.781	29.132	52.3	65.8	70.2	49.7	60.0	86	33	44	43	75	48	.310	.305	2.22	.83	5.5	4.4	5.0
May.....	29.515	29.837	29.182	60.0	71.9	75.5	56.9	66.2	89	45	53	55	78	58	.409	.450	4.82	1.94	6.4	5.9	5.7
June.....	29.457	29.738	29.101	69.4	79.7	86.2	66.0	76.1	97	54	63	64	82	61	.589	.608	3.04	1.23	4.4	5.0	4.1
July.....	29.446	29.669	29.276	74.6	86.6	91.6	71.4	81.5	103	63	68	68	80	56	.690	.688	2.71	.80	4.4	5.4	4.4
August.....	29.465	29.686	29.316	73.3	83.6	90.0	71.8	80.9	104	59	69	70	87	66	.720	.751	3.91	1.29	6.4	4.6	4.9
September.....	29.545	29.771	29.246	69.2	80.9	90.1	67.5	78.8	96	60	64	64	84	60	.605	.615	1.09	.74	3.0	3.1	2.9
October.....	29.571	30.043	29.191	53.1	67.4	74.9	51.5	63.2	92	28	48	48	85	54	.372	.383	2.69	1.22	2.7	2.6	2.8
November.....	29.564	29.961	29.190	43.0	56.8	63.7	40.4	52.0	82	29	34	35	71	45	.207	.218	.45	.35	4.3	3.3	3.4
December.....	29.676	30.132	29.242	34.3	44.9	50.9	32.1	41.5	65	21	25	28	68	53	.139	.160	.59	.31	5.4	4.5	4.9
Year.....	29.559	30.144	29.101	53.9	66.2	72.3	51.5	61.9	104	1	46	48	76	54	.382	.396	25.39	1.94	4.8	4.4	4.3

FORT WORTH, TEX.

[$\phi=32^{\circ} 43' N.$; $\lambda=97^{\circ} 15' W.$]

January.....	29.454	29.862	29.134	40.0	.....	59.1	37.2	48.2	79	15	33	.....	77	.....	0.205	.....	1.36	0.52	4.8	4.0	4.5
February.....	29.439	29.837	28.981	37.3	.....	56.6	32.6	44.6	77	11	32	.....	79	.....	.193	.....	1.14	.87	5.3	3.6	4.2
March.....	29.369	29.537	28.943	53.8	.....	76.4	52.4	64.4	90	37	46	.....	75	.....	.314	.....	1.02	.91	3.7	3.4	3.2
April.....	29.372	29.546	28.941	55.2	.....	76.2	53.1	64.6	90	33	46	.....	70	.....	.297	.....	2.65	1.65	3.9	3.5	3.6
May.....	29.266	29.568	28.960	62.3	.....	80.5	60.1	70.3	93	48	54	.....	76	.....	.451	.....	5.76	2.65	5.6	4.9	4.7
June.....	29.207	29.483	28.853	70.3	.....	91.1	68.8	80.0	104	57	62	.....	70	.....	.575	.....	1.38	.87	3.8	3.2	3.4
July.....	29.209	29.396	29.061	75.1	92.3	95.8	74.3	85.0	105	66	66	61	75	37	.650	.537	.14	.14	2.3	3.3	3.5
August.....	29.221	29.429	29.079	77.3	91.7	96.3	76.4	86.4	104	67	67	62	71	39	.660	.555	.26	.18	4.8	4.4	4.4
September.....	29.287	29.471	29.000	71.3	88.0	92.0	70.4	81.2	97	61	63	59	77	39	.591	.503	2.21	1.86	3.6	3.6	3.0
October.....	29.325	29.666	28.961	57.5	73.6	79.8	55.1	67.4	90	31	48	45	72	40	.371	.322	.68	.52	3.7	2.9	3.2
November.....	29.321	29.744	29.024	49.9	63.2	70.2	47.1	58.6	87	32	38	42	65	46	.250	.283	.14	.07	3.8	4.1	3.7
December.....	29.422	29.828	28.946	40.9	52.6	58.0	37.8	47.9	77	26	32	35	71	54	.187	.219	1.23	.85	4.8	5.8	5.0
Year.....	29.316	29.866	28.941	57.6	.....	77.7	55.4	66.6	106	11	49	.....	74	.....	.866	.....	17.97	265	4.3	3.9	3.9

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

EL PASO, TEX.

[H=3,762 ft.; h₁=110 ft.; h₂=102 ft.; h₃=133 ft.]

Month.	Wind.											Number of days.																		
	By self-register.				Number of winds, 8 a. m. and 8 p. m.							Precipitation.	Snow.	Fog.	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.	T. or more.	0.01 inch or more melted.	Hail.	Fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January....	9.9	NW.	43	W.	1	1	11	7	5	1	1	7	29	0	14	12	5	2	2	0	0	0	0	0	0	0	11	1	0	0
February....	11.8	W.	57	NE.	1	1	5	5	9	0	4	18	13	1	18	9	1	1	1	0	0	0	0	0	0	11	0	0	0	0
March.....	10.4	E.	57	W.	3	3	8	13	11	2	3	13	10	0	19	11	1	0	0	0	0	0	0	0	0	6	0	0	0	0
April.....	11.9	W.	43	NE.	2	2	6	11	8	0	2	19	12	0	20	8	2	0	0	0	0	0	0	0	0	2	0	0	0	0
May.....	13.2	W.	44	NW.	2	2	6	12	11	1	5	18	9	0	21	7	3	0	0	0	0	0	0	0	0	9	0	0	0	0
June.....	11.5	NW.	44	SW.	1	1	7	9	16	1	0	13	12	1	21	7	2	5	4	0	0	0	0	0	0	23	0	2	0	0
July.....	10.9	SE.	44	NE.	1	1	16	14	20	1	1	2	9	9	16	15	0	2	2	1	0	0	0	0	0	28	0	6	0	0
August.....	16.7	NE.	47	NE.	2	2	13	13	13	1	1	4	6	10	16	15	0	2	0	0	0	0	0	0	0	24	0	11	0	0
September..	9.5	E.	41	SW.	1	1	11	21	12	2	0	6	8	0	19	9	2	0	0	0	0	0	0	0	0	16	0	3	0	0
October....	10.1	E.	41	NW.	2	2	12	11	14	1	3	6	15	0	23	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0
November..	8.7	NW.	42	W.	1	2	1	12	5	2	1	21	16	0	22	8	0	0	0	0	0	0	0	0	0	2	0	0	0	0
December..	9.5	NW.	53	SW.	2	4	8	9	7	0	2	13	18	1	11	14	6	2	2	0	0	0	1	0	0	10	0	0	0	0
Year.....	10.7	NW.	57	NE.	29	16	94	137	131	12	27	149	161	3	220	122	23	30	21	0	0	0	1	0	102	34	21	0	0	0

FRIE, PA.

[H=714 ft.; h₁=92 ft.; h₂=82 ft.; h₃=102 ft.]

January....	12.0	S.	48	SE.	1	2	4	6	3	18	10	12	7	0	1	4	26	18	14	20	0	0	0	16	0	30	1	0	0	0	
February....	12.5	S.	40	SW.	0	3	7	1	4	15	12	9	4	0	3	9	16	16	13	13	0	0	0	16	0	0	0	0	0	0	
March.....	10.0	W.	31	NW.	0	0	6	5	3	14	15	13	4	0	10	16	5	7	3	4	0	1	2	3	0	15	3	0	0	0	
April.....	10.4	S.	52	SE.	2	1	9	6	4	15	12	11	2	2	6	8	16	12	8	2	0	1	0	0	4	2	4	2	0	0	
May.....	9.1	W.	35	S.	0	2	7	3	10	5	22	3	0	0	8	9	14	17	13	0	0	1	0	0	0	4	4	1	0	0	
June.....	8.1	W.	25	SW.	0	5	8	5	4	4	17	15	1	1	8	12	10	7	7	0	0	0	0	0	0	3	3	0	0	0	
July.....	8.7	W.	38	SW.	0	4	8	1	1	16	13	12	7	0	13	16	2	10	9	0	0	0	0	0	1	0	7	0	0	0	
August.....	9.7	S.	34	SW.	0	5	9	12	2	25	8	6	4	4	14	13	4	9	7	0	0	0	0	0	0	6	0	0	0	0	
September..	8.6	S.	20	S.	0	2	3	2	2	19	7	5	5	1	10	9	11	11	9	0	0	0	0	0	0	0	0	0	0	0	
October....	12.3	S.	35	W.	0	0	8	11	5	12	12	12	1	1	9	13	9	9	3	0	0	1	0	0	0	0	0	0	0	0	0
November..	14.0	W.	41	NW.	1	2	1	3	2	11	10	15	16	0	4	26	23	14	17	0	0	0	0	0	0	12	0	0	0	0	
December..	12.7	W.	34	NW.	0	4	3	4	0	20	12	9	10	0	2	6	23	20	14	25	0	1	19	0	0	31	0	0	0	0	
Year.....	10.7	S.	52	SE.	5	41	74	51	33	185	136	131	75	3	84	119	162	156	117	84	1	7	54	1	118	33	2	0	0	0	

ESCANABA, MICH.

[H=612 ft.; h₁=54 ft.; h₂=44 ft.; h₃=60 ft.]

January....	9.5	NW.	32	SE.	0	9	4	2	0	8	7	16	15	1	7	8	16	13	8	21	13	0	3	28	0	31	0	0	0	0	
February....	9.9	NW.	40	SW.	0	13	7	1	2	4	10	7	12	0	12	5	11	7	7	13	7	0	0	20	0	28	0	0	0	0	
March.....	10.1	S.	44	W.	1	7	8	5	3	12	14	5	8	0	15	8	8	6	3	8	3	0	4	0	21	2	4	0	0	0	
April.....	11.4	N.	47	N.	1	22	8	5	6	16	1	1	1	1	7	8	15	13	8	7	4	0	2	0	0	10	4	0	0	0	
May.....	10.4	S.	30	N.	0	18	9	0	3	13	7	5	7	7	16	7	8	11	4	0	0	1	0	0	4	1	1	0	0		
June.....	7.4	S.	25	NE.	0	14	8	2	4	13	10	2	7	0	17	9	4	2	7	3	0	0	0	0	2	0	0	0	0	0	
July.....	8.4	S.	31	NE.	0	12	9	2	2	12	12	6	7	0	12	12	7	8	5	0	0	0	0	0	2	0	5	0	0	0	
August.....	8.2	S.	27	NW.	0	9	11	6	2	13	6	3	12	0	8	9	14	8	9	0	0	2	1	0	0	0	0	0	0	0	0
September..	10.2	S.	32	N.	0	5	16	2	2	17	10	7	6	3	10	8	12	11	9	0	0	0	0	0	0	0	0	0	0	0	0
October....	10.3	S.	38	NE.	0	7	8	0	2	4	2	7	14	0	8	0	16	8	7	2	2	2	0	0	0	3	3	0	0	0	
November..	10.6	NW.	27	NW.	0	6	0	2	4	2	7	10	29	0	4	26	13	7	17	10	0	0	5	0	27	0	0	0	0	0	
December..	9.3	NW.	31	S.	0	7	7	4	0	4	11	8	21	0	5	6	20	13	4	24	13	0	0	26	0	31	0	0	0	0	
Year.....	9.6	NW.	47	N.	2	129	89	35	31	123	108	75	139	1	117	91	157	118	72	92	52	2	9	83	4	155	27	6	0	0	

EUREKA, CAL.

[H=62 ft.; h₁=62 ft.; h₂=55 ft.; h₃=80 ft.]

January....	7.6	SE.	45	NW.	1	5	2	3	30	10	6	3	2	1	4	9	18	22	19	0	0	2	0	0	0	4	1	0	0	0
February....	6.8	SE.	38	W.	0	10	4	7	11	11	4	7	2	0	5	6	17	18	15	0	0	1	1	0	0	2	0	0	0	0
March.....	6.5	N.	33	NW.	0	20	4	6	8	3	5	7	9	0	4	9	18	14	9	0	0	10	0	0	0	0	0	0	0	0
April.....	8.2	N.	38	SE.	0	19	6	2	7	4	7	4	11	0	8	8	14	10	7	7	0	0	4	0	0	0	0	0	0	0
May.....	7.0	N.	38	NW.	0	15	0	3	3	8	8	11	6	15	1	6	10	15	7	6	0	0	4	0	0	0	0	0	0	0
June.....	8.5	NW.	37	NW.	0	14	2	3	3	4	4	7	23	0	3	14	13	6	4	0	0	2	0	0	0	0	0	0	0	0
July.....	6.8	NW.	29	N.	0	8	0	0	2	12	6	9	25	0	4	13	14	0	0	0	0	5	0	0	0	0	0	0	0	0
August.....	5.9	NW.	37	NW.	0	8	1	0	0	12	8	13	19	1	6	8	17	0	0	0	0	4	0	0	0	0	0	0	0	0
September..	5.0	N.	33	NW.	0	16	2	2	3	6	5	1																		

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

FRESNO, CAL.

[$\phi=36^{\circ} 43' N.$; $\lambda=119^{\circ} 49' W.$]

Month.	Pressure.				Temperature.						Moisture.										
	Extremes.		Mean.		Extremes.		Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.								
	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.		Monthly.	Maximum.	Minimum.	8 a. m.		8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.			
Monthly mean.	In.	In.	In.	°	°	°	°	°	°	°	°	In.	In.	In.	In.	8 a. m.	8 p. m.	Daylight.			
January.....	29.823	30.164	29.277	38.7	49.6	53.1	35.8	44.4	69	25	37	39	92	8	0.223	0.245	1.22	0.26	5.5	4.8	7.0
February.....	29.840	29.975	29.528	41.1	56.7	59.7	38.5	49.1	73	26	37	40	85	55	.228	.255	.21	.10	3.7	4.4	5.5
March.....	29.697	29.957	29.395	50.3	68.4	71.9	47.7	59.8	84	38	46	47	87	48	.315	.326	1.28	.44	4.1	4.4	4.7
April.....	29.609	29.811	29.451	52.6	77.0	80.1	50.3	65.2	101	44	46	43	79	32	.308	.283	.27	.22	3.2	2.9	3.3
May.....	29.604	29.747	29.530	55.5	85.9	87.5	54.4	71.0	110	41	45	41	69	22	.297	.263	T.	T.	2.3	2.0	2.4
June.....	29.536	29.726	29.281	57.7	88.5	90.6	57.0	73.8	107	51	42	36	57	17	.266	.218	T.	T.	.8	.8	0.9
July.....	29.479	29.663	29.245	66.7	98.4	100.3	66.0	83.2	110	51	45	41	48	14	.307	.263	T.	T.	.5	1.6	1.3
August.....	29.501	29.657	29.343	64.1	99.2	100.6	62.7	78.5	102	48	45	41	61	23	.271	.192	T.	0	3.7	3.3	0.4
September.....	29.534	29.693	29.333	63.3	87.8	89.8	62.7	73.5	102	48	45	41	61	23	.311	.270	1.00	1.00	1.5	1.8	1.8
October.....	29.631	29.875	29.410	54.9	76.2	80.2	53.4	66.8	98	46	46	45	74	36	.314	.299	.45	.43	2.0	2.0	2.1
November.....	29.720	29.917	29.437	45.4	62.6	66.7	43.1	54.9	78	34	42	46	90	57	.321	.321	.24	.13	3.1	4.2	4.1
December.....	29.803	29.965	29.634	43.1	54.0	57.2	40.6	48.9	70	28	41	43	91	67	.259	.280	.21	.12	5.3	5.9	6.4
Year.....	29.653	30.164	29.245	52.4	75.3	78.1	50.6	64.4	110	25	43	41	73	37	.281	.268	4.88	1.00	2.7	3.0	3.4

GALVESTON, TEX.

[$\phi=29^{\circ} 18' N.$; $\lambda=94^{\circ} 50' W.$]

January.....	30.143	30.523	29.706	52.6	56.1	60.8	49.7	55.2	71	30	48	49	85	79	0.358	0.372	2.05	1.51	4.0	3.9	4.2
February.....	30.101	30.502	29.786	49.2	52.4	56.9	45.2	51.0	72	24	45	45	86	79	.324	.324	4.41	3.74	6.4	4.9	6.5
March.....	30.085	30.214	29.793	61.8	65.5	71.3	60.7	66.0	80	49	58	60	89	82	.499	.525	1.48	1.44	2.8	2.6	2.8
April.....	29.972	30.162	29.602	65.7	70.4	74.1	64.1	69.1	81	45	58	58	78	69	.512	.519	.92	.91	3.4	3.8	3.4
May.....	29.952	30.157	29.703	72.2	74.7	78.2	69.8	74.0	83	61	66	66	81	77	.640	.658	5.10	1.97	4.7	4.1	3.7
June.....	29.906	30.065	29.700	76.5	80.1	83.4	75.0	79.2	88	67	70	70	81	73	.744	.748	6.70	3.66	4.1	3.2	3.2
July.....	29.934	30.062	29.763	80.0	82.4	86.0	77.4	81.7	89	66	74	74	82	75	.833	.829	6.19	2.93	4.3	3.8	3.1
August.....	29.910	30.015	29.808	81.6	84.0	87.7	79.9	83.8	90	71	75	74	80	72	.856	.841	2.01	1.24	4.2	5.1	3.4
September.....	29.966	30.106	29.840	78.2	80.9	84.7	76.5	80.6	91	68	72	72	81	74	.779	.780	4.74	1.49	3.6	3.5	3.4
October.....	29.984	30.511	29.701	68.9	73.5	77.2	67.0	72.1	87	47	61	61	77	68	.582	.587	9.35	6.62	3.5	2.0	2.9
November.....	30.014	30.341	29.844	63.1	66.2	70.2	60.9	65.6	78	46	58	59	86	78	.515	.523	.95	.33	3.9	2.8	3.2
December.....	30.110	30.433	29.746	56.2	59.2	62.9	52.7	57.8	73	37	51	51	83	76	.401	.404	3.58	1.17	5.9	4.8	6.2
Year.....	30.006	30.523	29.602	67.2	70.4	74.4	64.9	69.7	91	24	61	62	82	75	.587	.592	47.49	6.62	4.2	3.8	3.9

GRAND HAVEN, MICH.

[$\phi=43^{\circ} 5' N.$; $\lambda=86^{\circ} 13' W.$]

January.....	29.357	30.023	28.503	24.4	24.3	30.0	18.5	24.2	40	1	22	21	88	86	0.117	0.114	2.41	0.50	9.2	8.2	8.0
February.....	29.412	29.870	28.904	20.4	24.3	28.7	16.9	22.8	43	3	17	19	84	79	.093	.107	1.59	.58	7.4	7.4	6.9
March.....	29.346	29.599	29.003	36.9	43.8	50.4	33.2	41.8	72	17	31	33	79	68	.180	.199	.21	.11	3.4	3.9	3.7
April.....	29.192	29.543	28.708	43.7	48.8	57.1	38.0	47.6	75	28	37	40	78	74	.231	.258	2.88	.99	5.0	5.8	5.3
May.....	29.323	29.814	28.938	47.9	50.9	57.4	41.2	49.3	73	31	41	40	78	67	.269	.252	4.50	1.25	5.1	5.1	5.0
June.....	29.304	29.509	28.921	61.3	67.2	72.9	54.4	63.6	90	39	52	52	74	60	.407	.404	1.23	.67	3.5	2.9	3.3
July.....	29.242	29.596	29.020	68.2	74.2	79.7	61.6	70.6	91	50	60	58	76	58	.533	.488	1.71	.70	3.4	3.3	3.1
August.....	29.313	29.589	29.014	65.3	71.1	76.6	59.1	67.8	86	51	59	60	80	68	.508	.524	3.21	1.92	4.1	4.4	4.5
September.....	29.382	29.717	29.039	55.9	61.2	68.3	50.1	59.2	80	42	52	54	88	78	.409	.427	1.98	.74	4.6	4.4	4.9
October.....	29.301	29.715	28.761	49.2	54.1	61.3	44.6	53.0	80	27	35	47	86	77	.312	.335	2.45	.76	4.7	2.8	4.3
November.....	29.256	29.609	28.925	34.5	35.7	39.7	31.0	35.4	55	27	29	30	81	78	.163	.165	1.91	.43	8.8	8.5	8.5
December.....	29.384	29.959	28.803	25.7	26.7	31.5	20.3	25.9	40	12	21	22	82	80	.114	.115	1.62	.32	8.6	8.2	8.0
Year.....	29.316	30.023	28.503	44.4	48.5	54.5	39.1	46.8	91	1	39	40	81	73	.278	.283	25.73	1.92	5.6	5.4	5.5

GRAND JUNCTION, COLO.

[$\phi=39^{\circ} 09' N.$; $\lambda=108^{\circ} 33' W.$]

January.....	25.501	25.901	25.026	16.4	26.6	33.5	12.1	22.8	52	-10	13	18	85	70	0.081	0.103	0.38	0.18	3.7	4.5	5.1
February.....	25.497	25.872	24.942	23.4	35.2	41.0	21.0	31.0	57	11	18	22	79	56	.099	.115	.14	.10	3.7	3.6	4.3
March.....	25.430	25.860	25.040	39.2	61.2	65.3	37.1	51.2	77	25	27	30	61	33	.144	.169	.11	.11	1.5	3.0	3.1
April.....	25.383	25.694	24.932	43.6	65.2	69.3	41.1	55.2	85	26	29	29	58	29	.162	.162	.32	.16	3.6	4.2	4.1
May.....	25.380	25.634	25.027	50.4	73.7	76.8	48.0	62.4	93	34	32	32	61	24	.181	.182	.26	.24	2.3	3.6	3.6
June.....	25.294	25.563	25.007	64.3	86.6	89.7	61.0	75.4	98	51	51	25	30	14	.177	.150	.25	.24	1.8	3.0	2.7
July.....	25.376	25.572	25.153	66.3	87.7	93.0	64.7	78.8	101	59	45	41	48	24	.308	.283	.96	.68	1.7	5.2	4.2
August.....	25.404	25.572	25.228	64.9	85.4	89.9	63.7	76.8	97	50	46	43	52	25	.291	.291	.60	.42	3.1	4.0	3.9
September.....	25.407	25.602	25.126	58.1	78.0	83.4	56.3	69.8	92	46	41	40	56	28	.277	.258	.92	.57	2.3	2.7	2.4
October.....	25.471	25.764	25.164	41.5	59.1	66.6	39.4	53.0	85	27	29	30	61	36	.159	.173	1.26	.97	2.0	2.1	2.9
November.....	25.423	25.697	25.111	35.7	49.3	56.6	33.6	45.1	66	26	29	30	75	50	.157	.170	1.90	.88	3.3	4.3	4.2
December.....	25.497	25.739	25.121	22.8	33.6	39.7	20.4	30.0	53	-2	19	23	83	66	.104	.125	1.11	.42	3.3	4.3	5.5
Year.....	25.413	25.901	24.932	43.9	61.8	67.1	41.5	54.3	101	-10	30	30	62	38	.178	.182	7.61	.97	2.7	3.7	3.8

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

GRAND RAPIDS, MICH.
[φ=42° 58' N.; λ=85° 40' W.]

Month.	Pressure.		Temperature.						Moisture.												
	Extremes.		Mean.			Extremes.	Dew point.	Relative humidity.	Vapor pressure.	Precipitation.	Cloudiness.										
	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.	
January.....	29.279	29.929	25.450	23.6	24.3	30.1	18.6	24.4	45	2	21	21	85	88	0.112	0.116	2.04	0.68	9.5	7.6	8.6
February.....	29.333	29.780	28.730	19.4	24.6	29.2	16.4	22.8	48	0	15	19	83	78	0.088	0.107	1.15	.60	7.8	6.3	7.5
March.....	29.278	29.528	28.927	38.4	47.7	55.2	34.9	45.0	82	17	31	32	76	57	1.83	1.95	3.08	.04	5.8	5.4	5.0
April.....	29.120	29.488	28.658	44.0	52.9	61.4	39.1	50.2	80	29	35	40	73	64	2.18	2.55	3.16	1.26	5.3	5.9	6.1
May.....	29.248	29.730	28.887	48.7	55.9	62.7	42.8	52.8	80	33	41	42	74	60	2.70	2.75	3.88	1.04	5.9	6.0	5.9
June.....	29.235	29.431	28.833	61.2	72.0	78.2	55.6	66.9	97	37	52	54	73	55	3.99	4.30	1.04	.46	4.2	3.8	4.5
July.....	29.176	29.532	28.967	68.1	77.9	85.3	62.1	73.7	99	52	59	57	74	50	5.12	4.73	1.41	.48	4.3	3.9	4.2
August.....	29.248	29.516	28.955	64.5	74.3	81.4	59.8	70.6	92	48	57	56	77	55	4.77	4.74	3.28	2.84	5.3	5.7	6.0
September.....	29.315	29.648	29.004	56.3	63.2	71.6	52.0	61.8	83	43	51	53	83	70	3.96	4.09	1.58	.61	5.2	5.0	5.6
October.....	29.233	29.649	28.687	48.2	54.8	63.1	44.8	54.0	82	26	43	46	84	74	2.96	3.33	3.15	1.79	5.4	5.2	4.9
November.....	29.172	29.532	28.844	33.5	35.3	39.9	30.2	35.0	60	26	30	30	85	80	1.64	1.65	1.37	.30	8.9	7.1	8.4
December.....	29.286	29.882	28.725	24.3	26.0	30.3	20.0	25.2	38	14	21	22	86	84	1.11	1.18	1.37	.51	9.1	7.0	7.7
Year.....	29.244	29.929	28.450	44.2	50.7	57.4	39.7	48.5	99	0	38	39	80	68	2.68	2.79	23.53	2.84	6.4	5.6	6.2

GREEN BAY, WIS.
[φ=44° 31' N.; λ=88° W.]

January.....	29.377	30.059	28.580	13.8	18.9	24.4	7.8	16.1	40	-18	9	14	80	78	0.073	0.087	1.02	0.37	6.7	6.6	7.2
February.....	29.426	29.925	28.851	10.1	18.8	24.0	6.4	15.2	32	-16	6	12	80	74	0.060	0.079	1.07	.37	6.5	5.3	6.3
March.....	29.327	29.630	28.991	34.3	44.6	51.5	31.3	41.4	88	16	28	33	76	65	1.64	1.99	1.19	1.08	5.4	5.8	5.2
April.....	29.217	29.542	28.595	41.5	48.6	55.4	37.1	46.2	75	25	35	39	78	70	2.11	2.46	4.90	1.60	7.0	7.5	7.0
May.....	29.336	29.892	28.858	47.0	55.2	61.6	41.6	51.6	77	31	38	42	72	61	2.37	2.72	1.87	.69	5.3	7.3	6.3
June.....	29.321	29.523	28.945	62.0	72.5	80.1	56.5	68.3	100	40	52	56	72	57	4.13	4.76	.94	.32	4.5	5.0	5.2
July.....	29.244	29.603	28.955	65.9	77.2	84.1	60.7	72.4	100	48	57	57	73	51	4.69	4.70	2.02	1.14	3.8	5.7	5.1
August.....	29.306	29.614	28.967	62.9	71.6	78.3	59.2	68.8	92	46	57	58	82	64	4.77	5.00	6.08	2.81	6.5	7.5	7.0
September.....	29.383	29.737	29.010	53.7	61.0	68.0	50.4	59.2	85	43	50	52	86	73	3.63	3.91	6.24	1.89	5.7	6.2	6.2
October.....	29.287	29.644	28.913	46.2	53.1	60.9	43.1	52.0	80	24	41	44	83	74	2.72	3.09	1.41	1.41	5.4	5.2	6.4
November.....	29.237	29.663	28.904	28.3	31.0	35.2	25.2	32.2	48	19	23	25	80	78	1.24	1.36	2.85	1.53	8.8	8.2	8.9
December.....	29.377	29.979	28.815	17.8	20.7	26.0	12.3	19.2	36	-1	13	16	79	79	0.78	0.88	.75	.41	8.1	6.5	7.3
Year.....	29.326	30.069	29.580	40.3	47.8	54.1	36.0	45.0	100	-18	34	37	78	69	2.45	2.71	29.14	2.81	6.1	6.4	6.5

HANNIBAL, MO.
[φ=39° 41' N.; λ=91° 20' W.]

January.....	29.545	30.070	28.784	24.8	35.9	42.3	21.3	28.6	54	-2	20	23	77	71	0.114	1.98	0.88	4.7	6.7	5.8
February.....	29.601	30.038	28.899	22.1	36.5	43.1	17.1	26.8	62	-4	17	20	77	70	1.04	1.65	0.65	4.0	5.0	4.6
March.....	29.490	29.773	29.256	44.5	66.8	74.0	41.0	53.9	88	21	36	39	73	60	2.20	2.60	1.15	1.14	3.6	2.8
April.....	29.326	29.719	29.021	46.5	64.3	72.3	42.3	53.3	92	24	40	43	79	69	2.60	2.60	2.60	2.60	5.4	5.6
May.....	29.443	29.908	29.161	54.2	67.8	76.0	49.0	58.4	82	39	46	48	76	68	3.29	3.29	6.58	1.74	5.8	5.4
June.....	29.418	29.656	29.182	65.1	80.7	90.1	70.4	72.4	92	46	59	61	81	70	5.22	5.22	4.39	2.93	4.1	4.0
July.....	29.361	29.683	29.250	70.5	86.0	96.2	76.1	76.1	95	56	65	65	83	73	6.21	6.21	9.32	4.84	5.2	4.5
August.....	29.424	29.742	29.293	66.6	83.4	93.2	73.3	73.3	94	47	63	63	88	78	5.88	5.88	1.64	1.64	5.2	5.2
September.....	29.495	29.836	29.201	59.8	75.1	82.2	66.6	66.6	86	42	56	56	89	80	4.71	4.71	5.37	1.55	5.7	5.2
October.....	29.462	29.876	29.168	49.2	69.9	78.4	46.4	58.2	86	22	44	44	83	74	3.16	3.16	1.14	1.14	6.2	2.8
November.....	29.478	29.812	29.027	32.4	48.3	57.7	38.0	38.0	71	18	25	26	75	73	1.43	1.43	.13	.07	4.7	5.2
December.....	29.575	30.192	29.190	23.3	38.7	45.2	19.5	29.1	62	6	18	19	79	79	1.00	1.00	.75	.64	4.1	4.4
Year.....	29.469	30.192	28.784	46.6	62.9	72.7	42.6	52.7	95	-4	41	41	81	71	3.16	3.16	34.70	4.84	4.6	4.6

HARRISBURG, PA.
[φ=40° 16' N.; λ=76° 52' W.]

January.....	29.717	30.365	28.907	26.5	30.9	35.5	23.4	29.4	47	9	20	23	77	71	0.114	0.126	3.91	1.20	7.2	6.7	6.9
February.....	29.730	30.262	29.190	25.8	30.5	36.0	22.4	29.2	53	2	19	20	73	64	1.09	1.19	3.54	.84	5.8	6.9	
March.....	29.692	30.031	29.177	39.0	50.1	57.2	37.4	47.3	83	24	31	35	72	57	1.78	2.17	2.25	.66	4.7	5.0	
April.....	29.522	29.891	29.238	49.4	58.1	65.8	45.6	55.7	87	34	38	40	67	57	2.44	2.72	4.20	1.84	5.5	6.1	
May.....	29.598	30.026	29.162	55.6	61.7	68.8	51.4	60.1	83	40	46	47	70	62	3.26	3.61	4.11	2.41	5.5	6.2	
June.....	29.547	29.829	29.151	63.5	69.9	76.7	58.8	67.8	93	45	56	58	77	69	4.59	5.05	4.91	1.47	5.3	6.4	
July.....	29.533	29.788	29.284	72.1	78.8	85.7	67.3	76.5	93	60	61	61	70	56	5.48	5.46	1.41	.66	4.4	5.0	
August.....	29.669	29.918	29.285	67.2	73.9	80.8	63.0	71.9	91	49	60	60	78	64	5.25	5.36	2.21	.77	5.7	6.4	
September.....	29.701	29.912	29.430	63.2	69.2	76.0	59.9	68.0	90	50	57	60	80	74	4.79	5.34	2.78	1.90	5.7	6.4	
October.....	29.657	30.039	29.161	51.3	58.4	67.3	48.3	57.5	85	31	44	45	76	62	3.09	3.21	1.30	.45	4.6	2.4	
November.....	29.492	29.945	29.206	36.4	39.4	44.5	33.9	39.2	61	25	28	28	69	68	1.49	1.51	.83	.48	7.3	6.9	
December.....	29.697	30.336	29.048	24.3	28.1	32.7	20.7	28.7	48	8	18	19	75	68	0.98	1.08	2.57	.97	6.4	5.1	
Year.....	29.630	30.365	28.907	47.9	54.1	60.6	44.3	52.5	93	-2	40	41	74	64	2.95	3.15	32.02	2.41	5.7	5.5	

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

GRAND RAPIDS, MICH.

[H=707 ft.; h₁=127 ft.; h₂=121 ft.; h₃=162 ft.]

Month.	Wind.										Number of days.																	
	By self-register.					Number of winds, 8 a. m. and 8 p. m.					Precipitation.	Snow.	Fog.	Maximum temp.	Minimum temperature 32° or below.	Elec- tricity.												
	Average hourly ve- locity.	Prevailing direc- tion.	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.	T. or more.	0.01 inch or more, melted.	Hail.	Fog.	32° or below.	30° or above.	Thunderstorms.	Auroras.
January	11.9	S.	40	SW.	1	10	4	6	4	14	8	9	7	0	2	3	26	14	9	21	11	0	0	19	0	30	0	0
February	12.1	S.	44	W.	2	2	5	3	8	7	14	9	12	4	0	14	8	18	13	18	11	0	0	16	0	28	0	0
March	12.3	SW.	44	W.	2	2	5	3	8	7	14	9	12	4	0	14	8	18	13	18	11	0	0	16	0	28	0	0
April	11.4	SE.	40	SW.	1	1	6	5	5	16	13	7	2	6	0	8	5	17	12	12	0	0	0	0	0	5	1	1
May	11.0	NW.	39	W.	0	0	9	6	4	7	5	9	9	13	0	8	11	12	12	9	0	0	0	0	0	0	1	0
June	7.5	W.	32	NW.	0	2	10	9	5	2	9	10	12	1	13	8	9	4	4	0	0	0	1	0	3	0	1	0
July	9.2	SW.	36	S.	0	0	2	6	9	5	8	19	3	7	1	14	12	5	7	6	0	0	0	0	0	0	5	0
August	9.0	SW.	46	SE.	2	2	2	6	9	5	15	7	7	9	1	11	4	16	6	4	0	0	1	0	1	0	5	0
September	8.8	S.	36	W.	0	0	6	6	7	7	14	7	7	4	2	13	3	14	9	0	0	0	1	0	0	0	0	0
October	10.2	SW.	37	SW.	0	0	4	3	5	8	18	12	5	6	1	12	12	7	10	18	3	1	1	0	0	0	0	0
November	11.3	NW.	33	NW.	0	1	2	4	7	7	14	8	3	13	22	0	0	21	14	10	18	9	0	0	0	0	25	0
December	11.4	S.	38	SW.	0	0	5	5	2	7	14	9	7	13	0	3	7	21	12	8	24	11	0	0	19	0	31	0
Year	10.5	S.	46	SE.	8	63	63	67	82	136	107	96	110	6	102	88	175	116	81	92	44	1	3	58	9	135	21	0

GREEN BAY, WIS.

[H=617 ft.; h₁=109 ft.; h₂=101 ft.; h₃=144 ft.]

January	10.2	SW.	40	N.	1	8	5	1	2	9	21	5	11	0	4	11	16	12	6	15	12	0	1	27	0	31	0	0
February	9.8	SW.	34	NE.	0	10	4	0	4	3	9	5	7	8	0	8	7	13	10	4	10	0	0	21	0	0	0	0
March	11.3	SW.	47	W.	3	12	13	4	15	5	8	1	2	0	4	9	17	14	12	6	6	0	0	0	0	0	7	1
April	12.3	SE.	56	N.	1	11	7	3	18	6	6	5	6	0	6	12	13	10	8	0	0	0	0	0	0	2	2	1
May	10.5	NE.	44	W.	0	4	11	6	11	5	18	1	4	0	13	10	7	6	4	0	0	0	0	0	0	6	0	2
June	7.4	SW.	31	W.	0	4	9	4	13	6	15	4	7	0	10	16	5	5	4	0	0	0	0	0	0	7	0	4
July	9.6	SW.	39	W.	0	5	7	4	13	11	12	4	6	0	3	11	17	12	8	0	0	0	1	0	1	0	0	6
August	8.5	SE.	38	W.	0	3	13	3	5	12	17	2	5	0	9	7	14	10	8	0	0	0	0	0	0	0	0	4
September	9.7	SW.	36	N.	0	5	6	1	8	5	22	9	5	1	8	10	13	5	5	2	0	0	0	0	0	0	3	0
October	10.4	SW.	40	SW.	1	6	0	3	1	7	8	14	21	0	0	5	25	11	8	4	6	0	1	9	0	29	0	
November	9.5	NW.	31	N.	0	6	0	3	1	7	8	14	21	0	0	5	25	11	8	4	6	0	1	9	0	29	0	
December	11.2	NW.	36	N.	0	10	5	4	3	9	8	14	9	0	5	10	16	9	4	14	9	0	0	29	0	31	0	
Year	10.0	SW.	56	N.	9	83	84	37	101	88	177	71	88	1	82	121	162	108	73	54	46	0	5	87	14	150	21	2

HANNIBAL, MO.

[H=534 ft.; h₁=75 ft.; h₂=68 ft.; h₃=106 ft.]

January	9.8	NW.	44	W.	2	4	1	2	3	1	9	5	5	1	11	6	14	9	4	8	5	0	1	11	0	0	0	0
February	10.3	N.	38	SW.	0	5	1	2	2	5	8	1	4	0	12	9	7	3	3	10	2	0	0	9	0	0	1	0
March	9.9	SW.	42	SW.	1	2	1	4	0	3	17	1	1	2	21	8	2	2	3	3	0	0	0	0	0	0	4	0
April	10.2	SW.	40	SW.	1	4	3	3	0	0	11	4	5	0	8	10	12	14	12	5	5	0	0	0	0	1	10	0
May	9.4	NW.	38	SE.	0	5	4	3	2	1	6	4	6	0	10	10	11	16	13	0	0	0	0	0	0	0	0	4
June	6.2	SW.	40	SE.	1	5	2	2	1	0	8	3	2	0	17	7	6	9	7	0	0	0	0	0	0	0	0	0
July	7.0	SW.	30	NW.	0	7	2	2	1	4	10	2	3	0	12	12	7	10	7	10	0	0	1	0	0	7	0	
August	8.4	SW.	28	NW.	0	2	2	5	1	3	13	3	2	0	9	12	10	8	7	0	0	0	2	0	3	0	6	
September	7.0	SW.	26	SW.	0	4	4	3	2	2	11	2	2	0	15	3	12	10	0	0	0	0	4	0	0	0	5	
October	8.1	SW.	40	SW.	1	2	0	3	1	2	14	4	5	0	22	3	6	5	4	1	0	0	2	0	0	2	2	
November	8.7	NW.	29	NW.	0	1	1	3	2	1	12	2	8	0	10	11	9	3	2	3	0	0	1	2	0	23	1	
December	9.1	NW.	30	NE.	0	1	3	1	1	2	6	10	7	0	15	8	8	4	2	6	1	0	0	6	0	29	0	
Year	8.5	SW.	44	W.	6	42	28	36	16	24	125	41	50	3	162	99	104	96	73	33	13	1	11	28	15	122	45	0

HARRISBURG, PA.

[H=374 ft.; h₁=94 ft.; h₂=86 ft.; h₃=104 ft.]

January	7.2	E.	34	SW.	0	6	7	12	4	2	4	12	15	0	8	4	19	13	12	11	7	0	1	10	0	30	0	0
February	7.8	W.	34	NW.	0	4	7	6	5	2	4	15	13	0	9	8	11	11	9	7	4	0	1	7	0	24	0	
March	6.5	E.	40	NW.	1	9	8	14	3	2	4	11	11	0	10	13	8	5	3	3	1	0	1	0	0	9	1	
April	7.6	NW.	32	SE.	0	4	6	11	6	6	6	15	0	8	13	9	13	9	1	0	0	0	0	0	0	0	4	
May	7.0	NW.	33	SW.	0	10	0	5	9	6	7	11	14	0	7	12	11	16	12	0	0	0	0	0	0	0	5	
June	5.7	W.	26	W.	0	4	8	9	3	7	10	9	10	0	10	8	12	11	11	0	0	0	0	0	0	0	0	
July	5.3	W.	26	NW.	0	3	6	7	2	7	10	12	14	1	15	9	6	6	6	0	0	0	0	0	0	4	7	
August	5.7	E.	29	W.	0	2	10	12	11	7	9	5	7	6	0	7	12	13	9	0	0	0	0	0	0	0	2	
September	6.9	N.	37	NW.	0	0	19	7	10	7	1	9	5	3	8	11	8	11	13	7	0	0	0	0	0	0	0	
October	8.7	NW.	30	SW.	0	0	6	8	5	4	6	15	11	1	14	12	5	7	6	1	0	0	0	0	0	2	1	
November	8.7	W.	35	SW.	0	3	2	7	3	1	2	20	22	0	2	13	15	10	4	4	11	5	0	0	0	0	0	
December	7.3	NW.	35	NW.	0	3	4	10	2	3	8	12	20	0	6	11	14	12	7	16	7	0	0	15	0	80	0	
Year	6.7	NW.	40	NW.	1	64	73																					

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

HARTFORD, CONN.

[φ=41° 46' N.; λ=72° 40' W.]

Month.	Pressure.			Temperature.						Moisture.						Cloudiness.						
	Monthly mean.	Extremes.		Mean.			Extremes.			Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.						
		Maximum.	Minimum.	8 a. m.	8 p. m.	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.
January.....	29.921	30.650	29.113	25.5	30.3	36.5	20.8	28.6	55	—	0	18	23	74	72	0.113						0.129	6.08	1.95	6.8	5.4	6.5
February.....	29.920	30.602	29.400	24.3	28.9	35.4	19.1	27.2	57	—	6	17	20	72	68	.108	.125	4.43	1.11	5.9	5.5	5.7
March.....	29.901	30.323	29.292	36.7	42.5	51.8	32.8	42.3	76	18	28	31	31	72	64	.161	.179	.95	.70	5.9	3.5	4.8
April.....	29.775	30.182	29.417	47.9	53.8	62.7	41.8	52.2	79	32	38	40	41	61	61	.244	.263	3.15	1.80	6.2	5.2	6.0
May.....	29.794	30.234	28.279	54.2	58.8	67.6	49.1	58.4	84	38	44	45	45	72	63	.307	.315	2.49	.81	7.2	5.8	6.4
June.....	29.745	30.061	28.293	63.0	67.4	74.8	57.0	65.9	90	42	54	56	56	75	69	.440	.464	4.16	.96	6.7	6.7	6.5
July.....	29.722	30.016	29.487	70.9	75.1	84.7	63.6	74.2	93	55	61	60	73	62	.552	.535	2.47	1.35	4.5	6.1	5.2	
August.....	29.900	30.197	29.494	65.1	69.2	78.6	59.1	68.8	84	48	59	60	81	72	.506	.520	2.98	1.55	6.6	5.5	6.7	
September.....	29.920	30.151	29.649	59.0	64.3	73.1	53.9	63.5	81	38	54	55	85	74	.434	.453	3.41	1.61	5.9	4.1	6.1	
October.....	29.826	30.272	29.292	50.2	55.1	64.2	45.5	54.6	80	26	42	42	74	64	.292	.292	.77	1.19	5.8	3.1	5.9	
November.....	29.618	30.210	29.264	36.0	39.6	45.3	33.1	39.2	60	22	30	32	78	74	.171	.185	4.36	1.84	7.4	5.9	7.2	
December.....	29.850	30.378	29.227	22.0	26.5	32.8	17.5	25.2	50	3	16	17	75	65	.099	.099	1.93	1.03	5.5	5.8	6.3	
Year.....	29.825	30.650	29.113	46.2	51.0	59.0	41.1	50.0	93	—	6	38	40	75	67	.286	.297	37.78	1.95	6.2	5.2	6.1

HATTERAS, N. C.

[φ=35° 15' N.; λ=75° 40' W.]

January.....	30.140	30.711	29.428	43.8	46.1	54.4	38.7	46.6	66	29	39	42	84	87	0.258	0.296	2.35	1.19	5.2	3.7	5.5
February.....	30.157	30.590	29.683	44.1	47.2	53.9	39.6	46.8	66	18	39	43	84	87	.261	.302	2.00	1.01	5.0	4.5	5.2
March.....	30.085	30.397	29.600	54.9	55.0	63.7	50.6	57.2	81	34	52	52	88	89	.395	.396	2.16	.93	2.6	2.6	3.7
April.....	29.944	30.178	29.709	61.4	61.2	68.4	56.2	62.3	74	48	54	57	78	86	.435	.472	.67	.31	2.9	3.2	3.7
May.....	30.630	30.379	29.596	67.2	64.9	73.0	61.0	67.0	82	47	59	59	78	85	.528	.518	3.02	1.44	3.4	4.2	3.7
June.....	29.973	30.178	29.618	74.1	72.3	79.4	63.2	74.3	88	61	68	67	82	84	.699	.678	2.95	.70	3.6	5.2	4.3
July.....	29.980	30.233	29.917	78.4	75.8	82.9	73.4	78.2	86	66	74	72	88	89	.853	.798	1.44	.53	4.7	4.4	4.3
August.....	30.026	30.245	29.835	77.5	76.1	82.7	72.3	77.5	88	67	72	73	84	89	.790	.805	13.14	5.21	5.8	6.0	5.4
September.....	30.048	30.138	29.914	75.5	73.8	80.3	71.2	75.8	87	64	70	70	84	88	.745	.739	2.60	1.86	4.5	3.8	3.8
October.....	30.027	30.448	29.417	68.2	67.0	74.8	63.1	69.0	84	41	61	62	79	84	.577	.587	1.45	.79	2.7	3.3	3.4
November.....	29.912	30.309	29.403	48.7	50.4	57.7	44.9	51.3	71	38	43	46	81	84	.287	.315	.38	1.19	4.2	2.8	3.9
December.....	30.113	30.598	29.518	40.5	41.6	49.8	35.5	42.6	65	28	36	38	84	86	.226	.234	2.39	1.07	3.6	3.1	4.1
Year.....	30.036	30.711	29.417	61.2	61.0	68.4	56.3	62.4	88	18	56	57	83	86	.505	.511	35.15	5.21	4.0	4.0	4.2

HAVRE, MONT.

[φ=48° 34' N.; λ=109° 40' W.]

January.....	27.294	27.765	26.730	18.7	25.8	31.7	13.1	22.4	52	—	8	15	20	86	82	0.097	0.118	0.44	0.12	4.8	6.3	6.2
February.....	27.417	27.877	26.432	7.1	15.2	22.6	.5	11.6	50	—	33	4	10	88	81	.067	.078	.79	.25	5.5	5.0	5.6
March.....	27.327	27.703	26.840	34.3	55.0	58.4	31.0	44.7	77	13	29	35	81	49	.159	.215	.33	.20	4.1	4.5	4.0	
April.....	27.301	27.698	26.765	40.6	65.2	68.9	37.6	53.2	94	23	34	38	80	40	.202	.237	.48	.21	4.1	4.8	4.7	
May.....	27.371	27.607	26.964	44.4	64.8	67.9	41.5	54.7	86	20	38	43	80	48	.235	.282	1.40	.70	4.0	4.8	4.5	
June.....	27.268	27.592	26.889	54.0	76.8	80.3	49.8	65.0	101	29	45	46	72	56	.304	.322	1.23	.76	2.9	4.0	3.9	
July.....	27.302	27.605	26.991	58.0	83.4	85.8	55.3	70.6	102	44	50	50	76	34	.300	.374	.84	.40	2.8	3.2	3.5	
August.....	27.368	27.722	27.075	50.7	74.4	77.6	48.8	63.2	93	27	42	50	76	46	.278	.378	.37	.23	4.1	3.2	3.0	
September.....	27.414	27.637	27.015	42.4	64.6	68.4	41.1	54.8	87	28	38	44	86	51	.236	.302	.48	.22	4.5	4.9	5.6	
October.....	27.329	27.930	26.693	40.5	55.8	62.5	35.8	49.2	89	14	34	40	78	58	.200	.250	.08	.08	4.3	5.5	5.8	
November.....	27.342	27.959	26.911	26.0	31.1	37.8	20.7	29.2	61	—	3	22	25	86	.124	.139	.69	.20	6.1	6.4	8.0	
December.....	27.366	27.708	26.757	18.0	19.8	28.6	11.3	20.0	45	—	13	14	16	85	.088	.090	1.01	.34	3.7	5.5	5.4	
Year.....	27.342	27.952	26.432	36.2	52.7	57.5	32.2	44.9	102	—	33	30	35	81	.196	.233	8.14	.76	4.2	4.8	5.1	

HELENA, MONT.

[φ=46° 34' N.; λ=112° 4' W.]

January.....	25.773	26.156	25.256	16.9	22.6	27.7	11.2	19.4	53	—	11	14	77	70	0.077	0.087	0.80	0.49	5.2	5.9	5.6
February.....	25.788	26.187	25.116	11.5	19.1	25.8	7.1	16.4	48	—	8	11	84	69	.009	.077	1.18	.68	5.7	6.7	6.1
March.....	25.802	26.090	25.363	36.1	51.5	56.5	33.3	44.9	71	20	27	27	69	39	.146	.149	.04	.02	4.5	4.1	4.2
April.....	25.790	26.132	25.181	40.8	59.4	65.7	38.4	52.0	86	27	29	29	62	35	.158	.162	.34	.22	4.4	6.4	5.0
May.....	25.826	26.129	25.496	43.7	68.4	67.5	42.4	55.0	82	29	35	33	73	34	.209	.188	1.43	.47	3.7	5.4	4.3
June.....	25.747	26.062	25.319	50.2	70.2	75.9	48.1	62.0	96	31	40	39	68	36	.247	.248	1.90	1.10	3.6	6.3	4.7
July.....	25.803	25.995	25.516	66.4	77.6	82.6	54.5	68.6	98	41	42	61	32	.278	.271	.61	.22	3.3	5.8	4.3	
August.....	25.842	26.182	25.517	60.3	71.7	76.5	48.2	62.1	92	29	35	38	59	32	.208	.227	1.05	.91	2.8	3.2	3.3
September.....	25.871	26.178	25.523	43.9	58.0	62.8	41.0	52.2	80	20	30	42	83	58	.240	.277	1.77	.39	6.7	6.3	6.1
October.....	25.838	26.333	25.259	40.8	52.3	59.5	37.4	48.4	84	17	31	34	70	51	.175	.196	.84	.31	3.9	5.0	4.4
November.....	25.764	26.143	25.398	31.0	35.9	41.2	26.8	34.0	61	2	24	26	77	68	.134	.143	1.64	.86	5.9	7.1	6.8
December.....	25.833	26.163	25.356	22.7	28.4	31.8	16.6	24.2	46	—	10	17	19	79	.100	.100	.17	.15	4.0	4.3	4.8
Year.....	25.806	26.333	25.116	37.0	50.6	56.1	33.8	45.0	96	—	28	30	72	50	.169	.177	11.78	1.10	4.5	5.5	5.0

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

HONOLULU, HAWAII
[φ=21° 19' N.; λ=157° 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.						
January.....	30.044	30.133	29.861	70.0	69.4	74.5	64.6	69.6	80	59	59	60	68	72	0.500	0.520	4.79	1.41	6.8	4.3	6.1
February.....	30.014	30.150	29.844	70.1	69.1	75.8	64.2	70.0	80	58	60	60	70	73	.511	.523	1.22	.62	5.0	3.8	4.6
March.....	30.062	30.158	29.956	71.7	70.9	77.2	66.2	71.7	81	63	61	61	69	71	.531	.537	1.52	.49	5.2	3.6	4.6
April.....	30.048	30.120	29.976	72.2	71.1	76.7	67.5	72.1	80	62	60	61	64	72	.528	.542	1.48	.70	6.8	5.6	6.4
May.....	30.054	30.137	29.937	73.9	72.0	78.1	68.0	73.0	83	65	61	62	65	72	.543	.563	.86	.24	4.8	4.6	4.8
June.....	30.030	30.129	29.947	75.3	73.8	79.9	70.0	75.0	83	66	63	63	66	70	.576	.580	.76	.30	5.3	4.7	4.9
July.....	29.994	30.073	29.893	76.8	74.9	81.6	71.2	76.4	84	69	64	64	64	70	.588	.608	.95	.30	5.3	4.4	4.7
August.....	29.967	30.090	29.911	77.1	75.5	81.7	71.9	76.8	85	66	64	66	66	71	.606	.627	2.04	1.10	5.7	3.5	4.6
September.....	29.942	30.064	29.869	78.2	75.5	82.2	71.3	77.0	85	69	68	68	70	79	.675	.694	6.40	2.70	5.8	4.0	5.6
October.....	29.996	30.087	29.895	76.7	74.7	80.5	70.2	74.4	84	65	64	65	66	72	.601	.619	.63	.18	4.7	4.7	4.8
November.....	29.978	30.083	29.843	74.9	73.5	79.7	69.6	74.6	84	66	65	65	71	75	.613	.616	3.65	1.56	5.9	5.1	5.2
December.....	29.963	30.063	29.794	72.0	70.4	76.5	66.0	71.2	80	62	62	62	70	75	.549	.558	2.64	1.31	5.5	3.9	5.1
Year.....	30.009	30.158	29.794	74.1	72.6	78.7	68.4	73.6	85	58	63	67	73	73	.568	.582	26.34	2.70	5.6	4.4	5.1

HOUGHTON, MICH.
[φ=47° 7' N.; λ=88° 34' W.]

January.....	29.294	30.047	28.735	15.7	.....	24.9	10.0	17.4	36	- 7	12	.....	83	.....	0.076	.....	1.82	0.42	8.6	.....	8.4
February.....	29.359	29.781	29.002	9.3	.....	20.2	4.2	12.2	38	-16	5	.....	80	.....	.059	.....	1.54	.45	8.9	.....	8.3
March.....	29.224	29.683	28.837	31.3	.....	47.1	25.6	36.4	78	7	26	.....	78	.....	.148	.....	.49	.27	5.1	.....	4.5
April.....	29.215	29.521	28.846	37.8	.....	52.0	33.5	42.8	74	24	33	.....	84	.....	.193	.....	2.04	.84	6.1	.....	4.9
May.....	29.293	29.885	28.871	43.1	.....	56.3	37.8	47.0	73	25	37	.....	78	.....	.221	.....	3.69	2.16	6.4	.....	5.4
June.....	29.284	29.481	28.992	60.0	.....	76.2	53.8	65.0	95	34	51	.....	74	.....	.396	.....	.39	.26	4.6	.....	4.0
July.....	29.187	29.583	28.815	63.6	.....	76.7	57.7	67.1	92	46	56	.....	78	.....	.461	.....	1.97	1.46	4.1	.....	5.0
August.....	29.241	29.597	28.894	59.5	.....	71.9	54.9	63.4	87	45	55	.....	86	.....	.450	.....	4.51	1.62	5.0	.....	5.2
September.....	29.325	29.672	28.956	52.1	.....	64.8	47.7	56.2	86	40	48	.....	87	.....	.343	.....	2.89	1.33	5.5	.....	5.2
October.....	29.210	29.632	28.893	45.0	.....	56.6	39.8	48.2	86	26	41	.....	85	.....	.263	.....	2.34	.57	5.9	.....	5.8
November.....	29.231	29.634	28.916	28.8	.....	33.6	27.2	30.4	43	19	25	.....	83	.....	.131	.....	1.63	.63	9.5	.....	8.9
December.....	29.285	29.806	28.773	18.8	.....	25.5	14.1	19.8	38	- 9	14	.....	81	.....	.083	.....	1.92	.32	9.1	.....	8.6
Year.....	29.262	30.047	28.735	38.8	.....	50.5	33.8	42.2	95	-16	34	.....	81	.....	.235	.....	25.23	2.16	6.4	.....	6.0

HOUSTON, TEX.
[φ=29° 47' N.; λ=95° 24' W.]

January.....	30.049	30.450	29.758	49.1	.....	65.6	45.7	55.6	78	24	43	.....	81	.....	0.313	.....	1.59	0.84	4.7	.....	3.5
February.....	30.013	30.412	29.718	45.9	.....	61.5	40.8	51.2	75	21	42	.....	86	.....	.294	.....	2.31	1.41	5.5	.....	6.0
March.....	29.974	30.112	29.702	37.9	.....	78.0	56.3	67.2	87	46	55	.....	91	.....	.447	.....	.84	.68	2.7	.....	3.7
April.....	29.874	30.077	29.611	60.8	.....	78.1	58.6	68.4	87	41	54	.....	81	.....	.453	.....	.80	.64	4.2	.....	4.2
May.....	29.843	30.064	29.624	67.8	.....	83.5	64.8	74.2	90	59	64	.....	88	.....	.606	.....	7.21	1.66	5.4	.....	5.5
June.....	29.804	29.971	29.700	73.3	.....	88.4	69.9	79.2	94	62	70	.....	88	.....	.737	.....	2.10	.70	3.7	.....	3.6
July.....	29.829	29.963	29.696	76.7	.....	90.7	73.5	82.1	95	66	74	.....	92	.....	.841	.....	4.49	2.21	3.5	.....	3.7
August.....	29.809	29.930	29.743	77.1	.....	94.2	75.0	84.6	98	72	74	.....	91	.....	.844	.....	2.45	1.75	3.2	.....	3.3
September.....	29.866	30.011	29.732	72.4	.....	90.0	70.9	80.4	96	63	70	.....	91	.....	.731	.....	1.04	.32	2.8	.....	3.4
October.....	29.884	30.404	29.642	62.0	.....	80.3	60.7	70.5	91	39	57	.....	85	.....	.515	.....	1.98	.73	3.2	.....	3.7
November.....	29.906	30.122	29.708	57.7	.....	74.6	55.0	64.8	87	40	55	.....	90	.....	.457	.....	.88	.60	4.1	.....	4.8
December.....	30.006	30.332	29.634	51.8	.....	65.3	48.1	56.7	81	33	48	.....	86	.....	.365	.....	4.90	2.21	5.9	.....	6.1
Year.....	29.905	30.450	29.611	62.7	.....	79.2	59.9	69.6	96	21	59	.....	88	.....	.550	.....	30.59	2.21	4.1	.....	4.3

HURON, S. DAK.
[φ=44° 21' N.; λ=98° 14' W.]

January.....	28.694	29.230	27.993	8.6	13.4	20.6	1.8	11.2	38	-29	7	10	94	86	0.064	0.073	1.49	1.10	5.6	4.2	5.9
February.....	28.751	29.165	28.165	2.0	12.3	18.7	-3.3	7.7	40	-20	1	9	94	83	.050	.068	.23	.15	5.7	5.0	3.9
March.....	28.695	29.087	28.059	35.5	62.4	58.5	33.1	45.8	85	20	31	36	83	56	.174	.219	.10	.16	4.6	4.1	3.7
April.....	28.536	28.954	27.921	39.0	58.2	64.6	35.0	49.8	94	20	33	35	79	46	.194	.218	.89	.42	5.1	4.6	4.3
May.....	28.637	29.082	28.161	45.1	60.8	65.5	40.9	53.2	83	30	38	38	76	46	.232	.235	1.05	.41	4.3	4.8	4.3
June.....	28.593	28.849	28.334	60.1	76.6	80.2	55.4	67.8	97	37	53	52	75	45	.421	.422	2.54	.12	5.5	3.3	3.9
July.....	28.556	28.792	28.190	62.9	82.9	85.7	58.4	72.0	100	46	56	56	79	43	.457	.467	.15	.46	3.7	3.6	3.6
August.....	28.605	28.981	28.213	57.1	74.7	81.6	54.5	68.0	95	38	53	55	88	53	.417	.451	1.43	.40	5.0	5.0	4.6
September.....	28.652	29.137	28.219	50.0	65.8	73.4	47.0	60.2	93	31	46	47	85	54	.320	.339	1.00	.88	6.9	4.5	5.8
October.....	28.566	29.037	28.012	41.1	56.6	69.3	38.7	54.0	94	21	34	34	76	43	.209	.209	.52	.41	4.4	4.4	4.4
November.....	28.674	29.191	28.173	24.1	32.1	39.5	20.0	29.8	57	5	20	22	83	65	.107	.116	.17	.14	5.8	5.4	6.1
December.....	28.702	29.171	28.244	13.3	20.6	28.3	8.1	18.2	48	-11	11	15	92	75	.075	.084	.29	.25	6.2	4.2	6.2
Year.....	28.635	29.230	27.921	36.6	50.7	57.2	32.5	44.8	100	-29	22	34	84	88	.227	.242	10.19	1.32	5.2	4.4	4.7

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

HARTFORD, CONN.

[H=159 ft.; h₁=122 ft.; h₂=116 ft. h₃=140 ft.]

Month.	Wind.										Number of days.																	
	By self-register.				Number of winds, 8 a. m. and 8 p. m.						Partly cloudy.	Cloudy.	Precipitation.		Snow.		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.	0.01 inch and over.	0.04 inch and over.	T. or more.	0.01 inch or more, melted.	Hail.	Fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	8.1	N.	48	NW.	2	14	2	0	3	15	9	4	15	0	9	5	17	15	14	14	12	0	0	9	0	28	0	0
February	8.7	NW.	35	W.	0	12	0	2	2	8	12	3	17	0	8	10	10	11	9	6	2	0	0	8	0	25	0	0
March	8.4	S.	29	S.	0	14	3	1	7	18	11	4	11	0	12	14	5	9	6	2	2	0	1	0	14	3	3	1
April	8.4	S.	30	NW.	0	9	3	6	0	7	8	3	11	0	9	8	13	10	6	2	2	0	2	0	1	2	2	0
May	7.6	S.	27	W.	0	13	8	0	0	18	3	3	18	0	9	8	13	10	6	2	2	0	2	0	1	1	2	0
June	7.3	S.	25	SW.	0	11	7	1	2	10	15	3	12	1	4	10	15	15	11	0	0	0	0	0	0	0	7	7
July	7.0	S.	32	NW.	0	12	3	1	1	27	7	7	10	0	9	9	13	9	6	4	0	0	1	0	0	0	5	5
August	7.0	S.	25	SW.	0	10	5	2	3	25	7	2	8	0	4	13	14	10	7	7	0	0	1	0	1	0	0	1
September	6.0	S.	24	SW.	0	17	6	2	3	18	7	0	7	0	7	12	11	12	5	0	0	0	3	0	0	0	0	0
October	7.9	NW.	36	SW.	0	15	2	2	0	12	12	4	15	0	8	10	13	7	6	0	0	1	0	0	3	4	4	0
November	7.4	NW.	31	NW.	0	15	1	1	1	15	4	15	1	2	12	16	11	9	8	3	0	0	0	0	11	0	0	0
December	8.0	NW.	34	NW.	0	9	4	0	1	5	20	4	19	0	9	6	16	9	5	11	5	0	16	0	20	0	0	0
Year..	7.6	S.	48	NW.	2	151	46	18	31	172	123	39	148	2	87	124	154	180	95	47	29	2	8	33	6	112	33	2

HATTERAS, N. C.

[H=11 ft.; h₁=12 ft.; h₂=34 ft.; h₃=47 ft.]

January	16.3	SW.	58	S.	4	16	7	0	4	5	20	2	8	0	13	5	13	8	7	0	0	1	0	0	6	6	3	0
February	19.9	SW.	60	NE.	4	5	3	9	3	4	4	18	4	11	0	9	10	9	14	6	2	1	0	0	0	6	0	0
March	13.8	SW.	44	NW.	2	10	16	4	1	5	19	4	3	0	21	2	8	7	7	1	1	1	0	4	0	0	1	0
April	15.8	SW.	37	S.	0	6	13	2	7	10	25	4	1	0	19	8	3	6	5	0	0	0	0	0	0	0	4	4
May	15.0	SW.	39	N.	0	0	11	2	7	10	19	6	4	2	20	5	6	9	8	0	0	2	0	0	0	0	8	8
June	14.5	SW.	43	NW.	1	2	7	2	6	4	1	1	2	0	14	13	4	10	10	0	0	0	0	0	0	0	4	0
July	16.4	SW.	39	SW.	0	0	3	6	1	1	2	4	4	0	13	4	10	10	0	0	0	0	0	0	0	0	7	7
August	10.5	SW.	36	SE.	0	1	7	9	8	10	20	4	3	0	10	11	10	24	17	0	0	0	0	0	0	0	0	0
September	13.8	NE.	44	NW.	1	3	28	7	2	1	14	3	2	0	14	14	2	5	5	0	0	0	0	0	0	0	3	3
October	14.8	NW.	48	N.	2	13	6	6	6	7	5	10	3	12	0	20	8	3	8	8	0	0	0	0	0	0	3	0
November	15.7	NW.	42	NW.	2	13	6	2	0	1	7	6	25	0	18	6	6	4	3	0	0	0	0	0	0	0	0	0
December	15.8	N.	46	N.	1	12	18	0	0	3	10	6	13	0	19	4	8	6	6	0	0	2	0	0	9	0	0	0
Year..	15.2	SW.	60	NE.	18	85	134	43	38	66	227	50	87	0	192	95	78	113	94	3	2	0	13	0	0	21	42	0

HAVRE, MONT.

[H=2,505 ft.; h₁=11 ft.; h₂=4 ft.; h₃=44 ft.]

January	11.2	SW.	40	W.	1	1	3	10	0	1	30	9	8	0	9	11	11	5	4	7	5	0	1	14	0	28	0	1
February	9.1	SW.	37	SW.	0	3	6	12	0	0	12	10	11	2	9	10	9	8	6	11	8	0	0	15	0	27	0	0
March	9.7	SW.	60	W.	1	3	6	5	1	2	17	17	10	1	17	11	3	3	2	2	2	0	0	0	0	20	1	3
April	8.7	NW.	36	SW.	0	5	2	8	0	2	16	11	15	1	10	16	4	7	7	3	0	0	0	0	1	10	3	3
May	9.7	E.	39	NW.	0	6	2	17	4	2	13	7	7	4	17	9	5	11	6	0	0	0	0	0	0	4	0	1
June	9.0	E.	48	SW.	1	3	2	11	6	3	9	13	11	2	15	11	3	10	5	5	0	0	4	0	0	8	1	11
July	7.9	NW.	40	N.	2	9	4	11	3	3	6	4	10	0	20	9	3	5	5	0	0	0	0	0	0	11	0	5
August	7.0	NW.	30	NW.	0	5	6	13	2	1	4	7	23	0	18	10	3	3	2	2	0	0	0	0	0	0	3	2
September	7.1	SW.	33	SW.	0	15	7	3	3	1	7	11	5	3	10	9	11	6	6	2	0	0	0	0	0	5	1	3
October	9.9	SW.	42	SW.	1	3	3	5	2	1	20	18	10	0	11	12	3	2	2	0	0	0	0	0	0	0	8	2
November	7.6	E.	38	SW.	0	1	2	19	2	2	14	11	7	2	11	8	21	9	5	10	7	0	4	12	0	29	0	0
December	9.1	SW.	42	SW.	1	4	2	9	0	0	18	18	9	2	12	11	8	8	6	10	8	0	1	15	0	30	0	0
Year..	8.8	SW.	60	W.	7	58	45	128	23	18	166	142	132	18	150	127	88	77	49	40	30	4	6	56	25	161	25	7

HELENA, MONT.

[H=4,110 ft.; h₁=8 ft.; h₂=3 ft.; h₃=56 ft.]

January	6.5	W.	35	W.	0	3	3	0	0	2	22	22	8	2	8	11	12	7	4	12	6	0	0	16	0	26	0	0
February	6.2	W.	36	SW.	0	3	2	1	2	1	13	15	19	0	7	8	13	11	4	15	9	0	0	15	0	27	0	0
March	8.2	W.	39	SW.	0	1	1	1	1	4	23	25	6	0	14	12	5	3	0	4	1	0	0	0	0	15	0	1
April	8.3	W.	36	W.	0	2	1	3	2	1	22	23	6	0	10	14	6	8	2	2	2	1	0	0	0	6	2	0
May	7.7	W.	31	SW.	0	6	0	4	0	1	21	18	11	1	18	5	8	7	7	1	1	1	0	0	0	5	5	
June	6.9	SW.	31	W.	0	5	1	3	2	4	22	14	9	0	11	8	11	8	0	0	2	0	0	2	1	12	0	
July	6.8	SW.	33	W.	0	2	1	2	3	2	25	18	9	0	12	14	5	6	4	0	0	2	0	0	6	0	8	
August	6.3	SW.	36	SW.	0	9	5	4	0	1	27	10	8	0	17	11	6	3	3	1	1	0	0	0	1	1	5	
September	6.3	SW.	42	W.	1	7	1	5	1	1	19	17	8	0	16	9	15	11	8	9	3	3	1	0	0	7	5	
October	6.9	W.	36	W.	0	1	1	1	1	6	26	21	5	0	11	12	8	8	5	2	1	0	0	0	0	3	0	
November	6.7	W.	37	W.	0	3	0	0	0	0	32	19	1	5	5	9	16	10	5	14	6	1	1	0	0	18	0	
December	6.0	W.	42	W.	1	3	2	0	1	3	5	34	7	7	13	11	7	3	2	9	3	0	0	16	0	31	0	

MONTHLY AND ANNUAL SUMMARIES, 1910.

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ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

INDEPENDENCE, CAL.

[$\phi=36^{\circ} 48' N.$; $\lambda=118^{\circ} 12' W.$]

Month.	Pressure.			Temperature.							Moisture.										
	Monthly mean.	Extremes.		Mean.			Extremes.		Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.						
		Maximum.	Minimum.	8 a. m.	8 p. m.	Monthly.	Maximum.	Minimum.		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.
January.....	26.049	26.334	25.447	29.2	40.0	47.1	24.1	35.6	60	15	26	27	89	62			0.138	0.146		0.25	0.33	1.7	4.3	3.3
February.....	26.039	26.298	25.660	32.5	51.3	55.8	27.0	41.4	74	16	26	21	78	32	0.136	0.112	T	T	2.0	3.8	2.1
March.....	25.994	26.324	25.695	44.0	64.8	67.9	38.6	53.2	80	26	28	24	54	24	0.155	0.133	.10	.08	2.0	4.2	3.6
April.....	25.985	26.233	25.713	48.1	73.0	76.2	43.5	59.8	88	35	29	27	49	21	0.159	0.148	.31	.31	2.5	3.3	3.5
May.....	25.945	26.127	25.728	55.1	80.8	83.5	51.4	67.4	102	33	34	31	47	17	0.202	0.174	0	0	1.9	3.4	3.2
June.....	25.873	26.057	25.653	59.5	87.6	90.2	56.4	73.3	98	47	34	30	39	14	0.197	0.174	T	T	.6	1.8	1.2
July.....	25.945	26.100	25.749	65.6	90.1	93.9	61.9	77.9	102	48	42	38	44	20	0.283	0.260	.27	.27	2.3	5.4	2.6
August.....	25.966	26.060	25.786	64.1	91.5	94.2	60.1	77.2	99	52	38	35	40	14	0.239	0.215	0	0	.9	3.3	3.3
September.....	25.949	26.156	25.750	58.8	82.2	85.6	53.8	69.7	96	46	36	32	46	19	0.224	0.197	.72	.72	1.1	2.7	2.2
October.....	26.040	26.204	25.635	49.5	66.8	73.1	44.5	58.8	88	34	33	32	56	31	0.190	0.184	.38	.33	1.8	3.5	2.8
November.....	26.010	26.239	25.650	38.9	54.0	62.5	33.4	48.0	76	22	30	30	71	40	0.168	0.166	.02	.02	2.1	5.4	3.0
December.....	26.078	26.273	25.812	34.3	45.7	54.5	28.8	41.6	62	18	28	29	80	53	0.154	0.161	.32	.19	3.2	5.3	4.6
Year.....	25.990	26.334	25.447	48.3	69.0	73.7	43.6	58.7	102	15	32	30	58	29	.187	.172	2.37	.72	1.8	3.9	3.0

INDIANAPOLIS, IND.

[$\phi=39^{\circ} 46' N.$; $\lambda=86^{\circ} 10' W.$]

January.....	29.212	29.873	28.613	26.5	29.5	35.3	22.5	28.9	56	0	23	22	86	73	0.128	0.126	2.62	0.89	8.2	6.3	7.5
February.....	29.262	29.653	28.794	21.9	30.4	35.0	18.7	26.8	55	-2	17	21	81	68	0.102	0.123	4.00	1.38	6.1	5.2	6.0
March.....	29.206	29.423	28.950	43.3	56.6	62.5	41.3	51.9	84	19	34	35	70	46	0.203	0.216	0.97	.08	5.6	3.9	4.8
April.....	29.030	29.417	28.652	47.1	56.1	63.0	42.6	52.8	83	27	39	40	75	60	0.250	0.270	2.92	0.68	5.9	5.5	5.9
May.....	29.153	29.560	28.733	53.3	61.0	66.4	48.6	57.5	78	36	44	45	73	58	0.309	0.321	3.86	1.33	5.5	6.2	5.8
June.....	29.120	29.350	28.804	64.2	74.6	79.9	59.0	69.4	94	40	54	54	72	51	0.441	0.439	3.25	2.06	3.8	5.5	4.1
July.....	29.090	29.373	28.911	70.6	77.9	83.2	67.4	75.3	94	57	64	64	52	64	0.618	0.608	7.52	2.83	5.7	5.4	5.5
August.....	29.162	29.390	29.002	66.8	77.0	82.4	63.1	72.8	90	53	58	60	74	58	0.496	0.539	2.75	1.32	3.4	4.7	4.7
September.....	29.208	29.493	28.958	62.3	70.5	76.5	59.6	68.0	86	50	57	59	63	68	0.480	0.513	3.34	1.54	6.4	4.5	5.5
October.....	29.170	29.529	28.677	51.1	61.4	68.8	48.5	58.6	84	26	46	46	63	59	0.336	0.343	5.32	3.40	3.1	2.1	3.0
November.....	29.117	29.387	28.675	32.2	40.1	46.5	29.5	37.5	68	20	27	29	81	64	0.149	0.163	1.90	1.35	5.7	4.5	5.9
December.....	29.232	29.844	28.710	24.0	28.3	33.5	20.4	27.0	50	8	20	22	85	76	0.113	0.117	1.73	0.65	5.7	5.3	6.3
Year.....	29.164	29.873	28.613	46.9	55.3	61.0	43.4	52.2	94	-2	40	41	79	62	.302	.315	39.28	3.40	5.4	4.9	5.4

IOLA, KANS.

[$\phi=37^{\circ} 55' N.$; $\lambda=95^{\circ} 25' W.$]

January.....	29.077	29.535	28.620	26.7	41.6	42.8	22.2	32.2	69	-3	23	22	84	73	0.131	0.118	1.15	0.61	4.4	4.4	5.1
February.....	29.067	29.425	28.500	23.8	40.5	43.6	18.6	28.0	65	4	20	20	83	70	0.118	0.126	.89	.28	4.2	4.2	4.4
March.....	29.018	29.307	28.760	35.6	47.8	51.5	43.1	57.4	89	26	37	37	74	64	0.226	0.226	.32	.19	2.5	2.5	2.6
April.....	28.876	29.223	28.611	48.9	60.0	64.0	44.8	57.4	92	30	40	40	73	73	0.265	0.265	1.10	.79	5.3	4.9	4.9
May.....	28.943	29.318	28.640	55.7	67.0	70.5	50.8	60.6	86	40	50	50	60	60	0.379	0.379	8.59	2.55	6.1	4.9	5.6
June.....	28.917	29.196	28.590	65.6	72.0	75.7	60.9	71.8	94	50	60	60	50	50	0.523	0.523	1.62	.51	4.2	4.2	4.1
July.....	28.891	29.181	28.770	72.0	77.0	82.7	68.0	80.4	105	56	64	64	40	40	0.612	0.612	.85	.36	3.6	3.6	3.3
August.....	28.949	29.262	28.761	69.3	76.0	81.7	65.7	76.9	98	46	65	65	30	30	0.624	0.624	3.55	1.30	5.3	4.8	4.6
September.....	28.989	29.318	28.617	62.6	73.0	78.1	59.2	70.4	94	42	59	59	40	40	0.515	0.515	6.85	2.22	5.8	4.8	4.4
October.....	29.005	29.390	28.700	48.9	62.6	67.3	46.1	59.6	90	23	44	44	66	66	0.321	0.321	1.14	1.10	2.4	2.4	2.8
November.....	28.996	29.426	28.651	36.6	57.9	62.1	45.0	57.5	75	20	30	30	76	76	0.171	0.171	.05	.05	4.0	4.0	4.0
December.....	29.100	29.619	28.785	26.4	42.4	46.2	22.5	32.4	52	12	21	21	79	79	0.112	0.112	1.14	.79	4.3	4.3	4.3
Year.....	28.988	29.619	28.500	48.5	67.8	72.0	44.6	56.1	105	-3	43	43	81	73	.333	.333	27.25	2.55	4.3	4.3	4.2

JACKSONVILLE, FLA.

[$\phi=30^{\circ} 20' N.$; $\lambda=81^{\circ} 39' W.$]

January.....	30.159	30.577	29.441	46.6	53.6	62.8	43.3	53.0	74	34	43	45	88	74	0.291	0.313	1.06	0.33	4.7	3.2	5.0
February.....	30.143	30.523	29.786	49.7	56.0	64.4	46.1	55.2	80	32	46	49	88	78	0.340	0.372	2.43	.77	5.4	5.9	6.0
March.....	30.073	30.298	29.612	57.1	64.3	74.0	55.1	64.6	93	33	52	53	86	70	0.413	0.427	1.89	.97	2.1	2.1	2.5
April.....	29.966	30.223	29.738	61.3	68.2	78.8	57.0	67.9	93	42	55	55	81	65	0.452	0.453	.60	.35	2.5	2.5	3.4
May.....	29.907	30.217	29.635	70.4	74.0	83.0	66.2	74.9	92	60	64	64	81	71	0.601	0.590	2.18	.87	4.3	4.3	4.5
June.....	29.847	30.099	29.733	75.9	77.5	86.5	71.0	78.8	95	65	70	70	85	79	0.750	0.729	6.72	2.40	4.0	6.4	5.3
July.....	29.996	30.192	29.841	77.8	78.6	88.8	73.2	81.0	95	69	73	72	85	81	0.807	0.783	6.13	2.03	3.7	6.3	5.4
August.....	29.950	30.090	29.806	77.0	78.1	87.8	73.2	80.5	95	69	74	74	80	86	0.828	0.828	5.82	1.58	4.6	6.4	6.2
September.....	29.995	30.170	29.860	74.5	77.0	86.2	71.1	78.6	93	59	70	70	86	80	0.742	0.748	3.12	1.66	4.2	2.9	3.9
October.....	29.946	30.437	29.079	68.2	71.4	79.3	64.7	72.0	87	37	64	66	86	83	0.628	0.663	8.02	4.96	4.3	2.8	4.3
November.....	29.968	30.200	29.678	52.9	60.3	69.4	49.6	59.5	79	40	47	51	82	73	0.342	0.387	1.64	.89	3.9	1.2	3.6
December.....	30.130	30.498	29.706	44.1	51.6	60.4	41.1	50.8	75	29	40	42	85	70	0.263	0.283	1.07	.44	3.3	1.9	3.5
Year.....	30.024	30.577	29.079	62.9	67.6	76.8	59.3	68.1	95	29	58	59	85	76							

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

JUPITER, FLA.

[φ=26° 57' N.; λ=80° 7' W.]

Month.	Pressure.			Temperature.						Moisture.											
	Monthly mean.	Extremes.		Mean.			Extremes.			Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.					
		Maximum.	Minimum.	8 a. m.	8 p. m.	Monthly.	Maximum.	Minimum.	Monthly.		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.
January.....	30.142	30.397	29.681	60.3	64.2	72.5	56.5	64.5	82	40	54	56	82	80	0.438	0.459	1.47	0.64	5.7	5.6	5.7
February.....	30.128	30.423	29.986	61.9	65.6	72.4	57.7	65.0	81	40	56	59	82	80	0.478	0.518	2.33	0.76	5.4	4.7	6.4
March.....	30.049	30.254	29.884	65.0	67.5	75.9	60.1	68.0	81	53	58	58	80	74	0.497	0.497	6.45	4.99	3.8	4.0	4.0
April.....	29.996	30.196	29.827	69.1	71.4	78.8	61.6	70.2	86	51	60	61	74	70	0.534	0.542	5.51	1.39	3.2	1.7	2.9
May.....	30.017	30.147	29.776	75.9	74.5	81.9	70.5	75.2	91	65	68	68	78	80	0.607	0.681	4.25	1.65	5.3	5.9	4.7
June.....	29.979	30.117	29.813	79.6	77.3	84.6	71.7	78.2	92	69	72	80	85	80	0.790	0.753	2.09	2.09	5.1	7.4	5.6
July.....	30.022	30.149	29.906	81.6	70.0	86.7	73.7	80.2	89	67	74	73	78	82	0.838	0.814	4.20	1.42	4.3	4.9	4.6
August.....	29.958	30.066	29.805	80.9	79.2	87.1	74.3	80.7	91	68	75	74	83	84	0.874	0.828	10.46	4.92	5.5	6.1	4.7
September.....	29.950	30.122	29.838	81.1	79.6	86.6	74.2	80.4	90	68	73	72	77	78	0.809	0.787	4.92	2.08	4.8	4.6	4.6
October.....	29.912	30.265	29.267	74.5	74.9	81.5	69.2	75.4	86	50	69	69	84	84	0.732	0.728	20.88	8.64	6.0	5.7	5.3
November.....	29.963	30.085	29.748	62.8	66.1	75.6	58.0	66.8	81	44	57	59	82	77	0.473	0.507	1.31	0.88	2.9	2.9	3.2
December.....	30.106	30.347	29.795	56.5	61.3	69.8	52.1	61.0	82	36	51	54	83	76	0.396	0.428	1.11	0.80	3.8	3.4	3.8
Year.....	30.019	30.423	29.267	70.8	71.7	79.4	65.0	72.2	92	36	64	65	80	79	0.631	0.632	66.22	8.64	4.6	4.7	4.6

KALISPELL, MONT.

[φ=48° 10' N.; λ=114° 25' W.]

January.....	26.936	27.336	26.365	19.4	24.8	29.7	15.3	22.5	49	- 8	16	18	84	75	0.097	0.104	0.78	0.19	8.5	7.3	7.4
February.....	26.966	27.433	26.251	13.8	21.4	25.9	10.5	18.2	42	-22	11	16	86	79	0.078	0.095	2.06	0.60	7.2	7.6	6.9
March.....	26.958	27.277	26.498	32.1	48.2	51.7	30.4	41.0	64	19	28	30	85	50	0.136	0.169	1.45	1.62	5.2	5.7	5.0
April.....	26.930	27.295	26.318	37.6	56.7	59.8	35.8	47.8	84	25	32	33	80	45	0.184	0.194	0.86	0.29	6.1	5.8	5.2
May.....	26.949	27.300	26.048	42.2	64.4	68.5	41.0	54.8	81	29	37	37	82	40	0.221	0.226	1.67	0.73	4.4	5.8	4.2
June.....	26.871	27.148	26.532	47.4	70.0	73.6	45.5	69.5	61	33	40	40	75	35	0.247	0.252	2.40	1.16	5.3	4.5	4.3
July.....	26.880	27.106	26.632	51.5	70.9	82.9	50.3	66.9	95	44	41	41	68	35	0.263	0.262	0.49	0.27	3.1	3.7	3.0
August.....	26.958	27.298	26.698	45.8	70.0	73.8	44.4	59.1	86	30	37	39	71	35	0.221	0.243	0.67	0.71	3.1	3.7	4.7
September.....	26.991	27.285	26.661	42.3	58.9	63.7	41.0	52.4	80	25	38	44	86	50	0.230	0.292	2.31	0.77	5.6	5.6	5.1
October.....	26.970	27.532	26.349	39.0	50.8	57.4	36.6	47.0	73	19	35	39	85	65	0.209	0.241	1.29	0.35	4.7	5.7	5.2
November.....	26.918	27.227	26.547	31.4	36.3	40.2	29.6	34.9	56	18	28	31	86	80	0.153	0.171	1.68	0.38	7.6	8.7	8.4
December.....	27.008	27.435	26.448	27.6	30.5	34.3	24.7	29.5	42	5	25	26	88	84	0.132	0.141	0.52	0.26	8.6	7.5	8.5
Year.....	26.945	27.532	26.251	35.8	51.0	55.1	33.8	44.4	95	-22	31	33	82	56	0.183	0.199	14.12	0.77	5.8	6.0	5.7

KANSAS CITY, MO.

[φ=39° 5' N.; λ=94° 37' W.]

January.....	29.064	29.516	28.373	26.2	32.8	38.1	23.1	30.6	64	- 4	21	25	78	72	0.120	0.138	2.06	1.33	3.6	4.9	5.6
February.....	29.100	29.473	28.456	23.4	31.8	38.4	18.1	28.2	64	- 5	16	21	72	68	0.100	0.121	0.79	0.37	4.2	4.4	4.6
March.....	29.010	29.301	28.753	49.2	63.9	69.6	46.9	58.2	90	29	36	41	62	44	0.219	0.265	0.08	1.05	1.5	2.0	1.5
April.....	28.861	29.213	28.469	49.2	61.1	65.7	46.3	56.0	95	30	38	41	68	52	0.247	0.279	2.85	1.19	5.9	4.4	5.0
May.....	28.958	29.362	28.604	55.0	63.9	67.5	62.0	59.8	82	42	47	49	70	62	0.342	0.367	10.92	3.09	6.7	5.8	5.9
June.....	28.934	29.191	28.639	66.1	76.5	79.8	63.1	71.4	92	50	57	59	74	56	0.454	0.509	5.45	3.59	4.1	3.9	3.8
July.....	28.887	29.192	28.671	72.6	83.8	88.2	69.6	78.9	103	62	66	68	79	61	0.632	0.702	2.99	1.23	7.7	5.9	5.5
August.....	28.947	29.267	28.683	68.0	79.4	83.6	66.9	75.2	95	53	63	65	82	63	0.593	0.684	5.00	2.22	5.4	3.8	4.6
September.....	28.962	29.362	28.560	62.1	71.5	77.5	59.8	68.6	91	44	57	61	84	71	0.481	0.546	5.92	2.61	6.1	4.8	5.4
October.....	28.993	29.384	28.489	53.0	64.1	71.5	50.9	61.2	85	20	44	45	73	51	0.318	0.319	0.33	0.23	2.5	2.2	2.5
November.....	29.002	29.387	28.537	37.0	46.7	53.0	34.5	43.8	73	21	29	28	71	49	0.162	0.163	0.28	0.25	4.6	1.3	4.8
December.....	29.062	29.654	28.697	27.2	34.1	39.6	24.4	32.0	51	12	20	24	72	68	0.106	0.133	1.25	1.12	4.5	4.0	4.7
Year.....	28.987	29.654	28.373	49.2	59.1	64.4	46.3	55.3	103	- 5	41	44	74	59	0.317	0.348	37.42	3.69	4.4	3.8	4.3

KEOKUK, IOWA.

[φ=40° 22' N.; λ=91° 26' W.]

January.....	29.440	30.027	28.628	22.8	28.1	34.2	19.8	27.0	52	- 8	18	21	81	75	0.108	0.120	1.61	0.78	2.9	6.3	5.6
February.....	29.498	29.938	28.786	20.9	27.2	34.8	17.4	26.1	58	- 6	16	17	79	64	0.097	0.101	0.99	0.58	4.7	4.1	4.4
March.....	29.399	29.690	29.150	43.4	57.2	65.7	41.5	53.6	86	24	36	38	78	50	0.224	0.235	0.53	0.36	1.5	3.5	2.3
April.....	29.226	29.598	28.860	46.9	56.8	65.2	43.5	54.0	90	23	40	42	78	61	0.260	0.283	2.91	1.25	4.5	6.3	5.3
May.....	29.350	29.819	29.045	52.7	62.4	68.9	49.0	59.0	82	37	45	46	77	58	0.311	0.331	6.87	2.99	5.3	5.2	4.6
June.....	29.325	29.562	29.066	65.8	76.3	82.1	61.5	71.8	97	45	53	53	76	55	0.494	0.606	1.94	0.90	3.2	4.0	2.7
July.....	29.299	29.535	29.104	70.0	80.5	86.4	66.4	76.4	99	57	63	64	80	60	0.591	0.620	2.74	1.24	3.7	5.7	3.6
August.....	29.329	29.642	29.079	67.1	77.3	84.2	64.6	74.4	95	48	61	62	81	61	0.555	0.581	0.92	0.67	4.0	4.8	3.6
September.....	29.300	29.756	29.007	58.9	69.0	76.5	56.9	66.7	91	43	55	59	80	72	0.447	0.516	2.08	0.49	4.6	4.4	4.9
October.....	29.302	29.757	29.012	50.3	61.1	70.7	47.0	59.2	86	22	44	46	81	50	0.317	0.337	0.81	0.40	2.0	2.8	3.0
November.....	29.378	29.693	28.974	32.1	38.2	46.3	28.9	37.6	66	18	25	26	76	61	0.142	0.143	0.23	0.19	5.7	3.4	5.0
December.....	29.463	30.088	29.074	22.6	29.7	37.6	20.0	28.8	40	4	18	19	80	63	0.098	0.106	0.79	0.66	5.4	3.0	3.6
Year.....	29.369	30.088	28.628	46.1	55.3	62.7															

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

KEY WEST, FLA.

[$\phi=24^{\circ} 33' N.$; $\lambda=81^{\circ} 48' W.$]

Month.	Pressure.			Temperature.										Moisture.								
	Extremes.			Mean.					Extremes.		Dew point.			Relative humidity.		Vapor pressure.		Precipitation.		Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Day/light.	
January.....	30.132	30.347	29.784	64.9	66.8	72.8	62.5	67.6	80	55	59	59	62	77	0.511	0.512	0.62	0.32	3.3	2.1	3.5	
February.....	30.113	30.405	29.967	66.0	68.3	74.0	63.9	69.0	81	52	60	61	80	79	.532	.557	.83	.82	3.6	1.9	3.0	
March.....	30.048	30.189	29.925	69.0	69.9	76.1	66.5	71.3	81	61	60	61	72	75	.517	.549	.35	.33	2.6	1.2	2.5	
April.....	30.010	30.179	29.896	73.7	73.1	79.6	68.9	74.2	83	64	63	63	70	71	.582	.582	.03	.03	4.3	1.2	3.8	
May.....	30.004	30.117	29.802	77.7	77.1	83.5	73.4	78.4	87	68	71	69	80	77	.758	.721	.86	.45	4.7	3.5	4.1	
June.....	29.982	30.103	29.809	81.8	80.2	86.9	76.9	81.9	89	72	72	72	73	76	.792	.777	1.06	.89	4.5	4.8	4.8	
July.....	30.014	30.106	29.952	82.8	81.5	87.9	77.8	82.8	90	71	73	72	73	75	.813	.797	2.57	1.09	5.4	5.2	5.6	
August.....	29.953	30.036	29.858	83.7	82.9	88.9	77.3	83.1	92	72	74	73	73	72	.839	.815	3.21	.88	4.8	4.4	4.8	
September.....	29.939	30.076	29.851	81.0	80.6	86.4	76.5	81.4	90	73	74	73	73	77	.830	.810	6.42	1.89	5.4	3.3	5.8	
October.....	29.877	30.238	28.448	77.7	77.5	82.1	72.2	77.2	87	59	71	70	80	78	.738	.748	10.95	4.12	5.9	3.6	5.2	
November.....	29.986	30.064	29.849	69.8	69.8	75.2	65.5	70.4	79	58	62	62	77	76	.556	.561	1.35	.92	2.4	1.3	2.0	
December.....	30.114	30.328	29.880	63.5	65.6	70.5	60.1	65.3	78	51	58	58	81	78	.485	.499	.18	.11	3.2	2.3	3.1	
Year.....	30.014	30.405	28.448	74.3	74.4	80.3	70.1	75.2	92	51	66	66	77	76	.665	.661	28.43	4.12	4.2	2.9	4.0	

KNOXVILLE, TENN.

[$\phi=35^{\circ} 56' N.$; $\lambda=83^{\circ} 58' W.$]

January.....	29.087	29.615	28.497	33.4	40.8	46.6	29.8	35.2	64	15	29	33	84	73	0.169	0.196	3.66	1.58	6.8	5.3	6.3
February.....	29.104	29.380	28.622	33.1	42.6	47.9	30.2	39.0	66	16	27	29	78	61	.164	.177	4.19	1.13	5.5	5.2	5.0
March.....	29.056	29.277	28.795	47.5	63.0	69.1	45.5	57.3	84	25	41	41	78	48	.267	.276	.72	.60	3.2	3.1	4.1
April.....	28.901	29.177	28.642	51.3	61.6	67.9	47.7	57.8	85	33	43	42	74	54	.284	.286	4.12	.90	5.1	6.0	5.7
May.....	28.987	29.306	28.616	57.7	67.1	72.8	53.4	63.1	84	40	51	52	80	60	.392	.403	7.28	1.57	5.3	5.0	5.1
June.....	28.935	29.099	28.659	65.4	72.9	80.4	62.1	71.2	90	51	60	63	84	72	.534	.581	3.13	.98	6.5	7.5	6.3
July.....	28.953	29.129	28.723	71.4	77.5	84.7	68.4	76.5	90	61	68	68	89	74	.683	.697	5.09	1.30	6.9	6.5	5.9
August.....	28.989	29.145	28.831	69.5	76.9	84.8	66.2	75.5	90	61	66	67	88	72	.636	.656	3.86	.92	5.3	5.5	5.3
September.....	29.049	29.217	28.882	66.0	73.5	82.6	63.4	73.0	88	51	63	65	91	76	.588	.635	3.68	.91	5.0	4.6	4.8
October.....	29.024	29.458	28.712	54.5	64.3	73.2	50.9	62.0	87	24	51	52	87	66	.393	.413	1.88	.88	3.0	3.5	3.8
November.....	28.978	29.251	28.642	36.9	46.7	53.8	33.3	43.6	68	26	33	34	86	62	.191	.207	.97	.80	4.1	3.7	4.4
December.....	29.097	29.583	28.479	29.3	37.8	41.8	26.9	34.4	66	17	27	30	89	73	.147	.173	4.94	3.05	5.1	6.0	6.0
Year.....	29.013	29.615	28.479	51.3	60.4	67.1	48.2	57.6	90	15	47	48	84	66	.371	.392	43.32	3.05	5.2	5.0	5.2

LA CROSSE, WIS.

[$\phi=43^{\circ} 49' N.$; $\lambda=91^{\circ} 15' W.$]

January.....	29.286	29.901	28.367	12.7	18.8	25.0	6.2	15.9	41	-21	9	.....	84	.....	0.076	.....	1.33	0.57	6.7	5.6	6.6
February.....	29.356	29.823	28.807	10.0	18.7	24.9	5.3	15.1	42	-14	5	.....	78	.....	.060	.....	.51	.24	6.5	3.8	5.7
March.....	29.239	29.586	28.956	37.3	50.2	57.0	34.4	45.7	83	18	30	.....	75	.....	.174	.....	.03	.02	3.5	4.6	4.1
April.....	29.112	29.397	28.726	42.8	56.4	63.9	38.1	51.0	93	20	37	.....	80	.....	.232	.....	2.23	.63	6.1	6.2	6.0
May.....	29.246	29.765	28.889	49.2	61.3	66.1	44.3	55.2	78	31	41	.....	74	.....	.236	.....	1.63	.93	5.2	5.2	5.1
June.....	29.241	29.474	28.986	60.8	77.9	83.8	55.9	69.8	100	40	54	.....	80	.....	.441	.....	.37	.27	3.1	2.8	2.8
July.....	29.161	29.488	28.946	65.1	81.6	88.1	60.9	74.5	98	52	59	.....	82	.....	.510	.....	1.03	.48	3.7	2.8	3.9
August.....	29.203	29.517	28.991	62.5	74.3	81.4	59.6	70.5	94	45	58	.....	87	.....	.499	.....	4.99	1.97	5.0	6.0	5.5
September.....	29.231	29.674	28.946	53.6	62.8	71.2	50.1	60.6	84	40	50	.....	87	.....	.367	.....	2.85	1.14	5.2	4.0	4.9
October.....	29.202	29.553	28.756	45.1	54.8	64.4	42.3	54.4	85	24	40	.....	82	.....	.290	.....	.67	.40	3.4	4.1	4.3
November.....	29.230	29.590	28.781	26.4	30.7	36.0	23.5	29.8	52	14	22	.....	82	.....	.117	.....	.46	.36	3.3	5.7	6.7
December.....	29.305	29.855	28.839	17.0	21.8	27.9	12.5	20.2	46	-3	13	.....	82	.....	.078	.....	.67	.30	6.3	4.8	5.7
Year.....	29.238	29.901	28.367	40.2	50.8	57.5	36.1	46.8	100	-21	35	.....	81	.....	.257	.....	16.77	1.97	5.2	4.6	5.1

LANDER, WYO.

[$\phi=42^{\circ} 59' N.$; $\lambda=108^{\circ} 45' W.$]

January.....	24.632	25.055	24.161	6.2	14.8	25.5	-2.0	11.8	50	-32	2	8	82	76	0.055	0.071	2.06	1.92	4.3	4.5	4.6
February.....	24.597	25.033	24.089	5.0	19.4	26.0	-1.8	12.2	51	-22	-1	8	76	62	.044	.063	.39	.27	3.6	4.9	4.1
March.....	24.608	24.914	24.284	30.0	54.7	58.6	27.5	43.0	71	18	23	24	75	31	.124	.125	.59	.47	3.2	4.1	3.6
April.....	24.647	24.968	24.137	35.1	61.0	64.5	32.4	48.4	82	12	27	25	72	28	.147	.132	1.30	.75	3.7	5.0	3.9
May.....	24.679	24.936	24.322	40.9	63.3	67.5	37.1	52.3	86	23	35	31	80	36	.202	.174	1.91	.70	4.1	4.2	3.9
June.....	24.707	24.971	24.320	51.6	77.3	80.9	46.6	63.8	91	33	40	31	67	21	.253	.182	.46	.25	3.5	4.0	3.6
July.....	24.717	24.951	24.467	53.6	80.9	86.0	52.2	69.1	94	42	45	40	69	27	.304	.267	.67	.31	3.7	5.5	4.4
August.....	24.715	25.001	24.456	47.9	77.7	83.0	45.5	64.2	91	23	28	35	70	24	.234	.213	.36	.33	3.3	4.5	3.8
September.....	24.715	25.026	24.410	43.9	67.7	72.7	41.4	57.0	84	25	35	34	73	34	.211	.207	1.21	1.20	4.4	4.4	4.2
October.....	24.716	25.117	24.290	35.1	53.4	63.8	31.1	47.4	80	16	27	27	72	39	.148	.149	.37	.19	4.7	4.6	4.1
November.....	24.623	24.931	24.249	26.4	39.0	49.7	21.0	35.8	64	7	19	22	74	51	.101	.119	T.	T.	4.2	5.4	5.3
December.....	24.663	24.989	24.275	16.3	29.1	41.6	11.6	26.6	56	1	11	15	78	53	.070	.084	T.	T.	3.3	4.3	4.0
Year.....	24.664	25.117	24.089	32.8	53.2	60.0	28.6	44.3	94	-32	25	25	74	40	.158	.149	9.32	1.92	3.8	4.6	4.1

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

LANSING, MICH.

[$\phi=42^{\circ}44' N.$; $\lambda=84^{\circ}26' W.$]

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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.	
In.	In.	In.	°	°	°	°	°	°	°	°	°	%	%	In.	In.	In.	In.					
January.....																						
February.....																						
March.....																						
April.....																						
May.....	29.063	29.514	28.723	49.2	54.4	62.7	40.3	51.5	80	28	44	46	83	73	0.302	0.315	4.13	1.25	5.6	4.8	4.5	
June.....	29.052	29.257	28.628	60.9	68.9	77.7	52.1	64.9	95	37	54	57	78	67	.430	.484	1.95	1.70	4.3	3.6	3.5	
July.....	29.004	29.346	28.790	67.3	74.5	84.6	57.4	71.0	97	42	59	58	74	58	.506	.492	1.53	.94	3.8	3.9	3.9	
August.....	29.077	29.320	28.810	63.0	70.4	80.5	56.0	68.2	90	44	58	59	82	68	.486	.509	1.76	.63	4.9	5.2	5.4	
September.....	29.142	29.445	28.856	54.7	60.6	71.5	48.9	60.2	81	37	52	54	90	79	.395	.423	2.74	1.31	4.3	4.7	4.8	
October.....	29.063	29.459	28.569	46.0	50.9	62.8	40.9	51.8	82	23	43	46	90	84	.296	.328	2.27	.93	4.2	3.6	4.2	
November.....	28.977	29.338	28.660	31.3	33.6	39.5	28.4	34.0	63	21	28	30	88	84	.153	.165	1.37	.43	6.0	7.9	8.2	
December.....	29.097	29.692	28.541	20.9	22.5	28.7	14.5	21.6	38	2	18	19	86	84	.098	.101	1.28	.36	8.5	7.2	7.8	
Year.....																						

LA SALLE, ILL.

[$\phi=41^{\circ}20' N.$; $\lambda=89^{\circ}05' W.$]

January.....	29.529	30.069	28.676	19.9	.....	29.6	14.9	22.2	44	-11	17	.....	87	.....	0.103	.....	1.93	0.56	6.1	.....	6.2
February.....	29.509	30.062	29.030	17.8	.....	30.3	13.8	22.0	57	-11	13	.....	80	.....	.087	.....	1.17	.45	6.0	.....	5.2
March.....	29.497	29.749	29.179	40.7	.....	61.1	37.5	49.3	84	24	35	.....	80	.....	.213	.....	.19	.12	3.7	.....	2.8
April.....	29.334	29.717	29.016	45.0	.....	63.5	40.2	51.8	88	21	39	.....	80	.....	.252	.....	3.78	.57	5.8	.....	5.9
May.....	29.456	29.953	29.092	50.4	.....	65.9	46.1	56.0	82	34	44	.....	80	.....	.305	.....	6.05	1.55	5.1	.....	5.4
June.....	29.441	29.682	29.177	63.5	.....	82.7	57.2	70.0	99	39	56	.....	76	.....	.459	.....	.89	.27	2.9	.....	3.3
July.....	29.375	29.715	29.227	69.3	.....	88.1	64.6	76.4	96	52	62	.....	77	.....	.556	.....	.79	.24	4.1	.....	4.3
August.....	29.446	29.742	29.243	65.2	.....	84.2	61.6	72.9	92	48	59	.....	82	.....	.515	.....	3.74	3.31	4.3	.....	5.0
September.....	29.519	29.865	29.199	57.8	.....	75.0	54.5	64.8	83	41	54	.....	88	.....	.433	.....	5.09	1.60	5.6	.....	5.0
October.....	29.464	29.854	29.211	48.1	.....	67.8	45.7	56.8	86	22	44	.....	85	.....	.308	.....	1.03	.56	3.4	.....	3.4
November.....	29.463	29.903	29.092	29.5	.....	42.4	26.6	34.5	65	18	25	.....	82	.....	.135	.....	.77	.57	5.6	.....	5.4
December.....	29.557	30.194	29.105	21.2	.....	31.4	17.1	24.2	45	0	17	.....	82	.....	.097	.....	1.11	.52	6.0	.....	5.6
Year.....	29.473	30.194	28.676	44.0	.....	60.2	40.0	50.1	99	-11	39	.....	82	.....	.289	.....	26.51	3.31	4.9	.....	4.8

LEWISTON, IDAHO.

[$\phi=46^{\circ}25' N.$; $\lambda=117^{\circ}2' W.$]

January.....	29.317	29.857	28.733	28.2	.....	37.7	24.8	31.2	55	0	23	.....	80	.....	0.130	.....	1.11	0.29	7.1	.....	7.3
February.....	29.336	29.829	28.724	29.1	.....	39.1	25.8	32.4	54	8	24	.....	80	.....	.123	.....	1.27	.45	5.8	.....	7.6
March.....	29.270	29.664	28.821	41.0	.....	60.4	38.7	49.6	72	30	36	.....	84	.....	.218	.....	1.56	.82	5.7	.....	5.9
April.....	29.242	29.612	28.560	45.8	.....	67.9	43.7	55.8	92	34	39	.....	80	.....	.247	.....	1.36	.35	6.3	.....	6.2
May.....	29.236	29.618	28.964	49.6	.....	76.1	48.3	62.2	97	39	44	.....	83	.....	.296	.....	1.87	.77	4.3	.....	4.3
June.....	29.141	29.468	28.939	53.3	.....	79.8	51.7	65.8	99	42	44	.....	70	.....	.287	.....	.61	.38	3.6	.....	4.7
July.....	29.110	29.309	28.904	59.5	.....	92.1	59.1	75.6	103	52	45	.....	60	.....	.307	.....	.10	.10	2.5	.....	2.9
August.....	29.196	29.540	29.033	55.5	.....	85.5	54.4	70.0	100	42	40	.....	57	.....	.249	.....	.08	.03	2.2	.....	2.6
September.....	29.200	29.412	29.046	51.6	.....	76.2	49.3	62.2	90	38	44	.....	77	.....	.300	.....	1.48	.59	6.5	.....	5.4
October.....	29.267	29.807	28.806	45.5	.....	66.0	43.4	54.7	80	26	42	.....	88	.....	.274	.....	1.06	.40	4.5	.....	5.6
November.....	29.247	29.528	28.947	39.7	.....	48.4	37.4	42.9	66	30	36	.....	88	.....	.219	.....	3.51	.91	7.5	.....	8.9
December.....	29.390	29.792	28.970	33.8	.....	42.6	31.9	37.2	51	25	30	.....	87	.....	.169	.....	.75	.31	6.1	.....	8.0
Year.....	29.246	29.857	28.724	44.4	.....	64.2	42.4	53.3	103	0	37	.....	78	.....	.235	.....	14.71	.91	5.1	.....	5.8

LEXINGTON, KY.

[$\phi=38^{\circ}2' N.$; $\lambda=84^{\circ}33' W.$]

January.....	29.049	29.693	28.570	29.9	.....	39.5	24.4	32.0	60	4	26	.....	87	.....	0.154	.....	4.46	1.23	8.0	.....	7.7
February.....	29.101	29.423	28.765	26.7	.....	40.0	22.9	31.4	60	4	22	.....	84	.....	.132	.....	4.11	1.55	6.4	.....	6.2
March.....	29.050	29.228	28.871	46.1	.....	65.0	43.8	54.4	85	18	40	.....	79	.....	.258	.....	.46	.30	5.2	.....	5.3
April.....	28.871	29.216	28.647	49.3	.....	63.9	44.3	54.1	81	28	44	.....	83	.....	.300	.....	4.22	1.09	6.8	.....	6.6
May.....	28.980	29.343	28.726	55.0	.....	67.9	50.3	59.1	82	36	50	.....	85	.....	.379	.....	6.24	2.06	6.3	.....	5.6
June.....	28.927	29.115	28.558	65.0	.....	78.0	59.5	68.8	90	40	58	.....	80	.....	.508	.....	8.92	1.95	4.8	.....	5.2
July.....	28.925	29.127	28.748	71.2	.....	82.4	67.1	74.8	89	56	66	.....	85	.....	.659	.....	7.96	1.42	7.4	.....	6.7
August.....	28.993	29.141	28.806	67.5	.....	81.4	63.7	72.6	91	51	61	.....	80	.....	.639	.....	4.15	1.48	4.4	.....	4.9
September.....	29.035	29.236	28.846	64.3	.....	78.1	61.0	69.6	87	52	60	.....	87	.....	.541	.....	7.92	4.26	5.1	.....	5.8
October.....	28.988	29.383	28.646	52.8	.....	69.6	49.6	59.6	84	25	48	.....	85	.....	.368	.....	1.67	1.07	2.6	.....	2.9
November.....	28.949	29.168	28.640	33.5	.....	47.3	31.4	39.6	68	23	29	.....	83	.....	.161	.....	1.72	1.23	4.8	.....	5.6
December.....	29.052	29.633	28.535	25.9	.....	35.3	21.9	28.6	56	9	23	.....	88	.....	.129	.....	2.81	1.00	6.7	.....	6.4
Year.....	28.994	29.693	28.570	48.9	.....	62.4	45.0	53.7	91	4	44	.....	84	.....	.343	.....	51.34	4.26	5.7	.....	5.8

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

KEY WEST, FLA.

[H=22 ft.; h₁=10 ft.; h₂=3 ft.; h₃=53 ft.]

Month.	Wind.													Number of days.															
	By self-register.					Number of winds, S. a. m. and S. p. m.								Precipitation.		Snow.		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.	T. or more.	0.01 inch or more, melted.	Hail.	Fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.	
	Miles.	NE.	MI.	SW.																									
January	10.2	NE.	42	SW.	1	6	40	5	3	2	3	0	3	0	17	12	2	5	4	0	0	0	0	0	0	0	0	1	0
February	10.0	E.	25	N.	0	6	13	18	11	3	0	2	2	1	21	6	1	2	1	0	0	0	0	0	0	0	0	0	0
March	10.2	NF.	26	E.	0	14	22	9	5	2	0	0	10	0	24	7	0	3	1	0	0	0	0	0	0	0	0	1	0
April	10.0	SE.	32	NW.	0	9	11	11	9	3	1	3	13	0	14	15	1	1	0	0	0	0	0	0	0	0	0	0	0
May	10.0	E.	24	E.	0	2	8	21	14	4	3	5	5	0	14	15	2	5	3	0	0	0	0	0	0	0	0	0	0
June	7.1	S.	39	SW.	0	0	0	5	9	18	15	7	7	1	5	0	8	22	0	5	3	0	0	0	0	0	0	0	0
July	8.3	E.	29	NW.	0	1	8	26	14	7	3	0	2	1	4	21	6	12	11	6	0	0	0	0	0	0	0	11	0
August	7.5	SE.	29	SE.	0	2	5	6	18	19	6	1	1	1	0	7	6	24	1	14	12	0	0	0	0	6	0	0	0
September	6.8	E.	32	E.	0	2	21	6	27	4	4	3	1	1	0	7	15	8	18	3	0	0	0	0	0	0	0	5	0
October	14.1	E.	100	E.	4	4	6	16	20	8	3	6	1	2	0	11	11	9	14	14	0	0	0	0	0	0	0	0	0
November	8.4	NE.	31	SW.	0	18	27	2	3	1	0	3	5	1	24	4	2	3	3	0	0	0	0	0	0	0	0	0	0
December	10.1	NE.	28	NW.	0	8	33	6	3	1	0	1	10	0	18	12	1	1	2	0	0	0	0	0	0	0	0	0	0
Year..	9.4	NE.	100	S.	5	77	210	172	111	48	31	18	60	3	168	164	33	82	70	0	0	0	0	0	6	0	42	0	0

KNOXVILLE, TENN.

[H=996 ft.; h₁=93 ft.; h₂=84 ft.; h₃=100 ft.]

January	5.5	SW.	30	SW.	0	7	16	4	1	4	17	8	4	1	8	6	17	10	9	8	0	0	0	2	0	0	18	0	0
February	6.3	SW.	28	SW.	0	12	11	2	1	9	14	3	3	1	12	7	9	8	8	4	0	0	0	2	0	0	20	2	0
March	4.3	SW.	23	NW.	0	12	7	6	1	2	19	3	5	7	12	15	4	3	2	0	0	1	0	0	0	3	3	0	0
April	5.9	SW.	31	SW.	0	8	15	1	4	5	21	3	3	0	11	7	12	13	10	2	0	0	0	0	0	0	5	0	0
May	5.4	SW.	22	SW.	0	6	16	5	1	3	18	10	2	1	10	13	8	15	14	0	0	0	0	0	0	0	9	0	0
June	4.4	SW.	20	SW.	0	9	13	7	1	4	16	7	2	2	1	3	19	8	16	13	0	0	0	0	0	0	10	0	0
July	5.0	SW.	25	SW.	0	2	5	5	4	7	33	3	1	2	5	19	7	15	12	0	0	0	0	0	0	0	16	0	0
August	4.0	NE.	19	SW.	0	10	18	14	2	0	8	8	0	2	0	7	18	6	11	9	0	0	0	0	0	0	10	0	0
September	3.8	NE.	36	NE.	0	6	20	4	5	0	14	7	1	3	3	8	18	4	12	10	0	1	2	0	0	0	0	13	0
October	4.5	NE.	28	SE.	0	10	12	8	4	5	10	13	3	4	17	11	3	5	4	2	0	0	5	0	0	0	3	0	0
November	4.5	W.	32	S.	0	0	9	2	2	7	0	6	11	0	7	13	8	9	7	5	0	0	0	0	0	0	14	2	0
December	4.7	NE.	30	SW.	0	5	13	2	2	2	13	8	7	5	8	8	15	10	6	5	0	2	4	0	0	25	1	0	0
Year..	4.9	SW.	36	NE.	0	86	155	65	27	49	195	60	42	32	114	149	102	125	102	25	2	11	8	1	83	71	0	0	0

LA CROSSE, WIS.

[H=714 ft.; h₁=11 ft.; h₂=3 ft.; h₃=48 ft.]

January	5.5	S.	21	NW.	6	4	1	2	6	8	4	2	4	0	8	5	18	8	6	14	8	0	0	24	0	31	0	0	0
February	5.7	S.	17	NW.	0	3	1	1	0	10	4	4	5	0	8	10	10	7	5	13	6	0	0	20	0	28	0	0	0
March	6.8	S.	29	NW.	0	6	0	0	2	16	1	2	4	0	13	14	4	2	0	2	1	0	1	0	0	0	0	0	2
April	6.8	NW.	24	NW.	0	6	0	1	4	7	3	0	9	0	9	8	13	11	9	6	6	1	0	1	1	9	1	0	0
May	5.9	N.	23	W.	0	8	3	0	3	8	2	3	4	0	12	8	11	6	3	0	0	0	0	0	0	0	2	2	0
June	4.1	S.	15	NW.	0	2	2	1	4	10	5	1	4	1	19	6	5	4	2	0	0	0	0	0	0	0	14	0	0
July	4.4	S.	18	SE.	0	6	1	0	7	8	4	2	2	1	18	9	4	7	6	0	0	0	0	0	0	0	6	0	0
August	4.1	S.	24	W.	0	2	2	0	8	8	0	0	3	0	11	8	12	13	8	0	0	0	0	0	0	5	0	15	0
September	4.4	S.	20	NE.	0	5	3	0	5	11	1	3	2	0	14	5	11	8	8	0	0	0	3	0	0	0	0	4	0
October	5.5	S.	22	NW.	0	3	0	1	7	10	1	3	6	0	15	8	8	6	4	2	1	0	2	0	0	0	5	0	0
November	6.1	NW.	20	NW.	0	3	0	1	2	7	0	6	11	0	7	7	16	5	2	12	4	0	0	0	0	0	28	0	0
December	5.6	NW.	20	NW.	0	5	1	0	7	3	3	4	8	0	9	12	10	10	4	14	9	0	0	25	0	31	0	0	0
Year..	5.4	S.	29	NW.	0	53	14	7	55	106	36	30	62	2	143	100	122	87	57	63	35	1	6	80	34	151	30	2	0

LANDER, WYO.

[H=5,372 ft.; h₁=26 ft.; h₂=18 ft.; h₃=36 ft.]

January	3.2	N	25	SW.	0	11	11	4	3	5	7	11	10	0	11	15	5	6	3	6	5	0	0	16	0	31	0	0	0
February	3.7	NE.	35	W.	0	10	16	6	2	3	5	3	11	0	10	16	2	5	3	10	4	0	1	20	0	27	0	0	0
March	4.4	SW.	30	SW.	0	6	7	3	4	8	12	17	4	1	15	13	3	3	2	2	2	0	0	0	0	26	0	0	0
April	4.7	SW.	32	SW.	0	3	8	5	9	4	17	11	3	0	15	12	3	6	6	3	3	0	0	0	0	0	13	2	0
May	4.2	NW.	29	NE.	0	9	6	2	5	5	8	13	12	2	15	12	4	8	7	5	2	1	0	0	0	8	3	0	0
June	4.3	NW.	29	N.	0	6	8	1	3	3	11	12	16	0	15	12	3	4	3	0	0	0	0	0	0	3	0	7	0
July	3.9	SW.	28	SW.	0	8	3	3	1	4	13	18	12	0	12	17	2	10	6	0	0	0	0	0	0	7	0	12	0
August	3.9	W.	26	W.	0	3	7	2	3	3	9	17	18	0	13	17	1	3	1	0	0	0	0	0	0	3	4	5	0
September	3.4	SW.	22	W.	0	10	7	5	4	2	8	11	11	2	15	11	4	2	1	1	0	0	0	0	0	0	1	0	0
October	3.3	NE.	23	N.	0	5	6	2	8	11	10	8	12	0	13	14	4	3	3	2	2								

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

LANSING, MICH.

[H=881 ft.; h₁=11 ft.; h₂=3 ft.; h₃=62 ft.]

Month.	Wind.										Number of days.																			
	By self-register.					Number of winds, 8 a. m. and 8 p. m.					Precipitation.	Snow.	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.	T. or more.	0.01 inch or more, melted.	Hail.	Fog.	32° or below.	39° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
	Miles.		Mi.																											
January	6.7	NW	24	SW	0	6	7	7	6	8	7	7	14	0	15	7	9	10	10	0	0	0	0	0	0	0	0	5	3	0
February	4.2	NW	27	N	0	8	11	7	1	4	6	12	11	0	17	7	8	8	8	0	0	0	0	0	0	0	0	0	0	0
March	5.0	SW	25	S	0	6	9	3	5	9	14	10	6	0	14	13	4	9	5	0	0	0	0	0	0	4	0	0	0	
April	4.9	S	20	NW	0	6	10	6	4	14	11	3	7	1	11	8	12	9	6	0	0	0	0	1	0	0	0	0	0	
May	4.8	S	18	SW	0	8	6	5	12	9	7	6	4	4	13	4	13	10	7	0	0	0	2	0	0	0	0	4	0	
June	5.9	SW	24	SW	0	4	2	5	7	13	16	8	6	1	16	5	10	8	7	2	2	1	0	0	0	0	6	2	0	
July	7.9	NW	24	NW	0	1	2	2	7	7	6	9	25	1	1	2	23	15	9	14	8	0	0	3	0	27	0	0		
August	7.1	SW	24	NW	0	5	4	3	4	11	13	9	13	0	4	7	20	14	11	24	14	0	1	21	0	31	0	0		
Year																														

LA SALLE, ILL.

[H=536 ft.; h₁=56 ft.; h₂=49 ft.; h₃=64 ft.]

January	8.7	W.	34	W.	0	2	4	0	3	2	5	10	5	0	9	6	16	12	5	13	8	0	0	20	0	30	0	0	0
February	8.3	W.	30	W.	0	4	2	2	2	2	7	7	5	0	10	8	10	5	3	8	4	0	0	13	0	28	0	0	0
March	8.2	SW	39	NW	0	3	5	2	3	3	6	4	4	5	0	21	8	2	4	2	0	0	1	0	0	11	0	0	0
April	8.9	SW	31	NW	0	4	9	6	6	0	6	2	4	0	10	7	13	16	14	6	4	1	0	0	0	5	3	0	0
May	8.5	NE	31	SW	0	1	9	6	6	0	6	2	7	3	0	11	6	12	15	12	0	0	0	0	0	0	6	3	0
June	6.1	NE	27	NE	0	2	10	4	1	0	2	2	7	3	0	10	6	5	8	5	0	0	0	0	0	12	0	5	0
July	6.5	SW	33	W.	0	1	4	7	2	2	9	2	3	3	1	15	7	9	4	4	0	0	0	0	0	12	0	5	0
August	5.8	SW	28	W.	0	1	5	4	3	2	7	5	2	2	11	11	9	7	4	0	0	0	0	0	0	4	0	6	0
September	6.0	NE	31	NE	0	3	3	8	3	2	4	6	4	1	0	11	8	11	13	11	0	0	0	1	0	0	5	0	
October	6.9	W.	30	SW	0	2	2	1	4	4	6	6	4	2	20	4	7	7	5	2	2	0	5	0	0	2	1	0	
November	8.2	W.	28	NW	0	0	0	4	3	1	3	12	5	2	12	5	13	8	5	4	0	1	0	3	0	25	2	0	
December	8.7	W.	27	SW	0	1	4	0	4	2	3	10	7	0	10	8	12	8	7	14	7	0	0	16	0	30	0	0	
Year	7.6	W.	39	NW	0	24	55	37	35	25	58	73	50	8	159	87	119	107	77	47	25	2	7	52	28	131	37	1	

LEWISTON, IDAHO.

[H=757 ft.; h₁=10 ft.; h₂=4 ft.; h₃=51 ft.]

January	7.1	E.	40	W.	1	1	1	17	7	1	2	1	1	1	13	17	9	7	7	3	0	0	9	0	23	0	0	0
February	7.1	E.	45	W.	1	0	1	18	3	1	5	0	0	0	4	5	19	14	11	7	5	0	0	5	0	21	0	0
March	4.8	E.	47	W.	1	0	1	24	1	1	2	2	1	1	10	6	15	11	5	0	0	0	0	0	0	4	0	0
April	6.0	E.	52	W.	1	0	14	1	2	4	5	1	2	5	13	12	11	8	0	0	0	0	0	0	1	0	2	0
May	5.5	E.	40	W.	1	0	4	17	1	4	2	2	0	0	14	7	16	9	8	0	0	0	0	0	2	0	3	0
June	7.0	E.	54	W.	3	1	1	23	0	1	2	1	1	1	12	12	6	5	3	0	0	0	0	0	2	0	2	0
July	6.6	E.	44	NW	1	0	1	26	1	2	0	0	1	0	18	10	3	1	1	0	0	1	0	0	20	0	1	0
August	6.5	E.	42	W.	3	0	1	19	1	0	4	4	0	2	18	11	2	1	0	0	0	0	0	0	10	0	1	0
September	5.1	E.	36	NW	0	1	1	20	2	3	0	3	0	0	10	9	11	8	5	0	0	0	0	0	1	0	4	0
October	3.7	E.	31	NW	0	0	5	7	5	5	4	0	2	3	12	3	16	6	5	0	0	0	0	0	0	3	0	0
November	4.5	E.	48	W.	1	2	3	13	6	2	1	2	0	1	2	3	25	18	12	3	3	0	0	0	0	6	0	0
December	4.3	E.	30	W.	0	1	6	9	6	1	2	5	0	1	5	3	23	12	7	2	2	0	1	0	0	17	0	0
Year	5.7	E.	54	W.	14	7	25	207	84	23	22	30	5	12	111	95	159	105	72	19	13	1	1	14	36	74	16	0

LEXINGTON, KY.

[H=989 ft.; h₁=75 ft.; h₂=68 ft.; h₃=102 ft.]

January	12.5	S.	46	W.	2	2	4	0	4	7	4	8	2	0	5	8	13	15	11	10	0	0	1	9	0	23	0	0
February	12.4	S.	38	W.	0	3	3	6	6	6	3	3	3	0	7	5	13	11	10	6	4	0	2	8	0	22	0	0
March	10.1	SW	35	W.	0	0	3	2	2	10	8	1	1	0	10	10	13	3	2	2	0	0	0	0	0	4	0	0
April	11.0	SW	40	SW	1	1	0	14	1	2	4	6	0	0	5	13	12	11	8	0	0	0	0	0	1	0	2	0
May	10.3	SW	40	SW	1	6	1	2	6	5	4	6	3	1	0	9	12	10	15	11	0	0	0	0	0	0	6	0
June	7.7	NE	37	NW	0	3	5	3	2	2	8	8	3	1	9	12	9	9	7	0	0	0	0	0	1	0	10	0
July	7.8	SW	35	NW	0	0	3	1	3	7	11	3	3	0	6	7	18	19	15	0	0	0	0	0	0	0	21	0
August	6.8	SE	36	SW	0	3	7	2	8	0	2	2	1	0	14	7	10	9	9	0	0	0	0	0	0	6	0	0
September	7.7	S.	38	SW	0	1	6	3	1	7	7	1	2	2	19	12	8	10	10	0	0	1	0	0	0	0	12	0
October	9.3	S.	30	S.	0	0	5	2	3	7	6	5	3	0	15	12	4	6	5	1	1	1	0	2	0	3	1	0
November	10.3	W.	36	W.	0	1	4	1	4	2	4	9	5	0	11	8	11	7	6	1	1	0	1	1	0	17	3	0
December	10.8	W.	32	NW	0	1	1	2	7	7	5	4	4	0	7	9	15	11	7	11	6	0	3	12	0	29	0	0
Year	9.7	S.	46	W.	4	21	47	20	51	72	68	49	33	4	108	116	141	129	109	33	20	0	10	30	2	100	65	0

MONTHLY AND ANNUAL SUMMARIES, 1910.

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ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

LINCOLN, NEBR.

[φ=40° 49' N.; λ=96° 45' W.]

Month.	Pressure.			Temperature.						Moisture.												
	Monthly mean.	Extremes.		Mean.			Extremes.		Dew point.	Relative humidity.	Vapor pressure.		Precipitation.	Cloudiness.								
		Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.			Maximum.	Minimum.		8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.		
January.....	In. 28.825	In. 29.272	In. 28.045	° 18.2	° 24.8	° 29.8	° 13.9	° 21.8	° 46	° 13	° 14	° 20	° 28	° 85	° 80	In. 0.93	In. 1.12	In. 1.15	In. 50	5.5	5.7	6.4
February.....	28.857	29.249	28.267	18.8	27.1	34.9	13.5	24.2	58	14	17	17	28	81	63	0.89	1.01	1.18	18	4.5	4.1	4.7
March.....	28.760	29.137	28.317	40.2	61.3	68.4	38.4	53.4	90	26	32	32	74	36	184	1.89	1.10	1.10	10	3.3	3.3	3.4
April.....	28.646	28.989	28.062	45.1	61.4	68.7	42.6	55.6	97	28	33	34	64	39	201	2.04	1.02	1.02	10	4.8	4.1	5.0
May.....	28.753	29.151	28.354	49.2	62.5	67.8	46.7	57.2	82	32	43	44	79	56	283	3.01	3.61	3.61	1.14	6.1	6.2	5.6
June.....	28.712	28.945	28.474	63.4	78.9	83.2	60.7	72.0	95	46	56	55	77	45	458	4.42	2.09	2.09	1.43	4.4	3.7	4.3
July.....	28.666	28.970	28.403	67.6	84.3	89.7	64.0	76.8	106	54	60	58	77	43	523	4.99	3.03	3.03	2.26	5.1	4.5	4.7
August.....	28.720	29.040	28.440	64.7	78.2	84.5	62.5	73.5	98	48	59	62	83	60	517	5.82	14.21	14.21	8.38	6.1	5.9	6.1
September.....	28.764	29.178	28.385	58.5	69.1	75.8	56.4	66.6	92	39	55	58	87	70	442	5.06	5.06	5.06	3.91	5.6	4.9	5.2
October.....	28.740	29.141	28.292	48.0	61.2	70.5	46.0	58.2	88	26	41	44	78	55	277	3.12	1.21	1.21	1.15	3.4	2.4	3.0
November.....	28.781	29.233	28.310	31.1	41.3	50.6	27.3	39.0	76	18	24	25	75	53	129	1.97	1.10	1.10	0.85	5.8	3.5	5.1
December.....	28.841	29.366	28.439	24.6	28.7	34.6	20.0	27.3	49	7	19	22	78	76	104	1.19	0.57	0.57	37	5.5	4.3	5.2
Year.....	28.735	29.366	28.045	44.1	56.6	63.3	41.0	52.1	106	-13	35	39	78	56	275	2.92	31.33	31.33	8.38	5.0	4.4	4.9

LITTLE ROCK, ARK.

[φ=34° 45' N.; λ=92° 6' W.]

January.....	29.802	30.274	29.383	39.0	47.3	53.0	35.2	44.1	75	10	30	29	71	51	190	1.77	2.76	2.76	0.77	5.4	4.5	4.5
February.....	29.805	30.161	29.474	33.3	44.3	49.9	30.9	40.4	68	9	27	28	77	57	152	1.73	4.59	4.59	3.40	6.9	5.5	5.6
March.....	29.741	29.955	29.433	52.9	68.0	73.3	51.3	62.3	87	37	44	47	73	50	289	3.42	0.87	0.87	0.70	3.6	3.2	3.5
April.....	29.590	29.904	29.240	53.6	64.5	69.7	51.0	60.4	86	33	49	52	85	68	306	4.15	5.73	5.73	2.35	5.1	4.9	5.3
May.....	29.638	29.950	29.386	60.4	70.9	75.4	58.2	66.8	88	47	55	56	83	63	447	4.74	7.19	7.19	2.82	6.8	5.9	5.2
June.....	29.578	29.821	29.287	68.0	76.7	83.3	65.8	74.6	91	59	64	66	87	73	602	6.62	7.25	7.25	2.60	5.1	5.9	4.8
July.....	29.578	29.786	29.364	73.4	82.0	86.9	71.3	79.1	94	65	70	72	90	72	746	7.76	4.73	4.73	1.20	6.8	4.8	5.3
August.....	29.615	29.787	29.494	72.8	81.5	86.9	71.1	79.0	94	61	70	72	91	74	735	7.87	3.82	3.82	1.32	4.7	4.8	5.0
September.....	29.679	29.894	29.444	69.0	80.2	86.3	67.4	76.8	92	61	64	66	86	62	617	6.41	3.12	3.12	1.61	3.3	3.6	3.5
October.....	29.693	30.160	29.378	55.0	66.7	73.7	54.3	64.0	90	31	51	53	84	63	411	4.44	6.44	6.44	3.18	3.4	2.1	3.3
November.....	29.695	30.008	29.369	45.0	56.6	62.4	42.7	52.6	76	33	39	39	70	53	254	2.90	0.09	0.09	0.08	4.4	2.7	4.6
December.....	29.805	30.309	29.365	36.7	48.7	50.1	34.5	42.3	68	23	30	30	76	57	175	1.79	5.40	5.40	3.48	6.0	5.0	5.6
Year.....	29.685	30.309	29.240	55.0	65.4	70.9	52.8	61.9	94	9	49	51	82	62	416	4.44	51.99	51.99	3.48	5.1	4.4	4.7

LOS ANGELES, CAL.

[φ=34° 3' N.; λ=118° 15' W.]

January.....	29.759	30.023	29.363	48.4	56.9	62.8	44.0	53.7	81	33	34	38	60	52	0.201	0.236	1.53	1.99	3.3	4.4	4.4	
February.....	29.759	29.904	29.521	49.2	59.2	65.2	46.0	55.6	82	38	36	38	64	50	221	2.41	1.11	1.11	0.97	4.1	4.1	4.2
March.....	29.639	29.851	29.515	53.1	61.1	67.8	50.2	59.0	86	41	47	47	82	63	324	3.31	1.86	1.86	1.02	5.8	4.4	5.1
April.....	29.639	29.735	29.499	55.8	66.9	73.7	53.4	63.6	100	47	45	46	74	53	312	3.20	0.30	0.30	0.30	4.4	3.6	3.8
May.....	29.610	29.669	29.387	54.8	65.3	72.5	53.4	63.0	83	49	51	51	88	61	377	3.77	0.00	0.00	0.00	5.9	3.1	3.8
June.....	29.560	29.676	29.394	56.4	67.8	73.3	55.5	64.4	85	52	53	53	90	61	400	4.08	0.00	0.00	0.00	7.1	1.8	3.5
July.....	29.539	29.659	29.381	61.3	72.1	80.5	59.9	70.2	93	54	56	56	85	59	453	4.56	0.04	0.04	0.04	6.7	1.9	3.2
August.....	29.559	29.697	29.408	60.9	72.6	80.6	59.6	70.1	90	55	57	58	87	57	459	4.52	T.	T.	0.1	6.2	1.5	2.4
September.....	29.537	29.700	29.380	62.4	72.2	81.3	59.7	70.5	88	54	55	56	80	59	441	4.54	0.01	0.01	0.01	6.2	1.4	3.1
October.....	29.599	29.800	29.394	60.2	67.5	77.0	57.4	67.2	96	49	49	53	72	64	361	4.09	0.82	0.82	0.82	7.3	3.5	2.4
November.....	29.662	29.818	29.443	54.2	61.1	69.0	51.6	60.3	85	43	45	49	76	68	318	3.60	0.15	0.15	0.09	4.8	4.1	4.6
December.....	29.709	29.845	29.494	53.7	60.3	69.4	50.1	59.8	83	42	36	42	56	55	218	2.81	0.07	0.07	0.04	3.8	3.5	4.3
Year.....	29.635	30.023	29.363	55.8	65.2	72.8	53.4	63.1	100	33	47	49	76	58	341	3.60	4.89	4.89	1.99	5.2	3.0	3.7

LOUISVILLE, KY.

[φ=38° 15' N.; λ=85° 45' W.]

January.....	29.367	30.214	29.027	31.5	41.6	46.4	26.4	34.0	64	4	26	27	78	71	0.151	0.151	3.25	0.91	7.5	5.0	7.0	
February.....	29.606	29.942	29.232	27.9	36.2	41.8	24.1	33.0	58	5	21	24	74	64	123	1.42	5.62	5.62	2.62	6.0	4.6	5.5
March.....	29.538	29.735	29.246	47.7	61.6	68.5	45.6	57.0	88	23	37	38	67	43	229	2.39	1.12	1.12	1.12	4.7	2.5	3.9
April.....	29.355	29.721	29.004	50.7	60.7	67.2	46.3	56.8	85	33	41	42	71	54	270	2.87	4.61	4.61	1.91	5.1	5.8	6.2
May.....	29.459	29.847	29.127	57.5	66.5	71.6	53.4	62.5	86	43	47	48	70	54	343	3.52	3.96	3.96	1.52	5.6	6.3	6.9
June.....	29.469	29.609	29.156	66.4	76.2	82.7	62.0	72.4	95	45	57	58	73	56	400	5.07	4.08	4.08	2.41	3.2	5.2	4.4
July.....	29.391	29.630	29.133	72.8	80.2	86.4	69.3	77.8	99	59	67	67	82	66	566	6.82	10.21	10.21	1.83	6.3	5.4	5.5
August.....	29.462	29.663	29.322	68.5	79.3	85.8	65.1	75.4	94	53	62	62	80	57	566	5.70	2.31	2.31	1.51	3.3	4.4	3.6
September.....	29.511	29.757	29.291	62.4	73.9	81.4	62.7	72.0	92	53	61	62	84	69	546	5.81	2.18	2.18	0.87	4.9	3.4	5.1
October.....	29.492	29.867	29.123	53.9	63.8	71.9	51.2	61.6	89	30	48	49	82	60	366	3.76	6.70	6.70	5.06	2.9	2.4	3.0
November.....	29.492	29.867	29.123	38.2	45.0	50.6	33.6	41.2	70	25	29	30	76	55	165	1.08	3.32	3.32	2.69	5.6	3.2	4.5
December.....	29.530	29.718	29.065	28.0																		

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

LYNCHBURG, VA.

[$\phi=37^{\circ} 25' N.$; $\lambda=79^{\circ} 9' W.$]

Month.	Pressure.			Temperature.							Moisture.										
	Monthly mean.	Extremes.		Mean.					Extremes.		Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.				
		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.		Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
January.....	29.377	29.961	28.671	31.9	38.7	46.0	28.4	37.2	71	14	25	31	76	74	0.143	0.177	3.44	1.29	6.3	5.5	6.3
February.....	29.413	29.911	28.915	31.3	39.2	45.5	28.0	36.8	65	15	23	30	69	70	0.130	0.179	3.58	1.36	5.2	4.4	5.3
March.....	29.351	29.687	28.838	45.2	59.3	67.8	42.2	55.0	88	28	38	42	76	56	0.241	0.290	3.36	1.22	4.2	3.1	4.0
April.....	29.196	29.562	28.935	51.7	60.8	68.6	48.8	57.7	90	37	43	48	75	65	0.292	0.349	5.87	2.67	4.9	5.7	5.2
May.....	29.281	29.666	28.892	58.9	66.1	73.8	51.0	62.7	89	37	52	56	78	71	0.404	0.467	2.78	0.93	3.9	4.5	4.7
June.....	29.229	29.458	28.871	66.0	72.0	78.4	60.9	69.6	92	48	59	63	79	75	0.510	0.594	6.59	2.23	5.2	6.3	5.7
July.....	29.239	29.458	28.984	72.7	78.2	86.9	67.6	77.2	94	57	67	70	84	77	0.670	0.735	4.19	1.30	4.2	5.4	5.0
August.....	29.329	29.518	29.090	69.0	75.0	81.8	64.8	73.3	91	59	64	68	85	80	0.604	0.694	2.32	0.74	6.3	6.3	5.9
September.....	29.364	29.563	29.163	65.2	71.8	80.7	61.4	71.0	93	44	61	65	87	80	0.552	0.631	3.19	2.10	4.6	3.5	4.5
October.....	29.537	29.782	28.997	53.6	60.5	71.0	49.7	60.4	86	27	48	52	81	75	0.360	0.420	5.09	2.65	3.1	2.3	4.3
November.....	29.202	29.900	28.870	38.5	43.5	51.7	33.2	42.4	64	23	28	30	67	59	0.142	0.165	3.87	0.49	4.9	2.6	5.6
December.....	29.368	29.857	28.777	29.6	34.6	41.0	29.4	33.7	64	14	12	26	71	70	0.118	0.141	2.00	0.93	4.3	2.8	5.4
Year.....	29.307	29.961	28.671	51.0	58.3	66.1	46.8	56.4	94	14	44	48	77	71	0.347	0.404	40.28	2.67	4.8	4.4	5.2

MACON, GA.

[$\phi=32^{\circ} 50' N.$; $\lambda=83^{\circ} 38' W.$]

January.....	29.800	30.299	29.056	38.2	46.7	56.7	35.2	46.0	73	23	34	45	55	48	0.209	0.227	4.45	2.08	4.1	4.1	4.6
February.....	29.794	30.098	29.374	39.1	45.0	56.0	36.8	46.4	74	22	36	47	57	49	0.227	0.244	4.43	1.15	6.0	5.0	5.5
March.....	29.727	29.970	29.527	51.1	59.3	73.5	48.7	61.1	85	32	47	57	67	54	0.331	0.352	3.26	0.86	2.6	2.6	2.6
April.....	29.598	29.847	29.410	54.1	60.8	74.4	50.4	62.4	88	36	49	58	68	54	0.360	0.382	3.46	2.68	4.7	4.7	4.2
May.....	29.655	29.922	29.405	64.6	70.0	80.6	60.0	70.3	89	48	57	67	77	63	0.476	0.503	2.53	0.68	4.6	4.6	4.3
June.....	29.581	29.751	29.407	71.7	75.0	85.0	67.0	76.0	93	56	65	75	80	66	0.622	0.650	5.48	1.39	5.5	5.5	5.7
July.....	29.621	29.828	29.447	74.8	78.0	87.0	70.5	78.8	93	63	70	80	87	74	0.749	0.779	3.94	1.49	6.0	6.0	6.4
August.....	29.612	29.762	29.523	73.5	77.0	87.9	70.3	79.1	92	65	69	80	87	74	0.720	0.749	2.61	0.56	5.0	5.0	5.6
September.....	29.681	29.818	29.534	69.7	73.0	86.1	66.3	76.2	94	52	66	76	86	74	0.639	0.669	1.25	0.85	4.4	4.4	4.4
October.....	29.650	30.150	29.196	58.4	63.0	77.4	55.6	65.5	90	28	34	45	55	48	0.454	0.484	3.25	2.10	3.1	3.1	3.0
November.....	29.635	29.913	29.392	42.8	48.0	63.0	40.3	51.6	76	32	38	48	58	50	0.236	0.264	1.64	0.85	3.0	3.0	3.6
December.....	29.773	30.165	29.297	35.7	42.0	52.6	33.1	42.8	72	21	29	38	48	40	0.167	0.197	2.77	1.03	5.1	5.1	4.8
Year.....	29.677	30.299	29.056	56.1	63.1	73.4	52.8	63.1	94	21	51	64	75	64	0.432	0.462	36.13	2.91	4.5	4.5	4.6

MADISON, WIS.

[$\phi=43^{\circ} 05' N.$; $\lambda=89^{\circ} 23' W.$]

January.....	28.976	29.578	28.115	15.2	19.3	25.3	8.8	17.0	39	-18	12	14	84	78	0.082	0.088	2.82	1.21	7.2	6.1	6.6
February.....	29.039	29.491	28.551	11.2	18.1	24.1	6.9	15.5	38	-14	7	12	80	73	0.066	0.079	0.74	0.28	6.8	4.6	5.5
March.....	28.963	29.243	28.691	37.5	48.1	55.2	34.0	44.6	82	18	31	32	77	56	0.181	0.190	1.14	0.10	3.6	4.3	2.9
April.....	28.814	29.132	28.311	42.6	53.2	59.9	38.0	49.0	83	19	36	39	78	63	0.222	0.253	4.56	1.18	6.5	6.1	5.8
May.....	28.958	29.470	28.654	48.2	57.5	62.4	44.5	53.4	75	33	38	40	69	54	0.248	0.261	2.82	0.64	4.8	6.0	5.1
June.....	28.960	29.177	28.622	62.5	74.6	79.2	58.5	68.8	97	40	53	52	71	47	0.418	0.410	1.31	0.39	3.3	2.6	2.8
July.....	28.886	29.229	28.657	68.1	79.7	85.2	63.2	74.2	97	54	59	56	74	46	0.509	0.458	0.81	0.28	3.1	4.3	4.5
August.....	28.948	29.223	28.671	64.2	73.3	80.4	60.9	70.6	91	50	57	56	79	58	0.482	0.473	0.66	0.15	6.3	5.3	5.8
September.....	29.004	29.304	28.659	55.9	63.4	69.9	52.2	61.0	81	45	52	53	86	70	0.394	0.413	1.83	0.89	5.5	4.5	5.2
October.....	28.930	29.268	28.454	47.6	54.2	62.6	44.7	53.6	81	26	41	42	78	60	0.273	0.292	0.63	0.41	3.6	3.4	4.8
November.....	28.825	29.277	28.520	27.3	30.6	35.4	24.6	30.0	62	15	24	25	86	78	0.129	0.136	1.59	0.88	6.3	5.6	6.9
December.....	28.997	29.590	28.509	17.7	21.5	27.3	14.0	20.6	40	3	13	15	80	74	0.079	0.087	0.56	0.16	6.2	5.7	6.3
Year.....	28.950	29.593	28.115	41.5	49.5	55.6	37.5	46.5	97	-18	35	36	78	64	0.257	0.262	24.37	3.15	5.3	4.9	5.2

MANTEO, N. C.

[$\phi=35^{\circ} 54' N.$; $\lambda=75^{\circ} 40' W.$]

January.....	.....	.....	.....	.....	.....	32.6	32.5	42.6	68	20	.....	.....	.....	.....	.....	.....	2.94	1.10	.....	.....	.....
February.....	.....	.....	.....	.....	.....	32.4	34.9	43.6	69	15	.....	.....	.....	.....	.....	.....	2.08	1.10	.....	.....	.....
March.....	.....	.....	.....	.....	.....	63.2	44.7	54.0	88	33	.....	.....	.....	.....	.....	.....	1.96	1.02	.....	.....	.....
April.....	.....	.....	.....	.....	.....	69.1	51.2	60.1	87	39	.....	.....	.....	.....	.....	.....	2.40	1.30	.....	.....	.....
May.....	.....	.....	.....	.....	.....	74.0	56.9	65.4	86	37	.....	.....	.....	.....	.....	.....	9.30	4.22	.....	.....	.....
June.....	.....	.....	.....	.....	.....	79.9	64.3	72.1	90	61	.....	.....	.....	.....	.....	.....	5.08	2.00	.....	.....	.....
July.....	.....	.....	.....	.....	.....	86.1	72.1	79.1	92	64	.....	.....	.....	.....	.....	.....	7.68	2.72	.....	.....	.....
August.....	.....	.....	.....	.....	.....	83.6	70.4	77.0	90	60	.....	.....	.....	.....	.....	.....	13.94	5.56	.....	.....	.....
September.....	.....	.....	.....	.....	.....	81.0	68.1	74.6	92	57	.....	.....	.....	.....	.....	.....	3.71	1.90	.....	.....	.....
October.....	.....	.....	.....	.....	.....	74.3	57.9	66.1	86	30	.....	.....	.....	.....	.....	.....	4.05	1.98	.....	.....	.....
November.....	.....	.....	.....	.....	.....	58.3	58.0	48.2	71	30	.....	.....	.....	.....	.....	.....	0.54	1.32	.....	.....	.....
December.....	.....	.....	.....	.....	.....	48.7	29.0	38.8	63	17	.....	.....	.....	.....	.....	.....	2.35	1.28	.....	.....	.....
Year.....	.....	.....	.....	.....	.....	68.6	51.7	60.1	92	15	.....	.....	.....	.....	.....	.....	57.28	5.56	.....	.....	.....

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

LINCOLN, NEBR.

[H=1,189 ft.; h₁=11 ft.; h₂=4 ft.; h₃=84 ft.]

Month.	Wind.											Number of days.																	
	By self-register.		Number of winds, 8 a. m. and 8 p. m.									Precipitation.	Snow.	Thunderstorms.	Auroras.	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.	T. or more.	0.01 inch or more, melted.	Hail.	Fog.	32° or below.	32° or above.	Thunderstorms.	Auroras.
January	10.2	S.	46	NW.	2	8	11	0	5	11	10	6	11	0	10	3	18	4	3	8	2	0	0	0	14	0	31	0	0
February	12.0	N.	46	NW.	1	15	6	3	7	12	5	5	0	0	12	10	6	1	1	1	1	1	1	0	9	0	0	0	0
March	10.8	S.	48	S.	3	4	13	4	4	16	9	7	5	0	19	8	4	1	1	1	1	1	1	2	0	1	10	0	0
April	15.4	SW.	56	N.	6	10	6	6	6	10	10	6	8	0	12	6	12	1	0	4	1	1	1	1	5	1	1	0	0
May	10.8	N.	33	N.	0	13	13	4	4	12	2	2	0	0	9	9	13	12	11	0	0	0	0	0	0	0	5	0	0
June	9.6	SE.	33	NW.	0	3	12	4	4	16	14	1	1	1	14	9	7	6	6	0	0	0	0	0	0	0	8	0	0
July	8.0	S.	50	NE.	1	8	13	2	2	12	17	1	1	0	10	9	8	8	4	0	0	0	1	0	15	0	8	0	0
August	8.6	SE.	42	NE.	2	10	6	6	6	11	11	2	3	1	10	10	14	10	9	0	0	0	1	1	9	0	13	0	0
September	9.3	SE.	34	NE.	0	8	10	5	5	13	13	1	1	1	12	13	13	13	9	6	0	0	0	1	0	1	9	0	0
October	11.1	N.	46	NW.	1	10	3	7	7	8	8	8	0	0	10	0	0	0	0	0	0	0	0	1	0	0	3	0	0
November	9.4	N.	34	N.	0	14	7	5	6	9	9	5	5	0	10	0	0	4	4	0	0	0	0	0	0	23	0	0	0
December	10.3	NW.	40	S.	1	11	6	2	2	5	2	6	13	1	11	8	12	4	3	0	1	4	0	0	12	0	31	0	0
Year	10.5	S.	56	N.	17	114	106	39	104	174	60	46	83	4	151	93	121	64	47	29	10	1	6	36	39	130	46	0	0

LITTLE ROCK, ARK.

[H=357 ft.; h₁=139 ft.; h₂=132 ft.; h₃=147 ft.]

January	10.7	NW.	40	SW.	1	4	3	13	5	7	8	8	14	0	18	4	9	6	6	1	1	0	0	1	0	13	0	0	0
February	10.5	E.	40	SW.	1	8	8	10	9	6	0	3	12	0	10	6	12	9	7	3	3	0	0	0	2	0	14	2	0
March	9.0	SW.	32	S.	0	6	9	4	4	8	22	6	3	0	19	7	5	4	4	0	0	0	2	0	0	0	3	0	0
April	10.6	NW.	37	W.	0	3	4	4	6	8	12	6	17	0	12	5	13	10	7	0	0	0	1	0	0	0	6	0	0
May	9.6	E.	42	N.	1	9	8	8	9	9	6	6	6	0	8	16	7	10	10	0	0	0	0	0	0	0	7	0	0
June	6.9	SE.	56	NW.	3	6	12	9	9	6	5	5	8	0	8	17	5	14	11	0	0	0	1	0	2	0	14	0	0
July	7.7	SW.	36	W.	0	5	11	2	2	19	16	3	4	0	7	17	7	13	10	0	0	0	0	0	7	0	13	0	0
August	5.9	E.	40	NE.	1	8	8	11	10	13	2	3	5	2	8	16	7	11	8	0	0	0	1	0	9	0	10	0	0
September	7.0	NE.	34	W.	0	4	17	4	4	18	8	2	1	1	18	8	4	3	3	0	0	0	0	0	8	0	6	0	0
October	8.2	NE.	37	N.	0	13	8	6	6	12	6	2	3	1	21	4	6	10	6	0	0	0	1	0	1	1	3	0	0
November	8.8	SW.	39	NW.	0	8	8	10	3	7	13	0	11	0	12	12	16	3	2	0	0	0	0	0	0	0	0	0	0
December	8.3	NW.	30	NW.	0	5	10	8	10	6	5	4	13	1	13	3	15	3	7	5	3	0	0	2	0	11	1	0	0
Year	8.6	S.	56	NW.	7	79	106	89	77	119	103	48	104	5	154	115	96	100	81	7	4	2	6	3	27	39	65	0	0

LOS ANGELES, CAL.

[H=338 ft.; h₁=159 ft.; h₂=151 ft.; h₃=191 ft.]

January	6.5	NE.	26	SW.	0	6	21	2	3	2	18	6	3	1	13	11	7	6	5	0	0	0	1	0	0	0	1	0	0
February	7.0	NE.	39	NW.	0	1	23	1	0	3	16	5	7	0	11	12	5	2	2	0	0	0	1	0	0	0	0	0	0
March	5.6	SW.	24	SW.	0	1	16	2	5	4	21	5	8	0	11	7	13	5	4	0	0	1	0	0	0	0	0	0	0
April	6.3	SW.	20	NE.	0	2	17	2	2	2	27	3	5	0	15	10	5	1	1	0	0	0	0	0	3	0	0	0	0
May	5.8	SW.	22	SW.	0	2	12	6	4	1	32	1	4	0	17	12	2	0	0	0	0	0	2	0	0	0	0	0	0
June	5.8	SW.	18	SW.	0	0	10	5	5	2	32	0	5	1	16	13	1	0	0	0	0	0	1	0	0	0	0	0	0
July	5.7	SW.	21	SW.	0	1	8	3	7	4	32	4	3	0	19	11	1	1	1	0	0	0	0	0	4	0	0	0	0
August	5.3	SW.	21	S.	0	0	8	7	4	5	30	2	5	1	25	6	0	0	0	0	0	0	0	1	0	2	0	1	0
September	6.3	SW.	30	NE.	0	0	14	1	6	2	27	7	3	0	19	9	2	1	0	0	0	0	3	0	3	0	1	0	0
October	5.4	SW.	24	SW.	0	5	17	3	3	3	23	6	2	0	23	5	3	5	3	0	0	0	3	0	3	0	1	0	0
November	5.0	NE.	21	NW.	0	2	23	1	0	3	21	4	6	0	13	8	9	4	1	0	0	0	3	0	0	0	0	0	0
December	6.2	NE.	22	NW.	0	3	26	3	1	3	11	9	6	0	12	15	4	2	1	0	0	0	2	0	0	0	0	0	0
Year	5.8	SW.	39	NW.	0	23	195	36	40	34	290	52	57	3	194	119	52	27	18	0	0	1	17	0	15	0	4	0	0

LOUISVILLE, KY.

[H=525 ft.; h₁=111 ft.; h₂=103 ft.; h₃=132 ft.]

January	9.2	S.	40	W.	1	7	7	3	6	12	11	10	6	0	7	7	17	14	7	10	6	0	0	6	0	21	0	0	0
February	9.3	W.	30	W.	0	7	9	2	6	11	9	8	6	0	14	10	8	12	10	7	1	0	0	1	0	0	2	1	0
March	7.5	SW.	32	NW.	0	8	6	9	7	10	15	8	2	0	7	7	16	13	12	4	0	0	0	1	0	0	0	2	0
April	8.1	SW.	37	SW.	0	8	7	9	7	10	15	8	2	0	7	7	16	13	12	4	0	0	0	0	0	0	0	2	0
May	8.5	SW.	36	W.	0	9	10	9	6	6	17	5	3	0	11	6	14	12	10	0	0	0	0	0	0	0	0	4	0
June	6.8	NE.	35	NW.	0	13	14	5	4	3	12	8	1	0	13	11	6	8	7	0	0	0	0	0	10	0	10	0	0
July	6.6	SE.	42	W.	1	7	4	2	11	10	19	5	4	0	9	11	17	17	0	0	0	0	0	0	8	0	18	0	0
August	5.6	SE.	23	W.	0	13	10	3	15	3	9	4	5	0	17	9	5	4	0	0	0	0	0	0	8	0	3	0	0
September	6.2	SW.	28	NE.	0	12	6	2	11	12	13	2	1	1	10	14	6	9	7	0	0	0	3	0	3	0	10	0	0
October	7.1	SW.	22	W.	0	8	4	3	7	11	11	8	5	5	21	5	5	6	4	1	1	0	1	0	1	0	2	2	0
November	8.1	W.	34	NW.	0																								

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

MARQUETTE, MICH.
[φ=46° 34' N.; λ=87° 24' W.]

Month.	Pressure.			Temperature.						Moisture.											
	Monthly mean.	Extremes.		Mean.			Extremes.			Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.					
		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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
January	In. 29.232	In. 29.938	In. 28.581	17.9	20.3	26.0	14.0	20.0	42	-3	14	16	82	63	0.080	0.091	2.03	0.64	7.3	6.4	7.4
February	29.283	29.710	28.873	11.7	16.3	22.8	7.6	15.2	43	-10	8	10	82	77	0.064	0.074	2.81	1.25	5.8	4.5	6.4
March	29.170	29.559	28.684	34.0	39.3	48.6	28.2	38.4	81	15	27	32	74	76	0.154	0.200	2.21	0.08	5.5	4.9	5.7
April	29.145	29.478	28.570	39.6	42.8	50.0	34.6	42.3	75	26	34	37	80	81	0.195	0.225	3.89	1.21	7.2	6.0	6.5
May	29.224	29.804	28.729	45.5	47.4	55.0	38.6	46.8	78	27	36	39	72	75	0.222	0.248	2.55	0.94	5.5	5.4	5.8
June	29.216	29.437	28.882	62.0	63.8	71.8	53.5	62.6	93	55	60	61	65	66	0.374	0.399	8.2	1.56	4.4	4.4	5.1
July	29.132	29.516	28.790	65.2	67.7	74.7	57.8	66.2	92	47	55	58	83	84	0.422	0.432	2.49	1.74	3.8	4.0	5.5
August	29.198	29.515	28.856	61.0	63.2	70.8	55.0	62.9	90	45	56	58	83	84	0.432	0.491	3.33	1.68	5.8	4.5	6.3
September	29.263	29.617	28.800	53.0	56.6	64.8	48.1	56.4	79	37	47	50	78	80	0.326	0.371	1.77	0.75	5.6	4.9	5.2
October	29.164	29.559	28.757	46.2	48.5	57.5	41.3	49.4	83	24	38	40	74	73	0.237	0.250	3.53	1.11	5.9	4.6	6.4
November	29.158	29.555	28.852	29.5	31.0	34.5	26.8	30.6	46	22	26	28	86	86	0.140	0.148	3.44	0.87	9.3	9.3	8.6
December	29.217	29.840	28.655	19.8	21.7	26.3	15.8	21.0	39	0	16	18	83	86	0.088	0.098	3.67	0.76	9.4	8.5	7.9
Year	29.200	29.938	28.570	40.6	43.2	50.2	35.1	42.6	93	-10	34	36	77	78	0.230	0.258	30.54	1.74	6.3	5.6	6.5

MEMPHIS, TENN.

[φ=35° 9' N.; λ=90° 3' W.]

January	29.778	30.259	29.321	38.1	45.2	50.9	34.4	42.6	69	12	31	30	76	57	0.191	0.179	3.69	*1.97	4.9	3.9	5.1
February	29.778	30.093	29.346	33.4	41.9	48.2	30.4	39.3	65	9	27	28	78	60	0.158	0.165	4.37	2.45	5.4	5.1	5.7
March	29.723	29.932	29.490	54.2	66.9	71.2	52.6	61.9	86	34	42	44	65	48	0.282	0.320	1.14	0.59	3.5	3.5	3.6
April	29.567	29.875	29.261	54.6	63.8	68.5	51.6	60.0	83	32	46	45	73	54	0.325	0.321	6.95	4.58	6.1	5.1	5.9
May	29.628	29.911	29.301	61.9	69.3	74.0	58.2	66.1	86	49	53	53	73	58	0.419	0.416	3.02	1.24	5.5	6.0	6.1
June	29.566	29.794	29.319	68.8	77.0	81.7	65.9	73.8	80	59	63	64	82	65	0.583	0.598	4.13	1.36	5.7	5.9	5.8
July	29.560	29.721	29.366	74.3	81.3	85.9	72.0	79.0	92	62	70	70	88	71	0.740	0.750	2.59	0.93	6.5	6.1	6.4
August	29.595	29.730	29.480	73.1	81.6	87.3	70.5	78.9	94	60	67	68	81	65	0.663	0.700	1.26	0.55	4.8	4.9	5.4
September	29.657	29.843	29.457	69.5	79.4	85.8	67.8	76.6	89	60	64	65	82	63	0.600	0.633	1.21	0.76	3.8	3.0	3.3
October	29.666	29.956	29.282	44.4	54.1	59.1	41.5	50.3	74	29	36	36	72	53	0.229	0.231	1.04	0.80	4.6	3.1	4.2
December	29.772	30.234	29.299	36.5	43.7	47.8	33.8	40.8	64	23	29	30	76	59	0.172	0.174	3.76	1.41	5.6	4.3	5.9
Year	29.663	30.259	29.261	55.5	64.2	69.5	52.8	61.1	94	9	48	49	77	60	0.397	0.410	40.01	4.58	5.0	4.4	5.1

MERIDIAN, MISS.

[φ=32° 21' N.; λ=88° 40' W.]

January	29.791	30.230	29.237	40.6	51.4	59.2	37.3	48.2	71	18	35	37	79	60	0.217	0.243	2.84	1.27	5.3	3.8	5.0
February	29.768	30.108	29.420	40.0	49.4	56.2	36.9	46.6	71	19	26	40	86	72	0.226	0.271	5.62	1.41	7.1	5.0	6.0
March	29.726	29.896	29.471	51.3	67.1	75.5	48.7	62.1	89	28	46	48	85	52	0.333	0.355	0.86	0.80	3.7	3.1	3.4
April	29.594	29.847	29.347	54.3	67.4	74.0	50.2	62.1	86	32	49	49	82	53	0.368	0.364	2.26	1.95	4.8	5.4	5.3
May	29.630	29.842	29.372	63.7	74.3	79.9	57.5	68.7	89	44	57	55	80	54	0.490	0.453	3.26	2.57	5.4	6.0	5.4
June	29.558	29.734	29.351	69.7	78.2	85.0	65.1	75.0	92	55	65	66	87	69	0.630	0.650	6.77	2.01	5.7	6.2	5.8
July	29.601	29.740	29.433	73.7	79.1	87.0	70.1	78.6	92	65	70	72	80	78	0.745	0.771	7.34	1.75	6.5	7.1	6.8
August	29.592	29.733	29.496	73.6	81.2	88.5	69.9	79.7	94	63	70	71	87	72	0.723	0.752	3.37	1.65	3.3	4.8	4.9
September	29.654	29.817	29.517	66.8	80.4	88.8	65.7	77.2	94	51	64	65	86	63	0.618	0.627	1.88	0.28	2.8	4.5	4.0
October	29.653	30.145	29.349	57.6	66.7	76.7	54.5	65.6	85	29	54	56	89	69	0.464	0.454	2.80	1.54	3.7	3.6	4.2
November	29.673	29.901	29.338	45.3	54.7	63.0	42.3	52.6	77	31	41	44	85	68	0.274	0.310	2.81	1.09	5.2	3.2	5.4
December	29.782	30.199	29.327	40.0	47.0	54.8	36.1	45.4	73	23	34	36	80	68	0.215	0.233	4.60	1.36	5.5	5.8	5.9
Year	29.668	30.230	29.237	56.6	66.3	74.1	52.9	63.5	94	18	52	53	85	65	0.442	0.459	43.36	2.57	4.9	4.9	5.2

MILES CITY, MONT.

[φ=46° 25' N.; λ=105° 40' W.]

January	27.478	27.981	26.933	15.6	22.3	29.3	10.5	19.9	52	-21	13	17	88	80	0.066	0.106	0.94	0.40	4.1	4.6	4.5
February	27.549	27.493	26.683	5.2	16.5	23.9	1.7	12.8	49	-29	3	11	91	87	0.057	0.084	0.80	0.40	4.3	4.8	4.3
March	27.465	27.806	26.986	36.4	55.6	61.6	34.9	48.2	88	24	32	37	84	52	0.182	0.222	1.75	0.70	4.5	5.3	4.0
April	27.434	27.816	26.751	44.2	64.9	70.5	41.5	56.0	90	28	38	38	77	43	0.232	0.241	1.35	0.65	3.7	4.5	3.5
May	27.497	27.804	27.142	47.2	64.3	69.9	44.2	57.0	86	32	40	43	76	50	0.247	0.279	1.12	0.76	4.8	4.3	4.1
June	27.286	27.755	27.066	80.9	77.7	83.4	56.2	69.8	108	37	50	49	69	43	0.367	0.367	2.81	1.04	3.0	4.6	3.8
July	27.417	27.701	26.937	65.6	87.2	91.5	62.1	76.8	108	51	51	48	63	28	0.375	0.345	0.93	0.59	3.0	4.4	2.7
August	27.532	28.043	27.085	49.1	65.6	70.7	47.7	59.2	94	31	45	50	86	61	0.305	0.365	1.94	0.67	5.1	4.6	4.8
September	27.473	27.968	26.928	40.9	57.6	66.7	39.7	53.2	85	22	30	41	83	59	0.218	0.268	0.48	0.27	3.6	3.8	3.1
October	27.490	28.065	27.112	27.0	34.6	42.0	26.9	34.0	66	3	24	27	87	74	0.133	0.153	1.13	0.50	6.2	4.6	4.9
December	27.517	27.798	27.081	17.9	25.7	33.1	15.1	24.1	48	-4	14	20	84	78	0.084	0.112	0.41	0.15	3.4	3.5	4.0
Year	27.517	27.798	27.081	40.6	56.6	63.6	36.1	48.4	108	-29	13	17	85	78	0.149	0.193	14.93	1.04	4.1	4.6	4.0

* Estimated.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

MILWAUKEE, WIS.

[φ=43° 2' N.; λ=87° 54' W.]

Table for Milwaukee, Wis. with columns for Pressure, Temperature, and Moisture. Rows include months from January to December and a Year total.

MINNEAPOLIS, MINN.

[φ=44° 59' N.; λ=93° 18' W.]

Table for Minneapolis, Minn. with columns for various meteorological data. Rows include months from January to December and a Year total.

MOBILE, ALA.

[φ=30° 41' N.; λ=88° 02' W.]

Table for Mobile, Ala. with columns for various meteorological data. Rows include months from January to December and a Year total.

MODENA, UTAH.

[φ=37° 48' N.; λ=113° 54' W.]

Table for Modena, Utah. with columns for various meteorological data. Rows include months from January to December and a Year total.

MONTHLY AND ANNUAL SUMMARIES, 1910.

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ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

MARQUETTE, MICH.

[H=734 ft.; h₁=77 ft.; h₂=70 ft.; h₃=116 ft.]

Month.	Wind.													Number of days.																			
	By self-register.					Number of winds, 8 a. m. and 8 p. m.								Precipitation.	Snow.	Maximum temp.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.												
	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.	T. or more.	0.01 inch or more, melted.	Hail.	Fog.		
January.....	11.9	W.	46	NW.	1	1	2	4	3	3	11	12	10	11	0	3	10	18	13	8	18	13	0	0	26	0	31	0	0	0	0		
February.....	11.8	W.	38	SW.	1	0	2	4	0	6	7	12	17	18	0	6	10	12	13	11	17	13	0	0	10	0	21	0	0	0	0		
March.....	12.8	W.	46	SW.	2	2	2	5	4	5	9	13	14	11	0	5	21	5	7	2	9	4	0	0	6	0	0	0	0	0	0		
April.....	11.7	NW.	44	NW.	2	2	4	4	7	4	5	9	14	17	0	5	12	13	8	8	8	8	0	0	0	0	10	0	0	0	0		
May.....	11.3	W.	40	S.	0	0	0	0	0	13	7	4	6	6	0	7	14	10	10	7	7	2	2	1	0	0	0	0	0	0	0	0	
June.....	7.1	W.	23	W.	0	0	0	0	0	8	0	0	0	0	0	11	9	10	6	4	1	0	0	0	0	0	0	0	0	0	0	0	
July.....	9.3	W.	31	W.	0	0	2	2	2	8	0	0	0	0	0	7	17	7	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0
August.....	9.6	W.	35	SE.	0	0	1	1	4	7	6	11	4	17	0	5	17	9	12	8	8	0	0	0	0	0	0	0	0	0	0	0	0
September.....	10.7	SW.	42	SW.	1	1	4	4	5	13	5	11	11	7	0	8	10	12	11	7	7	0	0	0	0	0	0	0	0	0	0	0	0
October.....	11.9	NW.	44	S.	3	2	4	4	3	10	6	11	15	11	0	8	10	13	10	8	3	3	0	0	0	0	0	0	0	0	0	0	0
November.....	12.1	W.	34	NW.	3	0	1	3	3	4	6	6	24	15	0	1	3	26	23	15	0	22	21	0	0	0	0	0	0	0	0	0	0
December.....	12.3	SW.	44	SW.	1	0	1	0	0	9	3	3	16	23	0	1	11	19	25	20	28	25	0	0	0	0	0	0	0	0	0	0	0
Year.....	11.0	W.	46	SW.	12	28	26	58	70	82	99	251	116	0	67	144	154	150	106	109	90	1	6	85	5	158	19	8	0	0	0	0	

MEMPHIS, TENN.

[H=399 ft.; h₁=76 ft.; h₂=63 ft.; h₃=97 ft.]

January.....	10.2	NW.	54	SW.	3	3	7	5	6	12	7	6	16	0	14	4	13	5	5	2	2	0	1	2	0	13	0	0	0	0	0			
February.....	10.0	N.	38	NW.	0	0	15	8	5	8	10	3	6	0	10	5	13	8	7	3	3	3	0	1	2	0	16	2	0	0	0	0		
March.....	8.4	SW.	32	NW.	0	0	12	8	1	4	14	20	0	3	0	18	4	9	5	3	0	0	0	1	3	0	0	0	0	0	0	0		
April.....	10.2	SW.	32	SW.	3	3	4	6	6	15	10	7	10	1	10	6	14	11	9	2	2	2	0	0	0	0	0	0	0	0	0	0	0	
May.....	8.7	SW.	36	SW.	0	1	7	10	10	3	12	13	3	0	9	7	15	12	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
June.....	6.4	NE.	49	NW.	0	1	8	15	5	4	20	22	5	1	0	6	13	11	13	10	0	0	0	0	0	0	0	0	0	0	0	0	0	
July.....	8.2	NE.	32	NW.	0	0	0	0	0	0	22	1	0	0	0	6	11	14	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
August.....	6.0	NE.	33	SW.	0	0	9	11	13	8	12	4	1	4	0	8	14	9	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September.....	6.9	SW.	31	SW.	0	11	9	7	6	11	12	2	2	0	14	13	3	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
October.....	7.7	S.	72	SW.	1	12	12	4	5	13	6	5	5	0	18	7	6	8	6	1	0	1	0	1	0	1	0	1	1	4	0	0	0	
November.....	8.6	SW.	35	NW.	0	13	13	7	3	9	9	2	4	0	16	5	9	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
December.....	9.0	NW.	35	NW.	0	11	12	4	8	10	5	4	7	1	10	8	13	9	8	2	2	1	3	1	3	1	0	0	16	2	0	0	0	
Year.....	8.4	S.	72	SW.	8	108	116	68	66	149	119	38	64	2	139	97	129	98	80	10	9	3	10	5	19	47	56	0	0	0	0	0	0	

MERIDIAN, MISS.

[H=375 ft.; h₁=84 ft.; h₂=8 ft.; h₃=93 ft.]

January.....	6.4	SW.	30	NW.	0	8	7	3	6	7	14	3	11	3	12	9	10	7	6	1	0	0	0	0	0	0	12	1	0	0	0	0	0		
February.....	7.1	NE.	22	NW.	0	11	13	7	4	6	3	4	3	5	8	7	13	10	10	2	0	0	0	0	0	0	0	0	13	1	2	0	0		
March.....	4.0	N.	22	SW.	0	13	6	6	0	6	9	6	2	14	17	11	3	3	1	0	0	0	1	0	0	0	0	1	1	0	0	0	0		
April.....	6.4	NW.	27	SW.	0	10	2	1	2	8	9	9	13	6	9	12	9	5	4	1	0	0	0	1	0	0	0	1	4	0	0	0	0		
May.....	5.6	N.	27	NW.	0	12	4	4	5	11	10	4	9	3	8	17	6	10	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
June.....	4.0	SW.	30	SW.	0	5	10	0	4	7	18	3	9	4	7	16	7	14	14	0	0	0	0	0	0	0	0	5	0	0	0	0	0		
July.....	4.8	SW.	27	SW.	0	3	2	5	4	9	28	5	2	4	2	19	10	21	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
August.....	3.6	E.	30	SE.	0	2	16	13	4	1	5	3	8	5	10	16	5	9	7	0	0	0	0	0	0	0	0	15	0	0	0	0	0		
September.....	4.0	E.	20	SE.	0	7	9	10	5	6	8	2	2	11	13	15	2	6	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
October.....	4.6	NE.	25	S.	0	7	15	5	5	6	3	1	11	9	15	7	9	9	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
November.....	4.9	SW.	22	SW.	0	10	11	1	1	3	13	6	8	7	12	4	14	8	7	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
December.....	6.0	NW.	30	W.	0	5	9	8	1	7	9	2	14	7	10	7	14	11	10	1	0	0	1	0	0	0	0	0	13	1	0	0	0	0	
Year.....	5.1	SW.	30	NW.	0	93	104	68	41	77	129	48	92	78	123	140	102	113	96	5	0	0	8	0	40	47	70	0	0	0	0	0	0	0	

MILES CITY, MONT.

[H=2,371 ft.; h₁=26 ft.; h₂=32 ft.; h₃=48 ft.]

January.....	5.5	S.	35	W.	0	0	8	3	6	25	8	10	2	0	14	10	7	9	6	9	8	0	0	0	0	17	0	30	0	0	0	0	0	1
February.....	5.6	S.	38	W.	0	3	13	4	7	17	4	4	4	0	12	9	7	5	5	9	8	0	0	0	0	0	14	0	28	0	0	0	0	0
March.....	6.0	SW.	39	NW.	0	3	12	2	12	6	14	4	9	0	14	13	4	5	4	2	2	0	0	0	0	0	0	0	11	0	0	0	0	0
April.....	7.2	SE.	32	NW.	0	9	2	2	16	3	7	15	6	0	19	7	4	6	4	2	1	0	0	3	1	6	2	6	0	0	0	0	0	0
May.....	7.1	NE.	30	N.	0	5	17	8	8																									

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

MILWAUKEE, WIS.

[H=681 ft.; h₁=122 ft.; h₂=116 ft.; h_a=139 ft.]

Month.	Wind.													Number of days.														
	By self-register.				Number of winds, 8 a. m. and 8 p. m.									Precipitation.	Snow.	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.	T. or more, 0.01 inch or more, melted.	Hail.	Fog.	32° or below.	90° or above.	Thunderstorms.	Auroras.
January...	12.3	W.	55	SE.	2	4	5	2	3	5	10	16	17	0	9	8	14	11	6	15	11	0	2	22	0	31	0	0
February...	11.1	W.	44	E.	1	12	2	3	3	7	14	15	9	0	11	9	8	6	3	11	4	1	0	16	0	28	0	0
March...	10.7	W.	42	SW.	1	5	9	6	4	6	14	15	3	0	12	8	10	12	10	7	4	0	2	1	11	5	2	0
April...	11.6	NE.	41	SE.	1	7	14	6	4	6	9	8	2	0	10	8	10	12	10	7	4	0	2	1	0	5	3	0
May...	10.5	NE.	39	NE.	0	6	21	3	2	6	5	10	4	0	12	8	11	10	10	1	1	0	3	0	0	0	0	0
June...	7.9	NE.	31	W.	0	4	20	3	3	8	3	13	5	0	22	3	5	5	0	0	1	0	3	0	2	2	0	0
July...	9.6	W.	31	SE.	0	3	15	5	3	12	4	3	2	0	21	8	8	3	3	0	1	0	0	5	0	4	4	0
August...	9.1	W.	38	SE.	0	12	15	6	4	14	3	14	0	0	11	11	5	12	9	0	0	0	0	0	0	0	0	0
September...	10.4	NE.	30	SE.	0	16	10	3	3	14	10	10	0	0	15	10	10	9	0	0	0	0	0	0	0	0	0	0
October...	11.0	W.	35	SW.	0	4	4	3	2	9	12	16	9	0	8	8	7	4	4	2	0	0	1	0	0	0	3	1
November...	10.6	W.	42	SE.	1	10	1	2	1	2	6	17	18	0	6	8	16	9	8	8	10	0	6	0	0	25	1	0
December...	11.0	NW.	31	SW.	0	11	2	1	0	11	9	13	15	0	10	5	16	10	4	18	10	0	20	0	0	30	1	0
Year...	10.5	W.	55	SE.	6	76	120	35	49	100	92	165	93	0	164	89	112	99	67	66	32	3	8	66	8	133	26	6

MINNEAPOLIS, MINN.

[H=— ft.; h₁=102 ft.; h₂=92 ft.; h_a=208 ft.]

January...	11.3	S.	46	W.	1	2	2	0	3	7	6	6	5	0	7	13	11	8	5	14	8	0	3	26	0	31	0	0
February...	12.7	NW.	37	E.	0	1	3	1	3	3	3	4	2	11	5	0	14	7	6	2	12	6	0	1	23	0	28	0
March...	13.6	N.	54	NW.	2	1	3	1	3	7	2	11	5	0	20	7	4	2	1	4	4	0	2	1	0	15	0	1
April...	15.4	N.	52	N.	2	6	1	3	1	7	1	6.	5	0	14	6	10	7	5	4	3	0	1	0	1	8	2	0
May...	12.8	N.	41	W.	2	5	3	3	3	4	4	4	7	0	13	7	11	6	4	0	1	0	0	0	0	1	1	0
June...	9.5	S.	36	N.	0	4	2	2	2	1	5	5	7	0	19	3	8	5	5	0	0	0	0	0	12	0	4	0
July...	10.6	W.	36	W.	0	3	3	0	1	9	7	7	2	4	0	18	8	6	5	0	0	0	0	0	6	0	3	1
August...	10.2	S.	37	NW.	0	4	1	2	1	2	0	2	4	0	10	10	16	8	8	0	0	0	0	0	0	0	9	0
September...	10.4	SE.	30	W.	0	6	0	1	3	10	2	0	5	0	15	10	10	7	6	0	0	0	3	0	0	0	0	0
October...	12.9	E.	44	SE.	2	2	2	0	0	0	0	0	0	0	16	7	8	4	2	2	1	0	0	0	0	2	2	0
November...	12.1	NW.	37	SE.	0	3	0	2	2	4	3	2	4	12	0	9	5	16	8	6	9	7	0	13	0	29	0	0
December...	12.1	NW.	37	NW.	0	3	0	4	3	4	2	5	10	0	10	12	9	4	2	10	4	0	26	0	31	0	0	
Year...	12.1	S.	54	NW.	11	41	18	17	31	77	38	69	69	0	160	90	115	75	52	55	30	1	9	90	18	144	23	3

MOBILE, ALA.

[H=57 ft.; h₁=98 ft.; h₂=91 ft.; h_a=106 ft.]

January...	8.3	N.	34	NW.	0	13	6	6	9	13	5	2	8	0	15	11	5	5	0	0	0	1	0	0	3	0	0	0
February...	9.0	N.	32	W.	0	16	3	8	11	5	2	4	7	0	9	8	11	13	12	1	0	0	0	0	0	3	5	0
March...	6.5	SE.	24	S.	0	7	6	3	11	9	10	4	11	1	19	10	2	5	3	0	0	3	0	1	0	3	0	0
April...	9.1	SW.	31	SW.	0	9	1	1	9	11	13	6	9	1	16	11	3	2	2	0	0	1	0	0	0	2	0	0
May...	8.3	N.	32	W.	0	18	1	3	12	12	7	5	4	0	13	10	8	6	6	0	0	1	0	1	0	6	0	0
June...	8.7	SW.	35	NW.	0	10	6	2	4	11	15	3	9	0	12	14	4	13	12	0	0	0	0	5	0	14	0	0
July...	6.8	S.	26	SE.	0	8	5	1	4	24	15	2	3	0	0	24	3	7	17	13	0	0	0	0	0	14	0	0
August...	5.5	N.	24	N.	0	16	9	6	5	5	8	4	9	0	12	15	4	4	9	0	0	0	0	0	19	0	12	0
September...	5.7	N.	29	SE.	0	16	10	4	3	8	9	2	6	0	11	17	12	9	6	0	0	0	0	0	10	0	12	0
October...	7.8	N.	26	NW.	0	30	3	6	3	7	14	1	8	0	18	10	3	8	6	0	0	0	0	0	0	3	0	0
November...	7.5	N.	26	S.	0	25	0	0	3	7	12	0	7	1	17	9	4	6	6	0	2	0	2	0	0	0	0	0
December...	7.5	N.	33	SW.	0	13	9	8	7	7	3	3	12	0	12	7	12	8	6	0	0	2	0	0	4	0	0	
Year...	7.4	N.	35	NW.	0	131	64	48	83	119	103	36	93	3	154	146	65	104	86	1	0	10	0	41	10	73	0	0

MODENA, UTAH.

[H=5,479 ft.; h₁=10 ft.; h₂=2 ft.; h_a=43 ft.]

January...	8.7	W.	58	SW.	2	2	5	10	1	2	11	25	6	0	10	11	10	7	4	6	4	1	0	0	9	0	30	0
February...	10.0	W.	49	SW.	2	2	6	8	3	1	1	21	7	0	8	15	5	2	2	4	4	2	0	0	6	0	28	0
March...	9.8	W.	46	SW.	1	3	2	3	3	1	19	27	1	3	12	13	0	5	4	4	4	0	0	0	0	0	0	0
April...	11.5	W.	48	SW.	2	2	5	5	4	3	15	22	4	0	14	12	4	2	2	0	0	1	0	0	0	13	2	
May...	10.9	W.	46	SW.	4	11	6	6	4	2	11	18	3	1	16	12	3	2	2	0	0	0	0	0	0	2	5	
June...	13.8	SW.	48	SW.	2	3	2	3	2	0	23	24	1	2	21	3	1	0	0	0	0	0	0	0	0	0	0	
July...	11.8	W.	56	SW.	5	4	3	2	1	3	19	26	4	0	9	15	7	10	6	0	0	0	0	0	0	0	14	
August...	10.5	SW.	42	N.	1	0	2	1	5	3	29	22	2	1	11	17	3	3	3	0	0	0	0	0	0	0	11	
September...	10.6	W.	48	SW.	6	1	4	3	3	0	21	23	1	4	21	4	5	7	0	0	0	0	0	0	0	0	0	
October...	9.4	W.	48	SW.	2	2	8	7	6	3	14	21	1	0	17	8	9	5	5	0	0	0	0	0	0	13	2	
November...	9.0	W.	46	SW.	1	4	3	7	1	2	13	26	4	0	9	10	11	6	6	0	0	2	0	0	0	23	0	
December...	8.2	W.	38	W.	0	4	4	13	5	1	6	22	4	3	3	13	15	7	4	0	0	0	5	9	0	28	0	
Year...	10.4	W.	58	SW.	28	38	50																					

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

MONTGOMERY, ALA.
[φ=32° 23' N.; λ=86° 18' W.]

Month.	Pressure.			Temperature.							Moisture.										
	Extremes.		Monthly mean.	Mean.			Extremes.	Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudings.							
	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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
In.	In.	In.	°	°	°	°	°	°	°	%	%	In.	In.	In.	In.	hours.	°	°	hours.		
January.....	29.958	30.416	29.253	41.4	51.6	59.2	37.0	48.1	72	20	36	38	80	62	0.231	0.251	3.21	1.33	4.8	3.0	5.1
February.....	29.934	30.275	29.619	42.1	52.0	57.8	38.4	48.1	75	22	36	38	79	62	0.240	0.257	6.58	1.76	6.3	5.5	5.8
March.....	29.878	30.103	29.663	54.2	60.2	75.4	51.9	63.6	89	34	46	44	75	43	0.330	0.307	8.85	1.17	2.7	3.2	2.9
April.....	29.751	30.020	29.475	56.2	68.6	74.8	52.3	63.6	86	48	48	47	75	49	0.359	0.342	2.06	0.98	4.0	4.7	4.4
May.....	29.793	30.025	29.487	64.6	75.3	81.9	60.7	71.3	80	66	57	66	84	68	0.477	0.454	1.69	2.42	5.6	5.5	5.8
June.....	29.718	29.884	29.517	71.9	78.4	86.5	67.5	77.0	94	59	67	66	89	75	0.577	0.554	1.07	4.89	6.2	6.2	6.2
July.....	29.770	29.955	29.602	74.4	80.2	87.8	70.6	79.2	94	65	71	71	89	75	0.754	0.766	10.27	1.05	2.2	3.5	3.2
August.....	29.749	29.898	29.662	74.3	83.5	90.0	71.4	80.7	94	68	70	70	86	66	0.725	0.746	1.86	0.78	3.6	4.2	4.3
September.....	29.807	29.978	29.631	70.7	80.6	89.0	67.8	78.4	95	55	66	65	85	61	0.646	0.626	1.26	1.09	4.3	2.8	3.9
October.....	29.801	30.324	29.447	60.4	71.0	79.1	57.7	68.4	92	31	55	55	84	59	0.471	0.473	1.41	0.68	2.4	2.4	3.2
November.....	29.819	30.063	29.635	46.4	57.4	64.4	53.9	53.9	78	34	40	42	79	60	0.204	0.295	2.75	1.09	4.3	2.8	3.9
December.....	29.950	30.338	29.286	38.9	48.7	54.7	35.8	45.2	72	25	32	34	70	59	0.194	0.220	3.43	1.34	4.9	4.0	4.8
Year.....	29.827	30.416	29.253	58.0	68.0	75.0	54.6	64.8	85	20	52	52	81	60	0.446	0.448	43.78	4.89	4.3	4.1	4.5

MOORHEAD, MINN.

[φ=46° 52' N.; λ=96° 44' W.]

January.....	29.058	29.697	28.493	7.1	12.3	18.9	0.6	9.8	36	-25	6	11	92	93	0.060	0.076	0.52	0.22	5.4	4.9	5.2
February.....	29.135	29.508	28.457	-2.2	8.6	15.2	-5.8	4.7	38	-29	-4	7	90	91	0.041	0.066	0.52	0.34	4.1	4.0	3.6
March.....	28.947	29.479	28.199	31.8	45.1	52.6	29.2	40.9	80	14	29	38	80	76	0.106	0.232	0.36	0.23	4.1	3.8	3.5
April.....	28.899	29.363	28.302	36.3	53.5	60.9	32.2	46.0	82	16	33	38	88	61	0.192	0.242	1.92	1.00	3.4	3.9	3.6
May.....	29.032	29.487	28.549	43.3	59.3	65.4	37.5	51.4	81	24	38	39	81	49	0.232	0.249	0.92	0.52	4.0	4.2	3.2
June.....	28.964	29.217	28.620	61.2	77.8	82.8	55.4	69.1	98	32	54	56	79	49	0.430	0.473	0.83	0.44	3.1	1.4	1.9
July.....	28.909	29.190	28.462	61.7	80.6	86.0	56.8	71.4	98	48	55	57	79	46	0.441	0.476	0.83	0.44	3.1	1.4	1.9
August.....	28.969	29.358	28.621	54.6	71.9	79.2	51.7	65.4	92	36	50	54	85	55	0.370	0.426	1.39	1.10	3.3	5.1	4.3
September.....	29.015	29.447	28.526	47.8	61.7	70.8	44.6	57.7	83	27	45	49	91	65	0.317	0.353	1.75	0.60	4.1	4.7	4.5
October.....	28.926	29.350	28.276	39.5	52.5	63.6	37.2	50.4	90	21	36	39	86	63	0.217	0.247	0.55	0.38	3.7	3.7	3.9
November.....	29.047	29.571	28.522	20.6	35.0	41.0	17.1	24.0	44	2	19	22	93	90	0.102	0.120	0.49	0.26	6.5	5.8	6.6
December.....	29.067	29.608	28.637	10.0	13.5	21.4	2.2	11.8	40	-18	8	12	92	92	0.070	0.078	0.42	1.14	6.1	4.7	6.4
Year.....	28.997	29.697	28.199	34.3	46.8	54.0	29.9	41.9	98	-29	31	35	87	70	0.221	0.253	10.50	1.10	4.3	4.0	4.1

MOUNT TAMALPAIS, CAL.

[φ=37° 56' N.; λ=122° 35' W.]

January.....	27.626	27.915	27.118	37.8	40.2	44.3	35.1	39.7	62	27	33	35	84	84	0.190	0.210	2.96	0.82	3.4	4.1	6.6
February.....	27.686	27.804	27.385	39.7	44.1	47.4	37.4	42.4	61	26	31	36	74	78	0.182	0.218	4.25	1.03	3.4	6.4	5.5
March.....	27.583	27.835	27.235	48.6	52.8	56.2	45.5	50.8	70	34	41	46	80	79	0.262	0.311	3.35	0.94	2.2	4.2	5.4
April.....	27.599	27.750	27.379	50.9	56.5	60.8	47.1	54.0	83	37	41	47	73	73	0.260	0.324	0.68	0.40	2.2	3.6	4.1
May.....	27.581	27.678	27.389	54.4	62.6	66.9	51.1	59.0	92	37	43	50	72	66	0.284	0.362	0.23	0.20	2.2	1.6	3.6
June.....	27.516	27.677	27.329	56.1	61.8	67.7	50.3	59.0	88	40	42	46	64	60	0.275	0.318	0.03	0.02	5.9	1.8	1.4
July.....	27.504	27.630	27.306	66.4	71.9	76.9	61.2	69.0	93	42	40	46	46	45	0.263	0.323	0	0	1.1	1.4	1.9
August.....	27.523	27.608	27.371	66.1	73.3	78.9	61.8	70.4	90	43	34	39	35	32	0.202	0.245	0	0	1.2	3	3
September.....	27.518	27.674	27.328	61.1	67.8	72.9	57.1	65.0	85	45	37	40	45	41	0.230	0.261	0.17	0.17	7.4	1.2	1.2
October.....	27.531	27.756	27.289	58.6	61.9	67.6	53.7	60.6	87	40	39	41	55	54	0.244	0.262	0.91	0.58	1.2	2.3	3.7
November.....	27.604	27.763	27.332	47.6	50.5	55.0	43.3	49.2	69	35	41	42	80	75	0.260	0.272	0.63	0.30	3.4	3.9	6.6
December.....	27.664	27.800	27.469	46.7	48.2	52.2	43.2	47.7	63	34	38	39	75	73	0.237	0.243	2.05	1.18	3.1	4.6	6.0
Year.....	27.582	27.915	27.118	52.8	57.6	62.2	48.9	55.6	93	27	38	42	65	63	0.241	0.279	15.26	1.18	2.1	2.8	3.9

MOUNT WEATHER, VA.

[φ=39° 4' N.; λ=77° 53' W.]

January.....	28.199	28.736	27.432	27.5	29.1	36.4	23.1	29.8	61	10	22	23	79	79	0.124	0.129	4.53	1.10	6.2	5.6	6.6
February.....	28.327	28.673	27.703	26.2	30.0	37.0	20.0	29.0	58	1	18	23	73	74	0.113	0.136	2.45	0.83	4.6	4.1	5.4
March.....	28.226	28.509	27.740	42.9	49.8	57.3	38.6	43.0	81	19	34	40	71	70	0.207	0.258	4.43	0.22	2.4	2.4	3.5
April.....	28.064	28.437	27.827	47.6	53.8	62.2	42.2	52.2	86	30	38	42	71	69	0.236	0.279	3.64	1.47	4.9	5.3	5.5
May.....	28.180	28.642	27.749	53.6	57.4	65.0	48.0	56.5	80	35	45	47	74	70	0.313	0.344	2.40	0.69	3.1	4.3	5.0
June.....	28.150	28.400	27.734	60.5	65.5	71.2	56.9	64.0	86	40	55	57	84	76	0.454	0.490	5.90	1.12	4.2	6.0	5.6
July.....	28.167	28.370	27.935	68.8	72.5	79.8	65.0	72.4	88	56	62	60	79	67	0.555	0.532	3.28	0.91	2.9	5.0	4.5
August.....	28.269	28.463	27.987	64.6	68.0	75.7	61.3	68.5	83	52	59	60	84	77	0.506	0.533	1.91	0.58	3.8	5.2	5.4
September.....	28.289	28.477	28.080	61.8	66.1	73.8	58.5	66.2	88	45	57	57	85	73	0.476	0.490	1.22	0.36	3.8	4.2	5.0
October.....	28.216	28.542	27.850	51.6	56.0	64.2	47.5	55.8	83	25	44	47	75	73	0.308	0.345	3.73	1.33	3.0	1.7	3.7
November.....	28.016	28.430	27.710	34.5	35.1	41.7	30.3	36.0	62	22	25	29	69	78	0.135	0.162	0.98	0.69	4.8	5.4	6.4
December.....	28.170	28.724	27.550	23.1	25.9	31.6	19.8	25.7	57	9	18	21	79	80	0.099	0.111	3.67	2.22	5.2	4.6	5.4
Year.....	28.183	28.736	27.432	46.9	50.8	58.0	42.7	50.3	88	1	40	42	77	74	0.204	0.316	34.09	2.22	4.1	4.5	5.2

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

NANTUCKET, MASS.
[φ=41° 17' N.; λ=70° 06' W.]

Month.	Pressure.			Temperature.						Moisture.											
	Monthly mean.	Extremes.		Mean.			Extremes.			Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.					
		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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
January.....	In. 30.063	In. 30.735	In. 29.228	° 33.4	° 34.0	° 39.8	° 29.2	° 34.5	° 50	° 10	° 30	° 30	% 86	% 85	In. 0.175	In. 0.174	In. 6.90	In. 1.40	6.6	5.4	6.9
February.....	30.044	30.749	29.360	31.4	31.6	38.4	25.9	32.2	51	3	26	25	80	75	.156	.144	3.41	1.83	6.0	5.2	6.1
March.....	30.048	30.557	29.408	39.0	37.9	45.1	33.3	39.2	68	24	33	33	79	83	.139	.122	2.74	1.21	5.1	4.0	5.0
April.....	29.946	30.384	29.559	47.3	45.8	54.0	41.3	47.5	85	35	41	41	79	84	.264	.262	2.95	1.63	4.8	4.9	5.5
May.....	29.949	30.372	29.442	54.2	51.1	58.8	47.6	53.2	68	37	47	47	78	88	.326	.332	3.36	1.25	5.1	4.6	5.7
June.....	29.902	30.227	29.500	61.2	59.0	67.5	55.1	61.3	82	46	56	55	84	89	.445	.447	6.06	2.20	5.4	4.8	6.0
July.....	29.882	30.151	29.618	70.0	65.7	76.4	62.5	69.4	83	58	64	62	83	90	.601	.571	4.18	2.40	4.2	3.0	3.8
August.....	30.066	30.353	29.680	68.2	64.3	72.8	60.8	66.8	79	51	62	61	81	91	.558	.546	2.67	1.39	4.4	5.5	4.9
September.....	30.066	30.336	29.789	62.9	60.3	67.8	56.7	62.2	80	49	58	57	85	89	.492	.472	.61	.29	5.7	4.4	5.3
October.....	29.971	30.471	29.427	55.2	54.9	61.2	50.3	55.8	73	36	49	49	82	82	.366	.367	4.72	3.86	5.9	2.8	5.2
November.....	29.728	30.348	29.338	42.3	42.1	47.3	38.7	43.0	59	30	38	38	86	85	.238	.232	3.46	1.15	7.0	5.7	6.5
December.....	29.975	30.739	29.334	29.4	31.3	35.8	24.7	30.8	49	9	26	26	85	80	.146	.148	4.33	1.69	5.8	5.7	6.3
Year.....	29.970	30.749	29.228	48.5	48.2	55.5	43.9	49.7	83	3	44	44	82	85	.330	.324	45.39	3.86	5.5	4.7	5.6

NARRAGANSETT PIER, R. I.
[φ=41° 19' N.; λ=71° 17' W.]

January.....						39.4	24.0	31.7	48	-	1						5.62	1.84			
February.....						39.4	22.1	30.8	55	-	4						3.91	1.09			
March.....						49.5	31.0	40.2	82	11							1.96	.86			
April.....						50.9	40.3	48.6	72	28							1.81	.68			
May.....						61.5	46.8	54.2	72	35							3.32	.89			
June.....						70.9	55.1	63.0	88	42							3.64	1.07			
July.....						78.9	62.1	70.5	91	51							2.72	1.08			
August.....						74.5	60.1	67.3	80	47							2.58	.76			
September.....						72.3	54.8	63.0	85	41							2.28	1.17			
October.....						66.4	45.0	56.7	78	24							2.08	.76			
November.....						47.6	33.0	40.3	60	19							4.45	2.19			
December.....						36.2	18.6	27.4	51	1							3.37	1.17			
Year.....						57.8	41.1	49.4	91	-	4						37.74	2.19			

NASHVILLE, TENN.
[φ=36° 10' N.; λ=86° 47' W.]

January.....	29.592	30.142	29.081	35.7	41.0	48.8	29.9	36.4	69	7	31	30	83	64	0.188	0.179	3.45	1.84	6.4	4.5	6.2
February.....	29.610	29.870	29.260	33.1	40.8	47.3	27.8	37.6	62	6	26	28	82	62	.189	.168	4.87	2.24	6.0	5.1	5.5
March.....	29.548	29.729	29.350	49.5	64.6	71.3	47.1	59.2	88	26	42	41	77	45	.285	.275	1.85	1.54	3.2	3.3	3.9
April.....	29.382	29.696	29.066	51.9	62.2	68.4	48.1	58.2	85	32	46	44	80	56	.322	.310	6.10	3.31	5.7	6.1	6.3
May.....	29.465	29.789	29.168	59.4	67.7	74.0	55.6	64.8	86	42	51	50	74	58	.382	.383	5.81	1.43	5.4	5.2	5.2
June.....	29.407	29.592	29.130	67.1	75.4	81.7	62.7	72.2	90	51	60	62	79	65	.537	.571	6.61	1.59	4.0	6.4	4.7
July.....	29.404	29.594	29.205	73.8	79.5	85.6	70.3	78.0	91	64	68	70	84	73	.699	.730	4.45	.76	5.7	5.5	4.5
August.....	29.450	29.582	29.347	70.2	80.4	86.7	66.9	76.8	94	59	66	65	86	61	.637	.630	1.73	.81	3.2	5.0	4.8
September.....	29.505	29.684	29.335	67.6	78.2	85.6	65.4	75.5	93	55	62	63	84	62	.576	.561	.74	.24	4.1	3.5	4.9
October.....	29.498	29.940	29.217	54.7	66.1	74.5	51.6	63.0	91	27	30	30	86	59	.396	.396	3.20	2.41	2.8	2.8	3.4
November.....	29.481	29.738	29.115	39.4	50.0	56.9	34.9	45.9	70	26	32	33	75	53	.192	.196	1.17	.86	4.2	3.1	4.4
December.....	29.591	30.129	28.992	31.4	38.7	44.5	27.6	36.0	65	14	26	30	81	71	.149	.174	3.92	1.74	5.3	4.1	6.2
Year.....	29.494	30.142	28.992	52.8	62.0	68.8	49.0	58.9	94	6	47	47	81	61	.378	.384	42.90	3.31	4.7	4.6	5.1

NEW HAVEN, CONN.
[φ=41° 18' N.; λ=72° 56' W.]

January.....	29.973	30.670	29.146	27.5	31.5	37.9	23.3	30.6	51	-	3	20	72	66	0.118	0.129	7.28	1.87	5.6	5.4	6.2
February.....	29.978	30.651	29.394	26.1	30.0	36.7	21.6	29.2	55	-	4	17	19	66	.108	.122	4.37	1.46	4.7	4.9	5.1
March.....	29.964	30.407	29.359	38.0	42.1	50.9	32.8	41.8	81	19	23	30	67	63	.158	.174	1.16	2.17	4.0	3.8	4.6
April.....	29.832	30.210	29.468	48.9	52.5	60.7	42.3	51.5	73	34	39	40	71	63	.250	.200	3.35	3.14	4.9	4.7	5.2
May.....	29.845	30.281	29.347	55.3	58.7	66.1	49.8	58.0	77	42	45	46	70	65	.311	.318	4.34	1.15	5.5	5.4	5.4
June.....	29.804	30.127	29.374	64.0	61.8	74.9	57.8	66.4	90	43	54	56	71	60	.427	.459	4.03	1.26	5.4	5.2	5.6
July.....	29.783	30.065	29.533	72.7	74.6	83.3	64.9	74.1	92	56	62	63	80	67	.555	.574	2.26	1.04	3.0	3.3	3.7
August.....	29.855	29.235	29.511	67.4	70.0	77.7	60.8	69.2	84	60	59	60	75	73	.512	.536	3.21	1.54	4.6	4.3	4.8
September.....	29.973	30.200	29.686	61.6	65.1	73.0	56.0	64.5	83	43	55	57	79	76	.460	.478	1.83	.57	5.0	3.1	4.7
October.....	29.888	30.322	29.349	52.0	56.2	64.7	47.0	55.8	80	28	43	43	73	64	.305	.307	1.15	.51	4.9	2.4	4.1
November.....	29.688	30.249	29.330	36.9	40.7	47.0	34.4	40.7	63	29	30	31	74	68	.170	.180	4.86	2.06	5.0	4.1	3.4
December.....	29.906	30.623	29.378	23.3	27.9	35.9	18.9	26.4	50	5	14	15	66	63	.084	.101	2.80	1.07	4.2	5.2	4.9
Year.....	29.881	30.670	29.146	47.8	51.3	58.9	42.5	50.7	92	-	4	39	40	71	.288	.303	39.84	2.14	4.7	4.3	5.0

MONTHLY AND ANNUAL SUMMARIES, 1910.

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ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

MONTGOMERY, ALA.

[H=223 ft.; h₁=100 ft.; h₂=71 ft.; h₃=112 ft.]

Month.	Wind.											Number of days.																		
	By self-register.				Number of winds, 8 a. m. and 8 p. m.							Precipitation.	Snow.	Maximum temp.	Electricity.															
	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.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	T. or more.	0.01 inch or more melted.	Hail.	Fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	6.9	N.	36	NW.	0	13	2	5	9	11	9	3	10	0	10	11	10	6	6	1	0	0	0	2	0	0	10	3	0	0
February	7.1	SE.	28	E.	0	7	6	7	12	6	3	7	8	0	10	5	13	12	10	1	1	1	0	0	0	0	8	4	0	0
March	4.5	SE.	28	NW.	0	8	7	7	4	11	6	8	8	0	20	5	6	3	3	0	0	0	0	0	0	0	3	3	0	0
April	6.7	W.	34	W.	0	7	0	2	4	4	8	11	15	12	1	13	9	8	5	5	1	0	1	0	0	0	4	4	0	0
May	7.0	SW.	34	SW.	0	12	5	3	3	11	16	4	8	0	0	9	9	8	8	0	0	0	0	0	0	2	0	5	0	0
June	5.5	S.	38	SW.	0	8	2	5	11	15	8	6	5	0	0	15	8	13	11	6	0	0	0	0	0	6	0	12	0	0
July	5.8	SW.	35	SW.	0	1	3	3	3	13	23	2	3	0	0	19	19	15	13	0	0	0	0	0	0	0	16	0	0	0
August	5.1	NE.	23	S.	0	5	19	10	9	5	5	6	1	0	15	11	6	4	4	0	0	0	0	0	0	19	0	8	0	0
September	5.1	E.	24	SE.	0	4	12	22	6	6	6	4	4	0	0	20	8	2	2	3	3	3	3	3	0	11	0	8	0	0
October	6.3	NE.	29	N.	0	10	15	8	9	6	6	3	3	0	0	20	4	7	7	0	0	0	0	0	0	2	2	2	0	0
November	5.7	NW.	31	NW.	0	13	6	7	8	8	5	3	3	0	15	14	13	6	6	0	0	0	0	0	0	2	2	2	0	0
December	6.9	NW.	30	W.	0	6	7	7	6	6	5	3	3	0	5	7	6	6	6	0	0	0	0	2	0	0	12	1	0	0
Year	6.0	NW.	38	SW.	0	94	84	78	90	93	102	74	105	10	163	108	94	93	75	4	0	1	5	0	50	32	68	0	0	0

MOORHEAD, MINN.

[H=940 ft.; h₁=8 ft.; h₂=3 ft.; h₃=57 ft.]

January	8.3	NW.	31	NW.	0	6	3	1	8	15	7	3	19	0	11	10	10	7	4	13	7	0	0	26	0	31	0	0	0	0
February	9.5	NW.	29	N.	0	8	4	2	5	11	9	4	13	0	16	9	3	7	3	3	7	0	0	25	0	0	0	0	0	0
March	9.9	NW.	42	NW.	1	8	6	2	5	13	7	6	15	0	19	8	4	3	2	2	2	0	0	0	0	0	21	2	3	0
April	11.7	NW.	36	NW.	0	7	5	4	15	6	3	17	0	17	6	7	6	6	5	4	4	4	0	0	0	1	15	2	3	0
May	10.5	NW.	39	S.	0	13	3	2	10	10	2	6	16	0	20	5	6	7	6	0	0	0	0	0	0	0	8	5	0	0
June	8.1	S.	27	SE.	0	2	5	2	8	28	2	2	6	0	20	7	3	8	6	6	0	0	0	0	13	1	4	0	0	
July	7.2	NW.	28	NW.	0	6	4	3	11	9	5	2	22	0	24	5	2	6	4	0	0	0	0	0	0	10	0	4	0	0
August	7.5	NW.	35	SE.	0	7	7	5	7	11	7	3	15	0	16	8	7	6	5	0	0	1	0	0	2	0	3	1	0	
September	7.9	SE.	38	NW.	0	12	3	1	12	11	10	4	7	0	12	11	7	6	5	0	0	0	0	0	0	2	2	0	0	
October	9.9	NW.	34	S.	0	6	2	1	12	14	3	6	18	0	13	11	7	6	3	1	1	0	0	0	0	11	0	0	0	0
November	8.3	NW.	38	SE.	0	11	2	2	8	4	4	6	23	0	6	9	15	4	4	0	0	0	18	0	0	30	0	0	0	0
December	8.7	NW.	27	NW.	0	14	4	0	8	8	6	4	18	0	9	5	17	8	5	10	8	0	25	0	31	0	0	0	0	
Year	9.0	NW.	42	NW.	1	100	48	25	109	140	70	49	189	0	183	94	88	74	48	44	32	1	0	99	26	178	22	7	0	

MOUNT TAMALPAIS, CAL.

[H=2,375 ft.; h₁=11 ft.; h₂=5 ft.; h₃=18 ft.]

January	16.3	SE.	70	NW.	9	7	9	4	10	5	13	5	8	1	10	2	19	16	11	5	3	21	0	0	9	0	0	0	0	0
February	19.1	NW.	70	NW.	14	7	5	5	5	0	12	3	19	0	5	13	10	14	10	0	0	16	0	0	0	5	0	0	0	0
March	16.7	NW.	66	NW.	14	12	6	1	11	2	11	5	14	0	11	7	13	12	8	0	0	14	0	0	0	0	0	1	0	0
April	17.1	NW.	72	NW.	15	8	3	2	3	1	11	8	24	0	15	7	18	12	8	0	0	13	0	0	0	0	0	0	0	0
May	16.5	NW.	68	NW.	16	5	5	1	0	3	10	35	0	15	12	4	3	2	0	0	0	10	0	2	0	0	0	0	0	0
June	19.0	NW.	92	NW.	21	7	2	1	0	3	4	43	0	22	7	1	2	0	0	0	0	5	0	0	0	0	0	0	0	0
July	12.0	NW.	64	NW.	6	6	1	1	2	1	14	10	27	0	27	3	1	0	0	0	0	3	0	3	0	0	0	0	0	0
August	14.0	NW.	48	NW.	8	4	4	0	2	2	16	7	27	0	30	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0
September	12.7	NW.	51	NW.	10	6	2	0	1	0	11	4	35	1	25	4	1	2	1	0	0	4	0	0	0	0	0	0	0	0
October	17.0	NW.	72	NW.	10	8	14	2	1	2	10	7	17	1	17	6	8	3	3	0	0	8	0	0	0	0	0	0	0	0
November	14.6	NW.	65	NW.	9	5	5	4	6	3	14	6	16	1	6	10	14	7	5	0	0	15	0	0	0	0	0	0	0	0
December	18.4	N.	60	NW.	10	11	15	7	4	2	8	4	11	0	10	6	15	6	6	0	0	10	0	0	0	0	0	0	0	0
Year	16.1	NW.	92	NW.	142	86	71	28	46	18	128	73	276	4	193	78	94	71	50	5	3	121	0	5	14	1	0	0	0	

MOUNT WEATHER, VA.

[H=1,725 ft.; h₁=10 ft.; h₂=3 ft.; h₃=75 ft.]

January	16.6	NW.	76	NW.	9	2	1	1	10	9	10	6	23	0	9	5	17	14	13	13	10	0	11	12	0	29	0	0	0	0
February	20.1	NW.	62	NW.	15	3	1	4	6	3	12	5	22	0	12	5	11	11	8	6	3	0	6	12	0	23	1	1	0	0
March	16.2	NW.	60	NW.	6	3	2	4	10	9	2	12	20	0	19	9	3	5	2	3	1	0	3	3	1	0	10	4	0	0
April	16.5	NW.	58	W.	7	0	1	5	15	7	5	11	16	0	9	8	13	11	10	0	0	0	8	0	0	2	5	0	0	0
May	16.2	NW.	52	W.	6	1	0	1	12	8	2	3	35	0	10	13	8	14	10	1	1	10	0	0	0	0	8	7	0	0
June	13.3	NW.	50	W.	5	0	1	2	15	3	5	4	30	0	12	15	13	16	13	0	0	0	0	0	0	0	0	9	0	0
July	12.5	W.	42	SW.	1	0	2	4	9	5	8	19	15	0	13	11	7	12	8	0	0	0	12	0	0	0	0	5	0	0
August	12.1	SE.	36	NW.	0	3	2	3	15	6	9	11	12	0	10	13	7	10	7	0	0	0	8	0	0	0	0	4	0	0
September	12.3	NW.	45	NW.	1	7	2	4	10	9	2	18	26	0	16	8	7	8	8											

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

NANTUCKET, MASS.

[H=12 ft.; h₁=14 ft.; h₂=4 ft.; h₃=80 ft.]

Month.	Wind.													Number of days.															
	By self-register.				Number of winds, 8 a. m. and 8 p. m.									Partly cloudy.	Cloudy.	Precipitation.		Snow.		Maximum temp. 32° or below.	Minimum temperature 90° or above.	Thunderstorms.	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.	0.01 inch and over.	0.04 inch and over.					T. or more.	1/2 inch or more, melted.	Hail.	Fog.	32° or below.	90° or above.
January	18.1	W.	66	NE.	9	6	6	4	3	12	7	15	9	0	10	4	17	17	11	7	5	0	4	3	0	20	1	0	
February	19.7	W.	53	SW.	9	7	3	4	2	8	4	14	13	8	0	8	9	11	11	10	8	3	0	6	7	0	21	3	0
March	15.0	SW.	47	SW.	4	4	4	4	3	6	16	11	6	0	15	8	8	11	11	8	3	2	0	0	0	19	2	1	
April	15.1	SW.	42	S.	1	1	3	8	5	12	10	9	6	7	7	15	8	14	11	0	0	0	0	9	0	0	2	2	
May	15.1	SW.	36	SW.	0	0	0	12	3	2	20	6	5	0	12	8	11	14	11	0	0	1	15	0	0	0	0	0	
June	14.6	SW.	55	NE.	1	1	1	9	0	0	23	14	2	0	8	13	9	13	11	0	0	11	0	0	0	4	4	0	
July	13.3	SW.	41	SW.	1	1	1	12	2	2	2	3	3	1	0	14	16	1	7	5	0	16	0	0	0	0	5	0	
August	12.9	SW.	36	SW.	0	0	0	10	7	7	11	17	3	2	15	8	10	9	4	0	0	4	0	0	0	3	3	0	
September	13.4	NE.	43	NE.	0	0	0	10	4	4	10	14	3	4	11	11	9	10	9	4	0	0	0	0	0	1	2	0	
October	17.8	SW.	54	SW.	3	3	3	4	4	4	4	12	16	20	3	15	12	14	9	2	0	0	0	0	0	0	1	0	
November	16.1	W.	54	NE.	3	3	3	4	4	4	4	16	20	0	3	15	12	14	9	2	0	0	0	0	0	0	1	0	
December	16.1	W.	45	NE.	4	4	4	0	0	0	6	4	19	21	0	6	13	12	12	13	8	0	1	6	0	28	1	0	
Year..	15.6	SW.	66	NE.	39	63	101	43	58	84	166	119	96	0	119	131	115	146	105	33	18	1	83	16	0	89	30	2	

NARRAGANSETT PIER, R. I.

[H=—ft.; h₁=9 ft.; h₂=3 ft.; h₃=—ft.]

January	SW.	1	4	1	2	3	15	3	2	0	12	5	14	15	14	7	5	1	0	6	0	27	0	0
February	NW.	0	4	1	2	4	5	5	0	0	16	5	7	8	8	4	1	0	1	5	0	24	1	0
March	SW.	2	4	0	1	4	14	6	0	0	19	7	5	8	6	2	1	0	2	0	0	17	2	0
April	NE.	1	1	2	2	7	7	3	0	0	17	4	9	9	8	0	0	0	5	0	0	2	0	0
May	SW.	3	3	3	3	5	6	11	0	0	12	13	6	13	12	0	0	0	0	0	0	2	0	0
June	SW.	0	0	0	0	0	16	1	0	0	19	6	5	10	9	0	0	0	3	0	0	0	3	0
July	SW.	3	3	1	4	9	12	2	1	2	27	3	1	6	6	0	0	0	3	0	2	0	3	0
August	S.	0	5	3	5	9	7	7	1	1	17	8	6	6	10	11	8	7	0	0	0	4	1	0
September	S.	1	4	3	6	9	9	8	0	0	15	6	6	4	12	8	0	0	0	0	0	4	2	0
October	W.	1	3	1	2	2	10	3	0	0	22	4	4	12	8	0	0	0	0	0	0	15	1	0
November	W.	1	3	1	2	2	4	11	0	0	21	3	6	8	7	3	0	0	0	0	0	4	2	0
December	W.	4	0	2	2	4	3	6	0	0	16	11	4	9	8	10	3	0	0	8	0	28	0	0
Year..	SW.	17	44	20	38	58	108	54	26	0	216	76	73	119	101	26	10	1	26	19	2	117	18	0

NASHVILLE, TENN.

[H=546 ft.; h₁=168 ft.; h₂=161 ft.; h₃=191 ft.]

January	11.1	W.	40	NW.	1	7	5	5	6	10	8	11	10	0	11	5	15	9	7	3	2	0	2	0	18	0	0
February	11.9	NW.	40	SE.	2	6	8	2	8	10	4	8	10	0	10	6	12	11	8	3	4	0	2	0	18	1	0
March	7.8	SW.	40	SW.	1	10	6	3	8	6	11	8	8	2	17	6	8	7	4	0	0	1	0	0	3	6	0
April	10.5	SW.	47	NW.	2	4	5	6	7	9	11	10	7	1	7	8	15	14	12	2	2	1	0	0	0	1	7
May	9.9	W.	44	NW.	1	5	10	7	6	9	6	13	6	0	12	7	12	14	14	0	0	0	0	0	0	10	0
June	7.5	NE.	60	E.	2	7	13	4	10	4	5	13	4	0	13	6	11	15	14	0	0	0	0	0	0	13	0
July	7.9	S.	42	N.	1	4	4	1	12	16	14	11	0	0	10	10	11	16	15	0	0	0	2	0	18	0	
August	8.0	NE.	49	SW.	1	9	14	7	11	2	5	6	3	0	12	10	9	8	5	0	0	1	0	6	0	7	
September	8.9	S.	57	W.	0	11	7	8	7	13	6	5	3	0	10	12	8	8	6	0	0	0	0	6	0	8	
October	8.6	NW.	35	NW.	0	3	3	3	3	5	7	5	5	2	10	15	6	9	9	1	0	0	1	0	1	2	
November	8.7	W.	38	NW.	0	4	6	7	7	8	6	13	10	1	7	10	14	7	5	6	1	0	4	3	0	21	
December	9.0	W.	38	NW.	0	4	6	7	7	8	6	13	10	1	7	10	14	7	5	6	1	0	4	3	0	21	
Year..	8.8	W.	60	E.	11	83	90	63	96	99	87	119	86	7	143	92	130	121	101	16	6	3	14	7	15	74	75

NEW HAVEN, CONN.

[H=106 ft.; h₁=117 ft.; h₂=111 ft.; h₃=155 ft.]

January	10.4	N.	45	SE.	2	13	6	2	7	7	8	9	10	0	8	8	15	16	14	8	6	0	0	6	0	26	0
February	10.8	NW.	36	W.	0	10	4	4	4	3	12	7	14	0	10	10	8	10	10	6	7	5	0	0	7	0	24
March	8.9	S.	31	W.	0	9	4	7	9	8	5	11	10	0	11	12	8	7	6	2	1	0	0	0	0	13	
April	9.8	SE.	35	NW.	0	5	7	9	12	4	6	6	11	0	12	9	9	12	8	1	1	0	0	0	0	0	
May	8.7	SE.	25	NW.	0	8	8	2	11	10	4	7	12	0	10	10	11	14	10	0	1	0	0	0	0	5	
June	8.0	S.	27	N.	0	6	9	2	2	10	13	11	11	0	9	14	7	11	8	0	0	0	0	0	8		
July	7.5	S.	30	SW.	0	11	5	0	7	19	5	7	8	0	15	14	2	4	4	0	0	0	0	0	4		
August	8.1	S.	24	N.	0	13	10	5	6	14	6	3	4	0	11	13	7	12	8	7	0	0	0	0	4		
September	7.6	N.	24	SE.	0	18	5	6	6	11	3	2	9	0	12	12	6	6	7	0	0	0	0	0	0		
October	8.8	NW.	37	NW.	0	11	8	1	3	9	10	7	12	0	14	12	9	7	6	0	0	0	0	0	2		
November	9.0	W.	41	N.	0	10	3	0	4	3	9	13	10	0	10	12	8	10	7	0	0	0	0	0	0		
December	9.3	NW.	36	N.	0	4	8	1	3	2	4	9	13	20	0	13	7	11	10	6	10	0	0	0	11		
Year..	9.1	NW.	45	SE.	3	118	82	34	72	102	92	97	133	0	135	133	97	122	94	35	22	1	1	27	7	104	

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

NEW ORLEANS, LA.
[$\phi=29^{\circ} 58' N.$; $\lambda=90^{\circ} 4' W.$]

Month.	Pressure.			Temperature.						Moisture.											
	Monthly mean.	Extremes.		Mean.			Extremes.			Dew point.	Relative humidity.		Vapor pressure.	Precipitation.	Cloudiness.						
		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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Paylight.
January.....	30.144	30.522	29.029	48.7	56.6	64.5	45.8	55.2	76	27	44	46	86	71	0.311	0.342	2.68	0.93	4.0	2.6	3.1
February.....	30.085	30.477	29.723	49.8	55.2	61.9	45.1	53.5	79	26	40	47	86	75	.339	.344	1.14	1.14	6.5	5.0	5.1
March.....	30.072	30.202	29.858	60.0	70.5	76.6	58.3	67.4	84	42	53	52	78	53	.413	.398	3.15	3.13	1.9	1.9	1.3
April.....	29.957	30.199	29.659	63.1	70.9	77.3	60.2	68.8	85	41	55	53	76	55	.469	.426	2.90	.78	3.5	2.9	2.4
May.....	29.972	30.123	29.751	69.1	76.0	81.9	65.9	73.9	90	60	63	63	82	66	.501	.596	4.65	1.56	4.5	4.0	3.5
June.....	29.901	30.080	29.739	76.0	79.0	87.5	70.9	79.2	92	65	70	68	82	72	.736	.700	9.46	3.47	3.1	5.3	3.7
July.....	29.949	30.109	29.806	78.8	82.2	88.0	74.5	81.2	95	68	74	72	85	73	.833	.794	6.40	2.57	4.4	7.1	5.0
August.....	29.912	30.032	29.833	79.8	82.2	90.5	76.2	83.4	94	70	71	72	82	73	.831	.797	6.01	2.66	2.7	6.7	3.9
September.....	29.967	30.124	29.859	76.1	79.8	87.5	73.1	80.3	93	67	70	70	82	72	.742	.728	4.91	.99	2.7	4.1	3.9
October.....	29.965	30.469	29.637	66.7	71.9	78.4	64.6	71.5	88	40	60	61	80	70	.566	.574	2.09	.99	3.5	3.7	4.2
November.....	30.016	30.221	29.776	55.9	62.6	69.5	54.1	61.8	82	44	50	51	81	67	.377	.398	3.05	1.50	5.4	2.7	4.9
December.....	30.126	30.449	29.026	49.6	54.6	61.5	46.7	54.1	76	34	43	44	79	69	.302	.310	3.45	1.57	5.7	4.2	5.3
Year.....	30.006	30.522	29.626	64.5	70.1	77.1	61.3	69.2	95	26	58	58	82	68	.542	.534	51.50	3.47	4.0	4.2	3.9

NEW YORK, N. Y.

[$\phi=40^{\circ} 43' N.$; $\lambda=74^{\circ} 0' W.$]

January.....	29.748	30.414	28.865	30.0	33.6	38.8	26.0	32.4	51	5	25	26	81	74	0.142	0.150	5.61	1.58	6.3	5.6	6.5
February.....	29.738	30.380	29.077	28.8	32.8	37.5	23.1	31.4	59	15	20	26	67	64	.122	.134	4.07	1.75	4.6	4.2	5.0
March.....	29.739	30.180	29.132	40.4	46.0	52.4	37.0	44.7	78	24	32	34	72	64	.191	.210	.86	.26	4.3	3.2	4.5
April.....	29.592	29.943	29.241	50.0	55.0	62.1	45.8	54.0	79	34	40	43	71	65	.260	.291	4.53	2.23	6.0	4.9	5.8
May.....	29.627	30.063	29.121	56.4	61.5	67.6	52.8	60.2	81	44	46	46	70	60	.325	.325	1.66	.65	5.2	6.1	6.2
June.....	29.591	29.927	29.167	64.5	69.4	75.4	60.5	68.0	91	48	55	56	74	65	.452	.461	5.10	1.74	6.2	5.2	6.3
July.....	29.573	29.850	29.337	73.0	79.0	85.7	70.0	77.8	94	63	62	62	69	57	.557	.569	.23	.12	4.1	4.5	4.8
August.....	29.735	29.997	29.322	69.5	73.0	78.8	65.5	72.2	85	57	61	61	76	68	.547	.554	2.13	.80	6.0	5.5	6.3
September.....	29.751	29.976	29.464	65.4	69.2	75.1	61.7	68.4	90	54	58	58	77	69	.492	.499	1.43	1.17	5.5	3.7	4.9
October.....	29.678	30.079	29.175	54.0	59.2	65.7	50.7	58.2	83	32	45	45	73	61	.325	.327	3.79	3.04	5.1	2.3	4.3
November.....	29.467	30.029	29.152	38.4	42.1	46.7	36.4	41.6	65	29	31	31	72	65	.180	.177	4.62	3.16	6.2	5.5	6.9
December.....	29.702	30.399	29.072	26.2	29.5	34.5	21.5	28.0	53	9	19	19	73	62	.110	.107	1.95	.82	5.2	4.6	5.4
Year.....	29.663	30.414	28.865	49.8	54.2	60.0	46.1	53.1	94	2	41	42	73	64	.309	.317	35.98	3.16	5.4	4.6	5.6

NORFOLK, VA.

[$\phi=36^{\circ} 51' N.$; $\lambda=76^{\circ} 17' W.$]

January.....	30.050	30.661	29.195	37.6	42.6	50.2	33.0	41.6	69	24	30	31	75	65	0.180	0.191	2.53	0.60	6.2	4.5	5.6
February.....	30.080	30.577	29.578	37.4	43.5	51.8	34.5	43.2	79	15	28	31	69	70	.172	.222	2.10	.91	4.5	5.1	4.8
March.....	30.008	30.370	29.510	50.1	54.5	64.3	45.7	55.0	90	32	43	43	78	68	.296	.295	3.43	1.15	3.4	3.4	3.6
April.....	29.855	30.180	29.590	56.3	60.4	69.6	50.5	60.0	87	42	47	47	72	64	.340	.325	2.46	1.17	4.1	3.4	4.4
May.....	29.930	30.340	29.501	63.1	64.4	73.6	56.9	65.2	90	45	52	53	69	68	.412	.415	3.48	.86	3.8	4.6	4.2
June.....	29.866	30.139	29.520	69.5	71.8	79.7	64.2	72.0	92	54	62	63	77	75	.569	.562	7.07	2.67	4.7	5.8	5.6
July.....	29.865	30.071	29.566	75.7	77.9	86.1	70.7	78.4	93	64	70	70	82	76	.724	.727	6.16	2.32	4.2	4.9	4.8
August.....	29.933	30.145	29.714	74.2	75.2	82.8	70.1	76.4	90	65	70	70	86	86	.724	.746	4.05	1.32	5.9	5.4	6.2
September.....	29.989	30.166	29.789	70.8	72.7	79.9	66.8	73.4	92	58	65	66	82	80	.622	.653	.89	.72	3.5	2.7	4.5
October.....	29.960	30.391	29.488	60.3	64.1	71.9	55.8	63.8	86	36	55	57	82	78	.464	.494	3.33	1.71	2.9	2.6	3.6
November.....	29.829	30.253	29.383	41.3	46.7	52.7	38.2	45.4	71	30	33	36	74	66	.195	.214	1.02	.33	4.0	4.1	4.4
December.....	30.028	30.668	29.367	34.1	38.2	44.3	30.2	37.2	66	22	28	28	76	67	.164	.162	3.83	1.59	3.9	3.4	4.3
Year.....	29.951	30.668	29.195	55.9	59.3	67.2	51.4	59.3	93	13	49	50	77	72	.405	.420	40.35	2.67	4.3	4.1	4.7

NORTHFIELD, VT.

[$\phi=44^{\circ} 10' N.$; $\lambda=72^{\circ} 41' W.$]

January.....	29.114	29.836	28.342	15.6	19.4	28.3	7.4	17.8	49	-26	13	17	90	88	0.092	0.100	2.80	0.84	7.7	5.2	7.0
February.....	29.086	29.675	28.521	10.9	16.5	26.5	3.1	13.8	51	-23	8	13	90	86	.078	.086	3.63	.90	6.9	5.1	6.9
March.....	29.066	29.428	28.408	30.1	35.7	44.4	23.4	33.9	69	-3	23	27	75	70	.128	.148	.60	.33	5.1	3.6	6.5
April.....	29.008	29.390	28.622	43.0	46.8	55.9	34.8	45.4	78	22	36	39	78	74	.228	.249	2.17	1.03	6.4	5.1	6.5
May.....	29.008	29.482	28.499	49.8	53.3	61.3	40.5	50.9	77	25	43	45	77	73	.288	.308	4.51	1.95	7.2	6.5	7.3
June.....	29.992	29.288	28.459	59.4	61.1	69.4	43.0	59.0	85	28	53	54	80	78	.414	.431	3.18	.73	6.3	6.7	6.8
July.....	29.965	29.267	28.724	65.1	67.4	79.1	52.7	65.9	91	42	59	60	82	78	.510	.525	1.96	.58	4.5	5.4	5.4
August.....	29.133	29.493	28.701	60.1	62.5	74.0	49.8	61.9	84	34	55	56	85	80	.446	.457	2.57	1.23	5.4	4.1	5.6
September.....	29.172	29.440	28.817	51.5	54.4	66.1	43.5	54.8	75	30	48	50	88	85	.342	.366	4.72	2.24	5.3	4.5	5.9
October.....	29.031	29.530	28.499	43.1	45.8	56.0	35.4	45.7	82	19	39	39	84	78	.254	.253	1.68	.39	7.1	4.6	6.8
November.....	29.834	29.407	28.422	29.5	32.5	37.4	26.6	32.0	53	11	26	28	88	83	.144	.155	2.19	1.06	8.5	8.3	8.4
December.....	29.026	29.741	28.409	9.9	12.1	23.7	1.0	12.4	45	-19	8	10	93	91	.075	.073	1.70	.75	7.8	5.4	6.7
Year.....	29.037	29.836	28.342	39.0	42.3	51.8	30.6	41.2	91	-26	34	36	84	80	.250	.263	31.71	2.24	6.5	5.4	6.6

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

NORTH HEAD, WASH.

[$\phi=46^{\circ}16' N.$; $\lambda=124^{\circ}4' W.$]

Month.	Pressure.			Temperature.							Moisture.												
	Monthly mean.	Extremes.		Mean.					Extremes.		Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.						
		Maximum.	Minimum.	8 a. m.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.		8 a. m.	8 p. m.	8 a. m.	8 p. m.		8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
January.....	29.775	30.432	28.987	34.8	40.1	43.0	35.1	39.0	52	21	37	38	63	92	0.221	0.232	10.94	1.50	8.0	8.1	8.3		
February.....	29.859	30.404	29.208	39.0	43.0	45.8	36.3	41.0	54	30	37	40	61	88	0.219	0.249	6.75	1.13	7.5	8.5	8.2		
March.....	29.886	30.279	29.515	44.0	47.3	49.8	42.0	45.9	59	35	42	44	63	89	0.269	0.290	4.24	2.65	6.0	5.9	6.8		
April.....	29.902	30.264	29.381	45.5	48.1	50.4	43.8	47.1	57	38	43	43	61	84	0.277	0.281	3.44	1.29	7.8	7.5	8.6		
May.....	29.923	30.243	29.620	49.6	52.1	54.0	48.4	51.2	61	44	47	47	62	85	0.330	0.328	2.29	0.56	7.4	6.3	6.4		
June.....	29.877	30.161	29.595	51.4	54.6	56.2	50.0	53.1	64	47	48	48	68	78	0.329	0.331	2.22	0.76	8.4	6.3	6.1		
July.....	29.878	30.026	29.640	53.8	56.8	58.1	52.5	55.3	67	46	50	51	67	82	0.356	0.378	1.13	0.67	7.9	4.0	6.2		
August.....	29.935	30.068	29.658	53.2	55.3	57.5	51.8	54.6	74	47	51	51	68	80	0.371	0.375	0.45	0.19	5.9	5.8	8.0		
September.....	29.863	30.055	29.676	52.6	55.7	58.1	50.7	54.4	73	47	50	51	63	86	0.366	0.376	2.42	0.97	5.6	6.2	7.7		
October.....	29.853	30.143	29.266	51.6	53.2	55.5	49.5	52.5	68	41	48	48	60	86	0.339	0.340	4.05	1.07	6.9	6.9	8.0		
November.....	29.748	30.101	29.303	46.1	48.3	50.8	43.3	47.0	58	35	44	44	52	86	0.288	0.292	9.12	1.53	7.8	8.4	8.8		
December.....	29.929	30.314	29.491	43.5	46.7	49.3	42.3	45.8	57	36	43	43	51	88	0.280	0.280	6.58	1.08	6.7	6.8	8.5		
Year.....	29.869	30.432	28.987	47.3	50.1	52.4	45.5	49.9	74	21	45	46	61	86	0.304	0.313	52.63	2.65	7.2	6.7	7.5		

NORTH PLATTE, NEBR.

[$\phi=41^{\circ}8' N.$; $\lambda=100^{\circ}45' W.$]

January.....	27.128	27.598	26.553	16.5	24.7	32.7	11.6	22.2	57	-9	14	18	87	76	0.085	0.104	0.34	0.28	4.3	4.8	4.5
February.....	27.126	27.593	26.546	15.3	30.8	40.6	12.4	26.5	67	-6	11	16	80	52	0.075	0.089	0.62	0.02	3.8	3.9	3.0
March.....	27.008	27.463	26.571	34.3	61.6	69.8	32.3	51.0	86	22	27	30	76	33	0.147	0.170	0.19	0.18	2.9	3.4	2.2
April.....	27.042	27.382	26.550	39.2	62.3	68.6	36.8	52.7	95	25	29	30	69	33	0.163	0.174	0.48	0.26	3.3	4.6	3.9
May.....	27.115	27.450	26.677	45.6	62.5	66.9	42.5	54.7	87	28	41	42	84	51	0.261	0.271	2.69	1.44	4.8	4.9	4.7
June.....	27.065	27.350	26.771	59.5	76.2	81.5	55.8	68.6	98	40	53	52	79	47	0.408	0.401	2.75	1.13	3.3	4.9	3.3
July.....	27.077	27.259	26.814	62.8	83.9	89.6	69.5	74.6	106	47	67	60	83	46	0.478	0.526	0.50	0.41	3.5	2.7	2.6
August.....	27.113	27.465	26.821	58.4	76.8	83.2	56.4	69.8	99	36	54	57	87	53	0.435	0.483	2.02	0.58	4.7	4.5	4.3
September.....	27.133	27.526	26.740	53.3	70.7	78.2	51.8	65.0	93	39	45	51	84	53	0.353	0.398	0.97	0.42	6.3	3.3	4.3
October.....	27.106	27.537	26.696	39.2	60.7	74.2	36.6	55.4	93	12	31	35	73	40	0.192	0.219	0.01	0.01	2.5	2.5	1.9
November.....	27.108	27.509	26.701	26.3	40.7	52.8	22.8	37.8	73	11	22	26	81	65	0.115	0.136	0.11	0.11	3.9	2.8	4.4
December.....	27.137	27.546	26.757	22.1	30.7	42.2	18.1	30.2	54	2	20	23	89	73	0.106	0.123	0.72	0.24	4.3	4.2	4.8
Year.....	27.104	27.598	26.546	39.5	56.8	65.0	36.4	50.7	106	-9	34	37	81	51	0.235	0.258	10.70	1.44	4.0	3.9	3.7

OKLAHOMA, OKLA.

[$\phi=35^{\circ}26' N.$; $\lambda=97^{\circ}33' W.$]

January.....	28.646	29.266	28.294	33.5	41.6	48.9	29.7	39.3	75	11	28	20	79	67	0.156	0.175	0.89	0.59	3.7	4.3	4.8
February.....	28.831	29.222	28.348	29.4	37.7	46.5	24.3	35.4	71	7	25	27	85	66	0.149	0.153	0.55	0.42	5.4	4.5	5.5
March.....	28.776	29.042	28.448	49.4	66.2	73.6	47.4	60.5	87	33	38	36	66	38	0.227	0.231	0.65	0.35	3.8	2.6	3.3
April.....	28.662	28.981	28.284	51.7	66.7	72.9	49.7	61.3	89	35	42	42	72	46	0.290	0.296	4.31	3.75	3.7	3.5	3.6
May.....	28.689	29.010	28.282	58.6	68.7	74.4	55.4	64.9	92	45	52	52	62	59	0.406	0.398	2.72	1.23	5.6	5.7	5.6
June.....	28.646	28.933	28.224	68.4	82.8	87.1	65.4	76.2	97	53	60	59	76	46	0.531	0.509	1.09	0.62	3.2	4.3	4.0
July.....	28.640	28.967	28.447	73.0	88.9	94.2	71.0	82.6	104	64	65	64	76	45	0.617	0.597	0.94	0.49	3.8	4.3	3.7
August.....	28.677	28.968	28.487	71.6	85.3	91.5	70.2	80.8	106	53	66	70	85	63	0.655	0.740	3.08	1.76	4.5	3.7	3.9
September.....	28.731	29.012	28.376	67.8	81.7	89.4	65.7	77.6	100	48	61	60	79	50	0.542	0.533	1.72	0.88	4.2	2.5	3.9
October.....	28.766	29.256	28.363	52.8	66.4	75.1	50.5	62.8	94	28	46	47	78	51	0.339	0.349	1.31	0.77	2.7	2.3	2.9
November.....	28.755	29.187	28.390	41.2	53.8	64.3	37.8	51.0	81	23	35	32	71	43	0.198	0.196	0.3	0.17	2.4	1.3	2.5
December.....	28.847	29.262	28.439	32.3	42.7	50.1	29.4	39.8	64	14	26	26	69	61	0.129	0.139	0.63	0.03	3.6	1.6	3.4
Year.....	28.739	29.266	28.224	52.5	65.2	72.3	49.7	61.0	106	7	45	45	76	52	0.354	0.358	17.27	3.75	3.9	3.4	3.9

OMAHA, NEBR.

[$\phi=41^{\circ}16' N.$; $\lambda=95^{\circ}56' W.$]

January.....	28.906	29.398	28.131	19.4	24.6	29.2	15.5	22.4	48	-10	17	20	90	85	0.102	0.113	0.94	0.50	5.0	3.5	5.8
February.....	28.946	29.320	28.260	17.8	25.9	32.8	12.6	22.7	51	-8	15	16	87	64	0.096	0.096	0.28	0.18	4.0	3.5	4.7
March.....	28.848	29.224	28.437	43.2	61.6	66.7	42.3	54.5	88	29	33	35	68	36	0.190	0.207	0.7	0.7	1.9	2.3	3.1
April.....	28.729	29.064	28.223	46.5	61.0	66.3	43.6	55.0	94	22	36	36	68	44	0.219	0.225	0.26	0.20	5.1	4.2	4.8
May.....	28.851	29.261	28.459	50.5	62.3	66.3	48.6	57.4	79	37	42	41	74	50	0.273	0.268	2.23	0.98	5.8	6.0	5.6
June.....	28.811	29.054	28.584	65.5	78.6	82.5	63.4	73.0	95	49	55	55	70	45	0.447	0.434	0.43	0.27	4.4	4.1	3.6
July.....	28.758	29.004	28.490	69.6	83.2	88.1	67.6	77.8	104	59	60	59	72	46	0.522	0.511	1.90	0.76	5.3	2.9	4.3
August.....	28.808	29.121	28.522	66.4	78.6	83.4	64.5	74.0	96	53	59	61	78	57	0.520	0.568	4.76	2.40	5.6	4.6	5.0
September.....	28.859	29.287	28.449	58.8	70.0	74.9	57.6	66.2	91	42	54	57	84	65	0.429	0.482	3.43	1.78	6.1	4.1	4.5
October.....	28.833	29.224	28.367	49.9	62.7	69.4	48.4	58.9	88	37	41	44	72	52	0.276	0.310	0.72	0.64	2.7	1.5	3.0
November.....	28.869	29.294	28.382	31.5	41.7	47.5	29.0	38.2	69	18	24	26	74	58	0.129	0.138	0.17	0.11	4.9	2.9	5.4
December.....	28.930	29.468	28.567	24.9	29.3	33.4	20.8	27.1	48	6	20	21	68	69	0.107	0.111	0.37	0.27			

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

OSWEGO, N. Y.

[$\phi=43^{\circ} 29' N.$; $\lambda=76^{\circ} 35' W.$]

Month.	Pressure.			Temperature.							Moisture.										
	Monthly mean.	Extremes.		Mean.				Extremes.	Dew point.	Relative humidity.		Vapor pressure.	Precipitation.	Cloudiness.							
		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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
January.....	29.698	30.494	28.741	23.6	27.3	31.5	18.2	24.8	47	-12	21	23	88	82	0.114	0.125	4.07	0.69	8.9	8.5	8.9
February.....	29.712	30.233	29.239	19.2	23.1	29.3	13.7	21.5	48	-10	16	18	88	81	0.099	0.105	5.02	1.60	8.9	8.7	8.4
March.....	29.661	30.989	29.070	36.5	39.4	47.1	30.6	38.8	78	14	29	30	74	70	0.165	0.177	2.92	3.35	5.2	3.4	4.8
April.....	29.552	29.943	29.076	45.7	46.8	55.8	39.0	47.4	80	30	37	38	71	74	0.228	0.239	2.00	4.48	5.6	5.3	5.8
May.....	29.596	30.069	29.121	50.0	51.5	59.0	45.8	51.4	77	37	45	46	64	62	0.308	0.323	3.57	1.08	5.7	6.1	5.4
June.....	29.533	29.873	29.082	60.5	62.8	68.9	55.1	62.0	83	40	53	52	77	70	0.414	0.402	1.89	8.9	5.9	5.6	4.9
July.....	29.530	29.814	29.265	67.8	71.5	77.9	62.3	70.1	93	55	60	60	76	67	0.520	0.521	3.41	8.6	3.7	4.3	3.2
August.....	29.653	29.936	29.277	65.0	69.6	75.8	59.9	67.8	86	49	58	59	77	70	0.482	0.509	4.65	1.58	4.8	6.1	4.7
September.....	29.708	29.986	29.387	58.2	61.5	67.6	53.6	60.6	83	45	54	55	79	73	0.423	0.439	1.77	3.8	6.4	4.2	5.5
October.....	29.611	30.058	29.000	49.4	51.6	59.4	44.2	51.8	80	28	43	43	79	73	0.296	0.289	3.34	1.13	7.1	4.6	6.1
November.....	29.454	29.912	29.098	35.5	36.6	40.6	31.9	36.2	61	20	30	30	81	77	0.169	0.166	4.50	0.71	9.3	8.8	9.1
December.....	29.661	30.339	28.973	20.6	22.5	28.3	14.5	21.4	40	-6	17	19	85	84	0.097	0.104	2.05	0.41	8.8	8.4	8.8
Year.....	29.617	30.494	28.741	44.3	47.0	53.4	38.9	46.2	93	-12	39	39	80	76	0.276	0.283	36.99	1.98	6.7	6.2	6.3

PALESTINE, TEX.

[$\phi=31^{\circ} 45' N.$; $\lambda=95^{\circ} 40' W.$]

January.....	29.644	30.055	29.187	43.8	54.6	61.3	40.3	50.8	75	20	36	35	76	51	0.246	0.225	0.48	0.18	5.6	4.6	4.4
February.....	29.617	30.024	29.267	39.4	50.1	55.9	35.4	45.6	73	12	35	36	63	62	0.219	0.238	3.18	1.39	6.9	5.0	5.9
March.....	29.573	29.735	29.250	56.5	70.6	78.1	55.1	65.6	88	42	49	44	79	43	0.370	0.303	1.92	1.06	4.4	4.1	3.6
April.....	29.460	29.697	29.112	57.2	70.9	75.2	55.0	65.1	85	34	48	45	75	48	0.373	0.369	3.64	2.32	5.0	3.6	3.5
May.....	29.454	29.691	29.183	63.5	75.8	79.9	61.5	70.7	86	52	59	60	86	60	0.513	0.525	5.75	2.78	6.3	4.9	4.8
June.....	29.405	29.636	29.135	71.0	82.2	87.3	68.7	78.0	93	67	68	67	87	68	0.608	0.626	1.49	5.4	5.7	3.6	3.8
July.....	29.423	29.570	29.247	73.9	85.6	90.9	72.2	81.6	96	67	68	67	87	68	0.756	0.800	1.75	6.2	5.9	3.0	3.4
August.....	29.421	29.566	29.287	75.5	89.0	94.3	74.5	84.4	96	60	70	68	85	61	0.745	0.675	0.96	7.6	5.0	4.4	3.9
September.....	29.512	29.640	29.247	71.0	84.9	92.6	70.3	81.4	96	64	66	61	86	48	0.659	0.553	1.13	5.6	3.6	3.7	3.3
October.....	29.513	30.008	29.198	59.3	72.2	79.5	57.8	68.6	92	31	52	50	76	48	0.431	0.407	1.06	0.74	3.6	2.5	2.8
November.....	29.523	29.894	29.291	53.2	62.5	69.8	50.2	60.0	84	34	47	44	80	55	0.353	0.319	1.92	1.25	6.3	2.7	4.8
December.....	29.621	29.903	29.135	44.4	53.4	59.7	42.1	50.9	76	28	39	40	81	64	0.262	0.280	3.23	1.65	6.3	5.1	6.3
Year.....	29.511	30.055	29.112	59.1	71.0	76.9	56.9	66.9	99	12	53	52	82	54	0.466	0.433	26.51	2.78	5.4	4.1	4.2

PARKERSBURG, W. VA.

[$\phi=39^{\circ} 16' N.$; $\lambda=81^{\circ} 36' W.$]

January.....	29.469	30.126	28.805	29.2	32.6	39.4	24.6	32.0	56	1	26	28	86	82	0.148	0.158	6.53	1.43	8.2	7.6	8.4
February.....	29.506	29.901	29.007	26.4	32.8	39.5	22.8	31.2	64	8	23	24	86	70	0.133	0.137	3.42	1.21	6.7	5.4	6.9
March.....	29.447	29.679	29.100	40.5	55.7	63.4	38.4	50.9	86	22	34	36	79	51	0.203	0.222	1.10	0.7	4.2	3.9	5.1
April.....	29.284	29.652	29.024	46.4	58.1	65.6	42.4	54.0	85	30	39	41	76	58	0.241	0.268	1.87	0.70	6.1	6.0	6.6
May.....	29.382	29.781	29.053	55.0	61.2	68.2	49.3	58.8	86	35	47	48	75	66	0.338	0.362	3.24	0.78	5.5	6.4	6.3
June.....	29.324	29.558	29.006	62.8	71.3	78.8	58.7	68.8	92	44	58	62	84	75	0.497	0.580	1.75	4.8	5.6	6.7	5.8
July.....	29.315	29.551	29.106	71.0	77.6	85.0	66.4	75.7	97	54	66	68	84	72	0.641	0.681	2.08	1.00	5.6	6.2	5.6
August.....	29.397	29.582	29.196	65.8	76.5	85.2	61.8	73.6	93	61	69	69	81	64	0.521	0.535	1.19	0.48	4.4	4.1	4.4
September.....	29.446	29.670	29.215	62.9	70.5	80.1	59.6	69.8	89	46	59	61	87	73	0.513	0.556	1.58	0.71	5.1	4.0	5.5
October.....	29.410	29.828	29.086	51.6	61.0	71.1	48.2	59.6	89	26	46	50	83	67	0.336	0.379	1.15	0.71	3.6	2.0	5.5
November.....	29.332	29.604	29.097	34.3	39.5	46.1	31.3	38.7	69	21	29	31	81	72	0.162	0.177	1.74	0.64	8.0	6.3	8.6
December.....	29.474	30.047	28.890	25.1	31.2	35.3	21.4	28.4	61	1	22	26	67	62	0.122	0.146	3.34	1.00	7.9	7.9	8.7
Year.....	29.399	30.126	28.805	47.6	55.7	63.1	43.7	53.4	97	1	42	45	82	69	0.321	0.354	28.89	1.43	5.9	5.5	6.4

PENSACOLA, FLA.

[$\phi=30^{\circ} 25' N.$; $\lambda=87^{\circ} 13' W.$]

January.....	30.149	30.534	29.399	48.3	.....	60.5	45.0	52.8	72	28	43	.....	82	.....	0.305	.....	1.06	0.51	4.0	.....	3.8
February.....	30.100	30.456	29.656	49.0	.....	59.5	45.4	52.4	69	26	45	.....	88	.....	0.333	.....	0.57	1.83	6.6	.....	5.9
March.....	30.071	30.246	29.909	58.5	.....	71.5	57.4	64.4	87	39	54	.....	87	.....	0.441	.....	1.82	0.81	1.8	.....	3.0
April.....	29.967	30.224	29.721	61.9	.....	72.5	59.0	65.8	78	40	57	.....	84	.....	0.489	.....	1.03	0.60	4.2	.....	4.4
May.....	29.985	30.153	29.760	69.6	.....	78.2	65.9	72.0	90	59	64	.....	83	.....	0.608	.....	2.50	1.35	3.0	.....	4.3
June.....	29.903	30.082	29.735	75.6	.....	83.1	71.5	77.3	93	67	70	.....	84	.....	0.747	.....	6.26	1.72	5.1	.....	5.5
July.....	29.960	30.115	29.843	77.9	.....	85.0	74.3	79.6	94	69	74	.....	88	.....	0.844	.....	7.98	1.36	5.7	.....	6.2
August.....	29.917	30.053	29.878	77.9	.....	86.8	75.4	81.1	95	70	73	.....	85	.....	0.819	.....	4.79	2.23	5.0	.....	5.2
September.....	29.979	30.142	29.901	75.2	.....	85.5	73.2	79.4	95	64	68	.....	80	.....	0.707	.....	2.57	1.63	4.1	.....	4.5
October.....	29.960	30.485	29.561	66.6	.....	78.1	63.8	71.0	86	35	59	.....	77	.....	0.546	.....	3.94	1.69	3.8	.....	4.1
November.....	30.010	30.205	29.758	53.6	.....	66.9	51.7	59.3	76	37	46	.....	76	.....	0.335	.....	2.15	1.24	4.0	.....	4.1
December.....	30.139	30.478	29.695	46.7	.....	57.9	43.2	50.6	68	28	38	.....	72	.....	0.254	.....	5.22	2.69	5.1	.....	4.9
Year.....	30.012	30.534	29.399	63.4	.....	73.8	60.5	67.1	95	26	58	.....	82	.....	0.536	.....	45.89	2.69	4.3	.....	4.7

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

PITTSBURGH, PA.

[φ=40° 32' N.; λ=80° 02' W.]

Month.	Pressure.			Temperature.						Moisture.										
	Monthly mean.	Extremes.		Mean.			Extremes.			Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.				
		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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
January.....	In. 29.178	In. 29.870	In. 28.407	28.5	32.1	37.8	23.8	28.5	51	24	27	82	81	0.133	0.153	5.33	In. 1.03	7.8	6.1	8.4
February.....	29.219	29.632	28.718	24.8	30.8	37.0	26.3	28.0	55	20	23	80	71	.121	.129	3.60	1.08	6.1	5.6	6.7
March.....	29.171	29.389	28.761	42.3	53.0	58.9	38.7	48.8	83	21	33	70	57	.197	.254	.57	.18	4.1	3.1	4.6
April.....	29.014	29.408	28.675	46.6	55.0	62.8	42.8	52.8	83	29	36	69	58	.221	.254	2.21	.72	6.6	5.9	6.4
May.....	29.108	29.446	28.735	54.3	59.7	66.4	49.3	57.8	83	36	48	48	79	.343	.347	3.24	.78	6.1	6.5	6.1
June.....	29.065	29.317	28.685	62.1	70.7	75.2	57.9	67.0	90	42	56	57	80	.456	.472	1.94	.44	5.1	6.3	5.1
July.....	29.059	29.303	28.840	70.3	77.8	83.6	66.2	74.9	91	57	62	60	75	.558	.542	1.26	.63	3.9	4.9	4.1
August.....	29.146	29.340	28.895	66.1	76.0	82.7	63.0	72.8	90	49	57	55	74	.476	.450	2.47	.92	2.4	4.3	3.5
September.....	29.194	29.447	28.937	62.4	69.7	76.1	59.1	67.6	86	47	56	57	81	.469	.483	5.50	1.82	5.7	4.2	4.8
October.....	29.145	29.520	28.640	51.9	59.3	67.1	48.1	57.6	84	28	44	45	75	.61	.308	1.69	.78	3.5	2.7	3.5
November.....	29.029	29.343	28.636	34.7	37.9	42.3	31.9	37.1	63	24	28	29	76	.154	.161	1.32	.52	8.1	8.2	8.5
December.....	29.179	29.750	28.685	24.3	29.4	33.2	20.7	27.0	55	11	21	23	85	.113	.128	2.87	.86	8.1	6.5	7.3
Year.....	29.126	29.870	28.407	47.4	54.4	60.3	43.5	51.7	91	2	40	42	77	.296	.307	31.80	1.82	5.6	5.4	5.8

POCATELLO, IDAHO.

[φ=42° 52' N.; λ=112° 29' W.]

January.....	25.539	25.925	24.904	18.6	24.2	29.8	11.6	20.7	54	-15	12	15	75	68	0.082	0.088	1.46	0.93	7.1	7.6	7.0
February.....	25.504	25.979	24.961	20.6	26.9	32.9	15.4	24.2	51	-12	15	19	77	70	.093	.104	.58	.20	7.2	6.9	7.2
March.....	25.526	25.819	25.150	30.9	33.4	37.9	23.7	33.7	70	26	29	31	74	44	.162	.175	.64	.28	3.6	3.9	4.0
April.....	25.494	25.806	25.026	41.9	40.7	45.0	38.8	51.9	84	25	29	28	62	35	.165	.160	1.54	.71	2.9	5.0	4.0
May.....	25.497	25.738	25.175	45.7	46.9	49.5	42.5	56.0	93	32	34	30	66	29	.189	.189	.94	.42	4.0	2.8	3.7
June.....	25.407	25.700	25.155	53.6	53.6	50.0	50.0	65.2	94	38	31	30	44	19	.178	.172	.08	.05	2.0	2.6	2.4
July.....	25.467	25.660	25.263	62.4	64.8	68.5	58.7	73.6	96	46	42	42	48	25	.275	.284	.10	.05	2.1	3.8	3.1
August.....	25.500	25.747	25.197	55.0	61.9	64.5	52.6	68.6	92	28	32	33	43	18	.191	.194	.11	.10	1.0	0.9	1.5
September.....	25.491	25.677	25.240	50.5	51.7	50.0	47.6	61.3	87	32	35	41	58	34	.219	.265	.36	.20	2.7	3.1	3.1
October.....	25.567	25.924	25.167	41.8	58.9	64.9	37.5	51.2	86	19	28	33	60	39	.158	.191	1.17	.36	2.2	3.2	3.0
November.....	25.507	25.732	25.131	30.6	42.8	49.0	30.9	40.0	66	15	26	30	67	61	.144	.164	1.32	.47	5.5	6.3	7.0
December.....	25.582	25.883	25.220	29.1	33.1	37.5	25.4	31.4	51	16	24	26	80	73	.128	.137	1.20	.40	5.5	5.2	6.3
Year.....	25.507	25.979	24.904	41.1	56.9	61.2	37.1	49.2	96	-15	28	30	63	43	.166	.176	9.50	.93	3.8	4.3	4.4

POINT REYES LIGHT, CAL.

[φ=38° 11' N.; λ=122° 51' W.]

January.....	29.589	29.884	28.993	47.1	50.8	42.3	46.6	65	35	43	43	87	87	0.283	2.66	0.84	5.6	6.4
February.....	29.652	29.744	29.387	49.2	52.7	44.4	48.6	64	38	45	45	87	87	.305	2.11	.57	5.6	6.1
March.....	29.506	29.756	29.154	50.9	54.3	46.3	50.3	68	43	48	48	80	80	.332	4.02	1.16	4.8	6.7
April.....	29.527	29.689	29.298	53.4	56.5	46.5	51.5	83	44	48	48	83	83	.330	.39	.20	4.0	5.8
May.....	29.492	29.613	29.292	54.4	59.0	48.0	53.5	75	45	50	50	86	86	.362	.06	.06	3.5	5.3
June.....	29.434	29.609	29.199	53.2	54.9	48.8	50.8	59	45	48	48	85	85	.339	.07	.06	2.4	3.3
July.....	29.392	29.468	29.207	53.2	56.2	47.8	52.0	64	45	51	51	83	83	.379	T.	T.	3.3	7.5
August.....	29.412	29.503	29.258	54.2	56.1	49.1	52.6	68	46	52	52	82	82	.366	0	0	4.2	7.4
September.....	29.416	29.520	29.200	52.7	55.0	48.3	51.6	64	45	50	50	81	81	.362	.04	.03	3.3	7.2
October.....	29.471	29.667	29.276	54.7	60.3	49.9	55.1	78	44	48	48	89	89	.375	.27	.19	3.4	5.6
November.....	29.531	29.682	29.270	52.5	56.0	48.8	52.4	75	44	48	48	87	87	.342	1.28	.46	4.5	6.9
December.....	29.586	29.728	29.368	52.0	56.6	47.8	52.2	86	44	48	48	88	88	.330	1.32	.60	4.9	6.0
Year.....	29.502	29.884	28.993	52.3	55.7	47.2	51.4	83	35	48	48	88	88	.344	12.12	1.16	4.1	6.2

PORT CRESCENT, WASH.

[φ=48° 8' N.; λ=123° 41' W.]

January.....	29.703	30.394	28.915	38.4	42.2	30.2	36.2	53	17	34	34	84	84	0.198	6.57	2.30	7.9	7.5
February.....	29.778	30.330	28.942	38.1	40.7	29.6	35.2	49	16	32	32	82	82	.183	5.32	1.60	8.5	6.8
March.....	29.816	30.146	29.450	46.5	49.6	35.8	42.7	60	28	40	40	83	83	.261	2.60	.75	6.9	6.2
April.....	29.833	30.150	29.359	48.2	50.6	35.2	42.9	67	29	41	41	84	84	.248	1.58	.42	6.6	5.6
May.....	29.861	30.186	29.574	53.1	57.2	39.8	48.5	70	31	46	46	77	77	.306	.77	.25	4.7	4.7
June.....	29.829	30.007	29.490	54.4	58.5	42.3	50.4	74	35	48	48	74	74	.309	1.35	.53	6.2	5.8
July.....	29.830	29.944	29.574	58.2	62.4	46.3	54.4	80	38	50	50	75	75	.358	T.	T.	2.2	3.5
August.....	29.886	30.044	29.691	50.9	60.2	45.3	52.8	75	35	49	49	78	78	.355	.16	.07	3.3	4.9
September.....	29.810	29.977	29.565	51.0	54.1	41.6	47.8	64	29	46	46	82	82	.339	1.58	.55	5.1	5.6
October.....	29.760	30.192	29.214	43.6	47.7	35.6	41.6	56	27	41	41	85	85	.316	4.88	1.48	7.7	7.3
November.....	29.662	29.972	28.934	43.6	47.7	35.6	41.6	56	27	41	41	85	85	.257	8.92	2.85	8.1	7.7
December.....	29.828	30.249	29.330	42.1	45.6	35.0	40.3	51	29	40	40	90	90	.244	7.46	1.65	8.6	8.0
Year.....	29.802	30.394	28.915	49.8	52.4	38.3	45.3	90	16	43	43	81	81	.281	41.19	2.85	6.3	6.1

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

PORT HURON, MICH.

[$\phi=43^{\circ} 0' N.$; $\lambda=82^{\circ} 20' W.$]

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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
										In.			In.	In.							
January.....	29.339	30.014	28.557	22.0	25.0	28.2	18.1	23.6	41	0	19	21	86	83	0.104	0.114	1.99	0.58	9.0	8.8	8.4
February.....	29.392	29.854	28.828	16.4	22.1	27.8	12.4	20.1	43	-3	12	16	82	78	0.079	0.098	1.25	0.45	6.2	5.9	6.2
March.....	29.342	29.607	28.876	36.4	41.3	51.5	32.0	41.8	77	17	30	30	76	63	0.172	0.176	1.41	0.47	5.4	4.9	5.4
April.....	29.204	29.584	28.751	42.4	46.0	55.5	37.5	46.5	78	27	37	38	82	76	0.228	0.239	3.50	1.10	5.7	6.3	5.8
May.....	29.296	29.723	28.881	48.6	51.8	59.5	42.0	50.5	75	32	40	41	74	69	0.232	0.275	2.96	0.82	5.6	4.8	5.8
June.....	29.276	29.315	28.820	61.3	63.0	71.2	53.9	62.6	83	37	52	54	72	73	0.402	0.427	1.10	0.35	5.8	4.8	5.1
July.....	29.238	29.556	29.031	68.6	72.3	81.0	61.4	71.2	95	56	59	60	71	67	0.501	0.528	5.13	4.13	3.6	4.1	4.4
August.....	29.319	29.533	28.993	64.3	69.8	77.6	58.0	67.8	80	45	58	59	81	70	0.496	0.509	1.34	0.51	5.5	6.4	6.9
September.....	29.391	29.671	29.080	56.5	62.3	69.9	51.8	60.8	81	43	52	54	85	74	0.398	0.419	2.41	0.78	4.9	5.3	4.7
October.....	29.304	29.700	28.773	47.5	52.6	60.9	43.3	52.1	80	26	42	44	83	74	0.286	0.309	1.22	0.57	5.1	3.2	5.5
November.....	29.197	29.566	28.807	32.2	35.1	39.8	29.9	34.8	60	24	27	30	79	82	0.146	0.170	1.80	0.70	8.4	8.4	9.3
December.....	29.348	29.945	28.714	20.3	22.9	28.1	15.3	21.7	38	3	18	18	88	82	0.097	0.101	2.41	0.55	8.0	7.1	7.3
Year.....	29.304	30.014	28.557	43.0	47.0	54.3	38.0	46.1	95	-3	37	39	80	74	0.294	0.280	25.52	4.11	6.1	5.9	6.3

PORTLAND, ME.

[$\phi=43^{\circ} 39' N.$; $\lambda=70^{\circ} 15' W.$]

January.....	29.961	30.689	29.041	24.6	28.7	34.4	21.1	27.8	49	-4	19	22	77	74	0.114	0.126	2.90	0.83	5.8	4.7	5.6
February.....	29.934	30.643	29.322	18.9	25.2	31.7	14.7	23.2	49	-3	12	17	75	68	0.086	0.101	4.84	1.52	4.9	4.8	5.5
March.....	29.921	30.376	29.211	33.7	37.5	44.2	30.2	37.2	74	11	25	29	69	71	0.140	0.161	1.62	0.72	4.9	3.4	4.4
April.....	29.846	30.339	29.414	43.8	45.5	52.7	39.0	45.8	68	30	35	37	75	74	0.219	0.228	4.12	1.02	5.5	4.1	5.9
May.....	29.832	30.273	29.510	51.7	52.0	59.5	43.8	52.6	72	34	40	44	72	75	0.277	0.297	1.65	0.47	6.7	6.3	6.6
June.....	29.786	30.354	29.304	61.0	61.7	69.2	53.2	61.2	89	41	52	52	64	73	0.399	0.385	3.26	0.83	5.7	6.8	6.0
July.....	29.748	30.007	29.463	68.9	68.9	78.8	60.5	69.6	91	54	60	58	73	71	0.514	0.490	1.64	0.63	3.7	4.2	4.5
August.....	29.948	30.292	29.519	63.2	64.4	72.2	56.5	64.4	85	48	55	57	77	78	0.449	0.471	2.79	0.72	4.0	4.3	4.8
September.....	29.985	30.240	29.660	56.7	58.7	66.0	51.1	58.6	79	40	49	51	77	76	0.364	0.377	2.89	0.83	5.9	4.8	5.5
October.....	29.838	30.354	29.287	47.1	50.5	57.9	42.1	50.0	77	29	38	40	71	69	0.246	0.261	1.27	0.33	5.7	3.1	5.4
November.....	29.622	30.266	29.178	35.1	37.8	42.4	32.3	37.4	54	23	29	29	76	71	0.160	0.166	1.85	0.61	6.1	5.1	6.2
December.....	29.849	30.583	29.217	20.6	23.1	29.3	14.6	22.0	48	0	14	14	72	68	0.093	0.092	3.43	1.19	6.4	4.5	5.8
Year.....	29.856	30.689	29.041	43.8	46.2	53.2	38.4	45.8	91	-4	36	38	74	72	0.255	0.264	32.26	1.52	5.5	4.7	5.5

PORTLAND, OREG.

[$\phi=45^{\circ} 32' N.$; $\lambda=122^{\circ} 41' W.$]

January.....	29.913	30.546	29.068	36.2	39.9	42.3	32.8	37.6	53	21	31	33	82	78	0.180	0.199	6.26	1.47	6.8	8.1	8.4
February.....	29.975	30.467	29.338	36.9	42.1	44.5	34.1	39.3	56	23	33	35	85	77	0.190	0.208	6.45	1.24	6.9	7.9	8.1
March.....	29.932	30.325	29.498	45.9	58.7	60.8	43.6	52.2	74	33	42	46	86	64	0.269	0.318	2.25	0.68	5.7	6.2	5.4
April.....	29.936	30.327	29.491	46.0	61.1	62.8	44.7	53.8	89	34	42	42	85	54	0.266	0.275	3.78	1.32	7.0	6.1	6.1
May.....	29.841	30.280	29.532	51.6	68.1	69.7	50.4	60.0	86	44	46	46	83	48	0.318	0.314	1.07	0.64	4.0	4.0	4.7
June.....	29.899	30.226	29.524	52.3	68.1	69.3	51.3	60.3	94	44	46	45	81	49	0.316	0.307	1.51	0.94	7.4	5.8	4.9
July.....	29.861	30.032	29.583	56.7	77.2	78.1	56.1	67.1	97	51	50	53	80	44	0.368	0.406	1.52	1.04	3.3	1.7	2.7
August.....	29.936	30.145	29.640	54.4	73.4	74.3	53.5	63.9	91	48	49	52	83	49	0.346	0.390	1.13	0.68	4.9	1.1	4.4
September.....	29.891	30.117	29.644	52.7	67.9	69.2	50.9	60.0	82	45	49	50	87	56	0.343	0.366	1.15	0.56	6.4	4.4	6.0
October.....	29.926	30.205	29.331	51.6	59.5	62.4	49.6	56.0	75	40	47	47	85	65	0.329	0.330	3.43	1.45	7.3	6.6	7.0
November.....	29.864	30.190	29.479	44.1	48.6	51.7	41.8	46.8	65	34	40	41	87	77	0.256	0.266	3.24	1.87	8.3	8.8	8.6
December.....	30.024	30.329	29.623	40.9	44.6	46.9	38.9	42.9	58	31	37	40	87	83	0.224	0.245	8.53	5.6	6.3	7.6	8.3
Year.....	29.925	30.546	29.068	47.4	59.1	61.0	45.6	53.3	97	21	43	44	84	62	0.284	0.302	38.65	1.87	6.4	5.7	6.2

PROVIDENCE, R. I.

[$\phi=41^{\circ} 50' N.$; $\lambda=71^{\circ} 25' W.$]

January.....	29.916	30.641	28.981	28.2	32.2	39.4	23.5	31.4	56	-5	22	24	78	72	0.132	0.142	4.85	1.16	6.1	5.1	6.5
February.....	29.906	30.600	29.309	25.7	30.0	37.1	20.1	28.6	60	-4	19	22	75	70	0.121	0.132	3.86	1.23	5.5	5.0	5.4
March.....	29.901	30.375	29.291	37.9	41.6	50.8	32.3	41.6	79	16	28	30	67	64	0.158	0.168	1.32	0.60	5.2	4.5	4.9
April.....	29.788	30.224	29.388	48.0	60.6	60.5	41.3	50.9	74	31	40	42	75	74	0.256	0.278	1.64	0.81	6.2	5.7	5.6
May.....	29.788	30.224	29.280	54.7	56.1	64.7	48.2	56.4	75	38	46	45	74	70	0.320	0.311	2.90	0.87	6.5	5.6	6.6
June.....	29.750	30.099	29.397	68.3	65.6	73.0	55.4	65.2	91	44	54	54	74	69	0.433	0.436	3.98	1.07	5.4	6.2	6.0
July.....	29.732	30.031	29.459	71.8	72.7	82.4	63.7	73.6	92	55	62	61	73	69	0.560	0.559	2.83	1.15	4.7	3.4	4.1
August.....	29.919	30.209	29.499	66.1	67.6	76.5	59.2	67.8	84	47	59	60	80	78	0.517	0.533	2.62	0.65	5.4	4.9	5.0
September.....	29.932	30.175	29.670	60.0	61.7	70.9	53.6	62.2	80	41	54	54	80	78	0.430	0.440	2.68	1.43	5.7	5.1	5.2
October.....	29.821	30.292	29.297	51.5	54.3	63.3	45.3	54.3	81	27	45	45	78	72	0.320	0.328	1.60	0.51	6.7	3.6	4.4
November.....	29.595	30.209	29.237	36.9	39.9	46.0	33.5	39.8	68	21	31	33	73	75	0.181	0.193	3.37	1.55	8.7	5.2	6.6
December.....	29.829	30.564	29.172	22.9	27.1	33.7	18.4	26.0	53	3	17	19	76	71	0.104	0.111	2.53	1.20</			

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

PITTSBURGH, PA.

[H=842 ft.; h₁=353 ft.; h₂=345 ft.; h₃=410 ft.]

Month.	Wind.													Number of days.																	
	By self-register.				Number of winds, 8 a. m. and 8 p. m.									Precipitation.	Snow.	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.	T. or more.	0.01 inch or more, melted.	Hail.	Fog.	32° or below.	80° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	10.9	W.	46	W.	2	4	3	3	4	13	11	10	14	0	1	9	21	16	14	18	12	0	0	2	9	0	26	1	0	0	
February	11.7	NW.	59	NW.	0	3	3	2	2	12	6	9	19	0	0	0	0	10	10	15	10	0	0	0	10	0	24	0	0	0	
March	9.4	NW.	47	NW.	1	3	4	3	6	11	10	11	12	0	0	0	0	7	8	13	12	3	1	0	0	0	12	2	2	0	
April	11.2	NW.	46	W.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
May	11.0	NW.	37	NW.	0	6	1	4	4	4	14	10	22	0	0	0	0	12	5	13	13	9	0	0	0	0	0	0	0	0	
June	9.4	NW.	50	W.	1	5	10	3	2	4	11	20	0	0	0	0	0	15	13	8	5	0	0	0	0	1	0	0	0	0	
July	9.9	SW.	43	N.	1	7	6	5	4	1	18	11	10	0	0	0	0	12	17	2	9	6	0	0	0	0	0	0	0	0	
August	9.5	SW.	37	NW.	0	7	8	8	6	9	12	4	8	0	0	0	0	15	13	3	8	5	0	0	2	0	0	0	0	0	
September	8.7	SW.	39	NW.	0	11	6	6	8	4	14	3	8	0	0	0	0	11	11	8	10	9	0	0	0	0	0	0	0	0	0
October	10.9	NW.	35	NW.	1	3	2	10	7	5	11	13	11	0	0	0	0	19	4	8	9	6	1	0	2	2	1	1	0	0	
November	14.2	W.	42	NW.	1	4	1	3	8	0	5	23	16	0	0	0	0	1	1	23	17	6	0	0	0	0	18	0	0	0	
December	12.1	W.	48	NW.	1	3	1	6	8	2	13	14	15	0	0	0	0	5	7	19	19	16	0	0	5	14	0	0	0	0	
Year	10.7	NW.	50	W.	11	62	49	67	67	57	132	124	172	0	110	112	143	151	109	78	51	2	30	35	3	113	28	0	0	0	

POCATELLO, IDAHO.

[H=4,477 ft.; h₁=46 ft.; h₂=37 ft.; h₃=54 ft.]

January	8.1	SE.	40	SW.	1	6	1	3	12	4	15	10	11	0	3	12	16	9	7	18	9	0	0	0	19	0	31	0	0	0
February	9.7	SE.	42	SW.	2	1	0	0	14	6	15	12	8	0	4	13	7	5	5	1	1	0	0	0	0	0	25	0	0	0
March	8.2	SE.	34	SW.	0	0	0	1	3	28	8	10	9	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0
April	9.1	SE.	38	SW.	0	0	0	3	1	21	9	10	8	0	15	9	6	6	5	2	2	1	0	0	0	0	0	0	0	0
May	8.0	SE.	41	SW.	1	2	0	2	22	4	12	14	4	1	17	13	0	4	1	0	0	0	0	0	0	0	0	0	0	0
June	8.1	SE.	32	SW.	0	1	0	2	9	24	7	6	10	3	0	16	14	1	4	1	0	0	0	0	0	0	12	0	6	0
July	8.5	SE.	35	S.	0	1	0	2	9	24	7	6	10	3	0	16	14	1	4	1	0	0	0	0	0	0	0	0	0	0
August	8.4	SE.	34	SW.	0	1	0	5	23	5	6	19	3	0	24	7	0	0	0	0	0	0	0	0	0	6	1	2	0	
September	8.2	SE.	33	S.	0	1	0	3	25	4	8	13	5	1	19	7	4	3	0	0	0	0	0	0	0	0	0	1	5	0
October	8.8	SE.	36	SW.	0	1	0	3	23	7	14	8	6	0	18	10	3	10	6	0	0	0	0	0	0	0	0	7	0	0
November	9.6	SE.	33	SW.	0	1	0	1	21	8	16	10	3	0	5	8	17	9	5	5	3	0	0	0	1	0	16	0	0	
December	8.8	SE.	37	SW.	0	0	0	2	22	1	14	11	12	0	6	12	13	10	7	7	5	0	1	6	0	27	0	0	0	
Year	8.6	SE.	42	SW.	4	18	6	36	254	65	144	134	70	3	158	121	86	84	50	55	29	1	1	40	21	125	21	0	0	

POINT REYES LIGHT, CAL.

[H=490 ft.; h₁=7 ft.; h₂=3 ft.; h₃=18 ft.]

January	17.7	NW.	83	NW.	11	2	1	1	3	7	4	1	12	0	8	10	13	19	12	0	0	0	1	4	0	0	0	1	0	0
February	20.9	NW.	78	NW.	11	2	0	0	2	8	2	1	13	0	0	6	11	11	12	9	0	0	0	0	0	0	0	0	0	0
March	22.0	NW.	64	S.	13	3	0	0	0	12	0	0	13	2	10	6	17	10	10	0	0	0	0	0	0	0	0	0	0	0
April	23.2	NW.	79	NW.	14	3	0	0	0	0	1	19	0	0	11	8	12	2	2	1	0	0	0	0	10	0	0	0	0	
May	22.0	NW.	78	NW.	9	3	0	0	0	2	0	1	24	0	19	6	5	2	1	0	0	0	0	0	10	0	0	0	0	
June	32.0	NW.	78	NW.	16	3	0	0	0	5	0	1	23	0	6	5	20	0	0	0	0	0	0	24	0	0	0	0	0	
July	17.9	NW.	47	NW.	6	2	0	0	0	8	2	1	17	0	5	9	17	0	0	0	0	0	0	22	0	0	0	0	0	
August	18.5	NW.	64	NW.	7	3	0	0	0	8	2	1	23	0	6	5	20	0	0	0	0	0	0	24	0	0	0	0	0	
September	18.0	NW.	60	NW.	7	6	0	0	0	4	0	3	16	1	7	4	19	3	0	0	0	0	0	20	0	0	0	0	0	
October	18.7	N.	73	NW.	7	13	0	0	0	3	2	2	11	0	11	5	15	5	2	0	0	0	0	17	0	0	0	0	0	
November	15.7	NW.	54	NW.	7	2	1	0	1	7	2	1	16	0	5	9	16	10	4	0	0	0	0	12	0	0	0	0	0	
December	16.8	NW.	65	NW.	8	4	1	1	5	3	1	1	15	0	8	11	12	6	4	0	0	0	0	10	0	0	0	0	0	
Year	20.3	NW.	83	NW.	116	46	3	2	12	65	19	16	199	3	104	93	168	75	47	0	0	1	168	0	0	0	2	0	0	

PORT CRESCENT, WASH.

[H=259 ft.; h₁=8 ft.; h₂=4 ft.; h₃=53 ft.]

January	6.0	S.	46	NE.	1	0	2	4	8	6	3	5	2	1	1	12	18	21	17	6	4	0	2	0	0	23	0	0	0
February	6.1	SE.	24	NE.	0	0	2	10	6	4	4	1	1	0	2	13	13	16	13	9	8	0	0	0	2	0	0	0	
March	5.0	S.	17	SW.	0	0	11	0	2	2	0	4	10	0	2	19	10	16	13	1	1	0	3	0	0	0	0	0	
April	5.5	NW.	18	SW.	0	0	4	2	2	0	0	4	18	0	3	23	4	16	12	2	1	0	0	0	0	0	0	0	
May	5.3	NW.	16	NW.	0	0	1	0	1	0	0	1	20	0	4	22	4	7	6	0	0	0	0	0	0	0	0	0	
June	5.1	NW.	18	NW.	0	0	1	0	0	0	0	13	18	0	13	17	1	0	0	0	0	0	0	0	0	1	0	0	
July	5.6	NW.	16	NW.	0	0	1	0	0	0	1	8	19	0	9	18	4	4	2	0	0	0	0	8	0	0	0	0	
August	5.1	NW.	17	NW.	0	0	3	0	4	1	1	10	10	0	8	16	6	9	8	0	0	0	0	7	0	0	0	0	
September	4.7	S.	16	S.	0	0	3	2	6	4	4	5	3	1	0	16	15	18	13	0	0	0	4	0	0	2	0		
October	4.3	S.	16	S.	1	0	1	5	3	16	3	2	0	0	0	11	19	19	15	0	0								

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

PORT HURON, MICH.

[H=638 ft.; h₁=70 ft.; h₂=63 ft.; h₃=120 ft.]

Month.	Wind.											Number of days.																									
	By self-register.					North of winds, 8 a. m. and 8 p. m.						Precipitation.	Snow.	Maximum temp.	33° or below.	90° or above.	Minimum temperature 33° or below.	Thunderstorms.	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.	T. or more.	0.01 inch or more, melted.	Hail.	Fog.	33° or below.	90° or above.	Minimum temperature 33° or below.	Thunderstorms.	Auroras.	
January	12.7	NW.	48	NW.	2	4	1	5	2	11	12	8	16	1	3	5	23	16	12	17	12	0	0	20	0	31	0	0	0	0	0	0	0	0			
February	12.9	SW.	41	W.	2	4	7	2	3	10	12	7	11	0	0	0	14	10	7	15	8	0	0	17	0	28	0	0	0	0	0	0	0	0			
March	11.7	SW.	45	NW.	1	1	3	3	4	16	7	14	7	1	9	10	12	4	2	3	2	0	0	0	0	15	1	1	0	0	0	0	0	0			
April	11.8	N.	36	N.	0	16	9	5	9	11	5	1	3	0	1	7	20	16	9	1	0	0	0	0	0	5	4	2	2	4	1	0	0	0			
May	11.3	N.	37	S.	0	13	9	3	6	6	6	8	10	0	0	9	13	11	8	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0		
June	7.9	NE.	30	NE.	0	16	16	4	0	0	0	1	1	1	13	5	12	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
July	9.6	SW.	50	NW.	1	4	15	3	3	11	14	8	8	1	15	9	10	6	5	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		
August	9.4	SW.	33	NW.	0	4	14	4	3	11	14	8	7	1	4	11	16	10	6	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
September	8.9	NE.	27	N.	0	7	7	4	10	9	8	7	7	1	15	5	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
October	11.6	SW.	38	NW.	0	3	5	4	6	10	15	7	12	0	0	6	13	6	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
November	12.5	SW.	38	NW.	0	2	3	3	2	2	8	4	19	0	0	2	28	15	10	15	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December	12.6	SW.	37	N.	0	4	3	6	0	10	11	12	16	0	5	7	13	11	22	13	0	0	1	22	0	0	0	0	0	0	0	0	0	0	0	0	
Year..	11.1	NW.	50	NW.	6	80	96	50	45	114	116	101	123	5	100	78	187	127	86	74	44	1	13	60	4	156	27	2	0	0	0	0	0	0	0		

PORTLAND, ME.

[H=103 ft.; h₁=81 ft.; h₂=73 ft.; h₃=117 ft.]

January	9.5	N.	43	SE.	2	15	4	0	4	6	14	6	12	1	10	8	13	11	8	12	7	0	1	11	0	27	0	0	0	0	0	0	0	0			
February	10.7	N.	32	NE.	0	12	3	0	3	7	7	10	14	0	9	9	10	12	10	5	8	0	1	15	0	27	0	0	0	0	0	0	0	0	0		
March	9.2	S.	32	S.	0	8	4	3	2	14	15	6	10	0	15	11	5	7	4	2	0	1	1	2	0	20	1	0	0	0	0	0	0	0	0		
April	9.0	NW.	38	SE.	0	9	7	10	5	8	4	4	13	0	12	4	14	14	11	2	0	0	1	7	0	0	1	0	0	0	0	0	0	0	0	0	
May	9.0	S.	34	NW.	0	13	5	3	4	17	8	3	8	1	4	10	17	14	10	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
June	8.8	W.	30	E.	0	7	11	2	2	7	11	10	9	1	5	14	11	15	11	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
July	8.1	S.	32	NW.	0	6	1	1	3	16	11	15	8	0	12	13	6	7	6	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
August	8.4	S.	36	W.	0	3	5	5	5	14	13	9	8	0	12	11	8	8	6	0	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0
September	7.8	N.	28	NW.	0	16	1	2	5	14	5	7	10	0	11	10	11	12	9	8	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
October	9.8	NW.	48	NW.	1	8	3	0	2	7	13	9	19	0	11	8	12	9	7	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
November	9.7	W.	36	N.	0	16	3	0	2	13	6	15	16	0	9	8	13	9	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December	9.4	NW.	42	NW.	1	15	0	1	0	3	11	10	22	0	10	6	15	11	7	12	7	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0
Year..	9.1	NW.	48	NW.	4	128	47	28	37	116	118	104	148	4	118	112	135	129	96	40	26	2	32	46	2	120	17	4	0	0	0	0	0	0	0	0	

PORTLAND, OREG.

[H=153 ft.; h₁=68 ft.; h₂=63 ft.; h₃=106 ft.]

January	6.9	S.	34	S.	0	5	4	12	9	16	5	1	7	3	2	5	24	22	17	10	4	0	1	2	0	13	0	0	0	0	0	0	0	0	0		
February	7.1	E.	28	SW.	0	3	2	14	11	5	12	2	7	0	4	3	21	20	18	5	3	0	2	1	0	0	7	0	0	0	0	0	0	0	0	0	
March	5.3	NW.	26	SW.	0	12	3	1	4	11	8	4	19	0	10	13	8	13	10	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
April	5.6	NW.	28	SW.	0	9	2	3	5	3	14	4	20	0	7	9	14	12	10	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
May	5.7	NW.	23	SW.	0	6	0	1	10	11	5	5	24	0	12	8	11	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
June	6.0	NW.	30	SW.	0	8	1	1	5	6	8	11	20	0	8	16	6	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July	7.0	NW.	19	NW.	0	23	1	2	1	4	1	0	29	1	18	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
August	6.1	NW.	32	NE.	0	13	3	2	2	6	1	1	32	2	11	16	4	2	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
September	5.4	NW.	25	NE.	0	8	2	2	7	12	3	4	22	0	5	12	13	7	5	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
October	6.7	NW.	30	S.	0	2	2	3	7	12	12	3	19	2	3	11	17	13	11	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November	6.8	SE.	38	SW.	0	4	4	7	15	13	6	3	6	0	1	3	26	20	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December	5.9	SE.	30	S.	0	4	1	6	15	13	13	2	7	1	2	7	22	18	14	0	0	1	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Year..	6.2	NW.	38	SW.	0	97	25	54	91	112	90	40	212	9	83	115	167	143	117	15	7	2	22	3	6	21	6	0	0	0	0	0	0	0	0	0	0

PROVIDENCE, R. I.

[H=160 ft.; h₁=141 ft.; h₂=134 ft.; h₃=165 ft.]

January	10.6	NW.	52	SE.	3	7	6	0	8	6	10	5	20	0	9	6	16	17	13	12	8	0	1	8
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MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

PUEBLO, COLO.

[φ=38° 18' N.; λ=104° 36' W.]

Month.	Pressure.			Temperature.							Moisture.										
	Monthly mean.	Extremes.		Mean.					Extremes.	Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.					
		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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
January.....	25.286	25.757	24.947	25.1	36.1	44.6	19.9	32.2	68	- 8	16	22	70	59	0.095	0.120	0.13	0.12	1.0	3.2	3.3
February.....	25.259	25.600	24.735	21.8	37.4	45.2	15.9	30.6	70	-17	12	18	68	47	.078	.098	.52	.30	3.6	3.5	3.5
March.....	25.316	25.576	24.754	37.2	62.6	68.0	34.5	51.2	81	24	23	24	57	24	.122	.126	.05	.05	2.4	1.9	1.9
April.....	25.285	25.585	24.794	40.3	62.9	68.1	38.5	53.3	82	22	27	28	60	29	.150	.159	1.42	1.08	2.8	4.4	3.6
May.....	25.302	25.603	24.904	47.1	66.6	71.1	45.3	58.2	89	33	40	39	77	40	.249	.243	1.03	.50	4.6	4.7	4.5
June.....	25.265	25.562	24.886	57.6	81.1	85.8	55.7	70.8	97	46	44	40	63	27	.296	.261	1.17	.42	2.5	5.3	3.5
July.....	25.333	25.493	25.117	63.4	84.0	90.3	60.0	75.4	99	58	50	46	64	30	.374	.324	1.94	.92	2.9	6.9	3.8
August.....	25.363	25.713	25.161	53.0	76.6	85.3	57.1	71.2	97	39	51	46	75	44	.386	.384	1.22	1.22	2.9	3.2	4.4
September.....	25.348	25.669	25.007	53.0	75.7	82.6	51.5	67.0	95	38	43	43	71	34	.289	.283	1.10	.40	2.4	3.2	3.8
October.....	25.345	25.716	24.995	39.9	63.6	72.9	36.3	54.6	88	18	24	29	54	30	.129	.169	.06	.03	2.4	2.5	2.5
November.....	25.287	25.646	24.937	35.5	51.6	60.4	29.5	45.0	78	16	22	24	63	40	.120	.131	.53	.23	4.3	4.0	4.6
December.....	25.311	25.678	24.798	25.0	39.5	48.6	20.2	34.4	67	9	17	22	70	49	.091	.116	.15	.15	1.3	2.3	2.7
Year.....	25.309	25.757	24.735	42.1	61.5	68.6	38.8	53.7	90	-17	31	32	66	38	.198	.201	9.56	1.22	2.8	4.2	3.4

RALEIGH, N. C.

[φ=35° 45' N.; λ=78° 37' W.]

January.....	29.743	30.325	28.928	36.5	44.0	51.5	32.4	42.0	71	22	29	29	74	57	0.174	0.173	4.05	1.10	5.2	4.4	5.0
February.....	29.709	30.225	29.294	34.4	44.6	51.3	32.0	41.6	74	18	27	31	72	62	.164	.206	2.80	.76	4.4	4.7	4.4
March.....	29.700	30.007	29.282	49.3	60.6	68.4	46.7	57.6	83	29	40	40	74	50	.274	.270	1.01	.58	3.2	2.2	3.3
April.....	29.545	29.842	29.302	54.8	64.0	71.5	50.5	61.0	88	36	44	44	68	52	.302	.303	5.01	2.63	4.4	3.6	4.2
May.....	29.631	30.009	29.236	62.5	68.7	77.2	56.3	66.8	90	42	51	49	69	53	.395	.372	3.92	1.87	4.1	4.3	4.7
June.....	29.571	29.829	29.261	69.4	73.6	82.2	63.9	73.0	92	49	61	61	76	68	.556	.566	7.87	2.03	5.1	6.0	5.6
July.....	29.682	29.807	29.237	73.7	77.6	87.1	69.5	78.3	94	60	68	69	82	75	.686	.705	5.65	2.53	5.5	5.9	5.0
August.....	29.640	29.830	29.469	71.0	75.6	85.4	68.1	76.2	92	63	69	68	80	73	.674	.686	7.75	2.29	4.5	6.0	6.4
September.....	29.687	29.856	29.510	67.3	73.5	82.2	64.5	73.4	92	51	62	63	85	72	.579	.597	1.19	.35	5.0	3.9	4.9
October.....	29.658	30.122	29.227	57.3	64.7	74.0	53.6	63.8	86	30	52	52	82	64	.416	.420	3.54	1.47	3.8	1.6	3.5
November.....	29.552	29.916	29.196	39.3	47.6	55.9	36.5	46.2	72	29	29	30	66	50	.163	.167	3.69	.40	3.2	2.4	3.2
December.....	29.726	30.256	29.110	31.9	40.0	46.8	29.0	37.9	65	20	24	25	72	55	.142	.144	3.65	1.60	4.0	2.7	3.8
Year.....	29.650	30.325	28.928	54.0	61.2	69.4	50.2	59.8	94	18	46	47	76	61	.377	.384	47.13	2.63	4.5	4.0	4.6

RAPID CITY, S. DAK.

[φ=44° 4' N.; λ=103° 12' W.]

January.....	26.589	27.082	26.106	22.3	26.7	37.3	15.2	26.2	61	-16	14	16	69	66	0.081	0.097	0.89	0.21	4.9	3.8	4.5
February.....	26.619	26.994	26.001	13.9	20.9	30.9	8.0	19.4	58	-17	6	12	69	70	.061	.063	1.14	.07	3.4	4.1	4.3
March.....	26.603	26.937	25.998	40.1	55.8	62.6	35.3	49.0	85	22	25	29	56	39	.135	.160	1.73	.72	3.6	3.7	3.7
April.....	26.567	26.943	25.990	42.3	60.8	65.2	38.3	51.7	90	30	28	29	58	34	.157	.166	1.74	.45	4.2	3.5	4.2
May.....	26.635	26.939	26.262	46.4	59.5	62.9	41.5	52.2	97	29	36	38	70	50	.219	.237	2.76	.96	5.6	5.1	5.0
June.....	26.554	26.836	26.253	60.2	75.0	80.9	54.8	67.8	98	40	47	46	62	37	.324	.313	3.92	.35	4.5	5.5	4.6
July.....	26.600	26.777	26.288	65.8	81.0	86.5	60.2	73.4	101	45	50	49	58	36	.339	.351	5.76	2.77	4.5	6.0	4.8
August.....	26.632	26.979	26.300	58.2	73.6	80.1	53.8	67.0	95	39	45	45	64	38	.309	.313	3.99	.46	4.5	2.8	4.7
September.....	26.654	27.076	26.202	51.5	64.9	71.3	47.9	59.6	95	30	42	44	71	52	.271	.298	1.79	1.57	5.9	5.1	5.1
October.....	26.607	27.018	26.076	46.4	55.2	65.9	41.1	54.0	88	21	30	32	54	43	.174	.183	1.41	.24	3.9	3.4	4.1
November.....	26.596	27.090	26.139	28.6	36.3	43.9	23.9	33.9	68	11	22	24	75	60	.115	.123	.45	.20	6.5	4.8	7.5
December.....	26.610	26.926	26.176	26.3	30.8	40.5	20.0	30.2	57	- 3	17	19	67	61	.090	.100	.21	.11	4.0	4.3	6.2
Year.....	26.605	27.090	25.990	41.8	53.4	60.8	36.7	48.7	101	-17	30	32	64	49	.192	.202	16.39	2.77	4.5	4.3	4.9

RED BLUFF, CAL.

[φ=40° 10' N.; λ=122° 15' W.]

January.....	29.800	30.219	29.241	38.4	45.7	47.4	36.3	41.8	60	26	35	39	89	78	0.211	0.244	2.99	0.59	6.0	7.0	7.3
February.....	29.646	30.063	29.485	41.8	52.2	53.5	39.9	46.7	64	30	37	40	82	67	.226	.260	1.96	.73	3.9	6.6	6.3
March.....	29.663	29.976	29.437	49.5	65.8	67.5	47.9	57.7	80	37	43	48	81	56	.284	.342	3.36	1.36	3.2	4.5	4.3
April.....	29.672	29.960	29.429	52.3	72.7	74.6	51.5	63.0	92	43	45	46	77	41	.301	.313	1.15	.15	2.6	3.7	3.1
May.....	29.636	29.760	29.355	57.9	81.7	83.1	56.9	70.0	106	43	47	51	70	38	.325	.395	.74	.65	2.4	3.2	2.6
June.....	29.535	29.788	29.230	60.6	85.7	86.9	60.1	73.5	106	52	44	41	56	22	.288	.267	.12	.10	2.2	1.6	1.9
July.....	29.494	29.689	29.250	67.4	95.5	97.5	66.5	82.0	111	54	47	42	50	16	.330	.277	0	0	0.3	0.8	0.6
August.....	29.511	29.729	29.312	65.3	96.3	97.0	63.7	80.4	105	57	37	35	37	12	.228	.202	0	0	0.0	0.1	0.0
September.....	29.542	29.729	29.317	59.1	83.7	84.6	57.5	71.0	96	49	43	41	57	25	.282	.273	.41	.37	1.8	1.4	1.4
October.....	29.637	29.900	29.344	55.0	77.1	78.9	53.8	66.4	92	45	42	48	63	39	.375	.334	.30	.21	1.6	2.3	2.3
November.....	29.703	29.939	29.387	47.2	59.4	62.3	45.0	53.6	77	35	42	46	83	65	.273	.319	2.78	1.64	5.4	6.2	5.7
December.....	29.815	29.978	29.604	43.0	54.5	57.3	41.1	49.2	67	32	38	40	85	63	.230	.260	1.78	.68	3.6	4.9	4.7
Year.....	29.655	30.219	29.280	53.2	72.6	74.2	51.7	62.9	111	26	42	43	69	44	.272	.290	14.59	1.64	2.8	3.5	3.3

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

RENO, NEV.

[$\phi=39^{\circ} 32' N.$; $\lambda=119^{\circ} 49' W.$]

Month.	Pressure.			Temperature.							Moisture.										
	Monthly mean.	Extremes.		Mean.			Extremes.		Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.						
		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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	%	%	In.	In.	In.	In.	8 a. m.	8 p. m.	Daylight.		
January.....	25.496	25.874	24.865	19.8	30.5	34.9	14.7	24.8	54	-6	17	21	88	68	0.068	0.112	0.98	0.29	5.5	4.8	5.6
February.....	25.538	25.781	25.119	27.0	40.9	44.7	24.2	34.4	64	4	22	24	79	50	0.118	0.128	1.16	0.10	4.0	5.2	4.8
March.....	25.488	25.847	25.076	36.0	57.9	61.9	33.4	47.6	71	24	29	27	73	33	0.156	0.145	0.22	0.14	2.9	4.8	4.5
April.....	25.496	25.731	25.232	40.9	64.0	68.6	38.3	53.4	85	24	27	25	57	24	0.146	0.133	0.14	0.14	2.1	2.7	3.4
May.....	25.495	25.639	25.284	45.3	71.4	75.5	43.9	59.7	98	28	31	29	58	22	0.174	0.158	0.17	T.	2.1	2.7	2.6
June.....	25.425	25.591	25.201	48.3	80.1	83.5	50.1	63.8	98	37	30	27	50	17	0.169	0.147	0.05	0.05	1.9	2.0	1.7
July.....	25.462	25.623	25.273	57.0	89.5	92.5	56.0	72.8	97	40	41	39	45	24	0.265	0.252	1.45	1.20	2.9	2.5	2.1
August.....	25.491	25.593	25.317	52.1	85.3	88.9	50.7	69.8	96	41	31	28	44	13	0.171	0.151	0	0	3	3	5
September.....	25.452	25.654	25.240	47.3	73.7	77.8	45.2	61.5	88	35	34	32	63	24	0.205	0.192	0.28	0.25	1.8	1.3	1.6
October.....	25.534	25.721	25.069	39.9	63.5	68.7	37.8	53.2	84	29	33	34	78	35	0.163	0.198	0.71	0.48	2.1	3.2	2.6
November.....	25.485	25.700	25.165	37.3	51.5	57.3	33.4	45.4	72	23	29	29	73	44	0.160	0.164	0.54	0.46	4.5	5.4	5.1
December.....	25.574	25.763	25.349	30.9	40.9	46.5	27.6	37.0	64	13	27	30	86	67	0.147	0.170	1.44	0.74	3.1	5.6	5.8
Year.....	25.496	25.874	24.866	40.2	61.6	66.2	37.7	52.0	98	-6	29	29	67	35	0.167	0.162	5.97	1.20	2.8	3.4	3.4

RICHMOND, VA.

[$\phi=37^{\circ} 32' N.$; $\lambda=77^{\circ} 27' W.$]

January.....	29.988	30.600	29.190	33.4	47.5	30.6	39.0	70	20	30	85	0.173	3.38	0.09	6.2	6.2	6.2	6.2
February.....	30.032	30.537	29.550	32.3	49.1	29.6	39.4	75	10	27	81	0.101	2.38	1.79	5.5	5.1	5.1	5.1
March.....	29.952	30.006	29.614	46.7	65.7	42.1	53.9	91	24	40	80	0.266	1.42	0.45	3.6	3.9	3.9	3.9
April.....	29.796	30.137	29.510	52.9	70.1	46.8	68.4	88	35	45	77	0.316	8.74	5.33	4.4	5.2	5.2	5.2
May.....	29.873	30.291	29.447	60.6	74.9	52.6	63.8	88	41	51	73	0.400	2.67	0.94	4.9	4.9	4.9	4.9
June.....	29.788	30.100	29.450	67.5	79.2	61.4	70.3	92	48	60	78	0.538	5.67	1.94	6.6	6.7	6.7	6.7
July.....	29.804	30.022	29.557	74.4	87.1	68.5	77.8	92	58	70	69	0.445	2.41	0.47	7.3	7.3	7.3	7.3
August.....	29.903	30.090	29.716	71.4	82.8	66.3	74.6	92	61	67	68	0.684	2.90	0.63	7.1	7.1	7.1	7.1
September.....	29.945	30.134	29.778	67.2	81.0	62.5	71.8	93	48	63	87	0.587	1.07	0.60	6.0	5.6	5.6	5.6
October.....	29.911	30.356	29.504	55.4	72.0	50.0	61.0	87	31	51	86	0.402	5.03	2.14	4.3	4.2	4.2	4.2
November.....	29.794	30.194	29.546	36.6	52.0	32.8	42.4	70	24	31	80	0.173	0.98	0.05	4.8	5.5	5.5	5.5
December.....	29.965	30.577	29.342	28.9	42.7	25.5	34.1	68	14	24	81	0.135	2.50	1.15	6.1	6.2	6.2	6.2
Year.....	29.897	30.600	29.190	52.3	67.0	47.4	57.2	93	10	47	82	0.378	43.14	5.33	5.4	5.5	5.5	5.5

ROCHESTER, N. Y.

[$\phi=43^{\circ} 8' N.$; $\lambda=77^{\circ} 42' W.$]

January.....	29.499	30.255	28.464	24.4	32.1	19.6	25.8	45	-1	18	21	76	77	0.104	0.117	3.01	0.73	8.8	8.7	8.7	
February.....	29.524	30.011	29.059	19.5	22.6	29.6	14.7	22.2	48	-2	15	16	81	74	0.094	0.096	3.73	0.87	6.8	7.1	6.9
March.....	29.474	29.770	28.924	38.3	41.3	50.3	32.6	41.4	81	16	28	20	67	62	0.163	0.170	3.73	0.28	5.4	3.0	4.6
April.....	29.360	29.748	28.890	46.4	49.0	58.5	40.9	49.7	83	29	36	36	68	66	0.223	0.227	3.10	1.13	5.6	4.7	5.7
May.....	29.422	29.858	28.953	51.6	53.7	62.5	45.6	54.0	80	34	40	45	66	69	0.204	0.206	2.75	0.88	6.0	5.8	6.0
June.....	29.389	29.980	28.998	62.2	66.0	73.3	55.9	64.6	89	43	51	52	69	63	0.394	0.404	1.32	0.57	5.8	5.4	5.2
July.....	29.365	29.650	29.123	68.0	72.7	81.9	62.1	72.0	94	54	58	58	72	61	0.493	0.494	3.43	3.0	4.1	3.4	3.4
August.....	29.473	29.727	29.077	64.9	69.8	78.5	59.7	68.1	89	49	57	57	75	65	0.487	0.479	3.10	2.45	4.3	5.4	5.1
September.....	29.533	29.805	29.219	58.0	61.1	70.0	53.3	61.6	82	44	52	53	82	76	0.404	0.423	5.18	1.81	5.6	4.5	5.2
October.....	29.436	29.877	28.751	49.2	52.0	61.3	44.3	52.8	81	30	42	43	77	73	0.287	0.283	2.95	1.12	6.0	4.8	5.4
November.....	29.261	29.717	28.923	34.6	35.9	39.6	31.9	35.8	64	26	29	29	79	77	0.159	0.161	3.07	0.87	9.1	8.6	9.5
December.....	29.470	30.073	28.797	21.3	23.3	28.6	16.3	22.4	39	0	16	17	80	74	0.093	0.096	3.15	0.83	8.6	7.2	8.3
Year.....	29.436	30.255	28.464	44.9	47.9	55.5	39.7	47.6	94	-2	27	33	74	70	0.262	0.271	35.52	2.45	6.2	5.8	6.2

ROSEBURG, OREG.

[$\phi=43^{\circ} 13' N.$; $\lambda=123^{\circ} 20' W.$]

January.....	29.831	30.052	28.750	35.9	42.7	45.9	32.4	39.2	63	16	33	36	89	77	0.193	0.216	3.78	0.64	5.8	7.8	6.8
February.....	29.610	29.964	29.100	38.5	47.2	49.8	35.8	42.8	69	22	35	35	89	71	0.210	0.230	2.44	0.53	8.0	6.9	7.0
March.....	29.547	29.936	29.147	43.2	60.7	62.9	40.5	51.7	76	31	41	43	93	54	0.263	0.284	2.00	0.99	6.9	4.6	5.1
April.....	29.548	29.883	29.075	43.2	63.8	66.8	41.6	54.2	92	32	40	44	90	52	0.255	0.288	1.73	0.52	4.6	3.6	4.6
May.....	29.639	29.854	29.267	47.6	71.8	74.0	46.2	60.1	91	38	45	50	91	48	0.299	0.357	2.01	1.80	5.2	5.3	5.1
June.....	29.516	29.783	29.316	48.4	68.7	72.3	47.2	64.8	94	39	44	46	86	45	0.301	0.312	1.90	0.48	5.7	4.2	4.3
July.....	29.451	29.627	29.172	53.3	83.3	84.5	52.5	65.6	95	45	49	50	85	33	0.347	0.366	0.03	0.08	5.7	4.6	1.4
August.....	29.523	29.699	29.263	48.7	79.3	80.8	47.3	64.0	91	40	46	48	91	35	0.312	0.342	0	0	1.8	3	3
September.....	29.485	29.711	29.241	47.8	71.6	73.2	45.9	59.6	84	38	46	53	95	56	0.319	0.412	0.89	0.54	4.2	2.7	4.0
October.....	29.549	29.833	29.182	47.6	62.2	64.3	43.6	54.0	79	35	46	49	95	64	0.318	0.345	2.71	1.67	5.3	3.5	5.3
November.....	29.497	29.802	29.222	43.3	49.9	52.8	39.0	45.9	67	28	41	44	94	83	0.264	0.297	9.19	3.06	8.7	7.0	8.1
December.....	29.648	29.881	29.212	40.9	46.0	48.5	38.2	43.4	60	31	40	42	95	86	0.245	0.270	3.10	1.29	8.7	7.8	7.9
Year.....	29.537	30.052	28.750	44.9	62.3	64.6	42.5	53.6	98	16	42	45	91	59	0.276	0.310	29.97	3.06	5.7	4.5	4.9

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

PUEBLO, COLO.

[H=4,685 ft.; h₁=80 ft.; h₂=72 ft.; h₃=86 ft.]

Month.	Wind.													Number of days.																											
	By self-register.				Number of winds, 8 a. m. and 8 p. m.									Precipitation.	Snow.		Fog.	Maximum temp.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Electricity.																		
	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.		Clear.	Partly cloudy.								Cloudy.	0.01 inch and over.	0.04 inch and over.	T. or more.	0.01 inch or more, melted.	Hail.												
January	7.7	NW	48	NW	2	7	5	6	10	1	4	10	19	0	16	12	3	2	1	7	2	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0					
February	7.7	NW	44	W	0	6	5	5	10	3	3	6	8	0	15	11	2	4	1	3	9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
March	7.2	NW	44	W	0	4	3	5	14	1	6	12	17	0	24	6	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
April	7.6	NW	39	NE	0	13	6	4	9	1	3	5	19	0	16	9	5	6	3	3	5	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
May	7.2	SE	50	SE	0	15	7	9	14	1	2	4	9	1	12	11	8	10	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
June	7.2	SE	38	W	0	4	3	8	11	1	4	8	19	2	16	12	2	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
July	7.2	SE	40	NW	1	11	4	9	12	2	2	4	18	0	13	15	3	6	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
August	6.6	SE	49	N	2	11	2	9	14	1	4	1	20	0	12	17	2	11	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
September	6.3	SE	39	N	0	7	4	9	14	0	1	8	17	0	18	11	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
October	6.1	NW	32	W	0	7	4	11	11	2	1	9	17	0	21	8	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November	6.3	NW	35	W	0	6	6	6	16	1	1	15	9	0	15	9	6	6	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December	5.8	NW	47	NW	1	10	8	4	6	1	1	11	21	0	21	7	3	1	1	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Year	7.0	NW	49	N	10	101	57	83	141	15	35	95	200	3	199	128	38	56	33	30	15	2	0	10	49	131	48	0	0	0	0	0	0	0	0	0	0	0	0	0	

RALEIGH, N. C.

[H=376 ft.; h₁=103 ft.; h₂=94 ft.; h₃=110 ft.]

January	9.5	SW	42	W	1	7	13	3	3	4	17	8	7	0	13	7	11	12	9	2	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
February	10.6	SW	36	SW	0	9	13	2	2	2	15	4	9	0	15	4	9	12	8	2	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March	8.3	SW	26	W	0	6	13	8	2	5	16	7	5	0	17	9	5	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
April	8.6	SW	31	SW	0	9	8	3	3	6	13	11	5	0	13	10	7	13	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	8.2	SW	39	SW	0	4	13	6	4	1	18	9	7	0	15	11	5	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
June	7.3	SW	34	SW	0	5	8	3	3	5	21	8	7	0	8	16	8	13	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July	8.1	SW	30	NW	0	3	8	4	3	2	17	20	5	0	8	12	11	12	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
August	6.2	NE	32	N	0	4	15	8	12	9	9	4	1	0	6	14	11	16	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September	6.0	NE	24	SE	0	6	20	3	8	3	9	9	2	0	10	13	7	10	5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
October	7.7	NE	30	SW	0	11	13	7	2	3	9	7	10	0	15	12	4	6	4	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November	7.8	NW	27	N	0	15	7	7	1	1	9	4	16	0	20	5	5	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December	8.0	NW	29	N	0	14	2	8	6	5	7	7	12	1	17	5	9	10	9	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Year	8.0	SW	42	W	1	93	133	62	49	46	162	96	86	1	155	118	92	124	95	8	4	0	6	1	26	66	55	0	0	0	0	0	0	0	0	0	0	0	0	

RAPID CITY, S. DAK.

[H=3,234 ft.; h₁=46 ft.; h₂=35 ft.; h₃=50 ft.]

January	6.8	W	33	W	0	4	6	5	7	0	0	29	10	1	10	17	4	11	9	13	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
February	6.9	W	40	N	1	8	3	8	8	3	1	14	11	1	12	13	3	4	1	9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
March	7.9	W	36	SW	2	8	4	8	4	3	3	26	7	1	16	12	3	4	4	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
April	10.0	NW	40	NW	1	7	4	3	6	5	7	17	11	0	12	18	5	4	3	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
May	8.2	SE	32	W	0	8	8	9	11	2	2	10	12	0	12	10	9	13	12	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
June	9.0	SE	39	SW	0	6	2	9	16	7	5	9	6	0	10	14	6	12	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
July	7.8	W	42	NW	1	5	3	5	11	3	7	17	9	2	11	11	9	11	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
August	6.9	W	34	N	0	11	3	4	12	5	3	17	5	2	10	16	5	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
September	7.2	N	32	W	0	11	0	5	12	6	2	14	8	2	11	10	9	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
October	8.1	W	33	W	0	7	2	2	1	5	6	25	11	3	16	7	8	6	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
November	5.2	W	23	W	0	10	3	5	6	3	2	23	7	1	4	6	20	7	4	6	2	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
December	6.8	W	28	NW	0	4	2	1	4	2	4	26	13	6	8	8	15	5	3	8																					

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

RENO, NEV.

[H=4,532 ft.; h₁=74 ft.; h₂=67 ft.; h₃=81 ft.]

Month.	Wind.											Number of days.																
	By self-register.				Number of winds, 8 a. m. and 8 p. m.							Precipitation.	Snow.	Maximum temp.	Elec- tricity.													
	Average hourly ve- locity.	Preval- ling direc- tion.	Maximum velocity.	Direction at time of maximum velocity.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.					Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	T. or more.	0.01 inch or more, melted.	Hail.	Fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	3.8	W.	32	SW.	0	3	6	6	4	14	8	14	6	1	9	13	9	6	13	8	0	0	1	12	0	30	0	0
February	6.0	W.	34	W.	0	2	3	2	3	14	10	16	6	0	9	15	6	1	13	2	0	1	3	0	22	0	0	
March	6.0	SW.	32	W.	0	4	5	4	4	5	3	12	0	0	12	11	4	2	12	3	0	0	0	0	14	0	0	
April	7.9	SW.	36	SW.	0	4	3	3	3	10	15	15	0	0	7	26	2	0	7	0	0	0	0	0	5	0	0	
May	7.4	SW.	44	SW.	1	3	3	3	3	10	15	15	0	0	0	26	2	0	0	0	0	0	0	0	1	0	0	
June	8.6	W.	34	W.	0	0	0	1	1	6	2	21	29	0	1	25	4	1	0	0	0	0	0	0	0	2	0	
July	6.4	W.	28	W.	0	2	0	2	7	1	24	24	0	0	0	24	5	2	0	0	0	0	0	20	0	6	0	
August	6.9	W.	29	W.	0	2	1	1	1	0	25	31	1	0	31	0	0	0	0	0	0	0	0	15	0	0	0	
September	6.4	W.	35	W.	0	2	3	1	2	4	21	23	3	1	25	3	3	3	1	1	1	0	0	0	0	1	0	
October	5.4	W.	43	W.	1	4	3	8	6	5	14	17	5	0	20	6	6	3	3	1	1	0	0	0	0	3	0	
November	6.2	W.	39	W.	0	3	4	3	3	5	17	21	3	1	18	8	8	3	3	1	1	0	0	0	14	0	0	
December	4.2	W.	38	W.	0	7	7	5	6	3	13	17	3	1	7	10	14	9	6	2	7	5	0	0	23	0	0	
Year	6.3	W.	44	SW.	2	36	38	39	58	62	219	236	37	5	208	97	60	44	26	34	18	0	7	15	41	112	10	0

RICHMOND, VA.

[H=144 ft.; h₁=11 ft.; h₂=3 ft.; h₃=52 ft.]

January	9.2	S.	35	SE.	0	15	1	2	4	16	11	2	11	0	5	15	11	12	11	3	3	0	1	1	0	21	0	0
February	10.6	SW.	40	NW.	1	8	10	2	2	9	10	2	8	0	7	13	8	10	6	3	3	0	0	2	0	20	0	0
March	7.6	S.	23	SW.	0	7	11	9	6	14	10	7	3	0	14	12	5	6	4	3	3	0	0	0	6	0	0	0
April	8.5	S.	36	SW.	0	2	3	4	4	18	16	5	6	0	6	20	4	4	13	0	0	1	0	0	0	6	0	0
May	8.1	S.	32	W.	0	10	10	3	5	12	11	3	3	0	8	20	8	15	13	0	0	0	0	0	0	0	0	0
June	6.7	SW.	32	NW.	0	3	10	1	13	10	16	0	0	0	7	7	15	9	13	0	0	0	0	0	14	0	0	
July	6.4	SW.	30	SW.	0	3	10	2	6	17	20	0	0	0	15	9	9	9	7	0	0	1	0	0	0	6	0	
August	6.5	NE.	26	NE.	0	3	21	5	11	7	5	3	4	3	1	15	15	14	9	0	0	1	1	0	1	0	7	
September	5.9	NE.	27	NW.	0	10	13	3	11	9	11	0	3	0	7	12	11	9	6	0	0	0	0	2	2	3	0	
October	7.5	S.	36	SW.	0	9	11	2	3	15	11	1	8	2	13	12	6	10	9	0	0	1	0	0	0	2	2	
November	8.1	NW.	36	NW.	0	4	4	4	3	5	14	4	22	0	8	11	11	8	4	0	0	0	0	0	13	0	0	
December	7.7	SE.	33	SW.	0	6	7	3	11	8	10	4	10	3	5	16	10	9	7	6	2	0	0	2	0	29	0	
Year	7.7	S.	40	NW.	1	80	111	40	81	140	145	31	89	13	88	169	108	127	100	15	9	3	2	5	22	91	33	0

ROCHESTER, N. Y.

[H=523 ft.; h₁=86 ft.; h₂=77 ft.; h₃=102 ft.]

January	9.1	W.	41	SW.	1	1	3	4	7	11	14	15	7	0	0	9	22	16	10	20	12	0	0	16	0	0	0	0
February	10.0	W.	34	W.	0	2	2	4	4	5	19	15	5	0	5	9	14	18	12	20	15	0	1	17	0	0	26	0
March	8.9	W.	45	W.	1	1	2	3	3	4	20	16	6	2	15	7	9	7	4	9	4	0	0	4	0	15	2	
April	7.5	W.	32	W.	0	3	7	7	10	4	7	14	5	3	10	8	12	16	10	3	7	2	0	0	0	3	2	
May	7.6	W.	36	SW.	0	4	3	3	2	8	9	21	8	4	9	7	15	18	13	0	0	0	0	0	0	0	4	
June	6.7	W.	24	SW.	0	2	3	7	3	0	18	18	3	6	12	6	12	7	6	0	0	0	0	0	0	0	3	
July	6.8	W.	27	W.	0	7	6	2	2	4	16	17	6	2	17	9	5	10	7	0	0	0	0	0	0	0	8	
August	6.4	SW.	30	W.	0	3	2	7	4	9	26	9	3	5	12	10	9	11	8	0	0	0	0	0	0	0	0	
September	6.5	SW.	25	W.	0	3	7	9	3	6	14	12	4	2	13	5	12	11	8	0	0	0	0	0	0	0	2	
October	8.7	SW.	40	SW.	2	1	4	2	3	12	22	9	9	0	9	11	11	10	8	2	1	0	0	0	0	2	1	
November	9.9	W.	39	W.	0	6	2	2	3	6	6	26	6	0	2	23	19	14	19	14	19	0	0	0	0	18	0	
December	9.5	W.	33	W.	0	4	2	3	3	9	19	14	8	0	3	5	23	20	14	27	19	0	0	20	0	31	0	
Year	8.1	W.	45	W.	4	37	43	53	47	78	184	194	70	24	105	88	172	163	115	100	67	0	2	57	3	124	30	1

ROSEBURG, OREG.

[H=510 ft.; h₁=9 ft.; h₂=4 ft.; h₃=57 ft.]

January	3.0	S.	26	SW.	0	6	9	7	13	18	2	1	6	0	4	11	16	18	13	2	1	0	1	0	0	17	0
February	3.0	S.	27	SW.	0	3	3	3	6	9	7	6	12	4	1	14	13	17	13	3	3	0	2	0	0	5	0
March	2.9	NW.	17	SW.	0	8	2	0	8	6	11	6	21	3	5	22	4	12	6	9	0	1	4	0	0	3	1
April	3.2	NW.	36	SW.	0	10	8	4	2	6	3	4	22	1	11	13	6	11	7	0	0	1	1	0	0	2	0
May	3.8	NW.	27	SE.	0	11	8	3	3	3	4	2	25	3	16	12	3	6	6	0	0	1	0	0	2	0	
June	4.3	NW.	22	SW.	0	18	9	1	0	2	4	3	18	5	10	14	6	8	3	0	0	0	0	0	0	0	1
July	4.4	N.	23	NW.	0	30	5	3	0	0	0	1	18	5	26	4	1	1	0	0	0	0	0	0	6	0	
August	4.0	NW.	24	N.	0	20	5	0	0	1	1	3	18	14	29	2	0	0	0	0	0	0	0	0	1	0	
September	2.9	N.	17	NW.	0	17	7	1	0	3	1	6	20	1	7	11	14	10	8	0	0	0	0	0	16	0	
October	2.5	NW.	17	W.	0	5	4	2	4	12	8	8	13	1	7	18	8	10	8	0	0	0	0	0	0	0	
November	2.8	S.	18	SE.	0	2	7	4	10	12	5	2	17	1	0	11	19	21	15	9	0	0	0	0	0	4	
December	2.2	S.	15	SW.	0	8	2	14	7	11	3	3	13	1	1	11	19	19	14	0	0	3	0	0	2	0	
Year	3.2	NW.	36	NW.	0	138	60	42	53	83	49	40	207	40	124	142	99	129	88	5	4	2	28	0	13	31	7

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

ROSWELL, N. MEX.

[$\phi=33^{\circ} 24' N.$; $\lambda=104^{\circ} 27' W.$]

Month.	Pressure.			Temperature.							Moisture.										
	Monthly mean.	Extremes.		Mean.			Extremes.		Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.						
		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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
January	26.440	26.872	26.152	29.1	50.9	58.5	26.4	42.4	80	2	22	25	76	42	0.125	0.141	0.10	0.05	4.3	4.4	4.9
February	26.388	26.846	25.903	26.1	54.4	60.6	22.6	41.6	81	1	19	21	74	30	0.102	0.115	0.11	0.11	2.2	2.3	4.3
March	26.407	26.690	26.014	40.4	71.3	76.1	38.4	57.2	89	28	29	30	64	24	0.162	0.172	0.05	0.05	1.9	4.6	3.7
April	26.353	26.668	25.953	43.6	73.4	77.8	41.7	59.8	93	27	30	30	60	22	0.171	0.173	0.08	0.06	2.8	3.7	3.4
May	26.333	26.633	26.038	53.2	79.5	83.1	52.2	67.6	94	38	40	41	65	29	0.263	0.264	0.15	0.08	5.4	4.3	4.3
June	26.307	26.638	26.000	62.4	88.6	92.7	61.6	77.2	104	53	50	49	66	28	0.379	0.355	0.75	0.31	3.2	4.1	3.8
July	26.333	26.537	26.078	65.8	90.5	95.9	65.3	80.5	102	60	55	54	69	30	0.449	0.419	1.07	1.07	3.9	4.8	4.9
August	26.351	26.613	26.116	65.5	83.9	90.6	64.3	77.5	99	52	59	60	69	46	0.507	0.518	2.03	1.61	3.9	5.5	5.3
September	26.408	26.659	26.116	58.8	80.1	87.1	57.9	72.5	96	49	53	54	82	43	0.408	0.420	0.44	0.34	3.6	2.5	3.5
October	26.436	26.885	26.104	42.6	64.9	74.8	39.9	57.4	90	24	35	40	74	42	0.208	0.249	0.36	0.24	2.2	2.1	2.6
November	26.395	26.757	26.166	36.5	57.5	66.4	33.7	50.0	82	24	30	33	77	42	0.166	0.187	0.22	0.22	3.3	3.6	4.2
December	26.439	26.744	26.005	29.5	48.9	57.3	26.3	41.8	77	10	22	25	74	41	0.115	0.136	0.01	0.01	4.5	5.0	5.4
Year	26.385	26.835	25.953	46.1	70.3	76.7	44.2	64.6	104	1	37	38	72	35	0.254	0.262	4.87	1.01	3.5	4.2	4.1

SACRAMENTO, CAL.

[$\phi=38^{\circ} 35' N.$; $\lambda=121^{\circ} 30' W.$]

January	30.090	30.460	29.549	39.6	47.3	49.0	37.5	43.2	59	28	37	39	90	74	0.222	0.239	1.48	1.04	4.5	5.0	6.0
February	30.127	30.290	29.813	43.6	54.2	55.0	41.2	48.1	68	34	39	38	84	56	0.242	0.239	0.83	0.23	2.9	5.3	5.0
March	29.971	30.238	29.708	50.2	64.6	65.8	48.2	57.0	77	42	47	49	88	59	0.321	0.347	3.06	1.37	3.6	3.8	4.6
April	29.957	30.132	29.759	52.2	68.5	71.2	50.3	60.8	89	44	47	47	83	47	0.321	0.326	1.11	1.10	2.4	3.2	2.9
May	29.902	30.062	29.640	53.9	77.5	79.3	52.8	66.0	103	44	46	48	79	38	0.321	0.341	0.03	0.03	1.9	1.2	1.6
June	29.827	30.031	29.573	52.8	78.3	80.8	52.1	66.4	100	46	47	47	80	35	0.318	0.334	T.	T.	0.4	1.0	1.2
July	29.775	29.961	29.559	56.7	86.4	88.3	56.3	72.3	101	50	49	55	77	36	0.347	0.448	T.	T.	0.9	0.5	1.4
August	29.796	29.936	29.628	55.9	81.1	85.9	54.2	72.0	102	49	49	51	76	36	0.354	0.376	0.00	0.00	0.9	0.5	1.4
September	29.829	29.998	29.639	54.3	80.2	82.4	52.0	67.2	93	45	47	51	79	38	0.329	0.378	0.20	0.18	1.1	1.0	1.0
October	29.915	30.171	29.670	54.2	75.1	77.6	51.5	64.6	93	44	46	46	74	40	0.308	0.328	0.28	0.27	1.1	2.7	2.5
November	30.003	30.214	29.738	46.7	61.6	63.5	43.0	53.2	78	34	44	53	90	73	0.289	0.406	0.17	0.09	3.4	4.2	5.4
December	30.094	30.281	29.893	43.2	54.0	55.7	40.2	48.0	66	32	41	47	91	79	0.259	0.328	1.62	1.62	0.8	4.0	5.0
Year	29.941	30.460	29.549	50.3	69.7	71.5	48.3	59.9	103	28	45	48	83	50	0.301	0.341	7.78	1.37	2.2	2.8	3.2

ST. JOSEPH, MO.

[$\phi=39^{\circ} 49' N.$; $\lambda=94^{\circ} 51' W.$]

January	.....	.....	.....	.....	.....	34.0	19.3	28.6	56	-13	.....	.....	.....	.....	.....	.....	1.67	0.78	.....	.....	.....
February	.....	.....	.....	.....	.....	36.7	16.0	26.4	60	-5	.....	.....	.....	.....	.....	.....	0.50	0.34	.....	.....	.....
March	.....	.....	.....	.....	.....	69.1	43.7	56.4	89	26	.....	.....	.....	.....	.....	.....	T.	T.	.....	.....	.....
April	.....	.....	.....	.....	.....	67.3	44.0	55.8	93	30	.....	.....	.....	.....	.....	.....	1.82	0.55	.....	.....	.....
May	28.973	29.385	28.638	52.5	63.1	67.5	49.9	58.7	83	40	47	48	82	62	0.332	0.352	6.60	2.38	5.9	6.2	6.1
June	28.948	29.210	28.675	64.3	78.3	82.6	61.6	72.1	95	49	58	58	80	52	0.491	0.498	2.48	1.59	3.7	3.0	4.2
July	28.896	29.217	28.861	69.7	84.6	90.7	67.5	79.1	103	57	63	62	80	49	0.584	0.574	0.33	0.11	4.3	4.3	4.2
August	28.955	29.287	28.668	66.7	79.6	85.4	64.7	75.0	98	46	62	63	86	59	0.576	0.600	2.00	0.57	6.0	3.7	5.0
September	29.000	29.374	28.553	59.9	70.9	78.4	58.0	68.2	93	41	56	60	89	69	0.468	0.531	6.09	1.71	5.8	3.2	5.2
October	28.993	29.394	28.900	50.4	62.4	71.8	48.0	59.9	87	28	43	44	76	52	0.296	0.311	0.42	0.26	2.7	1.8	3.0
November	28.906	28.399	28.515	34.3	44.0	51.3	30.6	41.0	73	20	27	26	75	50	0.151	0.149	0.20	0.20	5.7	3.4	4.6
December	28.084	28.648	28.721	24.7	31.8	36.8	21.0	28.9	50	8	20	22	80	66	0.105	0.117	1.12	0.78	5.0	4.9	5.2
Year	.....	.....	.....	.....	.....	64.3	43.7	54.0	103	-13	.....	.....	.....	.....	.....	.....	23.23	2.38	.....	.....	.....

ST. LOUIS, MO.

[$\phi=38^{\circ} 38' N.$; $\lambda=90^{\circ} 12' W.$]

January	29.806	30.064	28.813	28.8	34.8	39.9	25.4	32.6	61	3	23	26	79	70	0.128	0.148	2.73	1.47	5.1	4.6	6.5
February	29.854	29.949	29.011	24.1	33.3	38.0	20.4	29.2	65	1	19	25	80	70	0.108	0.139	3.22	1.14	5.4	4.5	5.2
March	29.469	29.723	29.242	49.0	63.1	68.3	46.7	57.5	87	29	37	37	64	39	0.230	0.227	0.14	0.10	3.6	2.2	2.7
April	29.291	29.681	28.969	50.3	59.3	65.0	46.6	55.8	89	25	42	44	74	61	0.276	0.309	4.09	1.19	6.2	5.8	5.9
May	29.398	29.818	29.038	56.4	64.5	69.2	52.5	60.8	85	39	49	50	76	62	0.360	0.378	5.23	2.30	4.9	5.1	6.0
June	29.371	29.605	29.151	67.2	75.9	80.7	63.9	72.3	91	47	58	58	73	57	0.502	0.507	4.24	1.48	5.1	5.1	4.9
July	29.331	29.606	29.170	72.4	81.1	84.6	69.1	76.8	94	60	66	67	81	64	0.647	0.669	4.21	0.97	4.7	4.6	5.2
August	29.391	29.670	29.185	70.0	78.9	83.1	67.3	75.2	93	54	63	64	78	62	0.582	0.618	1.80	0.81	3.6	4.1	4.6
September	29.450	29.748	29.129	64.1	73.9	78.4	62.4	70.4	89	53	59	62	84	68	0.512	0.573	6.09	3.43	4.9	4.2	4.7
October	29.436	29.818	28.942	63.8	64.0	70.0	51.5	60.6	86	28	47	49	79	61	0.358	0.397	3.98	2.83	2.1	2.1	3.0
November	29.432	29.738	29.015	36.8	44.6	50.5	33.5	42.6	73	21	29	32	73	62	0.166	0.185	0.30	0.28	3.6	2.7	4.8
December	29.527	30.135	29.180	27.4	35.3	39.6	24.8	32.2	64	11	20	24	74	61	0.112	0.128	1.18	0.60	4.2	3.2	5.4
Year	29.430	30.135	28.813	50.0	59.1	63.9	47.0	55.5	94	1	43	45	76	61	0.332	0.356	37.31	3.43	4.4	4.0	4.9

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

ST. PAUL, MINN.

[$\phi=44^{\circ} 58' N.$; $\lambda=93^{\circ} 03' W.$]

Month.	Pressure.			Temperature.						Moisture.												
	Extremes.		Monthly mean.	Mean.			Extremes.		Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.							
	Maximum.	Minimum.		8 a. m.	8 p. m.	Monthly.	Maximum.	Minimum.		8 a. m.	8 p. m.	8 a. m.	8 p. m.		Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.			
January	29.151	29.772	28.314	12.2	17.7	22.7	6.1	14.4	38	-17	9	12	66	75	0.072	0.076	1.10	0.44	6.7	5.0	5.0	5.9
February	29.218	29.656	28.665	6.4	15.6	20.7	1.3	11.0	46	-20	3	8	85	71	0.655	0.668	.42	.36	5.0	4.0	4.5	4.5
March	29.062	29.495	28.654	36.6	49.9	55.4	34.4	44.9	83	16	30	34	76	56	1.170	1.204	.16	.09	2.0	3.9	2.9	2.9
April	28.983	29.296	28.525	41.9	57.1	63.6	38.4	51.0	86	20	33	36	72	48	1.199	1.216	.59	.26	4.4	5.2	4.4	4.4
May	29.120	29.637	28.695	47.5	61.8	65.8	44.5	55.2	79	32	36	36	66	41	1.221	1.218	1.76	1.37	4.4	4.7	4.3	4.3
June	29.104	29.346	28.834	62.6	78.7	83.1	59.7	71.4	98	38	54	52	73	43	1.437	1.409	1.91	.52	2.9	3.5	3.1	3.1
July	29.025	29.352	28.637	65.8	81.9	85.5	62.8	74.2	95	54	56	55	72	41	1.457	1.444	1.99	.33	2.7	2.0	2.4	2.4
August	29.069	29.396	28.827	60.8	74.4	79.3	58.9	69.1	90	47	55	55	81	53	1.439	1.447	1.98	.30	4.4	4.1	4.3	4.3
September	29.119	29.536	28.748	52.8	66.6	72.5	51.1	61.8	90	40	47	49	80	55	1.326	1.359	1.77	.85	4.8	4.7	4.3	4.3
October	29.042	29.415	28.665	44.9	57.6	64.6	42.6	53.6	83	23	38	40	78	54	1.242	1.266	1.76	.40	4.4	4.1	4.2	4.2
November	29.112	29.450	28.662	24.8	30.0	34.2	22.0	28.1	47	8	21	22	83	70	1.112	1.116	1.48	.14	6.4	5.4	6.3	6.3
December	29.153	29.735	28.761	14.7	22.3	26.9	11.2	19.0	44	-8	11	15	82	70	0.072	0.085	.30	.16	5.2	5.0	5.0	5.0
Year	29.098	29.772	28.314	39.2	51.1	56.2	36.1	46.1	96	-20	33	34	78	56	.234	.242	10.21	1.37	4.5	4.3	4.2	4.2

SALT LAKE CITY, UTAH.

[$\phi=40^{\circ} 46' N.$; $\lambda=111^{\circ} 54' W.$]

January	25.690	26.058	25.073	26.1	29.4	36.3	20.9	28.6	56	1	19	22	74	75	0.102	0.117	0.99	0.24	4.5	6.1	6.8	6.8
February	25.661	26.078	25.148	28.6	33.2	39.1	24.1	31.6	66	12	22	25	76	72	1.114	1.134	1.00	.21	5.1	6.9	6.6	6.6
March	25.664	25.982	25.232	42.9	56.6	59.9	39.4	49.6	74	30	30	32	60	41	1.163	1.183	1.58	.71	2.4	4.0	3.5	3.5
April	25.634	25.934	25.185	47.3	62.2	65.7	43.5	54.6	85	29	28	29	50	31	1.156	1.161	1.66	.57	3.0	5.0	3.2	3.2
May	25.617	25.824	25.287	51.5	69.1	71.4	48.8	60.1	91	34	31	32	48	27	1.176	1.181	1.47	.16	3.0	3.6	3.1	3.1
June	25.520	25.801	25.266	62.0	81.2	83.0	59.4	71.2	94	46	32	34	33	20	1.190	1.206	1.17	.16	2.1	3.0	2.5	2.5
July	25.599	25.754	25.417	68.3	86.6	89.8	65.5	77.6	97	54	40	42	38	24	1.260	1.285	1.52	.20	2.0	4.4	4.0	4.0
August	25.629	25.810	25.322	65.9	82.8	86.7	62.5	74.6	94	49	39	39	40	23	1.258	1.251	1.33	.18	2.4	4.9	3.0	3.0
September	25.616	25.783	25.368	60.1	74.1	78.5	57.0	67.8	90	45	38	38	45	30	1.233	1.243	1.74	.48	2.9	3.7	3.0	3.0
October	25.708	25.978	25.354	47.0	58.1	64.8	43.7	54.2	88	35	31	33	55	29	1.175	1.189	2.64	1.14	2.3	2.7	3.1	3.1
November	25.650	25.875	25.247	41.5	49.8	55.6	37.6	46.6	70	23	28	30	60	49	1.153	1.168	1.39	.78	3.5	3.8	4.6	4.6
December	25.738	25.998	25.407	32.6	36.3	41.2	29.6	35.4	56	18	26	28	76	70	1.142	1.152	1.16	.30	6.1	5.8	7.2	7.2
Year	25.644	26.078	25.073	47.8	60.0	64.3	44.3	54.3	97	1	30	32	55	42	1.176	1.189	11.25	1.14	3.3	4.5	4.2	4.2

SAN ANTONIO, TEX.

[$\phi=29^{\circ} 27' N.$; $\lambda=98^{\circ} 28' W.$]

January	29.424	29.829	29.064	46.9	60.6	66.2	43.6	54.9	80	23	38	40	72	51	0.257	0.274	0.88	0.83	4.3	4.3	4.7	4.7
February	29.391	29.784	29.035	43.9	57.8	63.5	39.7	51.6	80	19	38	40	79	54	0.252	0.277	0.78	.96	5.9	3.1	5.1	5.1
March	29.352	29.553	29.001	57.9	74.2	79.7	55.9	67.8	86	43	52	45	81	39	0.398	0.313	1.42	.23	6.0	2.9	4.0	4.0
April	29.260	29.510	28.937	59.2	76.0	81.1	57.9	69.5	91	46	52	48	78	44	0.416	0.379	3.31	2.52	3.9	3.2	3.7	3.7
May	29.224	29.452	28.874	66.7	79.0	85.0	64.4	74.7	96	55	63	61	87	56	0.579	0.542	1.56	.81	5.7	2.3	5.1	5.1
June	29.194	29.396	28.954	72.2	87.8	92.5	70.1	81.3	104	59	67	62	85	43	0.682	0.562	1.55	.34	3.5	2.3	3.4	3.4
July	29.208	29.354	29.045	74.5	90.6	96.5	73.1	84.8	101	68	71	63	88	42	0.756	0.583	1.37	.45	2.8	3.7	3.1	3.1
August	29.205	29.373	29.073	75.1	92.7	97.5	74.7	86.1	100	72	71	63	87	39	0.750	0.573	1.37	.14	3.2	2.8	3.4	3.4
September	29.267	29.426	29.032	71.7	85.9	92.3	70.8	81.5	98	66	69	63	91	48	0.706	0.596	1.56	.43	3.0	3.0	4.0	4.0
October	29.310	29.549	29.058	69.9	74.5	79.8	58.3	69.0	94	36	55	53	85	50	0.473	0.441	3.35	1.17	3.0	2.6	3.6	3.6
November	29.312	29.638	29.098	65.7	66.9	73.5	53.3	63.4	83	39	51	51	86	59	0.406	0.396	1.38	1.10	4.3	2.3	5.0	5.0
December	29.405	29.757	28.885	48.2	60.2	65.1	45.6	55.4	80	33	43	45	83	60	0.297	0.320	1.69	.59	5.1	3.7	6.0	6.0
Year	29.296	29.849	28.874	61.0	74.7	81.0	59.0	70.0	104	19	56	53	84	49	0.498	0.437	16.22	2.52	4.2	3.3	4.3	4.3

SAN DIEGO, CAL.

[$\phi=32^{\circ} 43' N.$; $\lambda=117^{\circ} 10' W.$]

January	30.026	30.288	29.716	46.9	56.1	60.1	44.3	52.2	76	34	38	43	73	64	0.239	0.287	2.00	1.05	4.9	4.4	3.3	3.3
February	30.028	30.156	29.813	47.3	57.4	60.0	44.0	52.9	79	37	40	45	78	64	0.257	0.302	1.19	.15	4.3	3.0	2.7	2.7
March	29.962	30.104	29.780	52.9	59.6	63.6	50.9	57.2	84	45	47	49	83	71	0.330	0.354	1.30	.63	6.8	5.1	4.4	4.4
April	29.912	30.012	29.754	56.1	65.3	69.1	54.3	61.7	95	47	47	49	77	62	0.338	0.358	1.05	.06	8.4	3.8	2.8	2.8
May	29.887	29.977	29.690	56.9	62.7	66.1	56.1	61.1	76	46	52	54	85	74	0.395	0.424	1.05	.05	8.0	5.3	3.4	3.4
June	29.841	29.950	29.706	58.7	63.7	66.1	57.9	62.0	71	54	55	55	86	74	0.428	0.439	1.00	.00	9.3	2.5	3.7	3.7
July	29.809	29.921	29.664	62.9	68.4	71.8	62.2	67.0	82	58	60	60	89	74	0.511	0.511	1.01	.01	7.4	3.9	3.4	3.4
August	29.826	29.956	29.679	63.4	69.7	72.9	62.6	67.8	82	58	60	61	90	73	0.524	0.530	1.05	.05	7.3	1.8	2.4	2.4
September	29.801	29.896	29.656	63.7	69.8	73.4	62.3	67.8	86	56	60	62	90	77	0.529	0.558	1.17	.17	7.4	3.1	2.8	2.8
October	29.862	30.055	29.647	58.5	66.5	70.8	57.2	64.0	87	50	55	59	88	78	0.433	0.506	1.35	.75	3.6	2.9	2.5	2.5
November	29.930	30.085	29.710	54.2	61.0	65.6	51.8	58.7	74	43	48	53	81	75	0.347	0.402	1.40	.18	5.3	3.6	3.6	3.6
December	29.980	30.123	2																			

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

ROSWELL, N. MEX.

[H=3,578 ft.; h₁=9 ft.; h₂=4 ft.; h₃=57 ft.]

Month.	Wind.													Number of days.																
	By self-register.					Number of winds, 8 a. m. and 8 p. m.								Partly cloudy.	Precipitation.	Snow.	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.	0.01 inch and over.	0.04 inch and over.	T. or more.	Hail.	Fog.	32° or below.	90° or above.	Minimum temperature below.	Thunderstorms.	Auroras.
January	6.4	S.	46	NW.	1	8	6	2	14	14	5	7	6	0	14	8	9	3	1	2	2	0	1	2	0	23	0	0	0	
February	7.2	N.	35	NW.	0	13	4	0	9	11	1	7	0	0	11	15	2	1	1	1	0	0	1	0	0	0	0	0	0	0
March	7.1	N.	44	W.	1	2	3	3	13	18	1	1	5	5	15	12	4	1	1	0	0	0	0	0	0	6	3	0	0	
April	7.2	SW.	40	NE.	1	1	6	3	9	10	3	3	0	0	21	5	4	4	1	0	0	0	0	0	0	2	3	0	0	
May	6.6	SE.	28	N.	0	0	6	8	16	6	3	10	6	0	14	14	3	4	1	0	0	0	0	0	0	0	2	0	0	
June	6.1	SE.	25	S.	0	4	10	3	17	7	7	9	3	0	15	13	2	5	3	0	0	0	0	0	0	28	0	6	0	
July	5.1	SE.	36	NE.	0	4	10	3	16	16	7	4	4	2	13	18	0	0	0	0	0	0	0	0	0	0	6	0	0	
August	4.9	SE.	52	NW.	1	15	6	5	16	1	4	4	5	0	9	15	7	7	10	8	0	0	0	0	0	20	0	12	0	
September	4.1	S.	21	S.	0	10	6	5	10	17	0	0	4	0	16	12	2	4	3	0	0	0	0	0	11	0	2	0	0	
October	4.8	S.	29	NW.	0	14	4	3	7	16	4	9	5	0	21	7	3	3	3	1	1	0	0	0	0	0	0	0	0	
November	4.9	S.	26	NW.	0	9	6	0	0	21	6	5	11	0	15	10	5	2	2	0	0	0	0	0	0	6	14	0	0	
December	5.5	S.	33	NW.	0	11	0	8	4	12	5	5	11	0	8	10	7	1	0	0	0	0	0	0	0	0	25	0	0	
Year	5.8	S.	52	NW.	4	111	73	48	131	155	78	65	69	0	172	145	48	45	26	5	4	0	2	3	90	99	28	0	0	

SACRAMENTO, CAL.

[H=69 ft.; h₁=106 ft.; h₂=106 ft.; h₃=117 ft.]

January	7.3	SE.	36	SE.	0	7	8	7	18	6	3	2	11	0	8	9	14	12	8	0	0	1	9	0	0	4	0	0	0
February	9.4	SE.	37	NW.	0	0	2	1	18	13	1	1	11	0	11	8	9	9	5	5	0	0	1	0	0	0	0	0	0
March	6.5	SE.	31	S.	0	9	4	5	15	8	10	1	10	0	14	8	9	8	5	0	0	0	1	3	0	0	0	0	0
April	8.2	S.	28	NW.	0	3	5	3	14	20	6	6	8	0	19	8	3	2	1	0	0	0	1	0	0	0	0	0	0
May	9.2	S.	32	NW.	0	2	0	1	20	21	9	0	8	1	26	4	1	1	0	0	0	0	0	0	0	3	0	0	0
June	8.8	S.	26	S.	0	2	0	0	22	22	9	0	3	2	26	3	1	0	0	0	0	0	0	0	0	4	0	0	0
July	8.7	S.	24	SW.	0	1	0	0	16	41	3	0	0	0	28	3	0	0	0	0	0	0	0	0	0	13	0	0	0
August	7.8	S.	22	NW.	0	0	1	0	23	31	2	0	3	2	31	0	0	0	0	0	0	0	0	0	0	16	0	0	0
September	7.1	S.	26	SW.	0	6	1	2	18	22	4	0	1	6	0	28	0	2	2	2	0	0	0	0	0	6	0	0	0
October	6.0	S.	25	N.	0	8	6	5	12	9	5	0	13	4	22	5	4	2	1	0	0	0	0	0	0	2	0	0	0
November	5.7	SE.	22	SE.	0	4	6	6	18	15	3	1	5	2	9	11	10	4	2	0	0	0	3	0	0	0	0	0	0
December	5.8	SE.	28	S.	0	15	4	10	17	3	1	1	7	4	8	4	19	6	5	0	0	0	6	0	0	0	0	0	0
Year	7.6	S.	37	NW.	0	66	37	40	211	211	56	8	86	15	230	63	72	46	29	0	0	2	23	0	44	4	0	0	0

ST. JOSEPH, MO.

[H=967 ft.; h₁=11 ft.; h₂=3 ft.; h₃=49 ft.]

January	10.2	SE.	39	NW.	0	8	6	5	2	14	8	0	6	12	0	13	12	12	6	4	5	2	0	4	12	0	27	0	0	
February	8.4	S.	34	NW.	0	9	5	8	7	18	8	2	6	0	24	5	2	0	0	0	1	0	0	0	0	0	0	0	0	0
March	11.3	NW.	39	NW.	0	5	3	7	9	10	0	4	19	0	9	14	7	12	7	4	3	1	0	0	0	0	2	5	6	0
April	7.7	E.	28	NW.	0	9	7	15	8	7	2	2	5	9	0	7	10	14	16	14	0	0	0	0	0	0	0	0	0	0
May	5.9	SE.	26	NW.	0	3	7	11	20	8	1	5	5	0	14	10	6	8	7	0	0	1	0	0	0	10	0	7	0	
June	6.0	S.	31	SE.	0	3	7	11	8	13	5	5	5	0	12	16	3	5	3	0	0	0	0	0	0	15	0	7	0	
July	6.1	SE.	38	W.	0	3	7	5	19	9	3	4	12	0	12	11	8	9	7	0	0	0	0	0	0	0	9	0	6	0
August	6.2	SE.	24	NW.	0	5	5	16	12	12	2	1	7	0	10	8	12	11	11	0	0	0	2	0	0	1	0	8	0	
September	7.4	S.	34	NW.	0	1	4	7	15	17	3	2	13	0	18	8	5	3	2	1	0	0	1	0	0	0	2	0	0	
October	8.4	NW.	32	NW.	0	7	4	13	8	4	2	4	18	0	8	17	5	1	1	2	0	0	0	1	0	18	0	0	0	
November	8.6	NW.	32	NW.	0	3	5	6	13	6	3	6	20	0	9	11	11	4	3	6	2	0	1	9	0	31	0	0	0	
Year	8.6	NW.	32	NW.	0	3	5	6	13	6	3	6	20	0	9	11	11	4	3	6	2	0	1	9	0	31	0	0	0	

ST. LOUIS, MO.

[H=567 ft.; h₁=208 ft.; h₂=199 ft.; h₃=217 ft.]

January	11.9	NW.	50	W.	3	7	5	4	8	9	8	7	14	0	7	9	15	8	6	6	2	0	1	8	0	24	0	0	0
February	12.6	S.	34	SW.	0	10	7	1	11	9	4	6	8	0	10	7	11	12	8	10	9	0	0	9	0	25	0	0	0
March	10.7	SW.	36	NW.	0	3	12	4	7	13	12	5	6	0	22	7	2	3	1	0	0	2	0	0	0	3	1	0	0
April	12.1	NW.	39	NW.	0	3	5	3	8	9	11	7	14	0	11	5	14	15	15	5	3	1	0	0	0	0	3	6	0
May	11.0	SE.	35	NE.	0	4	8	8	6	12	12	2	10	8	0	13	8	13	15	13	0	0	1	0	0	0	0	0	0
June	7.7	E.	40	SE.	1	1	6	6	12	6	10	11	2	8	0	12	11	7	11	10	0	0	0	0	0	4	0	11	0
July	8.7	SW.	38	NW.	0	1	6	9	6	10	10	5	2	5	0	13	8	10	14	11	0	0	0	0	0	5	0	9	0
August	8.0	S.	33	SE.	0	1	5	9	6	10	10	5	2	5	1	13	11	7	7	6	0	0	0	0	0	4	0	10	0
September	8.3	SE.	31	NW.	0	0	1	16	10	12	4	9	4	3	1	12	10	8	10	8	0	0	1	1	0	0	0	8	0
October	9.8	S.	37	NW.	0	4	4	4	7	21	6	7	9	0	22	5	4	8	5	1	0	0	2	0	0	2	0	0	
November	11.3	NW.	36	NW.	0	8	3	6	7	6	5	8	7	0	14	6	10	3	1	0	0	1	0	1	0	0	13	1	0
December	11.6	NW.	29	NW.	0	3	8	2	11	8	5	9	16	0	14	3													

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

ST. PAUL, MINN.

[H=837 ft.; h₁=203 ft.; h₂=196 ft.; h_a=212 ft.]

Month.	Wind.											Number of days.																		
	By self-register.				Number of winds, 8 a. m. and 8 p. m.							Partly cloudy.	Cloudy.	Precipitation.		Snow.		Maximum temp.		Electricity.										
	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.			Calm.	Clear.	0.01 inch and over.			0.04 inch and over.	T. or more.	0.01 inch or more melted.	Hail.	Fog.	32° or below.		90° or above.		Thunderstorms.	Auroras.						
						North.	Northeast.	East.				Southeast.	South.						Southwest.	West.	Northwest.	Minimum temperature below.			Maximum temperature above.					
January	9.7	NW.	44	NW.	2	8	3	3	2	7	6	9	6	16	0	7	10	14	8	5	12	8	0	1	25	0	31	0	0	
February	11.5	NW.	35	NW.	1	8	1	7	16	7	2	2	13	0	0	9	10	14	5	2	2	9	0	0	25	0	28	0	0	
March	12.0	NW.	52	W.	0	6	7	12	14	8	14	8	12	0	0	19	10	10	2	2	2	3	1	2	1	13	0	0	1	
April	10.1	NE.	36	S.	0	0	7	12	7	7	9	6	3	11	0	13	10	5	5	5	4	4	3	0	0	0	8	1	1	0
May	6.0	S.	30	S.	0	10	14	0	0	16	6	5	10	0	16	9	6	6	9	5	5	0	0	0	0	0	0	0	0	0
June	4.5	SW.	24	S.	0	7	10	0	1	16	6	5	5	0	19	7	4	5	4	0	0	0	0	0	0	14	0	1	0	
July	5.5	SW.	38	SW.	0	6	9	1	1	9	16	11	9	0	22	8	1	6	5	0	0	0	0	0	0	7	0	3	0	
August	4.6	S.	24	SW.	0	4	16	1	1	13	11	7	9	0	15	13	3	10	9	0	0	0	0	0	0	0	0	6	1	0
September	5.9	S.	28	S.	0	5	9	0	0	21	12	7	6	0	15	8	7	5	5	0	0	0	0	0	0	0	0	3	0	0
October	11.2	S.	50	SW.	2	2	9	3	10	12	7	7	11	0	14	10	3	6	6	2	2	1	0	0	0	0	3	1	0	0
November	12.3	NW.	39	NW.	0	7	1	8	6	4	1	1	28	0	7	10	13	7	7	4	10	6	0	11	0	30	0	0	0	
December	11.9	NW.	42	NW.	2	5	3	6	10	5	5	7	21	0	10	12	9	3	2	11	3	0	0	24	0	31	0	0	0	
Year	8.8	NW.	52	W.	12	83	84	39	68	122	101	82	151	0	166	121	78	73	54	51	27	0	3	83	21	144	15	2	0	

SALT LAKE CITY, UTAH.

[H=4,360 ft.; h₁=147 ft.; h₂=141 ft.; h_a=189 ft.]

January	6.6	NW.	44	S.	2	2	3	4	12	16	3	4	18	0	6	10	15	10	10	9	9	0	3	10	0	29	0	0	0
February	6.7	SE.	52	NW.	1	8	1	7	16	7	2	2	13	0	5	10	13	16	12	14	14	0	1	8	0	0	0	0	0
March	7.1	SE.	34	NW.	0	6	1	2	12	14	6	0	21	0	18	10	3	9	10	10	0	0	0	0	0	0	0	0	0
April	8.7	NW.	60	N.	2	10	0	3	11	15	2	2	19	0	17	10	3	5	17	10	1	1	0	0	0	0	3	1	0
May	8.0	NW.	36	S.	0	9	8	6	7	10	3	2	17	0	17	12	2	7	12	2	1	1	0	0	0	1	0	1	0
June	9.3	NW.	38	E.	0	12	6	2	12	9	2	1	16	0	21	8	1	2	1	1	1	0	0	0	0	7	0	2	0
July	7.9	NW.	44	SW.	1	8	4	5	6	15	5	1	18	0	13	16	2	8	4	4	0	0	0	0	0	17	0	6	0
August	7.4	SE.	60	W.	2	6	9	3	9	6	2	2	25	0	19	8	4	4	3	2	0	0	0	0	12	0	7	0	
September	8.1	SE.	42	SE.	1	4	5	0	18	12	3	0	18	0	19	7	4	6	5	0	0	0	0	0	0	1	0	3	0
October	6.8	SE.	40	NW.	1	7	4	7	12	11	2	3	16	0	19	5	7	8	8	0	0	0	0	0	0	0	0	0	0
November	6.7	NW.	35	S.	0	5	6	1	9	17	1	1	20	0	12	10	8	8	4	2	1	1	0	0	0	5	0	0	0
December	4.9	NW.	30	NW.	0	4	4	7	12	5	8	2	20	0	6	6	19	10	4	7	7	5	0	1	2	0	21	0	0
Year	7.4	NW.	60	N.	10	81	51	47	136	137	39	18	221	0	172	112	81	88	66	37	32	0	6	20	38	86	20	0	0

SAN ANTONIO, TEX.

[H=701 ft.; h₁=80 ft.; h₂=72 ft.; h_a=91 ft.]

January	7.4	SE.	34	NW.	0	12	10	4	17	9	5	1	3	1	14	8	9	4	3	0	0	0	6	0	0	4	0	0	0
February	8.0	N.	32	N.	0	16	13	3	16	6	1	0	1	0	11	19	7	8	3	1	1	0	1	1	0	0	6	0	0
March	7.4	SE.	28	N.	0	4	7	6	30	9	4	1	1	0	14	11	6	4	2	0	0	0	0	0	0	0	1	0	0
April	6.8	SE.	36	N.	0	9	7	5	29	3	5	1	4	0	17	5	7	5	7	0	0	0	1	2	0	0	1	0	0
May	7.4	SE.	34	N.	0	3	13	13	25	5	2	0	1	0	6	18	7	3	3	0	0	0	0	0	0	0	0	5	0
June	6.5	SE.	30	N.	0	1	8	4	39	6	0	0	0	1	15	12	3	3	3	0	0	0	0	0	0	22	0	0	0
July	6.5	SE.	32	NE.	0	1	2	3	51	2	3	0	0	0	19	12	0	5	5	0	0	1	1	0	0	31	0	4	0
August	5.9	SE.	24	SE.	0	2	7	6	39	7	0	0	0	0	18	12	1	4	3	0	0	0	0	0	0	0	0	2	0
September	5.6	SE.	27	NE.	0	1	8	3	38	5	2	0	1	2	13	14	3	6	2	0	0	0	0	0	0	27	0	8	0
October	5.3	N.	33	N.	0	21	4	5	14	10	1	2	3	2	18	8	5	8	7	0	0	1	0	0	0	5	0	1	0
November	5.9	S.	26	N.	0	17	7	2	7	15	9	0	0	3	11	12	7	3	3	0	0	3	0	0	0	0	0	1	0
December	5.9	SE.	30	N.	0	17	6	5	12	13	2	1	3	3	7	11	13	6	5	0	0	2	0	0	0	0	0	1	0
Year	6.6	SE.	36	N.	0	104	92	59	314	90	34	6	18	13	168	134	68	62	50	1	1	3	16	0	120	10	32	0	0

SAN DIEGO, CAL.

[H=57 ft.; h₁=94 ft.; h₂=86 ft.; h_a=102 ft.]

January	5.1	NE.	33	S.	0	7	17	7	2	4	0	5	20	0	19	6	6	6	3	0	0	1	0	0	0	0	0	0	0
February	5.4	NE.	21	NW.	0	6	15	6	1	1	4	8	15	0	20	5	3	3	3	0	0	1	5	0	0	0	0	0	0
March	5.6	NW.	32	S.	0	5	9	9	1	1	4	12	21	0	13	11	7	7	2	1	0	0	3	0	0	0	0	0	0
April	6.0	NW.	22	NW.	0	10	5	9	1	2	5	11	17	0	20	6	4	4	2	1	0	0	0	0	0	2	0	0	0
May	6.3	W.	20	NW.	0	7	1	1	4	4	9	22	13	0	16	15	0	0	2	0	0	0	2	2	0	0	0	0	0
June	6.3	SW.	21	NW.	0	9	4	2	5	3	4	19	12	7	0	18	9	2	0	0	0	0	0	0	0	0	0	0	0
July	6.0	NW.	27	S.	0	11	2	5	0	1	8	13	22	0	19	10	2	2	1	1	0	0	0	0	0	0	0	0	0
August	5.7	NW.	22	NW.	0	11	6	0	0	4	5	11	24	0	26	8	0	2	1	1	0	0	0	0	0	0	0	1	0
September	5.8	NW.	24	NW.	0	8	10	6	1	3	5	6	19	2	22	6	2	1	1	0	0	0	1	0	0	0	0	1	0
October	5.1	NW.	21	NW.	0	6	8	7	2	6	5	8	20	0	22	5	4	3	3	0	0	10	0	0	0	0</			

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

SANDUSKY, OHIO.

[$\phi=41^{\circ} 25' N.$; $\lambda=82^{\circ} 40' W.$]

Month.	Pressure.			Temperature.						Moisture.									
	Monthly mean.	Extremes.		Mean.			Extremes.			Dew point.	Relative humidity.		Vapor pressure.	Precipitation.	Cloudiness.				
		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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
January.....	In. 29.360	In. 30.068	In. 28.660	26.1	32.2	20.7	26.4	47	6	22	82	82	0.119	3.84	1.27	8.3	.....	.....	7.9
February.....	29.443	29.882	29.055	20.9	31.8	17.2	24.5	48	2	17	82	82	.099	2.97	.90	6.2	.....	.....	6.1
March.....	29.377	29.038	28.991	40.9	34.3	36.5	45.6	85	21	32	72	72	.187	.28	.27	4.4	.....	.....	3.3
April.....	29.216	29.623	28.883	46.3	38.0	42.1	50.0	82	32	42	77	77	.246	6.24	2.00	6.4	.....	.....	5.5
May.....	29.325	29.746	28.952	52.6	43.5	48.0	55.8	78	38	44	72	72	.268	1.89	.45	5.2	.....	.....	4.1
June.....	29.287	29.527	28.892	63.1	43.4	58.4	65.9	90	41	55	76	76	.452	1.74	.57	4.3	.....	.....	3.0
July.....	29.263	29.563	29.110	71.5	42.7	66.8	74.8	94	58	62	72	72	.562	1.76	.53	3.5	.....	.....	3.8
August.....	29.343	29.570	29.060	67.9	40.4	63.0	71.7	92	49	58	72	72	.500	2.28	1.32	3.6	.....	.....	3.8
September.....	29.413	29.684	29.132	61.5	42.9	58.8	65.8	88	49	56	81	81	.455	3.30	1.20	5.2	.....	.....	4.3
October.....	29.332	29.681	28.890	51.5	43.9	48.5	56.2	85	28	46	83	83	.333	4.91	2.49	3.9	.....	.....	3.8
November.....	29.257	29.568	28.875	34.4	41.1	32.6	36.8	85	25	30	85	85	.170	1.55	.41	8.4	.....	.....	8.2
December.....	29.384	30.006	28.900	23.9	30.9	19.4	25.2	65	9	20	84	84	.110	1.72	.66	6.9	.....	.....	7.2
Year.....	29.333	30.008	28.660	40.7	57.1	42.7	49.9	94	2	40	78	78	.294	32.48	2.49	5.5	.....	.....	5.2

SAN FRANCISCO, CAL.

[$\phi=37^{\circ} 48' N.$; $\lambda=122^{\circ} 26' W.$]

January.....	29.965	30.355	29.482	43.5	48.7	50.9	41.8	46.4	59	36	39	40	85	73	0.243	0.253	3.24	0.83	5.4	5.9	6.4
February.....	30.046	30.174	29.769	46.4	55.4	53.8	44.9	50.4	64	38	39	41	78	65	.252	.205	2.09	.64	3.9	5.5	4.8
March.....	29.639	30.163	29.583	49.9	57.3	61.6	48.2	54.9	77	44	46	47	88	70	.317	.322	3.78	1.17	5.9	4.0	4.6
April.....	29.510	30.086	29.737	51.6	59.0	64.3	49.9	57.1	87	46	47	48	85	68	.323	.333	.31	.23	4.5	3.9	2.8
May.....	29.875	29.980	29.639	53.3	59.8	65.9	51.5	58.7	90	48	48	48	83	68	.333	.340	.03	.02	4.9	2.9	4.1
June.....	29.815	29.975	29.597	51.2	57.8	61.8	50.0	55.9	74	48	47	47	87	68	.326	.322	.02	.02	4.5	1.0	2.2
July.....	29.709	29.913	29.564	51.8	57.9	62.1	50.8	56.4	76	48	50	50	92	76	.353	.361	T.	T.	6.9	2.9	3.7
August.....	29.788	29.932	29.622	52.1	57.3	62.1	50.9	56.5	79	48	49	50	90	76	.347	.354	0	0	6.6	1.7	3.9
September.....	29.788	29.931	29.600	52.7	58.6	64.6	50.7	57.6	82	48	49	49	89	73	.351	.346	.05	.04	5.3	2.7	4.3
October.....	29.851	30.082	29.617	54.8	62.8	69.4	52.9	61.2	89	47	49	48	82	64	.345	.333	.65	.48	3.9	3.6	3.9
November.....	29.920	30.106	29.671	50.6	56.0	60.3	49.4	54.8	76	44	47	47	89	73	.331	.328	.48	.27	6.2	4.5	6.0
December.....	29.388	30.134	29.776	49.0	55.8	47.5	53.0	68	43	44	44	84	68	.291	.298	1.73	.99	2.9	4.9	5.4	
Year.....	29.887	30.355	29.482	50.6	57.0	61.4	49.0	55.2	90	36	46	47	86	70	.318	.321	12.38	1.17	5.1	3.7	4.3

SAN JOSE, CAL.

[$\phi=37^{\circ} 20' N.$; $\lambda=121^{\circ} 54' W.$]

January.....	30.017	30.386	29.552	49.9	53.1	36.0	44.8	60	26	42	76	76	0.275	2.31	0.53	5.9	6.4
February.....	30.058	30.205	29.801	55.4	58.8	38.4	48.6	72	25	45	63	63	.264	2.83	.42	5.4	4.9
March.....	29.901	30.293	29.600	62.3	68.2	44.5	55.4	78	37	51	67	67	.273	2.84	.35	3.7	5.2
April.....	29.919	30.117	29.732	68.8	70.2	46.0	58.1	90	38	50	59	59	.274	4.1	.40	3.2	3.5
May.....	29.871	30.019	29.656	71.4	75.9	48.7	62.3	102	39	51	52	52	.384	T.	T.	1.6	3.0
June.....	29.846	30.013	29.643	68.6	73.4	46.0	59.7	93	40	52	55	55	.387	.02	.02	1.2	1.6
July.....	29.772	29.953	29.566	75.2	79.5	51.5	65.5	89	43	56	52	52	.447	T.	T.	.5	2.0
August.....	29.785	29.959	29.635	75.2	79.9	48.9	64.4	85	44	55	52	52	.433	.00	.00	.0	2.2
September.....	29.799	29.956	29.616	71.0	76.5	47.6	62.0	90	40	54	57	57	.421	.09	.07	.7	2.6
October.....	29.862	30.106	29.674	69.8	75.1	47.3	61.2	91	40	50	53	53	.362	.20	.17	2.7	3.4
November.....	29.931	30.123	29.694	59.4	64.9	41.6	53.2	80	33	48	67	67	.339	.28	.20	3.9	4.0
December.....	30.000	30.106	29.797	56.1	60.3	38.5	49.4	70	28	44	68	68	.301	.68	.41	4.9	5.3
Year.....	29.897	30.386	29.552	65.1	69.5	44.6	57.0	102	25	50	60	60	.366	7.66	.85	2.9	3.7

SAN JUAN, P. R.

[$\phi=18^{\circ} 29' N.$; $\lambda=66^{\circ} 7' W.$]

January.....	29.948	30.090	29.820	73.7	73.8	76.6	69.1	73.8	83	65	66	66	77	77	0.637	0.637	5.68	1.58	6.6	4.0	5.5
February.....	30.062	30.100	29.886	72.8	73.6	78.7	68.4	74.7	81	62	65	65	77	74	.621	.616	3.32	.77	7.0	4.0	5.5
March.....	29.960	30.011	29.796	75.4	73.9	80.4	69.0	74.7	85	66	66	66	73	77	.642	.638	3.46	1.15	3.7	3.7	4.5
April.....	29.917	30.033	29.730	77.2	75.3	81.7	70.7	76.2	87	67	66	67	70	75	.652	.657	3.85	2.17	5.2	3.7	4.5
May.....	29.936	30.025	29.883	78.4	77.0	82.4	72.5	77.4	88	70	69	68	72	76	.700	.699	4.62	2.92	6.0	2.9	5.1
June.....	29.954	30.054	29.888	80.7	78.5	84.4	74.8	79.6	90	72	71	72	73	80	.761	.777	6.64	3.67	5.5	4.4	4.9
July.....	29.944	30.026	29.923	81.2	81.2	84.9	75.2	80.0	96	70	72	73	80	77	.777	.777	2.57	.90	5.0	4.4	4.6
August.....	29.896	29.978	29.784	81.6	85.5	75.5	80.5	87	70	73	75	75	80	78	.802	.802	9.63	2.72	5.4	.....	5.4
September.....	29.867	29.952	29.684	80.3	84.4	74.1	79.2	87	70	73	78	78	80	78	.802	.802	11.64	6.40	5.2	.....	5.1
October.....	29.839	29.985	29.706	79.9	85.5	73.8	79.6	88	71	72	78	78	80	78	.792	.792	2.27	.89	3.8	.....	4.0
November.....	29.847	29.948	29.767	78.8	85.1	72.5	78.8	89	69	71	76	76	80	78	.751	.751	1.63	1.07	2.3	.....	3.2
December.....	29.903	30.037	29.862	77.3	83.1	71.6	77.4	88	66	70	78	78	80	78	.721	.721	15.40	10.55	4.7	.....	5.5
Year.....	29.912	30.100	29.684	78.1	82.9	72.3	77.6	90	62	70	75	75	80	78	.722	.722	70.71	10.55	5.1	.....	4.8

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

SAN LUIS OBISPO, CAL.

[$\phi=35^{\circ} 18' N.$; $\lambda=120^{\circ} 39' W.$]

Month.	Pressure.			Temperature.							Moisture.										
	Monthly mean.	Extremes.		Mean.			Extremes.		Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.						
		Maximum.	Minimum.	s a. m.	s p. m.	Maximum.	Minimum.	Monthly.		Maximum.	Minimum.	s a. m.	s p. m.		s a. m.	s p. m.	Total.	Maximum in 24 hours.	s a. m.	s p. m.	Daylight.
January.....	29.951	30.250	29.475	42.7	54.1	58.5	39.8	49.2	76	29	36	41	80	64	0.220	0.258	3.48	1.14	3.1	4.8	6.0
February.....	29.979	30.082	29.756	46.6	57.9	61.7	43.0	52.4	77	27	38	42	74	58	0.234	0.273	3.43	1.26	3.1	4.4	5.6
March.....	29.857	30.060	29.550	50.5	60.5	66.0	47.0	56.5	84	38	45	49	84	68	0.306	0.345	3.81	1.35	3.8	5.1	6.0
April.....	29.854	30.003	29.702	50.4	62.6	69.2	47.4	58.3	96	42	45	49	82	64	0.298	0.346	2.23	1.13	3.1	3.1	3.8
May.....	29.819	29.927	29.578	51.1	65.0	72.8	48.2	60.5	97	37	45	50	81	61	0.298	0.358	T.	T.	3.8	2.5	4.2
June.....	29.771	29.900	29.614	49.3	62.3	70.0	47.4	58.7	86	43	44	49	84	63	0.295	0.351	0	0	4.5	1.3	3.5
July.....	29.730	29.845	29.568	53.1	63.4	74.7	51.5	63.1	88	42	48	53	84	56	0.335	0.399	T.	T.	7.2	1.4	3.8
August.....	29.748	29.833	29.583	50.7	69.9	74.6	49.9	62.2	88	43	47	52	87	53	0.320	0.386	0	0	6.9	0.5	3.2
September.....	29.732	29.850	29.566	53.7	69.0	77.3	50.4	63.8	99	42	46	51	79	56	0.315	0.382	4.41	1.41	6.1	1.7	4.1
October.....	29.789	29.985	29.562	53.3	70.5	77.5	50.5	64.0	95	42	48	48	79	51	0.310	0.346	3.30	1.13	2.1	2.4	3.6
November.....	29.859	30.028	29.663	50.1	60.7	67.0	46.9	57.0	80	33	43	47	79	62	0.281	0.327	2.27	0.23	4.0	4.8	5.7
December.....	29.913	30.046	29.740	47.8	61.1	65.5	44.5	55.0	79	33	39	42	74	54	0.245	0.290	0.95	0.77	3.8	5.2	6.0
Year.....	29.834	30.250	29.475	49.9	63.6	69.6	47.2	58.4	99	27	44	48	81	59	0.288	0.338	9.88	1.35	4.3	3.1	4.6

SANTA FE, N. MEX.

[$\phi=35^{\circ} 41' N.$; $\lambda=105^{\circ} 57' W.$]

January.....	23.261	23.567	22.941	24.7	31.7	40.4	19.7	30.0	56	-7	15	19	65	61	0.094	0.112	0.76	0.22	2.9	3.6	3.2
February.....	23.193	23.526	22.869	22.8	34.7	41.7	18.2	30.0	66	-3	10	15	57	42	0.068	0.082	0.68	0.04	2.3	4.2	3.3
March.....	23.303	23.490	22.971	36.0	53.1	59.1	32.4	45.8	69	20	20	19	52	28	0.109	0.103	0.55	0.53	1.8	4.4	2.9
April.....	23.255	23.522	22.834	37.9	56.0	60.7	34.4	47.6	75	18	22	22	54	32	0.121	0.120	0.99	0.44	2.2	5.1	3.3
May.....	23.289	23.491	23.007	48.3	65.2	69.5	42.8	56.2	84	34	29	26	40	25	0.164	0.147	0.30	0.21	3.4	6.0	4.2
June.....	23.307	23.466	23.130	59.1	73.1	78.8	52.5	65.6	98	44	36	36	46	30	0.224	0.218	0.56	0.19	1.9	5.2	3.7
July.....	23.364	23.523	23.189	62.2	76.8	82.8	57.5	70.2	88	47	45	42	55	32	0.301	0.280	0.82	0.26	2.1	6.7	4.4
August.....	23.381	23.563	23.249	58.8	72.9	79.5	56.2	67.8	85	48	49	47	71	43	0.352	0.328	1.91	0.84	3.6	7.0	4.5
September.....	23.377	23.577	23.160	52.6	69.6	75.4	50.9	63.2	85	43	41	40	65	36	0.262	0.264	1.12	0.55	1.9	4.2	3.3
October.....	23.340	23.566	23.094	39.9	53.1	62.2	35.9	49.5	80	20	29	29	69	44	0.141	0.162	0.40	0.17	2.9	3.5	3.0
November.....	23.274	23.474	23.063	33.4	41.4	53.4	24.5	36.0	63	24	27	25	56	33	0.145	0.145	0.56	0.56	2.3	3.5	2.9
December.....	23.263	23.464	22.854	24.8	32.0	43.2	20.9	32.0	56	7	14	19	62	58	0.081	0.103	0.30	0.14	2.5	3.7	3.5
Year.....	23.299	23.577	22.834	41.7	55.0	62.2	37.7	50.0	88	-7	28	28	58	41	0.170	0.171	8.65	0.84	2.5	4.8	3.5

SAULT STE. MARIE, MICH.

[$\phi=46^{\circ} 30' N.$; $\lambda=84^{\circ} 21' W.$]

January.....	29.337	30.090	28.573	13.6	18.2	23.7	8.0	15.8	35	-15	11	14	87	82	0.074	0.084	1.15	0.45	8.1	6.6	8.3
February.....	29.390	29.815	28.925	3.6	14.0	20.5	-1.0	9.8	34	-23	-1	10	80	81	0.048	0.072	1.56	0.51	5.2	5.6	5.5
March.....	29.300	29.573	28.793	25.1	33.2	40.8	19.9	30.4	64	-1	21	27	82	76	0.125	0.150	3.00	1.0	6.1	5.0	5.9
April.....	29.258	29.618	28.792	38.3	42.4	50.5	33.4	42.0	72	26	34	35	84	75	0.199	0.206	2.53	0.77	6.7	6.0	6.9
May.....	29.311	29.893	28.834	43.0	47.4	54.5	36.8	45.6	74	28	38	36	82	68	0.231	0.218	3.63	1.13	6.5	6.0	5.6
June.....	29.308	29.553	28.840	56.3	64.6	73.1	48.7	60.9	87	35	51	50	82	61	0.386	0.380	0.70	0.28	3.7	4.6	4.1
July.....	29.234	29.582	28.882	60.7	67.2	76.2	53.6	64.9	88	46	55	55	82	67	0.438	0.441	1.69	0.66	4.8	4.5	4.5
August.....	29.304	29.663	28.930	58.4	62.5	70.9	52.8	61.8	84	43	55	55	90	77	0.443	0.442	2.88	0.87	7.2	6.4	6.7
September.....	29.389	29.752	28.958	49.3	55.6	63.3	45.1	54.2	75	38	46	48	89	78	0.318	0.347	3.11	1.60	6.7	4.1	6.2
October.....	29.277	29.675	28.808	41.8	47.3	54.3	37.7	46.0	78	25	38	42	86	81	0.238	0.277	2.53	1.12	6.8	5.2	7.4
November.....	29.218	29.706	28.848	29.7	31.8	34.5	26.5	30.5	45	19	25	27	81	82	0.135	0.147	2.84	0.71	8.9	9.0	9.8
December.....	29.330	29.929	28.646	13.6	17.5	23.0	8.0	15.5	36	-13	10	13	83	82	0.072	0.085	1.33	0.44	7.8	7.5	8.2
Year.....	29.305	30.090	28.573	36.1	41.8	48.8	30.8	39.8	88	-23	32	34	84	76	0.226	0.237	24.25	1.13	6.5	5.9	6.6

SAVANNAH, GA.

[$\phi=32^{\circ} 5' N.$; $\lambda=81^{\circ} 5' W.$]

January.....	30.145	30.661	29.381	44.2	50.6	59.8	40.0	49.9	72	29	37	39	76	65	0.294	0.283	1.03	0.49	5.9	3.8	5.0
February.....	30.145	30.473	29.664	45.3	51.4	59.1	42.5	50.5	73	30	38	42	75	72	0.255	0.296	3.13	1.39	6.4	5.9	6.1
March.....	30.061	30.315	29.810	54.9	61.3	72.2	52.5	62.4	85	34	48	50	80	69	0.364	0.380	2.16	1.01	2.2	2.2	2.3
April.....	29.932	30.179	29.678	60.0	65.2	76.0	55.3	65.6	90	38	53	54	78	69	0.415	0.434	1.37	0.78	3.6	3.1	3.8
May.....	29.699	30.276	29.601	68.8	72.0	81.5	64.1	72.8	92	54	60	60	74	68	0.530	0.513	1.17	0.64	4.3	4.5	4.6
June.....	29.922	30.091	29.678	74.1	76.4	85.2	69.3	77.2	99	60	67	68	80	76	0.673	0.685	0.73	1.13	5.4	4.4	5.8
July.....	29.958	30.178	29.752	76.7	78.2	89.4	71.5	80.4	97	64	72	72	85	82	0.777	0.784	0.68	2.31	5.1	7.1	5.8
August.....	29.940	30.064	29.769	76.1	77.9	86.7	71.9	79.3	94	67	72	73	88	84	0.802	0.802	1.76	3.56	5.3	5.9	5.5
September.....	29.955	30.150	29.944	72.0	75.6	85.0	68.4	76.7	95	56	68	69	88	81	0.706	0.731	3.64	1.30	4.4	2.6	4.3
October.....	29.957	30.471	29.277	64.9	69.0	77.6	61.1	69.4	89	34	61	62	88	79	0.575	0.568	4.65	2.42	2.9	2.1	3.3
November.....	29.940	30.243	29.607	49.8	57.1	65.4	45.8	55.6	76	36	45	46	84	89	0.309	0.324	2.74	1.55	3.4	2.1	3.1
December.....	29.919	30.522	29.563	41.2	47.9	56.0	36.8	46.4	71	25	36	39	83	71	0.229	0.247	1.56	0.78	3.2	2.5	3.4
Year.....	30.009	30.661	29.277	60.7	65.3	74.5	56.6	65.5	99	25	55	56	82	74	0.488						

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

SANDUSKY, OHIO.

[H=629 ft.; h₁=62 ft.; h₂=35 ft.; h₃=70 ft.]

Month.	Wind.										Number of days.																	
	By self-register.					Number of winds, 8 a. m. and 8 p. m.					Precipitation.	Snow.	Maximum temp.	32° or below.	90° or above.	Minimum temperature below.	Thunderstorms.	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.	T. or more.	0.01 inch or more, melted.	Hail.	Fog.	32° or below.	90° or above.	Minimum temperature below.	Thunderstorms.	Auroras.
January....	9.0	SW.	34	NW.	0	1	2	1	1	1	11	9	5	0	3	7	21	15	12	20	13	0	0	17	0	30	0	0
February....	9.4	SW.	31	N.	0	2	2	0	1	3	7	6	7	0	8	7	13	12	9	12	8	0	0	13	0	20	0	0
March....	8.3	SW.	36	NW.	0	1	2	4	4	5	6	4	5	0	15	11	5	2	1	5	1	1	1	1	13	1	1	
April....	8.4	SW.	30	NW.	0	2	2	4	2	7	7	3	3	0	10	9	11	16	13	4	3	0	0	0	0	0	0	0
May....	8.5	W.	32	NW.	0	5	3	2	4	5	4	7	7	1	0	8	11	12	14	10	0	0	2	2	0	0	0	
June....	6.6	W.	25	N.	0	1	3	6	1	1	3	12	3	0	16	4	10	6	6	6	0	0	0	0	0	0	0	0
July....	7.4	SW.	34	N.	0	3	4	4	1	1	7	7	1	0	18	8	5	10	7	7	0	0	0	0	0	0	0	0
August....	7.0	SW.	28	NW.	0	1	2	2	1	1	4	10	2	1	0	14	11	6	7	6	0	0	0	0	0	0	0	0
September....	6.8	NW.	25	N.	0	2	2	1	2	2	6	10	2	1	0	13	8	8	8	8	0	0	0	0	0	0	0	0
October....	8.4	SW.	32	W.	0	5	1	2	2	1	7	6	8	1	0	15	9	7	7	5	2	2	2	2	0	0	0	0
November....	10.7	W.	30	NW.	0	2	1	1	1	3	4	10	8	0	4	22	13	9	13	5	0	0	1	0	1	1	1	0
December....	9.6	SW.	32	NW.	0	0	2	2	0	3	2	13	5	6	0	5	7	19	15	10	20	14	0	1	18	0	31	0
Year..	8.3	SW.	36	NW.	0	25	28	24	23	53	93	78	41	0	129	97	139	130	96	70	45	1	4	50	6	114	29	0

SAN FRANCISCO, CAL.

[H=155 ft.; h₁=200 ft.; h₂=191 ft.; h₃=204 ft.]

January....	5.3	NW.	34	SE.	0	9	6	3	4	8	5	11	15	1	7	8	16	14	11	0	1	2	0	0	0	0	0	0	0
February....	6.9	W.	37	NE.	0	1	7	2	1	7	13	15	10	0	11	7	10	13	9	0	0	0	0	0	0	0	0	0	0
March....	7.0	W.	28	S.	0	2	4	1	7	9	14	20	4	1	13	10	8	11	7	0	0	5	0	0	0	0	0	0	0
April....	8.2	W.	30	SW.	0	3	0	0	0	3	7	38	8	1	20	5	5	4	3	0	0	0	0	0	0	0	0	0	0
May....	9.1	W.	36	W.	0	1	0	1	0	2	9	44	3	2	13	9	9	2	0	0	0	0	0	1	0	1	0	0	0
June....	11.9	W.	33	W.	0	0	0	0	0	1	13	38	8	0	21	8	1	1	0	0	0	0	0	0	0	0	0	0	0
July....	12.5	W.	32	W.	0	0	0	0	1	3	19	37	2	0	15	11	5	0	0	0	0	1	0	0	0	0	0	0	0
August....	11.9	W.	32	SW.	0	0	0	0	0	1	21	39	0	1	13	14	4	0	0	0	0	0	0	0	0	0	0	0	0
September....	9.2	W.	32	W.	0	2	0	0	0	1	13	37	4	1	12	10	8	2	1	0	0	0	0	0	0	0	0	0	0
October....	6.8	NW.	30	SW.	0	3	2	0	0	5	14	33	4	1	15	9	6	3	3	0	0	0	0	0	0	0	0	0	0
November....	5.7	W.	25	SE.	0	4	1	0	5	11	5	24	9	1	6	13	11	6	3	0	0	3	0	0	0	0	0	0	0
December....	4.2	NW.	29	N.	0	12	2	2	6	1	10	18	1	0	9	10	12	5	5	0	0	5	0	0	0	0	0	0	0
Year..	8.2	W.	37	NE.	0	35	32	9	20	58	134	346	85	11	156	114	95	61	42	0	1	28	0	1	0	0	0	0	0

SAN JOSE, CAL.

[H=141 ft.; h₁=12 ft.; h₂=3 ft.; h₃=110 ft.]

January....	4.8	SE.	35	S.	0	0	2	0	4	1	1	14	8	1	7	9	15	12	8	0	0	0	6	0	0	0	7	0	0	
February....	5.1	NW.	35	SW.	0	2	0	0	1	2	2	5	16	0	12	7	9	12	7	0	0	0	2	0	0	0	4	0	0	
March....	4.6	NW.	24	S.	0	2	0	0	5	0	3	3	18	0	10	11	10	12	8	0	0	8	0	0	0	0	0	0	0	
April....	4.2	NW.	32	S.	0	0	0	0	1	0	2	5	22	0	17	9	4	2	2	0	0	0	0	0	1	0	0	0	0	
May....	4.0	NW.	19	NW.	0	0	0	0	0	1	0	3	27	0	21	9	1	0	0	0	0	0	0	0	0	0	4	0	0	
June....	4.9	NW.	20	NW.	0	1	0	0	0	0	1	3	25	0	26	2	2	1	0	0	0	0	0	0	0	2	0	0	0	
July....	4.7	NW.	17	NW.	0	0	0	0	0	0	0	3	28	0	28	2	1	0	0	0	0	0	0	0	0	0	0	0	0	
August....	5.7	NW.	22	SE.	0	0	0	0	0	0	0	8	23	0	29	2	0	0	0	0	0	0	5	0	0	3	0	0	0	
September....	5.0	NW.	23	NW.	0	1	0	0	0	0	1	13	37	3	21	10	2	2	1	0	0	0	0	0	0	0	0	0	0	0
October....	5.2	NW.	24	SW.	0	1	0	0	1	0	1	4	24	0	15	7	6	2	2	2	0	0	0	0	0	0	1	0	0	
November....	4.4	NW.	21	NW.	0	0	0	0	1	0	1	4	24	0	12	12	6	3	2	0	0	0	0	0	0	0	0	0	0	
December....	4.3	SE.	20	W.	0	0	1	0	1	1	2	13	13	0	10	9	12	8	2	0	0	0	10	0	0	5	0	0	0	
Year..	4.7	NW.	35	S.	0	7	3	0	14	6	14	69	251	1	211	86	68	54	32	0	0	0	48	0	11	16	0	0	0	

SAN JUAN, P. R.

[H=82 ft.; h₁=48 ft.; h₂=40 ft.; h₃=90 ft.]

January....	12.6	NE.	34	NE.	0	1	30	9	10	6	4	1	1	0	9	13	9	26	18	0	0	0	0	0	0	0	0	1	0	
February....	14.3	NE.	33	E.	0	2	18	25	4	3	2	0	2	0	7	15	6	15	14	0	0	0	0	0	0	0	0	0	0	
March....	10.6	NE.	31	NE.	0	3	12	18	15	7	5	0	2	0	13	13	5	15	10	0	0	0	0	0	0	0	0	0	0	
April....	10.9	E.	27	E.	0	0	10	23	17	4	3	2	1	0	13	12	5	9	5	0	0	0	0	0	0	0	0	0	0	
May....	11.7	E.	33	SE.	0	0	13	42	7	0	0	0	0	0	9	16	6	16	10	0	0	0	0	0	0	0	0	4	0	
June....	13.6	E.	29	E.	0	0	4	44	12	0	0	0	0	0	11	12	7	21	18	0	0	0	0	0	0	1	0	3	0	
July....	13.4	E.	30	E.	0	0	1	25	4	0	1	0	0	0	14	12	5	15	12	0	0	0	0	0	0	0	0	6	0	
August....	12.7	E.	34	SE.	0	0	5	20	6	0	0	0	0	0	9	14	8	22	20	0	0	0	0	0	0	0	0	8	0	
September....	10.2	E.	72	NE.	2	0	4	9	13	3	1	0	0	0	12	10	8	24	16	0	0	0	0	0	0	0	0	7	0	
October....	7.6	E.	28	NE.	0	0	0	5	13	1	1	0	0	0	17	7	7	12	8	0	0	0	0	0	0	0	0	0	5	0
November....	6.5	S.	23	SE.	0	0	2	1	10	6	1	0	0	0	21	5	4													

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

SAN LUIS OBISPO, CAL.

[H=201 ft.; h₁=47 ft.; h₂=40 ft.; h₃=34 ft.]

Month.	Wind.											Number of days.															
	By self-register.				Number of winds, 8 a. m. and 8 p. m.							Partly cloudy.	Cloudy.	Precipitation.		Snow.		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.	0.01 inch and over.	0.04 inch and over.	T. or more.	0.01 inch or more melted.	Hail.	Fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January...	5.2	N.	24	S.	0	20	4	2	4	7	6	3	10	3	10	17	9	7	0	0	0	2	0	0	3	0	0
February...	6.3	N.W.	22	N.E.	0	16	4	1	1	1	15	15	0	0	0	14	9	4	0	0	1	0	0	0	0	0	
March...	5.5	S.	30	S.E.	0	11	11	12	12	3	3	9	10	2	8	18	11	8	0	0	8	0	0	0	0	0	
April...	6.0	N.W.	24	W.	0	15	0	0	0	3	18	16	10	3	18	6	4	3	0	0	1	0	3	0	0	0	
May...	6.5	N.W.	24	W.	0	16	1	0	0	0	21	16	11	2	13	12	6	0	0	0	2	2	2	0	0	0	
June...	6.5	N.W.	20	W.	0	17	1	0	0	0	15	12	3	0	15	12	3	0	0	0	5	0	0	0	0	0	
July...	4.7	N.W.	20	W.	0	10	2	2	2	5	17	19	0	0	18	10	3	0	0	0	1	0	0	0	0	0	
August...	3.9	N.W.	18	N.W.	0	7	1	0	0	1	11	19	0	0	23	8	0	0	0	0	0	0	0	0	0	0	
September...	4.2	N.W.	14	N.W.	0	14	0	3	3	1	11	25	0	0	16	9	0	0	0	0	0	0	0	0	0	0	
October...	4.6	N.W.	22	N.W.	0	15	3	1	2	7	7	21	0	1	17	8	6	0	0	0	5	0	4	0	0	0	
November...	4.9	N.	21	N.	0	13	0	1	0	4	3	12	17	2	10	7	13	3	1	1	0	0	0	0	0	0	
December...	5.4	N.	24	N.	0	17	6	1	6	3	3	12	14	0	7	10	14	5	0	0	3	0	0	0	1	0	
Year...	5.3	N.W.	30	S.E.	0	176	22	10	38	65	43	170	191	15	160	105	100	43	30	0	0	45	0	12	5	1	0

SANTA FE, N. MEX.

[H=7,013 ft.; h₁=8 ft.; h₂=3 ft.; h₃=56 ft.]

January...	9.3	NE.	38	SW.	0	14	22	5	6	2	5	3	5	0	18	9	4	9	7	5	4	0	0	5	0	27	1	0
February...	10.1	N.	37	N.	0	15	18	4	1	4	4	4	4	0	15	10	3	3	1	1	1	0	0	3	0	0	0	0
March...	9.4	NE.	43	SW.	2	7	22	6	9	3	6	3	3	0	23	6	2	3	1	4	4	0	0	0	0	15	4	0
April...	9.7	E.	45	N.	2	10	13	9	5	2	2	2	5	0	19	9	2	9	6	6	5	3	0	0	0	10	3	0
May...	9.8	NE.	39	E.	0	6	14	7	11	3	9	7	7	0	13	17	1	4	3	3	0	1	0	0	0	5	0	0
June...	9.7	SE.	43	SE.	3	0	15	8	17	3	6	6	3	0	14	14	2	7	4	4	0	0	0	0	0	11	0	0
July...	8.4	NE.	37	N.	0	4	19	12	11	2	3	6	6	0	11	19	1	8	4	4	0	0	0	0	0	20	0	0
August...	7.4	NE.	34	SW.	0	6	18	13	5	4	4	3	3	0	16	25	0	11	8	8	0	0	0	0	0	19	0	0
September...	8.6	SW.	38	SE.	0	0	17	9	11	7	9	3	2	0	16	9	2	2	4	4	1	1	0	0	0	9	2	0
October...	8.9	NE.	39	NE.	0	11	27	6	5	2	2	2	2	0	20	8	3	5	5	4	4	0	0	0	0	19	1	0
November...	8.5	NE.	36	NW.	0	6	35	8	3	2	4	3	1	0	16	14	1	5	3	0	5	0	4	0	0	30	0	0
Year...	8.9	NE.	45	N.	7	86	245	91	94	37	85	46	46	0	193	147	25	75	50	32	21	4	0	13	0	137	76	0

SAULT STE. MARIE, MICH.

[H=614 ft.; h₁=11 ft.; h₂=3 ft.; h₃=61 ft.]

January...	8.5	E.	44	W.	3	6	4	16	13	1	7	8	7	0	1	9	21	15	5	18	15	0	3	28	0	31	0	0
February...	8.4	SE.	38	NW.	0	1	7	7	10	2	10	11	8	0	9	8	11	12	10	15	12	0	1	23	0	0	28	0
March...	10.2	W.	45	NW.	1	1	11	10	3	7	16	12	12	1	11	4	16	7	3	6	2	2	6	0	0	1	1	0
April...	9.6	SE.	30	SE.	0	5	9	10	17	2	1	6	9	1	6	8	16	12	11	5	4	0	0	0	0	13	1	0
May...	10.7	NW.	40	W.	1	2	6	6	8	3	6	14	17	0	11	7	13	9	9	1	0	0	0	0	0	4	0	0
June...	6.9	W.	28	NW.	0	1	2	7	5	3	10	23	4	0	17	6	7	5	4	0	0	0	0	0	0	0	1	0
July...	7.3	W.	36	W.	0	0	8	10	6	1	5	21	11	0	11	15	5	10	9	7	0	0	0	0	0	0	5	0
August...	7.4	W.	45	NW.	1	1	4	14	10	2	4	3	19	0	7	8	16	11	11	0	0	0	0	0	0	0	6	0
September...	7.9	NE.	32	NW.	0	4	6	14	11	3	6	5	11	0	9	8	13	13	12	6	0	0	0	0	0	0	5	0
October...	10.1	NW.	48	NW.	0	7	11	10	8	0	1	3	20	0	5	9	17	11	9	1	1	0	3	0	0	6	3	0
November...	10.1	NW.	34	NW.	0	9	9	14	13	2	6	4	5	0	3	4	24	15	9	21	17	0	0	0	0	27	0	0
December...	8.9	E.	37	W.	0	9	9	14	13	2	6	4	5	0	3	4	24	15	9	23	15	0	0	0	0	31	0	0
Year...	8.8	NW.	48	NW.	7	41	73	131	122	24	72	129	136	2	90	87	188	137	100	90	65	2	10	90	0	168	22	2

SAVANNAH, GA.

[H=65 ft.; h₁=150 ft.; h₂=143 ft.; h₃=194 ft.]

January...	14.2	W.	42	W.	2	2	8	7	2	12	12	12	7	0	13	11	7	7	4	1	1	0	2	0	0	4	0	0
February...	13.7	S.	48	W.	1	8	6	5	5	11	6	9	6	0	9	4	15	11	9	0	0	0	2	0	0	3	5	0
March...	10.6	S.	30	NW.	0	7	2	6	10	13	5	10	9	0	24	3	4	3	3	0	0	0	4	0	0	0	1	0
April...	13.0	SW.	33	W.	0	2	4	2	3	17	12	16	4	0	17	8	5	6	5	0	0	0	1	0	0	0	4	0
May...	12.4	S.	43	SW.	1	3	4	7	3	23	13	7	2	0	13	12	6	7	6	0	0	1	0	0	3	0	6	0
June...	10.7	S.	30	W.	0	1	1	4	10	17	13	13	1	0	10	8	12	17	14	0	0	0	0	0	0	0	11	0
July...	10.9	SW.	45	W.	2	2	2	1	0	21	18	15	3	0	6	16	9	13	12	0	0	0	0	0	17	0	17	0
August...	9.8	S.	40	S.	1	6	11	2	16	13	5	7	2	0	8	13	10	15	9	0	0	0	0	0	9	0	6	0
September...	9.3	NE.	32	NE.	0	7	12	7	3	13	7	3	2	0	14	10	7	12	6	0	0	0	0	0	0	0	0	0
October...	12.1	W.	70	NE.	2	10	12	4	11	9	2	6	2	0	18	7	8	8	8	0	0	0	1	0	0	0	0	0
November...	12.6	W.	38	NW.	0	5	4	1	1	8	8	19	14	0	21	4	5	8	5	0	0	0	0	0	0	0	0	0
December...	13.2	W.	42	W.	1	6	8	5	2	9	7	13	7	0	17	8	6	6	0	0	0	0	0	0	0	11	0	0
Year...	11.9	S.	70	NE.	10	59	80	51	66	165	108	135	65	1	170	104	91	110	90	1	1	1	11	0	39	18	56	0

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

SCRANTON, PA.

[$\phi=41^{\circ} 24' N.$; $\lambda=75^{\circ} 42' W.$]

Month.	Pressure.			Temperature.						Moisture.											
	Monthly mean.	Extremes.		Mean.			Extremes.			Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.					
		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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
January.....	29.216	29.897	28.446	24.4	28.8	35.2	19.5	27.4	50	-1	19	21	79	71	0.107	0.118	4.32	0.98	6.7	6.3	7.6
February.....	29.227	29.721	28.670	23.2	27.6	34.5	17.9	26.2	52	-4	17	18	76	65	0.106	0.111	3.94	1.13	5.0	6.3	5.7
March.....	29.205	29.512	28.639	37.0	45.7	55.2	33.2	44.2	83	18	30	33	77	61	0.179	0.197	7.77	4.43	5.6	3.1	4.6
April.....	29.070	29.405	28.716	47.8	53.9	62.6	41.4	52.0	83	32	43	41	83	66	0.287	0.270	3.41	1.27	5.6	5.7	6.0
May.....	29.129	29.559	28.664	54.1	59.1	67.6	47.2	57.4	83	34	46	48	76	68	0.332	0.355	2.96	1.25	5.2	6.2	5.4
June.....	29.098	28.380	28.652	61.9	68.5	74.7	55.0	65.2	90	40	54	58	77	71	0.449	0.505	3.05	0.81	6.1	6.5	6.2
July.....	29.087	29.349	28.873	69.2	75.5	84.2	61.5	72.2	93	53	68	69	64	64	0.498	0.586	1.09	0.51	3.5	3.9	5.1
August.....	29.225	29.498	28.849	64.2	71.1	79.0	58.3	68.6	90	44	59	62	85	72	0.513	0.558	2.51	0.94	5.5	5.2	6.3
September.....	29.247	29.474	28.982	59.8	66.4	74.1	55.4	64.8	86	43	55	56	85	71	0.453	0.470	4.45	1.61	5.6	5.0	5.9
October.....	29.171	29.553	28.730	48.9	55.8	64.7	44.2	54.4	84	26	45	48	87	74	0.321	0.359	8.5	3.8	4.4	3.5	4.0
November.....	28.976	29.452	28.653	35.0	37.1	41.7	31.7	36.7	64	23	30	32	83	80	0.170	0.180	5.64	3.18	8.4	8.1	8.3
December.....	29.186	29.831	28.515	22.2	25.0	30.7	16.9	23.8	50	3	18	18	80	75	0.099	0.103	3.35	1.12	7.5	6.5	6.8
Year.....	29.153	29.897	28.446	45.6	51.3	58.7	40.2	49.5	93	-4	40	42	80	70	0.292	0.318	36.34	3.18	5.7	5.6	6.0

SEATTLE, WASH.

[$\phi=47^{\circ} 38' N.$; $\lambda=122^{\circ} 20' W.$]

January.....	29.911	30.570	29.109	37.4	41.0	43.3	34.7	39.0	55	22	34	34	86	78	0.199	0.206	5.08	1.03	8.0	8.5	7.8
February.....	29.972	30.531	29.176	35.8	40.6	43.5	33.1	38.3	50	24	33	35	88	81	0.187	0.209	5.03	1.44	7.7	7.7	8.1
March.....	29.972	30.375	29.548	43.1	52.6	54.3	40.8	47.6	67	31	41	42	92	70	0.259	0.273	1.80	4.2	5.7	6.3	6.6
April.....	29.985	30.370	29.485	43.8	54.6	56.4	42.4	49.4	83	35	41	42	90	66	0.259	0.271	2.41	5.2	7.5	7.0	7.1
May.....	29.997	30.377	29.658	49.5	63.1	65.4	48.7	57.0	77	43	47	47	90	57	0.318	0.322	1.88	8.0	5.5	4.6	5.2
June.....	29.944	30.272	29.589	50.9	63.2	65.0	50.0	57.5	84	46	48	49	89	61	0.331	0.349	0.82	34	7.3	6.2	6.8
July.....	29.936	30.102	29.667	54.6	69.8	71.4	53.8	62.6	86	48	52	56	91	62	0.388	0.451	0.01	0.01	6.3	2.5	4.6
August.....	29.906	30.308	29.742	53.6	66.4	67.7	52.7	60.2	82	47	51	52	89	65	0.377	0.419	0.17	0.09	7.5	4.3	5.9
September.....	29.949	30.152	29.695	52.8	63.0	64.8	51.1	58.0	75	47	50	51	92	68	0.366	0.383	1.04	0.97	6.8	7.8	8.5
October.....	29.954	30.333	29.227	50.2	55.5	57.7	47.8	52.8	66	36	48	50	95	83	0.346	0.366	4.02	1.09	6.8	7.8	8.5
November.....	29.865	30.132	29.306	44.0	47.2	49.8	41.2	45.5	60	32	42	42	92	84	0.268	0.276	8.47	2.25	8.3	8.4	8.9
December.....	29.916	30.432	29.547	41.9	44.3	46.7	39.0	42.8	57	32	40	42	93	90	0.248	0.263	3.47	0.55	6.5	7.8	8.5
Year.....	29.959	30.570	29.109	46.5	55.1	57.2	44.6	50.9	86	22	44	45	91	72	0.296	0.316	34.20	2.25	7.0	6.4	7.0

SHERIDAN, WYO.

[$\phi=44^{\circ} 48' N.$; $\lambda=106^{\circ} 57' W.$]

January.....	26.074	26.503	25.556	14.1	22.5	31.5	7.3	19.4	55	-27	9	14	79	70	0.068	0.086	0.31	0.29	4.6	5.8	4.4
February.....	26.090	26.517	25.369	9.5	20.4	28.5	3.0	15.8	52	-23	5	12	85	70	0.056	0.079	0.23	0.05	4.2	6.3	4.4
March.....	26.103	26.421	25.577	32.6	55.1	60.9	29.5	45.2	78	22	25	27	74	35	0.135	0.149	0.36	0.35	3.8	4.1	3.8
April.....	26.082	26.415	25.516	37.6	62.1	67.2	34.4	50.8	85	22	28	27	69	31	0.158	0.151	1.19	0.62	3.9	5.3	4.0
May.....	26.132	26.376	25.815	43.6	61.9	65.8	38.5	52.2	82	26	38	37	80	44	0.229	0.224	1.93	0.79	4.6	4.9	4.9
June.....	26.050	26.411	25.685	54.0	75.0	80.0	47.2	63.6	99	31	43	40	68	33	0.282	0.259	0.43	2.0	3.7	5.9	4.3
July.....	26.107	26.330	25.744	58.5	81.8	87.5	53.0	70.2	102	40	46	43	66	29	0.318	0.291	0.66	3.0	3.4	6.0	5.5
August.....	26.139	26.505	25.765	49.0	76.2	81.3	44.7	63.0	96	26	39	36	71	26	0.241	0.215	0.42	0.29	2.5	4.5	6.0
September.....	26.171	26.555	25.793	44.1	62.7	68.9	41.9	55.4	87	24	40	42	87	52	0.254	0.281	1.79	0.54	5.2	6.3	6.3
October.....	26.140	26.619	25.648	36.0	53.5	64.7	31.9	48.3	87	16	31	34	82	62	0.178	0.201	1.64	0.52	3.6	4.3	5.3
November.....	26.087	26.541	25.734	27.6	35.4	44.2	23.9	34.0	65	10	25	29	88	78	0.134	0.163	0.84	0.31	5.2	5.0	7.1
December.....	26.117	26.458	25.697	19.9	27.3	37.3	14.4	25.8	47	-5	16	21	85	76	0.089	0.112	0.74	0.44	5.0	4.1	5.7
Year.....	26.108	26.619	25.369	35.5	52.8	59.8	30.8	45.3	102	-27	29	30	78	50	0.178	0.184	10.54	0.79	4.1	5.2	5.1

SHREVEPORT, LA.

[$\phi=32^{\circ} 30' N.$; $\lambda=93^{\circ} 40' W.$]

January.....	29.924	30.356	29.428	42.3	54.1	59.5	39.4	49.4	78	20	37	38	81	57	0.241	0.253	2.67	1.19	4.8	3.2	4.7
February.....	29.903	30.315	29.549	39.4	49.5	55.6	36.0	45.8	72	12	34	38	82	68	0.215	0.247	4.53	1.68	6.1	5.1	6.3
March.....	29.853	30.015	29.524	54.8	70.1	75.7	53.7	64.7	88	39	48	49	80	50	0.350	0.360	2.84	1.69	2.6	3.1	3.2
April.....	29.720	30.002	29.363	57.0	69.9	75.2	53.8	64.5	86	34	50	50	78	52	0.384	0.385	1.61	0.86	3.8	4.3	4.2
May.....	29.736	29.995	29.476	63.8	76.4	80.3	61.3	70.8	90	52	57	58	80	55	0.481	0.491	0.62	2.95	5.9	4.0	5.2
June.....	29.676	29.916	29.413	71.0	81.9	87.6	67.5	77.6	95	60	66	66	85	60	0.649	0.650	4.84	2.30	4.0	3.2	3.9
July.....	29.692	29.851	29.454	74.8	84.8	90.9	72.7	81.8	96	65	70	70	85	64	0.732	0.750	1.44	0.70	4.1	4.5	3.8
August.....	29.699	29.840	29.583	74.9	85.1	90.9	73.1	82.0	99	65	71	72	88	66	0.738	0.786	3.19	1.45	3.5	3.6	4.0
September.....	29.761	29.931	29.539	70.4	83.5	90.9	69.1	80.0	96	60	66	65	85	65	0.644	0.635	0.69	1.52	1.9	2.8	2.5
October.....	29.782	30.319	29.464	58.2	71.0	78.5	56.3	67.4	91	32	53	54	83	58	0.446	0.468	2.40	1.69	3.7	1.9	2.9
November.....	29.798	30.130	29.546	50.0	61.4	68.5	47.0	57.8	82	35	44	44	82	55	0.319	0.317	2.94	2.13	4.2	2.5	4.4
December.....	29.906	30.313	29.384	42.8	51.5	57.7	39.8	48.8	76	25	37	40	80	66	0.239	0.272	3.74	1.60	6.4	4.8	6.1
Year.....	29.788	30.356	29.363	58.3	69.9	75.9	55.8	65.9	99	12	53	54	82</								

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

SIOUX CITY, IOWA.

[$\phi=42^{\circ} 29' N.$; $\lambda=96^{\circ} 24' W.$]

Month.	Pressure.			Temperature.						Moisture.												
	Extremes.			Mean.			Extremes.			Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.						
	Monthly mean.	Maximum.	Minimum.	8 a. m.	8 p. m.	•	Maximum.	Minimum.	Monthly.		Maximum.	Minimum.	8 a. m.	8 p. m.		8 a. m.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
January.....	In. 28.869	In. 29.374	In. 28.116	15.1	21.0	26.0	10.5	18.2	42	-17	12	17	88	83	0.081	0.699	0.69	In. 0.39	In. 15	6.2	6.2	6.6
February.....	28.921	29.323	28.266	12.0	21.1	25.0	6.8	17.4	46	-11	9	14	87	72	0.070	0.283	.22	.15	4.5	4.2	4.8	
March.....	28.805	29.228	28.349	39.0	58.5	64.3	36.9	50.6	88	26	32	34	76	43	0.180	0.03	.03	0.3	2.6	4.4	4.2	
April.....	28.700	29.063	28.150	43.5	59.1	65.3	40.5	52.9	98	21	34	34	70	44	0.203	0.208	.82	0.70	5.0	5.8	5.4	
May.....	28.833	29.270	28.420	48.5	65.1	70.1	44.6	54.8	81	28	40	40	72	44	0.251	1.99	1.41	0.84	5.2	5.2	5.3	
June.....	28.792	29.006	28.585	63.1	70.9	75.0	50.9	59.3	70.1	94	42	54	73	48	0.434	3.52	3.08	1.74	4.3	4.3	4.7	
July.....	28.735	29.020	28.484	66.1	72.3	77.0	52.8	62.8	74.0	94	53	59	78	48	0.499	5.22	4.41	2.11	4.3	3.2	4.9	
August.....	28.780	29.113	28.498	62.7	76.5	80.5	60.0	70.2	93	44	58	60	84	59	0.548	2.76	2.87	2.2	5.5	4.8	4.9	
September.....	28.830	29.292	28.415	54.6	67.3	72.9	52.4	62.6	92	39	51	54	88	65	0.390	4.44	3.93	1.80	5.0	4.8	5.0	
October.....	28.784	29.190	28.345	45.8	60.7	68.3	43.6	66.0	88	25	39	42	78	52	0.258	2.89	.84	0.70	2.9	2.2	2.7	
November.....	28.838	29.300	28.362	27.9	37.2	43.0	24.6	33.8	60	12	22	26	79	62	0.119	1.37	.15	1.1	5.9	3.7	4.8	
December.....	28.885	29.406	28.537	19.7	26.3	31.6	15.5	23.6	44	-1	16	20	86	76	0.093	1.07	.32	0.22	5.0	5.1	5.8	
Year.....	28.814	29.406	28.116	41.5	59.3	65.3	38.1	48.7	98	-17	36	40	80	50	2.25	16.85	2.11	4.6	4.6	4.9	4.9	

SOUTHEAST FARALLON ISLAND, CAL.

[$\phi=37^{\circ} 42' N.$; $\lambda=123^{\circ} W.$]

January.....	30.126	30.432	29.557	48.9	51.0	45.3	48.2	56	39	47	46	91	91	0.314	2.64	0.89	6.9	6.2
February.....	30.184	30.285	29.922	50.3	51.9	46.8	49.4	57	40	47	40	90	90	0.329	1.71	0.49	5.8	6.0
March.....	30.032	30.296	29.677	51.4	52.6	48.4	50.5	57	44	49	49	91	91	0.353	3.49	1.37	6.3	6.5
April.....	30.065	30.258	29.835	52.3	53.6	48.7	51.2	60	45	50	50	90	90	0.356	2.25	0.24	5.4	5.7
May.....	30.026	30.145	29.821	54.1	55.5	50.9	53.2	63	45	50	50	87	87	0.361	0.07	0.07	4.7	5.2
June.....	29.991	30.148	29.775	53.2	54.1	50.4	52.2	60	48	49	49	87	87	0.351	0.03	0.02	3.2	3.4
July.....	29.931	30.029	29.730	53.2	54.1	50.4	52.2	58	48	52	52	88	88	0.360	0.03	0.01	5.5	7.3
August.....	29.952	30.060	29.784	53.3	54.7	50.4	53.6	63	48	50	50	90	90	0.363	0.00	0.00	5.7	6.7
September.....	29.954	30.047	29.772	53.5	54.4	50.6	52.5	59	47	51	51	92	92	0.373	0.01	0.01	5.3	6.5
October.....	30.010	30.203	29.807	53.7	55.3	51.2	53.2	66	47	51	51	92	92	0.378	0.39	0.29	4.0	5.3
November.....	30.066	30.218	29.806	53.0	54.9	50.7	52.8	60	48	48	48	86	86	0.344	0.38	0.34	3.0	5.7
December.....	30.131	30.260	29.888	52.7	55.0	50.5	52.8	62	47	48	48	86	86	0.339	1.20	0.73	4.2	4.7
Year.....	30.039	30.432	29.557	52.5	53.9	49.5	51.7	66	39	49	49	90	90	0.353	10.42	1.37	5.0	5.8

SPOKANE, WASH.

[$\phi=47^{\circ} 40' N.$; $\lambda=117^{\circ} 25' W.$]

January.....	28.015	28.544	27.423	26.0	31.1	33.5	23.0	28.2	48	3	22	24	84	75	0.123	0.134	1.28	0.28	8.1	8.1	8.2
February.....	28.044	28.515	27.349	23.3	31.2	33.3	26.5	26.9	44	-4	10	22	83	68	0.106	0.123	1.58	0.34	7.1	7.6	7.6
March.....	28.015	28.408	27.524	38.7	54.5	56.4	36.1	46.2	69	25	34	34	82	46	0.195	0.200	1.78	0.41	6.9	6.8	6.4
April.....	27.984	28.340	27.393	42.9	61.4	62.8	41.2	52.0	87	30	35	33	75	39	0.210	0.192	1.32	0.57	7.7	6.9	6.9
May.....	27.986	28.319	27.614	48.4	70.4	71.7	47.0	59.4	89	35	40	36	74	31	0.251	0.220	0.88	0.53	5.5	6.0	6.0
June.....	27.918	28.178	27.699	51.5	71.4	73.5	49.2	61.4	90	41	39	35	64	29	0.242	0.209	0.21	1.0	5.5	6.0	5.6
July.....	27.900	28.098	27.842	58.2	84.5	86.0	57.3	71.6	95	50	40	35	51	19	0.248	0.210	0.68	0.59	3.9	3.1	3.5
August.....	27.978	28.315	27.751	53.2	77.6	78.7	51.6	65.2	95	37	37	35	56	22	0.228	0.204	0.15	0.38	3.9	3.3	3.6
September.....	27.980	28.193	27.554	49.5	67.9	70.5	47.6	59.0	87	35	40	40	72	39	0.261	0.261	1.93	0.51	5.6	5.1	5.4
October.....	28.016	28.561	27.447	44.1	57.8	60.2	41.3	50.8	77	23	38	39	80	51	0.237	0.247	1.42	0.62	5.8	6.6	6.7
November.....	27.980	28.283	27.325	37.0	41.4	43.9	34.5	39.2	60	26	33	34	85	75	0.185	0.200	3.71	0.86	8.2	9.4	9.3
December.....	28.104	28.526	27.623	32.5	36.4	38.2	30.3	34.2	48	23	30	31	88	81	0.163	0.174	1.50	0.36	7.8	8.4	8.6
Year.....	27.993	28.561	27.349	42.1	57.1	59.1	40.0	49.5	95	-4	34	33	74	48	0.204	0.198	15.44	0.86	6.3	6.4	6.5

SPRINGFIELD, ILL.

[$\phi=39^{\circ} 48' N.$; $\lambda=89^{\circ} 39' W.$]

January.....	29.412	30.011	28.674	25.1	29.9	34.2	21.9	28.0	49	-1	21	23	82	75	0.117	0.130	1.68	0.90	6.6	6.4	5.7
February.....	29.469	29.881	28.914	21.4	29.4	34.8	17.7	26.2	63	-5	17	21	81	69	0.100	0.117	0.94	0.51	6.6	4.4	5.3
March.....	29.384	29.640	29.126	43.8	57.1	64.9	40.8	52.8	86	24	36	39	74	53	0.222	0.254	1.18	0.08	3.8	3.5	3.5
April.....	29.204	29.568	28.879	47.9	57.1	64.4	42.9	58.6	89	22	40	44	76	64	0.267	0.308	2.82	0.60	6.3	6.2	6.1
May.....	29.319	29.780	28.959	54.4	62.8	68.4	46.2	58.8	82	34	47	48	76	61	0.336	0.354	4.39	0.62	5.6	6.5	5.3
June.....	29.298	29.526	29.050	66.6	75.3	82.3	61.2	71.8	95	42	57	56	71	57	0.478	0.504	4.58	1.61	3.7	5.3	4.3
July.....	29.253	29.562	29.098	71.0	80.5	86.0	66.8	76.4	96	57	64	65	80	61	0.610	0.624	2.63	1.24	5.7	5.3	5.2
August.....	29.315	29.608	29.113	67.5	77.6	84.2	63.5	73.8	93	49	61	63	80	61	0.548	0.587	1.78	0.34	5.1	3.8	5.3
September.....	29.375	29.695	29.044	60.6	69.7	77.0	58.1	67.6	89	45	57	60	87	74	0.478	0.546	5.34	2.11	6.1	4.8	5.2
October.....	29.345	29.731	28.781	50.3	60.2	68.7	47.7	58.2	82	29	45	48	82	64	0.324	0.357	1.74	0.87	2.8	2.5	2.7
November.....	29.344	29.658	28.905	32.5	40.4	46.8	29.1	38.0	71	19	26	28	76	60	0.144	0.154	1.87	1.45	5.8	4.3	4.1
December.....	29.434	30.071	29.051	24.0	30.9	35.7	21.1	28.4	50	8	19	20	80	62	0.168	0.169	0.86	0.70	5.3	4.2	5.7
Year.....	29.346	30.071	28.674	47.1	55.9	62.3	43.3	52.8	96	-5	41	43	79	63	0.311	0.337	27.51	2.11	5.3	4.8	4.9

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

SCRANTON, PA.

[H=805 ft.; h₁=111 ft.; h₂=102 ft.; h₃=119 ft.]

Month.	Wind.													Number of days.														
	By self-register.				Number of winds, 8 a. m. and 8 p. m.									Precipitation.	Snow.			Maximum temp.	Elec- tricity.									
	Average hourly ve- locity.	Prevailing direc- tion.	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.										0.01 inch and over.	0.04 inch and over.	T. or more.			0.01 inch or more, melted.	Hail.	Fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.	
					North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.				Partly cloudy.	Cloudy.									
January	7.4	SW.	40	SE.	1	6	16	4	3	7	18	3	5	0	4	6	21	20	17	19	17	0	3	10	0	30	0	0
February	8.1	SW.	38	NW.	0	11	10	1	0	1	20	5	8	0	10	12	12	12	12	12	4	0	0	11	0	25	0	0
March	6.8	SW.	32	NW.	0	5	18	3	4	2	20	5	5	0	13	10	8	8	4	9	4	0	0	2	1	17	1	0
April	7.8	NE.	28	NW.	0	8	12	6	8	4	12	3	6	1	9	17	12	14	17	12	3	0	0	0	0	3	2	0
May	7.4	SW.	46	SW.	1	10	6	3	4	9	11	6	12	1	9	12	10	14	9	0	0	0	0	0	0	0	7	0
June	6.1	NE.	30	NW.	0	11	12	1	4	5	16	1	1	1	1	11	11	13	11	0	0	0	0	0	1	0	4	0
July	6.2	SW.	38	SW.	0	9	10	1	4	16	11	5	6	0	8	8	7	7	7	0	0	0	0	0	3	0	3	0
August	5.8	S.	30	SW.	0	10	5	5	6	8	14	2	2	0	6	6	5	5	0	0	0	0	0	0	0	0	4	0
September	5.3	N.	30	SW.	0	14	12	5	3	9	12	2	3	0	11	12	11	15	11	0	0	0	0	0	0	0	4	0
October	7.2	SW.	30	SW.	0	9	11	0	5	9	17	5	7	0	11	13	8	5	4	1	0	0	0	0	0	4	0	
November	7.1	SW.	23	SW.	0	12	8	0	0	5	19	8	5	0	2	5	23	13	12	16	10	0	0	1	18	0	0	
December	7.6	SW.	38	NW.	0	5	7	2	1	1	28	5	13	0	4	14	13	17	13	23	15	0	0	0	0	30	0	
Year	6.9	SW.	46	SW.	2	110	137	31	43	76	198	51	81	3	89	129	147	148	117	83	50	0	9	40	4	126	23	0

SEATTLE, WASH.

[H=123 ft.; h₁=185 ft.; h₂=179 ft.; h₃=224 ft.]

January	10.6	SE.	44	S.	3	7	0	8	23	16	3	1	4	0	4	7	20	22	19	7	6	0	0	0	0	8	0	0
February	9.2	SE.	40	SW.	1	6	5	7	11	11	6	2	8	0	1	12	15	18	14	10	9	0	0	2	7	1	1	0
March	8.1	S.	39	S.	0	12	5	4	7	11	10	6	7	0	4	15	12	15	11	0	0	0	0	1	0	1	1	0
April	7.9	S.	34	S.	0	8	5	2	9	11	10	9	3	3	6	6	18	14	11	0	0	0	0	2	0	0	0	1
May	7.7	S.	33	SW.	0	13	3	1	9	13	9	4	7	3	11	10	10	9	7	0	0	0	0	0	0	0	0	0
June	7.8	S.	40	SW.	1	5	5	6	9	10	6	9	9	1	5	10	15	8	4	0	0	0	0	0	0	0	2	0
July	6.7	N.	30	SW.	0	5	7	5	2	9	3	16	13	2	9	18	4	1	0	0	0	0	0	0	0	0	0	0
August	6.7	N.	25	N.	0	14	7	1	3	15	3	7	10	2	6	14	11	4	2	0	0	0	0	1	0	0	0	0
September	6.4	N.	28	SW.	0	12	4	6	7	7	5	8	7	4	2	17	11	6	4	0	0	0	6	0	0	0	0	0
October	8.9	S.	38	S.	0	12	5	5	12	18	3	2	4	1	2	6	23	19	14	0	0	0	6	0	0	0	0	0
November	8.8	SE.	40	SW.	1	4	3	10	15	20	5	1	2	0	0	6	24	18	16	0	0	0	4	7	0	0	0	
December	8.5	SE.	33	S.	0	3	6	9	19	18	6	1	0	0	1	6	24	17	14	1	0	0	0	0	0	0	0	
Year	8.1	S.	44	S.	6	101	55	64	126	159	69	66	74	16	51	127	187	151	116	18	15	0	35	1	0	20	2	1

SHERIDAN, WYO.

[H=3,790 ft.; h₁=10 ft.; h₂=2 ft.; h₃=47 ft.]

January	5.8	NW.	46	NW.	2	2	5	3	7	7	15	6	17	0	9	17	5	3	2	8	3	0	0	17	0	31	0	0
February	5.4	NW.	36	NW.	0	5	4	2	12	8	5	2	18	0	12	10	6	7	4	12	7	0	1	13	0	28	0	0
March	6.9	NW.	50	NW.	4	3	6	3	14	11	8	3	14	0	15	12	4	2	1	2	0	0	0	0	0	24	0	0
April	8.4	NW.	50	NW.	4	6	6	6	10	4	5	2	21	0	18	5	7	7	5	2	2	0	0	0	0	12	3	1
May	8.9	NW.	54	NW.	2	5	2	2	17	6	2	2	25	1	9	15	7	16	11	3	3	0	0	0	0	4	6	0
June	8.4	NW.	50	NW.	2	3	5	5	15	7	3	7	15	0	12	13	5	8	4	0	0	0	0	0	0	8	1	9
July	6.9	NW.	42	SW.	2	8	6	3	14	6	8	5	12	0	8	14	9	9	4	0	0	0	0	0	14	0	10	0
August	6.2	NW.	48	NW.	1	2	16	9	8	13	3	0	12	0	7	18	6	5	4	1	0	1	0	0	5	4	3	0
September	5.2	NW.	31	SW.	0	5	7	8	13	5	5	4	13	0	10	7	13	7	6	1	1	1	0	1	0	0	3	0
October	6.1	NW.	39	NW.	0	4	0	1	9	15	8	6	19	0	13	2	16	7	6	3	3	0	0	0	0	14	0	0
November	4.6	NW.	45	NW.	1	4	5	1	14	12	3	2	18	1	4	11	15	11	6	12	7	0	2	4	0	27	0	0
December	4.9	NW.	36	NW.	0	6	2	3	11	9	3	8	20	0	11	4	16	2	2	7	2	0	1	7	0	30	0	0
Year	6.6	NW.	54	NW.	18	53	63	46	144	103	68	47	204	2	128	128	109	84	55	51	27	1	5	41	27	178	34	1

SHREVEPORT, LA.

[H=249 ft.; h₁=68 ft.; h₂=59 ft.; h₃=74 ft.]

January	7.7	SE.	28	NE.	0	5	2	7	23	3	3	3	16	0	14	7	10	10	8	1	1	0	0	1	0	7	2	0
February	8.4	SE.	28	SE.	0	9	7	8	18	0	2	1	12	0	8	5	15	10	4	3	0	2	0	1	1	0	4	4
March	6.0	SE.	25	NW.	0	10	9	6	27	6	2	1	1	0	20	4	7	4	0	0	0	0	0	0	0	0	4	0
April	8.3	NW.	32	NW.	0	10	3	6	15	7	1	2	16	0	15	9	6	8	6	0	0	0	0	0	0	0	0	0
May	6.1	SE.	41	W.	1	5	6	8	23	13	1	3	3	0	11	9	11	9	6	0	0	0	0	0	1	0	8	0
June	6.1	SE.	28	NE.	0	2	13	11	16	14	2	0	2	0	14	12	4	7	7	0	0	1	0	0	10	0	9	0
July	5.3	SE.	41	N.	0	0	3	6	22	26	1	3	1	0	16	12	3	6	3	0	0	0	0	0	21	0	7	0
August	4.4	SE.	24	NW.	0	1	9	8	33	9	0	0	2	0	17	8	6	7	7	0	0	0	0	0	22	0	7	0
September	4.7	SE.	25	N.	0	1	14	18	20	6	0	0	0	1	21	9	0	3	3	0	0	1	0	0	22	0	3	0
October	5.6	SE.	24	N.	0	7	14	5	22	7	2	0	4	1	19	8	4	7	7	0	0	0	0	0	2	1	3	0
November	5.6	S.	28	NW.	0	4	18	4	8	18	4	2	2	0	15	7	8	6	6	0	0	1	0	0	0	0	2	0
December	8.6	SE.	28	NW.	0	4	5	14	15	10	0	1	13	0	10	7	14	9										

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

SIoux CITY, IOWA.

[H=1,135 ft.; h₁=94 ft.; h₂=86 ft.; h₃=164 ft.]

Month.	Wind.											Number of days.																				
	By self-register.				Number of winds, 8 a. m. and 8 p. m.							Precipitation.	Snow.	Thunderstorms.	Auroras.																	
	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.		T. or more.	0.01 inch or more melted.	Hail.	Fog.	32° or below.		Maximum temp. 32° or above.	Minimum temperature 32° or below.	Electricity.
																						0.01 inch and over.	T. or more.					32° or below.	90° or above.			
January	11.9	NW.	55	NW.	3	4	7	1	12	9	1	3	25	0	4	12	15	4	4	15	4	0	2	20	0	31	0	0	0	0		
February	14.1	NW.	60	NW.	1	8	3	3	10	9	1	1	20	1	10	10	8	3	2	9	9	0	0	18	0	0	0	0	0	0		
March	12.8	S.	52	NW.	4	8	6	4	4	17	4	2	15	0	15	8	8	1	0	0	0	0	2	0	0	0	11	0	0	0		
April	17.1	N.	65	N.	7	12	4	1	12	10	2	0	18	1	10	12	8	4	4	4	4	2	1	1	1	1	6	3	1	0		
May	13.7	N.	38	NE.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
June	11.5	SE.	46	S.	2	2	2	3	12	4	1	0	4	2	13	9	8	10	6	0	0	0	1	0	9	0	6	0	0	0		
July	9.9	SE.	54	S.	1	7	10	8	11	11	3	4	8	0	13	9	9	8	8	0	0	0	0	0	4	0	9	0	0	0		
August	9.7	S.	65	N.	4	9	8	5	12	16	3	3	0	12	10	6	9	9	9	7	7	0	0	0	3	0	8	0	0	0		
September	11.2	S.	39	NW.	0	11	9	3	13	12	3	3	6	0	12	6	6	12	9	9	0	0	2	0	1	0	0	0	0	0		
October	12.9	S.	46	N.	1	11	4	3	13	14	3	1	12	1	21	7	7	4	4	2	0	0	0	0	0	9	0	3	2	0		
November	12.2	NW.	49	SE.	1	10	3	5	10	5	1	1	0	25	1	13	12	5	2	2	5	5	0	0	0	5	0	25	0	0		
December	12.5	NW.	44	S.	2	2	3	2	10	12	1	1	7	0	21	0	0	0	0	0	0	0	0	0	15	0	31	0	0	0		
Year..	12.5	NW.	65	N.	28	96	64	42	122	124	24	22	166	9	142	116	107	69	53	43	13	1	8	62	18	136	38	1	0	0		

SOUTHEAST FARALLON ISLAND, CAL.

[H=30 ft.; h₁=9 ft.; h₂=3 ft.; h₃=17 ft.]

January	13.8	N.	60	N.	7	7	3	2	0	5	5	2	7	0	6	13	12	15	10	0	0	0	0	1	0	0	0	0	0	0	0
February	13.0	NW.	68	N.	5	5	0	1	1	5	2	4	10	0	6	15	7	12	7	0	0	0	0	2	0	0	0	0	0	0	0
March	18.1	NW.	56	S.	5	4	0	0	0	0	10	2	1	14	0	7	7	9	9	0	0	0	0	4	0	0	0	0	0	0	0
April	16.7	NW.	56	NW.	0	0	0	0	0	2	2	3	21	0	8	10	12	2	2	0	0	0	0	4	0	0	0	0	0	0	0
May	14.8	NW.	58	NW.	5	1	0	0	0	0	1	4	6	19	0	11	10	4	1	0	0	0	0	4	0	0	0	0	0	0	0
June	20.7	NW.	54	NW.	10	5	0	0	0	0	1	0	2	22	0	18	4	8	2	0	0	0	0	3	0	0	0	0	0	0	0
July	15.4	NW.	42	NW.	2	0	0	0	0	2	2	4	23	0	6	4	21	3	0	0	0	0	0	4	0	0	0	0	0	0	0
August	15.3	NW.	48	NW.	4	1	0	0	0	3	5	1	21	0	6	9	16	0	0	0	0	0	1	0	0	0	0	0	0	0	0
September	14.3	NW.	46	NW.	2	2	0	0	0	0	1	2	5	20	0	9	3	18	1	0	0	0	0	8	0	0	0	0	0	0	0
October	14.2	NW.	45	N.	4	4	6	0	0	2	1	3	19	0	10	10	11	6	2	0	0	0	12	0	0	0	0	0	0	0	0
November	11.9	NW.	44	NW.	0	9	0	1	0	2	0	1	4	15	0	12	10	4	4	0	0	0	0	0	0	0	0	0	0	0	0
December	13.9	N.	51	N.	5	8	2	1	3	0	1	4	1	15	0	10	13	8	6	4	0	0	10	0	0	0	0	0	0	0	0
Year..	15.2	NW.	68	N.	58	44	5	5	4	35	30	36	206	0	105	110	150	66	39	0	0	0	61	0	0	0	0	0	0	0	0

SPOKANE, WASH.

[H=1,929 ft.; h₁=101 ft.; h₂=94 ft.; h₃=110 ft.]

January	6.8	S.	36	SW.	0	6	6	10	3	15	11	6	5	0	3	5	23	16	12	15	9	0	0	15	0	26	0	0	0	0
February	6.8	E.	38	SW.	0	3	12	14	2	7	14	8	1	0	5	5	18	15	11	17	13	0	1	10	0	26	0	0	0	0
March	6.7	SW.	33	SW.	0	2	12	8	3	13	16	4	4	0	7	10	14	10	3	2	1	3	1	0	0	8	0	0	0	0
April	7.5	SW.	33	S.	0	0	10	2	7	15	20	2	4	0	5	9	16	9	6	1	1	1	1	0	0	3	0	0	0	0
May	7.0	SW.	27	SW.	0	0	5	7	1	17	20	5	7	0	6	15	10	5	3	0	0	0	0	0	0	9	0	1	0	0
June	7.4	SW.	35	SW.	0	1	8	3	4	15	21	3	5	0	8	12	10	4	2	0	0	0	0	0	0	1	0	1	0	1
July	6.4	SW.	42	SW.	1	2	5	5	5	13	16	6	10	0	16	12	3	3	2	0	0	0	0	0	0	9	0	1	0	0
August	5.7	SW.	26	SW.	0	0	7	6	6	3	8	19	6	6	1	16	9	6	2	1	0	0	0	0	0	2	0	1	0	0
September	5.6	NE.	24	NW.	0	4	14	7	4	9	13	5	3	1	8	12	10	8	7	0	0	0	0	0	0	0	0	2	0	0
October	5.9	SW.	27	SW.	0	0	9	6	3	12	20	2	10	0	8	7	18	6	5	0	0	1	1	0	0	4	1	0	0	0
November	6.0	SW.	29	SW.	0	9	7	5	2	15	15	4	3	0	8	12	10	19	15	6	4	0	2	0	0	10	0	0	0	0
December	5.3	SW.	27	SW.	0	11	8	3	1	15	16	4	3	1	1	5	25	11	7	11	4	0	1	3	0	23	0	0	0	0
Year..	6.4	SW.	42	SW.	1	45	102	76	38	154	201	50	61	3	81	102	182	108	74	52	32	5	6	28	12	100	7	0	0	0

SPRINGFIELD, ILL.

[H=644 ft.; h₁=10 ft.; h₂=4 ft.; h₃=91 ft.]

January	10.2	NW.	33	NW.	0	10	3	1	7	13	8	11	14	0	11	7	13	8	7	11	4	0	2	14	0	26	0	0	0	0
February	11.0	S.	36	SW.	0	5	2	2	6	15	5	2	14	0	10	8	10	8	3	11	5	0	0	10	0	28	0	0	0	0
March	9.5	S.	36	SW.	0	8	5	1	7	18	8	7	11	0	16	11	4	3	2	0	0	0	2	0	0	7	3	0	0	0
April	10.1	S.	33	SW.	0	6	4	2	7	14	9	7	17	0	8	7	15	13	7	5	1	0	0	0	0	4	0	0	0	0
May	9.2	S.	28	NW.	0	6	6	8	9	8	3	12	8	0	14	5	12	15	12	0	0	0	1	0	0	0	0	0	0	0
June	7.0	E.	42	SE.	1	7	7	7	8	4	11	6	10	0	14	10	6	10	8	0	0	0	1	0	10	0	11	0	0	0
July	7.1	SW.	31	NW.	0	2	7	7	11	5	8	16	7	6	0	12	8	11	10	7	0	0	0	0	0	7	0	12	0	0
August	7.1	S.	32	SW.	0	6	3	4	10	20	5	9	5	0	8	14	9	7	4	0	0	0	0	0	0	5	0	5	0	

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

SPRINGFIELD, MO.
[φ=37° 12' N.; λ=93° 18' W.]

Month.	Pressure.			Temperature.						Moisture.														
	Monthly mean.	Extremes.		Mean.			Extremes.			Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.								
		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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.			
		In.	In.	In.	°	°	°	°	°		°	°	°	%		%	In.	In.	In.	In.	In.			
January.....	28.700	29.140	28.172	28.9	37.8	42.9	25.9	34.4	71	°	°	°	°	24	27	82	68	0.135	0.156	0.98	0.56	4.5	5.0	5.2
February.....	28.717	29.013	28.251	23.9	32.9	38.4	19.4	28.9	62	-5	20	25	85	75	120	138	0.120	0.138	2.24	1.25	5.1	4.9	4.8	
March.....	28.683	29.031	28.474	49.2	62.6	68.6	46.5	57.6	85	28	38	37	66	42	232	231	0.232	0.231	1.60	.82	2.5	2.5	2.2	
April.....	28.528	28.867	28.193	48.1	58.7	64.2	45.2	54.7	85	28	41	42	77	58	271	282	0.271	0.282	2.52	.92	5.1	4.0	4.6	
May.....	28.599	28.950	28.296	55.0	64.1	69.0	51.3	60.2	85	41	50	50	84	63	371	371	0.371	0.371	5.46	1.47	5.3	4.6	4.4	
June.....	28.583	28.842	28.322	64.9	73.6	78.2	61.6	69.9	91	51	59	60	80	64	504	526	0.504	0.526	2.56	1.25	3.7	4.0	3.2	
July.....	28.661	28.790	28.398	70.4	80.1	84.4	67.2	75.8	95	58	65	66	84	63	627	644	0.627	0.644	4.25	1.41	4.9	3.3	2.7	
August.....	28.605	28.848	28.417	68.7	78.1	82.8	66.1	74.4	92	51	65	66	88	67	627	652	0.627	0.652	4.65	1.83	4.5	2.2	3.0	
September.....	28.657	28.933	28.548	64.4	73.5	80.0	62.2	71.1	88	51	60	62	86	71	531	564	0.531	0.564	4.85	1.56	3.6	2.9	4.1	
October.....	28.656	29.030	28.260	51.3	61.6	69.4	49.4	59.4	87	25	45	45	79	57	331	331	0.331	0.331	3.08	1.78	2.2	1.9	2.9	
November.....	28.633	28.948	28.271	38.5	47.6	55.0	35.0	45.0	73	20	30	30	72	52	178	178	0.178	0.178	1.44	.11	3.5	1.6	3.7	
December.....	28.713	29.224	28.309	28.1	36.3	42.5	25.6	34.0	58	16	22	26	78	69	122	147	0.122	0.147	.86	.45	5.0	3.1	4.1	
Year.....	28.636	29.224	28.172	49.3	58.8	64.6	46.3	55.4	95	-5	43	45	80	62	.337	.351			33.19	1.83	4.2	3.3	3.7	

SYRACUSE, N. Y.
[φ=43° 2' N.; λ=76° 10' W.]

January.....	29.431	30.022	28.527	22.9	.....	32.3	17.9	25.1	51	-11	19	.....	83	.....	0.107	.....	.....	.....	2.47	0.60	7.7	.....	8.1
February.....	29.437	29.948	29.021	20.0	.....	29.9	14.3	22.1	48	-11	16	.....	82	.....	0.098	.....	.....	.....	3.64	1.20	7.1	.....	7.3
March.....	29.395	29.689	28.968	37.3	.....	50.2	32.2	41.2	78	15	27	.....	67	.....	.150	.....	.....	.....	.63	.26	5.1	.....	5.2
April.....	29.285	29.668	28.867	46.2	.....	58.4	39.9	49.2	80	30	36	.....	68	.....	.225	.....	.....	.....	1.39	.39	6.1	.....	6.1
May.....	29.345	29.799	28.912	51.5	.....	62.2	45.2	53.7	77	34	43	.....	74	.....	.295	.....	.....	.....	4.76	1.45	6.4	.....	6.3
June.....	29.300	29.586	28.825	61.9	.....	72.2	55.3	63.8	87	37	53	.....	75	.....	.421	.....	.....	.....	2.24	1.23	6.1	.....	6.1
July.....	29.279	29.545	29.007	68.8	.....	80.3	62.3	71.3	92	54	58	.....	71	.....	.494	.....	.....	.....	2.96	.83	5.3	.....	5.6
August.....	29.399	29.675	29.028	64.7	.....	77.8	59.6	68.7	87	47	56	.....	74	.....	.458	.....	.....	.....	3.39	.91	5.2	.....	5.2
September.....	29.449	29.719	29.204	58.9	.....	70.3	53.3	61.8	84	41	53	.....	80	.....	.411	.....	.....	.....	3.30	1.37	5.7	.....	5.7
October.....	29.338	29.782	28.702	49.5	.....	60.0	45.6	51.8	88	29	41	.....	73	.....	.275	.....	.....	.....	1.53	.07	5.5	.....	5.6
November.....	29.189	29.631	28.850	34.1	.....	38.8	30.3	34.6	69	19	26	.....	80	.....	.219	.....	.....	.....	2.19	.38	9.0	.....	8.6
December.....	29.387	30.047	28.731	19.8	.....	27.5	13.8	20.6	42	-4	16	.....	85	.....	.092	.....	.....	.....	2.24	.50	9.1	.....	8.2
Year.....	29.353	30.047	28.527	44.7	.....	55.0	39.0	47.0	92	-11	37	.....	76	.....	.266	.....	.....	.....	30.74	1.57	6.6	.....	6.5

TACOMA, WASH.
[φ=47° 16' N.; λ=122° 23' W.]

January.....	29.809	30.457	29.002	36.8	40.7	43.7	33.3	38.5	54	22	33	36	86	84	0.193	0.215	.....	.....	7.66	2.06	8.0	8.3	7.7
February.....	29.874	30.426	29.100	34.7	40.9	43.5	32.2	37.8	51	23	33	37	91	85	.187	.221	.....	.....	6.51	1.57	7.8	8.0	8.1
March.....	29.873	30.271	29.455	42.5	53.5	55.2	40.2	47.7	70	28	40	43	92	70	.254	.284	.....	.....	2.90	1.29	6.0	6.7	5.4
April.....	29.883	30.268	29.399	42.0	55.5	57.9	41.2	49.6	85	34	39	40	88	61	.240	.250	.....	.....	2.86	.87	6.3	6.9	5.7
May.....	29.895	30.262	29.558	48.3	64.0	66.1	47.0	56.6	79	39	44	45	87	53	.295	.305	.....	.....	2.17	.90	5.3	4.7	5.1
June.....	29.845	30.163	29.498	50.4	63.9	65.6	48.7	57.2	86	44	44	45	80	51	.293	.298	.....	.....	.90	.47	6.7	6.3	5.7
July.....	29.835	30.003	29.576	53.5	71.4	72.7	52.5	62.6	91	45	49	50	84	49	.344	.370	.....	.....	.01	.01	5.0	3.0	4.2
August.....	29.905	30.172	29.641	53.1	67.6	69.2	51.5	60.4	86	45	48	49	84	54	.342	.356	.....	.....	.12	.11	6.3	4.1	4.8
September.....	29.851	30.053	29.606	52.3	64.0	65.3	49.9	57.6	74	43	47	48	83	60	.323	.345	.....	.....	1.62	.94	6.5	6.2	6.0
October.....	29.854	30.214	29.159	49.9	55.6	58.7	46.5	52.6	66	31	47	49	90	79	.325	.353	.....	.....	5.22	1.93	6.6	7.9	7.7
November.....	29.770	30.068	29.239	42.6	46.8	50.3	39.3	44.8	62	28	41	43	82	87	.251	.281	.....	.....	9.65	2.44	6.8	8.7	8.0
December.....	29.920	30.304	29.470	40.5	43.8	46.6	37.0	41.8	56	29	39	42	94	92	.241	.263	.....	.....	5.80	1.24	5.9	7.0	8.6
Year.....	29.860	30.457	29.002	45.6	55.6	57.9	43.3	50.6	91	22	42	44	88	69	.275	.295	.....	.....	45.42	2.44	6.4	6.5	6.4

TAMPA, FLA.
[φ=27° 57' N.; λ=82° 27' W.]

January.....	30.166	30.488	29.615	51.4	59.6	68.0	48.7	58.4	75	37	47	50	87	70	0.342	0.365	.....	.....	0.81	0.31	4.7	3.7	4.5
February.....	30.141	30.502	29.830	54.5	60.1	68.5	51.1	59.8	81	35	51	52	89	77	.401	.419	.....	.....	3.90	1.25	4.8	3.8	4.9
March.....	30.076	30.267	29.904	59.0	66.0	70.3	56.2	66.2	83	41	56	58	90	77	.457	.491	.....	.....	.58	.36	1.9	1.9	2.2
April.....	29.997	30.223	29.806	64.1	68.9	78.5	59.4	69.0	88	50	59	58	85	70	.520	.498	.....	.....	1.27	.59	2.7	3.0	2.9
May.....	29.974	30.184	29.782	72.0	76.1	84.9	67.1	76.0	89	59	66	66	82	72	.645	.646	.....	.....	1.76	1.35	4.2	3.5	3.9
June.....	29.911	30.102	29.814	78.9	77.3	87.1	71.3	79.2	92	68	73	72	86	85	.803	.791	.....	.....	9.15	4.47	4.6	6.5	5.5
July.....	29.922	30.168	29.920	78.4	77.7	86.2	72.4	80.3	93	70	74	74	86	87	.838	.825	.....	.....	9.73	2.68	3.2	8.3	5.7
August.....	29.954	30.075	29.822	78.1	78.8	88.1	73.6	80.8	92	70	74	74	88	84	.842	.825	.....	.....	6.89	2.22	4.6	7.4	6.2
September.....	29.975	30.144	29.861	75.8	79.4	89.1	71.6	80.4	93	63	71	69	85	72	.766	.725	.....	.....	.79	.77	2.9	2.9	3.9
October.....	29.924	30.394	28.912	69.9	71.9	81.0	66.3	73.6	89	43	66	65	86	80	.664	.650	.....	.....	5.17	1.72	4.7	4.2	5.6
November.....	29.994	30.153	29.768	57.5	62.8	72.1	54.6	63.4	79	46	54	56	87	78	.425	.453	.....	.....	1.94	1.72	2.8</		

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

TATOOSH ISLAND, WASH.

[$\phi=48^{\circ} 23' N.$; $\lambda=124^{\circ} 44' W.$]

Month.	Pressure.			Temperature.						Moisture.											
	Extremes.		Monthly mean.	Mean.		Extremes.		Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.							
	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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	%	%	In.	In.	In.	In.	h.	h.	h.	h.		
January.....	29.847	30.562	29.074	39.8	40.2	43.5	36.7	40.1	53	30	34	36	62	64	0.203	0.212	11.05	2.15	7.4	9.1	8.3
February.....	29.935	30.533	29.133	38.4	40.4	42.6	35.6	39.1	49	25	35	37	87	87	0.206	0.221	6.47	1.25	6.0	8.1	7.7
March.....	29.971	30.385	29.533	43.6	45.3	46.5	41.4	45.0	57	35	41	41	90	86	0.256	0.282	3.92	0.61	7.1	8.5	8.0
April.....	29.960	30.363	29.340	42.9	47.0	49.7	41.2	45.4	58	35	40	41	88	80	0.244	0.258	4.18	0.91	6.9	7.4	7.4
May.....	30.025	30.389	29.637	47.8	51.6	54.1	46.5	50.3	61	42	44	47	89	84	0.293	0.318	2.34	0.82	7.0	5.8	6.2
June.....	29.978	30.227	29.697	48.9	53.8	56.4	47.9	52.2	65	46	45	47	87	78	0.301	0.325	1.73	0.51	7.7	6.4	6.8
July.....	29.988	30.163	29.740	50.9	55.5	58.0	50.0	54.0	72	48	49	51	84	86	0.347	0.376	1.13	0.07	5.8	5.5	6.3
August.....	30.044	30.313	29.752	50.8	55.0	56.3	49.5	52.9	62	47	49	51	83	82	0.344	0.374	0.42	0.11	7.0	5.4	6.8
September.....	29.968	30.182	29.721	49.8	53.1	55.9	47.9	52.4	68	44	48	49	83	83	0.332	0.353	2.85	1.30	5.2	4.5	5.9
October.....	29.933	30.320	29.256	50.3	51.9	54.5	47.9	51.2	60	43	47	48	90	88	0.329	0.337	8.85	1.77	7.0	7.2	7.7
November.....	29.817	30.152	29.069	46.0	46.4	49.9	43.0	46.4	56	36	42	42	86	86	0.267	0.270	12.98	2.62	8.0	8.6	8.7
December.....	29.976	30.407	29.479	45.0	44.8	48.0	42.3	45.2	54	36	42	41	88	88	0.263	0.261	12.25	2.83	8.3	9.1	8.8
Year.....	29.956	30.562	29.069	46.2	48.6	51.5	44.2	47.8	72	25	43	44	89	86	0.282	0.297	67.14	2.83	7.0	7.1	7.4

TAYLOR, TEX.

[$\phi=30^{\circ} 35' N.$; $\lambda=97^{\circ} 20' W.$]

January.....	29.569	29.977	29.280	42.7	54.7	62.9	38.7	50.8	78	18	36	.....	78	.....	0.245	.....	0.20	0.15	3.9	.....	3.4
February.....	29.543	29.959	29.201	40.1	51.9	58.5	35.9	47.2	76	16	37	.....	87	.....	0.239	.....	2.57	1.82	6.1	.....	4.6
March.....	29.484	29.654	29.180	54.5	70.8	77.9	51.9	64.8	88	37	50	.....	84	.....	0.372	.....	2.31	1.66	3.8	.....	3.4
April.....	29.398	29.629	29.121	57.2	71.7	78.0	55.1	66.6	88	37	52	.....	82	.....	0.405	.....	2.13	1.43	4.2	.....	3.6
May.....	29.366	29.596	29.144	65.2	76.9	82.9	62.3	72.6	92	55	61	.....	87	.....	0.552	.....	2.74	1.16	4.3	.....	4.2
June.....	29.326	29.526	29.180	72.1	85.0	91.3	68.9	80.1	99	59	67	.....	85	.....	0.675	.....	0.68	0.68	2.6	.....	2.4
July.....	29.344	29.472	29.227	75.1	89.9	95.8	72.7	84.2	102	68	71	.....	87	.....	0.753	.....	1.17	0.20	.....	.....	2.2
August.....	29.346	29.458	29.301	75.7	82.2	87.2	74.3	85.8	101	70	69	.....	82	.....	0.721	.....	0.06	0.04	2.4	.....	2.5
September.....	29.406	29.549	29.267	71.2	84.7	89.8	69.8	82.2	98	65	67	.....	87	.....	0.687	.....	2.98	1.74	2.4	.....	2.5
October.....	29.437	29.332	29.171	58.6	71.0	76.9	58.6	68.0	93	57	60	.....	87	.....	0.458	.....	4.56	1.41	7.0	.....	3.7
November.....	29.436	29.716	29.231	53.4	63.1	71.2	50.5	60.8	84	37	43	.....	82	.....	0.362	.....	1.63	1.52	4.7	.....	3.1
December.....	29.543	29.873	29.252	44.5	54.5	61.8	42.2	52.0	78	30	39	.....	81	.....	0.255	.....	3.98	2.38	5.2	.....	4.7
Year.....	29.433	29.977	29.121	59.2	72.3	79.1	56.6	67.8	102	16	54	.....	84	.....	0.475	.....	23.97	2.38	3.7	.....	3.3

THOMASVILLE, GA.

[$\phi=30^{\circ} 48' N.$; $\lambda=83^{\circ} 58' W.$]

January.....	29.914	30.384	29.241	42.0	51.4	63.1	38.1	50.6	76	25	38	43	84	73	0.243	0.296	3.22	1.46	5.2	3.3	4.3
February.....	29.887	30.245	29.527	43.7	52.8	61.4	40.5	51.0	79	24	39	45	82	76	0.262	0.327	6.50	1.36	5.8	2.2	6.1
March.....	29.827	30.063	29.624	52.8	63.7	76.4	49.5	63.0	90	30	46	49	86	82	0.356	0.370	3.02	2.81	2.2	1.8	2.5
April.....	29.719	29.988	29.457	57.7	65.8	78.7	50.9	64.8	89	32	50	51	76	60	0.378	0.389	1.72	0.82	2.7	3.5	3.6
May.....	29.750	29.972	29.432	64.4	74.9	85.8	61.4	73.6	95	51	60	58	75	58	0.523	0.502	2.35	1.01	5.0	4.4	3.8
June.....	29.692	29.846	29.526	72.9	75.7	87.0	67.2	77.1	98	64	68	68	80	80	0.696	0.695	12.09	3.16	6.9	7.0	5.5
July.....	29.740	29.931	29.566	76.5	77.2	90.2	70.5	80.4	98	66	72	72	87	85	0.799	0.797	4.71	1.04	5.2	7.0	5.0
August.....	29.700	29.835	29.617	75.3	77.9	89.3	70.3	79.8	96	67	71	72	88	83	0.789	0.898	4.55	1.42	5.7	6.7	4.6
September.....	29.752	29.917	29.597	72.0	75.2	89.0	66.5	77.8	96	50	65	69	87	81	0.698	0.714	2.35	1.00	4.4	3.9	3.6
October.....	29.724	29.823	29.222	64.0	67.6	80.9	59.0	70.0	90	30	39	40	84	77	0.546	0.551	5.09	2.38	4.2	3.3	3.6
November.....	29.744	29.977	29.447	48.1	54.8	66.8	43.1	56.0	79	34	44	48	85	79	0.304	0.342	5.27	4.17	4.3	1.2	3.9
December.....	29.888	30.252	29.401	39.0	47.1	59.3	35.3	47.3	74	24	32	39	77	75	0.202	0.256	2.86	1.10	4.5	4.0	3.8
Year.....	29.778	30.384	29.222	59.4	65.3	77.5	54.4	66.0	98	24	54	56	83	74	0.481	0.510	52.93	4.17	4.7	4.3	4.2

TOLEDO, OHIO.

[$\phi=41^{\circ} 40' N.$; $\lambda=83^{\circ} 34' W.$]

January.....	29.366	30.076	28.661	25.7	27.9	32.5	20.9	26.7	43	3	22	23	85	80	0.120	0.125	3.78	1.10	9.0	7.5	7.7
February.....	29.442	29.897	28.917	21.2	26.8	32.4	17.4	24.9	49	1	16	20	77	72	0.093	0.112	2.32	0.72	6.7	6.1	6.0
March.....	29.383	29.646	28.989	40.7	49.1	56.7	36.6	46.6	83	18	32	32	72	55	0.187	0.192	0.05	0.04	4.6	3.0	2.7
April.....	29.221	29.625	28.863	45.9	53.0	59.7	41.3	50.5	82	33	38	41	76	66	0.240	0.274	5.79	2.50	5.5	5.1	4.9
May.....	29.380	29.768	28.900	52.1	58.5	64.1	46.0	55.4	81	34	44	45	74	64	0.305	0.331	2.97	0.81	4.6	4.8	4.3
June.....	29.206	29.532	28.840	63.8	70.5	76.7	58.3	67.5	95	40	54	56	70	62	0.425	0.456	0.97	0.39	2.4	4.2	3.6
July.....	29.266	29.588	29.085	70.4	77.0	84.4	65.1	74.8	95	55	60	60	71	68	0.536	0.532	3.29	1.06	3.9	4.4	2.5
August.....	29.346	29.578	29.076	67.1	74.7	81.5	62.2	71.8	95	62	69	68	75	57	0.508	0.487	1.95	1.16	3.4	4.2	4.0
September.....	29.411	29.705	29.112	60.1	67.1	73.4	56.5	65.0	85	47	56	56	84	69	0.450	0.461	1.76	0.69	4.6	3.6	3.8
October.....	29.345	29.715	28.850	50.2	57.4	65.5	47.0	56.2	85	37	45	46	81	68	0.315	0.357	2.34	1.54	3.2	3.1	3.8
November.....	29.284	29.565	28.927	34.3	38.1	42.7	31.8	37.2	64	25	28	30	76	72	0.152	0.165	2.22	0.75	7.5	7.1	7.4
December.....	29.403	30.022	28.763	23.5	25.8	31.0	19.2	25.1	40	11	19	20	82	76	0.104	0.106	1.71	0.62	7.1	6.4	6.6
Year.....	29.341	30.076	28.661	46.2	52.1	58.4	41.														

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

SPRINGFIELD, MO.

[H=1,324 ft.; h₁=98 ft.; h_r=6 ft.; h_a=104 ft.]

Month.	Wind.											Number of days.																
	By self-register.				Number of winds, 8 a. m. and 8 p. m.							Precipitation.	Snow.	Maximum temp.	Minimum temperature 32° or below.	Elec-												
	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.					Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	T. or more.	0.01 inch or more, melted.	Hail.	Fog.	32° or below.	32° or above.	Thunderstorms.	Auroras.
January	12.2	NW.	40	W.	1	5	2	0	17	7	6	4	20	0	16	0	15	5	13	6	0	0	0	0	0	24	0	0
February	12.7	SE.	35	SW.	0	14	4	2	14	7	4	4	3	8	0	14	2	9	9	0	0	0	0	0	10	0	0	
March	10.6	S.	38	S.	0	9	4	2	20	13	6	6	3	0	23	2	2	4	1	0	0	0	0	0	3	1	0	
April	12.0	NW.	39	N.	0	5	1	2	13	10	9	7	15	0	12	11	11	4	3	0	0	0	0	0	2	2	7	
May	11.0	SE.	42	N.	1	8	6	2	10	9	5	7	2	2	15	8	8	0	0	0	0	0	0	0	0	0	0	
June	8.0	SE.	35	N.	0	4	14	8	18	11	2	2	0	0	20	6	6	0	0	0	0	0	0	0	0	0	10	
July	8.1	S.	26	S.	0	6	8	8	8	19	7	2	0	0	19	11	12	0	0	0	0	0	0	0	0	0	11	
August	8.2	SE.	33	N.	0	7	5	6	25	12	1	0	4	2	21	7	3	0	0	0	0	0	0	0	0	0	0	
September	8.9	S.	30	W.	0	7	7	9	21	12	3	0	0	1	12	11	7	0	0	0	0	0	2	0	0	10		
October	9.3	S.	32	NW.	0	7	3	6	20	16	1	4	5	0	18	6	5	0	0	0	0	0	0	0	0	3		
November	10.3	NW.	32	SE.	0	12	4	4	13	10	2	5	10	0	14	10	6	0	0	0	0	0	1	1	0	2		
December	10.7	NW.	32	SE.	0	6	7	2	18	5	4	5	15	0	18	4	9	5	3	2	0	0	0	0	0	1		
Year	10.2	SE.	42	N.	2	90	65	51	186	138	55	44	99	2	202	77	86	105	77	25	15	0	5	21	11	94	58	

SYRACUSE, N. Y.

[H=597 ft.; h₁=97 ft.; h_r=65 ft.; h_a=113 ft.]

January	13.0	S.	58	S.	3	4	4	3	4	22	10	9	6	0	2	7	22	16	13	22	11	0	2	15	0	29	0	0
February	13.7	S.	54	S.	5	2	2	2	2	18	10	13	9	0	4	4	16	16	13	20	12	1	1	17	0	26	0	0
March	11.9	S.	46	S.	2	3	1	7	3	19	9	15	5	0	12	8	8	6	6	6	4	0	1	1	5	0	16	1
April	11.1	NW.	38	SE.	0	4	3	11	9	7	4	5	17	0	8	8	14	16	10	4	3	0	2	0	0	7	2	
May	11.1	W.	39	SW.	0	3	1	4	4	10	6	21	13	0	6	8	17	15	13	1	1	0	0	0	0	0	3	
June	8.9	NW.	26	SE.	0	3	3	5	4	8	8	13	16	0	9	10	11	10	8	0	0	0	0	0	0	0	3	
July	10.1	S.	34	SW.	0	5	3	1	3	17	9	12	12	0	11	14	9	10	9	0	0	0	0	0	0	0	7	
August	10.1	S.	38	W.	0	3	2	7	6	27	6	6	5	0	11	11	9	10	9	0	0	0	0	0	0	0	4	
September	8.5	S.	32	S.	0	5	5	5	4	15	7	10	9	0	10	5	15	10	9	0	0	0	1	0	0	0	4	
October	12.6	S.	47	W.	2	7	1	3	5	20	8	8	10	0	10	7	14	10	7	2	1	0	0	0	0	0	4	
November	12.5	W.	45	SW.	1	6	1	3	3	8	13	14	12	0	6	6	24	23	18	20	16	0	0	2	0	22		
December	12.1	SW.	44	S.	3	6	7	2	2	12	13	9	11	0	3	4	24	17	14	23	13	0	0	21	0	30		
Year	11.2	S.	58	S.	16	51	31	53	49	183	103	135	125	0	83	96	186	163	125	98	60	3	7	60	3	134	27	

TACOMA, WASH.

[H=213 ft.; h₁=113 ft.; h_r=104 ft.; h_a=120 ft.]

January	6.8	SW.	36	NE.	0	9	4	3	8	14	20	1	3	0	4	5	22	22	17	4	2	2	5	0	0	10	0
February	6.3	SW.	30	SW.	0	10	6	1	3	7	20	7	2	0	2	8	18	20	16	7	5	0	5	1	0	12	1
March	5.3	SW.	24	SW.	0	17	2	2	2	6	24	6	3	0	11	11	9	15	11	1	0	0	6	0	0	2	0
April	5.8	SW.	24	SW.	0	18	2	0	1	5	19	11	1	3	10	7	13	12	9	1	0	1	1	0	0	0	0
May	5.6	N.	20	SW.	0	21	0	0	1	4	21	10	4	1	11	12	8	9	6	0	0	0	0	0	0	0	0
June	6.3	N.	30	W.	0	19	2	0	0	6	13	14	4	2	9	7	14	1	4	0	0	0	0	0	0	0	1
July	5.7	N.	24	W.	0	30	0	1	0	10	15	5	1	0	15	11	5	1	0	0	0	0	0	0	0	0	0
August	5.4	N.	21	SW.	0	28	2	0	0	2	14	9	5	2	12	11	8	2	1	0	0	0	0	0	0	0	1
September	5.1	N.	34	E.	0	25	2	1	2	3	15	7	2	3	7	13	10	5	4	0	0	0	5	0	0	0	1
October	5.8	SW.	26	SW.	0	15	5	3	3	10	21	4	1	0	6	5	20	19	15	0	0	0	9	0	0	1	
November	5.1	SW.	25	SW.	0	6	2	1	6	12	24	6	3	0	5	2	23	20	16	0	0	0	6	0	0	3	
December	5.6	SW.	25	SW.	0	2	1	2	12	16	28	0	1	0	3	3	25	18	16	0	0	1	9	1	0	7	
Year	5.7	SW.	36	NE.	0	200	28	14	38	85	229	90	84	12	95	65	175	150	115	13	7	4	47	2	1	35	5

TAMPA, FLA.

[H=35 ft.; h₁=79 ft.; h_r=71 ft.; h_a=96 ft.]

January	7.7	NE.	30	W.	0	10	20	6	2	6	4	2	11	1	11	13	7	5	4	0	0	0	3	0	0	0	1
February	8.4	NE.	38	W.	0	7	18	3	6	4	3	3	9	0	12	7	9	5	4	0	0	0	2	0	0	0	2
March	7.5	N.	25	NE.	0	20	8	7	3	1	6	5	14	1	24	4	3	5	4	0	0	0	0	0	0	0	2
April	7.7	NW.	35	NW.	0	4	3	8	4	1	11	12	16	1	18	10	2	6	3	0	0	0	2	0	0	0	3
May	8.3	W.	33	SE.	0	2	10	9	11	1	8	12	9	0	15	9	7	6	5	0	0	0	0	0	0	0	5
June	6.8	W.	27	SW.	0	3	9	8	9	7	5	13	6	0	9	12	9	13	11	0	0	0	0	0	0	6	
July	6.2	NE.	36	SE.	0	2	14	10	10	5	10	4	6	1	5	19	7	21	18	0	0	0	0	0	0	9	
August	5.7	NE.	33	S.	0	4	19	7	12	3	7	5	4	0	13	20	9	16	11	0	0	0	0	0	0	8	
September	6.2	NE.	36	E.	0	7	23	8	1	0	1	4	6	0	13	14	8	16	11	0	0	0	0	0	0	14	
October	8.2	NE.	38	N.	0	12	28	7	1	2	3	3	5	1	10	9	12	12	10	0	0	0	1	0	0	0	11
November	8.4	NW.	26	SW.	0	14	11	1	1	4	3	2	7	18	1	18	7	5	3	0	0	1	0	0	0	0	0
December	7.3	N.	27	W.	0	15	15	8	3	0	3	5	13	1	19	7	5	4	4	0	0	0	0	0	0	0	0
Year	7.3	NE.	48	N.	2	100	188	82	63	34	63	75	117	8	157	131	77	104	84	0	0	0	10	0	37	0	96

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

TATOOSH ISLAND, WASH.

[H=86 ft.; h1=7 ft.; h2=4 ft.; h3=57 ft.]

Table for TATOOSH ISLAND, WASH. showing monthly and yearly data for wind, precipitation, snow, and temperature. Columns include Month, Average hourly velocity, Prevailing direction, Maximum velocity, Direction at time of maximum velocity, Number of days with gales, and various wind directions (North, Northeast, East, Southeast, South, Southwest, West, Northwest, Calm, Clear, Partly cloudy, Cloudy, Precipitation, Snow, Hail, Fog, etc.).

TAYLOR, TEXAS.

[H=583 ft.; h1=55 ft.; h2=48 ft.; h3=63 ft.]

Table for TAYLOR, TEXAS. Similar format to TATOOSH ISLAND, showing monthly and yearly data for wind, precipitation, and temperature.

THOMASVILLE, GA.

[H=273 ft.; h1=3 ft.; h2=4 ft.; h3=57 ft.]

Table for THOMASVILLE, GA. Similar format to TATOOSH ISLAND, showing monthly and yearly data for wind, precipitation, and temperature.

TOLEDO, OHIO.

[H=626 ft.; h1=207 ft.; h2=201 ft.; h3=246 ft.]

Table for TOLEDO, OHIO. Similar format to TATOOSH ISLAND, showing monthly and yearly data for wind, precipitation, and temperature.

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

TONOPAH, NEV.

[$\phi=38^{\circ}04' N.$; $\lambda=117^{\circ}14' W.$]

Month.	Pressure.			Temperature.						Moisture.												
	Extremes.		Monthly mean.	Mean.			Extremes.		Dew point.	Relative humidity.		Vapor pressure.	Precipitation.	Cloudiness.								
	Maximum.	Minimum.		S. a. m.	S. p. m.	Minimum.	Monthly.	Maximum.		Minimum.	S. a. m.			S. p. m.	S. a. m.	S. p. m.	Total.	Maximum in 24 hours.	S. a. m.	S. p. m.	Daylight.	
January	24.061	24.301	23.552	23.6	29.4	32.6	20.2	26.4	49	-2	17	18	77	63	6	0.096	0.097	0.55	0.29	3.5	4.2	4.5
February	24.080	24.295	23.732	27.7	37.2	40.9	24.4	32.6	57	-2	20	22	72	55	108	0.119	0.12	0.66	2.5	5.4	5.0	
March	24.071	24.351	23.742	40.3	54.8	56.5	38.2	47.4	68	27	25	22	72	55	124	0.126	0.20	1.16	2.9	4.5	4.3	
April	24.077	24.303	23.802	44.5	61.6	63.9	42.1	53.0	77	27	22	22	43	23	119	0.115	0.01	0.01	5.0	3.7	3.6	
May	24.072	24.231	23.770	50.4	70.8	72.9	48.8	60.8	94	27	27	26	42	19	144	0.138	0.18	1.18	2.3	3.6	3.1	
June	24.025	24.205	23.832	56.0	78.7	80.7	54.7	67.7	89	43	26	32	14	144	138	0.00	0.00	1.0	1.7	2.1		
July	24.106	24.251	23.896	62.8	81.1	85.7	61.3	73.5	92	41	38	39	43	28	243	0.259	0.52	1.17	2.8	5.3	4.1	
August	24.122	24.202	23.945	64.6	84.3	86.5	62.8	74.6	91	48	30	31	29	16	176	0.182	0.24	1.24	1.9	3.1	2.5	
September	24.077	24.250	23.861	56.5	73.4	75.7	54.6	65.2	88	49	29	29	37	22	165	0.164	0.94	0.87	1.3	2.3	2.1	
October	24.131	24.302	23.830	46.9	59.3	63.1	44.5	53.8	79	32	26	28	46	35	139	0.158	0.35	1.17	2.3	3.6	3.3	
November	24.073	24.252	23.802	39.8	47.6	52.3	37.0	44.6	65	21	25	26	56	46	133	0.141	0.36	0.34	2.7	5.7	5.1	
December	24.116	24.304	23.857	31.5	37.4	41.0	28.8	34.9	56	14	29	22	64	55	104	0.114	0.75	0.64	3.4	5.7	5.0	
Year	24.084	24.351	23.552	45.4	59.6	62.6	43.1	52.9	94	-2	25	26	50	34	142	146	4.22	0.87	2.5	4.1	4.1	3.7

TOPEKA, KANS.

[$\phi=39^{\circ}3' N.$; $\lambda=95^{\circ}41' W.$]

January				30.6	36.7	20.9	28.8	63	-5									2.42	1.37			4.8
February				31.2	38.8	17.5	28.2	64	-2									0.87	0.51			4.1
March				63.5	71.3	43.0	57.2	80	17	29	29	74	37	160	163	0.96	0.06	0.05	3.1	3.2		1.3
April				62.6	68.6	45.1	56.8	95	33									0.66	0.23			3.9
May				63.4	67.7	50.8	59.2	85	42									7.52	2.01			5.1
June				77.1	81.5	61.6	71.6	94	49									1.76	0.87			3.0
July				83.4	90.5	68.3	79.4	105	59									2.80	1.74			2.8
August				78.1	83.7	65.6	74.6	95	50									8.00	2.17			3.9
September				71.5	79.0	59.0	69.0	92	40									5.63	2.36			3.9
October				62.6	72.3	47.6	60.0	87	26									1.57	1.51			2.8
November				45.8	54.0	32.8	43.4	75	20									0.25	0.25			3.3
December				33.5	39.7	23.2	31.4	53	12									1.03	0.72			4.0
Year				58.6	65.3	44.6	55.0	105	-5									32.57	2.36			3.5

VALENTINE, NEBR.

[$\phi=42^{\circ}50' N.$; $\lambda=100^{\circ}32' W.$]

January	27.311	27.787	26.672	17.0	22.0	30.4	8.8	19.6	49	-25	13	16	85	78	3.080	0.099	1.61	0.67	4.5	4.1	4.0
February	27.341	27.716	26.806	12.1	23.1	32.4	7.0	19.9	57	-14	8	15	84	71	0.067	0.098	0.27	0.22	2.9	3.5	3.3
March	27.290	27.686	26.627	36.5	58.1	64.2	34.1	49.2	87	17	29	29	74	37	160	163	0.96	0.50	3.1	3.2	2.0
April	27.236	27.608	26.696	39.5	60.8	65.6	36.4	51.0	94	21	30	27	86	84	168	155	1.12	1.11	5.7	3.7	3.9
May	27.328	27.679	26.903	44.2	60.3	64.9	40.3	52.6	84	28	38	35	79	46	232	213	1.17	1.45	4.5	4.4	4.5
June	27.263	27.563	26.970	59.2	76.5	80.1	55.8	68.0	97	41	52	49	78	42	401	364	5.12	2.12	4.3	4.1	4.4
July	27.272	27.476	27.004	64.2	83.4	87.8	60.1	74.0	101	47	56	54	76	38	450	427	2.14	1.89	3.3	2.9	3.2
August	27.310	27.690	26.962	57.8	75.1	81.0	55.0	68.0	96	38	53	52	84	47	414	404	4.95	1.91	3.6	3.3	4.1
September	27.331	27.749	26.862	51.4	68.3	75.1	49.1	62.1	95	33	45	46	80	50	310	329	0.67	0.25	4.1	3.5	4.2
October	27.290	27.709	26.851	40.8	60.2	70.9	37.4	54.2	95	10	32	31	72	36	191	179	0.20	1.13	1.9	2.5	2.6
November	27.304	27.800	26.861	26.0	38.2	48.1	21.2	34.6	72	7	21	23	80	56	111	124	0.12	0.08	3.1	4.5	3.3
December	27.324	27.707	26.940	20.3	28.7	37.2	15.6	26.4	51	-2	17	22	88	74	094	116	1.22	0.61	4.0	3.6	4.0
Year	27.300	27.800	26.627	39.1	54.6	61.5	35.1	48.3	101	-25	33	33	76	51	223	223	18.45	2.12	3.6	3.6	3.6

VICKSBURG, MISS.

[$\phi=32^{\circ}22' N.$; $\lambda=90^{\circ}53' W.$]

January	29.916	30.357	29.442	44.4	53.7	59.9	40.5	50.2	72	21	37	38	75	67	0.242	0.248	3.85	2.51	5.2	5.2	5.2
February	29.891	30.257	29.562	41.0	50.1	55.7	37.2	46.4	72	19	35	37	78	62	0.220	0.239	5.40	1.98	6.4	5.7	6.1
March	29.852	30.007	29.565	56.3	70.0	76.0	55.1	65.6	87	37	46	44	70	42	331	307	5.53	0.53	2.8	3.4	3.1
April	29.721	29.965	29.407	57.3	68.3	73.8	54.5	64.2	85	34	49	50	76	54	375	354	3.97	3.42	4.6	4.7	4.8
May	29.745	29.976	29.508	63.8	74.4	79.0	61.4	70.2	89	52	57	58	80	58	485	459	3.29	1.51	6.1	6.1	6.4
June	29.682	29.859	29.457	70.3	78.4	85.6	67.0	76.3	91	60	66	67	86	69	639	658	3.82	1.22	5.2	4.6	4.8
July	29.709	29.859	29.508	74.5	81.5	87.5	71.5	79.5	94	67	71	72	90	73	762	778	5.27	1.94	6.3	6.6	6.6
August	29.708	29.839	29.618	75.0	82.5	91.2	72.4	81.8	95	67	71	72	87	71	751	780	1.36	0.70	3.1	6.5	5.6
September	29.773	29.933	29.622	70.8	80.1	89.2	68.3	78.8	94	59	66	66	85	65	646	659	2.51	1.74	2.4	3.8	3.5
October	29.780	30.283	29.473	59.7	68.7	77.4	57.2	67.3	90	34	54	55	82	64	465	496	2.95	1.72	3.3	3.2	3.8
November	29.803	30.054	29.475	49.9	58.9	65.4	47.1	56.2	77	35	44	43	81	59	312	307	2.97	0.88	6.1	3.1	4.7
December	29.918	30.299	29.405	44.0	50.5	56.1	40.5	48.3	72	28	36	37	72	61	231	242	4.09	1.67	5.5	6.5	6.8
Year	29.791	30.357	29.405	58.9	68.1	74.7	56.1	65.4	95	19	53	53	80	61	455	465	40.01	3.42	4.8	5.0	5.1

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

WALLA WALLA, WASH.

[$\phi=46^{\circ} 02' N.$; $\lambda=118^{\circ} 20' W.$]

Month.	Pressure.		Temperature.							Moisture.											
	Monthly mean.	Extremes.	Mean.					Extremes.	Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.						
			Maximum.	Minimum.	s. a. m.	8 p. m.	Monthly.			Maximum.	Minimum.	s. a. m.	8 p. m.		s. a. m.	8 p. m.	Total.	Maximum in 24 hours.	s. a. m.	8 p. m.	Daylight.
January.....	In. 29.040	In. 28.643	In. 28.306	29.5	32.5	38.1	24.3	31.2	61	7	24	25	82	75	0.139	0.139	In. 0.80	In. 7.6	7.9	7.9	7.9
February.....	29.060	29.532	28.421	27.8	32.3	37.0	24.6	30.8	51	11	24	26	84	77	0.127	0.143	2.73	7.5	6.9	8.0	7.2
March.....	29.011	29.411	28.527	46.1	58.4	60.7	43.0	51.8	71	27	38	38	75	50	0.234	0.240	1.65	7.8	5.5	4.4	4.8
April.....	28.976	29.359	28.539	48.8	65.9	67.6	46.5	57.0	92	34	38	37	66	38	0.231	0.230	1.47	4.4	5.7	4.7	4.9
May.....	28.973	29.327	28.634	53.0	73.9	75.9	51.5	63.7	95	41	41	38	65	31	0.263	0.230	1.40	4.1	3.5	3.2	3.5
June.....	28.903	29.257	28.617	55.0	75.3	77.7	52.6	65.2	100	42	42	36	62	26	0.260	0.219	0.63	5.2	3.2	3.5	3.3
July.....	28.865	29.077	28.586	62.9	89.2	91.4	62.0	73.2	100	54	40	35	45	19	0.255	0.207	0.63	7.1	1.4	1.6	1.9
August.....	28.955	29.357	28.714	58.8	82.1	83.5	57.7	70.6	98	41	38	34	48	19	0.238	0.201	1.11	11	0.9	1.5	2.0
September.....	28.947	29.180	28.592	53.4	71.0	73.7	51.2	62.4	82	38	40	41	63	36	0.266	0.266	0.70	6.9	3.6	4.3	4.4
October.....	29.009	29.481	28.475	49.8	61.8	65.7	46.2	56.0	80	27	40	40	68	46	0.251	0.139	5.8	5.8	3.5	4.8	4.8
November.....	28.991	29.249	28.629	42.1	45.0	50.3	37.5	43.9	68	29	34	36	75	72	0.200	0.213	3.69	1.13	7.4	7.6	8.2
December.....	29.136	29.548	28.683	36.7	39.6	43.2	33.5	38.4	56	27	31	33	81	78	0.174	0.188	0.63	2.0	7.3	7.5	8.5
Year.....	28.991	29.643	28.306	47.0	60.6	63.6	44.2	53.9	102	7	36	35	68	47	0.220	0.212	16.82	1.13	4.7	4.9	5.1

WASHINGTON, D. C.

[$\phi=38^{\circ} 54' N.$; $\lambda=77^{\circ} 03' W.$]

January.....	30.004	30.627	29.147	29.1	34.9	41.0	26.4	33.7	58	11	23	26	75	70	0.128	0.148	4.39	1.01	7.2	6.0	6.6
February.....	30.036	30.586	29.506	29.7	36.5	42.7	26.6	34.6	68	8	21	24	70	62	0.127	0.149	2.20	0.83	5.1	4.8	4.9
March.....	29.973	30.328	29.391	43.4	54.5	61.8	40.5	51.2	86	26	35	35	73	51	0.216	0.225	0.57	3.8	4.5	3.0	3.8
April.....	29.800	30.172	29.475	52.4	60.0	68.9	46.9	57.9	92	37	42	42	69	56	0.281	0.291	5.89	2.79	5.2	5.9	4.6
May.....	29.890	30.305	29.495	58.2	65.2	71.5	51.4	61.4	87	39	48	49	71	63	0.362	0.373	3.43	0.8	5.3	5.8	4.7
June.....	29.819	30.124	29.457	66.2	72.0	78.6	60.8	69.7	94	45	58	61	76	70	0.503	0.507	4.77	1.98	5.3	6.5	5.0
July.....	29.811	30.037	29.590	73.9	78.3	87.3	68.0	77.5	95	57	60	67	79	70	0.654	0.673	3.73	1.53	3.5	5.0	3.6
August.....	29.934	30.163	29.589	70.1	74.9	82.6	65.1	73.8	90	58	63	64	80	72	0.592	0.615	1.26	4.9	5.9	5.8	5.4
September.....	29.967	30.184	29.701	65.9	70.9	80.4	61.7	71.0	94	48	60	61	81	71	0.531	0.549	2.15	1.14	4.7	3.6	3.9
October.....	29.923	30.347	29.555	53.8	59.4	71.0	49.5	60.2	90	31	47	48	78	69	0.346	0.369	5.74	3.67	3.9	2.5	3.8
November.....	29.781	30.214	29.475	37.6	41.5	48.5	34.3	41.4	66	23	29	28	70	58	0.158	0.155	2.28	1.17	4.5	5.2	5.3
December.....	29.986	30.623	29.345	27.2	31.8	38.0	23.0	30.5	62	8	19	22	70	66	0.106	0.120	2.64	1.19	5.0	3.2	5.7
Year.....	29.910	30.627	29.147	50.6	56.5	64.4	46.2	55.2	95	8	43	44	74	65	0.334	0.352	39.05	3.67	5.0	4.8	4.8

WICHITA, KANS.

[$\phi=37^{\circ} 41' N.$; $\lambda=97^{\circ} 20' W.$]

January.....	28.707	29.116	28.040	28.3	35.6	41.6	24.3	33.0	66	-1	23	26	80	67	0.132	0.146	0.55	0.32	4.0	5.1	5.2
February.....	28.718	29.056	28.204	25.6	35.0	41.5	20.2	30.8	68	2	20	22	80	59	0.118	0.129	0.63	0.39	4.0	4.5	4.9
March.....	28.647	28.936	28.321	46.7	66.2	71.8	44.4	58.1	89	29	34	33	64	32	0.207	0.194	T.	T.	2.9	3.2	3.5
April.....	28.531	28.857	28.148	49.8	65.7	71.0	48.4	58.7	96	32	37	37	64	38	0.237	0.236	0.96	3.0	5.4	3.7	4.7
May.....	28.590	28.944	28.190	55.1	66.0	71.2	52.0	61.6	92	42	49	49	80	59	0.365	0.360	5.11	3.00	6.1	6.2	6.2
June.....	28.553	28.809	28.294	66.3	76.5	83.7	62.9	73.3	95	50	57	56	74	48	0.494	0.472	1.94	1.20	4.7	4.1	4.8
July.....	28.524	28.788	28.324	72.5	88.7	93.3	69.6	81.4	105	61	62	59	71	49	0.563	0.518	1.24	0.38	4.2	3.0	3.9
August.....	28.572	28.893	28.350	69.4	82.2	88.0	66.8	77.4	103	48	63	62	82	54	0.597	0.573	4.82	2.52	6.0	4.9	5.1
September.....	28.610	28.938	28.222	64.4	76.4	83.1	61.3	72.2	97	44	58	59	81	57	0.498	0.513	1.56	0.56	5.1	4.0	4.7
October.....	28.633	29.067	28.290	50.9	66.6	74.3	48.3	61.3	93	26	42	39	72	39	0.297	0.263	0.52	0.44	2.7	2.9	3.2
November.....	28.626	29.066	28.152	37.9	51.3	58.6	34.2	46.4	79	19	28	29	67	42	0.160	0.159	T.	T.	3.5	3.6	4.3
December.....	28.711	29.187	28.303	27.8	38.9	44.6	25.6	35.1	58	11	19	22	68	50	0.102	0.117	0.69	0.58	3.9	3.7	4.5
Year.....	28.618	29.187	28.040	49.6	62.7	68.6	46.3	57.4	105	-1	41	41	74	49	0.312	0.307	17.72	3.00	4.4	4.1	4.6

WILLISTON, N. DAK.

[$\phi=48^{\circ} 9' N.$; $\lambda=103^{\circ} 35' W.$]

January.....	27.987	28.556	27.431	6.9	13.8	21.8	0.2	11.0	41	-18	4	11	89	89	0.057	0.062	0.27	0.10	5.2	3.8	6.3
February.....	28.090	28.497	27.194	-2.6	6.2	13.2	-8.5	2.4	43	-40	4	94	89	0.043	0.056	0.34	0.26	5.1	4.5	5.3	
March.....	27.967	28.386	27.429	31.8	48.6	55.5	28.6	42.0	84	3	27	30	81	53	0.147	0.170	1.81	1.07	4.8	5.9	5.3
April.....	27.985	28.399	27.284	39.3	59.9	65.6	35.0	50.3	91	18	31	33	74	42	0.180	0.191	1.93	0.64	5.0	5.7	5.1
May.....	28.019	28.381	27.496	44.2	59.4	64.3	37.0	50.6	80	24	36	36	74	45	0.219	0.215	1.18	0.88	5.5	5.9	5.8
June.....	27.912	28.259	27.599	59.0	75.7	79.7	61.7	65.7	102	31	49	48	72	41	0.357	0.346	1.98	0.92	3.4	4.4	4.2
July.....	27.925	28.189	27.475	61.6	80.0	83.6	55.4	69.5	102	45	52	49	71	36	0.388	0.357	1.09	0.39	4.0	4.3	4.7
August.....	28.008	28.302	27.637	62.4	89.4	93.0	68.2	82.1	95	36	45	46	78	48	0.310	0.317	1.78	0.84	4.4	4.4	4.6
September.....	28.034	28.553	27.610	42.0	63.7	68.4	39.8	54.0	95	20	38	38	84	43	0.236	0.244	1.12	0.05	5.4	5.1	4.3
October.....	27.956	28.461	27.396	36.1	51.8	62.6	31.8	47.2	90	13	30	29	78	44	0.166	0.165	0.04	0.03	5.2	4.5	5.8
November.....	28.032	28.614	27.552	19.7	23.9	31.5	15.7	23.6	60	-10	18	20	91	87	0.101	0.115	0.66	0.50	7.0	5.8	6.9
December.....	28.017	28.436	27.437	11.1	16.1	23.9	4.4	14.2	40	-14	9	14	98	89	0.069	0.087	0.28	0.14	5.0	4.3	5.6
Year.....	27.989	28.614	27.194	33.5	47.4	53.8	28.3	41.0	102	-40	28	30	82	59	0.189	0.195					

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

TONOPAH, NEV.

[H=0,090 ft.; h₁=12 ft.; h₂=9 ft.; h₃=20 ft.]

Month.	Wind.											Number of days.																		
	By self-register.		Number of winds, 8 a. m. and 8 p. m.									Precipitation.	Snow.			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.	T. or more.	0.01 inch or more melted.	Hail.	Fog.	32° or below.	40° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.	
	Miles.	SE.	Mi.	SE.																										
January	10.3	SE.	43	SE.	2	0	0	1	35	3	0	7	11	0	13	15	3	6	5	0	0	0	0	0	14	0	26	0	0	
February	10.5	NW.	54	W.	0	0	0	0	17	0	0	0	0	0	11	11	0	11	14	0	0	0	0	0	4	0	0	0	0	
March	10.2	SE.	40	NW.	1	0	1	4	26	0	0	0	0	0	15	14	1	1	1	0	0	0	0	0	1	1	0	0	0	
April	10.7	SE.	56	NW.	1	0	1	1	1	0	0	0	0	0	15	14	1	1	1	0	0	0	0	0	1	1	0	0	0	
May	8.3	NW.	48	NW.	1	0	4	2	10	3	3	3	18	22	0	17	13	1	1	1	1	1	1	0	0	2	1	0	0	
June	8.8	W.	32	NW.	0	1	1	0	16	2	2	25	13	0	25	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July	7.9	SE.	31	W.	0	1	1	3	28	1	2	15	11	0	12	19	0	5	4	4	0	0	0	0	11	0	0	3	0	
August	7.3	W.	33	E.	0	1	0	2	16	4	4	24	8	0	21	10	0	0	0	0	0	0	0	0	5	0	0	7	0	
September	8.4	SE.	32	SE.	0	1	0	3	29	4	3	13	7	0	23	5	2	2	2	2	2	2	2	0	0	0	0	0	0	
October	7.8	SE.	37	SE.	0	0	0	4	3	19	3	3	17	13	0	17	9	5	5	5	5	5	5	0	0	0	2	0	0	
November	7.2	SE.	34	SE.	0	0	0	0	33	4	4	13	13	0	10	14	6	6	6	6	6	6	6	0	0	0	0	0	0	
December	7.2	W.	33	NW.	0	0	2	2	19	7	4	22	6	0	0	7	18	6	4	4	4	4	4	0	8	0	21	0	0	
Year	8.7	SE.	56	NW.	8	4	14	21	279	38	36	188	150	0	183	147	35	33	23	24	16	0	0	26	18	94	10	0	0	

TOPEKA, KANS.

[H=— ft.; h₁=85 ft.; h₂=76 ft.; h₃=101 ft.]

January	10.1	NW.	42	NW.	1	3	1	1	4	6	4	3	0	0	13	7	11	4	3	4	2	2	0	3	10	0	28	0	0
February	11.5	SW.	46	NW.	1	4	1	2	8	8	4	3	0	0	17	2	2	4	4	4	6	2	2	0	6	0	0	27	0
March	10.3	SE.	39	S.	0	3	5	2	4	13	2	2	0	0	25	2	2	1	1	1	1	1	1	0	0	0	4	0	0
April	13.3	NW.	44	NW.	1	1	5	7	3	8	0	1	9	4	12	10	16	1	4	4	0	0	0	0	0	0	0	3	0
May	9.4	N.	33	S.	0	6	7	8	3	5	2	2	0	0	11	10	16	15	6	4	0	0	0	0	0	0	0	10	0
June	8.0	E.	37	E.	0	4	3	8	6	6	0	0	2	2	20	6	4	9	8	4	0	0	0	0	0	0	0	7	0
July	7.7	SE.	38	N.	0	6	3	8	6	6	0	0	0	0	18	13	0	0	0	0	0	0	0	0	0	0	0	0	0
August	7.5	SE.	45	NW.	1	4	0	7	10	4	0	1	5	0	15	10	6	12	10	0	0	0	0	1	0	0	0	9	0
September	8.1	SE.	35	S.	0	3	4	6	10	3	1	1	2	0	15	10	5	10	9	0	0	0	2	0	0	0	0	7	0
October	9.2	S.	31	N.	0	2	1	2	13	5	3	0	5	0	20	7	4	2	2	2	1	1	1	0	0	0	2	2	0
November	8.6	NW.	32	S.	0	4	3	2	5	6	3	0	7	0	19	9	2	2	1	1	1	1	1	0	0	0	15	0	
December	9.6	NW.	36	S.	0	3	4	1	5	6	0	3	9	0	14	11	6	4	3	5	2	2	0	0	7	0	29	0	
Year	9.4	SE.	49	N.	6	45	32	48	79	70	18	11	62	0	202	100	63	82	64	22	8	5	9	23	35	105	46	0	0

VALENTINE, NEBR.

[H=2,598 ft.; h₁=47 ft.; h₂=36 ft.; h₃=54 ft.]

January	9.9	W.	44	NW.	3	5	2	3	1	4	6	29	12	0	10	20	1	7	4	7	0	2	18	0	31	0	0	0	9	
February	10.1	NW.	37	NW.	0	12	2	3	0	6	5	12	16	0	15	13	0	0	0	0	0	1	14	0	0	28	0	0	0	6
March	10.2	W.	46	NW.	3	8	3	8	6	3	5	18	10	0	22	9	0	5	4	2	2	0	0	1	0	0	10	3	1	2
April	13.4	NW.	48	NW.	3	13	3	0	2	8	10	7	17	0	18	8	4	2	2	2	1	1	0	0	0	2	11	0	1	2
May	11.3	NW.	36	S.	0	15	8	3	9	9	4	7	7	0	13	12	6	10	4	4	2	2	0	0	0	0	0	5	1	0
June	12.3	S.	40	SE.	1	6	4	8	11	21	2	2	4	2	11	13	6	13	11	0	0	0	0	0	0	0	0	9	0	
July	8.9	S.	44	N.	2	6	7	7	11	13	6	5	7	0	16	15	0	9	6	0	0	0	0	0	12	0	0	13	0	
August	9.1	S.	44	NW.	1	10	1	9	7	16	8	5	4	0	11	19	1	11	11	0	2	2	1	0	0	0	0	0	0	0
September	8.9	S.	37	S.	0	12	11	7	2	15	3	5	4	1	14	12	4	7	6	0	0	0	2	0	2	0	0	6	0	
October	10.3	NW.	44	S.	3	5	3	1	0	16	15	15	0	0	22	7	2	4	1	1	1	1	0	1	0	1	12	2	0	
November	7.9	NW.	28	NW.	0	11	2	4	3	6	4	10	19	1	17	11	2	3	2	2	1	1	1	0	1	3	0	0	0	
December	8.8	NW.	31	NW.	0	4	2	2	4	3	6	17	20	4	12	17	2	4	4	4	0	0	0	8	0	31	0	0	4	
Year	10.2	NW.	48	NW.	16	107	48	54	56	120	66	129	138	12	181	156	28	78	57	21	4	8	44	32	158	44	2	29	0	

VICKSBURG, MISS.

[H=247 ft.; h₁=62 ft.; h₂=53 ft.; h₃=74 ft.]

January	8.2	SE.	29	NW.	0	7	5	7	14	8	5	4	11	1	13	4	14	8	6	3	1	1	0	0	0	0	4	1	0
February	8.5	N.	33	SW.	0	15	6	8	11	3	4	1	8	0	8	6	14	10	8	3	1	1	1	3	0	0	7	4	0
March	8.7	S.	22	SE.	0	6	6	5	8	17	10	4	6	0	20	3	8	1	1	1	0	0	0	1	0	0	0	2	0
April	8.3	SE.	27	NW.	0	4	2	4	12	11	5	11	11	0	12	6	12	6	6	0	0	0	0	0	0	0	0	6	0
May	6.7	SE.	26	NW.	0	2	6	9	15	5	12	3	10	0	7	8	16	7	7	0	0	0	0	0	0	0	0	6	0
June	5.2	S.	29	N.	0	11	4	7	8	12	8	8	2	0	13	10	7	12	12	0	0	0	0	2	0	2	0	12	0
July	5.7	S.	21	SW.	0	2	3	3	11	28	11	4	0	0	1	20	10	10	8	0	0	0	0	0	0	0	0	10	0
August	4.9	E.	34	NW.	0	8	15	13	10	3	6	1	1	0	7	20	4	9	4	0	0	0	0	1	0	21	0	9	0
September	5.1	N.	34	NE.	0	14	6	8	10	6	5	3	7	1	15	15	0	0	0	0	0	0	0	0	0	18	0	8	0
October	5.8	N.	25	NW.	0	16	12	5	13	4	3	3	6	0	17	5	0												

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

WALLA WALLA, WASH.

[H=1,000 ft.; h₁=71 ft.; h₂=63 ft.; h₃=79 ft.]

Month.	Wind.													Number of days.														
	By self-register.					Number of winds, 8 a. m. and 8 p. m.								Precipitation.	Snow.	Maximum temp.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Electricity.							
	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northwest.	East.	Southwest.	South.	Southwest.	West.	Northwest.									Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	T. or more.	0.01 inch or more, included.	Hail.	Fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
	Miles	S.	Mi.	SE.	0	4	7	1	13	21	7	3	4	2	4	4	23	14	10	10	7	0	0	13	0	21	0	0
January	6.1	S.	35	SE.	0	4	7	1	13	21	7	3	4	2	4	4	23	14	10	10	7	0	0	13	0	21	0	0
February	5.2	S.	25	S.	0	0	3	3	20	20	6	2	1	0	6	4	18	15	13	12	10	0	0	6	0	22	0	0
March	5.2	S.	32	NW.	0	5	2	4	16	17	9	5	4	0	14	7	10	8	4	0	0	0	0	0	0	0	0	1
April	6.2	S.	30	SW.	0	0	1	4	10	19	10	6	0	1	11	13	6	8	7	0	0	1	0	1	0	2	0	0
May	6.5	S.	28	SW.	0	0	3	3	9	19	12	3	0	0	17	8	6	9	6	0	0	0	0	0	0	0	0	0
June	5.7	S.	32	SW.	0	0	2	3	8	21	13	8	3	0	20	6	4	5	2	0	0	0	0	0	0	0	0	0
July	5.7	S.	24	S.	0	1	1	2	8	8	22	15	10	3	0	6	6	1	1	0	0	0	0	0	20	0	0	1
August	6.0	S.	31	SW.	0	0	4	4	15	11	11	10	4	1	14	5	2	2	1	1	0	0	0	8	0	0	0	0
September	5.1	S.	30	SW.	0	0	2	2	15	20	10	6	3	0	13	9	0	0	0	0	0	0	0	0	0	0	1	3
October	5.9	S.	26	W.	0	0	2	2	9	23	14	5	2	2	13	0	0	0	0	0	0	0	0	0	0	0	2	0
November	6.2	S.	32	S.	0	1	2	5	12	25	11	4	1	1	4	2	24	17	12	2	1	1	3	0	6	0	0	0
December	5.1	S.	29	SW.	0	2	8	8	5	25	10	3	2	0	6	6	23	10	7	3	1	1	6	1	11	0	0	0
Year..	5.7	S.	35	SE.	0	31	43	41	126	257	128	62	35	7	153	81	131	98	67	27	19	1	9	20	35	63	7	2

WASHINGTON, D. C.

[H=112 ft.; h₁=62 ft.; h₂=42 ft.; h₃=85 ft.]

January	7.4	NW.	37	NW.	0	4	5	5	7	9	2	22	1	7	6	18	13	11	9	7	0	0	0	2	0	27	0	0
February	8.8	NW.	42	NW.	0	1	9	2	2	3	11	6	6	9	14	0	11	10	7	9	9	3	5	0	0	20	1	0
March	7.0	NW.	39	NW.	0	10	7	4	9	10	8	3	13	1	17	9	5	5	4	1	1	1	0	0	6	2	0	
April	6.8	NW.	34	W.	0	6	5	3	11	10	8	3	13	1	13	9	8	12	11	0	0	0	0	0	0	7	0	
May	6.9	NW.	30	SW.	0	7	3	5	3	12	8	10	14	0	13	14	4	16	13	0	0	0	0	0	0	5	0	
June	5.7	S.	27	NW.	0	6	7	4	4	8	11	3	9	0	14	6	10	16	12	0	0	0	1	0	4	0	7	
July	5.0	W.	30	W.	0	8	8	3	1	14	13	11	6	1	19	8	4	9	6	0	0	0	0	0	13	0	6	
August	5.3	NW.	18	W.	0	6	18	4	10	11	2	6	5	0	10	11	10	7	4	0	0	0	0	0	3	0	2	
September	4.1	S.	26	NW.	0	13	4	2	7	16	16	4	7	1	16	7	4	7	4	0	0	0	0	0	0	1	4	
October	5.0	NW.	29	SW.	0	7	5	2	3	9	10	4	14	2	20	7	8	9	0	0	0	0	0	0	0	2	1	
November	9.0	NW.	35	NW.	0	0	2	2	2	8	8	8	18	19	0	9	10	11	10	9	3	2	0	0	0	0	1	
December	7.5	NW.	36	W.	0	5	3	2	5	9	5	9	23	1	13	2	16	8	7	8	4	0	0	6	0	30	0	
Year..	6.5	NW.	42	NW.	1	83	63	36	75	130	81	92	162	8	162	95	108	122	99	24	15	0	9	13	22	94	36	

WICHITA, KANS.

[H=1,358 ft.; h₁=98 ft.; h₂=91 ft.; h₃=121 ft.]

January	11.5	NW.	40	NW.	1	8	3	0	11	14	7	1	18	0	13	8	10	3	2	3	1	0	2	7	0	26	0
February	12.4	S.	40	N.	1	14	4	1	7	20	3	3	4	0	11	11	6	5	5	6	4	0	0	7	0	1	0
March	11.5	S.	42	N.	3	4	8	2	6	24	11	1	6	0	19	10	2	0	0	0	0	0	1	0	0	3	0
April	13.9	NW.	54	SE.	3	9	3	3	5	17	1	2	20	0	12	12	6	5	4	0	0	0	0	0	2	0	3
May	10.6	S.	42	NW.	2	12	9	4	11	12	6	1	7	0	9	9	13	15	13	0	4	0	0	0	2	0	11
June	9.9	SE.	33	NW.	0	5	9	9	25	7	0	0	5	0	10	17	3	7	6	0	0	0	0	0	7	0	7
July	7.3	SE.	47	N.	1	5	12	6	16	15	4	0	4	0	15	16	0	5	4	0	0	0	0	0	22	0	8
August	8.1	SE.	33	E.	0	7	8	6	28	5	5	2	1	2	7	20	4	9	8	0	0	0	0	1	0	12	0
September	8.3	SE.	30	W.	0	6	17	3	17	11	2	1	3	0	12	12	6	9	6	0	0	0	2	0	0	8	0
October	8.0	SE.	30	NE.	0	7	4	2	31	5	4	0	9	0	19	8	4	3	2	0	0	0	0	1	0	3	2
November	8.0	SE.	35	N.	0	11	8	1	17	8	7	0	1	0	13	13	4	0	0	0	0	0	0	0	0	12	0
December	8.4	NW.	26	SE.	0	8	10	3	13	8	4	1	15	0	14	11	6	3	2	2	1	0	1	1	0	28	0
Year..	9.8	SE.	54	SE.	11	96	95	40	187	146	54	11	101	0	154	147	64	64	52	14	6	4	8	15	54	98	49

WILLISTON, N. DAK.

[H=1,872 ft.; h₁=40 ft.; h₂=29 ft.; h₃=47 ft.]

January	7.3	SW.	44	N.	2	8	3	3	10	7	12	9	9	1	6	13	12	5	3	6	5	0	2	24	0	31	0
February	8.6	W.	52	W.	1	7	5	1	5	5	9	16	7	1	8	15	5	4	1	7	9	0	2	25	0	28	0
March	10.2	W.	58	W.	5	6	3	1	7	10	15	10	0	0	10	11	10	5	3	0	0	0	0	0	0	19	1
April	11.9	N.	50	N.	4	21	3	1	6	14	5	3	7	0	12	11	7	8	5	0	0	0	0	0	2	10	1
May	10.3	N.	48	NE.	4	25	2	2	15	11	4	2	0	1	8	11	12	7	6	0	0	0	0	0	0	8	1
June	10.2	SE.	48	NW.	3	11	6	4	19	7	6	3	4	0	17	6	7	11	10	1	0	0	1	0	8	2	
July	9.7	N.	41	W.	2	17	3	1	15	9	3	9	5	0	13	11	7	8	5	0	0	0	0	0	6	0	
August	9.2	NW.	50	W.	2	8	7	4	6	8	3	7	10	1	14	10	7	8	6	0	0	0	0	0	4	0	
September	8.3	N.	38	N.	0	8	14	5	5	10	5	5	6	0	16	5	9	4	2	0	0	0	3	0	1	8	
October	10.0	S.	54	W.	1	14	2	4	1	16	5	5	7	13	0	6	14	11	2	0	0	0	0	0	1	11	
November	5.0	NW.	26	N.	0	6	5	0	9	2	4	1	19	4	7	6	17	4	3	0	0	0	0	0	16	0	
December	5.1	NW.	30	NW.	0	3	2	3	11	3	12	6	19	3	6	16	9	6	3	13	6	0	3	22	0	31	
Year..	8.8	N																									

MONTHLY AND ANNUAL SUMMARIES, 1910.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

WILMINGTON, N. C.

($\phi=34^{\circ} 14' N.$; $\lambda=77^{\circ} 57' W.$)

Month.	Pressure.			Temperature.						Moisture.										
	Monthly mean.	Extremes.		Mean.			Extremes.			Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.				
		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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
January.....	In. 30.099	In. 30.685	In. 29.260	41.3	47.1	57.4	36.7	47.0	71	34	34	56	56	0.217	0.213	1.07	0.58	4.8	4.8	4.4
February.....	30.109	30.513	29.732	40.6	48.4	57.5	37.1	47.3	73	22	33	39	74	0.220	0.270	6.61	2.58	5.1	5.6	5.2
March.....	30.035	30.284	29.712	51.5	58.3	68.3	48.5	58.4	86	31	47	48	84	0.336	0.360	1.02	0.78	2.6	3.3	3.4
April.....	29.892	30.126	29.643	58.2	62.7	73.1	53.5	63.3	87	40	50	53	76	0.384	0.417	1.61	1.53	2.8	3.8	4.0
May.....	29.970	30.309	29.522	65.2	68.7	77.8	59.9	68.8	90	48	58	59	79	0.503	0.516	4.01	2.39	5.6	4.8	4.7
June.....	29.906	30.111	29.621	72.2	74.2	82.6	68.5	74.7	92	56	66	67	81	0.646	0.668	7.52	2.42	5.5	7.1	5.6
July.....	29.924	30.167	29.659	76.4	76.5	86.2	71.9	79.0	92	63	72	72	87	0.777	0.777	6.99	2.31	6.2	6.2	5.7
August.....	29.950	30.150	29.787	74.5	76.4	83.7	70.3	77.0	90	65	71	72	90	0.87	0.792	8.47	2.94	6.9	5.3	6.6
September.....	29.994	30.156	29.849	70.4	73.8	82.8	67.2	75.0	94	55	66	68	88	0.663	0.695	1.88	0.80	4.5	4.4	5.4
October.....	29.966	30.449	29.427	61.3	67.3	75.9	57.6	66.8	88	31	57	59	85	0.500	0.537	1.72	1.01	3.2	1.3	3.3
November.....	29.883	30.247	29.478	43.7	51.4	60.9	40.1	50.5	73	32	37	40	78	0.234	0.265	0.92	0.42	4.1	1.7	3.4
December.....	30.069	30.468	29.468	37.3	43.8	52.9	33.2	43.0	67	22	32	34	80	0.196	0.209	1.30	0.81	3.1	2.8	3.5
Year.....	29.983	30.685	29.260	57.7	62.4	71.6	53.6	62.6	94	22	52	54	81	0.454	0.476	43.72	2.94	4.5	4.3	4.6

WINNEMUCA, NEV.

($\phi=40^{\circ} 58' N.$; $\lambda=117^{\circ} 43' W.$)

January.....	25.682	26.029	25.075	13.7	25.1	31.8	8.3	20.0	47	-15	13	23	98	93	0.087	0.126	0.76	0.60	6.1	6.3	6.4
February.....	25.692	26.000	25.236	20.5	33.9	38.7	15.9	27.3	55	-15	18	28	92	81	0.113	0.154	0.89	0.44	5.5	6.0	6.2
March.....	25.630	26.023	25.296	36.8	57.5	61.4	34.6	48.0	72	28	34	32	88	39	0.194	0.180	0.24	0.08	3.6	6.1	5.0
April.....	25.649	25.917	25.285	38.0	64.7	68.8	36.1	52.4	87	23	31	26	75	26	0.172	0.139	0.63	0.37	4.3	4.6	4.6
May.....	25.660	25.866	25.406	44.3	70.3	75.0	42.4	58.7	98	32	34	31	68	25	0.194	0.172	0.27	0.26	3.1	3.2	3.2
June.....	25.559	25.761	25.350	48.0	76.7	81.6	46.4	64.0	97	38	51	30	52	18	0.174	0.164	0.09	0.09	1.9	1.7	1.8
July.....	25.588	25.769	25.375	56.6	83.7	91.0	54.6	72.8	98	40	43	47	63	28	0.340	0.340	0.10	0.05	1.3	3.4	2.5
August.....	25.628	25.752	25.434	48.9	83.7	89.3	46.1	67.7	95	37	35	41	61	23	0.207	0.265	0.00	0.00	1.0	1.0	1.0
September.....	25.601	25.789	25.343	44.5	71.8	77.9	41.8	59.8	88	34	35	46	71	44	0.211	0.321	0.71	0.52	1.3	2.9	2.5
October.....	25.703	25.948	25.274	35.0	60.5	67.8	32.5	50.2	85	24	29	38	79	48	0.163	0.237	0.96	0.47	8.2	2.9	2.9
November.....	25.643	25.858	25.263	32.9	47.4	55.9	28.8	42.4	71	15	26	30	78	56	0.146	0.171	0.81	0.48	4.0	6.5	6.4
December.....	25.741	25.953	25.456	26.6	36.0	43.5	22.9	33.2	59	9	24	31	90	81	0.134	0.174	2.01	0.59	4.7	6.2	6.4
Year.....	25.640	26.029	25.075	37.2	59.4	65.2	34.2	49.7	98	-15	29	34	76	47	0.174	0.204	7.47	0.60	3.0	4.2	4.0

WYTHEVILLE, VA.

($\phi=36^{\circ} 56' N.$; $\lambda=81^{\circ} 05' W.$)

January.....	27.681	28.173	27.018	28.7	34.3	43.3	25.1	34.2	60	13	25	29	87	81	0.148	0.167	2.72	0.97	6.8	6.5	6.5
February.....	27.713	28.050	27.196	28.3	34.0	41.9	23.6	32.8	63	8	24	28	83	80	0.142	0.169	1.87	0.77	5.6	4.3	4.7
March.....	27.716	27.973	27.329	41.1	52.4	62.5	37.4	50.0	80	22	37	42	85	70	0.227	0.276	0.91	0.46	3.3	3.1	3.1
April.....	27.500	27.886	27.303	46.5	54.1	63.5	41.3	52.4	78	31	41	44	82	72	0.262	0.298	3.79	1.50	4.8	6.5	5.4
May.....	27.669	27.980	27.291	54.0	58.8	67.8	46.6	57.2	82	28	48	48	79	68	0.341	0.347	2.56	0.59	4.4	5.1	4.4
June.....	27.638	27.843	27.313	61.0	65.7	74.5	55.4	65.0	87	38	56	59	85	79	0.466	0.509	5.06	1.26	5.4	7.1	5.3
July.....	27.665	27.836	27.405	67.5	71.6	80.8	62.0	71.4	88	49	64	60	90	82	0.606	0.652	3.24	1.54	4.5	6.1	4.2
August.....	27.723	27.896	27.552	63.3	68.8	78.0	58.7	68.8	88	54	61	64	92	84	0.538	0.594	3.70	1.13	5.4	5.5	4.9
September.....	27.763	27.934	27.596	60.9	64.4	77.1	56.8	67.0	86	41	59	61	93	88	0.503	0.535	3.85	2.54	4.4	3.8	4.8
October.....	27.700	28.012	27.404	50.8	54.8	66.8	46.6	56.7	80	23	46	48	83	80	0.331	0.367	2.94	0.91	4.2	2.8	3.9
November.....	27.546	27.881	27.221	32.7	37.6	46.8	28.3	37.5	66	18	26	28	74	66	0.138	0.154	0.93	0.51	4.9	4.0	5.0
December.....	27.665	28.131	27.105	24.8	29.9	37.5	22.5	30.0	61	9	21	24	85	78	0.115	0.134	2.12	1.12	6.1	6.0	5.7
Year.....	27.670	28.173	27.018	46.6	52.2	61.8	42.1	51.9	88	8	42	45	85	77	0.318	0.348	33.69	2.54	5.0	5.1	4.8

YANKTON, S. DAK.

($\phi=42^{\circ} 54' N.$; $\lambda=97^{\circ} 28' W.$)

January.....	28.745	29.193	28.196	14.3	26.4	8.5	17.4	49	-16	10	.....	80	.....	0.073	.....	1.16	0.65	6.2	.....	6.6
February.....	28.807	29.213	28.239	11.5	27.8	8.1	17.0	47	-12	6	.....	80	.....	0.061	.....	0.21	0.20	5.1	.....	5.4
March.....	28.689	29.125	28.262	38.8	64.4	36.5	50.4	88	26	31	.....	73	.....	0.173	.....	0.39	0.39	3.6	.....	4.4
April.....	28.588	28.983	28.144	43.2	65.1	39.5	52.3	100	21	34	.....	73	.....	0.209	.....	0.62	0.62	3.1	.....	5.0
May.....	28.720	29.148	28.351	48.0	66.1	44.2	55.2	83	30	40	.....	76	.....	0.256	.....	2.12	0.73	5.5	.....	5.5
June.....	28.663	28.888	28.453	63.2	81.5	58.2	69.8	95	42	55	.....	76	.....	0.448	.....	1.85	0.99	4.8	.....	4.8
July.....	28.615	28.861	28.314	67.1	86.0	62.1	74.0	98	51	59	.....	76	.....	0.509	.....	3.87	1.78	4.3	.....	4.6
August.....	28.670	29.008	28.409	61.9	80.9	58.6	69.8	96	45	56	.....	83	.....	0.469	.....	3.37	1.81	4.9	.....	5.3
September.....	28.712	29.186	28.383	54.3	73.8	51.0	62.4	90	37	50	.....	85	.....	0.368	.....	4.72	2.24	4.5	.....	5.2
October.....	28.662	29.095	28.283	46.5	69.5	43.5	56.5	81	24	39	.....	76	.....	0.253	.....	1.64	0.92	3.1	.....	3.9
November.....	28.752	29.194	28.310	27.0	43.6	28.1	33.4	63	11	21	.....	77	.....	0.114	.....	0.02	0.02	5.6	.....	5.9
December.....	28.786	29.261	28.419	17.8	31.0	13.1	22.0	46	-2	12	.....	78	.....	0.078	.....	0.36	0.24	4.7	.....	6.4
Year.....	28.699	29.261	28.144	41.1	59.7	37.0	48.4	100	-16	34	.....	77	.....	0.251	.....	20.33	2.24	4.8	.....	5.2

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

YELLOWSTONE PARK, WYO.

[$\phi=44^{\circ} 58' N.$; $\lambda=110^{\circ} 42' W.$]

Month.	Pressure.			Temperature.						Moisture.											
	Monthly mean.	Extremes.		Mean.			Extremes.			Dew point.	Relative humidity.		Vapor pressure.		Precipitation.	Cloudiness.					
		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.	Total.	Maximum in 24 hours.	8 a. m.	8 p. m.	Daylight.
January.....	In. 23.840	In. 24.261	In. 23.414	° 12.7	° 17.6	° 23.7	° 7.3	° 15.8	° 42	-15	9	12	52	78	0.069	0.079	In. 1.90	In. 0.94	6.9	8.3	7.4
February.....	23.782	24.230	23.270	11.4	17.7	25.8	4.5	15.2	40	-20	8	11	84	73	.068	.073	1.61	.37	6.4	6.8	6.0
March.....	23.906	24.171	23.558	30.5	42.8	48.6	27.4	38.0	62	16	24	26	75	51	.127	.139	1.82	.45	5.0	5.9	5.2
April.....	23.899	24.248	23.351	32.2	51.2	56.3	30.2	43.2	74	13	25	29	75	47	.137	.162	1.19	.31	4.4	6.0	4.7
May.....	23.919	24.176	23.621	36.7	54.3	59.2	33.5	46.4	78	23	31	34	80	51	.175	.201	2.34	.56	4.9	6.5	5.7
June.....	23.875	24.188	23.507	45.1	67.3	70.9	41.1	56.0	85	27	35	33	69	29	.202	.188	.61	.13	4.0	4.7	4.5
July.....	23.962	24.145	23.680	50.6	72.2	78.0	48.0	63.0	87	39	40	40	70	34	.258	.257	1.72	.86	3.6	5.0	4.4
August.....	23.967	24.194	23.678	43.9	68.5	73.7	40.9	57.3	84	23	32	32	64	29	.185	.187	.52	.19	1.0	3.3	2.6
September.....	23.950	24.188	23.609	40.7	57.5	63.3	37.3	50.3	78	23	34	33	77	44	.200	.196	.78	.23	6.1	6.4	5.3
October.....	23.963	24.284	23.517	35.5	46.7	55.6	31.5	43.6	75	12	25	27	66	48	.136	.146	1.49	.43	3.1	5.3	3.9
November.....	23.843	24.104	23.482	28.4	32.8	39.7	22.8	31.2	55	0	21	24	76	70	.116	.131	1.53	.44	6.2	6.6	7.3
December.....	23.898	24.215	23.459	20.3	24.9	31.1	14.9	23.0	40	2	16	17	80	70	.087	.092	.88	.41	4.5	6.5	5.8
Year.....	23.900	24.284	23.270	32.3	46.1	52.2	28.3	40.2	87	-20	25	23	75	52	.147	.154	15.39	.94	4.7	5.9	5.2

YUMA, ARIZ.

[$\phi=32^{\circ} 45' N.$; $\lambda=114^{\circ} 36' W.$]

January.....	29.967	30.319	29.637	43.7	61.0	65.6	40.4	53.0	81	25	26	27	53	29	0.151	0.153	0.02	0.02	1.1	1.8	1.7
February.....	29.981	30.164	29.604	43.7	69.1	73.2	40.9	57.0	86	30	27	28	52	22	.151	.162	.0	.0	.3	1.2	.7
March.....	29.809	30.042	29.523	52.0	80.7	84.9	50.1	67.5	98	41	38	39	60	24	.232	.240	.02	.02	.3	1.6	1.3
April.....	29.745	29.907	29.546	57.4	88.9	91.3	55.2	73.2	106	47	33	40	50	20	.227	.255	T.	T.	.4	1.1	1.1
May.....	29.653	29.808	29.442	60.3	95.3	98.2	59.5	78.9	120	47	43	44	54	17	.290	.294	.0	.0	.5	.7	.5
June.....	29.591	29.719	29.408	65.7	109.6	103.1	65.2	84.2	115	58	51	51	60	20	.379	.386	.0	.0	.3	.3	.3
July.....	29.605	29.748	29.383	77.8	103.4	106.2	75.9	91.0	116	64	64	63	64	30	.314	.351	.84	.82	1.0	.8	1.2
August.....	29.629	29.759	29.461	77.3	104.1	106.8	76.4	91.6	113	64	65	64	67	28	.332	.399	.18	.11	.8	.5	.5
September.....	29.625	29.755	29.465	69.9	98.9	103.0	68.0	85.5	112	56	57	60	66	30	.488	.532	1.22	1.22	.2	.9	.6
October.....	29.730	29.894	29.493	58.4	83.0	89.9	56.3	73.1	106	44	42	47	58	30	.279	.331	.07	.07	.6	.9	.8
November.....	29.825	29.999	29.584	51.2	69.8	76.9	48.0	62.4	94	37	43	47	75	46	.286	.330	1.58	1.46	.8	.9	1.2
December.....	29.900	30.109	29.661	44.8	63.7	71.4	41.7	56.6	80	30	28	34	53	34	.157	.201	.0	.0	.1	.5	.9
Year.....	29.750	30.313	29.383	58.6	84.9	89.2	56.5	72.8	120	25	43	45	59	28	.324	.340	3.93	1.46	.5	.9	.9

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

ANNUAL METEOROLOGICAL SUMMARY FOR THE YEAR ENDING DECEMBER 31, 1910—Continued.

YELLOWSTONE PARK, WYO.

[H=6,200 ft.; h₁=11 ft.; h₂=4 ft.; h₃=48 ft.]

Month.	Wind.														Number of days.													
	By self-register.				Number of winds, 8 a. m. and 8 p. m.										Precipitation.	Snow.	Thunderstorms.	Auroras.	Maximum temp.	Minimum temperature 32° or below.	Elec- tricity.							
	Average hourly ve- locity.	Preval- ling direc- tion.	Maximum velocity.	Direction at time of maximum velocity.	Number of days with gales.	North.	Northeast.	East.	Southeast.	South.	Sout. west.	West.	Northwest.	Calm.								Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	T. or more.	0.01 inch or more melted.	Hail.	Fog.	32° or below.	90° or above.
	Miles.		Mi.																									
January	9.1	S.	36	S.	0	4	0	0	4	25	24	2	2	1	3	8	20	16	11	17	14	0	0	24	0	31	0	0
February	9.5	S.	36	SW.	0	4	2	0	1	17	19	6	6	1	1	6	13	18	12	22	18	0	0	22	0	28	0	0
March	8.6	S.	45	SW.	1	1	0	0	1	25	27	1	6	6	1	6	14	9	11	5	9	6	0	0	0	0	0	0
April	7.8	SW.	42	S.	1	3	1	0	1	17	21	4	12	1	9	15	6	9	8	8	7	0	0	1	0	16	2	0
May	6.8	SW.	35	SW.	0	9	0	0	0	10	23	3	17	0	5	15	11	15	11	6	5	0	0	1	0	11	7	0
June	7.3	SW.	35	SW.	0	2	2	1	1	14	21	5	13	2	11	13	6	9	6	0	0	2	0	0	0	3	6	0
July	7.4	SW.	44	S.	2	2	0	2	1	14	24	5	12	1	11	17	3	12	8	0	0	1	0	0	0	0	3	15
August	7.3	SW.	42	SW.	1	5	0	1	1	11	22	8	14	0	19	11	1	5	4	1	1	3	0	0	0	0	6	0
September	8.0	SW.	31	SW.	0	8	4	0	1	9	24	3	11	0	7	18	10	6	2	2	2	0	0	0	0	5	5	0
October	8.6	SW.	36	SW.	0	5	0	0	0	16	28	2	10	1	13	11	7	11	10	4	3	0	0	0	0	14	1	0
November	7.9	S.	31	SW.	0	4	3	0	2	19	22	2	8	0	4	9	17	14	12	20	14	0	0	4	0	25	1	0
December	6.9	S.	33	S.	0	2	1	0	4	20	27	5	3	0	8	9	14	10	5	13	10	0	0	15	0	31	0	0
Year	7.9	SW.	45	SW.	5	49	13	4	17	197	282	46	114	8	105	148	112	140	98	104	79	6	0	67	0	191	43	0

YUMA, ARIZ.

[H=141 ft.; h₁=9 ft.; h₂=2 ft.; h₃=58 ft.]

January	7.1	N.	35	SW.	0	32	7	4	2	3	1	2	11	0	25	5	1	1	0	0	0	0	0	0	0	0	7	0	0
February	7.3	N.	30	W.	0	24	5	0	1	4	4	9	9	0	27	1	0	0	0	0	0	0	0	0	0	0	1	0	0
March	6.1	W.	32	W.	0	10	10	4	3	11	9	12	3	0	26	3	2	1	0	0	0	0	0	0	0	0	0	0	0
April	6.3	W.	33	N.	0	8	9	3	5	7	9	15	4	0	23	2	2	0	0	0	0	0	0	0	0	16	0	0	0
May	6.1	SW.	33	N.	0	4	1	1	2	4	27	15	8	0	31	0	0	0	0	0	0	0	0	0	0	26	0	0	0
June	5.9	W.	24	SE.	0	0	2	1	5	5	12	28	7	0	28	2	0	0	0	0	0	0	0	0	0	29	0	0	0
July	6.4	SW.	39	SE.	0	1	2	3	10	11	20	12	3	0	28	2	1	3	2	0	0	0	0	0	0	31	0	4	0
August	6.5	SW.	33	S.	0	1	0	3	11	14	19	14	0	0	31	0	0	2	2	0	0	0	0	0	0	31	0	1	0
September	5.1	SW.	39	SW.	0	3	2	2	4	14	19	14	2	0	29	1	0	1	1	0	0	0	0	0	0	30	0	1	0
October	5.7	W.	32	N.	0	11	9	8	2	6	3	13	10	0	29	2	0	1	1	0	0	0	0	0	0	13	0	1	0
November	5.0	N.	36	S.	0	23	6	1	3	1	2	4	20	0	26	2	2	3	3	0	0	0	0	0	0	1	0	0	0
December	5.7	N.	25	N.	0	29	11	2	2	4	0	5	9	0	29	1	1	0	0	0	0	0	0	0	0	0	3	0	0
Year	6.1	N.	30	SE.	0	146	64	32	50	84	125	143	86	0	335	21	9	12	9	0	0	0	0	0	185	11	8	0	

PART IV.

MONTHLY AND ANNUAL PRECIPITATION, 1910 (ALL STATIONS)—MONTHLY AND SEASONAL SNOWFALL, SEASON 1910-11 (SELECTED STATIONS).

The precipitation values given in the following tables have been taken largely from the records of unpaid cooperating observers. 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 1910-11 are given for selected stations in the United States and Canada.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDRETHS) FOR 1910.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Alabama.</i>													
Alaga.....	2.28	4.92	1.68	7.50	1.26	9.82	9.10	0.78	0.84	2.66	1.60	3.46	45.90
Anniston.....	3.62	5.67	1.09	3.21	4.88	6.72	4.15	3.19	3.15	3.76	1.34	3.51	44.39
Ashville.....	4.41	4.91	1.77	3.07	6.14	6.49	4.04	1.06	.....	1.79	1.41	2.89	.....
Auburn.....	4.49	7.97	0.98	3.76	3.04	5.63	4.41	6.07	2.97	1.99	1.52	3.80	46.54
Benton.....	3.56	6.49	1.08	2.33	5.60	6.94	5.42	1.84	.....	3.86	3.26	1.76	.....
Bermuda.....	4.06	5.84	1.64	5.06	3.77	5.06	11.26	1.36	6.03	1.05	3.50	3.29	51.92
Birmingham.....	3.75	4.17	0.55	2.53	4.65	7.14	10.80	4.60	3.04	2.42	1.46	2.55	47.66
Bridgeport.....	4.14	4.92	2.02	2.37	5.69	8.77	8.34	3.00	1.47	3.24	1.26	5.15	50.37
Calera.....	3.81	5.87	0.79	3.23	3.68	6.60	6.20	2.52	1.59	3.79	1.04	2.61	41.73
Camp Hill.....	3.90	6.48	0.90	4.22	2.83	5.52	8.91	3.46	2.37	0.87	1.05	2.69	43.20
Cedar Bluff.....	3.36	4.93	1.20	1.85	6.86	8.48	3.12	2.35	3.30	2.20	0.44	3.55	41.74
Citronelle.....	3.03	6.17	1.61	2.76	3.59	7.35	6.60	3.87	2.57	5.74	2.07	2.87	48.23
Cianjon.....	3.25	5.90	0.65	3.59	4.07	5.95	8.54	2.38	2.54	4.00	2.09	4.63	47.29
Cochrane.....	.....	3.78	0.52	2.52	1.87	0.49	3.54	1.36	.....	.....	.....	.....	.....
Cordova.....	1.94	4.72	0.70	2.69	3.73	7.27	6.76	5.22	2.83	5.15	1.16	2.17	44.44
Cullman.....	3.53	4.46	1.01	2.41	6.16	8.01	6.17	4.58	1.89	3.50	1.15	4.07	47.24
Dadeville.....	3.18	6.43	1.69	3.73	2.66	5.69	6.97	3.03	0.30	2.95	2.14	4.04	42.81
Daphne.....	1.89	5.97	3.36	1.92	2.77	7.66	12.10	3.74	3.77	4.83	2.92	5.93	56.86
Decatur.....	4.49	5.58	0.65	3.08	5.91	7.23	6.38	1.55	2.67	4.31	2.07	5.03	48.95
Demopolis.....	3.48	5.34	0.18	4.86	2.56	4.52	7.36	1.24	3.66	4.12	2.38	3.74	43.44
Eufaula.....	3.72	4.62	2.58	7.04	1.22	5.26	9.00	1.42	2.84	1.56	2.88	3.38	45.52
Evergreen.....	4.60	.....	.....	6.00	2.60	3.58	8.01	2.06	2.36	0.30	2.01	2.15	.....
Flomaton.....	2.46	5.75	0.64	2.21	1.87	10.49	6.73	1.30	3.35	1.19	3.20	2.60	41.79
Florence.....	4.63	5.54	1.26	1.67	5.46	5.04	6.40	1.50	1.54	3.60	1.62	3.94	42.20
Fort Deposit.....	.....	6.25	1.02	5.94	2.11	6.63	11.24	2.32	2.53	3.54	2.63	.....	.....
Gadsden.....	3.54	4.33	1.74	2.98	5.52	7.82	4.48	4.56	2.64	3.54	0.89	3.16	44.40
Goodwater.....	3.48	3.85	2.17	3.10	4.37	4.57	5.20	4.37	2.92	2.60	1.62	1.40	30.65
Greensboro.....	3.30	3.84	0.18	2.20	3.46	5.75	8.41	3.81	1.51	3.26	2.36	4.01	42.09
Greenville.....	1.60	6.34	0.95	7.53	2.46	8.45	5.14	0.70	0.82	1.92	3.22	3.17	42.30
Guntersville.....	3.86	3.68	1.02	1.90	8.54	7.32	9.18	2.10	2.12	3.98	0.67	3.65	48.02
Hamilton.....	4.90	5.49	0.70	1.65	3.41	6.11	7.07	4.07	0.64	2.66	1.25	4.45	42.40
Highland Home.....	2.73	6.38	1.04	4.43	2.61	6.30	7.94	1.97	0.76	3.89	3.75	3.17	44.97
Livingston.....	3.55	5.72	0.53	2.77	3.51	9.67	4.74	0.36	2.18	2.53	3.22	3.40	42.18
Lock No. 4.....	4.06	5.35	0.73	4.05	6.25	4.41	4.30	3.75	2.20	3.23	1.06	3.52	42.91
Madison.....	3.39	5.36	0.50	2.50	5.89	6.70	9.08	1.60	2.64	4.60	2.04	4.40	48.70
Maple Grove.....	3.58	4.25	1.96	3.64	7.17	8.17	7.15	2.33	1.10	2.24	1.24	3.68	46.54
Montone.....	3.15	3.43	1.10	2.55	5.62	6.49	4.37	1.02	0.65	3.75	1.06	4.93	38.62
Milledge.....	4.10	5.96	1.50	3.00	6.83	6.49	8.00	0.80	1.20	2.28	2.14	3.42	37.42
Mobile.....	2.63	6.40	1.93	1.54	2.29	6.49	11.70	5.10	1.07	7.45	2.08	3.78	52.46
Montgomery.....	3.21	6.58	0.85	2.66	1.69	7.81	10.27	1.86	1.26	1.41	2.75	3.43	43.78
Newbern.....	3.74	4.91	0.44	2.40	4.04	6.62	9.12	5.33	1.62	3.77	2.62	3.25	47.86
Oneonta.....	4.45	4.45	1.78	2.69	4.96	8.22	6.40	4.54	4.14	2.98	1.44	3.34	49.39
Opelika.....	3.26	7.50	1.21	2.86	2.96	4.29	8.24	3.98	2.60	1.78	1.54	3.82	44.04
Ozark.....	1.60	6.70	1.30	5.98	1.26	7.59	5.77	1.90	1.60	5.00	2.20	3.05	43.95
Prattville.....	3.05	5.32	2.25	2.17	3.97	8.13	4.94	4.14	2.65	.....	.....	3.32	.....
Pushmataha.....	4.78	5.38	0.67	3.09	3.09	7.20	6.82	1.68	2.75	3.14	3.84	3.49	46.02
Riverton.....	4.79	4.60	0.42	6.17	4.65	7.40	7.26	0.78	1.61	3.26	2.24	4.00	47.19
Scottsboro.....	3.85	4.14	1.30	1.33	7.92	9.37	6.58	1.27	3.66	3.55	1.74	3.53	48.04
Selma.....	3.18	5.86	1.82	4.62	3.25	7.78	8.04	3.22	2.10	2.92	2.60	4.06	49.46
Spring Hill.....	2.44	5.85	1.76	.....	.....	.....	.....	4.87	1.13	9.73	3.71	4.61	.....
Talladega.....	4.17	5.83	0.65	3.06	4.76	.....	6.49	.....	2.25	.....	.....	.....	.....
Tallahassee.....	3.52	7.15	1.96	2.56	2.32	6.72	8.46	5.41	4.14	2.63	2.02	3.57	50.46
Thomasville.....	3.59	5.12	0.73	1.22	4.66	9.62	8.99	1.71	2.74	3.55	4.92	3.43	50.28
Troy.....	3.62	5.18	2.99	5.59	2.64	6.68	7.67	1.71	0.68	1.64	3.79	3.03	45.22
Tuscaloosa.....	3.15	4.55	0.43	2.93	2.07	8.16	7.48	3.58	0.61	3.37	0.72	4.51	41.76
Tuscumbia.....	4.77	5.46	0.55	1.43	4.97	7.44	7.91	2.41	1.74	3.48	0.96	4.12	45.24
Tuskegee.....	3.17	7.40	0.52	1.15	2.41	8.32	3.24	1.39	2.86	2.11	2.32	2.75	37.64
Union Springs.....	4.80	5.33	1.42	3.79	2.81	5.80	6.58	1.41	4.67	2.71	1.81	3.54	46.67
Uniontown.....	3.25	4.56	0.24	3.92	3.20	4.73	9.18	1.61	3.24	4.24	2.85	3.23	44.25
Valley Head.....	3.05	4.06	0.89	3.17	6.66	7.99	6.78	3.09	2.43	3.38	1.33	2.87	45.60
Wetumpka.....	3.70	5.44	2.31	2.91	2.18	8.03	5.01	2.75	0.60	2.29	1.94	3.53	40.78
<i>Alaska.</i>													
Allackaket.....	1.62	0.15	0.52	0.53	0.50	1.63	2.54	1.55	0.82	0.50	0.16	0.28	10.80
Barrow.....	.....	.....	.....	2.32	1.91	3.50	1.77	1.70	1.05	3.59	2.23	0.83	0.87
Beluga.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Black Point.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Calder.....	8.35	6.20	9.90	9.20	5.17	4.65	3.75	4.80	7.79	21.35	9.27	14.05	104.48
Candle.....	.....	.....	.....	T.	1.03	1.68	.....	.....	.....	.....	.....	.....	.....
Chickaloon.....	.....	.....	0.03	0.20	0.42	1.19	1.42	0.49	1.46	0.71	0.27	0.51	.....
Coal Harbor.....	.....	0.20	1.51	.....	.....	.....	1.40	1.40	5.20	4.80	.....	.....	.....
Copper Center.....	1.25	0.33	0.21	0.00	0.05	0.48	1.66	0.50	0.85	1.02	0.31	0.30	6.96
Cordova.....	8.89	7.50	16.18	5.34	6.21	5.82	7.51	6.39	12.61	19.70	6.37	9.33	111.85
Dahl.....	2.19	0.32	T.	0.04	1.06	1.05	1.20	2.05	1.03	0.00	0.01	0.01	8.66
Dutch Harbor.....	7.27	4.61	2.39	2.95	6.23	4.18	0.46	.....	17.43	11.10	7.86	.....	.....
Eagle.....	0.83	0.01	0.53	0.25	0.28	1.35	2.28	.....	2.65	2.98	0.69	0.25	12.08
Fairbanks.....	.....	0.14	0.02	0.36	0.39	2.16	0.46	1.69	1.91	0.68	0.52	0.76	.....
Fort Gibbon.....	1.10	0.29	0.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fort Lisicum.....	8.79	6.45	9.80	2.19	5.94	2.68	2.69	4.35	8.90	9.07	1.20	2.33	64.99
Fort Yukon.....	2.50	0.75	.....	.....	1.00	.....	.....	.....	.....	.....	.....	.....	.....
Goldengate Falls.....	.....	.....	.....	.....	.....	.....	.....	.....	2.12	.....	.....	.....	.....
Gulkana.....	1.20	.....	.....	.....	.....	.....	.....	.....	2.28	0.32	.....	.....	.....
Holy Cross Mission.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.01	.....	.....
Hogan.....	.....	0.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hot Springs.....	1.64	.....	0.60	0.20	3.40	0.78	.....	2.16	.....	.....	.....	.....	.....
Juneau.....	3.08	0.88	3.15	4.53	10.17	2.70	9.94	1.55	.....	.....	.....	.....	43.88
Ketchikan.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Killsnoo.....	3.50	0.81	1.50	1.65	1.20	2.30	4.45	.....	7.44	28.92	14.88	18.37	.....

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDRETHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Alaska—Continued.</i>													
Rampart.....	0.84	0.80	0.36	0.07	0.20	0.98	0.71	0.62	0.43	0.45	0.26	0.32	6.04
Seward.....	3.32	4.52	2.50	0.55	1.43	2.59	2.15	2.45	7.12	5.72	1.55	4.91	38.81
Sitka.....	10.06	5.17	6.51	6.13	3.44	3.47	3.74	3.35	8.14	9.98	4.86	12.08	76.83
Sikaway.....	2.80	1.49	4.78	1.28	0.46	1.80	2.30	1.71	1.21	4.31	.....	.....	30.14
Sunrise.....	3.22	4.39	1.66	1.55	0.98	1.44	1.74	2.80	4.94	2.29	4.06	.....	4.06
Tanana.....	1.23	0.08	0.69	0.28	0.69	0.57	1.79	2.26	0.74	0.38	0.31	0.59	9.52
Valdez.....	6.78	3.08	3.47	0.79	4.43	2.68	2.60	2.94	8.09	8.73	1.47	3.00	48.06
<i>Arizona.</i>													
Allaire Ranch.....	0.55	0.00	0.12	0.05	0.00	1.08	1.70	3.25	1.79	0.11	1.59	0.01	10.25
Arizona Canal Dam.....	1.30	T.	1.00	0.14	0.02	0.27	1.60	0.74	0.00	0.02	2.07	0.52	7.08
Aztec.....	0.59	0.00	0.10	0.69	0.00	0.00	0.31	0.11	0.32	0.19	1.05	0.06	3.42
Benson.....	0.55	0.00	0.13	T.	T.	0.39	1.70	1.51	0.81	0.00	0.75	0.10	5.94
Bisbee.....	0.28	0.15	0.07	0.07	T.	0.54	5.72	3.22	1.84	0.24	0.61	0.13	12.85
Bonita.....	1.85	0.00	0.90	0.30	0.00	.....	.....	3.30	0.05	0.12	0.84	.....	8.36
Bowie.....	0.77	0.00	0.00	0.10	0.00	0.25	1.30	1.69	0.15	T.	1.18	0.05	5.59
Buckeye.....	0.72	0.00	0.18	0.12	0.00	0.02	0.79	0.78	0.05	0.02	2.43	0.19	5.30
Canille.....	0.88	0.00	0.50	0.45	0.15	1.78	4.78	3.02	1.44	0.05	0.67	0.05	13.77
Casa Grande.....	0.61	0.00	0.75	T.	0.00	0.00	1.25	1.05	0.50	0.00	1.13	0.28	5.57
Casa Grande Ruins.....	0.62	T.	0.53	T.	T.	0.52	0.80	1.27	0.00	0.15	2.12	0.34	6.35
Cave Creek.....	1.42	0.00	1.00	0.15	T.	0.50	2.22	1.51	0.23	0.19	2.93	0.55	10.70
Chin Lee.....	0.37	0.27	0.12	0.25	T.	T.	1.96	1.53	0.14	0.75	0.98	0.46	6.83
Chlason's Mill.....	3.86	0.30	2.54	1.44	0.39	0.98	2.33	4.74	0.09	0.25	2.96	0.63	20.51
Clifton.....	0.60	T.	0.04	0.51	0.01	0.28	2.22	2.65	0.25	0.26	1.52	0.33	8.67
Cline.....	1.57	0.05	1.29	0.08	0.00	0.42	1.05	1.13	0.00	0.16	2.89	0.53	9.17
Cochise.....	0.75	T.	0.10	0.25	T.	0.20	2.61	3.55	4.70	T.	0.74	0.00	12.90
Columbia.....	0.33	0.00	0.62	0.15	T.	0.66	1.05	1.59	0.20	0.27	2.84	0.65	8.36
Congress.....	1.53	T.	0.40	0.19	T.	0.01	5.22	2.39	0.01	0.82	3.27	0.72	14.56
Courtland.....	0.52	T.	0.25	0.00	0.03	0.51	2.17	2.55	0.04	0.03	0.89	0.00	7.29
Dos Cabezos.....	0.93	0.00	0.15	0.68	0.00	1.24	4.06	1.88	0.32	0.00	1.30	0.00	10.56
Douglas.....	0.20	0.20	0.10	0.02	0.02	1.07	2.52	4.48	0.83	0.18	0.66	0.02	10.32
Dudleyville.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.05	1.96	0.41	.....
Fairbank.....	0.30	0.00	T.	0.00	0.00	0.90	4.82	3.40	0.75	0.14	0.40	0.00	10.71
Flagstaff (Weather Bureau).....	3.17	0.88	2.65	0.52	0.03	0.61	3.07	3.74	0.81	0.54	1.28	0.95	18.25
Flagstaff (C. C. Moers).....	3.04	0.91	2.35	0.97	0.05	0.91	3.93	.....	.....	.....	.....	.....	.....
Flagstaff (Forest Service).....	0.96	0.45	3.00	0.40	0.00	0.49	1.56	3.46	0.35	0.56	1.07	0.81	13.11
Florence.....	0.67	0.00	0.45	0.00	0.10	T.	2.15	1.00	T.	0.11	1.80	0.35	6.63
Fort Apache.....	2.09	0.07	0.62	0.77	0.32	0.26	2.07	3.85	0.25	0.06	2.56	0.72	13.44
Fort Huachuca.....	0.60	0.00	T.	0.00	0.00	1.35	3.40	2.95	0.02	0.20	1.02	T.	9.54
Fort Mohave.....	0.44	0.00	0.06	0.06	0.00	0.00	0.18	0.00	0.05	.....	.....	.....	.....
Gilabend.....	0.75	0.00	0.20	T.	0.00	T.	0.43	0.07	T.	0.06	0.45	T.	1.98
Globe.....	1.45	0.07	0.74	0.19	0.13	0.15	2.18	2.99	0.04	0.18	2.34	0.26	10.72
Grand Canyon (Agent Railroad).....	1.49	1.05	.....	.....	.....	0.48	.....	3.83	0.97	.....	1.30	1.48	.....
Grand Canyon (C. C. Spaulding).....	3.43	0.63	0.77	0.03	0.00	0.03	1.15	2.80	1.08	.....	.....	0.80	.....
Greer.....	1.33	0.60	0.55	.....	.....	0.50	2.94	3.93	0.71	0.67	1.76	.....	.....
Hereford.....	0.21	0.05	0.00	T.	0.00	0.33	3.82	2.25	1.46	0.05	0.64	0.00	8.81
Holbrook.....	1.12	0.16	0.54	0.55	0.00	0.41	2.63	1.03	0.07	0.09	1.33	0.21	8.14
Intake.....	1.60	0.00	1.00	0.12	0.00	0.60	1.45	1.45	0.00	0.07	1.70	0.25	8.24
Jerome.....	4.89	0.24	2.48	0.43	0.00	0.61	1.62	2.54	0.19	0.81	2.68	0.97	17.46
Keams Canyon.....	1.30	0.30	0.35	1.50	T.	0.37	3.84	1.71	1.23	0.84	1.73	0.68	13.85
Kingman.....	1.62	0.05	0.61	.....	.....	0.15	0.85	1.92	1.11	0.65	2.48	0.42	.....
Lewis Springs.....	0.14	0.03	0.01	0.01	0.06	1.52	2.47	1.96	0.85	0.02	0.46	0.00	7.53
Maricopa.....	0.31	0.00	0.38	0.11	T.	0.14	0.86	0.54	0.43	0.24	1.00	0.22	4.33
Mesa.....	1.03	0.00	0.79	0.05	T.	0.48	0.88	1.88	0.15	0.13	2.59	0.53	8.51
Mohawk Summit.....	0.00	0.00	T.	0.04	0.00	0.00	T.	1.26	0.06	T.	0.15	0.00	1.51
Naco.....	0.00	0.04	0.00	0.00	0.00	.....	2.64	4.31	1.62	0.24	0.32	0.02	.....
Natural Bridge.....	3.36	0.30	0.25	0.71	T.	0.60	1.95	2.46	0.40	0.42	3.66	1.13	15.44
Nogales.....	1.15	0.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oracle.....	0.08	0.75	0.97	0.38	T.	.....	.....	5.32	.....	0.29	2.19	1.12	.....
Osborn.....	0.08	0.20	0.04	0.03	T.	1.65	3.43	4.49	0.30	0.25	0.81	0.02	11.30
Paradise.....	0.15	0.57	T.	T.	0.00	2.35	2.27	1.25	0.80	T.	0.90	0.00	8.29
Parker.....	0.96	T.	T.	0.22	0.00	0.00	0.52	0.31	0.30	0.00	4.49	T.	6.30
Payson.....	2.49	T.	2.09	0.75	T.	0.71	1.03	2.26	0.31	0.94	2.89	0.67	13.50
Phoenix (Weather Bureau).....	0.50	T.	0.61	0.29	T.	T.	0.65	0.14	T.	0.18	1.61	0.34	4.32
Phoenix (Experiment Station).....	0.39	0.00	0.69	0.03	T.	0.61	0.12	T.	.....	0.18	2.09	0.36	4.47
Phoenix (Nursery).....	0.69	T.	0.88	0.10	0.00	0.10	0.28	0.55	0.00	0.04	1.72	0.42	4.78
Pinal Ranch.....	2.67	0.10	1.58	0.50	0.13	0.07	1.98	2.71	0.50	0.22	3.23	0.44	14.13
Pinto.....	1.57	0.70	0.82	0.12	.....	.....	4.26	1.01	T.	0.43	0.99	0.60	.....
Prescott.....	1.86	0.28	1.18	0.45	0.00	1.05	1.89	2.03	0.13	1.19	2.23	1.00	13.29
Quartzsite.....	0.00	0.00	0.00	0.38	0.00	T.	0.81	0.73	0.05	0.19	3.31	0.05	5.52
Red Rock.....	0.41	T.	0.20	0.20	0.01	0.24	1.09	3.45	0.03	0.03	2.34	T.	8.00
Roosevelt.....	2.30	0.31	1.22	0.28	0.02	0.02	1.21	2.27	0.03	0.30	3.13	0.33	10.42
Sacaton.....	0.21	0.00	0.38	T.	0.00	0.00	0.65	1.45	0.00	0.15	2.86	0.25	5.45
St. Johns.....	1.53	0.08	0.47	0.75	0.15	0.57	2.35	3.00	0.92	0.90	1.55	0.51	12.43
St. Michaels.....	0.74	0.13	0.50	0.33	0.05	0.76	3.01	1.04	0.57	1.13	0.84	1.26	10.51
Salome.....	0.45	0.00	0.04	0.72	0.00	T.	0.79	2.31	0.24	0.27	2.97	0.15	7.86
San Carlos.....	1.06	0.06	0.43	0.09	T.	0.07	1.54	1.92	T.	0.95	1.82	0.41	8.35
San Simon.....	0.34	0.00	T.	0.03	0.00	0.02	0.85	1.43	0.18	0.10	0.87	0.04	3.89
Seligman.....	.....	0.08	0.26	.....	.....	.....	.....	.....	0.26	0.50	1.17	.....	.....
Sentinel.....	0.06	0.00	0.00	0.20	0.00	0.00	0.52	0.05	0.25	T.	0.62	0.00	1.70
Showlow.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Silverbell.....	0.76	0.00	0.34	0.13	T.	1.16	3.11	1.85	1.21	0.06	2.93	0.45	12.02
Snowflake.....	.....	.....	.....	.....	T.	0.60	1.67	1.45	0.06	0.64	0.96	0.53	.....
Tempe.....	0.84	0.00	0.57	0.01	0.00	0.06	0.67	0.92	0.00	0.00	2.42	0.44	6.02
Thatcher.....	0.30	0.10	0.16	0.20	0.10	0.20	0.82	1.65	T.	0.04	1.21	0.00	4.78
Tombstone.....	0.18	0.00	0.13	0.14	0.00	0.51	4.91	4.05	0.94	0.09	0.52	0.00	11.77
Truxton.....	0.03	0.68	0.30	T.	0.02	1.02	2.55	0.04	2.59
Tuba.....	0.25	0.53	0.44	0.42	0.05	0.75	0.89	0.34	0.16				

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MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Arizona—Continued.</i>													
Williams.....	2.83	0.70	0.92	0.82	0.00	0.38	3.01	0.83	1.27	0.37	1.01	1.00	13.14
Winslow.....	1.66	0.40	0.40	0.20	T.	0.41	0.60	2.52	0.13	0.03	0.86	0.20	7.41
Yarnell.....	1.54	0.00	0.44	0.02	.....	0.10	4.02	4.35	0.05	0.70	3.51	0.90	51.33
Yuma (Weather Bureau).....	0.02	0.00	0.02	T.	0.00	0.00	0.84	0.18	1.22	0.07	1.58	0.00	3.93
Yuma (A. L. Crane).....	0.34	0.00	0.03	0.01	0.00	0.00	1.02	0.07	0.13	0.04	1.00	0.00	2.64
<i>Arkansas.</i>													
Alicia.....	3.45	2.52	0.95	4.60	4.90	4.95	4.70	3.55	2.85	8.35	0.55	.....	.....
Amity.....	1.74	4.48	1.84	5.56	7.31	2.00	4.48	4.12	2.81	2.24	0.15	5.15	41.88
Arkadelphia (near).....	3.35	4.05	1.36	4.66	6.43	5.28	1.53	4.00	0.84	5.79	0.50	4.44	42.32
Arkansas City.....	6.19	5.22	1.16	5.25	5.30	8.14	7.08	4.54	0.46	3.60	0.53	3.91	51.33
Batesville.....	1.65	3.46	1.27	4.94	8.90	6.16	7.39	3.38	3.06	7.76	0.58	2.94	51.49
Bee Branch.....	3.25	3.90	0.30	4.10	9.75	6.85	7.15	5.00	3.35	11.85	0.80	3.65	59.95
Benton.....	3.10	4.64	1.46	6.29	7.14	3.62	9.73	3.66	1.99	6.61	0.27	5.00	53.51
Bentonville.....	1.34	2.59	1.98	2.56	6.52	4.21	7.54	3.92	5.05	2.42	0.19	0.89	39.09
Bergman.....	0.74	2.71	1.51	1.71	5.19	5.02	4.36	7.37	3.68	2.86	0.17	1.39	36.71
Black Rock.....	2.36	3.03	1.07	6.20	6.61	3.90	3.94	2.45	4.08	5.35	0.41	3.17	42.55
Brinkley.....	4.19	6.12	1.13	6.36	6.26	5.97	12.44	1.12	3.04	9.17	0.08	5.29	61.17
Calico Rock.....	2.06	2.30	0.84	6.44	5.70	3.66	5.54	2.46	3.46	4.76	0.18	2.58	39.96
Camden.....	2.86	4.96	1.20	7.88	5.12	5.60	4.34	9.76	1.30	2.28	0.58	4.14	50.02
Centerpoint.....	1.67	3.82	2.05	4.48	7.95	2.18	4.71	4.69	1.40	3.55	T.	6.00	42.50
Clarendon.....	3.38	5.81	1.40	5.67	5.48	4.80	9.46	2.25	0.81	5.03	0.11	5.15	49.35
Conway.....	2.59	2.39	0.44	6.19	10.39	5.73	8.70	2.53	3.77	3.81	0.14	4.37	51.05
Corning.....	2.28	3.12	1.82	7.80	5.04	1.93	7.68	3.09	1.95	9.08	0.45	4.38	47.62
Dardanelle.....	1.50	1.76	0.92	5.03	6.99	5.79	5.94	2.68	1.79	5.34	0.78	2.62	41.14
Dennard.....	3.99	3.09	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dodd City.....	0.99	2.29	1.02	3.05	7.45	5.43	6.62	3.19	3.83	0.21	.....	1.93	.....
Dutton.....	.....	.....	.....	3.17	10.91	5.36	3.62	7.57	3.47	4.23	0.08	.....	.....
Earle.....	.....	4.43	1.43	4.84	4.02	4.12	.....	.....	0.11	7.05	.....	.....	.....
Eldorado.....	4.04	4.86	2.66	3.80	7.50	7.25	4.71	1.48	0.66	1.97	0.60	3.92	43.45
England.....	2.35	4.35	1.00	6.17	8.30	6.06	6.68	3.36	1.65	T.	.....	4.39	.....
Eureka Springs.....	1.49	3.12	1.55	2.05	5.18	4.85	8.22	2.82	3.67	3.85	0.15	0.84	37.79
Payetteville.....	1.44	1.86	1.57	3.88	6.57	2.32	5.98	2.07	2.99	3.60	0.09	0.75	33.42
Port Smith.....	1.18	1.82	0.87	2.22	4.82	3.04	2.71	3.91	1.09	2.69	0.45	0.59	25.39
Fulton.....	1.80	4.76	2.40	5.28	5.24	2.40	0.10	3.44	0.96	3.00	0.40	5.16	34.94
Hardy.....	2.63	3.06	1.01	4.94	6.75	5.33	10.29	1.79	4.77	6.34	0.54	4.09	52.14
Helena.....	3.50	5.50	1.24	5.50	5.76	3.76	4.36	1.56	0.64	4.94	0.94	2.98	42.68
Hot Springs.....	2.50	3.70	1.59	5.11	10.07	8.54	6.31	5.53	1.53	3.53	0.53	5.39	54.33
Huttig.....	4.48	4.41	0.91	3.53	6.23	8.32	6.31	3.83	2.02	2.70	1.42	4.37	48.53
Jonesboro.....	1.50	2.81	1.60	3.47	4.25	3.94	3.33	2.59	1.65	7.98	1.08	4.26	38.46
Junction.....	2.49	3.15	1.72	2.88	7.71	7.19	6.73	2.37	1.30	1.93	0.42	2.23	40.12
Lake Farm.....	2.82	4.44	1.31	6.07	6.81	6.27	2.65	3.81	0.82	4.84	0.24	5.43	45.51
Lewisville.....	2.90	4.66	1.61	7.33	6.16	4.52	3.03	4.74	0.56	5.16	0.47	4.14	45.28
Little Rock.....	2.76	4.59	0.87	5.73	7.19	7.25	4.73	3.82	3.12	6.44	0.09	5.40	51.99
Lutherville.....	2.13	2.40	0.74	5.54	7.46	5.02	3.27	4.26	3.41	5.43	0.88	2.09	42.63
Malvern.....	2.92	4.74	1.15	5.90	5.16	3.44	6.02	5.35	2.30	4.66	0.23	5.22	47.09
Mammoth Spring.....	2.21	3.17	1.00	4.96	4.09	6.30	10.16	2.21	9.34	4.33	0.55	2.86	51.18
Marked Tree.....	1.46	3.31	1.11	5.74	5.23	6.54	3.62	1.64	2.45	10.01	1.45	4.57	55.13
Meta.....	1.89	2.10	0.60	5.44	9.54	5.36	3.65	6.67	3.21	1.67	0.36	2.56	.....
Mossville.....	3.05	2.22	0.40	2.78	5.93	.....	.....	5.62	4.74	3.02	0.66	0.94	43.36
Mount Nebo.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Newport.....	1.21	3.17	1.10	4.57	6.79	4.06	2.37	2.88	2.52	10.88	0.45	4.25	44.25
Ozark.....	1.72	1.95	0.43	3.36	6.70	5.25	3.62	4.40	2.21	6.72	0.53	1.62	38.51
Pine Bluff.....	2.48	5.64	0.74	8.74	8.32	4.59	7.30	7.04	0.92	5.37	0.02	4.72	55.88
Pocahontas.....	2.42	2.71	1.39	8.46	5.16	2.67	8.84	1.54	3.23	7.40	0.45	2.97	47.24
Pond.....	1.10	1.60	1.94	3.53	7.61	2.73	5.80	1.79	2.28	2.47	0.35	0.93	32.43
Portland.....	5.52	3.57	3.05	2.94	6.36	6.52	7.25	2.64	0.73	2.52	0.93	4.80	46.83
Prescott.....	2.66	4.03	1.93	7.20	7.00	4.47	0.62	3.95	1.86	4.37	0.55	5.59	44.23
Rogers.....	1.64	1.00	1.73	3.15	6.02	2.24	6.32	3.54	2.51	4.05	0.18	0.80	34.38
Springbank.....	2.49	4.54	2.05	6.53	5.62	4.06	0.85	6.80	0.21	1.27	0.79	4.32	39.52
Stuttgart.....	3.15	5.45	0.93	6.22	6.65	6.19	6.93	1.77	1.49	5.01	0.11	4.31	51.91
Subiaco.....	1.40	2.74	0.93	4.43	6.72	4.71	4.09	3.41	4.75	6.73	1.10	1.62	42.58
Texarkana.....	2.24	3.89	2.74	4.67	6.16	4.46	1.71	7.24	0.96	3.29	0.49	4.51	42.36
Warren.....	3.85	6.57	2.02	5.81	5.46	4.61	4.55	7.19	0.98	2.56	0.75	4.66	48.71
Whitecliffs.....	1.92	4.08	2.64	5.09	4.70	1.01	1.12	3.97	0.05	1.95	T.	5.33	31.86
Wiggs.....	2.19	2.56	1.74	5.82	6.13	4.24	5.43	6.40	2.10	2.85	0.24	3.98	43.68
Wynne.....	3.32	5.72	2.54	6.41	7.20	3.98	4.78	0.90	1.10	10.08	1.21	4.76	52.00
<i>California.</i>													
Aguanga.....	4.49	0.72	1.82	0.14	0.00	0.00	0.19	0.00	0.13	0.68	1.53	0.16	9.86
Alhambra.....	4.10	1.25	2.00	0.64	T.	T.	T.	0.00	T.	T.	0.05	0.20	7.65
Alturas.....	1.27	1.28	0.43	0.26	0.63	0.24	2.29	0.00	1.91	1.01	2.59	2.25	14.16
Angels Camp.....	4.41	3.85	4.85	1.08	0.05	0.00	T.	0.00	0.65	1.65	1.83	2.14	20.76
Angiola.....	0.66	0.00	1.45	0.10	0.00	0.00	0.00	0.00	0.88	0.57	0.30	0.60	4.56
Antioch.....	1.70	1.18	1.41	0.10	0.00	T.	0.00	0.00	0.00	0.04	0.02	2.02	6.47
Aptos.....	5.06	1.93	4.38	0.66	0.00	0.00	0.00	0.00	0.15	1.23	0.73	1.85	15.99
Arrowhead Springs.....	4.13	0.48	2.51	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.90	.....	.....
Auburn.....	8.89	4.90	5.20	1.80	0.12	0.00	0.00	0.00	1.09	1.25	1.49	3.30	28.04
Avalon.....	1.12	0.09	1.64	0.16	0.00	0.00	T.	T.	0.13	1.05	0.08	1.14	5.41
Azusa.....	1.92	0.27	2.60	0.34	0.00	0.00	0.00	0.00	0.00	0.25	0.41	0.25	6.04
Bagdad.....	0.00	0.00	0.00	0.00	0.00	0.00	T.	0.00	0.00	0.00	0.00	0.00	T.
Bakersfield.....	1.15	0.22	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.83	1.37	0.54	5.31
Bear River.....	1.02	0.00	0.30	0.00	0.00	0.00	0.32	0.00	0.00	0.35	0.03	0.04	2.06
Bear Valley (Nevada Co.).....	10.89	6.19	5.66	2.55	0.50	0.00	0.00	0.00	.....	.....	.....	.....	.....
Bear Valley (San Bernardino Co.).....	11.71	8.77	8.01	3.17	0.74	0.08	0.00	0.00	2.28	1.72	5.06	7.90	49.44
Bear Valley Dam.....	2.90	0.43	2.09	0.59	0.00	0.00	0.20	0.00	0.06	0.75	1.62	1.79	10.43
Bear Valley Dam.....	10.47	0.57	2.63	0.52	0.00	0.00	0.73	0.00	0.00	0.95	1.25	1.16	18.28</

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDRETHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>California—Continued.</i>													
Boca.....	7.75	1.90	1.20	0.20	0.20	0.00	0.00	0.00	0.00	0.00	0.09	2.20	13.54
Boulder Creek.....	8.40	4.22	10.46	1.21	0.09	0.00	0.00	0.00	T.	1.72	0.77	2.25	29.03
Branscomb.....	12.74	13.36	4.49	2.50	0.76	0.37	0.00	0.00	0.06	1.17	14.45	5.63	56.53
Brawley.....	0.15	0.00	0.06	T.		0.00	0.00	0.00					
Brush Creek.....	8.48	8.50	5.91	1.47	0.32	0.00	0.00	0.00	0.80	2.20	5.63	4.31	37.62
Burney.....	3.80	3.95	1.65	0.34						0.58	4.58	5.34	3.34
Butte Valley.....	7.16	4.15	4.28	1.18	0.96	0.07	0.02	0.00	1.01	0.66	5.20	5.04	29.73
Calxico.....	T.	0.00	0.04	0.00	0.00	0.00	0.08	T.	0.52	0.00	T.	0.00	0.64
Caliente.....	1.40	0.00	2.33	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.36	5.18
Calistoga.....	7.16	4.20	5.01	1.14	0.15	0.00	0.00	0.00	0.10	0.52	1.60	2.32	22.26
Campbell.....	2.30	0.54	2.57	0.17	0.00	0.05	T.	0.00	T.	0.25	0.17	0.69	6.84
Campo.....	4.93	0.56	2.25	0.32	0.00	0.00	3.44	0.00	1.94	1.03	1.12	0.15	15.84
Camptonville.....	15.47	12.28	7.65	1.48	0.80	0.09	0.00	0.00	3.14	2.63	5.68	5.68	54.90
Cedarville.....	1.23	1.81	0.78	0.70	0.27	0.24	0.03	0.00	0.77	0.43	2.36	2.75	11.42
Chico.....	3.77	2.49	3.62	0.23	0.06	0.05	0.00	0.00	0.71	0.50	0.89	1.77	14.06
Chico (near).....	3.91	2.49	4.34	0.26	0.07	0.05	0.00	0.00	0.75	0.66	1.00	1.86	15.39
China Flat.....	7.11	6.63	1.49	0.44	0.55	0.33	0.00	0.00	T.	0.65	8.57	4.62	30.39
Chino.....	4.92	0.10	2.59	0.26	0.00	0.00	0.00	0.00	T.	0.48	0.12	0.38	8.85
Cisco.....	15.60	5.30	4.20	0.50	0.30	T.	0.00	0.00	2.60	0.50	7.30	5.90	42.30
Claremont.....	2.93	0.45	2.57	0.23	0.00	0.00	0.00	0.00	0.00	0.49	0.84	0.50	7.72
Cloverdale.....	7.48	4.23	6.70	1.02	0.21	0.03	0.00	0.00	T.	1.01	2.87	1.66	24.91
Colfax.....	0.96	6.00	6.61	2.33	0.55	T.	0.00	0.00	1.37	2.59	3.45	5.35	37.26
Colgate.....	8.67	5.39	4.39	0.61	0.79	0.04	0.00	0.00	1.68	1.05	2.74	3.09	28.45
Colusa.....	2.60	1.51	2.77	0.17	0.06	0.00	0.00	0.00	0.47	0.00	0.20		
Corning.....	2.26	2.11	3.54	0.46	0.00	0.00	0.00	0.00	0.76	0.61	0.77	1.34	11.85
Corona.....	3.08	0.10	1.31	0.00	0.00	0.00	0.00	0.00	0.37	0.35	0.44	0.44	5.65
Cuyamaca.....	6.33	1.35	5.19	0.92	0.00	0.00	1.50	0.09	0.33	1.86	2.62	1.12	21.31
Daunt.....	5.10	2.70	3.33	0.68	0.00	0.00	0.26	0.00	0.42	1.80	1.96	3.13	19.38
Davisville.....	1.75	0.40	2.57	0.13	0.02	T.	0.00	0.00	0.04	0.12	0.30	1.65	6.98
Deer Creek.....	10.13	7.40	9.85	2.92	0.34	0.10	0.00	0.00	2.72	2.72	4.64	5.98	46.80
Delta.....	12.06	6.85	6.65	2.14	0.00	0.00	0.00	0.00	0.20	0.04	0.04	0.02	6.14
Denair.....	1.66	0.55	3.00	0.72	0.01	0.00	0.00	0.00	0.36	1.86	2.26	0.80	18.01
Descanso.....	6.06	1.36	4.01	0.58	0.00	0.00	0.72	0.00	0.36	0.66	1.25	1.20	7.43
Dinuba.....	1.62	0.10	1.50	0.25	0.00	0.00	0.05	0.00	0.80	0.66	1.25	1.20	7.43
Dobbin's.....	7.16	5.55	4.52	0.81	0.56	0.04	T.	0.00	1.75	1.15	2.93	3.14	27.61
Downsville.....	11.52	7.43	7.75	2.38	1.15	0.13	0.00	0.00	2.48	1.25	5.32	6.51	45.92
Dudleys.....	6.05	2.62	5.00	2.07	0.13	T.	0.17	T.	0.92	1.18	2.38	1.90	22.43
Dunnigan.....	3.58	1.05	2.18	0.54	0.01	T.	0.00	0.00	0.32	0.13	0.14	1.83	9.78
Dunsmuir.....	9.00	6.70	4.39	1.81	1.33	0.46	0.00	0.00	0.78	1.58	10.34	4.97	41.36
Durham.....	3.97	2.39	3.32	0.20	0.13	T.	0.00	0.00	0.57	0.60	0.66	1.72	13.56
Dyerville.....	12.11	7.50	3.25	1.80	0.38	0.23	0.00	0.00	0.00	0.45	7.85	4.45	38.02
Edgewood.....	4.69	1.25	1.30	0.98	1.48	0.70	0.87	0.00	0.00	0.12	4.21	1.05	16.65
Edison.....	1.23	0.36	1.48	1.61	0.00	0.00	T.	0.00	T.	0.85	0.68	0.93	7.14
El Cajon.....	2.72	0.35	2.21	0.24	0.00	0.00	0.34	0.00	0.15	0.94	0.88	0.23	5.16
Electra.....	5.67	4.19	4.58	1.23	0.08	0.00	0.00	0.00	0.00	0.95	0.95	1.87	18.55
Elsinore.....	3.74	0.14	1.19	0.35	0.00	0.00	0.09	0.00	T.	0.53	0.19	0.14	6.37
Emigrant Gap.....	14.80	5.35	4.23	1.08	0.45	0.00	0.00	0.00	2.60	0.70	5.00	6.48	40.68
Escondido.....	4.03	0.49	1.82	0.88	0.00	0.00	0.25	T.	0.00	1.08	1.27	0.20	9.72
Eureka.....	7.26	7.34	1.97	0.83	0.64	0.49	0.00	0.00	0.01	0.82	6.86	3.43	29.65
Fairmont.....	4.47	T.	3.47	0.55	0.00	0.00	0.03	0.00	0.03	1.37			
Farmington.....	3.24	2.26	3.70	0.17	0.05	0.00	0.00	0.00	0.50	0.38	0.38	0.94	11.62
Felton.....	7.47	3.05	7.47	0.43	0.00	0.00	0.00	0.00	0.50	1.39	1.29	3.16	24.76
Firebaugh.....	2.61	0.20	1.00	0.21	0.00	0.00	0.00	0.00	0.79	0.85	0.34	0.10	6.10
Folsom.....	4.11	2.79	3.55	0.57	0.10	0.02	0.00	0.00	0.82	0.73	0.98	3.62	17.19
Fordyedam.....	10.35	7.50	7.42	1.94	0.92	0.10	0.14	0.00	4.12	1.35	6.91	6.66	47.41
Fort Bragg.....	8.43	6.85	4.04	2.82	0.45	0.50	0.00	0.00	T.	1.20	5.02	2.30	31.61
Fort Ross.....	6.52	8.19	7.34	1.75	0.22	0.25	0.00	0.00	0.00	2.49	4.13	2.27	33.17
Founts Springs.....	6.57	3.10	4.99	1.04	0.11	0.37	T.	T.	0.70	1.01	1.87	2.01	21.77
Fredalva.....	0.57	0.90	4.29	1.19	0.00	0.04	0.02	0.00	0.02	1.77	2.31	1.07	18.95
Fresno.....	1.22	0.21	1.28	0.27	T.	T.	0.00	1.00	0.45	0.24	0.21	0.21	4.88
Fruita.....	2.02	1.41	5.15	T.	0.15	0.10	0.00	0.60	0.15	0.30	0.55	1.07	11.80
Galt.....	3.61	1.72	2.52	0.17	0.00	0.00	0.00	0.40	0.37	0.20	0.20	1.55	10.54
Georgetown.....	10.70	7.88	6.86	1.88	0.21	0.00	0.00	0.00	1.62	2.13	3.24	5.25	39.77
Gilroy.....	5.79	1.18	3.07	0.40	0.00	0.00	0.00	0.00	0.05	0.54	0.41	0.97	12.44
Gilta.....				0.51	1.11	0.66	0.00	0.00	0.49	1.27	14.41	7.01	
Glenora.....	1.35	0.13	1.11	0.32	0.00	0.00	0.00	0.00	0.00	0.68	0.61	0.00	4.20
Glen Ranch.....	14.10	0.27	2.12	0.27	0.00	0.00	0.01	0.00	T.	0.69	0.59	0.21	18.25
Glenville.....	3.61	1.85	3.03	2.24	T.	0.00	0.10	0.00	0.14	1.39	2.33	0.96	15.65
Glenwood.....	6.95	2.78	8.00	0.85	T.	0.00	0.00	0.00	0.15	1.52	1.23	3.03	24.50
Gold Run.....	7.55	6.17	6.65	1.87	0.40	0.75	0.00	0.00	2.40	1.75	3.65	5.15	36.34
Gonzales.....	2.87	0.48	2.28	0.25	0.00	0.00	0.00	0.00	0.32	0.25	0.27	0.00	6.72
Grass Valley.....	7.94	6.32	6.33	1.61	0.27	T.	0.00	0.00	2.32	2.68	2.71	4.42	34.40
Green Valley.....	8.50	3.75	3.98	0.62	0.75	T.	0.35	0.00	1.51	0.27	4.44	4.42	28.59
Gridley.....	3.81	1.87	2.81	0.23	0.12	T.	0.00	0.00	0.24	0.41	0.27	1.65	11.51
Groveland.....	7.94	3.73	4.83	2.08	T.	0.12	T.	0.87	2.13	2.27	1.87	1.87	25.84
Guinda.....	4.46	1.24	1.00	0.19	0.00	0.00	0.00	0.00	0.41	T.	0.20	1.84	9.34
Hanford.....	2.40	0.00	1.66	0.24	0.05	0.00	0.00	0.00	1.51	0.31	0.24	0.24	6.69
Head Dam.....	9.40	8.18	5.67	1.10	0.94	0.05	0.00	0.00	2.63	1.64	4.36	4.60	38.37
Healdsburg.....	6.51	3.88	5.05	0.75	0.06	T.	0.00	0.00	0.00	1.19	2.13	1.92	21.49
Hearst.....	10.62	6.13	3.54	1.22	1.05	0.03	0.01	0.00	0.01	0.75	6.03	2.60	32.61
Heber.....	0.27	0.00	0.04	0.00	0.00	0.00	T.	0.32	0.28	0.09	0.06	0.00	1.08
Helen Mines.....	11.33	13.94	8.23	2.43	0.29	0.00	0.00	0.00	0.12	2.62	8.23	3.87	50.78
Hesperia.....	4.03	0.25	0.82	0.00	0.00	0.00	0.22	0.00	0.00	0.19	0.08	0.00	5.70
Holcombe.....	4.06	0.30	1.30	0.39	0.00	0.00	0.00	0.00					

PRECIPITATION, 1910.

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MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>California—Continued.</i>													
Jenny Lind	3.80	2.01	3.59	0.20	0.22	0.00	0.00	0.00	0.00	0.43	1.21		
Joloi	2.90	0.17	4.47	0.37	0.00	0.00	0.00	0.00	0.16	0.60	0.21	0.28	9.16
Julian	7.10	0.70	2.15	0.70	0.00	0.00	2.35	0.00	0.00	1.50	2.55	0.65	17.70
Kennedy Mine	5.33	3.28	3.59	0.73	0.23	0.00	0.00	0.00	0.33	1.09	1.30	1.95	18.03
Kent Field	10.60	8.50	6.40	0.72	1.04	0.20	0.00	0.00	T.	1.94	7.02	4.60	41.02
Kernfield	6.91	5.49	6.03	0.76	0.00	0.00	0.00	0.00	0.70	2.90	1.12	3.90	27.81
King City	0.60	0.00	0.74	0.00	0.00	0.00	0.25	0.00	0.15	0.77	0.18	0.74	3.43
Knights Landing	2.67	0.00	2.54	0.09	0.00	0.00	0.00	0.00	0.09	0.04	0.23	0.00	5.66
Knob	3.48	1.38	3.10	0.10	0.04	T.	0.00	0.00	0.10	0.12	0.24	1.52	10.06
La Grange	4.85	10.70	9.09	0.54	0.13	0.00	0.09	T.	T.				
Lake Eleanor	2.60	1.25	2.51	0.86	0.00	0.00	0.00	0.00	0.42	0.67	0.64	0.82	9.77
Lakeside	8.21	4.04	4.70	1.78	0.16	0.00	0.09	0.00	2.05	1.90	1.87	1.92	26.72
La Porte	2.05	0.37	2.34	0.00	0.00	0.00	T.	0.00	0.00	0.80	1.13	0.50	7.19
Lathrop	15.67	10.09	8.12	2.96	1.02	0.27	T.	0.00	2.66	1.07	9.38	8.98	60.22
Laurel	2.27	1.44	2.72	0.02	T.	0.00	0.00	0.00	0.23	0.22	0.08	0.94	7.22
Laytonville	9.75	3.50	8.20	1.00	0.00	T.	0.00	0.00	0.19	0.60	1.70	3.75	29.69
Le Grande	11.69	8.61	3.52	0.36	0.64	0.21	0.00	0.00	0.00	0.55	8.41	3.48	38.67
Lemon Cove	2.10	0.48	1.88	0.83	0.00	0.00	0.20	0.00	0.30	0.83	0.73	0.28	7.62
Lick Observatory	2.78	0.54	1.97	0.70	0.05	0.00	T.	0.00	0.39	1.10	0.45	0.80	8.78
Livermore	7.29	3.12	3.28	0.91	0.12	0.07	0.04	0.00	0.25	1.06	0.94	1.77	18.85
Lodi	2.50	1.14	1.90	0.10	T.	0.04	T.	0.00	0.10	0.29	0.10	1.32	7.49
Lone Pine	2.35	1.76	2.53	0.15	0.02	T.	0.00	0.00	0.46	0.32	0.21	1.27	9.07
Long Camp	T.	0.00	0.63	0.20	0.00	T.	0.18	T.		0.26	0.08	0.22	
Long Valley	7.11	3.92	5.86	1.90	0.47	0.00	0.19	0.00	1.60	2.50	1.80	2.50	7.85
Lordsburg	2.20	0.98	0.83	0.27	0.04	T.	T.	0.00	0.63	0.61	0.16	2.47	8.19
Los Alamos	3.97	0.66	2.62	0.21	0.00	0.00	0.00	0.00	0.00	0.42	0.65	0.28	8.81
Los Angeles	3.58	0.23	4.18	0.30	0.00	T.	0.00	0.00	0.84	0.12	0.58	0.46	10.29
Los Barrios	1.53	0.11	1.86	0.30	0.00	0.00	0.04	T.	0.01	0.82	0.15	0.07	4.69
Los Gatos	3.22	0.30	2.03	0.00	0.00	0.00	0.00	0.00	0.25	0.28	0.26	0.47	
Lowe Observatory	6.94	2.04	4.28	0.36	0.00	0.04	T.	0.00	0.02	0.60	0.58	1.72	18.58
Lytell Creek	1.40	0.14	3.80	0.27	0.02	0.00	T.	0.00	0.00	1.05	1.57		
Macdoel	8.19	0.61	2.78	0.42	0.00	0.00	0.00	0.00					
Madeline	2.62	1.11	2.34	1.05	0.50	0.02	0.67	0.00	0.42	1.11	2.97	0.90	11.71
Magalia	2.05	1.43		0.32	0.28	0.42	1.63	0.00	0.91	1.24	2.04	2.80	
Mammoth Tank	13.31	11.09	8.10	1.17	0.44	T.	0.00	0.00	1.85	2.74	7.99	2.63	49.32
Mariposa	0.52	0.00	0.07	0.00	0.00	0.00	0.76	0.10	0.35	0.00	0.91	0.00	2.71
Marysville	6.40	1.83	3.59	1.35	0.06	0.00	0.31	0.00	0.98	2.49	1.26	0.84	19.11
Mecca	4.20	2.33	2.67	0.17	0.00	T.	0.00	0.00	T.	1.50	0.55	0.81	12.23
Melones	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.85	0.00	1.15
Menlo Park	6.18	3.23	6.37	1.38	0.22	0.00	0.00	0.00	0.70	1.48	1.47	1.88	22.81
Merced	3.37	0.97	2.49	0.18	0.00	0.00	0.00	0.00	0.06	0.28	0.20	1.25	8.80
Merced Falls	2.77	0.95	2.56	0.00	0.00	0.00	0.00	0.00	0.27	0.85	0.43	0.50	8.94
Mesa Grande	1.77	0.86	2.29	1.32	0.00	0.00	0.00	0.00	0.39	0.69	0.79	0.45	8.56
Mill Creek (Amador Co.)	6.30	1.32	3.62	0.73	0.07	0.00	0.10	0.00	0.42	1.45	2.19	0.68	17.19
Mill Creek (San Bernardino Co.)	9.10	4.53	5.94	1.61	0.25	T.	0.00	0.00	1.61	1.57	3.33	4.47	32.41
Mills College	2.29	1.00	3.04	0.69	0.00	0.00	0.41	0.00	0.05	1.48	1.43	0.85	11.24
Milo	3.31	1.99	3.37	0.68	0.04	0.02	T.	0.00	0.06	0.37	0.82	1.65	12.31
Milton	4.32	0.38	3.15	1.26	0.00	0.00	0.30	0.00	0.39	1.53	0.69	1.36	13.38
Modesto	1.90	1.03	3.50	0.68	0.23	T.	T.	0.00	0.34	0.35	0.28	0.87	9.18
Mojave	2.25	0.50	2.80	0.00	0.00	0.00	T.	0.00	0.30	0.80	0.27	0.56	7.48
Mokelumne Hill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.10	0.50
Mono Ranch	5.06	3.90	5.09	1.08	0.19	0.02	T.	0.00	0.57	0.89	1.49	2.12	20.41
Montague	6.10	0.00	3.58	0.15	0.00	0.00	T.	0.00	4.35	0.77	0.54	0.88	16.37
Monterey	0.88	0.25	0.39	0.47	0.06	0.41	0.00	0.00	0.70	0.50	5.40	1.49	11.41
Monterey	5.14	1.08	3.13	0.47	0.00	0.00	0.00	0.00	0.14	0.94	0.90	0.55	12.35
Montgomery Creek	2.10	0.77	1.26	0.57	0.05	0.00	0.00	0.00	0.00	0.84	0.20	1.79	7.64
Monumental	9.19	9.65	5.59	1.63	2.79	0.35	0.00	0.00	2.32	1.02	8.57	7.20	47.21
Mount Tamalpais	17.17	17.25	3.22	4.49	3.19	2.10	0.00	0.00	0.58	3.47			
Mount St. Helena	2.96	4.25	3.35	0.68	0.23	0.03	0.00	0.00	0.17	0.91	0.63	2.05	15.26
Napa City	5.67	6.92	5.38	1.60	0.70	T.	T.	0.00	T.	0.00	2.55	1.83	24.65
Napa (S. H.)	3.64	2.39	4.09	0.54	0.05	T.	0.00	0.00	0.13	0.90	0.58	1.37	13.69
Needles	3.19	2.01	3.59	0.37	0.00	0.03	0.00	0.00	0.13	0.84	0.39	1.35	11.90
Nellie	0.88	0.00	0.11	0.21	0.00	0.00	0.44	0.91	T.	0.00	1.45	0.07	4.07
Nevada City	7.76	1.40	6.87	1.08	0.00	0.00	T.	T.	0.44	2.20	3.64	1.25	24.64
Newcastle	6.70	5.30	6.61	1.72	0.27	0.03	0.00	0.00	1.93	2.55	2.79	4.27	32.17
Newhall	4.62	3.58	4.36	1.17	0.16	0.07	0.00	0.00	1.22	2.62	1.60	3.31	22.71
Newman	1.30	T.	2.55	0.37	0.00	0.00	0.00	0.00	0.00	1.00	0.78	0.27	6.27
Nimshew	1.99	0.28	2.60	0.18	0.00	0.00	0.00	0.00	0.52	0.12	0.19	0.51	6.39
North Fork	10.30	8.66	6.76	0.94	0.51	T.	0.00	0.00	1.10	2.67	5.52	3.90	49.36
North Lakeport	6.68	1.53	2.69	0.98		T.			1.70	2.00	1.48	2.06	
Oak Dale	5.69	0.83	3.28	0.34	0.06	0.00	0.00	0.00	0.29	0.16	0.39	0.67	8.97
Oak Grove	2.95	0.20	2.03	0.25	0.00		0.80	0.06	0.34	0.97	1.51	0.19	
Oakland	3.16	1.64	3.66	0.27	0.02	0.01	T.	0.00	0.06	0.55	0.65	2.00	12.02
Oakville	6.68	2.57	4.63	0.84	0.00	0.00	0.00	0.00	0.12	0.40	0.95	1.82	18.01
Oceanside	1.62	0.11	1.76	0.07	T.	0.06	0.28	0.01	0.05	0.66	0.77	0.37	5.76
Ojai Valley	2.13	T.	2.84	0.26	0.00	0.00	T.	0.00	4.18	0.69	0.37	0.35	10.82
Orland	2.47	1.78	3.40	0.12	0.17	0.23	0.00	0.00	0.69	0.43	1.02	1.20	11.51
Orleans	7.06	8.38	0.90	0.88	0.98	0.28	0.08	0.00	0.28	0.94	11.60	5.35	36.73
Oroville	3.64	2.45	2.72	0.26	T.	T.	0.00	0.00	0.08	0.47	0.83	1.77	12.22
Ozena	2.52	6.60	2.25	0.55	0.00	0.00	0.25	0.00	4.30	0.75	0.45	1.00	12.87
Palermo	4.10	2.80	2.75	T.	T.	T.	T.	0.00	0.10	0.50	0.80	1.65	12.00
Palm Springs	1.90	0.00	T.	0.00	0.00	0.00	0.80	0.22	T.	0.30	0.80	0.00	3.94
Parkfield	2.40	0.43	2.54	0.40	0.00	0.00	0.00	0.80	0.40	0.21	0.68	0.76	7.96
Pasadena	2.96	0.31	2.56	0.32	0.00	0.02	0.02	0.00	0.05	0.75	0.28	0.15	7.42
Paso Robles	3.51	0.28	3.82	0.22	0.00	0.00	0.00	0.00	0.63	0.27	0.17	0.	

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>California—Continued.</i>													
Porterville.....	2.37	0.22	1.96	0.34	0.00	0.00	0.04	0.00	0.14	0.64	0.36	1.03	7.10
Priest Valley.....	2.79	0.90	3.48	0.30	0.00	0.00	0.00	0.00	0.35	0.96	0.26	0.58	9.62
Quincy.....	6.11	2.00	2.52	T.	0.06	0.00	0.00	0.00	2.00	2.22	3.82	4.92	23.65
Red Bluff.....	2.99	1.96	3.36	0.15	0.74	0.12	0.00	0.00	0.41	0.30	2.73	1.78	14.59
Redding.....	4.46	3.67	4.77	0.32	0.68	0.01	T.	0.00	0.05	0.48	2.96	3.60	24.00
Redlands.....	1.99	0.19	1.57	0.25	0.00	0.07	0.38	T.	0.20	0.51	0.48	0.67	6.31
Reedley.....	1.13	T.	1.52	0.30	0.00	0.00	0.00	0.00	1.04	1.12	0.47	0.36	5.94
Repress.....	4.88	3.23	3.87	0.60	0.07	0.04	0.00	0.00	0.74	0.79	0.72	3.30	13.30
Rialto.....	8.18	0.70	2.87	0.43	T.	T.	0.00	T.	0.01	0.59	0.65	0.19	13.62
Rio Vista.....	3.52	1.41	2.90	0.00	0.04	0.00	T.	0.00	0.26	0.20	0.06	2.32	10.73
Riverside.....	1.70	0.04	1.73	0.18	0.00	0.00	0.00	0.00	0.00	0.59	0.40	0.04	4.68
Rocklin.....	4.08	2.93	2.52	0.83	0.28	0.00	0.00	0.00	0.99	0.62	0.60	2.45	15.30
Rohnerville.....	7.41	7.81	2.64	1.01	0.73	0.38	0.00	0.00	T.	1.01	6.85	3.53	31.37
Sacramento (Weather Bn.).....	1.48	0.83	3.06	0.11	0.03	T.	T.	0.00	0.20	0.28	0.17	1.62	7.78
Sacramento (S. H. Gerrish).....	2.51	1.18	3.51	0.18	0.06	T.	T.	0.00	0.35	0.34	0.26	1.08	10.49
St. Helena.....	7.03	3.57	4.46	0.57	0.16	0.02	0.00	0.00	0.10	0.82	1.40	1.85	20.01
Saltus.....	3.69	0.69	1.55	0.19	0.00	0.00	0.00	0.00	0.12	0.31	0.32	0.61	7.48
San Bernardino.....	2.43	0.08	1.58	0.14	0.00	T.	0.05	0.63	0.36	1.04	0.54	0.03	6.28
San Diego.....	2.00	0.19	1.30	0.08	0.05	0.00	0.01	0.05	0.17	1.35	0.40	0.15	5.75
San Francisco.....	3.24	2.09	3.78	0.31	0.03	0.02	T.	0.00	0.05	0.65	0.48	1.73	12.38
San Jacinto.....	2.99	0.24	2.29	0.00	0.00	0.00	0.00	0.00	0.00	0.90	2.94	0.00	9.36
San Jose.....	2.31	0.83	2.84	0.41	T.	T.	0.02	T.	0.00	0.09	0.20	0.28	6.08
San Leandro.....	3.71	1.50	3.10						0.02	0.47	0.54	1.58	
San Luis Obispo.....	3.48	0.43	3.81	0.23	T.	0.00	T.	0.00	0.41	0.30	0.27	0.95	9.98
San Mateo.....	4.37	1.46	3.78	0.13	0.00	0.00	0.00	0.00	0.05	0.51	0.29	1.64	12.43
San Miguel.....	2.15	0.05	2.36	0.22	0.00	0.00	0.00	0.00	0.45	0.07	0.20	0.56	6.06
San Miguel Island.....	1.75	1.40	3.06	0.22	0.05	0.19	0.29	0.04	1.67	0.21	0.40	0.56	9.84
Sanger.....	1.05	0.00	0.15	0.27	0.00	0.00	0.00	0.00	1.45	0.70	1.40	0.20	5.22
Santa Ana River.....	1.35	0.97	3.30	0.33	0.03	0.00	0.09	T.	0.05	1.46	1.89	1.09	11.06
Santa Barbara.....	2.91	0.08	3.62	0.39	0.00	0.00	0.02	T.	2.56	0.29	0.33	0.75	10.95
Santa Clara.....	3.08	0.86	3.30	0.31	T.	0.03	T.	0.00	0.02	0.18	0.30	1.00	9.08
Santa Cruz.....	5.15	2.62	6.50	0.50	0.00	0.05	0.00	0.00	0.04	1.21	0.70	1.80	18.57
Santa Margarita.....	7.45	0.08	3.08	T.	0.00	0.00	0.00	0.00	0.65	0.05	0.10	0.71	12.12
Santa Maria.....	3.47	0.50	3.82	0.01	0.00	0.00	T.	0.00	0.65	0.72	0.15	0.45	9.77
Santa Monica.....	1.70	T.	2.09	0.22	0.00	0.00	T.	0.00	T.	0.83	0.49	0.28	5.61
Santa Rosa.....	4.94	3.75	4.17	0.85	0.08	0.05	0.00	0.00	0.01	0.68	1.76	1.68	17.97
Sausalito.....	3.11	3.14	3.63	0.28	0.04	0.00	0.00	0.00	0.24	0.70	0.64	1.91	13.69
Selma.....	2.00	0.14	1.09	0.35	0.00	0.00	0.00	0.00	1.50	0.55	0.33	0.47	6.43
Seven Oaks.....	7.28	0.35	1.51	0.38	0.00	0.00	1.38	0.80	0.00	0.81	1.10	1.10	14.48
Shasta.....	6.99	7.90	5.93	0.48	0.09	0.12	T.	0.00	T.	0.75	5.00	3.01	30.27
Shingle Springs.....	6.60	4.46	5.83	0.75	0.00	T.					1.50	2.60	
Sierra Madre.....	3.73	0.28	3.11	0.22	0.01	0.14	0.02	0.00	T.	0.73	0.79	0.31	9.34
Sterraville.....	5.27	3.30	3.15	0.09	0.00	0.00	0.09	0.00	0.90	0.02	1.87	2.80	17.49
Sisquoc Ranch.....	2.15	0.45	4.14	0.00	0.00	0.00	0.10	0.00	1.09	0.36	0.10	0.55	8.94
Sisson.....	7.40	1.94	3.36	2.10	1.12	0.00	0.00	0.00	0.55	0.92	0.09	2.67	29.15
Soledad.....	1.15	0.00	2.23	0.12	0.00	0.00	0.00	0.00	0.25	0.13	0.27	0.00	4.15
Sonora.....	6.28	2.81	4.33	1.77	0.04	0.00	0.00	0.00	1.05	1.67	1.86	1.69	21.50
Southeast Farallon.....	2.64	1.71	3.49	0.25	0.09	0.03	0.03	0.00	0.01	0.39	0.58	1.20	10.42
Speckels.....	6.16	0.53	2.69	0.25	0.00	0.00	0.00	0.00	0.13	0.37	0.32	0.60	10.95
Squirrel Inn.....	8.45	0.76	4.55	0.48	0.00	T.	T.	0.00	T.	2.69	2.19	0.52	19.64
Stirling City.....	8.50	5.29	6.00	0.40	0.65	0.10	0.00	0.00	1.35	2.15	6.40	3.55	35.05
Stockton.....	2.64	1.47	2.66	0.13	T.	T.	0.00	0.00	0.40	0.21	0.17	1.31	8.39
Storey.....	0.67	0.50	1.40	0.49	0.00	0.00	0.00	0.00	0.75	0.80	0.00	0.26	4.87
Suisun.....	2.96	1.26	3.07	0.05	0.02	0.00	0.00	0.00	0.34	0.25	0.30	0.04	8.32
Summerdale.....	10.02	2.93	3.66	1.39	0.12	0.00	0.29	0.00	2.34	2.03	2.50	2.44	28.32
Summit (Placer Co.).....	8.60	5.10	4.98	0.68	0.33	0.00	0.16	0.00	2.82	0.50	5.46	4.08	33.91
Summit (San Bernardino Co.).....	7.48	0.08	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	9.91
Surrey.....	3.06	0.17	2.90	0.42	T.	0.00	T.	0.00	T.	0.73	0.68	0.45	8.41
Susanville.....	3.66	0.90	1.20	0.08	T.	0.00	0.41	0.00	1.06	0.58	1.73	3.06	12.68
Tamarack.....	8.63	3.86	3.37	0.62	1.54	0.00	1.90	0.00	2.80	2.03	4.20	8.55	37.30
Tehachapi.....	T.				0.00	0.00	0.00	0.00	0.75	0.61	0.76	0.83	11.48
Tehama.....	2.00	2.55	3.23	0.18	0.10	0.25	0.00	0.00	0.40	0.32	0.88	1.37	11.48
Three Rivers.....	3.50	0.89	2.02	0.54	0.06	0.00	0.06	0.00	0.34	0.75	0.67	1.36	11.41
Towle.....	7.46	7.69	6.84	2.27	0.50	T.	0.00	0.00	2.14	1.96	4.22	5.68	38.67
Tracy.....	1.90	1.20		0.00	0.00	0.00	0.00	0.00	0.25	0.10	0.05	0.42	
Truckee.....	6.90	2.40	0.24	0.04	0.20	0.00	0.00	0.00	0.00	0.00	0.30		
Tulare.....	0.92	0.13	1.94	0.24	0.12	0.00	T.	0.00	1.00	0.40	0.41	0.73	5.89
Tustin.....	2.77	0.07	1.56	0.34	0.00	0.00	T.	0.00	0.00	2.15	0.29	0.75	7.93
Ukiah.....	7.81	4.24	2.60	0.86	0.37	0.18	0.00	0.00	T.	0.77	2.51	1.80	21.14
Upland.....	2.83	0.56	2.35	0.20	0.00	0.00	0.00	0.00	T.	0.38	0.82	0.23	7.37
Upper Lake.....	5.61	3.38	3.43	0.58	0.16	0.05	0.02	0.00	T.	0.76	1.84	1.71	17.54
Upper Mattole.....	15.75	13.05	4.28	2.87	1.48	0.28	0.00	0.00	0.03	0.76	18.81	5.50	62.81
Vacaville.....	3.33	1.66	6.82	0.21	0.03	T.	0.00	0.00	0.05	0.64	0.16	1.80	14.70
Valley Springs.....	5.84	1.93	3.85	0.59	0.24	0.00	0.00	0.00	0.40	0.42	0.60	1.34	15.21
Visalia.....	1.16	0.03	1.68	0.22	0.00	0.00	0.00	0.00	0.15	0.15	0.00	0.71	4.10
Warner Springs.....	2.90	0.25	2.67	0.12	0.00	0.00	0.00	0.00	0.73	0.79	1.77	0.40	11.33
Wasco.....	1.79	0.00	0.68	0.16	0.00	0.00	0.00	0.00	0.85	0.25	0.19	0.70	4.62
Watsonville.....	3.71	1.75	2.79	0.31	0.04	0.00	0.00	0.00	0.21	0.71	0.68	1.44	11.64
Wattspec.....	9.83	14.07	1.46	1.67	0.94	0.66	0.00	0.00	0.19	1.68	18.74	7.14	56.38
West Branch.....	10.91	11.37	7.36	2.07	1.31	0.15	0.00	0.00	1.10	2.52	7.74	5.41	49.94
Westley.....	1.57	0.35	3.02	0.00	0.00	T.	0.00	0.00	0.23	0.20	0.26	0.45	6.08
West Point.....	6.63	3.53	5.09	1.50	0.15	T.	T.	0.00	1.64	1.61	3.35	3.49	26.99
West Saticoy.....	0.76	0.00	2.51	0.35	0.00	0.00	0.00	0.00	3.55	0.68	0.02	0.35	8.22
Wheatland.....	3.14	2.37	3.23	0.25	0.09	T.	T.	0.00	0.25	0.58	0.65	1	

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MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDRETHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Colorado—Continued.													
Breckenridge.....	0.81	1.53	0.33	0.98	1.04	0.36	.....	0.45	1.71	0.85	0.47	1.05	.....
Buena Vista.....	0.66	0.45	0.10	0.07	0.47	0.15	1.80	0.41	0.31	0.11	0.45	0.92	5.90
Burlington.....	0.05	0.13	0.05	.....	2.28	1.08	2.02	4.56	1.58	0.06	0.08	0.12	.....
Cañon.....	0.11	0.26	1.05	1.82	1.74	0.25	5.71	2.79	0.15	0.04	0.61	0.54	15.07
Canon City.....	0.53	0.78	0.25	T.	0.86	.....	0.82	1.38	0.44	0.28	1.02	0.19	.....
Cascade.....	4.00	1.85	1.69	0.69	0.17	1.08	2.79	4.76	1.82	0.77	1.97	2.44	30.03
Cassells.....	T.	0.27	0.10	0.88	1.15	1.21	3.04	1.05	1.19	0.82	0.32	0.08	10.58
Castle Rock.....	0.10	0.40	1.67	.....	2.84	0.90	3.86	.....	1.93	1.33	.....	.....	1.19
Chocomañ.....	T.	1.10	0.40	1.75	3.13	1.53	5.57	1.50	1.80	1.50	0.50	0.90	21.38
Cheyenne Wells.....	T.	.....	0.09	1.15	2.54	0.88	2.76	3.10	1.53	T.	0.40	T.	.....
Cochetopa.....	0.55	0.59	0.25	1.05	0.85	0.50	0.89	2.03	0.54	1.86	0.35	0.41	9.87
Collbran.....	1.14	0.69	0.14	0.97	0.82	0.08	0.71	0.71	1.59	2.25	2.11	1.38	12.59
Colorado Springs.....	0.15	0.54	0.15	1.66	1.44	1.77	3.88	1.52	0.99	0.12	0.29	0.25	12.76
Columbine.....	2.80	3.47	1.13	1.42	4.10	.....	.....	1.53	1.19	1.13	0.90	2.86	.....
Columbine Ranch.....	1.17	1.20	1.41	0.47	0.56	0.03	1.67	3.99	1.63	2.38	1.93	1.96	17.40
Cope.....	0.48	0.10	0.96	1.52	3.41	0.28	2.16	3.83	3.14	0.76	0.12	0.14	16.90
Corona.....	3.62	4.42	3.14	2.74	5.27	0.19	1.10	0.58	1.92	5.16	3.84	3.92	35.90
Crawford (near).....	0.51	0.85	0.12	0.55	0.89	0.14	0.27	1.32	1.47	1.72	1.06	1.50	10.60
Crested Butte.....	1.00	2.55	0.62	1.88	1.09	0.93	1.56	1.37	1.85	1.79	1.61	3.04	19.40
Cripple Creek.....	0.21	0.96	0.77	0.41	1.82	1.40	3.69	1.88	1.14	1.59	0.66	0.66	14.29
Cuchara Camp.....	0.60	1.43	0.40	2.25	1.24	0.62	3.44	0.21	0.06	3.62	0.49	0.66	15.02
Cumbres.....	5.43	3.29	1.31	0.23	0.78	0.65	2.00	3.47	1.45	3.06	1.90	3.10	26.67
De Beque.....	.....	.....	0.31	0.20	0.33	0.40	0.24	1.50	.....	1.75	1.15	.....	.....
Delta.....	0.65	0.02	T.	0.26	0.17	0.04	0.18	0.37	0.38	1.30	0.78	1.60	5.75
Denver.....	0.16	0.35	0.96	1.38	2.50	0.20	3.47	1.79	1.00	0.21	0.16	0.71	12.89
Dillon.....	.....	1.35	0.50	0.28	0.31	0.50	2.36	0.15	1.51	.....	0.45	0.75	.....
Durango.....	1.53	0.98	0.64	0.55	0.09	0.72	0.95	1.28	0.33	2.91	1.92	0.94	12.84
Eagle.....	0.61	0.59	T.	0.52	0.80	0.32	1.58	1.48	1.69	0.57	0.70	0.27	14.10
Estes Park Fish Hatchery.....	0.46	0.18	0.16	0.98	3.03	1.39	2.87	1.40	1.99	0.67	0.70	0.27	14.10
Eureka.....	2.88	2.17	0.73	1.19	0.80	0.83	2.11	3.27	2.13	2.99	1.44	2.01	22.57
Fairview.....	0.40	2.63	1.95	3.98	3.09	0.11	1.31	2.48	1.12	3.02	1.11	1.06	22.26
Fort Collins.....	0.29	0.16	0.06	0.42	4.75	1.04	0.87	1.92	1.79	1.03	0.11	0.48	12.92
Fort Morgan.....	0.05	0.16	T.	.....	2.28	0.89	1.17	2.08	1.34	0.08	T.	0.17	.....
Frances.....	0.45	1.01	0.37	0.66	.....	1.89	4.13	.....	1.49	0.92	0.35	1.24	.....
Fraser.....	0.70	0.60	0.40	0.70	1.80	0.90	2.06	0.65	1.93	0.89	0.42	1.67	12.72
Fremont Experiment Station.....	0.01	0.44	0.51	1.28	2.50	1.53	4.44	3.31	1.01	0.86	0.53	0.61	17.03
Fruita.....	0.81	0.35	0.28	0.20	0.08	0.84	1.45	1.18	1.13	1.59	1.40	0.87	10.18
Fry's Ranch.....	0.70	0.18	0.74	0.67	2.74	1.25	1.28	0.92	2.63	1.07	0.34	0.65	13.17
Garfield.....	1.03	2.33	0.64	1.59	2.26	0.42	1.96	1.08	1.11	2.02	0.79	1.78	17.61
Garnett.....	0.07	0.53	0.27	1.05	0.46	0.06	0.12	1.07	0.69	0.64	0.35	0.00	5.11
Georgetown.....	0.29	0.37	0.29	0.39	2.24	1.01	2.74	1.51	0.71	0.71	0.45	0.68	10.96
Gladstone.....	2.58	4.80	3.09	1.69	1.64	.....	2.96	1.70	2.09	3.51	1.51	3.48	.....
Glensville.....	0.46	0.63	0.18	1.78	1.48	0.19	0.20	0.14	0.02	0.00	.....	.....	.....
Glenwood Springs (near).....	1.01	0.67	0.44	0.61	0.60	0.27	2.28	1.07	1.65	0.90	1.47	1.10	12.07
Grand Junction.....	0.38	0.14	0.11	0.32	0.26	0.25	0.96	0.60	0.92	1.26	1.30	1.11	7.61
Grandlake.....	0.79	1.78	0.75	.....	1.90	1.23	1.57	1.75	2.30	0.60	0.20	2.63	.....
Grand Valley.....	1.57	0.53	0.36	0.42	0.48	0.33	0.67	0.88	1.33	2.02	1.58	0.65	10.82
Greeley.....	0.18	0.13	0.40	0.84	2.76	0.53	0.24	1.15	0.49	1.06	0.11	0.56	8.45
Gunnison.....	0.50	0.96	0.05	0.65	0.30	0.27	1.00	1.62	0.61	0.90	0.56	1.39	8.81
Hampe.....	0.16	0.18	0.50	1.25	1.12	0.13	2.31	2.35	0.98	T.	0.11	0.27	9.36
Hartse.....	0.09	0.19	0.04	0.49	0.79	0.83	3.37	1.47	0.91	0.26	0.39	0.24	9.16
Hawthorne.....	0.69	0.60	0.25	1.04	4.22	0.58	1.58	2.09	1.22	4.31	0.26	0.59	14.53
Hermite.....	1.47	0.91	0.93	1.29	0.30	0.44	2.40	2.98	1.63	2.58	0.41	0.66	16.00
Hermite Lake.....	3.14	1.96	2.37	2.73	3.46	0.87	.....	3.18	2.34	1.41	1.26	1.63	.....
Hohne.....	.....	0.97	0.30	3.17	2.02	0.51	2.25	3.22	0.05	0.66	0.22	0.02	.....
Holly.....	0.16	T.	0.00	1.22	2.25	0.73	1.36	1.84	0.12	0.00	0.11	0.00	7.79
Holyoke (near).....	0.05	0.03	0.34	0.22	2.64	2.96	1.07	3.04	2.30	0.00	0.24	0.23	13.12
Horsefly.....	1.03	3.09	0.97	1.41	0.61	0.41	2.35	2.48	1.50	2.58	1.20	1.94	19.57
Idaho Springs.....	0.08	0.33	0.44	0.90	2.62	1.10	4.30	0.58	2.29	0.65	0.20	0.28	13.77
Ironton.....	2.11	2.12	1.62	2.17	1.09	0.70	3.02	2.70	2.70	3.95	0.68	2.44	25.30
Lake City.....	0.72	1.11	1.05	1.51	0.73	0.43	1.24	2.73	0.79	2.43	0.57	1.05	14.36
Lake Moraine.....	1.49	0.81	1.74	3.25	3.26	3.07	4.16	4.59	1.23	1.62	0.75	1.11	26.75
Lamar.....	0.20	0.79	0.00	1.31	2.58	0.54	0.91	0.66	0.90	0.00	0.10	T.	8.16
Laporte.....	0.31	0.12	0.01	0.48	3.24	1.63	0.67	1.47	1.60	0.78	0.28	0.27	11.06
Las Animas.....	T.	1.07	0.30	1.49	3.39	0.93	.....	1.08	0.45	0.42	0.39	0.00	.....
Laveta Pass.....	0.22	1.39	1.25	3.70	4.40	.....	.....	.....	0.22	2.57	1.30	0.77	.....
Lay.....	1.56	0.75	0.38	0.95	1.16	0.20	0.97	0.22	2.01	2.81	1.32	0.77	13.10
Leadville.....	1.63	1.23	1.04	0.64	0.95	0.64	1.94	1.07	1.23	0.98	0.55	1.15	13.05
Leroy (near).....	0.04	0.04	0.62	1.96	2.34	2.06	1.53	1.95	1.72	0.13	0.13	0.36	12.88
Limon (near).....	0.06	T.	0.00	1.70	1.87	0.04	2.30	1.71	0.64	T.	T.	0.17	8.49
Longs Peak (near).....	0.45	0.20	0.64	1.66	5.10	2.01	4.09	1.75	0.17	1.25	0.27	0.58	18.77
Madrid.....	.....	.....	.....	2.57	1.98	0.16	1.40	0.80	0.25	1.06	0.23	0.12	.....
Manassa.....	T.	0.15	T.	1.18	T.	.....	1.35	1.27	0.60	T.	.....	.....	.....
Manitou.....	1.18	1.42	1.46	1.87	T.	0.96	2.39	1.26	0.74	2.43	1.31	1.79	16.81
Marble.....	3.27	1.86	0.47	1.83	1.85	0.83	1.47	2.65	3.26	2.31	1.58	0.92	21.82
Marshall Pass.....	1.17	2.86	0.58	0.80	0.38	T.	.....	.....	0.15	0.36	0.79	1.05	.....
Meeker (near).....	0.90	0.78	0.24	1.08	1.36	0.60	1.00	1.89	1.95	1.98	1.34	1.24	14.36
Montrose.....	0.26	0.12	0.00	0.60	0.55	0.21	0.10	1.42	.....	1.92	0.19	0.96	.....
Moraine.....	0.32	0.27	0.25	0.05	1.49	.....	.....	0.30	1.55	0.25	0.14	0.78	.....
Nast.....	1.65	1.81	0.59	1.28	1.22	1.87	1.72	1.55	1.65	1.40	0.74	1.08	15.56
North Lake.....	0.40	1.62	0.52	2.25	1.02	1.07	3.52	2.53	0.08	1.52	0.40	0.62	15.55
Pagoda.....	.....	2.35	1.30	1.03	1.72	0.40	1.89	1.50	1.77	1.60	0.63	.....	.....
Pagosa Springs.....	1.68	0.82	0.76	0.82	0.34	1.02	2.47	1.96	0.41	2.42	1.95	1.49	16.14
Paonia.....	0.45	1.64	0.23	0.57	0.93	0.05	0.31	1.58	1.21	1.76	1.72	2.20	12.65

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Colorado—Continued.</i>													
Salida.....	0.77	2.00	0.80	1.48	0.79	0.54	1.90	1.85	0.47	0.90	0.35	0.45	12.30
San Luis.....	0.50	0.29	0.82	0.95	0.86	0.94	1.68	2.13	0.14	0.93	0.27	0.15	9.64
Sapinero (near).....	1.80	2.77	1.04	2.33	1.15	0.34	1.21	2.14	1.51	2.45	1.71	3.12	21.57
Sedgwick.....	0.20	0.02	0.92	0.48	2.59	1.29	1.78	3.76	2.60	0.10	0.11	0.22	14.07
Sheridan Lake.....	0.10	T.	T.	0.99	1.20	0.26	0.75	3.00	1.41	0.00	0.20		
Shoshone.....	1.13	2.18	0.45	0.75	1.25	0.27	0.60	0.84	2.38	1.04	1.68	1.28	13.85
Sill Mine.....	2.61	2.57	1.12	0.95	1.79	1.76	3.97	1.32	2.07	1.60	1.56	4.03	25.35
Silverton (near).....	4.45	1.87	1.35	0.60	0.67	0.97	2.36	2.45	2.51	4.88	0.83	1.30	24.24
Spicer.....	0.71	0.48	0.16	0.59	1.31	0.13	1.69	0.88	1.60		0.13	0.44	
Spruce Lodge.....	1.96	2.88	1.33	1.93	3.30	1.45	3.24	1.39	1.93	1.74	1.41	3.46	26.02
Steamboat Springs.....	1.38	3.53	0.49	1.21	1.45	0.37	1.23	0.60	1.85	1.87	1.37	2.28	17.63
Sterling.....	0.01	0.10	0.36	0.78	2.53	0.85	0.89	2.05	0.92	0.06	0.33	0.39	10.49
Stonewall.....	0.28	0.66	0.19	2.13	0.95	0.73	2.03	1.35	0.74	1.33	0.26	0.30	10.95
Tacoma.....	2.16	0.84	0.27	1.04	0.02	0.90	3.28	3.49	1.71	3.98	2.27		
Terminal Dam.....	3.75	1.25	0.83	1.79	0.21	1.27	2.15	2.18	1.09	3.25	3.09	1.44	21.30
Terrill's ranch.....						0.34	0.60	0.88	1.11	1.39	0.96	0.68	
Trinidad.....	0.18	1.12	0.05	3.84	0.43	0.08	2.55	0.42	0.05	1.41	0.10	0.06	10.29
Uncompangre Plateau.....	2.18	1.05	0.72	0.46	0.23	0.57	1.51	2.03	1.01	3.27	1.52		
Victor.....	0.13	0.25	0.87	2.11	1.78	1.36	3.29	1.39	T.	1.13	0.48	0.96	13.75
Vilas.....	0.00	0.10	T.	1.32	1.39	5.02	1.50	2.44	T.	T.			
Waterdale.....	0.16	0.14	0.11	0.79	3.54	1.88	1.34	1.16	1.67	0.96	0.26	0.40	12.41
Westcliffe.....	0.45	0.36	0.58	1.95	1.05	1.26	2.29	1.10	0.19	1.13	0.27	0.12	10.11
Winfield.....	1.04	0.29	0.66	0.24	0.85	0.87	1.37	1.55	1.90	1.80	0.41	0.40	13.04
Wortman.....	1.65	3.38	1.48	1.78	1.40	1.47	2.22	1.35	1.32	0.86	1.22	0.12	20.30
Wray.....	0.15	0.22	0.38	1.21	3.32	0.96	1.17	3.51	1.73	0.05	T.	0.11	12.81
Yampa (near).....	0.63	0.70	0.26	0.40	1.26	0.38	1.62	1.19	1.71	0.95	0.89	0.57	10.56
Yuma.....	T.	0.04	0.45	1.16	2.38					0.23	0.02	0.02	
<i>Connecticut.</i>													
Bridgeport.....	7.59	3.83	1.86	3.62	1.73	4.69	1.36	2.32	1.99	1.25	3.93	2.29	36.46
Carton.....	7.89	5.11	0.09	3.96	3.64	4.37	3.00	3.68	4.32	1.02	6.02	2.08	45.78
Colchester.....	6.97	3.39	3.64	4.00	2.59	4.01	2.63	1.94	2.63	1.66	4.72	2.05	40.72
Cream Hill.....	6.62	5.20	0.90	3.72	3.93	3.89	2.17	5.24	4.05	1.38	5.39	3.16	45.65
Danlison.....	6.14	3.07	1.78	2.55	2.11	2.84	2.76	1.37	4.02	1.88	3.19	1.48	36.49
Falls Village.....	6.18	4.82	1.06	4.17	3.21	3.22	2.21	5.00	4.34	1.12	5.05	1.98	42.36
Hartford.....	6.68	4.43	0.95	3.15	2.49	4.16	2.47	2.98	3.41	0.77	4.36	1.83	37.78
Hawleyville.....	6.22	3.98	1.42	4.42	3.29	3.33	4.46	4.59	2.17	0.78	5.04		
Lake Konomoc.....	6.30	4.80	1.71	2.88	2.14	3.98	3.22	2.13	1.77	1.12	4.39	2.16	36.60
New Haven.....	7.28	4.37	1.16	3.35	4.34	4.03	2.26	3.21	1.83	1.15	4.56	2.30	39.84
New London.....	5.78	3.69	1.46	1.98	3.21	3.83	3.10	2.15	2.21	2.58	4.60	2.77	37.36
North Grosvenor Dale.....	4.01	3.67	0.81	3.03	1.66	3.41	0.91	1.32	1.79	1.49	2.61	1.49	25.20
Norwalk.....	6.48	3.46	1.32	3.61	3.18	5.08	1.40	1.96	1.42	1.33	3.93	2.31	34.88
Southington.....	7.60	3.80	1.00	4.00	2.68	3.45	2.30	3.08	1.20	0.55	4.75	2.65	37.03
South Manchester.....	6.37	4.62	0.81	2.04	2.81	2.75	2.33	1.80	1.08	1.11	3.79	2.53	33.14
Storrs.....	3.73	3.93	1.31	3.20	1.50	4.88	2.24	1.99	4.66	1.42	3.51	2.39	36.76
Voluntown.....	4.53	3.02		2.37	2.57	3.94	2.90	3.31	2.04	1.66	4.03	3.31	
Wallingford.....	7.02	4.56	0.72	3.15	3.23	4.88	3.29	3.06	1.81	0.91	4.24	1.92	39.39
Waterbury.....	8.05	4.27	1.16	4.08	2.95	3.30	3.04	3.16	2.56	0.98	5.40	2.21	41.16
West Simsbury.....	6.27	4.33	0.64	4.28	2.61	4.10	2.39	3.89	3.90	0.98	4.60	2.15	40.23
<i>Delaware.</i>													
Delaware City.....	1.40	0.57	1.47	2.97	2.43	5.51	3.04	3.16	0.56	2.86	2.23	0.90	27.10
Dover.....	5.02	1.84	1.44	3.51	1.76	7.07	1.06	2.19	0.78	4.92	2.86	3.45	36.80
Milford.....	4.89	1.91	3.22	4.34	2.08	6.53	2.26	3.10	0.95	5.10	2.69	4.13	41.20
Millsboro.....	4.68	1.82	2.76	4.23	2.64	6.38	3.51	4.23	0.29	5.81	2.17	3.79	42.51
Seaford.....	4.38	1.16	4.02	4.21	2.06	6.36	6.88	3.82	1.24	8.26	2.26	2.81	48.14
<i>District of Columbia.</i>													
Washington.....	4.39	2.20	0.57	5.89	3.43	4.77	3.73	1.26	2.15	5.74	2.28	2.64	39.05
<i>Florida.</i>													
Apalachicola.....	1.98	8.10	1.56	2.14	T.	14.90	8.60	2.90	2.95	3.21	2.73	2.56	51.63
Arcadia.....	0.97	1.45	0.80	0.24	7.88	6.65	7.79	7.26	6.21	13.16	0.58	0.64	53.63
Archer.....	1.80	2.44	1.27	1.73	1.15	7.27	8.28	8.55	3.04	4.44	3.48	2.09	43.74
Avon Park.....	0.70	1.98	2.40	0.61	5.48	14.37	9.04	8.32	2.26	12.49	0.31	0.62	58.58
Bartow.....	0.93	2.79	2.19	0.66	2.50	8.97		6.66	2.52	12.65	1.10	0.81	
Blountstown.....	2.28	6.70		2.06									
Bonifay.....	3.58			5.00	T.	7.47	3.98	2.27		4.23	1.80	2.47	
Brooksville.....	1.62	4.25	1.47	0.43	0.68	13.42	5.75	13.74	1.99	6.35	2.50	0.27	51.87
Carrabelle.....	2.10	4.15	2.12					5.34	4.70	3.70	2.11	1.07	
Cedar Keys.....	1.79	1.45	0.53	0.69	1.03	10.40	6.28	10.74	2.42	2.69	1.40	0.49	39.91
Clermont.....	0.80	3.76		0.44	6.45	6.89	10.80	11.05	1.56	13.56	2.28	1.08	
De Land.....	0.57	3.65	2.78	0.61	1.71	15.29	6.79	11.93	1.95	14.28	1.62	0.63	61.78
De Funiak Springs.....	2.52	7.38	0.37	6.30	0.62	7.66	14.35						
Eustis.....	0.60	3.07	1.38	0.63	3.17	9.63	12.73	7.09	0.53	10.14	1.30	0.77	51.04
Federal Point.....	0.83	1.54	1.95	1.10	2.90	9.35	7.28	7.57	4.36	11.99	2.47	0.98	52.32
Fenholloway.....	3.32	6.63	0.34	0.00	0.91	14.37	9.50	10.50			1.83	1.09	
Fernandina.....	0.91	2.95	2.29	2.96	1.79	9.24	2.17	12.99	6.87	5.26	1.13	0.82	49.38
Fort Meade.....	0.92	2.90	1.47	0.20	1.80	9.68	8.14	7.14	1.06	13.60	1.23	0.25	48.48
Fort Myers.....	1.64	1.32	0.73	0.62	2.99	8.20	9.27	10.73	6.89	13.25	0.89	0.84	56.79
Fort Pierce.....	0.57	1.18	1.28	0.28	4.15	4.60	6.28	12.60	3.02	12.79	1.08	0.20	48.03
Gainesville.....	1.44	2.04	2.67	1.49	1.46	11.89	6.89	9.32	1.27	6.70	2.79	0.76	43.72
Grasmere.....	0.85	2.48	1.37	1.04	5.77	10.09	5.98	11.51	1.10	8.56	1.55	0.56	53.88
Hilliard.....	0.12	2.00	2.20	0.95	2.55	11.02	5.65	13.57	1.16	7.81	2.70	0.79	60.48
Homestead.....							4.74	8.57	10.85	15.12	0.75	0.35	
Huntington.....	0.99	2.35	1.61	1.00	2.64								
Hypoluxo.....	1.43	5.08	3.62	1.81	5.27	7.08	5.30	3.61	3.26	27.81			
Inverness.....	1.18	3.79	0.70	0.24	3.81	9.39	13.86	9.75	1.06	3.32	1.98	0.89	49.97
Jacksonville.....	1.06	2.43	1.89	0.60	2.18	6.72	6.13	5.82	3.12	8.02	1.64	1.07	40.68
Jasper.....	3.41	3.81	3.66	1.07	2.00	17.92	8.52	10.26					
Johnstown.....	1.20	2.31	2.19	1.03	4.23	8.24	7.63	10.90	1.58	6.09	1.53	0.65	47.53
Jupiter.....	1.47	2.33	6.45	0.51	4.26	7.53	4.99	10.46	4.92	20.88	1.31	1.11	

PRECIPITATION, 1910.

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MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Florida—Continued.</i>													
Kissimmee.....	1.29	2.47	1.52	0.36	2.39	9.53	10.52	7.38	0.74	11.65	0.63	0.65	49.13
Lake City.....	1.21	2.67	2.39	0.99	0.96	13.80	8.23	10.90	0.46	3.96	1.22	0.52	47.31
Live Oak.....	0.87	3.55	4.33	1.35	3.20	22.35	14.79	10.01	2.91	4.75	2.05	1.60	72.36
Macclenny.....	0.91	3.19	1.63	1.58	1.72	7.71	9.95	9.75	0.63	5.71			0.54
Madison.....	1.84	5.21	3.74	2.45	1.02	12.70	5.30	7.92	1.00	4.41	4.01	1.34	51.04
Malabar.....	1.10	2.38	1.78	0.28	1.76	7.64	5.05	16.16	2.94	12.62	0.74	0.33	52.78
Manatee.....	1.55	3.46	0.50	1.03	0.60	4.58				7.23	2.15	0.95	
Marianna.....	2.80	6.08	2.22	3.67	0.64	10.50	11.20	3.60	2.38	2.15	2.43	1.91	49.56
Merritts Island.....	0.67	1.09	2.04	0.30	1.43	7.43	3.92	3.76	5.50	13.84	0.67	0.42	40.97
Miami.....	1.46	0.70	0.67	1.16	3.06	6.78	5.12	6.90	3.67	21.45	0.45	0.55	51.97
Middleburg.....	2.35	2.18	2.40	0.90	3.23	3.32	5.15	14.78	2.78	7.50	1.50	0.70	51.79
Milligan.....		8.06	1.48	1.67	3.53								
Molino.....	1.63	9.72	1.48	2.34	3.26	7.36	7.63	6.17	3.35	2.62	2.34	6.57	54.47
Monticello.....	2.00		3.09	0.85	0.25	13.99	2.80	5.02	0.97				
Mt. Pleasant.....		6.90	2.63	2.75	0.66	9.95	10.73	2.98	3.29		4.47	1.49	
Newport.....	1.40	4.53	3.51		0.40	12.69	6.80	3.32		4.25	2.62	0.83	
New Smyrna.....	0.79	4.01	1.95	0.60	2.57	8.11	6.32	9.48	5.70	11.00	2.02	0.66	53.21
Ocala.....	1.19	3.34	1.02	1.24	1.18	11.22	8.04	10.79	1.86	4.98	2.79	0.94	48.50
Orange City.....	0.82	2.85	2.08	0.72	1.36	11.59	8.08	11.72	1.85	10.97	0.63	1.03	53.70
Orlando.....	1.01	2.69	2.65	0.38	2.87	15.25	9.71	6.36	2.82	11.73	2.80	0.80	59.07
Pensacola.....	1.06	6.57	1.82	1.03	2.50	6.26	7.98	4.79	2.57	3.94	2.15	5.22	45.89
Plant City.....	1.22	4.36	1.87	1.17	3.88	13.43	15.62	10.99	3.10		0.95	0.84	
Rockledge.....	0.35	1.85	1.83	0.15	1.23	10.10	3.54	9.66	3.94	10.24	0.65	0.48	44.02
Rockwell.....	3.15	3.80	0.70	0.25	2.77	10.87	6.70	9.94	2.40	3.10	2.60		
St. Andrew.....	2.60	7.55	1.79	2.14	2.93	13.37	4.71	8.66	7.57	3.71	4.57	2.60	62.20
St. Augustine.....	0.81	1.71	1.78	1.82	2.37	10.44	5.32	8.64	5.05	11.14	3.73	1.19	52.23
St. Leo.....	1.00	3.29	1.68	0.72	1.79	13.91	8.05	7.64	2.10	9.66	2.54	0.90	53.78
Satsuma Heights.....	0.48	2.28	1.29	1.01	1.70	6.07	6.93	10.66	2.5	13.31	3.29	1.50	51.10
Switzerland.....	1.41	1.26	2.02	1.27	2.12	11.34	6.26	12.00	5.71	9.18	1.73	1.52	55.82
Tallahassee.....	1.87	7.06	3.97	3.04	2.07	11.03	4.99	4.70	2.49	2.55	4.75	1.80	50.32
Tampa.....	0.81	3.00	0.58	1.27	1.76	9.15	9.73	6.39	0.79	5.17	1.94	1.05	41.64
Tarpon Springs.....	1.41	2.51	0.93	0.23	4.18	6.13	7.73	12.68	1.97	5.86	1.18	1.18	46.60
Titusville.....	0.55	2.38	2.19	0.50					2.67	7.99	1.58	0.80	
Wausau.....	2.66	5.74	3.08	5.40	0.70	8.71	14.70						
<i>Georgia.</i>													
Abbeville.....	2.16	2.98	1.60	2.75	3.67	7.00	5.77	1.24	2.42	4.36	3.35	2.31	39.61
Adairsville.....	2.82	4.00	0.89		8.17	5.00	3.39	4.89	4.74		0.51	3.68	
Albany.....	3.39	5.61	1.46	2.79	1.76	9.12	5.08	2.44	3.38	3.64	3.56	2.24	44.47
Allapaha.....	2.12	4.33	3.01	1.60	1.68	8.79	9.34	2.56	0.77	2.28	3.74	2.08	42.30
Americus.....				5.26	1.27	7.43	3.63	1.61	1.78	2.53	3.05	2.64	
Athens.....	3.75	5.42	4.18	4.20	3.81	8.26	7.24	2.41	2.24	2.28	0.23	3.22	47.26
Atlanta.....	3.49	4.13	2.03	3.15	6.39	5.20	3.25	3.49	0.73	2.90	0.57	2.79	37.12
Augusta.....	3.23	5.21	0.69	1.51	2.23	6.02	4.71	6.04	1.99	4.25	1.85	1.64	38.87
Bainbridge.....	2.23	5.14	2.60	3.31	1.98	9.47	6.25	5.08	2.87	3.38	2.88	1.36	46.64
Barnesville.....	3.82	7.22	0.95	4.73	2.58	5.68	6.17	4.27	2.68		1.63	2.51	
Blakely.....	2.64	3.65	1.17	4.45	0.76	6.71	7.61	1.05	2.57			2.32	
Butler.....	4.20	5.11	1.17	5.20	3.00	6.13	5.66	2.96	2.39	1.53	1.31	3.21	41.93
Camak.....	3.87	4.31	0.99	2.12	1.79	6.36	7.40	1.05	4.08	3.00	1.65	2.05	38.67
Canton.....	5.08	2.96	0.55	2.13	7.00	5.08	5.77	2.27	1.97	1.51	0.82	4.28	39.42
Carlton.....	4.00	5.64	2.72	2.96	2.72	9.34	5.43	2.33	1.32	3.10	0.19	3.04	42.79
Carrollton.....		5.37	1.70	3.10	3.48								
Clayton.....	4.88	5.87	2.51	3.15	11.14	7.16	6.32	3.81	3.23	3.58	1.12	4.86	57.65
Columbus.....	3.08	6.41	2.52	5.93	2.70	3.99	5.00	3.35	2.83	1.96	1.49	3.69	42.05
Covington.....	4.53	4.78	3.78	4.79	4.07	7.98	6.05	3.32	2.20	2.29	0.98	3.10	47.21
Cuthbert.....	2.92	5.19	0.89	7.03	0.77	6.22	4.89	0.94	1.37	1.87	3.02		
Dahlonega.....	4.07	4.93	1.38	4.01	11.33	7.57	5.13	7.57	1.62	3.11	0.78	5.29	56.79
Diamond.....	3.68	4.28	1.66	5.11	9.51	8.51	5.24	3.98	2.27	2.64	1.22	6.00	54.10
Douglas.....	2.52	5.45	4.83										
Dublin.....	3.38	3.94	0.94	3.08	2.84	7.56	3.58	2.58	0.54	3.08	2.20	3.20	36.92
Dudley.....	3.06	3.48	0.43	2.50	2.93	8.59	5.02	1.20	0.91	2.65	1.65	2.27	34.69
Eastman.....	2.98	4.77	1.01	2.00	4.25	6.37	4.81	0.77	1.64	4.26	3.57	2.49	38.92
Easton.....	4.76	5.73	0.96	3.64	3.08	8.59	3.99	2.90	1.21	2.73	1.66	2.74	42.08
Elberton.....	4.50	8.13	0.97	2.57	3.07	7.32	4.89	3.48	1.15	3.41	0.24	3.33	43.06
Experiment.....	4.09	6.67	0.68	3.92	2.80	4.19	4.47	2.36	1.40	2.22	1.30	2.68	36.84
Fort Gaines.....	2.71	5.15	1.27	6.29	0.25	5.90	6.99	3.94	4.19	3.05	2.54	1.94	44.23
Gainesville.....	3.57	2.73	1.02	4.39	6.05	6.99	3.05	2.27	1.65	2.52	0.53	4.83	39.62
Gillsville.....	3.18	4.76	1.03	2.61	5.47	6.24	3.67	4.92	3.15	2.79	0.20	4.04	42.06
Glenville.....	1.47	3.64	2.07	1.38	3.59	7.75	3.91	3.54	4.35	6.58	3.34	2.01	43.63
Gore.....	2.48	4.47	1.20	3.33	7.88	7.62	6.89	5.82	4.21	1.72	0.75	6.79	53.16
Greensboro.....	4.82	6.64	2.32	3.56	4.02	6.16	6.20	1.35	2.77	4.15	1.24	2.87	46.10
Griffin.....	4.21	5.27	2.10	4.04	3.85	4.18	7.68	3.77	2.71	2.27	1.30	3.07	44.45
Harrison.....	3.32	7.67	0.37	2.65	3.77	8.23	4.66	2.22	3.43	4.09	1.77	2.61	44.79
Hartwell.....	1.67	4.72	1.27	3.58	7.52	10.28	4.64	5.65	0.44	3.04	0.12		
Hawkinsville.....	1.68	2.30	0.52	2.74	3.02	7.77	3.08		3.43	2.11	2.78	2.55	
Helena.....	1.80	4.50	0.94	2.66	2.78	5.67	4.32	1.37	1.11	2.29	2.84	2.13	32.41
La Fayette.....	3.02	4.91	0.57	3.00	3.00	9.75	4.54	3.86	7.30	3.85	1.37	2.35	52.47
Lisbon.....	4.54	5.83	0.66	2.64	3.57	7.97	8.85	3.13	1.45	3.29	0.93	2.44	44.82
Lost Mountain.....	2.30	5.65	1.20	2.31	4.35	6.60	3.96	2.76	2.44	3.36	3.06		39.06
Louisville.....	3.13	5.65	0.74	1.83	2.75	7.67	8.13	2.90	4.59	4.81	2.14	2.02	46.41
Lumber City.....	2.48	3.35	2.96	1.90	2.22	9.56	6.08	1.32	1.49	4.34	3.66	2.58	41.94
Lumpkin.....	3.81	5.22	1.07	6.00	0.29	6.79	4.70	1.96	3.19	3.29	2.71	3.41	42.44
Macon.....	4.45	4.43	0.32	3.46	2.53	5.48	3.94	2.61	1.25	3.25	1.64	2.77	36.13
Marshallville.....	3.99	6.06	0.57	4.13	1.94	6.96	7.32	3.70	2.50	3.10	2.13	3.15	44.94
Maury.....	2.74	5.35	3.02	2.01	2.12	9.66	6.56	3.02		1.80	3.76		
Milledgeville.....	4.49	4.71	1.03	3.00	1.92	6.21	5.97	2.06	1.94	3.82	2.13	2.91	40.19
Millen.....	2.19	4.32	1.33	0.									

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDRETHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Georgia—Continued.</i>													
Quitman.....	2.87	4.14	3.03	1.43	1.19	15.76	8.64	3.89	0.98	3.69	2.76	1.53	49.91
Ramsey.....	2.97	4.28	1.63	4.25	8.90	6.96	7.98	4.26	1.84	1.46	1.19	4.00	49.72
Resaca.....	1.92	4.52	1.09	3.11	6.98	4.89	4.20	2.90	3.30	1.88	0.92	4.85	40.56
Rome.....	3.17	4.58	1.82	2.76	7.70	7.20	3.64	2.30	3.22	1.98	0.76	3.78	42.91
St. George.....		2.04	2.88	1.09	2.24	7.16	5.94	14.17	0.42	7.13	1.79	0.76	.....
St. Marys.....	0.76	2.64	1.83	1.18									
Savannah.....	1.03	3.13	2.16	1.47	2.04	6.93	3.46	6.81	3.64	4.65	2.74	1.56	46.61
Statesboro.....	2.06	5.52	1.38	1.37	2.04	6.93	3.46	6.81	1.30	5.93	2.45	1.72	41.10
Talbotton.....	4.76	7.37	0.79	5.48	1.68	4.64	4.48	5.94	2.54	1.29	1.93	3.24	43.74
Tallapoosa.....	1.45	2.33	1.00	2.40	5.65	6.85	5.20	3.19	2.29	3.56	1.19	4.05	39.16
Thomasville.....	3.22	5.50	3.02	1.72	2.35	12.08	4.71	4.55	2.55	5.09	5.27	2.86	52.92
Toccoa.....	3.45	2.89	3.28	2.64	8.57	6.75	6.81	6.54	2.25	1.22	0.50	4.45	49.65
Valdosta.....	2.05	3.52	2.55	0.77	0.20	11.76	6.37	4.60	2.00	2.82	2.97	1.55	41.16
Valona.....	0.68	2.28	1.92	2.53	0.70	5.76	14.05	10.52	2.83	8.96	3.20	1.01	54.44
Washington.....	4.57	5.46	1.23	2.12	2.94	6.53	7.40	4.28	2.87	5.28	1.04	3.10	46.82
Waycross.....	1.46	2.76	3.53	1.37	2.18	13.42	5.96	7.00	2.47	8.33	3.13	1.33	53.44
Waynesboro.....	3.83	4.76	1.43	1.27	4.53	7.43	3.81	6.58	4.79	3.80	2.64	1.46	46.33
West Point.....	4.23	7.51	1.66	3.42	2.16	4.43	6.16	6.21	4.07	1.62	1.34	3.14	45.95
Woodbury.....	3.41	6.46	2.60	5.55	2.32	5.09	5.65	1.90	3.82	1.80	1.51		
<i>Idaho.</i>													
Albion.....	1.75	0.42	0.02	1.46	0.81	0.24	0.56	0.33	0.76	1.15	1.64	1.01	10.15
Aimo.....	1.64	3.88	0.10	0.79	0.74	0.20	0.20						
Blackfoot Dam.....	0.96	1.14	0.48	0.67	0.78	0.10	0.21						
Blackfoot Dam.....	1.83	1.08	0.74	0.77	1.08	0.21	1.02	0.24	0.47	0.46	0.99	0.68	7.14
Bock's Ranch.....	2.09	2.64	1.78	1.10					0.84	1.58	1.40	1.05	11.84
Bogus Creek.....	2.44	3.04	1.79	2.83	2.32	0.48	0.25	0.00	0.93	2.12	5.68	2.01	23.89
Boise.....	1.55	2.00	0.83	1.10	1.14	0.30	T.	0.00	0.50	0.99	2.53	1.13	12.07
Bonnets Ferry.....	1.74	1.54	1.13	1.60	1.82	1.37	0.46	0.49	2.71	3.09	4.45	2.22	22.62
Boulder Mine.....	4.12	5.11	2.08	2.01	2.11	0.35	0.34	T.	2.27	2.59	7.53	2.71	31.22
Buhl.....	0.16	0.45	0.28	0.82	0.55	0.25	0.28	0.00					
Burke.....	5.71	7.79	4.60	4.38	4.38	0.89	0.25	0.05	1.77				
Caldwell.....	1.10	1.64	0.28	1.05	0.84	0.03	T.	0.00	0.89	0.40	2.15	0.61	8.99
Camas.....	1.11	0.91	0.03	1.44	0.49	0.01	0.93	0.00	2.37				
Cambridge.....	3.88	3.38	0.95	1.73	2.01	0.08	0.15	T.	0.36	1.20	5.67	1.39	
Cedar Creek Dam.....				1.16	1.36	0.00	0.04	0.00	0.30	0.07			
Chesterfield.....			0.65	0.72	0.59	0.03	0.44	0.72	1.17	0.83	0.81	0.67	
Coeur d'Alene.....				2.00	0.51	0.11	0.00						
Cottonwood Creek.....				2.67	0.90	0.25	1.20	0.01	1.36	0.90	1.54		
Crawford.....	2.00	3.00	0.40	2.52			0.50	T.	1.57	0.45			
Culdesac.....	1.16	3.06	0.86	2.68	4.28	T.	0.00	T.	0.94	1.87	4.95	0.45	20.25
Dent.....	3.28	5.08		2.22	4.04	0.28	0.02	0.02	0.94	3.69	5.88	2.10	
Driggs.....	1.70	1.63	0.65	0.92	1.94	0.14	0.80	0.05	0.50	2.13	1.45	1.48	13.41
Eole.....	1.32	0.18	0.32	1.40	0.93	T.	1.77	0.00	0.83	0.85	0.48	0.81	8.39
Emmett.....	1.40	1.05	0.46	1.51	0.67	0.13	0.00	0.00	1.06	0.79	3.05	0.70	
Forney.....	0.30	0.92	1.10	0.40	2.35	0.20	0.70	0.15	0.80	0.20	0.91	0.45	9.38
Garden Valley.....	4.99	4.69		2.12	1.39	0.26	0.27	T.	1.58	2.35	6.52	1.12	
Garnet.....	0.49	0.79	0.67	0.79	0.46	0.21	0.00	0.00	1.02	0.90	1.18	1.12	7.63
Geneva.....	1.75	2.87	0.46	0.61	0.37	0.00	0.73	0.53	0.84	1.05	1.73	1.14	12.08
Glenns Ferry.....	0.89	2.01	0.28	0.94	0.39	0.12	0.18	0.00	0.33	0.31	1.78	1.37	8.58
Gooding.....	0.71	1.31	0.14	0.77	0.32	0.08	0.24	0.00	0.44	0.45	1.72	1.50	7.68
Grace.....	1.89	0.78	0.67	0.57	0.26	0.01	1.11	0.36	1.36	0.89	0.65	1.07	9.90
Grand Forks.....	6.25	9.73	5.56	4.47	3.26	0.26					13.34	4.79	
Grandview.....		0.79	0.46	0.39	0.35	0.27	0.18	0.00	0.56	0.54	1.28	1.60	
Grimes Pass.....	3.96	3.50	0.54	2.21	1.61	0.13	0.54	T.	1.62	2.62	7.34	2.20	26.27
Gulley.....	0.50	0.91	0.21	0.57	0.62	0.45	0.37	0.00	0.58	0.61	1.73	0.97	7.73
Halley.....	1.38	1.34	0.43	0.81	0.80	0.06	0.27	0.00	1.33	1.18	2.28	1.32	11.20
Hotspring.....	0.44	1.09		1.30	0.82	T.	T.	0.00	0.55	0.58	1.56	1.26	
Idaho Falls.....	1.50	0.47	0.20	0.06	0.75	0.14	0.11	T.	1.30	1.15	1.09	0.40	7.17
Indian Valley.....	2.33	2.73	0.95	1.73	2.06	0.08						0.89	
Irwin.....	1.90	1.18	1.08	1.11	1.02	0.17	1.11	T.	0.37	1.37	1.39		
Kellogg.....	2.93	4.43	2.41	2.80	2.70	0.61	0.06	0.00	1.25	3.97	5.20	2.27	28.93
Kirkham.....	5.23	5.32	2.21	2.60	1.60	0.86	0.25	0.00	1.15	2.60	5.10	3.00	29.92
Koonkia.....	1.66	2.75	1.35	2.36	3.09	0.75	0.04				5.88	1.51	
Lake.....	0.50	2.80	T.	0.20									
Lakewiew.....	2.40	1.99	0.60	3.15	2.80		0.40	0.05	1.25	4.15	5.89	2.59	
Landore.....	3.98	3.50	2.65	4.18	3.17	0.15	0.21	0.18	1.64	3.55	7.42	3.52	36.94
Lewiston.....	1.11	1.27	1.56	1.36	1.57	0.61	0.10	0.03	1.48	1.03	3.51	0.75	14.71
Little Camas.....	2.21	3.23	2.11	1.43	0.96	0.09	0.22	T.	1.28	1.57	5.27	1.88	20.25
Long Gulch.....		2.76	1.16	1.60	1.35	0.48	0.20	T.	2.15	1.46	5.16	2.55	
Loon Creek.....	1.48	2.48	1.63	1.37	1.16						3.73	0.45	
Lowry.....	1.05	2.16	0.05	0.89	0.48	0.15	1.12	0.00	1.04				
McCall.....	3.20		1.22	2.03	2.68	0.31	0.10	0.00	1.13				
Mackay.....	1.40	0.40	0.09	0.45	0.31	0.13	0.35	0.00	1.40	0.78	0.58	0.15	6.04
Meadows.....	3.84	3.56	1.33	2.92	2.36	0.79	0.39	0.01	0.60	1.93	6.85	1.65	26.43
Mesa.....				1.12	1.56	0.22	0.44	T.	0.48			1.60	
Miley.....	1.80	0.62	T.	1.11	0.47	0.31	0.60	T.	0.82	0.86	2.24	1.12	9.95
Moosew.....	2.58	3.50	2.64	1.77	1.52	T.	T.	T.	0.56	2.21	4.11	1.37	21.16
Mountainhome.....	0.82	1.52	0.68	0.53	0.60	0.00	T.	0.00	1.08	1.06	2.41	1.35	10.06
Murtaugh.....	1.17	1.27	T.	1.07	0.49	0.00	0.71	T.	0.40	0.48	1.73	0.33	7.74
Nespeco.....	1.16	1.63	1.11	3.77	3.08	0.10	0.08	0.69	1.54	1.67	4.39	2.18	21.40
Oakley.....	1.50	1.40	0.00	0.15	0.94	T.	0.35	0.04	0.94	0.40	0.80	0.97	7.49
Orofino.....	2.56	5.00	3.23	2.46	3.89	0.18	0.05	0.02	1.06	3.02	6.50	2.31	30.28
Payette.....		2.60	0.25	0.45	0.35	0.00	1.10	0.95	0.89	1.03	1.17		
Payette.....	1.16	1.21	0.51	0.97	0.83	0.13	0.02	0.00	1.37	0.81	2.72	0.75	10.38
Pebble.....	2.64	3.41	0.51	1.06	0.21	0.15	0.47	0.45	0.94	1.16	1.95	1.41	14.36
Pearson.....	1.97	3.54	1.19	2.07	0.66	0.18	0.22	0.00	2.17	1.36	4.44	2.43	20.28
Pine.....	5.06	4.35	1.37								2.01	1.37	
Pleasant Valley.....	1.01	1.28	0.81	1.94	1.02	0.34	0.16	0.00	0.67	1.01	2.41	1.14	10.78
Pocatello.....	1.46	0.58	0.64	1.54	0.94								

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MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Idaho—Continued.</i>													
Roseworth.....				0.70	0.96	0.33	0.53	0.00	0.20	0.65	2.19	1.01	
Ruby Creek.....	4.08	4.89	1.79	2.48							6.95	3.86	
Rupert.....	1.07	1.14	0.10	0.59	0.17	0.01	0.46	0.00	0.78	0.40	1.38	0.76	6.86
St. Maries.....				2.48	2.12	0.27	0.17	0.01	1.51				
Salmon.....	0.80	0.50	0.47	0.41	1.07	0.42	0.62	0.05	0.88	0.41	2.38	0.55	8.56
Salmon River Dam.....	1.20	0.76	0.31	0.79	0.95	0.05	0.00	T.	1.62	0.90	1.85	1.22	10.25
Sheep Hill.....	3.88	4.32	1.55	1.39					1.42	2.27	7.49	2.69	
Shoshone.....	0.97	1.17	0.22	0.33	0.43	0.01	0.18	0.00	0.54	0.59	1.90	1.13	7.47
Silver City.....	1.68	3.59	0.97	1.90	1.02	0.67	0.71	0.00	0.85	1.53	4.18	3.47	20.57
Soldier Creek.....							0.22	0.00	1.59	0.97	4.95	1.29	
Spirit Lake.....	1.30	1.47	0.20	0.64	0.79	T.	0.30	0.00	2.44	2.80	5.49	2.46	
Springfield.....	0.52	0.89	0.12	0.50		0.00	0.17	0.00	1.04	0.12	1.51	0.62	8.35
Stone.....	2.00	2.40	0.44	0.62	1.35	0.11	0.29	0.15	1.20	0.93	1.23	1.07	11.79
Sugar.....	0.45	2.15	0.85	0.91	0.53	0.28	0.10	0.00	1.25	0.63	2.75	1.09	10.99
Sunnyside.....	3.11	2.60	0.90	1.62	1.94	0.35	T.	0.00	1.46	1.59	7.18	1.00	21.75
Tripod Mountain.....	1.35	1.61	0.16	0.73	0.52	0.06	0.12	T.	0.95	0.48	1.90	1.13	9.01
Twin Falls.....	2.15	2.54	0.56	0.85	1.73	0.05	0.04	T.	0.74	2.49	2.77	1.68	15.60
Vernon.....	6.12	7.64	5.03	3.67	3.22	0.71	0.27	T.	1.41	6.53	12.05	4.14	50.79
Wallace.....	0.82	1.74	0.15	0.91	0.59	0.05	0.34	T.	1.13	0.59	2.73	1.39	10.44
Wendell.....	1.32	1.14	0.87	0.28	0.89	0.00	0.93	0.79	1.24	0.61	0.93	1.19	10.19
Weston.....													
<i>Illinois.</i>													
Albion.....	2.55	3.84	0.18	3.48	2.69	1.36	6.00	3.53	5.30	7.27	1.03	1.79	39.02
Aledo.....	1.79	0.98	0.70	3.62	4.37	2.82	2.15	2.73	2.95	0.87	0.42	0.95	24.35
Alexander.....	1.49	0.84	0.04	2.69	5.25	3.13	2.59	3.62	5.78	1.72	1.14	0.80	29.03
Antioch.....	2.20	0.65	0.05	2.94	4.94	1.36	0.83	3.61	2.80	2.37	2.00		
Astonia.....	1.73	1.16	0.40	2.86	6.33	2.82	2.65	1.16	4.51	1.92	1.67	1.16	28.37
Aurora.....	2.35	0.82	0.36	3.96	6.20	0.56	1.95	4.04	4.47	1.20	1.44	1.11	28.11
Beardstown.....	1.54	1.76	T.	3.05	6.88	3.00	3.80						
Bement.....	1.30	1.55	0.41	3.13	7.15	1.67	6.99	2.62	3.80	1.79	1.91	2.58	34.51
Benton.....	1.30	3.12	T.	4.04	4.17	1.90	3.15	0.73	3.72				
Bloomington.....	1.84	1.03	0.61	3.84	5.31	1.70	2.91	0.70	5.39	1.23	0.64	1.29	26.49
Cairo.....	2.63	3.29	1.39	6.78	2.86	2.05	7.59	2.90	0.93	11.57	0.55	3.39	45.93
Carbondale.....		3.47	0.09	3.70	2.81	8.58	8.58	2.11	5.60	10.27	0.25	2.24	
Carlinville.....	1.92	2.20	0.15	4.89	6.52	3.73	5.89	1.37	7.48	2.57	0.44	1.66	38.82
Carlyle.....	2.60	4.57	T.	3.81	5.40	3.15	6.55	3.80	7.30	4.70	0.22	1.52	43.62
Charleston.....	2.01	2.92	0.40	2.09	3.84	2.43	7.37	3.75	3.81	4.53	3.42	1.14	37.71
Chester.....	2.12	3.71	0.04	3.02	3.35	4.91	9.04	4.46	4.03	5.72	0.28	1.56	42.24
Chicago.....	3.07	0.89	0.29	3.84	4.67	0.91	1.79	3.08	3.80	1.79	1.31	1.32	26.86
Clinton.....	1.95	1.24	0.29	2.93	5.50	1.51	3.75	2.41	3.96	2.29	1.89	1.47	28.89
Coatsburg.....	0.29	0.25	0.15	2.85	6.62	2.45	4.96	0.41	5.36	1.02	0.05	0.72	25.13
Cobden.....	2.43	3.53	0.10	6.19	3.66	4.29	10.82	1.89	2.10	11.43	0.26	2.60	49.30
Dakota.....	2.43	0.55	0.41	3.32	2.32	0.90	1.45	4.06	1.86	0.59	1.37	0.48	19.74
Danville.....							4.30	2.12	6.84	2.45	1.85	1.61	
Decatur.....	1.95	1.72	0.58	3.00	7.16	3.27	3.23	3.81	3.94	2.20	2.84	1.98	35.18
Dixon.....		0.65	0.20	3.43	4.22	0.45	0.70	3.14	4.76	0.54	0.85	0.89	
DuQuoin.....	1.43	4.16	0.08	3.23	2.99	3.41	3.68	2.59	2.41	7.17	0.31	2.01	33.47
Dwight.....	2.37	1.05	0.52	3.84	5.11	3.00	1.36	4.66	5.73	1.44	0.26	1.24	30.58
East St. Louis.....			0.17	3.61	4.28	4.14	5.00	1.72	6.49	3.24	0.25	1.24	
Edwardsville.....	3.14	2.89	0.13	3.71	5.56	4.45	5.06	2.42	7.05	4.42	0.12	1.00	39.95
Elgin.....	2.37	3.80	T.	5.30	2.70	2.84	3.14	2.57	2.97	1.21	1.15	0.83	
Equality.....	2.40	3.87	0.08	3.20	3.77	1.14	5.20	1.54	6.35	7.45	0.96	1.91	37.87
Fairfield.....		3.66	0.24	3.93	3.17	3.23	5.03	1.60	5.03	7.17	0.78	1.27	
Flora.....	1.75	1.26	0.33	2.52	5.55	1.53	2.24	0.80	4.11	1.17	0.32	0.89	22.47
Galva.....	3.08	3.99	0.30	6.40	3.58	3.67	10.75	3.58	1.69	15.46	1.50	3.52	57.52
Gaiconda.....	3.48	3.88	0.42	2.92	5.26	3.34	6.60	3.08	7.27	4.29	0.68	1.70	42.92
Grafton.....	1.93	2.65	0.07	2.55	3.76	4.17	8.01	3.35	6.47	5.05	0.32	0.94	39.27
Greenville.....	1.07	0.76	T.	2.72	6.86	2.74	4.45	0.85	4.57	1.65	1.36	0.78	27.81
Griggsville.....	2.24	2.39	0.04	4.45	4.50	2.76	6.04	4.90	5.70				
Halfway.....	1.83	1.15	0.26	3.82	7.34	2.24	3.35	0.58	6.60	1.51	1.19	0.98	30.90
Havana.....	2.24	1.11	0.12	3.28	6.00	0.86	1.27	1.77	3.53	1.48	0.54	1.23	23.55
Henry.....	2.26	2.76	T.	5.19	6.03	3.57	4.20	5.19	6.14	5.00	1.05	1.45	42.84
Hillsboro.....	2.99	1.86	0.46	2.46	5.38	1.73	4.66	2.23	5.12				
Hoopeston.....	2.52	1.21	0.24	3.81	4.90	0.81	1.46	3.17	2.75	1.68	0.62	1.12	24.29
Joliet.....	1.54	0.52	0.27	3.84	4.25	0.63	2.04	3.56	2.66	0.84	1.14	0.57	21.88
Kishwaukee.....	2.35	0.83	0.05	3.47	5.13	1.06			4.39	1.44	1.73	1.28	
La Grange.....	0.62	0.60	0.34	2.37	6.88	1.99	3.61	0.38	2.74	0.75	0.11	0.82	21.21
La Harpe.....	1.39	0.40	0.28	3.01	3.31	0.71	1.34	3.26	2.37	0.66	0.71	0.40	17.84
Lanark.....	1.93	1.17	0.19	3.78	6.02	0.89	0.79	3.74	5.09	1.03	0.77	1.11	26.51
La Salle.....	2.71	1.08	0.47	3.56	5.97	1.33	2.99	0.79	4.41	1.40	1.12	1.18	27.01
Leam.....	1.75	0.85	T.	2.80	5.55	2.34	3.13	0.70	5.35	1.94	1.65	0.75	26.81
McLeansboro.....	3.09	3.09	T.	2.45	2.96	3.13	3.57	2.57	5.08	7.84	0.56	2.06	36.35
Martinsville.....	1.33	2.20	0.40	2.42	4.63	2.15	7.74	2.89	2.80	6.10	3.10	1.15	36.41
Martinton.....	2.55	1.07	0.45	2.27	4.47	1.35	4.36	5.80	4.50	2.87	0.26	1.16	31.01
Mascoutah.....	2.33	3.66	0.02	4.62	5.22	6.42	5.90	5.06	7.94	4.84	0.17	1.31	47.33
Minonk.....	1.45	1.06	0.03	3.63	4.52	4.07	1.31	2.46	3.91	0.93	0.33	1.16	31.19
Monmouth.....	1.92	1.51	0.73	2.91	4.66	1.97	2.62	0.37	2.80	0.86	0.48	1.13	21.96
Morrison.....	1.82	0.76	0.44	4.09	3.15	0.40	1.08	2.44	3.80	0.64	0.91	0.80	20.39
Morrisville.....	1.77	1.42	0.04	3.43	8.65	3.77	5.05	2.19	4.78	2.44	1.66	1.49	36.69
Mount Carmel.....	3.44	4.04	0.28	3.68	3.08	1.72	6.83	3.14	9.16	8.42	1.74	2.34	47.87
Mount Vernon.....	2.27	5.71	0.02	3.43	2.61	1.75	5.97	2.07	9.21	6.65	1.83	1.70	43.22
New Burnside.....	3.06	3.05	0.00	4.80	2.96	2.95	7.36	1.81	1.70	12.48	0.23	2.93	43.35
Olney.....	2.97	3.57	0.27	3.79	5.18	3.07	4.30	2.10	6.72	6.55	2.32	1.78	42.62
Oregon.....	1.72	0.80	T.	3.74	4.65	0.20	0.85	2.64	2.20	0.72	1.21	1.40	20.13
Ottawa.....	2.78	0.98	0.42	3.28	5.28	1.25	0.67	3.81	6.23	1.25	0.74	0.98	27.77
Palestine.....	2.71	3.67	0.19	2.53	3.27	2.37	11.11	0.59	4.51	6.94	2.45	2.19	42.23
Pana.....	1.9												

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Illinois—Continued.</i>													
Rushville.....	1.51	0.71	0.12	2.82	6.11	0.61	2.86	2.04	4.21	1.19	0.59	1.16	24.03
St. Charles.....	2.25	0.90	0.35	3.81	6.43	0.74	1.77	2.99	2.88	1.19	1.41	1.01	25.73
St. Peter.....	2.22	3.65	0.15	1.87	3.86	2.16	5.58	1.90	5.27	4.11	0.45	1.30	32.52
Sparta.....	2.45	3.27	0.03	3.23	5.46	2.90	5.16	4.06	4.47	4.62	1.19	1.58	38.42
Springfield.....	1.68	0.94	0.18	2.82	4.59	4.58	2.63	0.78	5.34	1.74	1.57	0.86	27.51
Streator.....	2.45	1.03	0.41	4.20	5.13	2.98	0.81	5.38	4.59	1.43	0.43	1.31	30.65
Sullivan.....	2.11	2.03	0.34	3.18	6.75	2.01	4.90	4.05	7.94	2.09	0.48	1.39	40.27
Summer.....	1.60	3.20	0.23	3.53	3.80	3.53	9.61	1.65	10.83	7.80	1.77	1.90	49.45
Sycamore.....	1.25	0.77	0.23	3.78	4.81	0.78	1.50	4.22	1.80	2.04	1.10	0.63	22.91
Tiskilwa.....	2.57	1.17	0.31	2.66	7.10	1.52	0.91	1.67	2.51				
Tuscola.....	2.68	2.48	0.40	3.11	5.88	1.76	6.59	1.42	4.75	3.28	1.61	1.51	35.47
Urbana.....	2.23	1.79	0.38	1.57	5.35	2.99	2.76	2.62	4.14	1.34	1.20	1.59	27.96
Wainut.....	1.86	1.07	0.30	2.42	4.84	0.69	1.34	4.12	4.81	0.91	0.60	1.16	24.12
Warsaw.....	0.51	0.97	0.43	2.52	7.81	1.79	3.51	0.63	2.59	0.95	0.27	0.81	23.29
White Hall.....	1.90	1.70	0.05	3.34	7.18	1.80	4.26	1.12	7.29	1.89	0.69	0.83	32.05
Windsor.....	1.73	2.84	0.43	2.83	6.32	2.73	5.68	3.55	4.33	2.61	4.65	1.82	39.52
Winnebago.....	2.41	0.99	0.36	4.66	4.73	1.04	2.32	3.70	2.01	0.78	1.80	0.91	25.98
Yorkville.....	1.49	0.46	0.07	4.16	4.49	1.62	1.59	3.99	5.88	1.32	0.80	0.80	25.93
Zion.....	2.02	0.80	0.33	2.67	3.84	0.82	1.04	4.60	2.56	0.78	0.75	1.30	21.51
<i>Indiana.</i>													
Anderson.....	3.42	2.89	T.	2.83	4.31	2.07	3.20	0.90	6.11	5.21	2.10	1.54	34.68
Auburn.....	2.53	1.51	0.13	3.03	2.05	0.42	4.33	4.11	3.30	1.30	1.97	2.15	26.83
Berne.....	3.18	2.31	0.02	2.95	4.23	1.10	1.87	2.25	5.63	3.68	3.09	2.11	32.42
Bloomington.....	3.95	4.37	0.04	3.81	3.64	1.80	9.11	1.91	3.02	9.31	2.11	2.50	45.57
Bluffton.....	2.92	2.15	T.	2.63	3.28	0.96	2.07	1.35	4.53	2.37	3.01	2.23	27.50
Butlerville.....	4.62	4.40	0.29	2.54	5.72	3.07	9.77	1.86	2.86	9.28	1.79	2.56	48.76
Cambridge City.....	3.23	3.49	0.24	3.75	6.15	1.48	3.73	0.42	7.29	5.81	4.41	2.59	39.59
Collegeville.....	2.85	2.45	0.98	2.98	6.40	0.96	4.95	5.40	5.03	2.35	1.19	1.75	37.29
Columbus.....	4.01	4.02	0.35	2.68	3.45	1.25	8.00	1.14	3.54	8.91	2.17	2.00	41.52
Connersville.....	4.03	3.02	T.	3.02	4.22	1.71	4.74	1.11	4.31	7.44	1.46	1.71	36.77
Delphi.....	2.74	2.27	0.33	2.96	3.90	1.76	3.73	2.29	4.76	1.88	1.74	2.18	30.44
Elkhart.....	1.57	1.46	0.42	3.40	4.56	1.32	2.94	3.01	5.69	2.49	3.18	2.25	32.23
Eminence.....	2.19	4.20	T.	2.67	3.44	2.31	6.64	1.65	3.79	5.51	2.10	1.47	35.97
Evansville.....	2.59	2.99	0.01	4.29	2.63	3.12	10.32	0.96	3.39	11.19	1.13	2.94	45.16
Farmersburg.....	1.40	3.57	0.00	1.60			2.85	8.49	1.05	3.27	5.43	1.17	0.58
Farmland.....	3.58	3.23	0.02	3.66	2.73	1.87	2.60	0.97	9.39	6.44	2.30	2.08	37.87
Fort Wayne.....	2.43	1.37	0.02	3.11	2.90	0.28	1.65	3.98	5.12	1.71	2.32	1.78	28.67
Greenfield.....	2.95	3.34	T.	2.88	4.32	2.16	6.46	1.00	5.51	7.08	1.81	1.79	39.30
Greensburg.....	4.49	4.34	0.23	2.35	3.97	1.86	5.89	0.97	3.77	7.30	1.53	1.68	38.38
Hammond.....	2.03	1.39	0.11	3.02	5.42	1.37	2.29	3.12	2.19	1.01	1.50	1.51	24.96
Howe.....	2.30	1.55	0.73	3.61	3.35	1.81	4.49	1.93	2.76	1.68	2.10	1.05	27.36
Huntingburg.....	2.88	3.01	0.01	4.43	3.24	1.99	10.05	2.83	5.68	10.30	1.36	2.49	48.27
Huntington.....	2.42	2.00	0.15	3.20	2.52	0.89	2.78	4.26	5.96	1.81	2.07	2.18	29.94
Indianapolis.....	2.62	4.90	0.07	2.92	3.96	3.25	7.52	2.75	3.24	5.32	1.90	1.73	39.28
Jeffersonville.....	3.16	5.88	0.10	4.92	4.25	3.82	10.13	1.43	2.43	6.77	2.94	3.19	49.00
Judyville.....	0.88	1.35	0.31	2.74	5.22	1.88	2.66	2.37	4.76	2.43	1.23	1.32	27.15
Knox.....	3.07	1.61	0.51	4.73	5.07	0.56	3.00	6.19	4.17	2.78	1.32	1.40	34.41
Kokomo.....	2.97	2.80	T.	3.48	2.31	1.62	1.98	2.51	4.29	2.70	1.96	1.38	28.00
Lafayette.....	2.33	2.07	0.43	2.75	4.24	2.62	4.21	2.50	4.79	2.58	1.38	1.82	31.72
Laporte.....	1.84	2.02	0.49	3.48	6.31		0.88	3.53	3.63	2.54	1.50	2.09	
Logansport.....	3.58	2.15	0.34	3.75	2.90	1.16	3.56	2.65	6.17	2.27	1.75	2.16	32.44
Madison.....	3.65	5.28	0.54	3.34	4.27	2.70	8.41	1.06	1.59	8.38	2.38	2.87	44.45
Marengo.....	3.85	4.82	0.30		6.80	3.97	11.75	0.54	4.03	5.98	2.94	3.09	
Marion.....	3.95	3.05	0.05	4.28	2.58	0.93	4.20	1.84	5.06	2.62	2.77	2.23	33.66
Marie.....	1.85	2.70	0.30	2.90	2.40	1.10	2.50	3.70	5.20	4.00	2.00	2.10	30.75
Mauri.....	3.41	4.00	0.04	3.30	4.03	2.32	5.44	4.13	4.80	7.41	4.42	1.92	42.31
Moore Hill.....	3.36	4.04	0.80	2.35	4.87	1.43	5.07	1.42	2.56	8.73	1.96	2.16	38.75
Mount Vernon.....	1.70	3.80	0.16	4.88	2.63	4.87	8.28	1.64	4.28	10.50	0.66	2.36	45.76
Paoli.....	2.96	2.74	0.95	4.38	4.63	2.23	8.67	0.67	4.70	8.48	2.04	2.41	44.56
Plymouth.....	1.66	1.64	0.33	4.22	4.54	0.76	2.30	3.68	4.45	3.12	1.21	1.90	29.90
Princeton.....	1.84	2.20	0.30	2.90	3.15	2.20	8.34	1.61	7.13	6.88	1.65	2.10	40.30
Richmond.....	3.04	3.72	0.06	3.06	4.79	1.42	4.13	0.81	5.50	6.72	1.23	1.79	36.28
Rochester.....	2.67	1.26	0.27	3.68	2.98	0.42	1.43	3.51	6.46	2.71	1.39	2.08	28.86
Rockville.....	1.95	2.16	0.01	3.17	3.99	2.06	11.01	2.29	6.03	3.95	2.99	1.11	40.72
Rome.....	4.37	5.43	0.14	6.07	4.02	4.17	15.91	2.47	4.15	8.52	2.23	3.23	60.73
Salsomnia.....	3.44	2.32	0.18	2.86	3.61	2.46	3.33	1.90	4.92	5.02	2.35	1.33	34.13
Salem.....	4.00	4.17	0.19	5.62	5.41	3.97	7.18	1.03	3.12	9.05	0.54	2.43	47.71
Scottsburg.....	3.39	4.88	0.15	4.22	5.49	2.84	8.57	2.54	8.28	8.56	1.94	2.50	48.36
Seymour.....	3.09	3.65	0.17	3.62	3.94	2.90	6.58	2.27	3.32	6.91	1.79	2.17	40.41
Shelbyville.....	3.78	3.93	0.07	3.37			10.35	2.00	4.00	6.88	1.65	1.61	
South Bend.....	2.91	1.89	0.43	2.97	4.23	1.42	1.53	2.82	6.31	4.66	2.25	2.59	33.11
Terre Haute.....	2.58	2.88	0.07	3.10	4.14	1.60	6.30	2.26	2.75	5.39	3.24	2.21	36.52
Veedsburg.....	2.41	2.92	0.50	2.88	5.65	1.90	2.74	3.08	5.30	2.41	1.64	1.57	33.80
Vevay.....	3.85	4.20	0.40	2.25	2.55	2.65	5.85	0.50	3.40	6.24	1.20	2.50	35.59
Vincennes.....	3.50	3.51	0.15	4.41	3.76	4.50	5.93	1.05	9.25	8.90	2.10	2.40	49.38
Washington.....	2.68	3.42	0.13	4.60	4.06	1.49	10.64	1.60					
Whitestown.....	2.59	2.91	0.11	3.53	3.43	2.22	4.61						
Whiting.....	2.09	0.70	0.22	3.10	5.36	0.45	2.39		4.06	1.10	0.82	1.11	24.61
Winona Lake.....	2.09	2.11	0.17	3.90	3.86	0.77	1.72	2.48	5.61	1.85	2.22	2.12	26.90
Worthington.....	3.68	3.78	0.02	3.29	3.04	3.01	10.88	1.40	2.63	7.41	1.98	2.00	42.52
<i>Iowa.</i>													
Afton.....	1.40	0.70	T.	1.18	4.61	4.29	0.96	2.45	7.43	1.13	0.83	0.22	24.98
Albia.....	1.48	0.48	0.35	2.92	3.99	1.72	1.57	0.55	3.02	0.50	0.52	0.30	18.20
Algona.....	1.33	0.17	0.14	0.29	2.00	3.56	0.77	2.60	2.83	1.18	0.29	0.27	15.43
Allerton.....	1.71	0.46	0.16	2.26	6.00	1.91	2.4						

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Iowa—Continued.</i>													
Belle Plaine.....	2.45	0.80	0.46	1.69	3.02	1.68	0.86	3.26	3.47	0.34	0.67	0.07	18.77
Belmond.....	1.51	0.22	0.23	1.04	3.52	3.05	3.13	3.58	2.14	1.25	0.33	0.38	20.38
Bloomfield.....	1.29	0.94	0.45	2.69	4.09			3.72	3.01				
Bonaparte.....	1.84	0.74	0.67	3.09	4.52	1.33	2.89	1.76	2.34	0.65	0.53	0.78	21.14
Boone.....	1.79	0.39	0.32	0.84	1.82	3.21	1.86	2.97	4.95	0.88	0.38	0.21	19.62
Britt.....	0.77	0.10	0.13	0.91	2.13	4.02	1.90	2.40	1.37	1.29	0.15	0.25	15.12
Buckingham.....	0.86	0.27	T.	1.75	2.17	2.25	0.76	4.33	3.80	0.96	0.40	0.39	18.00
Burlington.....	1.61	2.09	0.91	4.86	4.73	3.67	4.15	0.43	2.77	1.01	0.97	1.39	27.99
Carroll.....	0.75	0.20	0.04	0.20	2.86	3.61	1.14	7.92	4.74	3.65	T.	0.10	22.21
Cedar Rapids.....	1.35	0.38	T.	2.51	2.51	0.63	0.44	6.10	3.21	0.79	0.49	0.33	18.74
Centerville.....		0.58	0.15	3.96	5.87	0.21	2.74	1.69	2.45	0.15	0.25	0.07	
Chariton.....	0.70	0.67	T.	0.42	5.07	1.53	1.59	6.37	3.02	T.	T.	0.40	13.77
Charles City.....	1.75	0.61	0.18	0.87	2.67	0.61	0.43	5.84	1.74	0.36	0.29	0.53	15.86
Clarinda.....	1.73	0.27	0.00	1.94	6.20	1.98	2.17	2.03	4.11	1.55	0.36	0.37	22.71
Clear Lake.....	0.65	0.10	0.10	0.20	3.22	1.01	1.22	3.23	1.63	0.20	0.20	0.35	12.11
Clinton.....	2.51	0.67	0.35	3.55	3.19	0.55	1.68	2.41	5.46	0.73	0.58	1.24	22.92
Columbus Junction.....	1.70	0.67	0.30	3.04	5.28	2.87	3.05	4.82	3.09	0.76	0.43	0.56	26.55
Corning.....	1.30	0.50	T.	0.21	4.90	1.65	1.98	4.87	3.71	1.71	0.39	0.30	21.52
Corydon.....	1.69	0.41	0.34	2.53	4.73	1.34	1.89	0.45	2.76	0.14	0.31	0.19	16.78
Council Bluffs.....													
Creston.....	1.40	0.60	0.04	0.79	4.82	1.36	1.55	5.15	6.23	1.42	0.61	0.20	24.17
Cumberland.....		0.60	T.	0.20	2.73	0.39	2.50	7.10	5.00	1.56	1.03	0.20	
Davenport.....	1.69	0.59	0.39	3.69	3.42	0.91	2.86	4.31	2.40	0.61	0.22	0.85	21.94
Decorah.....	1.85	0.91	0.05	2.56	3.82	0.05	0.73	4.08	2.72	0.85	0.26	0.63	18.51
Delaware.....	1.06	0.41	0.21	2.96	5.30	1.25	0.05	2.10	3.79	1.15	0.65	0.45	19.98
Denison.....	0.87	0.32	T.	0.21	2.42	2.75	1.92	9.75	3.37	1.34	T.	0.15	23.10
Des Moines.....	1.72	0.20	0.33	1.13	3.26	3.11	0.86	2.40	3.82	0.68	0.53	0.20	18.24
De Soto.....	2.17	0.40	T.	1.62	2.96	1.20	0.63	3.40	3.96	0.89	0.56		
Dubuque.....	2.45	0.50	0.14	3.40	3.42	2.43	0.47	3.86	3.10	0.89	0.53	0.57	21.86
Earlham.....	2.09	0.40		2.23	3.93	1.11	1.11	4.08	5.02	1.00	0.52	0.20	21.69
Elkader.....	1.60	0.52	0.92	3.16	3.93	2.01	0.41	3.47	5.14	0.87	0.66	0.49	22.28
Elliott.....	0.63	0.55	T.	0.32	5.60	0.76	1.42	8.70	2.81	0.83	0.42	0.40	22.44
Elma.....	0.73	0.55	0.02	1.61	3.33	0.33	0.33	4.40	1.18	0.42	0.22	0.33	13.65
Estherville.....	1.17	0.24	0.67	0.95	1.52	5.51	2.00	1.60	4.23	0.67	0.10	0.10	18.16
Fairfield.....	2.02	0.66	0.53	3.18	3.75	0.75	3.08	3.47	1.73	0.63	0.48	0.35	20.83
Fayette.....	2.13	0.99	0.10	3.03	2.81	1.27	1.04	4.38	4.81	0.87	0.28	0.71	22.42
Forest City.....	2.40	0.30	0.24	0.15	2.14	2.48	1.80	2.75	2.28	1.28	T.	0.45	16.27
Fort Dodge.....	1.80	0.20		0.35	2.48	4.38	2.82	5.21	3.82	1.73	0.16	0.25	
Fort Madison.....	2.06	1.14	0.75	3.19	6.32	2.31	2.72	2.65	2.39	0.87	0.70	1.04	26.14
Gilman.....		0.10			4.13	4.01	0.95	1.94	5.41	0.96			
Grand Meadow.....	1.85	0.99	0.01	2.91	3.94	2.56	0.78	3.03	4.81	0.96	0.35		
Greene.....	1.02	0.47	0.22	0.84	3.03	1.08	0.88	5.78	5.02	0.58	0.17	0.38	16.35
Greenfield.....	1.44	0.44	T.	1.93	4.12	3.37	1.30	5.90	5.08	1.41	0.70	0.10	25.79
Grinnell.....	1.66	0.15	0.80	2.75	3.89	1.29	1.92	2.05	4.50	0.42	0.98	0.24	20.65
Grundy Center.....	2.10	0.30	0.02	1.85	2.83	3.02	0.92	4.92	3.77	0.41	0.07	0.56	23.77
Guthrie Center.....	2.08	0.42	0.01	0.81	3.37	2.55	0.85	6.11	5.65	1.35	0.35	0.13	23.68
Hampton.....	1.85	0.56	0.36	0.93	1.97	1.83	0.95	5.40	2.36	0.78	0.31	0.41	17.71
Hancock.....	1.40	0.21	0.00	0.10	3.72	0.40							
Harlan.....	1.00	0.29	T.	0.17	3.14	0.81	1.25	9.58	3.23	0.99	0.17	0.33	20.96
Hopeville.....	1.66	0.39	T.	1.14	4.99	1.76	1.70	1.57	5.67	0.37	0.58	0.15	19.98
Humboldt.....	2.65	0.30	0.08	0.38	2.64	3.92	1.82	3.86	4.08	1.38	0.29	0.26	21.66
Independence.....	2.25	0.12	0.00	1.47	2.03	1.49	0.51	2.36	3.19	0.65	0.05	0.80	15.02
Indianola.....	2.35	0.65	0.52	0.56	3.57	1.56	0.70	2.28	4.42	0.42	0.47	0.95	17.66
Inwood.....	1.06	0.12	0.06	1.43	1.43	1.33	3.53	4.46	3.56	1.46	0.99	0.12	15.32
Iowa City.....	1.79	0.39	0.28	2.56	3.57	6.98	2.22	4.98	6.87	0.57	0.69	0.46	22.36
Iowa Falls.....	1.77	0.70	T.	1.72	1.81	2.84	2.19	6.01	3.58	0.61	0.31	0.66	22.20
Jefferson.....		0.40	T.	0.37						1.53	0.05	0.22	
Keokuk.....	1.61	0.99	0.53	2.91	6.87	1.34	2.74	0.92	2.08	0.81	0.23	0.79	21.82
Keosauqua.....	1.93	0.57	1.23	3.25	4.81	0.90	5.69	3.50	2.43	0.59	0.60	0.70	26.20
Knoxville.....	1.90	0.65	0.50	0.85	3.06	3.71	1.62	2.73	5.37	0.28	0.63	0.40	21.70
Lacona.....	3.36	0.70	0.60	1.95	3.68	2.06	0.96	2.10	4.97	0.97	0.51	0.49	22.65
Lamoni.....	1.20	0.29	0.03	2.15	6.91	2.63	3.49	1.43	4.77	0.27	0.31	0.18	23.66
Larrabee.....	1.21		0.02	1.12	2.45	2.53	3.47	3.00	2.75	0.79	0.19	0.12	
Le Claire.....	1.89	0.78		2.51	4.11	0.65	1.96	3.62	3.63	0.88	0.48	0.93	21.71
Le Mars.....	0.73	0.13	0.06	0.98	2.70	1.76	5.18	3.63	2.07	0.78	0.16	0.91	18.19
Lenox.....	0.88	0.39	0.05	0.66	4.47	0.82	1.70	2.92	4.04	1.35	0.13	0.15	17.47
Leon.....	2.92	0.80	T.	1.33	6.88	1.75	3.27	1.38	4.25	0.15	0.10	0.16	22.79
Little Sioux.....	1.20	0.30	0.00	0.59	2.12	0.54	1.62	6.99	3.38	1.01	0.32	0.42	18.49
Logan.....	0.67	0.21	T.	0.25	2.93	0.80	2.78	6.03	4.06	1.02	0.06	0.25	19.03
Marshalltown.....	1.92	0.33	0.34	1.89	3.31	2.57	1.05	3.38	3.51	0.37	0.70	0.43	19.80
Mason City.....	1.35	0.23	0.26	0.31	2.32	1.20	0.71	4.84	2.61	0.97	0.25	0.22	15.27
Massena.....	0.93	0.70	T.	1.19	6.79								
Merrill.....					2.26		5.50						
Mt. Ayr.....	1.39	0.62	0.05	1.42	6.75	3.32	3.46	2.52	6.74	0.59	0.47	0.44	27.77
Mt. Pleasant.....	1.53	1.17	0.73	3.03	4.25	1.16	3.49	2.67	3.78	0.81	0.59	1.06	24.27
Muscataine.....	1.73	0.74	0.36	2.40	4.39	2.62	3.04	3.17	2.90	0.66	0.42	0.96	23.29
New Hampton.....	2.10	0.75	0.15	1.64	2.91	0.87	0.12	4.81	2.18	0.54	0.22	0.40	16.69
Newton.....	1.17	0.30	0.27	1.12		3.17				0.44	0.36	0.22	
Northwood.....	2.20	0.49	0.08	0.98	2.66	0.87	1.78	3.75	5.19	0.86	0.33	0.75	19.94
Odebolt.....	0.96	0.32	0.00	0.34	2.68	3.22	1.72	4.67	4.57	0.61	0.08	0.21	19.38
Oiln.....					3.36	1.46	0.63	4.67	4.61	0.98		0.38	
Onawa.....	0.92	0.40	T.	1.15	2.68	1.70	2.98	6.79	3.37	1.08	0.21	0.50	21.78
Osage.....	1.95	0.35	T.	0.35	3.49	0.68	0.56	5.05	3.27	0.65	0.29	0.50	17.14
Oskalosa.....	2.32	0.56	0.28	2.49	3.55	1.99	3.03	1.42	4.47	0.31	0.43	0.20	21.02
Ottumwa.....	1.92	0.26	0.87	2.52	2.57	1.01	3.21	3.65	1.67	0.19	0.18	0.47	18.52
Pacific Junction.....	1.40	0.43	T.	0.11	5.06	0.88							

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Iowa—Continued.</i>													
Sibley.....	1.05	T.	0.04	1.26	1.83	2.20	3.10	2.07	3.38	0.87	0.13	0.10	16.03
Sigourney.....	1.44	0.50	0.50	3.30	2.98	1.55	2.11	1.40	4.60	0.29	0.52	0.27	19.46
Sioux Center.....	1.55	0.20	0.02	0.85	1.53	1.74	4.06	2.83	1.71	0.92	0.07	0.07	15.55
Sioux City.....	0.69	0.22	0.03	0.82	1.99	1.41	3.69	2.76	3.93	0.84	0.15	0.32	16.86
Stockport.....	1.56	0.60	1.06	3.05	4.03	1.04	3.20	2.43	2.58	0.65	0.54	0.82	21.56
Storm Lake.....	0.86	0.11	0.05	0.55	2.77	2.00	2.61	2.66	1.56	0.44	T.	0.20	.....
Stuart.....	0.93	0.26	T.	1.41	1.41	1.85	4.41	5.85	1.07	T.	T.	.....	.....
Thurman.....	0.91	0.12	T.	0.13	4.65	1.32	1.08	7.37	2.91	0.92	0.38	0.40	20.19
Tipton.....	2.07	0.39	0.17	2.51	3.85	0.46	0.95	5.44	5.00	0.80	0.77	0.78	23.69
Toledo.....	1.40	0.45	0.20	2.12	3.59	2.43	1.20	2.82	6.90	0.39	0.50	0.50	22.50
Wapello.....	1.39	0.59	0.44	2.07	3.41	2.91	3.47	3.33	2.37	0.78	0.38	0.52	21.66
Washington.....	1.73	0.46	0.62	3.11	3.57	1.40	2.24	8.49	3.66	0.54	0.41	.....	.....
Washita.....	0.55	0.25	T.	0.55	2.68	2.39	2.27	4.36	4.09	0.90	0.15	0.10	18.29
Waterloo.....	1.49	0.50	0.09	2.17	2.05	1.84	0.84	4.11	2.98	0.37	0.44	0.47	17.35
Waukeo.....	1.42	0.34	0.37	1.31	3.08	1.46	0.81	2.78	4.37	0.89	0.55	0.27	17.65
Waverly.....	1.62	0.78	0.14	2.00	1.97	1.67	0.82	4.51	3.28	0.38	0.13	0.34	17.64
Webster City.....	1.50	0.50	T.	0.10	1.83	4.95	1.81	3.69	3.34	0.97	0.17	0.20	19.06
West Bend.....	1.25	0.10	0.14	0.45	1.59	3.25	1.32	2.61	1.68	0.88	0.19	0.36	13.72
Whitson.....	1.30	0.60	T.	1.32	2.19	2.43	1.86	3.39	3.20	0.43	T.	0.10	16.82
Winterset.....	1.72	0.40	T.	0.79	4.68	1.33	0.72	3.24	5.33	1.04	0.26	0.20	19.71
Woodburn.....	1.96	1.00	T.	0.57	5.29	1.94	1.07	1.32	4.53	0.56	0.69	0.20	19.13
Zearing.....	2.90	0.90	0.00	0.47	.....	.....	.....	.....	.....	.....	.....	.....	.....
<i>Kansas.</i>													
Ablene.....	1.29	0.18	T.	0.94	6.92	2.44	1.88	5.54	4.24	0.12	0.16	0.34	24.05
Agricultural College.....	1.48	0.30	0.01	0.51	8.71	1.84	5.82	10.70	2.79	0.90	0.20	0.56	33.81
Alden.....	.....	.....	.....	.....	.....	.....	.....	5.52	0.47	0.22	0.00	0.36	.....
Alton.....	0.67	T.	T.	0.55	3.30	1.50	2.93	2.14	2.10	0.47	0.06	0.35	14.07
Anthony.....	0.80	0.99	T.	1.08	4.29	0.70	1.52	2.76	0.14	0.06	T.	0.20	12.54
Ashland.....	0.66	0.60	0.04	2.87	2.09	1.42	2.65	4.99	0.21	0.25	0.06	0.28	15.12
Atchison.....	2.15	0.85	T.	1.31	8.10	3.15	1.85	3.21	7.19	0.50	0.30	1.23	29.94
Baker.....	.....	0.40	T.	0.94	5.76	5.09	1.65	3.29	6.90	0.48	0.00	0.40	.....
Beloit.....	0.37	T.	0.00	0.68	6.64	2.78	1.82	.....	.....	.....	.....	.....	.....
Blakeman.....	0.25	0.22	0.04	1.01	2.97	0.70	1.03	4.00	1.11	0.04	T.	0.03	11.40
Blue Rapids.....	1.02	0.06	0.00	0.71	6.79	3.80	2.65	.....	.....	.....	.....	.....	.....
Burlington.....	1.18	0.68	0.31	1.90	7.72	2.44	1.93	5.16	6.11	0.54	T.	1.34	26.86
Centralia.....	1.54	0.13	T.	0.32	7.85	5.36	2.74	6.99	.....	.....	0.18	0.55	.....
Chanute.....	1.64	1.63	0.55	1.87	10.74	2.93	1.51	3.91	6.16	1.46	T.	1.13	33.55
Chapman.....	0.73	0.25	0.00	0.76	8.57	0.78	2.03	8.02	3.14	0.27	0.15	0.53	25.21
Cimarron.....	0.40	0.30	T.	1.07	1.43	1.42	2.27	5.60	0.01	1.25	0.10	0.15	14.00
Clay Center.....	0.90	T.	0.00	0.65	10.87	3.15	2.40	8.48	3.23	0.36	0.21	T.	30.90
Colby.....	0.18	0.17	0.13	0.62	2.26	0.71	0.25	1.25	0.96	0.03	T.	0.06	6.62
Coldwater.....	0.80	0.23	T.	1.78	1.04	1.44	2.41	1.67	0.65	1.31	0.02	0.32	11.67
Columbus.....	2.33	1.67	0.85	4.03	6.77	2.41	2.55	3.75	4.19	2.70	0.04	0.63	31.92
Concordia.....	0.59	0.02	T.	0.59	8.56	1.60	1.54	7.57	1.59	0.37	0.15	0.16	22.74
Coolidge.....	0.20	0.27	0.00	1.81	2.24	1.25	1.58	3.40	0.25	0.00	0.22	0.00	11.22
Cottonwood Falls.....	1.49	0.40	0.02	1.59	5.65	2.09	2.25	5.18	4.76	1.14	0.05	0.18	25.80
Council Grove.....	1.70	0.90	T.	1.45	6.15	0.98	1.85	.....	5.50	0.50	0.25	0.54	.....
Cunningham.....	1.23	0.22	T.	1.55	3.51	0.35	1.23	2.00	1.18	0.30	0.02	0.32	11.91
Densmore.....	0.38	0.13	0.00	0.46	2.76	0.91	1.46	2.17	5.07	0.52	T.	0.25	14.09
Dodge City.....	0.28	0.31	0.01	0.93	1.17	2.27	1.86	2.63	0.26	0.34	0.02	0.06	10.12
Dresden.....	0.52	0.18	T.	0.22	3.77	0.09	1.29	3.60	2.29	0.36	0.02	0.78	13.12
Eldorado.....	1.17	0.95	0.08	1.70	6.36	3.46	1.83	4.08	3.14	0.33	T.	0.86	23.96
Ellinwood.....	0.86	0.19	T.	1.11	2.03	0.66	2.35	6.08	1.16	0.15	T.	0.14	14.73
Ellsworth.....	0.96	0.34	0.08	1.14	3.65	1.05	1.55	4.68	2.37	0.33	T.	0.12	16.27
Emporia.....	1.76	0.42	T.	1.31	9.62	1.36	2.08	7.16	4.31	0.90	0.10	0.96	29.98
Enterprise.....	1.70	0.13	0.00	1.00	7.34	2.73	2.49	7.96	3.55	0.14	0.13	0.28	27.45
Esbridge.....	2.26	1.09	T.	1.08	6.94	2.35	2.53	6.22	4.44	1.72	0.24	0.90	29.68
Eureka.....	1.10	0.68	0.21	1.70	5.91	0.85	1.76	4.67	2.53	0.45	0.02	1.00	21.87
Fall River.....	1.35	1.37	0.37	3.32	8.84	1.24	1.42	4.39	2.33	1.00	T.	.....	.....
Fargo.....	0.30	0.10	0.00	0.55	0.91	1.37	.....	.....	.....	.....	.....	.....	.....
Farnsworth.....	0.38	0.16	0.00	0.42	2.38	2.94	1.05	2.34	1.57	0.06	T.	0.13	11.41
Fort Scott.....	1.73	1.03	0.57	2.13	6.31	4.49	4.52	3.46	8.08	2.25	0.18	0.61	35.38
Frankfort.....	1.35	T.	T.	0.10	9.16	7.15	1.56	7.70	2.73	0.22	0.05	0.65	30.67
Fredonia.....	1.05	1.37	0.06	1.83	6.38	3.09	0.90	4.94	2.35	1.47	0.05	0.94	24.43
Garden City.....	0.50	0.25	T.	1.29	2.28	2.19	3.36	3.91	0.27	T.	0.15	T.	14.20
Garnett.....	0.98	0.83	0.35	0.38	8.99	2.32	2.98	4.15	7.42	0.54	0.12	0.83	29.89
Goodland.....	.....	.....	.....	.....	.....	.....	.....	4.76	1.07	0.00	0.10	.....	.....
Gove.....	0.63	0.40	0.00	0.46	2.55	0.63	1.32	1.15	0.63	0.05	T.	0.15	7.97
Great Bend.....	.....	.....	.....	.....	3.36	1.16	1.76	2.98	.....	.....	.....	.....	.....
Greensburg.....	1.59	0.75	T.	1.34	1.58	1.62	2.62	3.32	0.23	0.43	T.	0.20	13.59
Grenola.....	1.13	0.78	0.15	2.17	4.41	2.03	1.32	4.06	2.67	0.77	0.03	0.53	20.15
Hanover.....	1.27	0.05	0.00	0.20	7.86	4.58	2.72	6.03	4.35	1.18	0.15	0.37	28.76
Harrison.....	0.62	0.13	T.	0.38	4.03	2.00	2.10	7.23	2.88	0.55	0.22	0.29	20.43
Hays.....	0.58	0.26	0.03	0.91	3.53	2.71	2.45	3.92	1.28	0.36	T.	0.14	16.17
Hill City.....	0.30	0.30	0.00	0.51	2.49	0.42	.....	.....	.....	.....	T.	0.28	.....
Horton.....	1.52	0.40	T.	0.60	8.22	3.95	1.61	4.65	7.21	0.70	0.20	0.64	29.70
Howard.....	1.07	0.61	0.19	2.21	5.02	2.20	2.26	3.21	2.25	0.94	T.	0.83	20.79
Hoxie.....	0.31	0.30	0.00	0.29	2.59	0.63	1.10	1.85	0.55	.....	.....	.....	.....
Hugoton.....	0.16	0.59	0.00	1.22	1.43	3.88	3.60	5.10	0.08	0.07	0.05	0.05	16.23
Hutchinson.....	1.67	0.19	T.	0.98	3.74	0.89	1.56	3.50	3.03	0.17	0.01	0.41	16.15
Independence.....	0.97	1.92	0.44	1.76	6.25	2.96	1.28	3.14	3.69	1.50	0.01	0.41	24.81
Iola.....	1.15	0.89	0.32	1.10	8.59	1.62	0.85	3.55	6.85	1.14	0.05	0.14	27.25
Jenice.....	.....	.....	0.01	1.08	2.56	1.08	1.29	1.67	0.56	.....	0.26	T.	.....
Jennett.....	0.57	0.17	T.	1.63	1.90	1.74	2.49	2.20	0.56	0.98	T.	0.06	12.30
Jewell.....	0.80	0.00	0.00	0.39	4.94	1.01	1.95	5.36	1.24	0.18	0.10	0.57
Kingman.....	1.04	0.25	T.	0.67	3.64	1.91	1.96	3.97	1.55	0.40	0.03	0.51	15.93
La Crosse.....	0.33												

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Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Kansas—Continued.</i>													
Macksville.....	0.80	0.06	0.13	0.91	1.49	0.91	2.32	2.29	2.26	0.42	T.	0.48	12.05
McPherson.....	1.48	0.10	0.00	1.00	4.56	1.58	1.86	4.29	2.86	0.70	0.04	0.83	20.39
Madison.....			0.25	0.00	6.81	1.28	1.55	5.52	7.06	0.32	T.	1.46	
Manhattan.....	1.91	0.18	T.	0.41	8.29	1.75	5.74	9.89	3.50	1.04	0.20	0.36	33.27
Mankato.....	0.32	0.10	T.	0.41	3.88	0.97	1.87	4.31	2.21	0.17	0.14	0.35	14.73
Marion.....	1.32	0.97	T.	1.24	6.01	1.32	1.99	7.43	4.23	0.78	0.12	0.88	26.30
Medicine Lodge.....	0.84	0.28	T.	1.02	3.83	0.94	2.54	3.03	0.17	0.49	T.	0.25	13.39
Medora.....					4.56	0.85	1.64	5.26					
Minneapolis.....	0.96	0.04	T.	1.13	8.15	1.15	2.15	3.99	1.49	0.24	0.10	0.23	19.59
Moran.....	0.69	1.41	0.15	1.55	6.26	2.66	1.92	4.06	6.72	1.27	T.	0.71	27.40
Mount Hope.....	1.00	0.57	0.00	1.19	3.24	2.02	2.22	3.15	1.93	0.44	T.	0.62	16.38
Natoma.....	0.52	0.30	0.00	0.75	3.05	0.83	0.21	2.35	1.20	0.50	0.00	0.62	10.33
Neosho Rapids.....	1.47	1.06	T.	1.10	7.88	2.83	1.18	5.59	5.20	0.50	0.07	1.88	28.76
Ness City.....	0.46			1.13	5.02	0.99	3.12	3.37					
Newton.....	1.07	0.74	0.02	1.05	6.16	1.87	1.78	5.48	5.49	0.40	0.01	0.58	25.25
Norton.....	0.53	T.	0.00	0.29	3.17	0.41	0.86	1.08	2.91	0.10	T.	0.29	9.64
Norwich.....	1.02	0.85	T.	1.88	2.97	1.89	2.03	4.34	1.47	0.55	0.06	0.23	17.29
Oberlin.....	0.19	0.14	0.00	0.51	3.42	1.01	0.88	4.13	1.42	T.	0.05	0.22	11.97
Oketo.....	1.10	0.02	T.	0.10	7.56	2.93	0.92	4.52	3.35	0.96	0.18	0.42	22.00
Olathe.....	2.21	0.91	0.14	1.56	9.57	4.10	2.63	5.09	6.86	0.62	0.20	1.76	35.65
Osage City.....	1.74	1.05	T.	1.19	8.04	3.69	2.41	6.42	7.22	0.66	0.14	1.87	34.43
Oswego.....	1.93	1.78	0.81	2.40	7.83	1.78	2.58	4.57	3.46	3.29	0.02	0.42	30.87
Ottawa.....	1.83	0.72	0.14	1.31	8.97	1.70	2.48	6.71	5.70	0.40	0.15	1.83	31.94
Phillipsburg.....	0.40	0.15	0.00	0.72	3.24	1.31	0.98		5.04	0.74	0.08	0.45	
Plains.....					1.46	0.75	1.74	1.36	0.00	1.18	0.07	0.02	
Pleasanton.....	0.25	0.30	0.00	0.76	2.17	0.45	2.61	3.75					
Pleasanton.....	1.09	1.23	0.37	3.35	7.93	1.56	3.14	2.33	8.50	1.16	0.11	0.98	31.75
Pratt.....	1.88	0.40	T.	1.40	1.21	0.20	1.76						
Republic.....					5.33	3.20							
Rome.....	0.77	0.86	T.	1.60	3.61	1.06	3.43	3.70	0.40	0.15	0.10	0.76	16.44
Russell.....	0.81	0.12	0.00	1.69	4.09	0.78	1.59	4.48	0.70	0.27	0.00	0.18	14.71
Russell Springs.....						0.37	1.44	3.24	1.05	T.	0.06	0.04	
Salina.....	1.16	0.16	T.	1.33	4.67	1.38	1.12	4.73	1.98	0.08	0.09	0.19	16.89
St. Francis.....	0.20	0.05	T.	0.53	2.64	1.69	0.68	4.10	1.67	0.01	0.02	0.10	11.69
Scott.....	1.02	0.14	T.	0.79	2.08	0.97	2.12	6.49	1.32	0.08	0.03	0.18	15.22
Sedan.....	0.99	0.30	0.23	0.34	2.82	0.37	0.37	3.38	1.97	1.54	0.05	0.33	17.76
Smith Center.....	0.39	0.05	0.00	0.51	4.37	0.82	1.54		4.59	0.31	0.31	0.65	
Popok.....	2.42	0.87	0.06	0.66	7.52	1.76	2.80	8.00	5.63	1.57	0.25	1.03	32.57
Toronto.....	1.25	0.95	0.00	2.35	8.31	1.76	1.47	5.13	2.82	0.81	0.00	1.38	26.03
Ulysses.....	0.55	0.30	T.	1.08	1.25	2.89	0.82	5.80	T.	0.05	T.		12.74
Valley Falls.....	1.65	0.70	T.	0.82	8.55	3.73	2.10	3.81	3.67	0.71	0.30	1.06	27.10
Vinland.....	1.95	0.96	0.11	1.78	7.36	2.15	1.90	6.67	7.32	0.36	0.16	1.36	32.08
Wakeeney.....	0.35	0.15	0.00	0.23	3.51	1.03	1.79	2.30	2.28	0.41	T.	0.17	12.22
Wallace.....	0.07	T.	0.00	0.48	1.92	0.25	1.44	2.52	1.24	0.04	0.07	0.02	8.05
Walnut.....	1.50	1.88	0.45	2.24	9.39	2.66	4.96	6.47	10.94	1.71	0.04	0.47	42.71
Wamego.....	1.80	0.65	T.	0.27	8.85	3.40	5.25	8.50	4.88	1.15	0.20	1.15	35.80
Wichita.....	0.55	0.63	T.	0.96	5.11	1.94	1.24	4.52	1.56	0.52	T.	0.69	17.72
Winfield.....	1.14	0.88	0.46	1.51	2.82	1.92	2.58	3.98	2.70	0.17	T.	0.55	19.36
Yates Center.....	0.94	1.01	0.04	2.43	7.49	1.90	1.23	4.44	3.00	0.78	T.	1.47	24.73
<i>Kentucky.</i>													
Alpha.....	5.80	5.14	1.88	6.23	7.61	7.09	9.58	2.40	3.15	3.40	2.20	3.47	57.92
Anchorage.....	4.03	6.18	0.05	5.56	4.92	4.03	9.33	1.50	4.75	6.37	2.99	3.54	53.85
Bardstown.....	3.98	4.81	0.32	5.08	3.82	5.50	8.04	6.38	2.92	3.69	1.96	4.22	50.33
Beattyville.....	5.98	5.12	1.16	4.50	6.80	4.98	8.72	5.16	5.78	2.16	3.84	3.92	58.12
Beaver Dam.....	4.85	5.10	0.32	6.50	2.71	2.30	13.24	1.15	3.99	5.23	1.51	3.19	50.09
Bersa.....	3.22	4.49	0.50	3.40	5.77	6.29	10.83	6.09	4.83	2.67	2.67	3.05	53.81
Blandville.....	3.74	4.16	2.40	8.06	3.26	3.53	8.20	4.05	1.44	11.15	1.43	4.02	55.44
Bowling Green.....	2.51	5.11	1.15	5.73	6.25	5.82	10.67	1.03	3.87	3.20	1.19	3.12	49.65
Burnside.....	5.50	4.34	0.76	4.74	7.34	5.34	10.54	3.44	7.07	2.42	1.74	3.90	57.13
Cadiz.....	3.81	5.97	3.35	4.72	3.70	2.26	10.61	0.16	2.26	9.71			
Calhoun.....	4.76	5.16	0.18	7.01	2.37	2.46	11.05	3.61	1.43	10.61	1.22	3.59	53.45
Catlettsburg.....	5.00	3.44	0.62	4.28	4.62	6.21	8.76	2.06	3.96	1.62	1.91	3.48	45.96
Earlington.....	4.68	4.72	0.37	7.02	3.56	2.32	12.01	0.70	1.09	7.51	2.80	2.61	49.39
Edmonton.....	3.47	5.93	1.32	6.30	9.00	6.44	12.13	2.19	5.24	3.18	1.23	3.27	59.69
Eubank.....	4.59	3.87	0.75	.....	5.82	7.00	8.97	4.01	6.63	3.11	4.29	2.97	
Falmouth.....	4.15	5.11	0.89	2.78	3.97	4.74	6.59	2.47	7.87	2.68	1.64	3.84	46.73
Farmers.....	5.76	3.47	0.46	5.02	5.62	7.24	6.93	5.01	5.09	2.53	1.92	3.09	52.14
Frankfort.....	3.73	4.15	0.18	2.94	3.66	6.59	8.62	3.37	5.02	3.38	1.76	2.14	45.54
Franklin.....	4.12	4.37	2.02	6.64	5.45	4.25	9.36	1.13	2.43	4.14	1.03	3.80	48.83
Greensburg.....	5.38	4.59	1.67	5.85	0.48	5.87	6.22	2.83	6.59	2.96	2.83	2.97	53.74
High Bridge.....	4.55	3.99	0.83	5.34	5.47	7.47	6.95	3.31	8.55	1.90	2.68	3.07	54.11
Hopkinsville.....	4.62	3.72	2.12	6.32	3.58	4.83	8.08	0.64	1.03	6.85	1.09	3.12	45.95
Irvington.....	4.17	6.01	0.07	5.87	3.55	4.56	8.73	4.14	3.07	5.57	1.33	3.26	50.33
Leitchfield.....	4.56	4.54	0.28	5.36	5.79	4.78	6.98	2.28	4.92	3.88	1.62	3.70	48.69
Lexington.....	4.46	4.11	0.46	4.22	6.24	5.92	7.66	4.15	7.92	1.67	1.72	2.81	51.34
Loretto.....	3.40	2.89	0.27	5.50	5.75	5.53	6.26	3.27	5.02	2.97	1.80	2.64	45.30
Louisville (Weather Bu.).....	3.25	5.22	0.12	4.61	3.95	4.08	10.21	2.31	2.18	6.70	3.32	3.65	50.01
Louisville (Cherokee Park).....	3.16	5.94	0.10	5.43	4.45	1.64	13.60	2.00	4.36	6.50	3.34	3.55	54.07
Lynnville.....	4.52	5.54	1.19	5.45	3.09	3.61	9.34	0.74	1.19	7.10			
Marion.....	3.67	5.30	0.22	6.62	4.16	4.70	9.35	0.89	1.31	9.45	2.64	3.82	52.13
Maysville.....	5.78	5.45	1.07	3.67	3.89	7.34	9.87	2.33	2.92	2.18	1.37	3.07	48.94
Middlesboro.....	4.98	4.33	0.64	4.29	5.86	5.25	2.47	5.15	2.22	1.15	4.06	4.44	44.88
Mount Sterling.....	5.83	5.02	1.02	5.93	5.56	9.31	9.59	3.26	7.95	2.21	1.91	2.50	60.09
Owensboro.....	2.29	3.72	T.	6.61	3.22	5.50	12.71	1.24	4.60	9.22	1.57	2.86	53.54
Owenton.....	4.78	7.15	0.49	3.78	4.07	4.71	8.11	1.40	5.25	4.58	2.04	4.51	50.87
Paducah.....	3.54	3.24	0.88	6.90	3.20	2.92	11.94	2.20	1.20	9.22			

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Louisiana.</i>													
Abbeville	2.19	3.13	1.70	1.62	8.54	10.11	9.95	4.26	4.92	3.47	1.93	4.24	56.06
Alexandria	4.01	8.03	1.25	4.07	9.43	6.56	3.29	2.40	2.19	5.60	2.84	4.42	54.09
Amite	3.97	4.10	0.10	3.70	7.32	11.14	8.87	6.82	4.93	3.75	2.58	4.97	62.25
Baton Rouge	2.89	4.39	0.51	1.10	4.13	4.87	9.43	1.67	3.29	2.52	2.14	4.17	41.11
Burnside	3.14	5.22	0.83	0.71	3.61	8.41	9.64	10.01	5.09	3.03	2.86	5.08	57.63
Burrwood	1.94	6.63	1.35	0.45	3.41	6.27	11.48	10.43	9.33	3.10	2.53	3.53	60.48
Cades						4.26	9.02	4.02	5.08	3.33	3.58		
Calhoun	5.37	6.45	1.06	1.91	5.82	5.99	2.35	2.78	0.34	1.89	2.37	5.41	42.74
Carson			0.54	1.07	5.15	8.41	9.87	2.99	3.33	3.91	0.35	4.79	
Cheneyville	2.50	4.38	1.32	4.30	6.21	6.95	8.83	4.27	1.10	3.36	2.69	5.40	51.31
Cinclare										2.81	2.16	3.85	
Clinton	3.87	2.47	0.56	2.22	4.75	8.01	9.94	4.03	3.98	3.07	3.07	3.84	50.06
Collinston	6.21	6.13	0.72		5.42	8.55	4.41						
Covington	2.39	5.34	0.45	0.57	4.05	4.77	7.16	5.74	3.88	5.03	3.47	3.52	46.37
Dodson	3.66	9.34	2.59	1.99	7.40	5.74	3.58	4.37	0.68	2.32	2.35	5.04	49.06
Donaldsonville	3.95	5.40	0.60	1.13	3.03	10.42	5.16	4.75	10.37	3.55	5.90	7.50	61.76
Farmerville	3.59	6.07	0.78	2.09	6.23	9.12	9.18	2.78	0.94	2.30	1.13	5.06	49.29
Franklin	2.32	4.66	1.48	4.56	8.58	6.72	6.03	1.29	1.43	1.85	3.48	4.60	47.00
Franklin	2.91	4.28	0.75	0.25	4.88	8.57	10.89	5.29	2.68	5.20	2.69	2.95	51.34
Grand Cane	1.09	4.53	1.35	1.71	8.07	6.32	1.22	0.50	0.20	1.35	1.37		
Grand Coteau	3.68	3.12	0.20	2.89	6.80	8.93	11.05	2.23	2.82	2.59	2.44	5.47	52.22
Hammond	1.95	5.78	0.38	0.15	4.27	9.71	12.48	3.03	4.19	3.01	2.04	3.81	50.80
Houma					3.25	4.40	15.81	4.91	6.10	4.75	1.60		
Jennings	3.96	2.90	0.82	1.17	9.00	7.65	8.89	2.34	1.06	4.06	3.02	4.68	49.54
Lafayette	3.13	2.59	1.47	1.78	7.05	8.62	10.90	5.55	0.85	3.07	4.68	4.16	53.85
Lake Charles	5.38	2.52	0.39	0.85	4.96	10.11	11.89	10.63	2.54	6.83	3.25	2.15	61.10
Lakeside	2.84	2.54	0.36	0.65	7.46	15.03	12.30	6.59	5.35	1.19	5.90	60.41	
Lawrence	2.04	4.44	2.11	1.41	2.64	7.24	8.37	2.49	4.61	4.16	1.58	3.59	44.68
Leesville										1.04	0.97	6.24	
Liberty Hill	3.96	6.15	2.49	3.16	8.74	5.39	5.54	4.71	0.46	0.87	2.02	3.55	47.04
Logansport	2.61	6.20	1.08	1.02	9.57	3.78	3.36	1.09	0.64	1.69	1.42	4.46	37.82
Melville	4.06	2.26	0.20	2.35	4.99	6.62	10.00	1.61	2.64	1.62	3.65	4.71	44.71
Minden	3.08	5.14	1.57	2.44	6.58	5.60	3.64	7.01	0.65	1.71	2.16	4.24	43.82
Monroe	4.06	5.92	0.52	1.21	5.96	4.29	4.00	3.68	0.54	2.70	2.14	4.90	39.92
Morgan City	3.27	4.00	0.68	0.85	4.18	6.68	15.43	6.30	4.00	3.45	1.40	3.06	53.30
Newellton	3.85	7.05	0.93	5.56	6.04	8.76	3.70	0.96	1.72	2.55	3.03		
New Iberia	2.73	3.00	1.95	0.92	5.26	8.04	9.82	2.48	8.00	3.05	3.15	3.81	52.24
New Orleans (Weather Bu.)	2.68	4.75	3.15	0.90	4.65	9.46	6.40	6.01	4.91	2.09	3.05	3.45	51.50
New Orleans (Ex. Sta.)	2.83	3.90	3.85	1.13	3.74	5.61	6.80	4.85	2.38	3.05	3.70	4.89	48.79
New Orleans (1)	2.01	3.36	2.34	1.28	4.26	6.94	8.97	4.67	5.37	1.89	2.27	3.02	45.96
New Orleans (1)	2.60	3.68	3.76	0.88	4.25	5.25	8.25	4.70	5.77	2.14	3.86	3.42	46.09
New Orleans (1)	2.10	4.35	3.28	0.98	4.25	7.56	6.49	4.64	5.09	3.15	4.52	3.49	49.90
New Orleans (1)	2.85	4.70	3.03	0.88	4.91	9.21	6.10	5.79	4.23	1.96	3.21	3.24	50.11
New Orleans (1)	3.10	4.06	2.90	0.88	7.79	7.79	7.65	6.69	4.52	2.22	2.39	4.28	54.27
New Orleans (1)	2.52	4.68	2.26	1.07	4.64	8.42	5.68	3.81	5.63	2.68	3.20	3.15	47.94
Opelousas	3.37	2.12	T.	5.03	6.55	7.04	11.88	3.84	2.63	2.18	2.46	5.30	52.40
Pearl River	2.30	3.26	0.86	0.17	3.76	8.21	-6.09	5.71	3.72	3.04	1.62	3.61	42.35
Plain Dealing	1.64	5.38	1.94	5.69	5.84	5.05	1.12	7.29	1.10	2.07	0.89	3.77	41.78
Rayne	4.04	3.05	1.26	1.65	4.77	8.75	10.22	4.05	2.82	3.11	3.92	3.29	50.93
Reserve			1.19	0.21	3.80	9.06	7.24	8.36	6.91	1.99	3.29	3.95	
Robeline	2.50	3.92	1.52	2.92	13.00	4.65	4.23	4.15	2.03	4.37	1.74	4.30	49.33
Ruston	5.00	7.03	2.00	0.85	5.70	5.62	4.87	0.82	2.50	0.80	2.00	2.30	41.49
St. Francisville	2.82	2.68	0.97	4.07	3.10	6.95	7.04	4.19	4.05	2.87	2.35	5.97	49.06
Schriever	3.25	3.42		0.30	4.51	6.08	10.81	9.95	6.06	4.03	2.49	4.10	
Sheridan										3.17	2.60	2.01	
Shreveport	2.67	4.53	2.84	1.61	6.62	4.84	1.44	3.19	0.69	2.40	2.94	3.74	37.51
Simmesport	4.41	3.01	0.29	3.71	5.50	8.11	7.48	2.51	2.21	2.34	1.66	5.27	46.50
Southern University Farm	2.31	3.50	2.80	1.04	5.05	4.91	6.52	4.66	5.13	3.01	3.40	3.47	45.82
Sugar town	2.81	4.94	1.02	2.93	4.54	3.99	10.94	1.62	1.09	7.00	2.80	3.80	47.48
Tallulah	3.79	7.09	0.34	1.39	5.32	6.69	2.67	1.95	0.51	3.96	2.43	4.73	39.87
Walker								4.19	6.10	3.10	2.40	3.86	
<i>Maine.</i>													
Bar Harbor	3.30	5.40	3.10	5.17	1.75	4.15	1.00	2.65	1.12	1.01	2.00	4.25	34.90
Cornish	4.25	5.19	1.76	4.90	1.68	3.39	1.64	3.53	3.40	2.04	2.62	3.42	37.82
Danforth	2.91	2.48	0.35	1.85	2.40	3.57	3.55	1.44	1.80	1.62	3.28	1.35	26.60
Eastport	3.80	4.52	1.98	3.42	1.55	2.72	1.92	1.44	1.84	1.85	2.14	3.68	30.86
Fairfield	2.19	2.95	1.71	2.37	1.77	1.99	2.26	4.46	2.04	1.10	1.53	2.90	27.27
Farmington	3.48	2.97	1.41	4.38	2.16	3.15	3.10	3.94	2.90	1.19	2.21	2.74	32.13
Gardiner	3.22	4.30	1.98	4.46	2.03	2.26	1.83	4.53	2.58	2.26	2.70	2.97	35.11
Greenville	3.43	3.51	2.18	2.51	4.65	5.31	4.18	3.69	2.77	2.13	3.21	2.64	40.21
Houlton	0.95	2.00	1.40	2.66	3.75	2.50	2.17	1.07	0.85	1.65	1.42	0.87	21.29
Lewiston	3.44	4.24	1.90	4.16	1.94	2.62	2.40	4.81	2.68	1.69	2.18	3.1	35.20
Millison	4.13	2.69	1.91	4.38	2.71	4.19	4.01	3.69	2.95	1.51	2.87	2.99	38.03
North Bridgton	4.05	3.56	1.66	4.27	2.97	4.37	3.72	2.39	2.61	2.21	2.96	2.96	37.63
Orono	3.77	4.48	1.65	4.92	3.20	3.28	1.35	5.72	4.15	3.13	2.61	3.63	41.79
Patru	3.57	3.42	1.91	2.76	1.42	2.70	2.43	3.72	2.79	2.56	1.42	2.88	31.58
Portland	3.10	3.31	0.93	5.35	6.08	4.28	4.27	2.28	4.68	2.88	2.36	2.73	42.93
Presque Isle	2.90	4.84	1.62	4.12	1.65	3.26	1.64	2.79	2.89	1.27	1.85	3.43	32.26
Rumford Falls	1.89	1.63	0.92	3.40	3.91	2.90	6.38	0.93	2.75	2.87	2.78	1.73	32.18
The Forks	3.88	2.68	1.78	4.68	2.83	2.97	2.22	3.51	2.94	1.36	2.28	2.51	33.44
Winslow	2.98	3.32	2.23	2.85	5.35	3.40	5.10	1.85	2.16	2.35	2.50	1.70	35.79
Winslow	3.12	2.41	1.80	3.14	2.07	4.10	2.90	5.52	2.51	1.46	2.43	2.78	34.90
<i>Maryland.</i>													
Annapolis	5.41	1.81	2.25	0.36	6.39	8.05	2.67	2.03	2.54	3.72	4.72	3.47	52.45
Bachman's Valley		3.43	0.80	5.71	1.74	4.42	1.52	1.45	0.60	2.20	0.86	2.35	
Baltimore	4.68	2.28	0.46	7.76	2.95	5.90	0.95	1.37	2.13	2.71	1.93	2.45	34.97
Cambridge	4.23	2.24	3.86	5.83	2.20								

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Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Maryland—Continued.</i>													
College Park.....		1.23	1.17	6.31	3.94	4.42	1.62	1.59	0.92	4.23	2.34	1.86	.....
Cumberland.....	4.19	1.98	0.37	4.26	3.15	6.21	4.22	1.34	3.97	1.20	0.89	1.40	33.18
Darlington.....	5.04	2.59	0.21	4.73	3.63	6.45	1.96	1.99	1.07	2.71	2.27	2.40	34.45
Deer Park.....	4.90	3.72	0.57	3.22	4.09	5.95	2.31	2.61	3.43	1.31	3.27	3.40	38.98
Denton.....	3.52	1.19	1.27	4.63	1.70	6.57	1.82	4.68	1.39	4.75	2.81	2.93	37.26
Easton.....	3.61	0.78	1.99	3.15	1.99	5.39	2.53	3.82	1.44	7.34	3.46	2.32	39.82
Emmitsburg.....	5.32	4.02	0.70	5.75	1.85	.....	.....	.....	1.72	1.45	0.93	1.40	.....
Fallston.....	4.76	2.29	0.84	7.58	3.87	5.15	1.45	2.49	1.15	2.36	2.09	2.16	36.19
Frederick.....	4.85	3.54	0.49	4.46	2.52	4.89	0.85	0.54	0.66	2.88	1.04	2.46	29.18
Frostburg.....	5.39	2.81	0.38	4.03	3.29	8.08	3.73	1.64	3.36	1.10	1.36	2.24	37.41
Grantsville.....	4.90	2.61	0.42	3.94	4.06	5.43	.....	1.89	2.90	1.44	3.40	3.21	.....
Great Falls.....	4.21	2.01	0.42	5.37	2.52	4.35	1.75	1.34	2.49	3.65	0.67	1.64	30.42
Green Spring Furnace.....	3.67	3.06	0.45	4.12	2.56	5.49	2.61	1.59	3.02	1.44	1.32	2.35	31.68
Keedysville.....	4.28	3.43	0.57	5.54	2.43	4.67	1.13	1.06	1.19	1.52	1.04	1.83	28.45
Lake Montebello.....	4.20	2.11	0.41	6.76	2.90	5.18	0.63	1.63	1.76	2.34	1.62	1.87	31.61
La Plata.....			1.50	8.67	3.52	.....	.....	.....	2.33	4.19	.....	.....	.....
Laurel.....	4.22	2.01	0.56	10.37	2.36	6.13	1.15	1.94	1.11	2.57	1.34	2.25	36.01
Monrovia.....	7.75	2.96	0.67	4.09	2.10	5.31	5.25	1.84	2.46	2.94	1.18	1.94	35.07
Oakland.....	5.35	2.78	0.95	3.11	3.43	6.34	3.19	2.36	3.65	1.75	2.91	2.35	38.20
Pocomoke City.....	4.17	2.04	3.39	5.07	3.03	3.85	5.19	9.23	3.46	4.47	[2.05]	3.26	49.21
Porto Bello.....			6.75	2.05	4.60	.....	3.45	2.75	2.10	5.75	.....	2.00	.....
Princess Anne.....	4.25	1.35	3.22	4.92	4.59	6.17	1.72	12.63	2.10	6.27	1.74	3.06	52.02
Rockville.....	4.05	2.77	0.41	6.61	2.93	5.87	.....	.....	2.40	4.26	.....	.....	.....
Salisbury.....	4.37	1.50	3.35	4.33	4.00	5.43	3.42	8.29	2.40	6.29	2.47	2.79	48.04
State Sanatorium.....	5.81	3.97	0.46	6.08	2.10	7.03	1.81	1.87	1.54	1.85	1.32	2.78	36.62
Solomons.....	3.49	2.15	2.12	2.74	1.57	4.86	5.67	4.56	1.90	5.29	1.52	2.19	38.06
Sudlersville.....	4.80	1.24	1.89	4.19	2.49	6.53	3.51	2.78	0.88	4.67	4.25	3.08	40.32
Takoma Park.....	2.59	1.46	1.34	5.97	3.60	5.32	2.64	1.93	0.27	4.50	1.75	2.32	33.69
Taneytown.....	3.68	3.88	0.47	6.08	1.84	5.95	2.24	3.95	1.09	2.17	0.92	1.53	33.80
Towson.....	5.03	2.25	0.81	7.62	2.49	5.62	1.54	1.14	1.17	2.21	1.88	2.24	34.60
Van Bibber.....			7.71	4.73	6.60	.....	1.80	3.65	1.63	1.57	2.55	2.36	.....
Westernport.....	4.71	2.32	0.23	3.22	2.45	5.08	1.28	1.18	2.57	0.98	1.39	1.33	26.74
Woodstock.....	3.45	2.19	0.46	5.21	2.97	.....	.....	0.90	1.62	2.71	1.34	1.86	.....
<i>Massachusetts.</i>													
Amherst.....	6.14	5.08	1.37	3.07	2.67	2.65	1.90	4.03	2.86	0.93	3.69	1.72	36.11
Ashland.....	5.45	0.91	2.61	1.16	1.16	5.06	2.37	2.86	2.58	1.71	4.04	2.64	36.34
Bakers Bridge.....	3.27	3.25	1.27	2.48	1.09	3.80	1.73	1.99	2.83	0.94	3.33	1.80	27.78
Bedford.....	4.10	4.00	1.36	2.64	1.43	2.87	1.65	2.17	2.88	1.29	3.54	2.19	30.12
Blue Hill.....	4.89	4.03	1.77	2.64	1.80	3.97	2.41	1.05	2.29	1.64	5.39	2.59	34.27
Boston.....	4.25	3.44	1.25	2.22	1.02	4.89	1.15	0.98	2.14	1.14	3.75	2.16	28.34
Chestnut Hill.....	6.11	5.69	1.16	3.57	2.03	5.36	1.93	1.18	2.65	1.69	4.77	2.91	39.05
Clinton.....	6.49	4.57	1.28	2.93	1.77	4.68	1.53	4.07	2.98	1.88	4.52	2.41	39.11
Concord.....	4.30	4.16	1.44	2.50	1.47	3.35	1.63	2.22	2.97	1.65	3.52	2.03	31.24
Fall River.....	5.72	4.55	1.86	1.80	2.12	4.01	2.54	3.66	2.46	1.74	3.54	2.99	36.99
Fitchburg.....	5.05	4.16	1.14	2.78	1.84	4.35	1.91	3.57	3.01	1.34	2.69	2.11	33.97
Frammingham.....	4.98	5.10	0.77	2.72	1.34	4.81	1.70	2.26	2.57	1.88	4.02	2.43	34.64
Haverhill.....	4.34	3.85	1.41	2.07	1.40	4.11	1.05	2.72	2.22	1.89	3.22	1.66	30.84
Hingham.....	4.83	4.25	2.19	2.37	1.82	3.69	2.28	1.70	2.11	1.70	5.33	2.63	34.90
Hyannis.....	6.78	4.23	2.45	2.92	3.99	2.56	1.87	3.17	1.82	2.92	3.86	3.64	40.11
Jefferson.....	6.99	5.58	1.23	3.69	1.89	3.86	1.16	3.96	2.78	1.23	4.21	2.75	38.73
Lake Cochituate.....	5.11	5.16	0.77	2.71	1.35	4.51	2.26	1.88	2.59	1.80	4.16	2.61	34.47
Lawrence.....	4.00	4.56	1.32	2.56	1.32	2.90	2.19	2.67	1.83	1.56	2.73	2.04	29.77
Leominster.....	5.72	4.76	1.29	3.08	1.84	5.31	1.95	4.09	2.95	1.35	3.77	1.94	37.75
Lowell.....	4.41	5.87	0.74	2.57	1.31	4.37	1.93	3.21	2.04	1.18	3.47	2.15	33.25
Middleboro.....	4.88	4.38	1.70	2.06	2.63	4.64	2.23	1.59	2.00	1.77	4.33	2.81	35.02
Monson.....	5.62	4.66	1.44	2.85	2.51	3.15	2.62	4.00	2.51	1.05	3.97	2.39	36.77
Nantucket.....	6.90	3.41	2.74	2.95	3.36	6.06	4.18	2.67	0.61	4.72	3.46	4.33	45.39
New Bedford.....	5.50	4.70	1.68	1.71	2.81	3.07	2.47	2.01	1.53	2.05	3.75	3.04	34.38
Norfolk.....	4.30	2.62	1.20	1.52	1.74	4.06	2.29	0.83	2.21	1.84	5.91	4.05	32.57
Northampton.....	6.15	4.18	1.67	5.06	2.29	3.87	1.86	3.52	3.36	0.92	3.44	2.09	38.41
Plymouth.....	4.42	5.07	1.85	2.51	2.29	3.64	2.39	2.56	1.09	1.78	5.00	3.11	35.52
Princeton.....	5.43	4.94	1.39	3.44	3.28	4.23	1.82	3.45	2.89	1.36	4.23	2.21	38.34
Provincetown.....	6.33	3.43	1.81	3.08	2.19	3.25	1.81	4.42	1.47	2.20	3.45	2.75	36.19
Rockport.....	6.20	5.25	2.38	2.52	2.28	3.60	3.10	2.45	2.15	2.11	4.11	3.04	39.19
Rutland.....	5.53	5.66	0.81	2.96	2.05	4.99	1.60	4.23	3.52	1.23	3.85	2.33	38.97
Somerset.....	5.02	4.42	2.64	1.32	2.94	3.80	3.05	2.80	2.29	2.24	4.27	2.85	38.24
South Egremont.....	6.04	4.16	1.65	4.66	5.00	3.21	1.89	4.15	2.41	1.18	4.37	2.14	40.86
Spot Pond.....	4.80	4.84	1.02	2.68	1.32	4.59	1.47	1.19	2.38	1.13	3.71	2.28	31.41
Sterling.....	5.29	5.62	0.81	2.77	1.68	4.83	1.59	3.91	2.66	1.51	4.16	1.96	36.81
Taunton.....	7.09	4.53	1.74	1.69	3.00	4.08	2.17	2.30	2.04	1.76	4.78	3.05	38.23
Turners Falls.....	5.94	4.83	1.54	3.12	2.68	3.10	1.84	1.68	3.19	1.01	3.55	2.08	34.56
Westboro.....	5.22	3.10	1.60	2.42	1.22	4.23	1.67	3.78	2.62	1.51	4.56	2.17	34.10
Williamstown.....	3.80	3.14	1.02	2.53	5.06	3.68	2.91	2.01	5.63	2.03	3.61	3.52	36.94
Winchendon.....	5.04	4.65	1.54	2.89	3.07	2.21	1.94	3.18	3.05	1.11	2.98	1.99	33.25
Worcester.....	5.10	3.76	0.92	2.70	1.85	5.03	2.13	3.61	4.32	1.42	2.90	1.82	35.56
<i>Michigan.</i>													
Adrian.....	3.21	2.05	0.24	3.64	3.72	1.65	3.26	1.58	5.32	1.55	1.74	1.30	29.26
Allegan.....	3.15	1.11	0.19	3.92	4.02	.....	1.41	3.25	2.93	2.87	2.19	1.80	.....
Alpena.....	1.85	1.52	0.13	3.07	4.91	1.54	1.60	1.72	2.90	3.25	2.19	1.87	26.55
Ann Arbor.....	1.66	1.09	0.44	2.82	2.10	0.92	1.70	2.54	4.06	3.45	2.32	1.29	24.59
Ann Arbor.....	2.46	1.43	0.48	3.41	3.63	1.51	2.80	1.93	2.95	1.85	2.34	2.27	27.08
Arbela.....	1.48	1.97	0.41	5.48	3.90	1.65	3.65	2.93	1.98	3.70	2.60	1.96	31.71
Baraga.....	1.30	1.30	0.15	.....	.....	1.00	.....	3.50	.....	.....	.....	1.50	.....
Battle Creek.....	3.12	1.55	0.51	3.61	5.19	1.03	1.03	3.52	2.97	2.84	1.36	2.14	28.87
Bay City.....	1.35	2.85	T.	6.35	5.85	2.70							

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Michigan—Continued.</i>													
Charlevoix.....	2.20	0.80	0.02	1.77	1.82	1.27	1.63	.....	2.11	2.55	2.95	1.60	.....
Charlotte.....	1.33	1.01	0.06	3.51	3.05	1.25	1.82	3.44	2.67	.....	0.86	1.42	.....
Chatham.....	2.59	1.58	0.54	2.61	2.32	1.93	1.39	3.97	2.23	3.10	3.40	2.25	27.91
Chesboygan.....	1.42	1.20	0.55	3.24	2.88	1.09	1.47	4.25	2.40	5.81	3.28	0.90	28.50
Clinton.....	2.24	1.34	0.38	3.33	3.11	0.94	1.87	2.31	4.02	1.29	1.51	1.64	23.08
Coldwater.....	2.02	2.30	0.22	3.03	3.36	1.65	3.54	3.55	4.01	1.38	1.83	1.51	28.40
Concord.....	.....	1.68	0.15	3.73	3.60	1.89	1.41	2.82	2.83	1.19	1.55	2.25	.....
Croton.....	1.02	0.90	0.25	2.32	2.84	1.12	3.14	2.86	2.26	2.10	2.49	1.13	22.43
Deer Park.....	2.25	1.70	0.28	2.70	2.20	1.73	1.80	1.90	1.75	0.93	1.65	1.80	20.71
Detour.....	.....	2.00	0.22	2.46	2.55	1.86	1.83	2.94	2.80	4.41	2.32	1.48	.....
Detroit.....	3.14	1.84	0.38	4.73	3.65	1.47	1.48	1.11	2.02	1.07	2.04	2.05	24.88
Durand.....	1.16	1.08	0.48	3.30	3.83	1.54	1.88	1.60	2.21	1.94	0.88	.....	.....
Eagle Harbor.....	1.06	1.63	0.07	2.78	2.26	0.24	2.31	3.56	1.94	1.63	1.58	0.88	19.94
East Tawas.....	1.75	1.20	0.33	2.37	4.88	1.50	1.90	1.48	3.35	3.23	1.17	0.86	22.02
Eloise.....	.....	1.30	0.34	3.49	4.43	1.25	3.64	2.51	2.17	1.24	1.87	2.20	.....
Escanaba.....	1.52	1.47	0.27	4.87	1.60	1.05	1.84	5.22	3.39	3.04	1.81	1.34	27.43
Ewen.....	2.10	2.60	0.24	1.46	2.43	0.75	1.21	4.14	2.56	2.86	2.90	3.55	26.80
Flint.....	1.43	1.08	0.62	4.51	3.83	1.63	4.12	1.78	2.59	1.99	2.05	1.15	26.78
Frankfort.....	2.65	2.70	0.30	2.22	2.76	0.66	2.40	5.07	3.57	3.22	2.45	1.95	29.95
Ganges.....	1.68	1.35	0.42	2.57	6.31	1.25	2.25	2.49	2.05	4.40	1.69	1.44	27.90
Gaylord.....	.....	0.10	0.25	2.25	2.25	0.30	3.60	2.46	3.44	1.31	.....	.....	.....
Gladwin.....	0.90	0.95	T.	0.75	2.25	0.80	1.20	2.00	2.85	.....	1.11	0.45	.....
Grand Haven.....	2.41	1.59	0.21	2.88	4.50	1.23	1.71	3.21	1.98	2.48	1.91	1.62	25.73
Grand Marais.....	3.25	2.90	0.20	1.22	1.42	0.60	0.55	.....	1.50	2.69	2.72	.....	.....
Grand Rapids.....	2.04	1.15	0.08	3.16	3.88	1.04	1.41	3.28	1.58	3.17	1.37	1.37	23.53
Grape.....	1.29	0.22	5.03	3.30	0.91	1.12	1.54	2.64	1.28	1.72	1.72	1.06	.....
Grass Lake.....	1.40	1.29	0.11	3.95	4.18	1.51	1.94	2.64	3.62	1.64	2.86	2.06	27.20
Grayling.....	3.45	0.40	.....	.....	.....	.....	.....	.....	.....	.....	3.10	1.50	.....
Harbor Beach.....	2.60	2.15	0.20	3.70	1.70	1.95	2.45	2.15	3.40	1.30	1.10	1.86	24.56
Harrison.....	1.40	1.60	0.46	2.12	.....	.....	1.09	2.95	2.89	1.75	1.61	0.80	.....
Harrisville.....	1.95	1.40	0.66	3.53	2.50	2.50	1.68	2.63	3.73	3.45	1.81	2.24	28.08
Hart.....	1.60	1.60	T.	1.64	2.15	0.62	1.51	5.93	4.00	3.78	1.98	.....	.....
Hayes.....	.....	1.63	0.15	3.34	2.16	2.69	1.65	1.69	3.59	2.68	.....	.....	.....
Highland.....	2.90	2.71	0.74	4.44	3.82	1.59	1.28	1.83	2.01	1.60	2.57	3.31	28.80
Hillsdale.....	1.83	1.46	0.07	2.54	3.35	1.06	6.15	2.49	3.85	1.65	0.76	1.64	26.55
Holland.....	2.48	2.18	0.14	3.19	4.43	0.79	2.09	3.22	2.21	3.73	1.93	1.57	27.96
Houghton.....	1.82	1.54	0.49	2.03	3.09	0.39	1.97	4.59	2.84	1.63	1.62	1.02	25.23
Howell.....	1.81	1.50	0.65	5.63	3.91	2.40	3.05	2.09	4.86	1.51	2.27	1.48	30.56
Humboldt.....	.....	.....	.....	1.70	.....	T.	1.16	3.16	1.17	2.44	.....	1.00	.....
Iron Mountain.....	0.50	1.20	0.11	4.75	.....	.....	.....	2.56	1.42	2.38	1.12	0.52	.....
Iron River.....	1.00	1.60	0.90	2.80	4.26	1.20	3.40	2.90	3.50	2.39	0.70	2.20	27.61
Ironwood.....	1.60	1.60	0.04	2.13	2.01	0.10	2.74	2.40	3.33	3.27	1.06	1.01	21.29
Ishpeming.....	1.42	1.30	0.51	2.90	2.31	0.65	1.95	2.65	0.95	2.40	1.57	0.88	19.48
Isle Royale.....	.....	.....	.....	1.24	1.20	1.20	3.54	2.17	4.56	1.96	0.30	.....	.....
Ivan.....	1.06	1.01	0.12	2.10	1.82	1.20	3.13	3.95	2.74	3.41	3.69	1.25	25.07
Jackson.....	.....	.....	.....	.....	2.07	2.31	2.31	3.90	2.10	1.68	1.49	.....	.....
Jeddo.....	2.57	1.44	0.74	4.04	2.21	1.26	4.76	1.95	2.54	1.77	2.34	2.80	28.42
Kalamazoo.....	1.77	1.30	0.35	3.30	5.44	1.39	3.47	2.59	2.21	3.73	1.93	1.66	30.44
Lansing (Agr. College).....	2.52	2.65	0.40	2.48	4.13	1.85	1.83	1.76	2.74	2.27	1.37	1.28	25.06
Lansing (State Capitol).....	2.52	1.31	0.55	3.18	4.06	1.48	1.14	1.85	2.96	2.61	1.47	1.41	24.54
Lapeer.....	1.23	1.19	0.31	5.71	3.54	2.27	5.02	2.32	2.15	1.60	.....	1.45	.....
Ludington.....	0.85	1.81	0.00	3.85	1.94	1.08	1.99	6.15	4.07	2.93	2.35	0.54	26.56
Luther.....	1.55	1.52	0.06	2.17	2.48	1.14	2.41	5.45	2.72	3.09	2.78	0.88	26.75
Mackinac Island.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.24	0.52	.....
Mackinaw.....	1.95	0.99	0.22	1.51	3.19	0.62	1.31	4.83	3.16	3.25	1.50	1.78	24.31
Mancelona.....	1.70	0.80	T.	0.39	0.92	0.27	2.28	2.59	2.81	3.89	4.37	2.60	22.62
Manistee.....	1.70	1.50	T.	4.03	2.10	0.73	2.82	3.80	4.56	3.62	4.34	0.80	30.00
Maple Ridge.....	1.10	2.10	0.30	3.05	2.38	1.81	1.96	5.67	2.84	3.48	2.97	1.20	28.86
Marquette.....	2.03	2.81	0.21	3.89	2.55	0.82	2.49	3.33	1.77	3.53	3.67	3.67	30.54
Menominee.....	0.88	1.23	0.10	3.03	1.79	0.91	1.12	4.57	4.47	2.91	1.75	1.25	24.01
Midland.....	.....	0.99	0.01	1.02	0.25	0.35	0.80	1.30	0.51	.....	.....	1.95	.....
Montague.....	.....	.....	0.00	2.34	3.15	0.88	.....	.....	.....	.....	.....	.....	.....
Morenci.....	2.36	1.65	0.08	4.50	2.33	1.68	3.89	0.98	3.86	1.76	2.09	1.24	26.67
Mount Clemens.....	2.08	1.22	0.15	3.08	3.35	0.90	2.04	1.86	3.41	1.44	2.26	2.89	24.68
Mount Pleasant.....	.....	.....	0.00	3.33	3.16	0.68	.....	1.99	2.46	1.14	.....	0.75	.....
Muskegon.....	3.00	1.67	T.	0.71	2.63	0.85	1.44	1.55	1.30	2.45	1.50	2.10	19.10
Newberry.....	0.50	.....	0.10	.....	.....	0.56	1.79	.....	.....	.....	.....	.....	.....
Old Mission.....	1.60	1.20	0.16	3.97	2.43	0.78	2.32	5.82	3.60	3.72	4.31	1.28	31.19
Olivet.....	2.35	1.59	0.76	3.37	5.17	3.10	1.88	5.76	2.24	2.81	1.26	1.86	32.14
Omer.....	0.90	1.65	T.	2.00	3.02	0.70	1.55	.....	.....	.....	.....	0.75	.....
Onaway.....	1.80	2.15	0.15	.....	.....	.....	.....	1.45	2.30	4.50	3.75	.....	.....
Ovid.....	.....	.....	.....	3.05	4.37	2.54	3.33	2.13	2.83	.....	.....	.....	.....
Owosso.....	1.96	1.35	1.00	0.93	0.58	0.80	3.67	2.68	2.24	3.79	1.76	2.40	23.16
Patskey.....	2.40	2.37	0.39	1.96	.....	.....	.....	3.95	1.47	1.50	0.88	.....	.....
Plymouth.....	1.24	1.50	T.	3.01	4.02	2.31	1.53	3.03	4.03	.....	1.76	1.45	.....
Pontiac.....	2.69	1.47	0.38	4.10	3.56	1.77	1.77	1.46	3.09	1.95	1.65	2.14	26.03
Port Huron.....	1.99	1.25	0.41	3.50	2.96	1.10	5.13	1.34	2.41	1.22	1.90	2.41	25.62
Powers.....	.....	1.48	0.10	.....	.....	T.	.....	.....	.....	.....	.....	0.80	.....
Reed City.....	1.05	1.43	0.05	.....	.....	0.55	.....	.....	.....	1.29	1.35	0.82	.....
Roscommon.....	2.05	0.80	T.	2.10	1.05	0.75	1.26	2.84	2.82	2.46	.....	.....	.....
Saginaw.....	2.40	1.65	0.17	3.42	4.30	1.34	0.46	2.77	1.81	2.37	1.97	2.15	24.81
Saginaw, W. S.....	1.31	1.23	0.22	4.47	4.03	1.75	1.01	2.98	1.96	2.83	1.93	1.42	24.64
Saint Ignace.....	2.49	1.13	0.33	2.47	2.63	0.85	1.33	3.33	2.44	4.19	2.24	1.19	25.17
Saint James.....	1.10	1.35	0.05	2.44	2.63	0.85	1.74	4.94	4.41	3.08	2.31	2.33	26.84
Saint Joseph.....	1.84	1.40	1.30	7.07	0.78	T.	4.85	3.86	2.32	2.55
Sandusky.....	1.01	2.77	0.38	4									

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MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Michigan—Continued.</i>													
Webberville.....	1.73	1.26	0.51	3.50	3.97	1.95	2.04	2.81	2.14	1.71	2.29	2.25	26.16
West Branch.....			T.		0.80	0.56			0.40				
Wetmore.....	3.20	1.50	0.30	2.35	1.50	1.05	0.80	1.60	1.11	2.40		2.03	
Whitefish Point.....	1.02	3.75	0.42	1.65	2.84	1.30	1.53	2.72	1.90	2.30	4.16	4.00	27.59
Woodlawn.....	2.55	1.70	0.65	2.03	2.23	2.50	2.58	5.42	4.94	3.42	4.64	2.95	35.98
Ypsilanti.....	2.68	2.44	0.30	3.98	3.95	1.50	3.26	2.39	4.15	1.35	2.32	2.13	30.45
<i>Minnesota.</i>													
Albert Lea.....	2.00	0.07	T.	0.70	2.50	0.66	1.40	3.85	2.25	1.40	0.40	0.20	15.43
Alexandria.....	0.47	0.90	0.07	3.03	1.07	1.65	3.78	3.08	1.98	1.47	0.38	0.48	13.36
Angus.....	0.10	0.12	0.76	0.98	0.71	0.43	1.54	1.39	2.44	0.39	0.45	0.36	9.67
Bagley.....	0.26	0.48	0.59	2.23	1.31	1.41	1.94	0.71	2.78	0.69	0.87	0.42	13.69
Baudette.....	0.16	0.35	0.96	1.78	1.26	1.33	1.37	1.06	1.58				
Beardsley.....		0.65	0.06	1.93	0.39	2.33	0.57	2.98	0.81	1.24	0.37		
Beaulieu.....	0.15	0.15	0.55	1.86	1.41	0.81							
Bird Island.....	0.47	0.45	0.13	1.00	1.54	1.94	1.69	2.97	1.23	1.00	0.35	0.10	12.87
Caledonia.....		0.10	0.00	2.26	1.87	0.55	1.59	4.02	3.13	0.65	0.44	0.77	
Campbell.....	0.90	1.45	0.35	2.07	0.52	3.30	0.65	1.25	2.33				
Cass Lake.....	0.25	0.70	0.15	2.15	1.30	0.15	2.50	0.40	3.45	1.65	1.30	0.42	14.42
Collegeville.....	0.69	0.34	0.11	1.64	1.39	1.67	0.77	2.20	1.75	0.52	0.23	0.15	11.46
Crookston.....	0.12	0.45	0.72	2.18	0.90	0.62	1.18	1.42	2.60	0.45	0.45	0.40	11.25
Detroit.....	0.49	0.19	0.79	2.23	1.45	1.97	1.83	3.85	2.35	0.69	0.65	0.56	13.41
Duluth.....	0.80	1.13	0.44	1.40	1.18	0.11	3.89	2.41	4.20	0.81	1.18	0.56	18.11
Fairmont (near).....	2.50	0.13	0.09	0.65	2.25	3.93	1.64	1.95	2.81	0.82	0.33	0.10	17.20
Faribault.....	0.50	0.06	0.25	0.58	1.62	0.39	2.27	1.97	1.62	0.68	0.57	0.30	10.81
Farmington.....	0.85	0.15	0.04	0.55	1.54	0.43	2.65	2.03	1.66	1.67	0.50	0.28	12.35
Fergus Falls.....	0.92	0.85	0.20	2.14	0.63	1.14	1.88	0.78	2.84	1.47	0.36	0.83	14.05
Floodwood.....	0.20			1.21	1.86	0.13	3.67		4.10	1.35	0.87	0.82	
Fort Ripley.....	0.50	1.40	0.10	1.64	0.95	1.87	1.86	2.31	2.60	0.66	0.11	0.41	14.41
Fosston.....	0.31	0.22	1.77	1.58	0.87	0.59	1.72	0.95	1.74	0.53	0.74	0.38	11.40
Fram.....							0.91	0.88	2.51	1.36	0.42		
Glencoe.....	1.52	0.27	T.	1.36	2.15	1.63	1.00	1.92	1.22	1.06	0.20	0.27	12.60
Grand Meadow.....	2.17	0.17	T.	0.43	3.70	0.05	0.76	3.53	4.43	0.83	0.44	0.40	16.91
Hallock.....	0.10	0.37	1.80	1.88	1.45	1.07	0.50	2.64	3.20	1.75	0.42	0.67	16.15
Halsstad.....	0.09	0.23	0.84	1.25	0.75	0.88	1.57	0.92	1.82	1.06	0.40	0.26	10.07
Hickley.....	0.50	0.60	T.	0.52	0.45	1.94	1.19	3.66	1.96	1.26	1.12	0.80	14.00
International Falls.....	0.50	0.60		2.38	1.32	1.63	2.12	1.20	2.47	3.47	1.45	1.30	
Kelliher.....	0.20					1.29	2.15	0.55	2.28	1.87	0.52	1.02	
Lake Crystal.....	1.77	0.14	0.01	0.32		1.95	1.78	4.48	2.08	0.53	0.23	0.20	
Leech Lake Dam.....	0.45	0.56	0.29	2.22	1.53	0.96	4.03	0.66	3.91	1.53	0.89	0.71	17.74
Littlefork.....				2.73	0.67	1.15	2.24	1.34	2.10	3.33	1.29	0.58	
Long Prairie.....	1.00	1.04	0.13	1.68	0.97	0.55	0.77	0.38	1.75	0.55	0.15	0.40	9.37
Lynd.....	1.22	0.24	0.08	1.69	2.24	6.10	1.76	2.84	1.54	1.28	0.40	0.03	19.42
Mankato.....	0.96	0.06	T.	0.68	1.24	1.93	1.60	4.40	2.23	0.74	0.36	0.32	14.57
Maple Plain.....	1.44	0.74								0.55	0.49		
Milaca.....	0.51	0.86	T.		1.30	1.15	1.29	2.80	2.06	0.40	0.42		
Milan.....	1.25	1.12	0.13	2.30	1.78	1.57	1.58	4.03	1.67	0.79	0.62	0.13	16.95
Minnesota (Weather Bu.).....	1.08	0.51	0.09	0.64	1.39	1.24	0.74	1.56	2.58	0.86	0.59	0.31	11.59
Minneapolis (Aschenbeck).....	1.05	0.37	0.11	0.79	1.44	1.27	0.90	2.05	2.86	0.97	0.62	0.31	12.74
Montevideo.....	0.84	0.37	0.13	2.75	1.69	1.84	2.29	4.65	1.25	0.77	0.34	0.11	16.53
Moorhead.....	0.52	0.52	0.36	1.92	0.92	0.83	0.83	1.39	1.75	0.55	0.49	0.42	10.50
Mora.....	0.99	0.93	0.09	0.71	1.05	1.68	2.61	1.91	1.97	0.67	0.59	0.66	13.86
Morris.....	0.72	0.30	0.43	2.33	1.16	2.98	1.22	3.44	1.16	0.92	0.20	0.55	15.46
Mount Iron ¹	0.45	0.79	0.16	2.67	1.41	0.35	4.60	1.04	3.83	1.41	1.07	0.61	18.39
New London.....	0.68	1.04	0.10	2.06	1.50	2.89	1.21	2.46	0.90	0.77	0.22	0.17	14.00
New Richland.....	1.40	0.12	0.10	1.09	1.79	0.48	1.46	5.22	2.39	0.88	0.46	0.21	15.60
New Ulm.....	2.60	0.21	0.10	1.05	2.61	2.21	1.53	5.97	2.48	0.59	0.30	0.20	19.25
Osakis.....	0.81	0.70	0.07	4.06	1.28	1.40	2.65	2.89	1.60	0.80	0.22	0.37	16.85
Park Rapids.....	0.60	0.47	0.18	2.79	0.75	0.70	1.59	0.68	3.21	1.93	0.80	0.65	14.35
Pine River Dam.....	0.25	0.50	0.15	1.98	1.60	1.35	3.68	1.86	4.15	0.60	0.05	0.54	16.71
Prestona.....	1.68	0.35	0.04	1.20	1.41	2.33	2.57	2.07	2.10	0.75	T.	0.08	14.28
Pokegama Falls.....	0.32	0.61	0.29	1.49	2.20	1.68	5.76	2.36	3.93	0.51	0.89	1.21	21.25
Red Lake.....	0.18	0.44	1.06	2.51	0.61	1.06	3.18	0.42	1.41	0.83	1.08	0.48	13.26
Red Wing (state school).....					1.85	0.55	1.13	2.32	1.82	0.40			
Red Wing (River).....	0.93	0.14	0.04	0.86	2.42	0.44	1.90	2.52	1.94	0.72	0.80	0.57	13.28
Redwood Falls.....	1.65	0.65	0.07	1.03	3.30	3.24	1.48	3.62	0.99	1.05	3.58	0.25	17.91
Reeds Landing.....	0.86	0.09	T.	0.72	2.93	0.14	1.84	3.74	2.08	0.59	0.44	0.29	13.72
Rochester.....	1.65	0.05	T.	0.77	2.35	T.	0.84	2.94	1.98	0.42	0.20	0.45	11.65
Roseau.....	T.	0.40		2.27	1.21	2.18	1.16	2.64	1.95	1.52	0.70	0.83	16.32
St. Charles.....	1.10	0.25	T.	0.84	2.81	0.08	1.32	5.68	2.63	0.46	0.34	0.32	15.83
St. Cloud.....	0.65	0.46	0.18	1.52	1.90	1.85	0.63	3.90	2.53	0.47	0.31	0.24	14.64
St. Paul.....	1.10	0.42	0.16	0.59	1.75	0.91	0.99	0.98	1.77	0.75	0.48	0.30	10.21
St. Peter.....	1.36	T.	0.08	0.73	1.33	1.18	1.06	3.03		0.24	0.09		
Sandy Lake Dam.....	1.40	1.40	0.60		1.85	1.60	4.01	1.52	3.75	0.85	0.34	0.29	
State Sanatorium.....	0.46	0.74	0.34	2.90	1.08	0.86	2.54	0.92	3.13	1.35	0.77	0.64	15.73
Stephens Mine.....	0.33	0.50	0.24	1.38	2.17	0.45	5.29	1.45	3.37	1.12	1.03	0.45	17.78
Stillwater.....	0.90	0.47	0.22	0.58	1.86	0.67	1.18	0.92	2.16	0.64	0.37	0.58	10.55
Taylor Falls.....	0.62	0.61	T.	0.71	1.12	2.70	2.39	2.00	1.68	1.24	0.29	0.70	14.06
Two Harbors.....	0.40	0.94	0.40	1.50	1.30	1.56	4.30	2.00	3.30	0.75	0.72	0.56	17.73
Warroad.....	0.06	0.38	0.86	1.51	3.44	1.67	1.57	2.25	3.24	1.69	0.78	0.86	18.07
West Concord.....	1.30	T.	0.00	1.60	1.98	0.04	0.92	3.63	2.90	0.12	0.30	0.30	13.09
Windom.....	1.21	0.15	0.11	0.77	1.30	2.90	1.34	1.86	3.58	0.79	0.11	0.04	14.25
Winnebago.....	0.42	0.15	0.07	0.69	1.72	2.61	1.93	3.75	2.15	0.30	0.19	0.20	15.40
Waubesa.....	0.42	0.57	0.23	2.10	1.90	0.84	3.39	0.53	4.10	1.10	1.07	0.91	17.16
Waubesa (Goshish).....	1.07	0.14	0.02	1.20	2.98	0.25	0.62	4.24	3.94	0.87	0.44	0.43	16.20
Wisnau.....	0.75	T.	0.08	0.88	1.74	3.23	1.89	1.91	2.90	0.98	0.08	0.05	14.49
Worthington.....	0.87	T.	0.02	0.40	2.25	0.12	1.14	3.04	3.92	0.66			

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Mississippi—Continued.</i>													
Big Creek										4.95	1.07	3.65	
Blount	3.09	8.49	1.50	0.75	2.00	4.29	8.76	6.45	4.47	6.04	1.15	3.37	50.26
Booneville	5.29	4.71	0.18	3.55	3.47	5.05	9.85	0.61	1.26	3.52	0.74	4.20	42.03
Brookhaven	3.31	4.63	0.65	5.96	6.06	8.74	5.37	1.89	3.87	2.67	4.24	3.63	50.82
Byhalia	5.11	4.63	0.34	8.05	4.18	3.87	5.44	3.38	1.43	3.88	1.60	3.58	45.46
Canton	2.54	4.80	0.56	3.31	3.12	4.14	5.28	1.29	0.40	4.12	2.71	3.45	35.75
Charleston				5.09	5.95	5.77	12.61	4.86	0.06	4.00	0.70	3.97	
Clarksdale				3.95	5.25	7.12	12.17	3.81	0.22	3.88	0.84	3.08	
Coffeeville		4.98	0.53	4.48	5.44	3.03	11.90	2.48	0.59	4.67	0.68	4.47	
Columbia	4.00	3.66	0.38	3.20	7.40	5.64	7.44	2.34	3.54	3.32	4.00	3.8	48.30
Columbus	2.90	3.27	0.81	2.94	1.66	6.92	5.10	4.06	0.75	3.54	1.68	2.96	36.59
Corinth	4.22	3.73	0.24	4.02	5.74	3.31	4.88	1.23	2.50	4.65	1.74	3.76	40.02
Crenshaw	5.45	4.88	0.53	5.15	4.96	8.23	10.77	3.21	0.27	3.29	0.64	3.05	50.43
Crystal Springs	3.71	5.49	1.04	4.82	3.97	4.56	7.54	2.15	3.38	4.37	3.53	3.89	48.98
Denmark	4.74	5.21		4.80	5.34	6.25	10.08	3.57	1.92	5.05	1.01	4.81	
Duck Hill	6.23	6.66	0.30	3.06	3.94	7.23	8.33	4.33	0.67	6.30	0.90	3.79	51.74
Edinburg	3.60	5.40	0.47	4.25	3.69	4.28	1.40	5.85	0.74	3.31	1.86	3.94	38.79
Edwards	3.90	5.30	0.84	5.16	3.74	5.68	3.88	2.53	2.07	3.96	3.16	3.52	43.74
Enid	5.05			5.09	6.90	6.15	8.99	4.39	T	3.48	0.63	3.66	
Enterprise	3.14	5.56	0.92	2.11	3.88	7.01	6.61	3.80	2.31	1.77	4.32	4.62	46.05
Fayette	4.73	5.20	0.42	3.97	8.22	8.33	4.99	3.41	3.52	3.62	4.53	3.41	54.33
Fulton	4.76	6.53	0.36	2.72	4.41	5.78	8.76	3.22	2.96	2.71	1.89	3.94	47.84
Greenville	6.58	4.48	0.20	3.06	6.08	5.77	5.26	6.22	0.02	4.46	0.70	4.67	47.50
Greenwood	5.63	6.39	0.38	3.80	8.14	3.66	6.33	4.47	0.28	5.22	0.74	3.88	45.42
Grenada	3.31	5.73	0.38	5.07	5.29	3.86	8.73	6.06	0.22	3.50	0.96	3.32	40.73
Hattiesburg	2.08	5.68	0.94	0.80	7.52	7.68				1.98	1.98	2.06	
Hazlehurst	3.04	5.13	0.53	5.37	5.40	6.03	4.59	2.70	6.74	5.45	5.53	4.28	55.39
Hernando	4.60	4.70	0.78	8.46	4.49	5.62	8.07	1.66	0.60	3.23	1.18	2.74	46.22
Hickory						5.80	4.65			3.15	3.64	4.50	
Hickory Flat	4.22	4.20	0.15	5.08	4.07	4.59	5.02	2.61	1.04	3.41	0.87	3.90	39.16
Holly Springs	5.14	4.57	0.42	4.91	4.74	3.47	3.24	2.64	1.05	2.42	2.25	3.57	38.42
Jackson	3.38	4.41	1.71	5.20	4.04	6.32	4.77	1.98	1.69	2.98	2.12	3.69	41.89
Kosciusko	4.11	5.37	0.32	3.12	3.46	7.37	8.78	2.20	0.51	4.17	1.47	3.21	44.09
Lake	2.12	5.74	0.57	6.59	3.26	7.07	2.41	0.96	2.20	3.33	2.57	4.77	41.69
Lake Como	1.50		1.75	2.16	3.90	9.74	5.92	1.00	1.05		1.76		
Lake Cormorant	4.92	5.88	0.38	7.75	3.82	7.44	4.56	1.91	0.30	5.94	1.44	3.90	48.54
Laurel	3.02	8.85	0.85	1.80	6.19	8.53	4.17	2.02	2.26	3.61	5.57	5.19	47.05
Leakesville	5.61	5.58	1.28	3.06	6.39	10.51	6.74	2.68	1.89	3.54	3.46	4.83	55.57
Louisville	3.45	5.09	0.23	3.04	2.20	5.41	5.95	4.11	1.08	2.82	1.03	3.14	37.55
Lula	5.10	3.75	1.19	5.02	5.87	6.00	8.32	1.96		4.89	0.30	2.70	
McNeill	2.64	5.13	0.97	0.42	4.67	10.09	10.75	3.06	3.11	4.17	1.87	3.65	50.60
Macon	2.00	5.66	0.48	3.90	2.95	6.19	5.59	1.78	1.19	2.83	0.73	3.09	36.99
Magnolia	2.67	3.46	0.91	2.45	4.99	8.52	6.54	3.42	2.00	2.19	3.21	3.30	43.66
Malone	5.75			4.55				3.00	0.47	3.78	0.95	3.87	
Marks					6.14	6.57	11.96	3.26	0.35	3.28	0.90	2.88	
Meridian	2.84	5.62	0.86	2.26	3.26	6.77	7.34	3.37	0.83	2.80	2.81	4.00	43.30
Merrill	3.36	3.95	1.00	1.02	3.56	11.62	9.12	2.84	2.48	3.28	2.64	4.45	51.33
Monticello	2.77	4.66		5.87	8.35	9.93	0.01	1.40	1.36	4.59	4.44	3.56	
Natchez	4.85	4.80	0.83	3.71	11.64	5.21	6.47	3.45	1.03	2.61	4.19	3.71	52.50
New Albany	4.60	4.68	0.47	4.12	5.08	6.42	6.91	1.63	0.44	4.07	1.08	4.25	43.75
Okolona	4.68	5.75	0.37	2.35	4.59	8.03	9.70	3.87	0.47	2.18	0.73	3.75	46.47
Pascagoula		6.42	3.32	2.75					8.24	5.82	1.52	3.71	
Paintington	3.25	3.72	1.93	1.29	3.46	7.53	10.16	9.96	5.61	3.88	0.82	3.56	55.17
Pontotoc	5.22	4.84	0.57	2.97	4.79	7.57	9.64	2.23	0.50	3.01	1.10	3.80	46.54
Porterville	3.31	6.72	1.15	2.81	1.85	9.89	3.05	1.31	4.86	2.47	2.30	3.48	43.90
Port Gibson	4.41	6.03	3.27	5.96	4.61	8.31	2.44	2.70	2.11	3.14	3.32	3.41	49.61
Rosedale	5.25		1.00	7.00	5.99	3.72	8.08	1.44	0.87	6.02	0.58	3.71	
Senatobia	5.05	5.27	0.88	7.03	5.89	4.78	7.38	2.42	1.22	4.18	0.97	3.15	47.09
Shoepoe	3.32	4.02	0.56	3.62	3.57	6.93	5.59	3.51	1.04	4.11	2.63	3.72	43.52
Shubuta	5.04	4.12	0.38	1.84	5.92	7.38	4.52	1.95	2.76	2.58	4.00	4.18	44.70
Suffolk	3.76	5.24	0.32	3.15	8.89	4.96	7.80	2.94	3.68	4.41	4.19	4.15	53.39
Swan Lake	5.12	5.17	1.20	5.72	6.63	4.37	8.07			3.09	0.20	2.80	
Tehula	5.75	7.70	1.05	3.23	0.82	4.35	6.83	3.90	0.35	5.90	1.35	3.92	51.15
University			0.44	4.95			11.71	2.89	1.30	3.59	1.50	4.02	
Utica	3.20	5.29	2.09	4.13	5.45	4.47	6.12	3.16	4.20	2.52	3.04	4.04	47.71
Vicksburg	3.85	5.40	0.53	3.97	3.29	3.82	5.27	1.36	2.51	2.95	2.97	4.09	40.01
Water Valley	5.10	3.47	0.53	3.83	5.22	8.38	10.27	3.23	0.90	4.56	1.38	3.45	50.41
Waynesboro	3.93	4.33	1.23	2.10	5.59	6.41	5.25	3.05	3.59	2.98	3.65	5.29	45.08
Woodland	3.92	5.98	0.95	2.78	5.96	6.67	7.88	2.23	0.77	3.95	1.36	3.21	45.07
Woodville	4.79	3.57	0.20	5.67	5.88	9.37	9.29	4.64	3.64	1.79	3.01	5.39	56.98
Yazoo City	5.54	5.84	0.26	3.27	4.27	5.88	5.25	8.92	0.44	6.45	3.08	3.88	53.09
<i>Missouri.</i>													
Albany	1.25	0.35											
Ameret	0.94	0.95	0.41	4.31	7.18	2.19	3.42	2.03	6.48	1.11	0.15	0.92	80.06
Appleton City	0.75	1.98	0.53	3.57	8.99	2.21	4.12	2.14	6.98	0.90	0.19	0.88	33.24
Arlington	2.29	5.18	0.30	2.58	6.90	4.04	8.52						
Arthur	1.97	1.50	0.50	2.87	6.79	2.26	2.59	2.34	9.00	1.14	0.08	0.66	31.70
Avalon	2.14	0.80	0.05	2.56	9.28	3.73	4.73	2.52	6.00	0.20	0.27	1.38	33.66
Bagnell		2.60	0.50	5.38	8.98	6.92	4.88						
Belle	0.43	3.25	0.02	2.20	4.97	5.95	5.95		3.13	3.50	0.47	0.70	
Bethany	1.54	0.86	T	1.51	4.90	1.43	1.61	4.10			0.25	1.49	
Birchtree	1.21	3.16	3.17	5.74	4.08	6.42	10.54	2.08	3.27	4.66	0.78	2.34	47.45
Bolivar	1.57	2.19	1.86	3.59	8.24	4.90	4.97	10.07	3.39	3.05	0.19	1.08	45.70
Boonville	2.36	1.72	0.64	3.04	6.70	8.28	4.20	2.78	9.52	0.62	0.29	1.32	41.40
Brunswick	1.93	1.27	0.47	3.32	7.80	3.55	6.15	2.26	6.97	0.48	0.27	1.37	35.84
Cape Girardeau	0.65	1.92		4.40	2.20	4.43	9.34						
Caruthersville	3.30	4.62	1.66	6.26	2.03	2.92	4.30	2.12	2.95	11.36	0.55	5.38	47.46
Clinton	2.05												

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MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Missouri—Continued.</i>													
Farmington.....	2.14	0.40	0.25	3.29									
Fayette.....	1.93	0.00	0.56	2.57	7.64	5.16	6.58	2.87	11.15	0.41	0.31	1.37	41.15
Fulton.....	2.93	1.22	0.47	3.37	6.98	6.52	5.65	4.37	11.32	1.27	0.44		
Gano.....	1.82	3.79	0.68	2.98	5.11	5.15	4.91	1.45	5.20	4.43	0.32	1.59	27.43
Glasgow.....	1.68	0.77	0.52	4.57	6.07	3.59	4.67	1.57	7.91	0.44	0.03	1.59	33.39
Grant City.....	1.20	0.50	0.09	1.70	0.18	0.96	0.50	6.22	3.47	1.52	0.36		23.29
Greenville.....	2.12	4.43	1.64	4.47	4.12	2.62	11.45	2.04	3.71				2.29
Goodland.....	1.69	4.94	0.69	6.06	5.51	3.98	7.31	1.76	4.57	4.34	0.75	1.93	44.46
Gorin.....	2.12	0.89	0.49	3.72	6.19	1.35	0.08	2.03	2.70	0.60	0.41	0.82	27.26
Hannibal.....	1.98	0.65	0.15	2.00	6.58	4.39	9.32	1.64	5.37	1.14	0.13	0.75	34.70
Harrisonville.....	2.65	0.70	0.62	4.29	8.43	2.20	1.75	3.20	7.74	0.55	0.25	1.51	33.89
Hazelhurst.....	1.80	1.01	0.05	2.32	7.77	3.85	3.60	2.43	3.61	0.37	0.23	0.97	28.01
Hermann.....	2.80	1.84	0.34	2.56	6.78	3.53	8.62	3.85	9.22	3.32	0.38	0.67	43.91
Hollister.....	0.84	2.00	1.10	1.30	4.15								
Houston.....	1.15	3.65	1.71	3.05	3.01	4.09	8.63	1.88	3.50	3.83	0.50	2.10	37.10
Huntsville.....		0.55	0.65			9.50	2.90						
Ironton.....	1.44	3.89	0.40	3.81	5.28	3.62	7.99	4.57	4.87	5.12	0.93	2.25	44.17
Jackson.....	0.97	3.14	0.16	4.26	2.57	2.62	10.53	3.32	2.16	7.98	0.35	2.24	40.10
Jefferson City.....	2.06	0.93	0.28	3.12	8.63	4.98	7.00	1.84	5.82	1.33	0.70	0.57	37.36
Joplin.....	2.45	1.67	1.07	3.57	7.19	3.94	3.07	2.15	3.10	2.00	0.00	0.48	30.69
Kansas City.....	2.06	0.70	0.08	2.35	10.92	5.45	2.99	5.00	5.92	0.33	0.28	1.25	37.42
Kidder.....	1.67	1.11	0.02	1.83	8.14	2.12	1.60	1.23	4.41	0.33	0.22	0.90	23.58
Koshkonong.....	1.34	3.20	0.98	6.33	3.17	9.01	12.29	2.29	4.96	4.33	0.68	2.84	52.42
Lamar.....	1.67	1.69	1.00	4.61	7.99	4.04	4.85	8.80	6.00	1.51	0.10	0.59	42.85
Lanoute.....	2.14	1.29	0.80	4.93	8.70	6.61	4.84	1.81	9.66	0.59	0.17	1.56	43.10
Lebanon.....	1.73	2.95	1.51	2.82	5.81	6.28	5.31	4.70	7.11	3.60	0.35	1.88	44.05
Lexington.....	1.72	0.92	0.08	4.17	10.05	5.06	4.29	2.25	7.56	0.33	0.13	1.24	37.80
Liberty.....	2.22	0.41	T.	1.66	10.19	7.15	4.72	3.74	5.15	0.18	0.36	1.40	37.18
Lockwood.....	1.70	1.82	1.67	2.46	9.30	4.32	5.27	3.65	2.29	1.29	0.08	1.33	34.08
Louisiana.....	1.97	1.56	0.20	2.82	7.34	1.92	10.92	1.85	6.67	1.08	1.07	0.84	38.44
Marble Hill.....	1.99	4.73	0.90	3.91	3.12			2.05	2.35	7.53	0.44	3.95	
Marshall.....	2.79	0.73	0.60	4.58	9.29	6.09	8.59	1.78	10.49	0.62	0.26	1.97	47.81
Marshfield.....	2.00	1.38	0.92	2.91	4.87	5.08	6.01	3.49	6.18	3.21	0.20	1.85	38.10
Maryville.....	1.33	0.07	0.29	1.37	6.37	3.19	0.88	1.62	3.97	2.21	0.19	0.56	22.05
Mexico.....	2.70	0.93	0.45	3.29	8.48	4.21	0.30	1.96	11.41	1.22	0.22	0.43	41.66
Mountaingrove.....	0.85	2.49	1.79	2.72	3.51	4.85	8.49	3.12	5.13	3.57	0.38	1.58	38.48
Mount Vernon.....	1.05	2.76						3.30	3.70	3.02	0.05	1.80	
Neosho.....	1.89	3.81	1.68	2.73	6.50	8.14	3.13	6.21	2.68	2.89	0.13	0.68	40.47
Nevada.....	1.80	2.77	0.74	4.95	6.62	4.70	2.94	3.66	6.41	1.36	0.10	0.64	36.69
New Madrid.....	2.38	3.41	1.93	5.03	2.73	5.79	5.60	2.79	2.11	14.03	0.67	5.27	51.74
New Palestine.....	2.21	2.19											
Oakfield.....	2.61	3.18	0.22	3.44	8.11	4.46	8.91	3.03	5.90	3.91	0.96	1.21	43.34
Olden.....	1.21	4.02	2.01	4.10	2.08	4.70	12.69	1.21	7.98	4.32	0.15	2.53	47.02
Oregon.....	1.93	0.34	T.	1.42	7.41	2.66	0.47	1.65	4.28	0.38	0.20	0.67	21.41
Oseola.....	1.89	1.95	1.20	3.27	8.60	4.58	3.19	2.82	7.05				
Patonsburg.....			T.	2.25	7.68	1.50	1.89	1.39	4.44	0.25	0.24	0.72	
Perryville.....	2.08	2.45	0.00	2.75	2.31		8.46	1.94	0.88	6.15	0.20	1.90	
Rolla.....	2.18	3.28	0.30	2.50	7.51	8.26	4.81	3.80	4.92	2.35	0.32	1.60	41.83
St. Charles.....	2.51	3.29	0.13	3.59	6.33	5.22	7.27	2.83	6.41	4.73	0.14	1.08	43.53
St. Joseph.....	1.67	0.50	T.	1.82	6.60	2.48	0.33	2.00	6.09	0.42	0.20	1.12	23.23
St. Louis.....	2.73	3.22	0.14	4.09	5.23	4.24	4.21	1.90	6.09	3.98	0.30	1.18	37.31
Sikeston.....	3.98	3.55	2.70	0.10	4.22	4.65	7.58	3.61	1.56	12.02			
Springfield.....	0.98	2.24	1.60	2.52	5.46	2.56	4.25	4.65	4.85	3.08	0.14	0.86	33.19
Steffenville.....	2.40	1.06	0.50	5.18	8.58	1.41	12.03	2.73	4.70	1.65	0.85	0.90	41.98
Steelville.....	0.37	1.29	0.15		5.40	4.56	4.80	3.64	6.08	3.31	0.29	0.91	
Sublett.....	0.45	0.20	0.10	2.55	8.85	3.10	10.85	2.50	5.40	T.		0.50	35.50
Trenton.....	1.55	1.12	0.60	2.11	10.31	2.75	3.14	3.14	4.49	0.26	0.36	1.03	26.27
Unionville.....	2.52	0.79	0.10	4.32	7.46	1.18	4.56	1.71	4.82	0.34	0.96	0.70	29.00
Warrensburg.....	2.07	0.82	0.29	4.78	5.74	3.98	4.05	2.35	8.73	0.46	0.15	0.96	34.38
Warrenton.....	2.81	2.42	0.30	3.21	6.56	4.22	6.44	2.48	7.45	3.63	0.79	0.73	41.06
Warsaw.....	2.03	2.46	0.91	3.38	8.71	5.78	4.63	2.20	9.70	0.99	0.75	1.38	42.85
Wheatland.....	1.81	2.73	1.34	4.24	7.27	2.95	1.96	2.23	5.93	2.70	0.35	0.20	33.71
<i>Montana.</i>													
Adams.....	T.	0.70	1.51	1.07	1.67	1.19	1.15	1.17	0.41	0.14	0.19	T.	9.20
Adel.....	1.30	2.16	0.23	2.81	3.76	2.12	1.04	3.11	4.79	1.16	2.03	0.20	24.70
Agricultural College.....	0.82	0.82	0.62	1.86	2.72	1.35	0.73	1.46	3.51	2.74	1.70	0.41	18.74
Anaconda.....	0.77	1.53	0.38	0.35	1.78	1.04	0.84	0.55	1.93	1.31	2.22	0.25	12.95
Augusta.....	0.26	0.77	T.	0.09	1.05	1.49	1.20	1.27	3.21	0.39	1.07	0.20	11.00
Babb.....	0.70	2.74	1.69	1.57	1.72	1.65	0.62	1.52	4.32	0.66	0.78	0.01	17.98
Baldbutte.....	0.70	2.27	0.41	0.46	2.83	1.85	1.13	0.79	2.86	1.66	2.60	0.59	18.15
Big Creek.....	1.53	1.30	0.70	1.50	2.85	0.89							
Big Timber.....			0.66	1.37	1.60	0.95	1.05	3.26	0.93	0.70	0.10		
Big Timber Creek.....	0.73	1.76	0.46	0.80	2.79	1.74	0.87	0.83	3.55	1.44	1.48	0.17	16.62
Billings.....	0.37	0.06	0.04	1.48	1.48	0.50	0.65	1.28	1.85	1.34	0.95	1.20	11.21
Bison Mountain.....	1.39	4.74	0.74	0.83	2.91	2.33	0.56	1.03	2.61	2.31	3.30	0.88	23.83
Boulder Nursery.....		0.70	T.	1.24	2.49	1.08	0.58	1.19	4.27	1.18			
Borzon.....	0.89	1.06	0.81	0.25	1.51	0.48	0.67	0.03	1.08	0.73	2.25	0.54	10.10
Bridger.....	0.25	0.05	0.11	0.60	2.23	0.33	0.23	0.27	2.20	2.02	0.33	0.09	8.71
Broadview.....	0.85	1.01	0.25	1.80	1.19	1.56	1.12	0.91	2.98	0.74	0.18	0.35	12.94
Busby.....	0.65	0.34	0.53	1.44	2.62	1.08	1.20	0.54	3.04	1.08	1.33	0.41	14.16
Busteed.....	0.95	0.63	0.06	1.09	1.66	1.05	0.75	1.15	3.56	1.11	0.62	0.45	12.98
Butte.....	0.70	0.95	0.75	0.20	1.65	1.75	0.50	0.77	2.20	1.35	1.62	0.30	12.74
Cabin Creek.....	0.60	0.10		1.81	1.84	0.27	0.67	0.27	0.28	0.65	0.95	0.37	
Canyon Ferry.....	0.54	0.27	0.05	0.92	2.82	2.95	0.80	1.32	1.66	0.95	0.91	0.06	13.25
Cascade.....	0.59	1.13	0.14	0.70	1.47	1.88	1.01	0.67	4.24	0.87	1.15	0.18	14.01
Cheesman Reservoir.....	1.12	1.44	0.10	0.83	2.25	2.68	1.05	1.74	3.62	1.75	2.09	0.2	

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Montana—Continued.</i>													
Crow Agency	1.02	0.44	0.46				0.48	0.61	1.67	1.32	2.21	1.00	.....
Culbertson	0.40	0.70		0.13	1.40	1.94					0.23	0.05	.....
Cut Bank	T.	0.61	T.	T.	1.42	1.73	0.54	0.60	0.87	0.14	0.08	0.08	6.07
Dayton				1.80	1.78	0.73	0.30	1.06	1.20				.....
Decker	0.20	0.40	0.50	0.72	2.17	1.36	0.77	0.54		0.80	0.40	0.20	.....
Delpine	0.47	0.46	0.05										.....
Denton				1.44	2.34				1.74	0.65	0.55	0.44	.....
Dillon	1.19	1.69	0.31	0.48	2.77	1.17	0.35	0.11	3.21	1.09	1.59	0.27	14.23
Dirty Creek	0.76	0.86	T.	1.06	2.18	1.90	0.74	0.99	2.83	1.09	1.47	0.47	14.35
Dry Creek	3.42		0.95	3.46	3.75	1.67	0.68	0.99	5.04	1.87	4.35	0.21	.....
Dry Wolf Camp	1.00	1.89	0.08	2.28	3.95	3.48	1.14	1.24	2.46	2.73	1.62	0.80	22.67
East Anaconda	0.47	1.55	0.26	0.50	1.78	1.18	0.84	0.44	1.68	1.26	2.37	0.22	12.55
East Gallatin River	0.96	1.11	0.52	2.07	3.41	1.42	0.83	1.62	3.33	2.37	2.45	0.73	20.82
Ekalaka	0.43	0.50	0.90	0.84	1.19	2.37	0.02	2.63	3.71	0.27	0.15	0.15	18.16
Elkhorn	0.88	0.92	0.22	1.42	3.29	2.24	0.81	0.85	3.87	1.17	1.32	0.27	17.26
Fallon	0.29	0.90	1.10	1.10	2.53	2.53	1.39	1.17	0.54	0.13	0.86	0.32	12.66
Family	0.62	0.61	0.02	T.	2.14	1.77	0.22	0.60	1.57	0.51	0.22	0.01	7.49
Fish Creek	0.95	1.78	1.40	1.48	4.24	2.60	1.04	0.63	2.47	1.37	2.26	0.47	20.69
Fishtail Creek	0.61	0.34	0.03	1.31	3.21	0.31	0.96	0.61					.....
Flathead Creek	1.32	2.08	0.87	4.38	4.67	1.69	1.06	1.32	4.79	2.64	4.65	1.25	30.72
Forsyth	0.75	0.40	0.22	1.73	2.80	2.01	0.35	0.65	2.51	0.28	0.43	0.20	12.33
Fort Benton	0.44	0.32	0.00	0.95	1.95		0.75	0.34	1.96	0.56	1.13	0.35	.....
Fortine	1.70	1.45	0.56	0.72	1.66	0.64	0.36	0.68	2.36	1.44	1.67	0.88	14.12
Fort Shaw	0.05	2.52	T.	0.02	1.35	1.97	1.66	0.25	2.84	0.50	0.35	T.	11.51
Foster	0.35	0.09	0.26		1.91	0.63	0.37	0.53	2.19	0.83	0.81	0.42	.....
Farnell	0.42	0.78	0.26	3.70	8.60	4.38	0.97	1.08	4.61	0.79	1.05	0.32	26.96
Gandiva	0.20	0.43	0.85	1.90	1.10	2.03	1.74	4.17	0.36				.....
Goldbutte	0.24	0.39	0.09	0.42	1.57	2.00	1.15	0.16	0.78		0.16	0.11	7.36
Graham	0.61	0.10	0.22	0.45	1.62	2.22	0.78	0.89	1.98	1.17	0.41	0.28	10.51
Grayling	2.85	0.56	0.13	0.76		0.29	1.16	0.24			1.92	1.07	.....
Great Falls	0.36	0.99	0.27	1.19	1.84	3.04	1.33	0.25	3.37	1.67	1.39	0.20	15.88
Half Moon Pass	0.61	0.40	0.09	1.75	4.01	8.61	1.21	2.65	5.60	1.94	2.38	2.16	31.81
Half Way House	3.05	2.88	0.57	2.44	3.16	2.16	0.79	0.60	3.33	1.53	2.57	1.60	24.66
Hamilton	0.93	2.24	0.74	0.20	1.19	0.59	1.05	0.80	3.35	1.26	2.11	0.49	14.95
Harlowton			0.60	0.70	2.04		0.67	0.64	4.01	0.54		T.	.....
Hassel	0.35	0.41	T.	0.59	1.91	2.86			2.65	2.74	2.38	0.40	19.11
Hat Creek	0.70	1.51	0.77	1.07	2.22	2.75	1.08	0.84	0.45	2.74	2.38	0.40	19.11
Havre	0.44	0.79	0.33	0.48	1.40	1.23	0.84	0.37	1.77	0.68	0.69	1.01	8.14
Helena	0.80	1.13	0.94	0.24	1.43	1.90	0.31	1.06	1.77	0.84	1.64	0.17	11.78
Highwood	0.63	1.74	0.03	0.78	4.82	3.17	1.03	2.00	4.35	1.84	1.27	0.62	22.08
Homepark	0.58	0.59	0.42	1.48	2.70	0.78	0.55	0.35	1.89	1.22	0.84		.....
Huntley	0.47	0.62	0.55	1.72	1.65	0.92	0.00	1.00	2.73	1.36	1.21	0.48	12.71
Jones Canyon	1.72	2.72	0.60	2.03	5.35	2.41	1.17	1.48	3.93	3.10	3.43	1.09	29.03
Jordan	0.20		1.00	0.11	1.50	1.60	0.39			0.17	0.00	0.30	.....
Kalispel	0.78	2.06	1.45	0.86	1.67	0.40	0.43	0.67	2.31	1.29	1.68	0.52	14.12
KleinSmith Creek	0.86	0.67	0.44	0.05	2.42	1.78	1.31	0.74	2.41				.....
Lewistown	1.40	0.91	0.25	1.73	2.26	2.28	2.20	0.81	3.03	1.65	0.98	0.50	17.40
Livingston	1.35	0.70	0.12	1.25	2.40	1.01	0.57	0.90	2.76		1.50	0.30	.....
Lodge Pole Creek	1.47	0.53	T.	1.85	5.72	1.57							.....
Lometa	0.28	1.37	0.00	1.76	2.32	2.82	0.73	0.94	3.40	1.10	1.39	0.63	17.24
Lost Creek		1.33	0.42	0.11	1.57	1.60	0.59	0.60	1.86	0.95	2.09	0.32	.....
Lost Horse Creek	0.80	0.73	0.13	1.47	5.11	1.78	2.15	1.08	3.40	1.18	1.73	0.85	17.97
Malta	0.09	0.58	0.42	0.71	0.89	0.64	1.15	0.76	0.27	0.12	0.51	0.18	6.32
McGinnis Meadows					2.33	0.65	0.24	0.17	1.50	2.63	3.07	0.95	.....
Meadow Creek	0.50	1.40	T.	0.69	0.63	0.33		0.08					.....
Melstone	0.35	0.43	0.84	1.15	2.37	2.98	0.77	1.04	3.12	0.60	0.34	0.18	14.07
Mildred	0.10	0.60	1.59	1.71	1.66	5.50	1.69	0.94	2.36	0.56	0.22	T.	16.93
Miles City	0.94	0.80	1.75	1.85	1.12	2.81	0.93	1.27	1.94	0.48	1.13	0.41	14.93
Missoula	0.61	1.40	0.69	0.66	1.92	0.67	0.13	0.57	2.76	1.20	2.35	0.27	13.23
Moore	0.60	1.07	0.10	1.56	2.42	1.96	1.56	1.45	2.79	1.65	0.85	0.21	15.23
Norris	2.53	0.51	0.35	1.50	2.64	1.19	0.88	1.96	2.06	1.80	1.93	0.35	17.75
Nye	1.45	0.24	0.08	1.33	4.42	0.60	1.11	0.46	4.98	2.32	0.61	0.16	17.76
Olsen Creek	1.07	0.48	0.37	0.76	2.72	2.22	1.04	0.80	4.50	1.94	1.69	0.37	18.03
Ophir	0.30	1.51	1.17	1.07	2.76	2.03	1.17	2.33	1.31	2.29	2.66	0.24	18.84
Ovando	2.02	5.74	1.59		0.70	1.68	1.16	2.07	0.93	1.60	5.34	1.70	.....
Phillipsburg	1.27	1.43	0.39	0.37	2.10	2.13	0.62	0.57	1.94	0.95	2.14	0.26	14.22
Pipestone Pass	1.05	0.95	0.43	0.95	3.36	1.70	1.14	0.91	3.52	2.09	1.53	0.50	18.14
Plains	0.30	2.00	0.35	0.10	0.90	T.	0.35	1.04	1.78	1.30	1.90	0.10	10.12
Pleasant Valley	1.60	2.71	1.60	0.89	2.05	0.46	0.24	0.12	2.93	2.43	3.70	1.16	19.99
Poison	0.89	1.05	0.94	1.00	1.30	1.32	0.16	0.22	2.06	1.60	2.54	0.60	13.78
Poplar	0.27	0.32	1.85	1.24	1.25	1.50	0.74	1.67	0.88	T.	0.40	T.	9.72
Raymond	0.14	1.98	0.03	0.10	1.56	1.91	0.95	0.95	4.75	0.37	0.69	T.	13.43
Red Lodge	0.76	0.52	0.20	1.99	5.05	0.84	1.37	0.87	3.20	2.64	0.63	0.05	18.11
Reese Creek	1.27	1.34	0.38	2.74	5.10	1.83	0.59	1.36					.....
Renova	0.59	0.40	0.16	0.92	1.83	0.94	0.51	0.04	3.03	1.02	1.18	0.09	10.71
Rimini	0.75	1.72	0.62	0.62									.....
Ryegate	0.20	0.27	0.15	1.02	0.98	2.34	0.44	1.09	4.76	0.75	0.15	0.12	12.27
Saint Ignatius	0.66	1.62	0.81	1.03	2.00	1.33	0.20	0.64	2.58	1.09	1.90	0.32	14.36
Saint Regis	3.07	3.80	3.40	1.35	1.85	0.26	0.36		2.35	1.49	5.25	1.02	.....
Saltee	5.84	7.80	3.85	1.42	3.25	0.30	0.25	0.00	1.45	5.26	10.17	4.00	44.20
Sedan	0.70	0.91	0.09										.....
Snowshoe	9.17			3.95	6.10	1.21	0.73	0.23	3.91	9.55	12.17	4.51	.....
Springbrook	1.11	2.60	1.12	1.59	1.89	1.21	1.28	1.09	0.32	0.26	0.42	0.70	13.50
Stearns	0.53	1.13	0.00	0.61	1.57	1.42	2.91	0.90	4.33	1.25	0.70	0.52	15.42
Three Forks		0.45	0.34	1.96	1.67	1.24	0.09	0.53					.....
Tokna	0.47	0.91	1.21	1.13	1.81	3.09	1.14	1.93		T.	0.59	0.36	.....
Townsend				0.48	1.89		0.31	0.50	3.57	0.10		
Trail Creek	0.54	0.90	0.69	2.35	3.73	2.09	0.80	1.50					

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MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDRETHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Montana—Continued.</i>													
Willow Creek	1.24	0.85	0.58	0.66	3.28	0.52	0.45	1.82	2.76	1.56			
Willow Glen Stock Farm							1.09	0.16	2.26	1.22	1.97	T.	
Wolf Creek	0.66	1.26	0.11	0.44	1.19	2.06	1.17	1.28	2.09	0.44	1.22	0.10	12.00
Wolf Point				0.62	1.31		0.75	0.98	0.39	0.00			
Woodville	0.77	1.09	0.58	0.64	2.45	2.15	0.66	0.75	3.49	1.21	1.68	0.70	16.17
<i>Nebraska.</i>													
Ainsworth		T.	0.50	0.61	2.11	4.14	1.52	2.32	0.68	0.42	0.21	1.25	
Albion	0.75	0.05	0.39	0.72	2.15	2.10	2.21	5.09	1.67	1.55	0.22	1.40	18.90
Alliance	0.41	T.	1.10	0.75	1.90	2.80	2.00	1.20	0.75	0.20	T.	0.52	11.63
Alma	0.41	0.05	0.00	0.65	2.38	1.15	1.72	4.66	3.30	0.68	0.14	0.40	15.54
Anoka	0.94	0.12	0.09	1.20	1.48	2.37	3.02	1.02	1.12	0.35	0.20	0.57	12.48
Arcadia	0.60	T.	0.23	0.69	2.50	4.39	2.10	5.67	1.10	1.46	0.10	1.20	20.10
Ashland	0.87	0.23	0.09	0.11	2.74	1.42	0.67	5.55	2.69	0.88	0.02	0.39	15.66
Ashton	0.08	0.02	0.30	0.90	2.05	3.49	2.29	3.54	1.83	0.82	0.23	0.36	15.91
Atkinson	0.82	0.05	0.04	1.08	2.25	2.87	4.02	3.42	0.54	0.20	0.10	0.75	16.72
Auburn	0.96	0.20	T.	0.16	3.13	1.41	1.42	6.82	6.51	0.48	0.17		23.76
Aurora	0.35	0.05	0.05	0.19	3.52	2.99	1.00	5.81	4.26	1.67	0.24	0.95	21.08
Beatrice	1.05	0.20	T.	0.05	4.35	1.96	1.69	3.57	3.88	0.80	0.13	0.90	18.88
Beaver City	0.19	0.07	0.00	0.25	2.62	1.66	1.53	2.81	1.58	0.12	0.08	0.39	11.30
Bellevue	1.30	0.40	0.00	0.34	3.22	0.84	1.03	6.32	3.42	0.85	0.24	0.60	18.56
Benkelman	0.10	0.20	0.04	0.76	2.44	1.85	0.52	2.80	1.16	0.00	0.03	0.25	10.15
Bertrand	0.30	0.05	0.00	0.17	2.37	2.56	2.28	7.79	2.47	0.72	0.12	0.52	19.35
Blair	0.55	0.50	T.	0.55	2.91	1.53	1.37	8.31	3.76	1.01	0.15	0.47	21.11
Bloomfield	1.10			0.41	1.55	0.94	2.83	3.79	2.75	1.42	T.	1.30	
Bradshaw	0.65	0.10	0.20	1.21	6.83	1.35	1.50	9.66	4.68	1.80	0.40	1.10	29.48
Bridgeport	0.40	T.	0.80	2.10	0.85	3.29	1.10	0.20	1.16	0.02	T.	0.35	10.27
Brokenbow	0.22			0.43	3.12	5.22	2.40	9.89	1.92	0.18	0.00	0.75	
Burge	0.98			0.20	1.12	3.21	4.03	2.84	0.85	0.25	T.	1.15	14.14
Cairo	0.88	0.05	0.30	0.26	2.59	4.32	1.61	2.56	1.78	2.09	0.27	1.17	17.88
Callaway	0.28	0.00	0.31	0.62	0.92	4.01	1.59	4.82			0.00	1.34	
Cambridge	0.30	T.	T.	0.31	3.52	0.65	2.06	2.41	1.37	0.26	0.07	0.43	11.38
Canton (near)		0.19	0.21	0.86	1.65		1.32	0.56	1.12			0.30	
Columbus	0.48	0.06	0.16	0.24	3.42	2.35	1.70	6.83	1.48	1.59	0.25	0.68	19.24
Cozad	0.15	T.	0.25	0.25	3.42	3.52	1.93	3.79	2.11	0.25	0.05	0.40	16.12
Creighton	0.67	0.13	0.14	1.18	2.01					1.82	0.03	0.90	
Crete	0.96	0.29	0.00	0.15	4.16	4.67	0.82	5.82	6.69	1.10	0.10	0.55	25.31
Culbertson	0.35	0.05	0.03	0.27	4.24	1.93	0.24	3.49	0.99	0.00	T.	0.15	11.71
Curtis	0.00			0.94	4.83	2.36	1.14	5.39	3.00	0.00	0.00	0.35	
David City	0.85	0.52	0.25	0.50	3.38	1.94	1.02	6.84	2.63	1.13	0.23	0.65	20.54
Dawson	1.19	T.	T.	0.08	5.88	2.74	1.07	3.80		1.10			
Dubois	1.49	0.03	T.	0.26	5.87	4.25	1.70	4.53	3.53	0.59	0.18	0.35	22.78
Dumas	1.10	0.09	0.07	0.75	3.85	2.60	0.98	3.17	1.75	1.06		0.69	
Ellis	1.10		T.	T.	6.28	3.51	1.10	3.82	3.65	0.93	0.10	0.50	
Elmcrest	1.18	0.00	0.32	0.31	3.24	4.23	4.17	4.28	2.38	0.60	0.17	0.79	21.67
Elaie	0.20	0.13	0.21	0.57	1.94	1.41	0.41	1.64	1.36	T.	0.05	0.37	8.29
Enderlake		0.00			1.15	6.03	1.05						
Ewing	1.10	0.10	0.15	0.62	1.88	2.86	2.07	3.15	0.74	0.62	0.19	0.95	14.43
Fairbury	1.28	0.15	0.00	0.42	7.37	2.84	0.72	4.46	2.79	0.71	0.12	0.87	21.71
Fairmont	0.97	0.15	0.21	1.07	4.19	2.82	0.85	5.85	4.20	0.85	0.12	1.15	22.43
Fort Robinson	0.21	0.24	1.07	0.77	0.58	1.80	3.19	0.86	1.47	0.96	0.38	0.38	11.85
Franklin	0.80	T.	T.										
Fremont	0.80	0.30	T.	0.33	3.05	0.45	1.07	10.14	3.87	1.08	0.10	1.00	22.17
Fullerton	0.68	0.10	0.60	0.42	2.66	3.81	1.84	11.29	1.98	2.00	0.44	2.17	27.99
Geneva	0.94	0.30	0.06	0.41	5.57	2.92	1.02	6.31	4.26	0.12	0.16	1.26	23.33
Genoa	0.68	0.15	0.30	0.27	2.33	3.06	2.66	6.67	2.17	1.95	0.24	1.70	22.23
Gordon	1.75	0.00	1.30	0.51	1.45	2.00	3.99	1.40	1.05	T.	0.00	2.02	15.47
Gosper	0.14	T.	0.00	0.28	3.95	1.67	1.55	6.53	1.73	0.10	0.03	0.34	16.32
Gothenburg	0.50	T.	0.23	0.97	2.36	3.73	1.83	4.07	1.82	0.80	0.10	0.68	17.09
Grand Island	0.61	0.06	0.03	0.19	2.80	4.14	0.37	3.78	2.83	1.45	0.25	0.85	17.96
Grant	0.20	0.10	0.58	0.65	1.99	1.55	0.40	1.67	1.78	0.02	0.13	0.40	9.47
Greeley	1.08	0.09	0.90	1.46	1.31	1.65	0.50	10.02	1.46	1.25	0.18	2.07	21.87
Guiderock	0.90	0.30	T.	0.52	4.49	3.10	1.75	5.53	3.54	1.09	0.30	0.85	22.37
Haigler	0.00	0.00	0.00	1.12	3.99	1.19	0.73	4.29	2.96	0.00			
Halsey	0.68	T.	0.27	0.90	2.17	5.64	1.63	4.00	1.18	0.35	0.29	0.70	17.51
Hartington	0.70	0.15	0.05	0.30	1.38	2.05	2.60	5.20	3.64	1.64	0.20	0.30	18.21
Harvard	0.46	0.07	0.02	0.73	4.26	4.04	0.68	5.27	3.08	1.35	0.34	1.03	21.33
Hastings	0.85	0.40	0.10	1.17	2.72	2.82	2.03	6.40	3.28	1.33	0.33	1.09	22.52
Hayes Center	0.70	0.15	0.09	0.73	2.85	3.17	0.99	2.95	2.70	0.01	0.03	0.65	15.02
Hay Springs	1.10	0.05	1.80	1.56	1.16	3.19	2.43	0.60	0.60	0.20	T.	0.70	13.39
Hebron	0.83	0.27	T.	0.24	6.70	3.01	2.73	5.16	3.42	0.66	0.13	0.56	23.71
Hemingford	0.37	0.19	0.40	0.63	2.04	2.28	1.73	0.62	0.97	0.41	0.18	0.32	10.14
Hendley	0.40	0.10	0.00	0.06	3.24	1.47	2.35	3.06	1.37	0.12	0.02	0.50	12.69
Hillside	0.15	T.	0.70	0.34	4.57	1.95	2.52	2.96	3.22	0.06	0.06	0.55	17.06
Holdrege	0.90	0.07	0.00	0.29	2.50	1.49	3.00	5.73	2.03	1.30	0.23	1.10	18.64
Hooper	0.17	0.15	T.	0.45	2.34	0.94	2.73	9.99	4.20	0.07	0.15	0.80	22.59
Imperial	0.40	0.10	0.38	0.71	1.95	2.51	0.72	2.82	1.58	T.	T.	0.57	11.77
Imperial	0.70	T.	0.05	0.55	2.39	4.46	1.81	3.44	2.61	0.74	0.30	0.50	17.55
Kearney	0.05	0.35	1.00	0.90	2.67	2.64	0.89	0.82	2.14	T.	0.10	0.55	11.81
Kimball	0.95	0.25	0.50	1.03	2.13	3.50	3.01	5.30	1.93	0.54	0.19	0.90	20.23
Kirkwood	0.00	0.12	0.65	0.74	2.53	1.66	0.81	0.83	1.20	0.06	0.15	0.10	8.85
Kowanda	0.65	0.00	T.	0.17	2.67	3.91	3.12	3.72	2.14	0.46	0.10	0.60	17.54
Lexington	1.15	0.18	0.10	0.02	3.61	2.09	3.03	14.21	5.06	1.21	0.10	0.57	31.33
Lodgepole					2.01	1.72	1.12	1.41	2.04	T.	0.05	0.25	
Loup City	1.10	T.	0.90	0.98	2.33	4.38	2.24	5.07	1.45	0.85	0.38	1.05	20.78
Loyal	0.30	0.00	0.30	0.50	1.20		1.48	3.15	1.30	0.36	0.26		
McCook	0.00	0.00	0.00	0.76	2.77	1.12	0.70	2.93	0.72	0.17	0.00	0.17	9.34
McCool Junction	1.10	T.	T.	1.50	4.36	3.24	0.68	6.12	4.89	0.76	0.31	1.30	24.36
Madison	0.70	0.30	T.	0.10	2.23								

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Nebraska—Continued.</i>													
NorthPlatte.....	0.34	0.02	0.19	0.48	2.59	2.75	0.50	2.02	0.97	0.01	0.11	0.72	10.70
Oakdale.....	0.48	0.15	0.17	0.72	1.95	1.23	3.88	4.17	1.13	1.13	0.26	0.78	16.05
Odell.....	1.65	0.00	0.06	0.06	7.24	3.65	0.63	3.62	2.71	1.05	0.10	0.67	15.49
Omaha.....	0.94	0.28	T.	0.26	2.23	0.43	1.90	4.76	3.43	0.72	0.17	0.37	21.85
Ord.....	0.88	0.05	0.51	0.55	4.09	4.21	1.11	5.16	2.78	1.08	0.20	1.63	16.01
Orleans.....	0.50	0.25	0.00	0.50	3.69	1.51	2.30	3.51	3.05	0.45	0.14	0.30	16.01
Ossola.....	0.70	0.40	0.20	0.30	4.28	4.39	3.26	11.06	2.25	1.33	0.40	0.00	16.01
Palisade.....	0.00	0.00	0.00	0.67	3.64	1.36	0.51	2.48	1.53	0.00	0.00	0.00	31.20
Palmyra.....	1.10	0.30	0.14	T.	4.55	2.19	1.50	12.65	7.27	0.87	0.17	0.46	23.90
Pawnee City.....	1.05	0.05	T.	T.	6.85	3.52	1.32	6.52	3.54	0.40	0.15	0.50	19.32
Paxton.....	0.06	0.06	0.04	0.04	4.86	1.89	1.32	4.95	4.00	0.76	0.08	0.53	15.42
Plymouth.....	0.79	0.10	0.00	0.04	1.60	4.01	1.72	3.33	1.27	0.08	0.26	1.18	19.47
Purdum.....	0.90	T.	0.65	0.42	2.05	4.70	2.02	3.73	2.31	0.72	0.23	0.87	18.98
Ravenna.....	0.81	0.04	0.19	1.80	2.05	4.70	2.02	3.73	2.31	0.72	0.23	0.87	18.95
Redcloud.....	0.54	0.15	T.	0.93	4.16	3.04	2.18	2.69	3.18	1.18	0.29	0.65	15.48
St. Libory.....	0.80	0.10	0.90	0.61	3.40	3.26	1.00	5.05	2.00	1.12	0.26	1.05	17.35
St. Paul.....	0.49	0.04	0.19	0.28	2.75	2.49	0.44	4.55	1.56	1.43	0.21	0.87	17.35
Santee.....	1.00	0.40	0.28	1.08	2.20	1.77	4.50	2.55	1.50	1.30	0.00	0.70	19.64
Sargent.....	0.70	0.20	T.	0.20	1.82	3.21	1.40	6.47	1.40	0.15	T.	0.75	9.91
Schuyler.....	0.50	0.38	T.	0.70	2.62	1.61	0.91	8.99	1.52	1.42	0.22	0.77	29.29
Scottsbluff.....	0.16	0.16	0.33	1.18	1.93	3.05	1.15	0.24	1.15	1.17	0.17	0.36	14.37
Seward.....	0.92	0.10	0.05	0.32	4.80	2.80	2.65	10.85	4.35	1.25	0.35	0.85	19.13
Sidney.....	0.30	0.30	0.50	0.71	3.45	3.44	1.27	2.11	1.92	0.04	0.15	0.18	18.97
Springview.....	1.10	0.10	0.65	0.40	3.13	3.88	1.38	6.85	0.24	0.18	0.12	1.10	18.97
Stanton.....	0.80	0.30	T.	0.92	1.92	1.75	3.45	5.05	3.38	0.35	0.25	0.80	0.53
Stratton.....	0.30	0.00	0.65	0.60	2.35	3.60	1.31	4.79	1.93	0.00	0.30	0.30	22.78
Superior.....	0.60	0.05	0.00	0.22	.....	2.35	1.40	6.94	4.45	0.80	0.20	0.53	24.35
Syracuse.....	1.25	0.65	0.16	0.17	5.48	1.78	0.65	6.50	4.32	0.78	0.21	0.55	21.65
Tablerock.....	1.47	0.11	T.	0.14	6.06	2.85	1.53	5.81	4.81	0.70	0.22	0.63	21.07
Tecumseh.....	1.30	0.10	T.	0.07	4.29	1.67	0.78	5.90	5.97	0.89	0.15	0.50	21.07
Tekamah.....	0.75	0.45	0.00	0.63	2.35	1.09	2.13	8.30	3.55	1.09	0.13	0.60	1.10
Tobias.....	0.20	0.20	T.	0.07	4.90	2.18	0.52	6.77	3.98	0.66	T.	0.15	28.95
University Farm.....	0.88	0.09	0.08	0.05	3.30	1.64	2.42	14.41	4.42	0.91	0.15	0.57	18.45
Valentine.....	1.61	0.27	0.86	0.12	1.17	5.12	2.14	4.95	0.67	0.20	0.12	1.22	22.63
Wahoo.....	0.90	0.50	0.30	0.50	3.25	0.60	0.69	9.55	4.37	0.97	0.30	0.90	17.17
Wakefield.....	0.42	0.25	0.02	0.40	2.81	2.39	2.36	3.46	3.39	1.02	0.18	0.47	16.14
Wallace.....	0.55	0.05	T.	.....	.....	.....	.....	.....	.....	.....	.....	.....	14.12
Walthill.....	0.25	0.20	T.	1.60	3.27	.....	.....	.....	.....	.....	.....	.....	23.77
Watertown.....	0.56	0.02	0.20	0.60	2.70	3.64	1.40	3.12	2.39	0.54	0.22	0.75	16.14
Wauwata.....	0.00	0.00	0.00	0.52	2.30	3.44	0.77	2.64	3.20	0.00	0.10	0.56	14.12
Weepingwater.....	1.92	0.37	0.16	0.18	4.39	1.53	0.73	10.00	3.09	0.89	0.19	0.50	23.77
Westfleet.....	0.20	0.40	T.	2.86	1.20	0.30	2.60	.....	.....	.....	.....	.....	30.52
Westpoint.....	0.20	0.40	T.	0.80	3.56	.....	1.98	13.31	4.53	1.41	0.25	0.50	30.52
Wilber.....	1.65	0.40	0.00	T.	.....	.....	.....	.....	.....	.....	.....	.....	0.52
Wisner.....	.....	.....	.....	.....	.....	.....	2.91	5.21	2.56	1.52	0.15	0.52	.....
Woodlawn.....	0.99	0.25	0.11	0.03	3.04	2.02	1.88	11.42	2.94	1.08	0.08	0.30	.....
York.....	0.65	0.30	0.13	0.54	5.03	1.07	3.46	8.72	3.07	0.57	0.80	1.20	25.34
<i>Nevada.</i>													
Battle Mountain.....	1.60	0.70	0.08	0.30	0.00	0.00	0.51	0.00	0.39	0.31	0.36	1.23	3.48
Beowawe.....	0.65	0.00	0.00	0.00	0.00	0.00	[0.47]	0.00	0.50	0.50	1.42	.....	4.57
Bishop.....	.....	.....	0.56	0.65	1.25	0.09	0.20	T.	1.10	0.81	0.94	.....	.....
Caliente.....	.....	.....	0.00	0.04	0.00	0.23	0.40	0.12	0.08	0.10	0.40	.....	.....
Carlin.....	0.29	0.17	0.00	0.05	0.06	T.	0.43	0.00	0.07	0.06	0.03	[0.84]	2.00
Carson Dam.....	0.97	T.	T.	0.23	T.	0.14	T.	0.00	0.48	0.25	0.26	[0.50]	2.83
Cherry Creek.....	0.51	0.41	0.11	0.05	0.07	0.07	0.46	0.20	0.72	0.53	0.30	1.03	4.46
Clover Valley.....	3.52	2.48	0.65	0.73	1.24	0.15	0.40	0.03	0.70	0.41	1.15	2.27	13.73
Cobre.....	0.38	.....	T.	0.00	0.19	T.	0.05	0.03	1.45	0.05	.....	0.38	.....
Columbia.....	0.90	0.00	0.29	0.08	0.02	0.00	1.09	0.08	1.07	1.10	0.71	1.09	6.43
Dutton.....	0.60	.....	0.00	T.	.....	0.00	0.55	0.00	0.28	0.19	0.38	0.65	.....
Elko.....	0.43	0.84	0.06	0.54	0.24	0.08	1.71	T.	0.21	0.27	0.08	0.27	4.71
Ely.....	1.36	0.78	0.13	0.30	0.07	0.00	0.77	0.97	0.83	0.69	[0.30]	0.62	6.99
Estreka.....	0.71	0.32	0.81	0.53	0.65	0.02	2.62	0.54	1.15	0.70	0.58	0.63	9.46
Fallon.....	1.98	0.04	0.16	0.28	0.00	0.10	0.05	0.00	0.45	0.46	0.02	0.56	4.04
Fernley.....	0.97	0.04	0.10	0.15	0.02	0.15	0.19	0.00	0.30	0.39	0.54	[0.50]	3.35
Gardnerville.....	4.16	1.00	0.20	0.01	0.00	.....	2.50	0.00	0.61	T.	0.12	1.17	.....
Glenbrook.....	4.60	2.06	0.35	0.25	.....	.....	.....	0.55	0.10	1.35	2.21	.....	.....
Golconda.....	0.37	0.25	0.20	1.00	0.25	T.	0.25	0.00	0.75	0.50	0.25	1.60	5.42
Halleck.....	1.30	0.40	0.00	0.34	0.60	0.05	0.34	0.00	0.67	0.49	0.02	1.06	5.27
Jean.....	0.00	0.00	0.00	0.00	0.00	0.00	2.05	1.13	0.40	0.60	0.90	.....	.....
Las Vegas.....	[0.00]	0.00	0.30	T.	0.00	0.00	0.65	T.	0.95	0.73	0.05	1.00	2.68
Leetville.....	1.23	0.10	0.15	0.15	0.00	0.10	0.30	0.00	0.47	0.30	.....	.....	.....
Lewers's Ranch.....	3.40	1.30	0.50	0.50	0.10	T.	0.15	0.00	0.55	0.80	1.88	4.55	13.43
Logan.....	0.56	0.10	0.23	0.07	T.	T.	0.11	T.	0.71	0.52	0.94	0.54	3.78
McAfee's Ranch.....	0.64	T.	0.00	0.00	0.00	0.00	0.27	0.00	1.04	0.66	0.00	.....	.....
Massacre Lakes.....	.....	.....	0.09	0.02	0.44	0.27	0.21	.....	1.25	0.55	0.89	.....	.....
Millett.....	1.50	0.19	0.34	0.80	0.33	0.00	1.68	T.	1.82	0.45	T.	0.79	7.90
Mina.....	1.00	T.	0.00	0.00	0.00	T.	T.	0.00	0.00	0.00	T.	0.70	1.70
North Fork.....	0.91	0.86	0.58	1.45	0.93	T.	0.32	0.03	0.52	0.85	0.67	2.00	8.21
Palmetto.....	.....	.....	.....	.....	.....	.....	0.49	0.00	1.84	1.19	.....	0.93	.....
Paradise Valley.....	1.20	1.60	0.25	0.99	0.20	0.00	0.15	0.00	.....	.....	.....	.....	.....
Potts.....	0.60	0.11	0.05	T.	1.27	T.	0.18	T.	1.25	0.30	0.05	0.27	4.08
Quinn River Ranch.....	0.66	.....	0.66	0.62	0.04	0.07	0.40	0.00	0.54	0.39	1.09	1.53	.....
Reno.....	0.98	0.16	0.22	0.14	T.	0.05	1.45	0.00	0.23	0.71	0.54	1.44	5.97
Rose Creek.....	.....	1.48	0.30	1.23	0.67	0.13	0.45	0.00	0.57	1.09	1.44	3.21	.....
San Jacinto.....	0.43	[0.79]	0.19	0.86	1.30	0.08	0.62	T.	1.50	0.83	0.85	0.44	7.71
Skelton.....	0.50	1.80	0.61	0.89	0.81	1.10
Smith.....	0.27	0.11											

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Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>New Hampshire.</i>													
Alstead Center.....	3.59	3.81	1.01	2.37	3.17	2.80	1.34	2.29	2.67	1.72	3.80	2.93	31.52
Benton.....	2.40	2.95	1.42	2.94	4.33	4.45	3.79	4.94	3.44	2.00	2.31	2.38	37.35
Bethlehem.....	3.17	2.90	1.66	3.27	4.82	4.70	4.97	5.72	3.74	1.31	2.19	2.58	41.03
Brookline.....	5.11	3.65	1.43	3.10	1.88	3.95	1.73	2.62	2.32	1.68	2.60	2.29	32.36
Concord.....	4.10	4.77	1.28	3.20	1.81	3.47	0.91	1.49	3.06	1.03	2.60	2.47	30.19
Durham.....	2.90	2.94	0.14	2.47	1.27	3.27	1.79	3.02	2.76	1.64	2.01	1.39	25.60
Franklin.....	3.48	4.60	1.38	3.75	3.09	2.89	1.17	4.34	4.56	1.06	2.64	2.62	35.49
Crafton.....	3.80	4.35	1.02	3.91	3.02	2.47	1.74	3.76	3.92	0.75	2.82	2.55	24.11
Hanover.....	2.50	3.55	0.92	2.70	3.25	3.45	1.44	3.91	3.66	1.12	2.49	2.38	31.37
Kcene.....	4.01	4.03	1.02	1.95	2.34	2.16	2.55	1.41	4.31	1.41	3.04	1.91	30.13
Nashua.....	4.49	6.12	1.27	2.44	1.58	3.48	2.11	2.37	2.06	1.34	3.05	1.84	31.95
Newton.....	4.20	4.69	1.39	2.25	1.79	4.48	1.67	2.47	1.83	2.04	2.76	1.91	31.48
Plymouth.....	4.05	3.77	1.10	4.11	3.41	3.65	1.91	3.79	5.08	1.48	2.28	2.64	37.27
<i>New Jersey.</i>													
Asbury Park.....	4.33	1.84	0.90	4.54	1.48	5.64	0.70	4.97	1.47	2.42	5.37	4.22	37.88
Atlantic City.....	4.64	2.74	1.27	4.23	1.98	5.81	1.35	1.84	1.46	2.73	2.32	3.96	34.33
Bayonne.....	5.61	2.88	1.64	5.31	1.72	4.12	0.29	1.83	1.85	3.97	3.84	2.31	35.37
Belvidere.....	5.14	3.45	1.55	6.01	3.25	3.16	2.14	3.07	3.57	2.12	3.92	2.47	39.85
Bergen Point.....	6.10	3.24	1.76	6.03	2.89	5.24	0.27	2.53	2.03	4.73	5.22	2.60	42.64
Boonton.....	5.31	3.10	1.90	6.06	3.22	4.02	0.96	2.93	2.75	2.38	3.79		
Bridgeton.....	4.80	2.20	0.84	3.55	2.44	8.01	3.04	5.43	1.78	3.73	3.24	2.50	41.56
Burlington.....	4.59	3.00	0.29	5.72	2.01	5.31	2.27	5.36	1.74	3.28	3.07	2.95	39.59
Canton.....	4.34	1.42	1.31	3.43	2.27	6.35	5.33	3.41	1.36	3.65	3.78	3.22	39.87
Cape May.....	4.64	2.33	2.36	4.10	1.88	5.03	1.31	3.90	2.38	5.55	1.63	2.94	38.05
Charlottesville.....	5.94	4.09	0.83	7.56	3.56	4.23	1.03	2.87	2.62	3.38	3.95	2.30	41.30
Chatham.....	5.94	2.89	1.92	6.02	2.90	4.63	0.70	4.07	2.12	2.67	4.22	2.09	40.27
Clayton.....	4.46	1.38	1.36	4.22	2.46	6.19	3.31	3.39	2.87	3.71	3.50	3.70	40.75
College Farm.....	6.65	2.58	1.73	5.01	2.86	4.94	0.28	6.29	3.49	3.86	3.86	2.50	44.05
Culvers Lake.....	4.45	4.07	1.49	4.98	3.85	4.19	1.07	2.61	3.57	1.62	4.60	3.05	39.55
Dover.....	6.15	4.81	1.03	7.17	4.25	4.57	1.35	3.20	2.59	2.30	4.80	2.90	45.12
Elizabeth.....	5.51	2.88	2.04	4.45	2.42	4.03	0.59	1.79	1.88	3.23	4.39	2.79	36.00
Flemington.....	5.41	3.45	1.35	4.92	2.22	4.17	0.22	3.82	3.36	2.41	3.51	2.28	37.12
Haddonfield.....	4.39	2.38	0.95	5.04	2.35	5.96	2.03	8.46	2.21	3.27	3.64	3.04	43.72
Hammondtown.....	4.30	1.48	1.44	5.44	1.93	7.38	1.55	4.91	2.70	4.28	2.43	3.36	41.30
Hightstown.....	4.74	2.96	0.62	3.89	2.41	5.34	0.54	5.09	2.25	4.39	4.24	2.80	39.26
Highwood.....										2.14	4.85		2.27
Imlaystown.....	4.36	3.56	0.42	3.83	2.38								
Indian Mills.....	4.47	1.39	1.32	5.08	2.01	7.43	2.12	4.85	1.67	4.31	3.10	3.32	41.07
Jersey City.....	5.99	4.09	0.96	4.95	1.93	4.60	0.36	1.81	1.58	3.20	5.67	2.50	37.64
Lakewood.....													3.92
Lambertville.....	5.61	2.85	1.56	6.29	2.46	4.80	0.42	4.39	3.24	3.25	4.04	2.40	41.31
Layton.....	3.66	3.11	1.01	5.29	2.36	2.66	1.47	2.90	3.04	1.41	4.63	2.97	34.56
Little Falls.....	5.17	4.35	0.97	7.22	2.50	3.82	1.73	2.02	2.63	2.42	4.68	1.90	39.60
Long Branch.....	5.32	2.54	1.01	4.79	1.54	5.73	1.85	3.77	2.44	2.52	5.73	2.84	40.08
Mahwah.....		3.47		7.38		5.30	1.35	2.65	2.40	1.90	3.83		
Moorestown.....	4.47	2.42	0.46	5.64	2.25	5.46	1.32	6.08	3.86	3.05	2.73	3.06	40.80
Newark.....	5.12	4.10	0.72	5.27	1.88	4.82	0.93	2.73	2.29	3.64	5.60	2.55	39.85
New Brunswick.....			0.48	4.99	3.34	4.77	0.31	3.64	3.59	3.60	3.96		2.70
Northfield.....	5.02	4.47	1.17	4.31	1.16	3.60	1.44	2.91					
Oceanic.....	4.44	1.95	1.33	4.48	2.00	7.93	1.83	2.41	1.17	3.07	2.22	3.52	36.35
Oceanic.....	5.70	2.11	1.87	4.90									
Paterson.....	5.36	4.07	1.34	6.85	2.95	4.63	1.79	1.76	2.29	2.72	3.68	2.12	39.56
Phillipsburg.....	4.76	4.64	0.93	5.04	2.69	4.09	0.72	2.84	3.97	2.26	3.85	2.31	38.10
Plainfield.....	5.88	3.79	0.88	5.04	3.14	5.24	0.33	4.94	2.54	2.57	3.83	2.54	40.72
Pleasantville.....		1.93	1.31	4.27	1.95	7.90	1.74	3.17	1.33	3.03	2.60	2.91	
Pompton Plains.....	5.51	4.38	1.38	6.90	3.02	3.96	1.02	2.59	2.28	2.43	4.06	2.07	40.20
Rancocas.....	4.26	2.75	0.60	5.29	2.32	5.36	1.05	5.30	3.77	3.51	3.01	2.88	40.73
Rivervale.....	4.88	3.24	2.13	7.21	3.89	4.30	1.11	2.01					2.82
Somerville.....	5.36	3.41	1.70	4.80	2.49	4.58	0.64		2.71	2.40	3.98	2.54	39.86
South Orange.....	5.64	3.77	1.50	6.15	2.10	4.80	0.64	2.12	1.80	2.78	4.41	2.27	37.98
Sussex.....	4.65	4.44	0.88	4.64	3.30	3.69	0.85	2.52	2.83	1.55		1.92	
Trenton.....				5.08	2.00	5.64	0.90	10.58	2.50	4.63	2.95		
Tuckerton.....	4.83	2.69	1.32	4.95	2.36	6.65	2.26	4.13	1.44	4.55	4.14	3.41	42.73
Vineland.....	4.29	1.06	1.38	4.66	2.29	7.48	2.76	4.78	2.23	4.19	2.40	3.45	40.97
Woodbine.....				4.37	2.28	5.83	2.31	4.54	1.01	3.60	2.19	4.60	
<i>New Mexico.</i>													
Abbott.....	0.08	0.18	0.00	0.70	0.27	0.68	2.31	4.08	0.85	0.69	0.54	0.13	10.51
Agricultural College.....	0.22	0.02	0.33	0.10	T.	0.25	1.10	1.46	0.23	0.03	0.11	0.17	4.02
Alamogordo (near).....	0.40	0.00	0.20	0.12	0.04	1.00	0.99	4.05	T.	0.70	1.10	0.65	8.65
Alamogordo.....	0.37	0.00	0.15	T.	T.	1.09	0.04	2.49	0.15	0.30	1.12	0.06	5.77
Albert.....	T.	0.36	0.00	0.23	0.20	2.01	1.71	3.63	0.50	0.86	0.26	T.	9.76
Albuquerque.....	0.14	0.31	0.30	0.55	0.63	0.79	1.88	1.51	0.06	0.29	0.73	0.22	7.41
Alma.....	[0.93]	T.	0.10	0.86	0.30	0.09	1.65	1.95	1.20	0.55	2.01	0.35	[9.99]
Ancho.....	0.07	0.00	T.	0.00	0.15	0.95	2.28	0.00	0.15	0.15	0.15	0.21	3.96
Aragon.....	0.30	0.60	0.75	0.71	0.55	0.30	1.14	2.22	0.35	1.03	1.30	0.80	11.55
Arch (near).....	0.00	0.00	0.80	1.64	1.76	0.61	1.28	[4.75]	0.90	0.68	0.28	0.22	[12.92]
Artesia.....	[0.08]	T.	0.01	0.21	0.27	0.32	0.03	2.04	1.34	0.48	0.66	0.04	[5.46]
Aspen Grove Ranch.....	2.23	2.20	0.93	1.30	0.53	0.21	5.63	3.58	1.01	2.30	1.15	0.71	21.78
Aurora.....	0.22	1.02	0.29	1.77	0.40	0.54	3.78	2.42	0.51	1.06	0.39	0.31	12.71
Aztec.....													1.37
Bateman's Ranch.....	0.81	1.05	0.63	0.98	0.20	0.59	1.74	2.42	3.05	2.22	1.12	0.68	15.52
Bell Ranch.....	0.03	0.14	0.33	0.13	0.18	2.30	2.78	2.69	0.17	0.44	0.25	0.03	9.48
Black Lake.....	0.37	0.57	0.22	0.89	0.21	0.28	3.10	1.33	1.72	0.78	0.31	0.29	10.02
Blackrock.....	1.40	0.25	0.29	0.65	T.	0.62	2.58	0.97	0.02	0.32	1.34	0.08	8.72
Bloomfield.....	0.17	0.23	0.18	0.63	T.	0.07	1.66	0.55	0.86	1.03	0.73	0.85	6.76
Bluewater.....	0.27	0.34	T.	T.	0.52	0.30	2.10	1.27	0.36	1.14	0.77	0.17	7.20
Boaz.....	0.11	0.02	0.06	0.06	0.28	0.74	0.63	3.81	0.97	0.36	0.06	0.07	

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>New Mexico—Continued.</i>													
Carson Park							1.82	2.11	0.78	0.75	0.84	1.00	
Chacon	0.42	1.35	0.27	2.70	0.56	1.13	2.72	2.19	0.00	0.59	0.81	0.18	13.22
Chama	2.39	3.04	1.22	1.05	0.32	0.60	2.30	2.27	0.15	1.86	0.79	1.31	17.30
Cimarron (near)	0.10	0.20	0.14	1.54	0.72	2.17	1.41	2.27	0.27	1.66	0.24	T.	10.72
Clayton	0.10	0.27	0.00	0.92	1.80	1.48	2.88	1.98	0.45	T.	0.27	T.	10.15
Cloudcroft	0.90	T.	0.30	0.27	0.10	1.84	2.71	7.31	0.88	0.08	0.15	0.75	15.89
Columbus	0.14	0.03	1.13	0.09	0.00	2.34	0.54	1.17	0.35	0.03	0.19	T.	6.01
Corona	0.53	1.62	0.35	T.	0.12	0.61	1.40	2.59	0.50	0.65	[0.50]	0.05	[8.92]
Coyote	0.29	0.32	0.20	0.24	0.22	1.70	0.86	3.03	0.15	0.49	1.04	0.20	8.74
Cuervo	0.09	0.02	0.08	0.86	T.	0.45	0.58	3.16	1.10	0.37	0.58	0.01	7.10
Cundiyo	0.80	0.69	0.32	0.58	0.50	0.01	0.25	1.76	0.33	0.61	0.89	0.44	7.24
Dawson	0.30	0.30	0.10	1.70	1.91	1.71	0.94	6.19	0.25	0.03	0.20	0.00	14.44
Deming	0.00	0.00	0.19	0.02	0.00	0.43	0.96	1.02	0.80	0.00	0.00	0.00	8.42
Demonstration Farm	0.02	0.25	0.46	0.58	0.05	3.12	0.97	3.71	0.41	0.68	0.45	0.37	11.07
Dorsey	[0.18]	[0.19]	T.	0.53	1.94	1.52	0.72	4.12	0.25	0.43	0.14	0.09	[10.11]
Dulce	0.88	1.39	0.82	0.56	0.05	0.44	2.03	2.10	0.25	2.24	1.19	1.03	12.98
Duran	T.	0.47	T.	T.	T.	0.76	2.36	2.61	0.30	0.29	0.50	T.	7.79
Elida	0.03	0.01	0.01	0.02									
Elizabethtown	1.36	1.16	0.37	1.59	0.64	0.96	2.52	3.38	0.78	1.03	0.17	0.24	14.20
Elk (near)	T.	T.	T.										
Escondido	0.16	0.00	0.80	0.30	T.	0.62	0.24	3.06	T.	0.26	0.44	0.04	5.92
Espanola	0.45	0.76	0.00	0.63	0.25	0.11	0.15	0.28					0.23
Estancia	0.21	0.57	0.14	0.24	0.04	0.20	0.44	2.59	1.06	2.04	0.54	0.17	9.44
Folsom	0.21	0.53	T.	1.60	2.16	0.49	2.22	5.38	0.56	0.63	0.12	0.40	14.30
Fort Bayard	0.64	T.	T.	0.55	0.32	2.40	1.45	0.90	0.35	0.43	0.95	0.30	8.29
Fort Stanton	0.10	0.37	0.35	0.44	0.18	2.65	1.57	4.57	0.90	0.56	0.77	0.23	12.89
Fort Sumner	0.51	T.	0.33	0.34	T.	1.49	0.48	5.54	0.83	0.61	0.15	0.10	10.38
Fort Union	0.17	0.07	0.57	1.66	0.40	3.40	4.20	6.17	0.68	0.47	0.38	0.23	18.40
Fort Wingate	0.29	0.27	0.68	1.66	T.	0.30	2.40	1.50	0.80	0.80	0.49	0.65	9.84
Fruitland	0.29	0.22	0.05	1.04	0.00	0.25	0.90	0.48	0.42	1.45	0.67	0.32	6.09
Gage	0.23	0.00	0.20	0.04	0.14	0.50	0.08	1.00	0.05	0.00	T.	0.00	2.84
Gallinas	0.49	0.65	0.30	0.47	0.10	1.14	0.62	1.03	T.	1.71	0.72	0.30	7.53
Gallinas Planting Station	0.62	0.76	0.65	1.63	1.54	2.49	5.59	3.96	1.86	1.27	0.69	0.42	21.48
Gila (near)	0.32	0.00	0.00	0.84	0.15	1.10	2.47	2.27	0.87	0.41	0.20	[0.35]	[8.98]
Gila Planting Station										0.64	1.19	0.21	
Glorieta Ranch										1.10	0.41	0.10	
Hachita	0.15	0.14	0.36	T.	0.00	0.45	0.97	1.26	0.61	T.	0.30	0.14	4.38
Harvey's Upper Ranch	1.42	1.72	1.18	2.70	1.29	2.31	3.87	6.56	1.92	2.43	0.87	1.60	27.87
Hayden	0.00	0.16	0.00					6.57			0.20	0.00	
Haynes	0.55	1.54	0.69	1.02	0.01	0.04	1.12	1.20	0.35	2.26	0.54	0.50	9.82
Hermans	0.21	0.09	T.	0.00	0.00	0.51							
Hillsboro	T.	0.01	T.	0.05	T.								
Hodges	1.24	0.86	0.60		0.42	0.05		1.17	1.00	0.61	0.52	0.84	
Hondo Reservoir	0.04	0.03	0.26	0.04	0.75	1.36	0.79	4.09	1.48	0.31	0.32	T.	9.47
Hopewell	2.10	1.08	1.16	0.76	0.42	0.17	3.02	2.95					
Jemez Springs										1.96	1.42	0.62	
Johnson's Park	0.20	0.05	T.	0.54	1.19	0.32	3.22	2.12	0.18	0.40	0.11	T.	8.33
Kappus										0.04	0.10	0.09	
Knowles (near)							0.45	3.71	0.61	0.45	0.25	T.	
Laguna	T.	0.49	0.09	1.21	0.50	0.20	0.87	1.63	1.95	1.04	0.98	0.12	9.08
Lagunita	0.18	0.15	0.31	0.23	0.03	1.08	0.65	5.59	1.07	0.74	0.44	0.09	10.56
Lake Alice	0.29	0.00	0.00	2.55	1.60	0.59	1.78	3.39	0.36	1.01	0.10	0.35	12.02
Lake Valley	0.26	T.	0.01	0.30	0.15	0.38	1.88	1.24	0.66	0.60	0.65	0.18	6.31
Las Vegas	0.16	0.30	0.61	0.98	0.13	0.31	2.48	3.72	1.08	0.85	0.45	[0.34]	[11.41]
Liston	0.10	0.02	0.20	0.22	0.84	0.53	0.96	4.30	0.45	0.11	0.32	0.00	8.05
Logan	0.00	0.18	0.00	0.24	T.	0.42	2.68	4.38	0.15	0.24	0.00	0.00	8.29
Lordsburg	0.48	0.00	0.00	0.02	0.42	0.30	2.92	4.37	T.	0.30	0.36	0.02	4.78
Los Alamos	0.23	0.33	0.36	1.39	0.43	3.00	2.81	4.54	1.61	1.30	0.30	0.32	16.62
Los Lunas (near)	0.13	0.12	0.34	0.06	0.49	[1.17]	[1.34]	0.31	0.05	0.12	0.26	0.12	[4.61]
Los Tanos	0.42	0.04	0.25	0.60	T.	1.16	1.38						
Luna	1.83	0.07	T.				1.70	3.66	0.30		1.15	T.	
Lykins (near)	[0.18]	[0.01]	0.00	0.46	0.41	0.93	2.50	4.93	0.68	0.73	0.05	0.12	[11.00]
Magdalena	0.50	0.09	0.14	0.55	0.52	0.65	2.11	2.86	1.70	0.39	0.67	0.10	10.28
Manuelito	0.28	T.	T.										
Maxwell (near)	0.17	0.17	0.00	0.63	0.86	0.79	0.75	3.79	0.26	0.74	0.29	0.14	8.59
Meirose	0.14	0.03	0.70	1.12	0.26	0.45	1.13	4.32	0.92	0.64	0.19	0.14	10.06
Miami Ranch	0.30	0.18	0.00	1.64	0.50	0.93	0.42	3.12	0.00	1.47	0.34	0.15	8.85
Mimbres	0.29	0.13	0.00	0.58	0.52	0.68	2.37	1.90	0.74	0.80	1.15	0.06	9.23
Mineral Hill	0.31	0.82	0.22	1.53	0.10	2.07	3.01	3.42	1.75	1.06	0.59	0.22	15.61
Monterey	0.27	0.00	0.40	0.15	0.00	0.60	0.30	2.14	0.36	0.53	0.60	0.10	5.45
Montoya	T.	T.	0.02	1.26	0.00	0.15	1.69	9.83	0.25	0.54	T.	0.14	13.88
Mountainair	0.46	1.24	0.27	1.32	0.25	0.86	2.24	3.28	0.46	0.87	0.86	0.45	12.66
Mount Dora (near)									0.00	0.13	0.13	T.	
Nara Visa	0.60	0.20	0.11	0.43	0.65	0.12	2.13	3.06	0.80	0.13	T.	0.01	7.94
Newman	T.	0.10	T.	T.	T.	1.45	0.29	1.32	0.37	0.00	0.75	0.45	4.73
Noria	T.	0.03	T.	T.	T.	0.20	0.81	1.24	0.68	0.18	0.20	0.80	4.11
Optimo						4.66	3.53	4.46	0.16				
Orange		0.00	0.00	0.12	0.05	2.57	0.25	0.93	0.01				
Orogrande	T.	T.	0.01	T.	T.	1.68	0.30	1.11	0.25	0.20	0.60	0.05	4.20
Oscara (E. F. Jones)	0.37	0.01	T.	0.10	0.16	0.27	0.54	1.54	0.06	1.01	0.75	0.26	5.05
Oscara (Agent R.R.)	0.37	0.03	0.03	0.11	0.07	0.44	0.48	1.91	0.18	0.92	0.77	0.26	8.57
Otis	0.14	T.	0.24	0.11	0.21	0.26	0.93	1.74	2.25	0.37	0.16	0.02	6.43
Otto	0.38	0.21	0.58	0.78	0.16	0.22	1.74	2.62	0.73	0.27	0.77	0.26	8.52
Pasamonte	T.	0.32	0.00	0.71	0.65	1.02	2.95	4.63	0.00	T.	T.	T.	10.28
Pastura	0.25	0.50	0.25	[0.40]	0.06	0.40	3.27	5.19	0.96	0.73	0.25	0.08	[12.34]
Placitas (near)										2.14	0.90	0.68	
Pratt	T.	T.	0.00	0.00	0.00	0.77	3.79	0.99	0.20	0.00	0.50	0.00	6.25
Putnam	0.33	0.02	0.19	0.92	0.00	0.01	1.07						
Raton	0.18	0.20	0.15	2.38	2.15	0.41	2.21	4.98	0.49	0.46	0.35	0.24	14.16
Red River Canyon	3.30	1.71	1.12	1.46	1.00	0.90	0.90	3.40	0.60	1.05	1.06	1.37	17.87
Redrock	0.36	0.00	0.00	0.72									

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Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>New Mexico—Continued.</i>													
Rosedale.....	0.33	0.09	0.49	1.11	0.55	1.71	1.03	3.96	1.89	1.34	0.95	0.11	13.56
Roswell.....	0.10	0.11	0.05	0.08	0.15	0.75	0.57	2.05	0.44	0.36	0.22	0.01	4.87
Roy.....	0.10	0.05	T.	0.71	0.69	2.46	3.33	2.67	0.50	0.22	0.19	0.13	11.80
San Jon.....	0.03	0.08	0.20	0.45	0.39	1.28	1.40	4.74	0.13	0.23	0.08	0.01	9.03
San Rafael.....	0.10	0.42	0.17	0.36	[0.50]	0.52	1.23	2.51	0.00	1.86	0.84	0.36	[8.87]
Santa Fe.....	0.76	0.08	0.55	0.99	0.30	0.56	0.82	1.91	1.12	0.40	0.86	0.30	8.65
Santa Fe Canyon.....	0.52	T.	0.27	0.31	1.00	0.60	1.70	0.84	1.33	0.68	0.46	0.03	8.91
Santa Rosa (J. L. Chapman).....	0.63	T.	0.27	0.31	1.00	0.60	1.70	0.84	1.33	0.68	0.46	0.03	8.91
Santa Rosa (Agent R.R.).....	0.48	0.00	0.68	0.52	0.00	1.25	0.57	2.97	2.08	0.64	0.46	0.11	9.76
Socorro.....	0.15	T.	0.05	0.88	0.18	1.55	0.80	1.65	0.39	1.57	0.34	0.06	7.62
Solano (F. M. Hughes).....	0.05	0.19	0.32	0.08	0.36	2.81	1.10	2.14	0.87	0.91	0.47	0.25	10.15
Solano (Agent R.R.).....	T.	0.19	0.34	0.53	0.39	2.86	0.95	1.86	0.65	1.31	0.23	0.25	9.56
Springer.....	0.10	0.07	0.00	0.22	0.50	2.10	1.10	4.45	0.10	0.20	0.35	[0.15]	[9.34]
Stanley.....	0.39	0.24	0.38	0.56	0.06	0.32	1.94	1.12	0.37	0.30	0.83	0.30	6.31
Strauss.....	0.00	0.06	0.31	T.	0.00	1.20	0.70	1.82	0.38	0.02	0.11	0.91	5.10
Swastika Ranch.....	0.38	1.52	0.48	0.55	0.08	0.68	1.55	2.74	0.97	2.76	T.	T.	T.
Taft.....	[0.30]	0.00	0.18	0.22	0.07	0.73	0.30	5.52	0.53	0.44	0.09	0.05	[8.45]
Tajique (near).....	T.	T.	T.	0.80	0.06	0.12	1.87	2.14	1.59	1.23	1.06	0.35	T.
Taos.....	1.07	1.15	0.27	0.88	0.46	0.37	1.24	1.80	0.26	0.31	0.42	0.71	8.94
Taos Canyon.....	1.53	1.16	0.79	2.51	1.24	1.65	4.37	2.59	0.81	1.38	0.72	1.12	19.57
Taylor.....	0.16	0.27	T.	0.41	0.95	1.22	2.08	2.75	0.00	1.35	0.45	0.25	9.89
Tecolote.....	0.58	0.84	0.42	0.37	0.01	1.45	0.15	3.95	0.44	0.42	1.15	0.37	10.15
Three Rivers.....	0.20	T.	0.09	0.32	0.32	0.65	0.09	1.65	0.13	0.63	0.06	0.02	4.76
Tijeras Canyon.....	T.	0.89	0.10	1.13	0.15	0.93	1.89	2.94	0.54	0.59	1.14	1.32	T.
Turans.....	T.	0.89	0.10	1.13	0.15	0.93	1.89	2.94	0.54	0.59	1.14	1.32	T.
Trementina.....	0.13	0.32	0.82	0.83	0.26	0.78	1.14	3.76	0.20	0.95	0.40	0.03	9.62
Tres Piedras.....	1.05	1.22	0.70	0.90	0.60	0.05	1.55	2.23	1.00	2.00	0.45	0.30	12.05
Truchas.....	1.00	0.80	0.50	2.15	0.50	0.80	2.10	2.10	1.00	0.90	0.50	0.60	13.55
Tucumcari (J. F. Seaman).....	0.09	0.04	0.09	0.76	0.16	0.26	1.77	5.88	0.49	0.45	0.22	0.15	10.36
Tucumcari (Agent R.R.).....	0.10	0.12	0.04	0.70	0.04	0.25	1.30	5.95	0.87	0.49	0.20	0.27	10.33
Tularosa.....	0.28	0.00	0.31	0.24	0.03	0.97	0.41	2.47	0.21	0.52	0.16	0.08	5.68
Valley.....	0.18	0.59	0.08	0.24	3.50	1.02	1.00	4.40	T.	T.	T.	T.	11.09
Vaughn.....	0.00	0.18	0.00	0.02	0.12	0.42	T.	T.	0.96	0.10	0.37	0.20	T.
Vermejo Park.....	0.47	0.32	0.14	1.41	1.65	1.78	0.61	2.26	0.73	0.08	[0.35]	0.16	[9.96]
Versylva.....	T.	T.	T.	T.	0.37	0.94	2.04	0.13	0.42	0.48	0.48	0.48	T.
Wagon Mound (near).....	T.	0.10	0.25	1.14	0.40	2.06	3.48	3.06	0.11	1.27	0.39	0.23	12.51
Winsors.....	1.03	1.10	0.59	1.20	0.99	1.76	3.22	6.07	0.90	1.02	0.89	1.16	19.93
<i>New York.</i>													
Adams Center.....	7.78	9.06	2.53	1.34	4.39	2.46	2.19	3.95	3.12	5.77	3.44	5.90	51.93
Addison.....	3.20	3.06	0.29	6.17	3.19	2.45	1.90	2.07	4.73	1.33	2.11	1.19	31.69
Albany.....	4.13	3.29	0.52	4.19	3.49	2.40	1.28	1.38	3.21	0.87	2.74	1.01	28.51
Alfred.....	T.	T.	T.	T.	3.38	1.43	4.16	2.56	3.44	2.64	3.69	3.28	T.
Allegany.....	5.31	5.01	0.73	4.75	3.73	2.10	3.84	3.33	6.12	3.73	2.42	2.78	43.85
Amsterdam.....	4.05	5.40	0.70	2.57	4.42	3.90	2.34	1.36	4.50	1.39	3.01	1.95	35.59
Anglican.....	4.14	3.75	0.54	5.92	3.12	0.42	3.28	3.36	2.09	2.62	2.35	2.09	33.68
Appleton.....	2.59	2.72	0.97	4.52	2.80	0.92	3.32	2.56	3.25	4.36	2.02	1.75	31.78
Athens.....	4.55	4.37	0.59	5.90	5.47	3.90	1.79	3.35	2.26	0.89	2.80	1.42	37.29
Auburn.....	3.07	4.00	0.30	3.67	4.88	1.81	3.39	5.78	4.06	2.84	3.96	2.12	40.48
Avon.....	2.60	3.42	0.04	3.28	3.20	2.20	4.44	2.15	5.91	2.94	2.30	0.83	33.31
Bainbridge.....	5.07	2.43	1.05	1.94	3.46	2.52	1.79	1.55	4.63	0.92	2.26	1.74	29.36
Ballston Lake.....	5.18	5.24	0.55	3.41	3.33	3.49	1.97	1.68	4.45	1.36	2.54	1.41	35.61
Bedford.....	4.32	3.15	0.40	5.20	3.35	3.42	1.48	2.44	2.06	2.34	5.08	2.12	33.36
Binghamton.....	5.12	2.57	0.08	2.09	4.12	2.27	2.08	1.10	4.56	1.46	4.02	1.91	31.93
Blue Mountain Lake.....	1.90	6.17	1.09	3.93	6.28	2.74	2.30	5.95	2.75	2.62	2.47	2.17	43.97
Bolivar.....	4.75	4.05	0.46	5.47	3.65	1.72	3.51	3.50	4.22	1.64	3.28	2.30	38.15
Brookville.....	3.83	4.30	1.16	2.32	4.37	2.39	2.40	3.35	4.39	1.04	3.22	2.60	36.57
Brookport.....	3.40	4.08	0.83	4.41	3.37	1.65	2.92	2.73	2.55	3.69	2.68	2.93	35.24
Buffalo.....	6.41	5.74	0.68	4.34	2.87	1.05	5.33	2.72	2.16	5.26	2.89	2.98	42.43
Canton.....	1.83	2.87	1.40	1.61	3.61	1.98	1.94	2.69	2.56	4.41	2.91	3.49	31.30
Cape Vincent.....	1.52	1.59	1.25	2.32	3.61	1.34	2.18	3.96	1.64	T.	T.	1.93	T.
Carmel.....	7.44	5.03	1.28	5.13	3.81	5.03	2.46	3.48	2.37	1.07	4.81	3.00	44.91
Carvers Falls.....	4.44	4.61	0.65	3.36	3.88	2.10	1.50	5.63	2.84	1.25	1.85	1.18	33.29
Chatham.....	4.67	3.05	0.97	3.59	3.60	3.17	2.20	2.97	2.91	1.02	2.66	1.47	32.28
Chazy.....	0.90	2.20	0.15	1.20	3.87	3.58	1.95	2.93	0.26	5.36	1.58	0.95	24.93
Cooperstown.....	5.23	6.68	1.23	4.27	5.05	4.24	2.04	2.34	6.82	1.32	2.73	1.88	43.83
Corinth.....	4.79	5.42	0.99	3.64	5.33	3.72	1.35	3.32	5.55	1.27	2.40	2.25	40.03
Cortland.....	3.55	3.36	0.60	2.32	4.14	1.62	2.27	1.59	4.99	1.79	6.26	2.39	32.08
Cutchoque.....	6.29	3.39	2.14	2.75	2.98	3.94	1.92	2.48	1.33	2.47	6.33	3.88	39.90
Danemora.....	2.08	3.88	0.95	2.26	5.16	2.43	3.04	2.69	2.57	3.79	1.50	4.14	34.58
De Ruyter.....	4.20	4.49	0.77	2.13	4.92	4.78	2.97	3.55	8.31	2.47	3.94	2.88	45.41
Easton.....	2.95	3.92	T.	2.64	5.24	3.12	3.09	3.45	4.02	1.37	1.70	1.61	33.11
Elba.....	4.85	5.45	1.25	5.86	3.90	1.25	3.20	2.40	4.55	3.00	3.90	5.20	44.81
Elmira.....	2.94	2.53	0.16	5.15	3.62	2.42	1.33	1.60	4.46	1.03	2.09	0.60	27.93
Fayetteville.....	2.39	3.49	0.00	1.74	3.84	2.00	2.67	3.48	3.77	1.93	3.16	1.64	30.71
Fort Plain.....	3.08	3.76	0.58	3.64	4.57	5.07	1.67	1.97	6.30	1.51	3.80	1.56	37.51
Franklinville.....	6.46	4.45	0.66	5.07	3.57	1.98	3.95	4.55	3.29	4.46	T.	T.	T.
Gabriels.....	2.65	2.56	0.75	0.89	4.75	2.86	4.29	3.10	4.15	2.41	2.22	2.22	33.35
Glens Falls.....	4.80	5.06	0.93	3.67	5.59	2.46	1.93	4.72	5.12	1.56	2.09	2.47	40.40
Gloversville.....	5.13	5.63	1.05	3.03	6.03	5.00	3.22	1.01	6.41	1.57	2.79	2.43	43.30
Greenfield Center.....	5.00	5.48	0.85	3.53	6.80	4.13	1.01	2.84	6.69	1.17	2.00	2.09	41.59
Greenwich.....	4.63	4.66	0.68	2.39	4.51	2.51	1.58	2.70	4.15	1.34	2.54	2.31	34.00
Harkness.....	1.50	3.00	0.39	1.27	3.81	2.18	3.25	2.34	1.91	2.31	1.43	1.01	24.40
Hankinville.....	3.47	3.12	0.39	6.49	4.05	1.60	3.92	2.85	3.35	2.01	2.39	1.60	35.24
Hemlock Lake.....	1.66	2.67	0.15	3.80	2.21	1.85	1.72	5.00	4.94				

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>New York—Continued.</i>													
Le Roy.....	3.57	4.52	0.77	5.56	3.19	1.48	3.81	3.17	4.99	2.92	3.10	2.67	39.75
Liberty.....	5.39	5.20	2.30	5.38	3.55	3.36	1.86	1.04	4.54	1.75	2.72	2.10	39.19
Little Falls.....	4.15	3.85	1.47	2.19	3.51	3.96	2.90	3.04	5.19	1.86	3.08	1.52	36.72
Lockport.....	3.11	4.00	0.74	4.22	2.83	1.13	3.39	3.05	2.79	4.51	2.30	3.01	35.14
Lyndonville.....	1.90	4.54	1.00	1.85	3.47	1.73	2.89	4.20	1.72	4.10	1.93	2.73	32.09
Lyndonville.....	.....	2.19	1.21	4.88	2.41	1.17	3.23	2.44	.....	.....	.....	.....	.....
Mohonk Lake.....	7.28	7.06	0.98	8.03	3.57	2.61	2.58	6.99	5.87	1.60	4.54	.....	53.09
Mohr.....	2.40	4.55	0.97	1.44	4.81	3.69	3.43	2.22	1.23	4.21	2.24	4.06	35.13
Morehouseville.....	3.80	5.05	1.08	3.59	5.44	3.77	6.40	6.02	6.45	3.65	3.21	2.07	50.44
Mount Hope.....	3.20	2.85	1.22	6.05	4.11	5.90	0.79	1.63	2.10	1.25	.....	.....	.....
Nehasane.....	4.85	8.24	2.17	2.47	5.43	4.62	3.24	5.21	3.72	4.87	3.24	5.04	53.00
Newark Valley.....	4.10	3.39	0.32	2.63	5.23	2.46	2.28	1.22	4.14	0.99	3.58	1.50	31.54
New Berlin.....	2.34	2.96	0.75	2.18	5.28	3.50	1.47	2.54	5.77	1.06	2.60	1.40	31.85
New Lisbon.....	4.05	4.19	0.96	3.01	5.49	3.41	1.25	2.56	5.45	0.89	2.71	1.90	35.87
New York City.....	5.61	4.07	0.86	4.53	1.06	5.10	0.23	2.13	1.43	3.79	4.62	1.95	35.98
North Creek.....	5.73	5.35	0.78	3.56	3.53	2.71	1.99	4.74	4.11	1.67	.....	1.98	.....
North Lake.....	.....	6.50	2.17	3.92	6.07	3.66	2.49	2.97	4.01	.....	2.83	.....	.....
Northville.....	2.90	6.72	1.56	3.13	5.02	5.44	2.14	2.46	3.99	1.45	1.95	.....	.....
Norwich.....	6.91	6.05	1.77	1.59	4.39	2.78	1.33	2.08	4.04	1.04	.....	.....	.....
Ogdensburg.....	1.80	1.86	1.36	2.09	2.96	0.98	2.41	2.43	2.17	4.03	1.98	2.76	28.86
Old Forge.....	1.32	3.84	1.00	2.31	6.51	3.00	5.16	6.60	3.48	3.96	3.66	4.51	51.35
Olean.....	5.70	4.29	0.72	4.97	3.70	2.08	3.34	2.62	5.26	3.27	3.66	2.59	42.40
Onesota.....	5.15	4.22	0.49	1.97	2.13	3.10	1.44	1.46	4.48	0.99	2.42	1.99	29.84
Oswego.....	4.07	5.02	0.92	2.00	3.57	1.69	3.41	4.65	1.77	3.34	4.50	2.05	36.99
Otto.....	2.45	3.47	0.89	3.17	3.44	1.00	4.62	3.62	3.51	3.40	1.78	1.67	33.02
Oxford.....	5.36	4.78	1.29	2.96	5.64	4.44	2.30	2.14	6.58	1.02	3.88	3.16	43.56
Oyster Bay.....	5.76	1.69	2.12	3.47	2.33	.....	.....	.....	.....	1.68	5.90	2.30	.....
Palermo.....	6.09	6.53	0.79	1.46	4.78	1.59	3.66	4.85	0.70	2.22	4.14	4.02	40.83
Perry City.....	2.74	4.37	0.59	5.32	5.03	1.34	2.28	2.28	3.12	2.78	2.95	2.76	35.96
Philadelphia.....	2.43	3.32	1.07	1.76	4.11	1.89	2.15	4.71	2.86	5.63	3.29	2.52	35.74
Plattsburg.....	1.72	2.80	0.54	1.75	4.85	2.96	.....	.....	.....	.....	.....	.....	.....
Port Jervis.....	4.34	3.47	1.20	7.98	1.86	3.53	1.27	4.73	2.08	0.90	3.78	.....	.....
Potsdam.....	3.37	3.56	0.82	1.74	3.31	1.14	1.00	3.83	2.21	5.15	2.18	2.99	31.30
Raquette Lake.....	3.99	6.21	2.43	2.87	5.93	3.30	3.20	3.87	3.60	3.75	2.63	4.39	46.14
Rochester.....	3.01	3.73	0.73	3.10	2.75	1.32	3.43	3.10	5.18	2.95	3.07	3.15	35.52
Romulus.....	3.50	4.77	0.33	3.95	4.90	1.02	1.15	3.36	2.80	1.16	1.38	1.80	30.12
Salisbury.....	5.39	6.61	2.26	3.15	5.74	4.20	3.67	2.91	4.38	2.56	3.35	2.88	47.10
Salisbury Mills.....	5.25	2.96	1.63	6.64	3.67	4.42	1.53	2.32	2.06	0.94	5.83	1.86	39.11
Searsdale.....	6.45	3.05	1.40	7.70	3.46	6.03	1.88	1.77	1.45	1.62	3.58	2.15	40.54
Setauket.....	7.62	2.96	1.56	2.85	2.89	3.51	0.78	0.89	1.19	1.59	4.86	2.87	33.57
Sherburne.....	3.98	4.02	1.03	2.29	4.46	2.28	0.73	3.09	3.15	0.84	2.19	2.11	37.14
Shortsville.....	1.48	3.32	0.06	3.92	3.18	1.52	4.61	3.44	4.55	1.16	1.60	1.57	32.20
Skaneateles.....	6.46	3.20	1.70	2.63	2.14	3.92	2.07	1.47	1.17	3.06	5.09	4.49	4.05
Southampton.....	4.91	6.17	1.06	4.33	6.63	3.97	1.28	3.93	4.78	1.38	2.49	2.01	42.94
Spier Falls.....	2.47	3.04	0.63	1.39	4.76	2.24	2.95	3.39	3.30	1.53	2.19	2.24	30.74
Syracuse.....	2.08	4.23	0.61	1.05	5.20	2.33	0.96	2.65	3.31	1.29	1.29	0.77	25.77
Ticonderoga.....	3.70	5.39	0.93	2.29	6.20	3.57	5.57	4.20	5.95	2.88	3.28	2.31	46.27
Trenton Falls.....	4.00	5.50	1.45	3.60	5.60	5.30	2.50	1.40	5.30	1.30	3.70	2.30	41.95
Tribes Hill.....	2.08	4.79	0.57	0.46	.....	.....	3.44	3.14	2.54	3.50	3.58	2.88	.....
Utica.....	4.57	5.12	0.88	2.25	3.76	3.80	3.75	2.95	5.80	2.43	4.61	2.13	41.86
Volusia.....	3.90	4.31	0.83	2.11	2.76	2.17	2.26	2.45	2.99	3.89	4.89	4.60	37.14
Wading River.....	6.70	3.72	2.53	3.93	2.44	5.78	0.56	1.06	1.19	2.04	5.17	2.99	38.83
Wanakena.....	6.06	5.27	1.41	5.29	5.05	5.61	2.77	5.93	3.62	1.03	3.16	2.02	47.52
Wappingers Falls.....	4.40	4.05	1.26	3.50	3.37	3.07	0.88	1.82	2.12	1.41	5.50	1.70	33.08
Watertown.....	.....	.....	.....	1.42	4.60	2.60	2.74	3.98	1.95	5.49	4.12	3.53	.....
Waverly.....	3.49	3.13	0.50	6.12	3.69	2.53	2.65	1.23	4.15	0.88	2.49	1.51	32.37
Wedgewood.....	4.39	3.91	0.46	6.62	4.31	1.31	1.99	2.06	3.23	1.69	2.56	1.66	34.19
West Berne.....	3.54	2.55	T.	3.53	2.36	4.38	2.26	1.52	4.30	0.98	1.91	1.29	28.62
Westfield.....	4.48	4.98	0.72	3.29	4.61	2.70	3.52	2.38	3.83	3.91	3.31	3.79	41.52
West Point.....	6.10	3.50	1.50	9.45	5.60	4.77	1.87	2.81	2.45	1.35	4.46	2.01	45.87
Windham.....	5.73	3.12	0.84	6.40	3.52	5.58	1.98	2.32	5.57	0.86	6.23	1.68	43.84
Youngstown.....	2.84	3.57	0.84	4.68	2.11	0.71	4.35	2.31	2.66	3.75	1.58	2.00	31.49
<i>North Carolina.</i>													
Altapass.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.20	3.70	.....
Andrews.....	3.95	4.56	1.94	5.72	10.06	8.42	7.02	4.28	3.52	1.43	1.74	6.05	58.64
Asheville.....	2.42	2.39	0.72	1.72	4.65	5.44	4.65	9.12	1.62	2.64	0.35	2.48	38.10
Banners Elk.....	4.80	3.98	0.62	3.12	4.29	6.81	5.78	8.87	4.78	2.91	1.39	4.40	51.62
Beaufort.....	1.77	5.22	3.01	1.19	2.41	8.95	5.30	7.83	2.20	2.51	0.87	2.60	41.86
Belhaven.....	1.94	4.79	1.66	2.84	9.81	10.91	11.11	17.67	5.98	4.15	0.48	3.40	74.74
Brevard.....	2.42	5.58	2.03	2.30	8.76	5.22	6.81	12.23	7.29	2.88	0.32	4.12	59.96
Brewers.....	3.28	4.58	0.90	3.39	3.69	10.92	7.46	3.37	1.96	5.53	0.47	4.11	49.66
Bryson City.....	3.22	4.20	1.36	4.00	8.72	5.74	7.54	3.37	2.23	0.93	1.95	5.90	49.16
Caroleen.....	3.33	4.94	1.12	1.46	5.82	6.36	3.19	.....	2.23	4.24	0.24	4.04	.....
Chalybeate Springs.....	4.19	3.36	0.84	2.94	4.39	6.20	7.37	7.64	6.19	2.91	0.56	3.71	50.30
Chapel Hill.....	3.70	3.34	1.64	5.19	3.39	.....	.....	.....	.....	5.68	2.48	4.20	.....
Charlotte.....	3.36	3.59	0.86	2.34	4.26	8.14	8.12	4.82	2.89	4.01	0.36	2.53	40.28
Chimney Rock.....	3.17	5.02	.....	1.69	6.49	6.28	3.67	16.11	3.34	5.01	0.40	4.28	.....
Clinton.....	2.58	6.57	0.77	2.65	4.21	9.20	7.88	.....	.....	.....	.....	.....	.....
Cullowhee.....	2.54	4.09	1.16	2.29	7.17	6.22	5.07	3.59	3.07	2.47	1.10	4.33	43.10
Durham (near).....	3.30	2.73	1.80	4.80	3.48	5.88	2.20	7.51	1.78	7.09	0.95	4.46	45.96
Edsonton.....	3.15	2.96	2.15	4.64	5.04	8.71	3.85	9.40	0.73	3.20	1.06	3.71	48.60
Edsonton.....	3.80	3.87	3.01	4.50	7.68	9.43	5.69	8.75	2.45	2.23	1.00	3.40	55.71
Enfield (near).....	.....	.....	.....	.....	.....	.....	3.19	6.71	1.93	3.67	0.68	3.61	.....
Fayetteville.....	3.62	3.96	1.20	4.13	5.50	9.97	4.47	5.55	2.47	3.20	0.79	2.67	47.43
Goldsporo.....	3.1												

PRECIPITATION, 1910.

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MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDRETHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>North Carolina—Continued.</i>													
Jefferson.....	2.73	3.18	0.91	1.98	3.73	10.75	5.89	6.96	2.38	4.13	1.26	2.58	46.48
Kings Mountain (near).....				2.90	5.88	8.05	7.69	7.22	2.99	2.24	0.26	2.65	45.79
Kinston.....	2.71	4.18	1.32	2.87	4.15	8.99	3.18	6.73	1.37	6.33	0.30	3.66	45.79
Lenoir.....	4.31	2.64	2.78	2.84	3.86	4.46	3.19						
Lexington.....	4.16		0.95	1.63	3.32		3.29	4.87	4.77	4.22	0.15	3.73	
Lincolnton.....	3.76	2.40	2.30	2.16	3.85	11.12	2.42	5.76	2.49	3.39	0.89	4.82	50.36
Louisburg.....	4.03	5.35	1.84	2.24	3.44	7.89	3.91	6.05	1.75	1.77	0.72	2.31	41.90
Lumberton.....	2.94	3.08	1.06	2.40	9.30	5.08	7.68	13.04	3.71	4.05	0.54	2.58	57.26
Manteo.....	3.08	4.15	1.46	2.47	5.29	8.43	6.10	5.61	4.75	3.80	0.30	5.34	54.71
Marion.....	1.98	2.02	0.21	1.33	4.70	3.04	4.81	4.75	2.73	1.21	2.19	2.18	31.15
Marshall.....	2.76	3.23	1.84	3.28	3.57	6.39	4.70	4.10	2.99	3.87	0.68	3.77	41.18
Monroe.....	3.45	3.88	1.36	1.08	4.49	6.15	4.86	5.42	1.70	4.23	0.30	3.35	40.33
Morganton.....	3.22	4.49	1.20	1.66	4.68	7.32	1.03	6.19	2.47	3.94	0.21	3.70	41.01
Mount Airy.....	3.67	4.58	1.01	3.93	3.11	8.83	6.09	3.63	2.54	5.03	1.02	3.45	46.89
Mount Holly.....	3.76	2.75	2.24	2.02	3.90	5.92	3.48	4.84	5.33	5.94	0.54	4.03	44.75
Murphy.....	4.36	2.85	2.65	3.80	9.45	8.82	11.28	6.25	3.56	1.57	1.50	6.43	62.52
Nashville.....	3.96	3.03	1.26	5.28	4.21	8.73	5.43	8.54	2.21	4.34	1.26	4.30	52.55
Newbern.....	1.99	6.25	2.19	3.31	11.80	16.33	4.59	11.25	5.06	2.56	0.49	3.28	69.10
Pinelhurst.....	2.20	4.15	0.93	1.80	3.33	7.50	3.42	4.71	0.73	5.57	0.37	3.42	38.13
Pittsboro.....	2.60			4.29	3.73	6.50		3.06	2.60	4.12	1.12		
Raleigh.....	4.05	2.80	1.01	5.01	3.92	7.87	5.65	7.75	1.19	3.54	0.69	3.65	47.13
Ramseur.....	3.19	1.72	2.04	5.45	3.23	6.37	5.79	6.01	2.23	4.10	0.56	4.22	44.91
Randleman.....	3.77	2.87	2.51	2.44	2.81	6.21	5.89	2.81	2.03	4.90	0.87	3.38	40.49
Reidsville.....	4.05	2.54	1.84	4.41	2.38	7.21	4.56	2.39	3.15	4.37	1.09	2.97	40.96
Rock House.....	4.87	8.32	1.37	3.66	12.63	6.62	8.47	9.20	5.77	3.53	0.83	6.90	72.17
Rockingham.....	2.90	6.13	1.08	2.15	3.59	7.36	4.41	6.80	2.79	2.68	0.61		
Rocky Mount.....								9.17	0.55	2.49	1.05	3.74	
Roxboro.....							2.89	4.93			1.22	4.27	
Salem.....	3.89	3.02	1.51	2.76	4.57	6.44	3.11	6.75	3.43	3.34	0.68	2.73	42.83
Salisbury.....	4.52	2.92	2.61	3.97	3.06	7.15	2.91	3.29	4.96	3.35	0.68	3.09	42.51
Saxton.....	3.34	3.91	0.95	3.48	2.94	5.53	3.94	5.84	2.58	3.07	0.69	3.17	39.35
Scotland Neck.....	2.65	3.04	1.98	5.65	4.03	6.02	4.57	5.04	1.51	2.59	0.74	3.69	41.81
Selma.....	5.30	5.95	2.52	3.45	4.65	8.70					0.85	2.20	
Settle.....	2.52	5.49	1.42	2.58	4.36	7.63	3.74	6.30	4.02	3.20	0.28	3.39	44.93
Sloan.....	2.87	6.75	0.86	2.45	7.99	8.07	3.06	9.39	2.84	1.17	0.49	2.61	48.55
Snow Hill.....	2.26	5.79	1.49	2.27	7.35	6.05	7.20	11.48	2.92	2.12	0.27	2.99	52.19
Southern Pines.....	2.96	4.00	1.03	2.88	4.95				1.32	4.18	0.48	3.30	
Southport.....	1.21	8.80	2.07	2.60	3.38	8.42	5.20	5.24	1.74	2.31	1.81	0.73	43.51
Statesville.....	4.59	5.68	1.69	2.07	5.40	5.96	4.83	6.49	3.38	4.48	0.34	3.61	48.52
Tarboro.....	2.72	3.38	1.68	5.30	4.66	7.34	5.76	9.07	2.96	1.80	0.95	3.49	49.01
Troy.....	3.38	3.50		3.40	4.57	3.89							
Waverlyville.....	3.34	3.39	2.17	2.78	5.58	5.69	5.43	6.74	1.91	2.07	1.04	3.76	43.90
Weldon.....	3.52	2.28	1.66	7.88	0.05	10.00	2.88	5.09	1.96	4.27	1.00	4.12	49.78
Whiteville.....	2.76	7.15	0.77	2.63	3.60	8.51		0.24		2.02	1.27	1.00	
Willard.....	2.13	7.45	1.21	1.65	8.16	7.65	5.71	12.29	4.72	2.29	0.61	2.76	56.53
Wilmington.....	1.07	6.61	1.02	1.61	4.61	7.52	6.96	8.47	1.88	1.72	0.92	1.30	43.72
Yanceyville.....	3.55	2.23	1.74	3.78	3.05		3.05						
<i>North Dakota.</i>													
Amenia.....	0.40	0.40	1.42	1.46	0.80	1.22	1.19	0.90	1.22	0.76	0.30	T.	10.07
Aplin.....	0.22	0.50	2.05	0.51	0.50	1.45	2.76	1.16	0.66	0.99	0.17	0.40	11.37
Beach.....	1.31	1.55	1.19	1.41	1.73	3.44	2.00	1.23	0.54	0.54	0.73	0.39	16.06
Berthold Agency.....	0.20	0.22	1.44	0.89	0.49	4.15	1.57	1.09	1.04	0.46	0.13	0.34	12.02
Bismarck.....	0.57	0.57	0.54	0.59	0.71	2.95	0.93	1.26	2.66	0.75	0.14	0.31	11.98
Bottineau.....	0.40	0.13	0.72	1.34	1.70	1.94	2.23	0.77	1.82	0.57	0.69	0.49	12.74
Broncho.....	0.54	0.60	0.68	0.54	0.66	2.84	1.38	1.34	1.12	1.44	T.	0.10	11.24
Buford.....	0.15	0.25	1.18	0.84	0.44	1.67	1.05	2.03	0.93	0.01	0.68	0.10	8.43
Cando.....	0.00	0.36	0.35	1.02	0.32	0.70	3.21	2.36	2.85	0.71	0.98	0.16	13.72
Coal Harbor.....	0.15	0.50	1.80	1.15	0.89	2.29	2.55	1.39	0.10				
Crosby.....	0.39	0.64	1.79	1.38	1.21	3.95	1.62	2.68	0.21	0.26	0.92	0.75	17.70
Devils Lake.....	0.10	0.27	0.34	1.22	0.91	1.33	1.84	2.63	2.62	0.91	0.55	0.61	13.33
Dickinson.....	0.34	0.97	0.82	1.71	1.26	3.02	2.07	1.61	0.70	0.54	0.15	0.15	13.34
Donnybrook.....	0.20	0.30	2.37	0.75	1.66	1.39	3.11	0.86	1.24	0.56	1.00	0.35	13.79
Dunseith.....	T.	0.35	1.13	0.95	1.56	1.00	1.43	0.97	1.06	T.	0.50	0.80	9.75
Edgeley.....	0.14	0.30	1.20	1.48	0.36	1.57	0.60	1.96	4.19	0.15	0.16	0.10	12.21
Edmore.....	T.	0.45	0.00	1.26	1.20	1.08	1.82	1.23	0.23	0.45	0.05	0.10	7.87
Epping.....	0.28	0.41	1.40	3.05	1.45	2.06	1.72	1.66	0.24	0.17	0.52	0.41	13.37
Forman.....	0.50	0.90	0.66	1.38	0.64	3.14	1.90	1.15	2.53	0.57	0.20	0.55	14.12
Fullerton.....	0.96	1.61	1.82	1.50	0.24	1.20	0.51	3.31	4.26	0.10	0.14	0.39	16.04
Grafton.....	0.28	0.00		1.90	0.00	0.00	T.	1.85					
Granville.....	0.12	0.18	0.96	1.49	0.81	1.70	1.97	0.60	0.78	0.41	0.52	0.56	10.10
Haley.....	1.12	0.70	0.92	1.83	2.16	5.35	1.20	1.55	3.52	0.69	T.	0.05	19.09
Hannah.....	1.80	0.30	0.47	1.40	0.79	2.08	1.81	0.71	3.16	0.99		0.60	
Hansboro.....	0.09	0.21	1.21	1.54	1.39	1.73	1.26	1.47	2.56	0.42	0.79	0.38	13.05
Hettinger.....	0.60	0.80	0.07	0.07	0.90				2.41	0.51	T.	0.04	
Hillsboro.....	0.16	0.27	0.58	2.09	0.80	0.77	1.86	1.78	3.08	0.48	0.62	0.40	12.89
Howard.....	1.10	1.30	1.50	0.65	1.77	2.15	2.42	1.59	0.38	0.20	1.10	2.00	16.16
Jamestown.....	0.40	0.40	1.53	1.45	0.15	1.72	0.83	1.98	2.79	0.04	0.15	0.38	11.82
Lakota.....	0.37	0.90	0.96	2.29	1.26	0.42	2.12	1.93	1.90	0.40	0.39	0.46	13.40
Lamoure.....	0.30	0.40	T.	0.67	0.42	1.63	3.70	0.83	2.39	0.53	T.	0.30	11.17
Lamoure.....	0.00	0.11	1.57	1.90	0.30	1.79	0.78	1.97	4.27	0.45			
Langdon.....	0.20	0.60	0.40	1.31	1.21	0.47	1.39	1.24	3.73				
Larimore.....	0.60	0.80	1.05	1.38	1.16	1.95	2.85	0.73	2.64	0.07	0.35	0.15	13.73
Leban.....	0.14	0.07	0.31	0.91	0.85	1.06	1.30	1.52	0.37	0.34	0.25	0.43	7.55
McHenry.....	0.20	0.20	2.14	1.00	1.10	1.29	1.95	0.42	0.80	0.20	1.50	0.35	11.15
McKinney.....	0.20	0.45	0.36	1.05	0.84	2.04	2.08	0.92	2.16	0.79	0.40	0.80	12.09
Manfred.....	0.35	0.77	0.40	1.63	0.91	3.32	0.77	0.94	1.56	0.64	0.13	0.13	11.55

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDRETHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>North Dakota—Continued.</i>													
Napoleon.....	0.35	0.50	0.67	1.18	0.32	1.51	0.99	3.08	3.53	0.25	0.14	0.31	12.83
New England.....		1.40	0.75	0.25	0.65	2.65	T.	1.91	0.99	0.40			
New Salem.....	0.22	1.04	0.40	0.43	0.74	2.06	1.07	2.73	1.74	1.55	0.03	0.18	12.19
Orange.....	0.90	1.10	0.32	0.54	0.80	1.46	0.18	1.50	3.71	0.26	0.12	0.27	11.16
Oriska.....		0.44	1.16	0.55	0.56	1.70	0.70	2.53	1.26	0.21	0.30	0.35	
Park River.....	T.	0.13	0.85	3.41	1.46	0.94			2.80	0.75	0.60	0.37	
Pembina.....	0.00	0.30	0.95	3.41	1.46	0.94	1.05	1.32	2.96	1.10	0.35	0.40	14.24
Power.....	0.60	0.65	0.53	1.80	0.59	0.63	0.94	0.78	1.78	0.64	0.02	0.57	9.53
Pratt.....	T.	0.00	2.18	1.66	0.98	1.87	1.63	1.03	1.54	0.85	0.60	1.50	13.84
Schafer.....	0.28	0.73	1.28	1.89	0.89	2.07	1.90	2.45		0.13			
Steele.....		0.40											0.40
Towner.....								0.85	1.20	0.50	0.30	0.30	
University.....	0.20	0.13	1.22	0.48	0.50	0.63	0.64	0.89	3.14	0.28	0.87	0.40	9.38
Wahpeton.....	T.	1.50	0.16	1.63	0.51	2.74					0.02	0.55	
Walhalla.....		T.				0.37	0.94	0.86	4.48			0.80	
Washburn.....	0.08	0.12	0.76	0.62	0.71	2.67	3.22	1.21	0.73	1.41	0.16	0.21	11.90
Westhope.....	0.10	0.02	2.29	1.77	1.39	2.18	2.51						
Williston.....	0.27	0.34	1.31	1.33	1.18	1.88	1.09	1.78	0.12	0.04	0.66	0.28	10.28
Willow City.....	0.65	T.	0.94	1.25	0.89	1.40	1.27	1.26	1.80	0.33	0.30	0.20	9.69
Wishek.....	0.40	0.55	0.41	0.30	0.90	2.47	0.56	1.31					
<i>Ohio.</i>													
Akron.....	2.97	3.68	0.49	2.98	4.92		2.48	0.77	3.29	4.11	1.58	1.85	
Amesville.....		4.22	0.67	2.95	3.58	3.03	3.21	2.50	1.03	1.74	1.60	2.77	
Ashtabula.....			0.29	3.27									
Bangorville.....	4.86	5.26	0.40	4.57	5.30	3.50	2.44	1.45	3.37	7.21	1.37	2.78	43.61
Bellefontaine.....	2.78	3.93	0.07	3.62	3.07	1.77	3.19	1.49	6.89	6.45	1.91	2.89	38.05
Benton Ridge.....	3.49	2.58	0.44	5.23	3.05	1.03	2.48	1.71	8.02	5.02	2.77	2.06	37.88
Bladensburg.....	5.00	4.25	0.10		4.04	1.75	2.08	0.53	4.22	5.15	1.25		
Bowling Green.....	3.55	2.38	0.25	5.86	3.03	2.19	1.91	1.26	4.90	4.31	2.06	1.60	33.30
Bucyrus.....	3.35	4.60	0.60	4.62	4.22	2.69	1.60	1.30	5.92	6.13	1.95	1.65	38.63
Cadiz.....	6.89	5.53	0.24	2.81	3.86	2.44	5.28	2.33	3.47	1.61	1.75	3.19	39.45
Cambridge.....	4.98	5.33	0.14	2.36	3.65	2.67	1.78	2.10	3.64	1.63	1.25	2.30	31.92
Camp Dennison.....	3.48	4.65	0.51	1.86	4.03	4.80	4.56	1.43	3.31	5.33	1.74	2.03	37.73
Canal Dover.....	5.16	3.80	0.73	2.75	4.21	2.36	4.32	2.11	1.88	3.38	1.17	2.52	34.39
Canton.....	4.82	4.49	0.51	3.02	2.33	3.15	4.37	1.47	3.39	4.28	1.90	2.52	36.25
Cardington.....	3.67	4.96	0.22	4.36	4.30	2.29	3.46	1.13	3.10	7.24	1.37		
Chillicothe.....	1.87	4.43	1.13	2.37	2.40	3.75	2.50	0.14	2.15	2.81	1.22	2.37	27.64
Cincinnati.....	3.71	4.70	0.39	1.65	3.30	3.01	3.62	1.26	3.50	5.78	1.35	2.15	34.42
Circleville.....	3.44	5.96	0.12	4.47	3.56	2.97	4.43	1.33	2.43	2.59	0.92	2.55	34.77
Clarington.....	6.21	5.48	0.30	3.06	4.82	2.13	4.90	1.37	2.30	2.08	1.72	3.39	37.76
Cleveland (Weather Bu.).....	4.29	3.98	0.41	3.34	4.22	2.01	0.94	1.08	4.09	3.79	3.08	2.42	33.65
Cleveland (Odenbach).....	5.62	4.98	0.25	3.67	5.01	1.98	1.49	1.32	5.32	5.70	3.41	2.32	41.07
Columbus.....	5.11	5.05	0.28	2.52	4.10	2.93	2.40	0.42	3.66	5.22	0.79	2.31	34.79
Columbus Reservoir.....	4.13	2.89	0.32	2.41	4.08	2.17	4.06	0.38	4.18	5.24	0.97	2.04	32.87
Conneaut.....							4.45	1.07	3.23	6.69	3.85	3.01	
Coshocton.....	5.04	3.71	0.06	2.58	3.47	4.87	2.50	2.08	5.93	4.28	1.53	2.37	38.42
Dayton.....	3.15	4.66	0.05	1.85	4.59	2.11	3.62	0.47	3.35	7.08	0.96	1.65	33.84
Defiance.....	1.78	1.34	0.09	3.04	2.02	2.67	2.16	2.20	4.45	1.93	1.51	1.31	24.40
Delaware.....	3.84	4.56	0.24	4.45	4.27	2.37	2.50	0.53	4.40	7.24	1.22	2.22	37.99
Demos.....	5.60	2.36	0.13	2.30	3.86	1.60	1.81	1.53	3.34	1.92	1.55	3.07	32.30
Dennison.....	5.47	5.70	0.15	2.51	4.13	3.42	4.01	2.27	3.99	2.27	1.60	2.38	38.80
Findlay.....	3.96	3.90	0.27	5.29	2.35	1.33	2.62	1.11	6.53	5.80	2.31	2.08	37.55
Frankfort.....	4.20		0.00	2.21	3.67	5.52	3.03	1.45	2.87	1.90	1.24	1.95	
Fremont.....	3.64	2.68	0.20	7.52	2.53	2.19	1.91	2.53	4.98	5.00	2.22	2.13	37.53
Garrettsville.....	4.56	3.94	0.33	3.18	4.10	1.62	2.80	0.97	4.59	3.71	3.13	2.70	35.63
Granville.....	5.58	5.98	0.18	2.96	4.84	2.43	2.62	1.48	3.84	4.68	1.46	2.68	38.95
Gratiot.....	6.64	4.40	0.18	2.69	3.46	2.69	2.21	1.31	3.90	2.75	0.97	2.43	33.63
Green.....	5.91	5.09	0.68	3.22	4.26	5.37	9.51	2.15	3.79		1.42	2.15	
Green Hill.....	4.75	3.52	0.27	1.98	2.49	2.41	6.09	1.35	3.29	3.18	1.45	2.07	32.82
Greenville.....	3.44	3.91	0.02	3.28	3.24	2.24	2.06	0.54	7.29	5.54	2.00	2.41	35.97
Hodges.....	3.78	3.20	0.29	3.07	3.37	1.62	1.75	4.01	6.35	2.27	1.98	2.77	34.06
Hillhouse.....	4.28	3.37	0.31	3.13	3.37	2.57	1.92	1.47	3.33	4.60	4.60	3.34	38.71
Hillsboro.....	5.49	6.46	0.04	2.85	4.32	6.49	7.22	3.15	3.83	2.95	2.59	3.38	48.75
Hiram.....	3.73	3.73	0.23	3.08	4.61	1.67	1.53	1.02	4.63	3.97	3.22	2.65	34.07
Hudson.....	4.28	4.19	0.69	4.39	4.27	2.10	4.01	3.54	6.75	5.37	3.15	1.95	44.69
Ironton.....	5.06	3.69	0.46	4.46	5.13	6.43	6.88	1.39	2.90	1.67	1.74	3.21	43.02
Jacksonburg.....	3.69		0.05	2.35	4.70	1.71	3.70	0.98	3.71	7.98	1.38	2.97	
Kenton.....	4.51	3.34	0.34	4.01	3.39	1.84	3.92	1.92	3.65	5.62	2.52	2.60	37.56
Killbuck.....	5.18	3.53	0.44	2.91	5.22	3.14	3.65	1.75	1.94				
Lancaster.....	5.96	5.21	0.10	3.32	3.70	4.63	5.13	1.69	2.61	1.50	1.36	1.90	37.11
Lawshe.....	5.27	5.63	0.78	2.87	3.41	6.96	5.20	1.55	2.18				
Lima.....	5.57	3.73	0.13	3.77	3.59	2.53	2.21	1.83	5.27	4.95	2.47	1.50	37.55
McConnelsville.....	7.00	4.74	0.14	3.28	5.98	2.86	1.62	2.36	0.67	2.02	1.78	2.47	34.60
Marietta.....	6.00	4.09	0.19	2.19	4.39	1.92	2.25	1.93	1.82	1.41	1.79	3.27	31.25
Marion.....	4.97	5.73	0.56	3.85	4.54	2.31	2.31	1.31	3.50	7.94	2.44	2.96	42.62
Medina.....	4.14	4.33	0.48	4.04	4.28	1.91	1.70	1.20	5.35	4.59	1.89	2.43	36.43
Millford.....	4.27	4.84	0.36	2.55	3.69	2.12	2.16	0.27	4.17	5.57	1.68	1.98	33.54
Millington.....	5.50	3.37	0.08	2.62	6.21	2.69	4.93	1.89	1.44	2.83	0.95	2.57	35.06
Millport.....	4.88	3.19	0.15	2.04	3.84	3.24	4.36	2.44	5.08	2.37	1.23	2.25	35.07
Montpelier.....	2.70	2.31	0.18	3.90	2.28	1.42	5.47	1.87	3.02	1.71	2.02	1.60	28.57
Napoleon.....	3.43	1.86	0.20	5.44	3.07	2.25	2.61	1.92	3.36	1.87	2.43	1.72	80.16
Nellie.....	3.61	3.65	0.38	2.20	3.90	2.17	1.48	0.98	3.37	4.60	0.53	2.42	26.29
New Alexandria.....	6.55	3.00	T.	1.60	4.80	2.20	2.10	2.35	4.65	2.55	1.40	2.80	34.00
New Berlin.....	4.82	4.04	0.40	3.54	3.68	3.14	3.59	1.63	4.09	4.27	2.88	2.97	39.05
New Bremen.....	5.59	3.22	0.02	2.40	2.91	2.44	4.37	3.19	5.22	5.48	2.20	1.77	36.81
New Waterford.....	5.86	3.50	0.20	2.68	3.26	2.12	1.83	2.26	4.03	2.58	2.38	1.85	32.55
North Royalton.....	4.40	3.75	0										

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Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Ohio—Continued.</i>													
Plattsburg.....	3.98	4.55	T.	2.09	5.47	3.56	4.18	0.32	4.19	7.04	1.34	2.35	39.67
Pomeroy.....	5.44	4.19	0.03	2.79	3.40	3.15							
Portsmouth.....	6.46	5.47	0.41	3.66	4.35	5.18	3.33	3.23	3.94	1.99	1.57	3.33	42.92
Prospect.....					3.89	1.85	3.43	1.10	2.26	5.89	1.65		
Rittiman.....	2.53	3.54	0.50	2.04	4.23	2.10	1.94	1.04	3.38	4.18	2.14	1.33	29.01
Sandusky.....	3.84	2.97	0.28	6.24	1.89	1.74	1.76	2.28	3.30	4.91	1.55	1.72	32.48
Shenandoah.....	3.28	3.27	0.70	4.43	3.49	3.19	3.84	1.17	4.93	4.69	2.26	2.15	37.40
Sidney.....	3.30	3.90	0.04	3.27	4.61	2.07	2.70	3.33	5.27	6.25	1.95	2.40	39.18
Somerset.....	4.33	4.33	0.08	3.44	5.12	4.69	2.77	1.89	1.70	2.93	0.82	1.63	33.83
Springfield.....	3.84	4.84	0.01	2.86	4.46	1.78	2.21	0.42	0.49	6.74	1.11	2.27	37.03
Summerfield.....	6.59	5.09	0.22	3.46	4.14	2.23	3.22	2.04	2.24	1.27	1.50	2.83	34.83
Syracuse.....											1.56	2.65	
Thurman.....	4.32	3.24	T.	2.36	3.96	3.48	4.67	1.74	0.59	1.59	1.42	3.95	31.34
Tiffin.....	4.01	3.83	0.37	5.92	2.38	2.39	3.72	2.84	6.85	5.03	2.02	2.57	42.43
Toledo (Weather Bu.).....	3.76	2.32	0.05	5.79	2.97	0.97	3.29	1.95	1.76	2.34	2.22	1.71	29.13
Toledo (Krance).....	3.78	1.97	0.04	5.15	2.87	1.27	3.20	1.91	1.95	1.97	1.77	1.67	27.55
Upper Sandusky.....	4.43	3.70	0.45	3.82	3.41	1.95	1.80	2.59	2.67	5.22		2.81	
Urbana.....	2.95	4.24	0.04	4.12	5.14	1.64	4.27	1.16	0.25	6.67	1.20	2.29	39.97
Vickery.....	3.88	2.50	0.33	5.83	2.16	2.51	1.83	1.82	4.96	5.12	1.82	1.99	35.74
Warren.....	4.52	5.29	0.31	3.15	3.05	1.30	2.32	0.84	5.34	3.45	3.41	3.77	37.05
Wauson.....	3.16	1.94	0.12	5.62	2.68	1.69	4.08	2.56	4.29	1.91	2.61	1.80	32.46
Waverly.....	6.65	4.47	0.03	3.07	3.42	5.12	3.18	1.64	3.61	2.42	2.44	2.88	38.93
Waynesville.....	3.20	4.51	T.	1.93	4.34	1.66	5.56	0.61	2.51	8.03	0.89	2.02	35.26
Wellington.....	3.40	4.36	0.29	4.84	3.63	2.47	1.62	0.97	5.62	4.39	2.06	2.06	35.71
Willoughby.....	4.93	4.00	0.81	3.73	3.17	2.56	1.14	0.86	3.93	2.50	3.63	1.99	32.75
Wooster.....	5.29	4.41	0.54	3.22	4.87	2.57	1.12	0.95	2.59	5.24	2.36	2.29	35.45
Youngstown.....	4.57	3.99	0.37	2.59	2.17	1.71	4.60	1.99	6.05	3.75	2.21	4.71	39.31
Zanesville.....	4.85	4.96	0.15	1.75	3.49	2.60	1.88	1.60	1.81	2.20	0.83	2.31	28.46
<i>Oklahoma.</i>													
Ada.....			0.27	4.92		1.51				1.64	1.00	0.55	
Alva.....		0.90	T.	2.82	1.59					0.10	0.00		
Apache.....	1.19	0.82	0.44	1.96	2.97	1.28	1.15	1.76	2.83	1.40	0.02	0.11	15.93
Arapaho.....	1.63	0.24	0.25	0.45	2.95	3.00	1.46	4.67	0.12	0.54	0.00	T.	14.71
Ardmore.....	1.75	1.63	0.30	3.10	3.43	0.18	4.62	2.77	1.26	1.15	0.50	1.85	22.44
Bartlesville.....	1.20	1.31	0.43	2.47	4.65	1.70	0.58	3.79	1.58	2.61	0.10	0.45	20.85
Beaver.....	0.65	0.75	T.	2.51	1.02	1.37	3.19	5.53	0.15	0.47	0.34	0.23	18.61
Blackburn.....	1.58	1.10	0.21	6.43	0.89	2.75	0.10	5.28	4.42	2.04	T.	0.33	28.13
CACHE.....	1.30	0.20	0.79	1.70	2.44	0.52	0.80	2.06	2.64	1.82	0.00	0.80	14.47
Cache.....	1.12	0.25	0.61	3.81	7.88	1.92	2.46	6.94	0.74	1.15	0.86	0.67	28.41
Chandler.....	1.00	0.50	0.43	4.72	3.31	1.55	0.68	4.07	0.82	1.68	T.	0.02	18.38
Chastanoga.....	0.90	0.63	0.80	2.46	2.59	1.92	1.84	2.33	1.09	2.09	0.06	0.42	17.13
Chickasha.....	1.00	0.77	0.62	3.61	3.33	0.99	2.62	1.17	1.53	1.50	T.	0.13	17.27
Cloud Chief.....	0.77	T.	0.48	T.	3.98	1.74	0.20	1.40	0.35	0.63	T.	T.	9.55
Dacoma.....	0.49	0.59	0.00	1.45	3.94	1.60	0.67	4.49	0.27	0.13	0.60		
Durant.....	1.07	0.65	1.34	2.94	3.59	0.32	1.86	3.36	1.79	0.72	0.72	1.35	19.71
Eldorado.....	6.58	T.	1.12	0.77	4.98				1.52	0.62	0.09	0.33	
El Reno.....	1.03	0.79	0.71	1.97	3.19	2.52	0.49						
Enid.....	0.85	0.66	0.00	1.61	4.12	1.12	0.14	5.23	0.07	0.53	0.00	0.10	14.73
Erick.....	0.02	T.	0.94	2.09	1.46	1.32	0.68	3.52	T.	0.29	T.		9.72
Fairland.....	2.37	1.55	0.53	2.54	5.56	4.39	3.12	6.04	3.69	2.79	0.02	0.95	36.40
Fort Gibson.....	1.01	2.66	0.83	5.12	7.00	2.03	7.27	3.62	1.75	2.22	0.08	0.75	34.43
Frederick.....	0.69	0.16	0.72	1.01	2.47	2.02	1.27	2.46	1.42	1.75	0.03	0.40	14.40
Gage.....	0.40	0.17	T.	1.20	0.70	1.63	1.61	4.66	0.04	1.07	0.00	0.10	11.58
Goodwell.....		0.00	1.83	0.80	0.26	3.69	2.07	6.55	0.02	0.05	0.03		
Guthrie.....		0.65	0.54	4.06		0.35	1.50	2.96	1.55	0.80	T.		
Guymon.....	0.30	0.70	0.00	1.26	2.00	1.45	4.28	2.57		0.25	0.00	0.28	
Harrington.....	0.00		0.35	3.20	2.31	0.40	1.87	2.78	0.60	0.45	0.00	0.00	
Hartshorne.....	1.20	1.00	1.35	2.65	6.85	3.28	3.15	2.05	1.15	1.91	0.29	0.83	25.71
Healdton.....	0.28	0.62	0.09	4.59	4.86	0.84	7.23	1.84	0.76	1.03	0.88	1.57	24.79
Helena.....		0.72	T.	1.04	3.10	1.55	0.30	5.94	0.15	0.02	0.00	0.23	
Hennessey.....	0.54	0.75	0.09	0.85	4.30	1.67	T.	10.79	0.98	0.90	0.00	T.	19.97
Hobart.....	1.40	0.05	0.55	0.44	3.76	0.95	0.21	2.31	1.78	1.11	0.11	0.05	12.72
Holdenville.....	0.35	0.90	0.20	4.33	5.64	0.44	4.20	2.49	0.55	1.06	0.32	0.40	21.38
Hooker.....	0.25	0.25	T.	1.11	0.99	1.03	3.22	2.39	0.06	0.02	0.03	0.03	9.39
Hurley.....	0.30	6.25	T.	0.75	4.60	T.	1.24	3.90	0.20	0.07	T.	T.	11.31
Idabel.....		4.59	1.49	3.58	3.17								
Jefferson.....	2.66	0.38	0.00	2.06	2.55	1.29	0.39	3.45	0.52	0.08	0.00	0.30	13.70
Kenton.....	0.10	0.40	0.02	0.69	1.50	0.68	3.63	3.16	0.11	0.03	0.19	T.	10.51
Kingfisher.....	0.91	0.36	1.08	1.29	3.81	2.42	1.90	3.55	0.29	0.72	T.	0.22	16.55
McAlester.....	1.44	1.27	1.22	3.60	6.13	1.88	1.53	4.06	0.97	3.49	0.60	0.84	27.03
McComb.....	0.05	0.60	0.13	2.50	3.83	1.04	1.00	2.66				0.00	
Mangum.....	0.25	0.38	0.61	1.07	2.77	0.30	0.54	2.66	1.31	0.87	0.10	T.	16.86
Marlow.....	0.28	0.74	0.47	4.10	3.78	1.38	2.56	3.70	2.78	3.42	0.53	0.23	23.97
Meeker.....	1.59	0.68	0.31	5.75	2.36	0.45	2.80	5.23	0.70	1.85	T.	0.00	21.78
Muskogee.....	0.72	1.42	0.70	4.29	0.26	1.53	8.16	3.50	2.28	1.77	T.	0.98	31.61
Mutual.....	0.64		0.00	1.89	1.68	1.90	0.41	4.24	0.37	0.31	0.00	0.00	
Neola.....	1.24	0.22	0.49	1.43	2.78	0.88	1.99	3.26	1.61	1.00	0.00	T.	14.60
Newkirk.....	1.92	0.60	0.40	1.19	3.32	1.82	2.02	3.25	0.60	0.14	T.	0.28	15.54
Norman.....	1.11	1.27	0.71	4.28	4.17								
Oakwood.....	0.51	0.31	0.21	0.98	4.21	2.84	0.66	6.41	0.06	0.22	0.00	0.03	16.54
Oksene.....	0.57	0.23	0.37	2.11	2.68	2.38	0.78	9.21	T.	0.73	T.	0.04	19.10
Oklahoma.....	0.39	0.53	0.65	4.31	2.72	1.09	0.94	3.08	1.72	1.31	T.	0.03	17.27
Oklmulgee.....	T.	0.45	0.20	3.57	5.57	1.55	4.17	2.11	3.04	1.79	T.	0.97	23.42
Panola Valley.....				2.72	5.13	1.61	4.01				0.60		0.58
Pawhuska.....	1.11	1.22	0.40	2.13	4.64	2.21	1.75	4.30	1.25	2.62	T.	0.12	21.75
Perry.....	1.15	0.71	0.18	3.12	3.84	1.27	0.63	8.20	0.85	1.57	T.	0.08	20.50
Ravin.....	1.12	0.52	1.32	4.80	4.12	0.36	2.85	1.81	0.31	0.93	0.48	1.69	20.37
Sac and Fox Agency.....	0.46												

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Oklahoma—Continued.</i>													
Waukomis.....	0.45	0.20	0.29	0.85	3.25	1.71	0.13	7.67	T.	0.95	T.	0.06	15.56
Waurika.....	0.10	0.45	0.36	1.07	2.52	2.11	2.82	4.75	0.67	1.06	0.62	1.18	17.71
Weatherford.....	0.82	0.20	0.56	0.78	3.28	1.51	1.35	4.82	2.11	0.83	T.	0.05	16.29
Webbers Falls.....	0.50	1.84	1.20	3.96	8.14	1.30	6.65	3.23	1.07	6.50	0.10	2.08	36.57
White Eagle.....	1.12	0.07	0.26	1.37	6.17	1.55	2.42	3.05	2.40	1.40	0.00	T.	20.44
Woodward.....	0.46	0.22	T.	1.97	0.53	1.17	1.62	7.65	T.	0.38	0.00	0.01	14.01
<i>Oregon.</i>													
Albany.....	6.54	6.82	1.63	1.89	1.75	1.16	0.00	0.08	1.22	2.64	10.68	3.89	38.30
Ana River.....	0.37	1.14	0.12	0.21	0.46	0.44	0.12	0.00	0.64	0.69	0.62	0.12	7.19
Ashland.....	1.27	2.24	1.05	1.33	0.77	0.22	0.05	0.00	0.59	1.19	6.59	2.52	17.82
Astoria.....	14.69	12.72	5.34	5.05	2.87	3.45	0.04	0.58	3.39	8.97	15.85	10.90	86.85
Bagley's Ranch.....	0.35	0.55	2.31	0.51	1.31	0.40	0.35	0.07	1.61	0.41	1.18	0.43	9.48
Bay City.....	15.24	15.25	4.66	5.24	3.32	1.70	.....	.....	3.75	8.00	18.38	7.40	.....
Bear Creek.....	0.78	1.35	0.98	0.15	1.03	1.06	0.03	0.00	0.82	1.17	3.33	0.67	11.37
Bear Valley.....	1.60	1.99	1.50	0.10	0.30	0.20	0.12	T.	1.35	1.49	4.10	2.45	15.20
Beech Creek.....	2.00	2.02	2.53	0.69	1.15	0.61	0.11	T.	1.53	1.41	4.93	1.43	18.81
Bellfountain.....	0.70	8.29	2.29	2.56	0.77	0.84	T.	0.06	0.66	3.71	15.65	7.00	47.99
Bend.....	0.54	.....	.....	.....	.....	.....	.....	.....	.....	0.86	1.10	4.35	0.99
Big Basin.....	1.25	1.41	0.91	0.02	0.52	0.51	T.	T.	1.05	0.65	3.70	1.95	11.97
Birch Creek.....	0.65	0.70	.....	0.36	0.75	0.64	0.02	0.01	0.26	0.40	.....	.....	.....
Black Butte.....	4.45	4.15	2.95	2.02	3.47	1.95	0.25	0.05	1.15	2.10	10.15	6.75	39.44
Blalock.....	1.24	0.86	0.15	0.24	0.63	0.26	T.	T.	0.02	0.13	2.58	0.92	7.03
Blue Mountain Sawmill.....	5.28	5.93	3.50	3.00	2.90	1.14	0.80	0.39	1.00	3.46	6.48	4.21	38.09
Buena Vista.....	2.00	3.88	1.08	0.07	0.25	0.01	0.01	0.04	0.07	0.22	0.43	2.45	10.43
Burns.....	1.29	1.97	1.74	0.32	0.34	0.04	0.03	0.00	0.33	1.16	3.33	1.27	12.32
Burns Mill.....	2.75	3.88	2.90	0.96	0.92	0.38	0.10	0.00	0.32	1.07	4.03	1.55	18.86
Butte Falls.....	4.45	7.12	1.74	1.88	1.76	0.78	0.02	0.06	1.08	2.44	12.59	4.11	37.97
California Gulch.....	1.52	3.64	1.96	1.34	2.35	1.46	0.00	0.00	0.02	1.00	4.23	1.02	19.14
Canyon City.....	1.01	1.56	1.64	0.79	1.04	0.53	0.06	T.	1.10	.....	3.14	1.42	.....
Cascade Locks.....	13.42	14.81	7.53	5.14	5.23	2.13	0.00	0.06	0.86	8.32	18.80	9.51	85.81
Cascadia.....	7.94	8.43	4.91	3.35	3.35	1.93	T.	0.40	1.19	3.93	15.01	7.93	57.40
Casadero.....	9.12	10.75	4.37	3.77	2.76	1.61	T.	0.26	1.18	4.56	10.15	5.88	64.41
Christmas Lake.....	0.37	0.97	0.43	0.34	0.70	0.63	0.66	0.00	0.90	0.33	2.93	0.86	9.12
Columbia Mine.....	5.95	10.27	1.93	0.77	4.53	0.39	0.33	0.06	0.95	2.29	6.30	3.60	37.37
Condon.....	0.61	0.94	0.67	0.34	0.86	1.50	0.04	T.	0.47	1.20	2.26	1.30	10.19
Coquille River.....	9.71	7.20	2.19	3.17	1.07	1.21	T.	0.07	0.12	4.07	14.52	5.18	48.51
Cornucopia.....	6.09	7.09	3.43	2.23	2.84	0.32	0.89	0.16	2.31	2.83	11.16	4.81	44.16
Corvallis.....	.....	7.54	1.21	2.47	0.83	1.73	T.	0.01	0.85	2.56	10.45	4.33	.....
Cracker Creek.....	5.30	7.40	0.20	0.13	0.15	0.05	0.01	0.01	0.08	0.29	3.90	3.26	20.69
Dayville.....	0.29	1.53	0.80	0.33	0.82	0.42	0.12	0.01	0.54	0.64	2.54	0.57	8.61
Deadwood.....	.....	.....	.....	5.57	1.80	1.60	0.13	0.02	0.58	7.46	24.06	11.17	.....
Doraville.....	7.88	8.82	4.28	3.84	2.63	2.16	T.	0.59	1.99	5.02	10.59	5.35	53.15
Drain.....	6.37	5.10	2.86	2.30	1.81	1.12	0.00	0.00	0.62	3.01	11.20	5.22	39.61
Dufur.....	1.41	2.01	0.85	1.15	1.85	1.24	0.08	T.	0.30	0.63	3.88	0.89	14.24
Duncan.....	6.50	4.40	1.12	1.68	2.25	0.80	0.45	1.10	0.60	2.05	6.03	3.69	33.60
Echo.....	1.18	1.07	0.98	0.21	0.58	0.43	T.	0.00	0.33	0.29	1.99	0.77	7.83
Ella.....	0.84	0.61	0.33	0.36	0.95	0.27	0.03	0.00	0.44	0.27	1.95	0.67	6.72
Embury.....	1.30	1.05	0.09	0.03	0.14	0.22	0.70	0.00	1.70	2.16	4.62	.....	.....
Eugene.....	3.49	4.18	1.71	1.74	2.47	1.03	0.00	T.	1.08	2.37	10.51	4.62	33.20
Fairview.....	8.85	8.91	3.40	4.43	1.22	2.26	0.12	0.25	0.44	4.49	17.38	7.67	59.42
Falls City.....	12.44	11.60	3.01	5.38	1.11	1.33	0.09	0.06	1.01	5.74	18.59	8.31	68.67
Fir Glen.....	6.79	7.26	2.03	3.10	1.03	0.69	T.	0.00	0.36	3.20	14.98	7.51	46.95
Florence.....	12.82	11.37	4.01	4.65	1.58	1.79	0.02	0.07	0.52	4.49	17.30	6.41	65.03
Forest Grove.....	11.45	7.13	1.09	3.19	1.89	.....	.....	.....	.....	3.96	13.76	5.39	.....
Fort Rock.....	1.05	1.28	0.32	0.26	0.23	0.73	0.23	0.00	1.24	0.30	3.40	0.42	9.46
Galice.....	7.45	4.73	1.39	1.07	0.68	0.64	0.00	0.00	0.53	3.54	16.74	6.57	43.34
Gardiner.....	13.13	10.85	3.29	4.92	1.80	1.45	0.00	0.14	0.44	4.58	21.37	8.21	70.23
Gibbon.....	3.65	4.28	2.65	2.07	2.62	0.95	0.47	0.61	0.72	2.77	5.77	2.58	29.14
Glencoe.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Glendale.....	8.00	6.10	1.63	3.01	0.82	0.59	0.05	0.00	0.40	0.38	1.77	0.37	27.55
Glenora.....	22.79	21.16	8.16	7.19	2.89	2.32	0.01	0.21	2.70	15.78	27.02	11.55	121.78
Gold Beach.....	16.83	8.73	4.09	3.05	3.31	2.26	0.00	0.00	0.02	3.39	17.49	8.74	67.91
Golden Falls.....	13.46	14.03	5.61	5.16	2.40	2.22	0.02	0.10	0.37	5.50	22.74	10.80	82.41
Grande Ronde.....	.....	.....	.....	.....	.....	1.10	0.00	0.05	1.27	4.31	10.12	.....	.....
Graute.....	1.97	2.91	2.21	0.40	2.57	T.	0.56	T.	0.28	.....	.....	.....	.....
Grant's Pass.....	3.97	2.70	1.72	0.78	0.65	0.34	0.60	0.00	0.47	1.56	11.26	4.44	27.89
Grass Valley.....	0.81	1.33	0.87	0.56	1.72	0.62	0.00	0.00	0.70	0.20	2.73	1.27	10.61
Greenhorn.....	4.96	5.81	2.55	1.13	1.72	0.68	0.21	0.09	0.43	2.41	9.01	3.75	32.77
Grindstone.....	1.91	2.30	1.08	0.35	1.70	0.87	1.26	0.00	.....	.....	.....	.....	.....
Gumboot.....	2.90	2.32	1.42	2.69	1.87	0.32	0.60	0.66	1.34	1.55	5.43	1.82	22.32
Gurdane.....	2.32	2.40	1.39	1.59	1.91	0.80	0.17	T.	0.75	0.54	2.55	0.78	15.20
Happy Home.....	15.12	12.31	3.26	3.02	2.92	2.26	0.10	0.06	0.53	4.60	21.23	12.11	77.86
Hay Creek.....	1.45	0.62	0.76	0.55	2.88	1.36	0.04	0.00	0.82	1.07	3.82	1.08	14.45
Hazel Dell.....	3.49	6.13	2.44	1.61	2.82	1.70	T.	T.	4.47	1.96	11.33	5.01	37.65
Headworks.....	12.03	12.43	7.27	5.03	5.01	2.59	0.00	0.00	.....	6.28	12.78	8.00	.....
Heppner.....	1.41	0.68	1.20	0.73	0.93	0.58	0.02	0.00	0.30	0.42	1.67	0.79	8.73
Herrington.....	0.80	0.69	1.02	0.34	0.62	0.49	0.01	T.	0.37	0.25	1.73	0.46	6.78
Hileard.....	1.21	3.31	1.90	1.40	2.08	0.60	0.25	0.40	0.70	1.22	3.08	1.75	17.00
Hood River.....	1.50	4.55	0.56	0.45	1.46	0.60	0.00	T.	0.45	2.05	7.70	2.18	21.47
Hoover.....	9.89	15.69	5.10	3.24	3.58	1.47	0.09	0.24	1.13	6.02	18.85	9.25	74.40
Howardville Station.....	3.52	6.22	3.70	2.41	2.82	0.65	0.17	0.38	0.74	2.34	6.22	3.11	32.28
Huntington.....	0.30	0.45	1.45	1.95	1.25	0.00	.....	.....	.....	.....	.....	0.15	.....
Ibex Mine.....	3.95	6.46	1.84	1.13	1.90	0.36	0.14	0.07	0.49	1.77	5.26	3.29	26.66
Ironsides.....	1.68	1.79	1.13	0.07	0.74	0.17	0.48	0.00	1.10	0.92	2.95	0.50	11.53
Jacksonville.....	2.37	2.69	0.77	0.59	1.46	0.44	0.22	0.00	0.96	1.59	9.33	3.41	23.83
Joseph.....	2.04	2.30	2.59	2.24	1.89	1.14	0.72	0.23	1.95	2.04	8.39	1.99	21.55
Klamath Agency.....	1.46	3.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Klamath Falls.....	1.66	2.19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
La Grande.....	2.18	2.86	2.61	1.62	2.67	0.46	1.16	0.29	0.49	1.62	3.14	2.50	21.06
Lakeview.....	1.26	2.30	0.00	0.00	0.10	0.01	0.00	0.04	.....	.....	.....	.....	.....
Lilypfen.....	3.25	3.46	1.51	1.65	1.74	0.52	0.19	0.00	1.11	2.10	9.81	4.13	29.47
Long Creek.....	.....	2.01	1.33	0.81	1.21	0.35	0.23	0.08	0.88	0.91	7.73	1.27	.....
Long Valley.....	1.68	2.71	1.22	0.40	0.87	0.31	0.11	0.00	1.05	1.08	4.78	3.03	17.24
Maury.....	0.61	3.14	1.38	0.42	1.59	0.98	0.08	0.00	1.22	1.46	5.85	1.91	18.59
McKenzie Bridge.....	7.73	11.31	5.06	2.58	4.14	2.73	0.00	0.08	1.11	5.79	18.17	7.07	65.77

PRECIPITATION, 1910.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Oregon—Continued</i>													
McMinnville.....	7.48	6.78	1.65	3.46	1.45	1.25	T.	T.	1.81	3.76	9.83	4.29	41.76
Meacham.....	4.50	7.62	0.66	0.27	2.18	1.48	T.	1.40			3.70	1.45	
Merrill.....		0.24	0.07	0.03	0.07	0.22	0.81	0.00	0.31	0.91	4.20	2.30	
Metolius.....	1.55	3.41	1.46	0.61	1.70	1.25	0.16	T.	0.83	2.61	0.26	2.27	25.11
Mikkalo.....	1.07	1.11	0.65	0.58	0.97	6.69	0.02	0.03	0.18	T.	2.09	1.15	8.54
Miller Prairie.....	7.45	12.33	1.63	1.20	1.80	0.65	0.68	0.00	1.34	0.64	2.93	1.65	31.70
Miramonte Farm.....	7.02	6.37	2.00	3.64	2.00	1.20	0.02	0.01	1.64	3.53	9.53	3.93	40.89
Monroe.....	6.70	7.32	1.50	2.33	0.64	0.77	0.00	0.01		3.03	11.88	4.98	
Mountain Home.....	9.54	11.38	5.14	4.31	2.52	1.12	0.00	0.39	2.96	6.95	15.26	7.93	67.50
Mountain Park.....	8.95	12.11	6.38	2.95	3.64	1.77	0.00	0.04	0.55	5.71	10.94	6.19	65.23
Mountain Ranch.....	7.28	5.12	1.47	1.41	1.53	3.95	0.90	0.00	0.68	2.03	13.64	5.98	39.23
Mount Angel.....	5.92	7.55	2.12	3.14	2.50	1.39	0.00	0.21	1.88	4.85	10.30	5.48	45.34
Mount Hood.....	6.44	6.77	3.03	1.74	2.86	1.59	0.00	T.	0.70	4.21	9.55	2.69	39.58
Musick.....	8.71	10.44	6.24	4.32	3.28	4.55	0.00	0.00	1.87	7.11	16.92	14.89	78.33
Newport.....	12.80	8.50	3.90	4.38	1.50	1.95	0.00	0.11	0.65	5.31	11.22	5.41	55.73
Ochooc.....	1.21	2.13	1.03	0.76	2.73	0.93	0.16	T.	0.69	1.53	5.36	2.12	18.65
Ochooc Creek.....	1.13	1.60	1.37	0.63	1.41	0.93	0.02	0.00	0.73	1.11	5.29	2.05	16.27
Owyhee.....	1.45	0.85	0.52	0.55	0.42	0.05	T.	0.00	1.12	0.47	2.07	0.69	8.19
Paisley (near).....	6.30	0.49	0.67	0.21	0.12	0.49	0.36	0.00	0.75	0.29	2.83		
Paulina.....					1.35	0.21	T.	0.00	0.55	0.88	3.75		
Pendleton.....	1.83	1.74	0.92	1.04	1.36	0.58	0.01	T.	0.79	0.91	4.07	0.81	14.06
Persist.....	4.49	5.97	1.48	2.12	1.91	1.14	0.13	0.00	1.31	2.91	12.99	5.62	46.07
Pilot Rock.....	1.32	1.18	0.83	1.02	1.43	0.72	0.00	0.02	0.71	0.53	3.10	1.37	12.23
Plush.....		0.59	0.35	0.45	1.07	0.57	0.81	0.00	0.09				
Pompeii.....	10.41	14.53	7.65	4.76	5.65	3.52	0.00		1.73	8.55	16.17	10.77	83.98
Portland.....	8.26	6.45	2.25	3.78	1.82	1.61	T.	0.13	1.15	3.43	8.24	3.53	38.55
Post.....	0.54	0.95	0.79	0.20	1.18	1.10	T.	0.06	0.78	0.97	3.51	1.05	11.07
Power House.....	2.08	3.39	2.65	1.85	1.95	0.80	0.10	0.28	0.73	1.13	2.39	0.78	18.58
"P" Ranch.....	0.14	1.03	1.82		0.78	0.32	0.12						
Prineville.....				0.57	1.93	0.64	0.14	T.	0.54	0.98	3.24	1.34	
Prospect.....	5.19	8.90	0.84	1.78	1.44	0.76	0.11	0.00	1.80	2.99	13.16		
Ramsey.....	1.21	2.33	0.80	1.10	1.88	1.39	0.06	0.00		0.80	3.77	1.12	
Range.....	1.55	4.50		0.70	0.82	0.92	T.	0.00	0.87	2.12	2.38	0.18	
Ray Creek.....	0.54	0.98	0.89	0.34	1.07	0.56	0.10	T.	0.54	0.27	1.79	0.90	7.98
Reston.....	6.48	6.60	1.55	3.17	1.28	0.80	T.	0.00	0.71	3.62	13.05	6.21	43.48
Richland.....	0.55	1.20	1.11	0.78	1.72	0.10	T.	0.05	1.29	1.04	2.60	0.60	11.04
Riverdale Ranch.....							0.08	0.00	0.63	0.74	3.12	0.62	
Riverside.....	1.15	1.28	0.85	0.60	0.68	0.00	0.31	0.00	1.30	0.48	3.78	0.75	11.18
Rock Creek.....	13.32	14.46	3.29	4.16	0.98	1.63	0.08	T.	1.03	4.95	18.92	9.00	70.86
Roseburg.....	3.78	2.44	2.00	1.73	2.01	1.09	0.03	0.00	0.89	2.71	9.19	3.10	28.97
Rosland.....	2.87	3.38	0.51	0.59	2.26	1.27	0.18	0.00	1.17	1.19	4.59	2.14	20.15
Salem.....	5.63	4.92	1.24	2.20	1.58	1.19	0.00	0.02	1.26	1.80	8.03	4.02	31.89
Seneca.....	0.85	1.52	1.62	0.39	0.99					3.44			
Silver Lake.....	2.65	1.96			0.58	0.88	0.70	T.					
Siskiyou.....	3.23	4.23	2.19	0.95	1.01	0.46	0.00	0.00	0.49	1.50	11.40	3.78	29.24
Sisters.....	1.34	2.02	0.88	0.66	1.49	1.00	0.16	0.00	0.89	2.39	6.83	1.25	18.91
Stafford.....	8.09	8.68	2.64	4.42	2.48	1.65	T.	T.	1.24	4.51	11.29	4.49	49.49
Starkey.....	0.55	2.60	0.90	0.98	1.40	0.35	0.39	0.00	0.90	0.85	3.36	1.17	13.45
Sugar Creek.....	1.02	3.91						T.	0.00	0.28	0.81	4.12	2.21
Summit.....	9.82	10.25	4.34	4.57	1.20	1.99	0.00	0.06	1.35	5.04	12.95	7.72	59.20
Summit Prairie.....	1.45	1.91	0.94		1.61	0.78	0.03	0.00	0.62	1.02	4.28	1.13	
Susanville.....	1.67	2.92	1.09	0.82	1.56	0.94	0.26	0.06	0.35	1.46	3.78	1.02	16.96
Tamarack.....	1.81	1.59	1.34	0.58	1.73	0.88	T.	0.00	1.61	0.40	4.00	1.04	14.98
Telecast.....			0.56	0.33	2.03	0.02	0.06	T.	1.30				
The Dalles.....	1.87	2.67	0.41	0.83	1.31	0.72	T.	0.00	6.05	1.01	4.18	1.51	14.56
Tin Roof Cabin.....	3.85	4.15	0.65	1.59	2.30	1.66	0.05	0.05	0.64	1.73	3.79	1.45	20.71
Toledo.....	9.69	11.95	3.75	6.66	1.65	1.95	0.00	0.08	0.67	5.85	14.70	7.75	64.70
Trask.....	20.21	19.61	7.31	7.63	2.63	2.23	0.13	0.20	3.01	10.08	26.37	14.08	113.69
Umatilla.....	0.98	0.92	1.07	0.20	1.07	0.90	0.06	T.	0.36	0.25	1.70	0.67	8.24
Unity.....	0.65	1.15	1.32	0.30	0.98	0.45	0.43	0.00	0.91	1.14	2.37	0.71	10.36
Vale.....	0.93	0.88	0.96	0.60	0.71	0.07	T.	T.	0.69	0.74	2.65	0.92	9.09
Valley Falls.....					0.20	0.55	0.32	0.00	0.86	0.20	6.46	0.61	
Van.....	0.99	1.72	1.20	0.47	0.93	0.05	0.60	0.00	1.25			3.30	
Wallace Orchard.....	6.64	5.77	1.34	2.65	2.06	1.43	T.	0.16	1.16	2.75	9.21	4.57	37.79
Walloupa.....	2.12	3.72	3.74	2.57	2.39	0.57	0.15	0.29	1.15	2.49	5.90	1.85	26.92
Wallows.....	1.57	2.20	1.61	2.85	2.23	0.31	0.24	0.06	1.12	1.87	3.57	1.12	18.75
Warm Springs.....	0.51	0.69	0.80	0.54	1.92	0.82	0.00	0.00	0.81	0.62	4.04	0.63	11.32
Wasco.....	1.54	1.72	0.63	0.90	1.06	0.71	T.	0.00	0.17	0.86	3.27	0.98	11.84
Welches.....		14.49	9.20	5.53	4.90	3.12	0.03	0.37	1.12	0.81	17.65	9.68	
Weston.....	2.72	3.05	1.36	1.18	1.53	0.85	T.	0.18	1.42	1.42	3.77	1.42	18.90
Yonna.....	0.99	1.74	0.58	0.30	0.68	0.52	0.30	0.00	0.60	1.38	6.52	1.86	15.47
<i>Pennsylvania.</i>													
Aleppo.....	6.85	3.87	0.25	3.10	4.18	2.54	5.15	1.12	2.52	1.80	1.80	2.40	35.58
Altoona.....	6.48	2.13	0.46	3.79	2.89	3.56	1.59	2.10	5.12	1.05	0.33	1.53	31.08
Ansonia.....	3.61	2.47	0.42	6.82	2.99	2.06	1.43	2.04	4.60	1.05	2.41	1.90	31.80
Austin.....							3.78	3.30	4.02	2.43	3.06	2.20	
Baldwin.....	7.56	4.03	0.35	3.63	3.48	1.68	3.09	2.93	8.45	2.30	2.03	4.27	43.86
Beaver Dam.....	5.15	3.72	0.27	2.27	2.56	2.55	2.89	3.24	5.36	1.11	1.32	2.59	33.03
Belleville.....	5.68	3.36	0.27	7.82	2.54	3.00	5.20	2.44	4.54	2.01	1.40	1.94	40.20
Bethlehem.....		5.36	0.83	5.74	2.78	3.37	0.45	2.78	5.54	2.04	2.73	2.29	
Bradford.....	5.21	4.51	0.62	4.61	3.50	1.60	4.00	1.89	5.89	3.83	3.30	2.47	41.43
Browsers Lock.....	4.69	3.67	1.02	4.03	2.30	4.16	1.24	3.61	3.04	2.14	1.37	34.23	
California.....	4.55				1.13	4.20			1.05	1.91			
Catawissa.....	4.59			6.40	4.05	4.05	1.50	2.02	4.50	1.30	2.99	2.52	38.36
Center Hall.....	4.44	2.05	0.03	7.31	2.89	4.84	4.09	2.36	5.70	1.26	1.28	2.13	39.38
Carlson.....	7.90	4.40	0.82	3.62	3.01	1.09	0.42	2.79	5.44	2.96	3.42	3.64	39.51
Clayville.....	6.94	4.51	0.13	2.65	4.71	3.11	2.88	2.17	3.74	1.92	1.57	2.77	37.10

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Pennsylvania—Continued.</i>													
Ephrata.....	3.31	4.15	0.26	4.40	3.06	7.46	2.13	4.61	2.38	2.30	2.23	2.23	38.52
Erie.....	4.00	4.02	0.53	2.23	3.48	2.01	3.82	1.76	2.57	5.00	3.45	2.89	35.76
Everett.....	4.40	2.20	0.59	4.35	3.31	5.53	1.66	1.58	4.08	1.09	1.21	0.64	31.24
Forks of Neshaminy.....	5.85	3.58	0.30	6.91	2.92	4.19	0.53	6.46	2.27	4.00	3.19	2.15	42.35
Franklin.....	7.41	4.25	0.59	3.30	2.83	2.18	3.46	1.50	4.84	3.36	3.11	3.57	40.40
Freeport.....	7.12	4.03	0.58	3.51	4.05	3.80	2.72	1.81	6.47	2.03	2.55	2.85	41.52
George School.....	2.68	1.33	1.33	5.27	2.06	4.64	0.71	5.37	2.44	3.06	3.26	2.97	.....
Gettysburg.....	4.40	3.78	0.48	6.09	2.44	6.75	1.87	1.51	2.26	1.53	0.84	2.11	34.06
Giardville.....	6.88	4.44	0.79	7.75	5.70	5.86	1.96	3.32	5.35	1.94	3.80	3.63	51.42
Gordon.....	5.02	4.02	0.59	8.06	6.08	6.28	1.88	4.12	4.69	1.78	3.01	4.04	50.47
Greensboro.....	6.42	2.58	0.33	2.28	2.88	5.86	4.18	1.60	4.72	1.76	2.14	2.17	36.32
Greensburg.....	6.58	3.13	0.33	3.18	2.84	3.87	2.71	2.56	3.94	1.44	1.80	3.70	36.08
Greenville.....	5.47	3.77	0.24	3.92	4.49	1.33	3.04	1.45	5.35	4.35	3.61	3.21	40.23
Grove City.....	7.71	4.53	0.39	3.80	4.69	2.53	2.83	2.09	6.28	2.83	2.08	2.96	42.72
Hamburg.....	3.77	4.02	0.36	8.50	3.79	6.38	2.43	2.41	8.42	1.58	2.88	3.32	47.86
Hanover.....	4.10	4.13	0.36	5.09	2.72	4.49	0.90	3.25	1.19	1.57	1.43	2.18	32.01
Harrisburg.....	3.91	3.54	0.25	4.20	4.31	4.91	1.41	2.21	2.78	1.30	0.83	2.57	32.02
Hershey Island Dam.....	5.56	3.55	0.47	2.61	2.87	2.51	2.15	2.40	5.28	1.62	1.55	2.80	33.68
Huntingdon.....	6.17	2.34	0.58	5.67	1.73	5.46	2.24	3.24	6.43	1.51	1.56	2.25	38.18
Hyndman.....	4.31	2.02	0.28	4.07	3.09	7.62	1.46	2.59	3.03	1.23	0.93	1.80	32.63
Indiana.....	5.55	4.05	0.51	3.47	3.85	3.19	3.28	2.99	3.98	1.89	2.80	4.21	40.07
Irwin.....	5.99	2.95	0.21	3.07	3.04	2.34	1.83	1.62	4.79	1.68	1.79	2.10	31.41
Johnstown.....	7.81	3.13	1.27	4.28	3.52	3.76	1.23	.....	4.79	1.53	1.90	3.31	.....
Kennett Square.....	3.55	1.57	0.46	4.88	3.18	6.40	4.44	7.97	1.54	3.52	3.18	1.36	42.05
Lansdale.....	5.61	3.23	0.52	6.61	2.19	4.24	0.59	5.99	1.82	2.71	3.50	2.28	39.26
Lawrenceville.....	3.75	3.58	0.15	6.39	3.83	3.65	2.30	2.30	4.45	1.17	0.99	0.95	33.51
Lebanon.....	4.72	4.39	0.75	6.35	2.44	5.77	2.20	2.94	6.14	1.94	2.81	2.44	42.89
Le Roy.....	4.50	3.15	0.89	7.49	3.27	3.94	1.33	2.81	4.47	0.87	2.45	2.63	37.80
Lewisburg.....	5.94	3.71	0.72	6.47	3.92	5.74	1.21	1.80	5.92	1.01	1.79	3.73	41.96
Lock Haven.....	6.14	3.55	0.47	5.03	3.37	3.67	1.88	1.93	5.38	1.11	1.74	1.79	36.12
Lock No. 4.....	5.99	3.25	0.37	2.83	2.92	3.57	1.86	3.31	3.03	3.02	2.76	2.73	33.57
Lycippus.....	8.62	3.61	0.53	3.89	3.18	5.01	4.22	2.49	4.83	2.04	2.61	3.97	45.00
Marion.....	4.05	3.62	0.20	5.47	3.23	6.75	1.14	1.41	3.08	1.26	1.11	2.65	33.97
Mauch Chunk.....	6.10	3.97	0.82	7.35	4.55	3.63	2.16	4.00	4.37	1.52	3.24	3.08	44.79
Mifflintown.....	4.14	3.11	0.22	7.43	2.91	7.18	3.04	2.40	4.68	1.18	1.09	1.37	38.75
Millford.....	3.27	3.96	0.67	5.56	1.78	3.69	1.09	4.76	3.49	1.43	5.49	2.03	37.22
Montrose.....	5.49	4.43	0.91	2.78	4.05	2.29	1.53	1.71	3.77	0.80	2.64	2.96	33.36
Mountain House.....	5.65	3.05	0.40	5.39	1.64	6.39	1.71	1.54	3.87	1.21	0.75	1.93	33.53
Muncy Valley.....	6.48	3.09	0.14	7.88	5.03	5.85	2.71	2.73	5.27	1.29	2.16	2.42	45.05
New Germantown.....	4.69	2.77	0.24	7.31	2.88	7.44	1.35	1.53	4.37	2.07	1.52	1.95	38.12
Ottsville.....	3.52	3.35	0.93	6.57	2.57	3.97	0.62	5.60	4.06	1.96	3.61	1.82	38.58
Parkers Landing.....	6.08	4.64	0.24	3.10	3.14	1.80	2.94	2.16	6.08	2.04	3.18	3.56	38.96
Philadelphia (Weather Bu.).....	4.23	2.99	0.38	4.76	2.13	5.40	1.84	5.79	3.05	2.90	3.65	2.55	39.60
Philadelphia (Centon. Av.).....	4.90	3.19	0.35	2.14	2.81	6.07	1.53	6.32	3.10	3.02	3.28	2.89	42.99
Pittsburgh.....	5.33	3.60	0.37	2.21	3.24	1.94	1.26	2.47	5.50	1.69	1.32	2.87	31.80
Pocono Lake.....	7.10	1.41	1.21	5.69	5.68	3.73	1.30	3.08	4.76	2.01	3.56	3.97	43.50
Point Pleasant.....	5.15	3.64	1.09	6.61	3.04	3.77	0.40	4.72	4.30	2.47	3.86	2.33	41.38
Pottsville.....	5.91	4.19	0.49	8.13	6.83	5.74	2.26	3.10	4.43	2.43	2.90	3.32	49.73
Reading.....	4.03	4.83	0.89	5.38	2.65	4.26	3.94	2.90	2.37	1.90	2.61	2.22	37.98
Renovo.....	5.30	3.68	0.60	7.07	2.62	2.96	4.18	2.52	5.62	1.28	1.80	2.34	39.97
Saegerstown.....	5.54	.....	0.68	.....	3.37	1.73	4.33	1.83	4.05	5.23	5.50	3.46	.....
St. Marys.....	3.99	2.37	1.05	3.86	3.25	.....	.....	.....	.....	.....	.....	.....	.....
Salisbury.....	7.87	3.98	0.56	3.69	2.59	2.25	2.29	2.04	6.41	1.82	1.90	3.06	38.46
Seranton.....	4.32	3.94	0.77	3.41	2.96	3.05	1.09	2.51	4.45	0.85	5.64	3.35	36.34
Seisholtzville.....	4.44	4.07	0.68	5.00	2.97	4.09	0.55	6.71	2.80	2.15	3.30	2.32	39.74
Selinsgrove.....	5.57	2.95	0.35	6.72	5.27	8.21	0.66	2.59	5.05	1.53	2.39	1.71	43.61
Shawmont.....	4.19	2.78	0.65	5.02	2.26	5.13	0.80	10.37	2.67	3.68	2.67	2.48	42.97
Skidmore.....	7.50	4.20	0.00	3.50	3.10	2.95	2.35	0.55	6.75	1.85	1.10	2.45	36.30
Smiths Corners.....	4.40	3.99	0.98	7.23	3.89	4.63	0.41	4.99	3.89	2.48	3.56	1.87	42.32
Somerset.....	8.91	4.09	0.99	4.89	3.34	8.68	2.65	2.40	2.75	1.58	2.35	4.41	47.04
Springdale.....	6.96	4.34	0.79	2.97	2.84	2.95	2.14	2.30	4.54	2.20	1.70	2.64	35.77
Spring Mount.....	4.33	3.77	0.67	4.64	2.78	5.67	0.74	5.50	2.52	2.23	3.15	2.07	38.07
State College.....	6.90	3.82	0.60	7.08	3.17	3.79	4.06	2.07	6.38	1.73	1.68	3.31	44.59
Stroudsburg.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.77
Towanda.....	3.79	2.68	0.71	5.36	2.56	4.24	2.00	2.08	5.14	0.62	2.45	1.52	33.15
Uniontown.....	7.97	3.44	0.41	2.73	3.86	4.33	2.84	2.24	4.07	1.48	2.51	3.62	39.50
Warren.....	4.52	3.76	0.82	3.84	3.02	1.98	4.90	2.90	2.92	3.92	5.06	2.74	40.38
Wellsboro.....	4.23	3.18	0.61	6.41	4.27	1.05	2.41	2.47	3.98	0.99	2.13	1.55	34.18
West Chester.....	5.36	3.77	0.52	5.50	3.42	7.28	2.92	6.46	2.58	3.14	4.33	2.94	47.62
West Newton.....	6.93	3.38	0.34	2.82	3.00	4.46	1.74	3.49	4.06	1.35	1.70	3.32	37.06
Wilkes-Barre.....	3.83	5.31	.....	3.88	3.36	3.14	1.50	2.85	5.44	0.94	2.78	1.90	.....
Williamsport.....	5.56	3.32	0.42	6.51	2.80	3.84	2.80	1.49	3.79	0.92	1.35	2.12	34.92
<i>Rhode Island.</i>													
Block Island.....	4.86	4.22	1.58	1.24	3.36	2.82	1.73	2.34	1.21	2.37	5.58	2.50	33.81
Bristol.....	5.18	5.07	1.21	1.90	2.76	4.80	3.63	2.58	2.49	1.71	4.23	2.36	37.92
Greene.....	5.38	4.17	0.99	2.48	3.07	3.00	2.04	3.02	3.91	1.43	4.81	2.44	36.74
Hope Valley.....	6.00	4.95	1.44	2.06	3.09	4.20	3.32	3.27	2.21	1.99	4.28	3.45	40.26
Kingston.....	7.03	5.13	1.62	2.02	3.81	5.29	2.95	3.96	5.07	2.09	5.47	3.10	45.14
Narragansett Pier.....	5.62	3.91	1.96	1.81	3.32	3.64	2.72	2.58	2.28	2.08	4.45	3.57	37.74
Pawtucket.....	.....	4.22	1.25	1.85	2.10	3.35	1.95	2.58	2.58	1.50	4.05	2.31	.....
Providence.....	4.85	3.86	1.32	1.64	2.92	3.98	2.86	2.62	2.68	1.60	3.37	2.33	34.21
Waltham Lake.....	5.50	2.86	1.00	1.35	2.04	4.73	1.75	1.77	1.70	2.08	2.88	2.60	30.26
<i>South Carolina.</i>													
Aiken.....	3.90	5.79	0.38	1.85	3.45	6.60	5.63	4.43	1.97	2.18	0.70	1.44	38

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MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>South Carolina—Continued.</i>													
Camden (River Sta.).....	3.32	3.98	1.60	0.94	2.78	6.68	9.98	4.48	3.72	2.76	0.62	1.58	42.44
Catawba.....	4.24	4.08	3.60	2.04	4.96	5.57	5.13	3.38	6.93	0.44	3.74	48.45	48.45
Chappells.....	2.70	4.62	0.36	1.02	5.14	5.86	6.36	5.22	2.60	3.04	0.00	1.70	38.62
Charleston.....	1.39	3.64	0.63	1.00	1.01	3.95	4.68	10.00	4.39	6.18	1.61	1.21	39.69
Cheraw.....	2.99	5.18	1.23	1.82	3.02	7.32	3.83	7.73	3.57	5.01	0.61	2.31	44.62
Clemson College.....	3.12	3.22	1.33	2.16	9.44	7.38	4.14	3.98	6.19	1.40	0.33	4.68	47.37
Columbia.....	2.81	6.98	0.76	0.78	2.20	6.64	5.25	8.20	5.17	3.01	0.59	1.30	43.09
Conway.....	2.83	6.19	0.94	1.19	4.59	8.24	8.56	5.60	5.21	6.06	2.31	1.41	56.11
Darlington.....	2.08	4.72	1.48	1.93	2.24	9.74	3.17	1.37	7.05	3.07	0.76	1.79	39.40
Dillon.....	3.69	5.56	1.01	2.11	2.75	9.42	6.26	4.69	3.70	2.46	1.25	2.18	45.08
Edinburgh.....	4.37	9.39	2.93	1.50	3.22	8.99	3.50	5.44	3.72	4.72	0.45	2.07	50.30
Ferguson.....	2.33	3.10	1.00	2.07	2.20	8.49	5.58	4.99	3.82	5.53	0.74	2.10	42.45
Florence.....	2.62	5.57	0.93	1.81	2.17	8.54	6.02	4.35	2.32	4.64	0.80	2.39	42.16
Georgetown.....	.....	4.74	0.27	0.08	1.48	12.31	3.69	11.85	5.49	6.35	2.10	1.15	.....
Greenville.....	3.10	4.07	2.20	1.56	12.81	6.69	3.73	3.76	3.79	2.95	0.30	4.56	49.52
Greenwood.....	3.90	4.25	1.12	2.50	5.16	4.74	5.46	3.87	1.59	3.81	0.40	3.47	40.27
Heath Springs.....	3.81	4.00	0.65	1.37	4.29	6.62	5.42	3.00	2.54	2.82	0.56	2.80	38.48
Jacksonboro.....	1.43	3.38	1.97	1.74	1.22	8.25	8.22	8.24	3.96	8.86	2.62	1.26	50.55
Kingstree.....	2.70	4.94	0.80	2.09	4.65	8.93	7.00	7.94	5.34	4.70	1.72	1.32	51.53
Liberty.....	4.45	5.38	1.85	2.17	16.26	8.15	5.77	7.23	2.57	1.45	0.00	4.96	60.94
Little Mountain.....	3.49	4.10	0.47	1.08	.....	4.22	8.38	2.85	4.78	0.98	3.42	0.79	1.67
Meriwether.....	.....	.....	.....	.....	.....	3.05	7.94	3.69	3.40	2.66	3.49	1.21	1.36
Newberry.....	4.02	4.43	0.40	1.92	3.78	9.54	3.66	7.07	1.15	3.97	0.59	2.96	43.49
Pelzer.....	3.50	3.12	3.18	2.08	4.07	4.74	2.98	4.70	2.12	3.28	0.28	4.36	38.41
Pinopolis.....	2.97	4.97	1.83	.....	.....	4.54	11.61	9.38	1.68	7.93	1.83	0.66	.....
St. George.....	2.35	2.80	1.30	2.20	3.25	7.48	7.24	9.49	2.12	3.83	2.01	1.55	45.62
St. Matthews.....	1.67	4.45	1.11	1.82	3.10	9.46	5.54	3.57	4.63	3.75	1.61	2.27	42.98
Saluda.....	3.79	4.32	0.68	1.37	5.42	10.60	5.68	7.98	2.13	.....	.....	.....	.....
Santuc.....	4.00	4.03	0.48	1.76	4.17	7.42	6.44	7.67	0.97	4.04	0.14	3.92	45.04
Smith Mills.....	2.86	5.67	1.14	1.12	2.98	5.79	6.02	4.40	2.71	6.67	1.25	1.58	42.19
Society Hill.....	2.03	5.97	1.17	1.92	2.60	9.30	5.93	3.79	2.00	2.94	0.65	2.56	40.86
Spartanburg.....	3.67	2.83	3.54	1.43	6.89	9.45	3.69	6.46	2.56	4.24	0.20	3.67	48.63
Summerville.....	2.52	4.48	1.74	1.88	1.97	7.32	8.07	10.16	1.11	7.29	2.17	1.65	50.66
Trenton.....	3.32	5.60	0.28	2.04	3.05	9.11	7.11	4.50	1.05	3.62	1.28	2.78	44.33
Trial.....	2.47	4.05	0.98	1.39	3.93	7.94	8.17	6.94	.....	.....	.....	.....	.....
Walterboro.....	2.37	3.70	1.27	2.28	3.55	8.31	10.46	7.53	1.72	8.10	2.63	1.73	53.65
Windsboro.....	.....	3.87	3.30	1.70	2.82	8.76	5.29	9.51	2.23	4.49	0.48	1.55	.....
Winthrop College.....	3.88	4.02	0.93	2.27	3.97	4.90	5.88	4.88	2.44	5.90	0.27	3.15	42.49
Yemassee.....	1.91	4.41	1.27	2.30	2.56	8.48	9.07	8.00	2.82	9.32	1.98	1.74	53.86
<i>South Dakota.</i>													
Aberdeen.....	0.52	1.20	0.80	2.28	1.46	3.00	1.07	2.47	1.20	1.07	0.20	0.25	15.46
Academy.....	1.10	0.18	0.46	1.39	1.76	4.19	2.88	1.34	2.00	0.36	0.15	0.86	16.67
Alexandria.....	1.58	T.	0.38	2.00	1.36	1.68	3.12	0.99	1.45	1.00	0.15	0.35	14.06
Ardmore.....	0.30	1.05	0.80	1.00	.....	.....	.....	0.43	1.50	0.90	0.30	.....	.....
Armour.....	1.71	.....	.....	.....	2.25	1.65	3.75	0.40	1.50	0.90	.....	0.85	.....
Bellevue.....	0.64	0.23	.....	1.10	1.64	1.84	1.01	1.25	2.69	0.63	0.16	0.04	.....
Brookings.....	1.08	0.40	0.35	2.34	0.87	1.85	1.68	2.46	0.96	0.38	0.17	0.10	12.64
Burke.....	1.05	.....	0.50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Camp Crook.....	.....	.....	.....	1.11	0.66	1.37	0.52	1.06	2.30	0.35	T.	0.10	.....
Canton.....	0.55	0.30	0.05	1.99	1.04	1.52	3.09	4.26	4.12	1.13	T.	0.09	18.10
Cascade Springs.....	1.20	0.53	1.00	0.83	2.20	1.38	3.14	0.20	1.59	2.66	0.41	0.95	16.19
Castlewood.....	0.25	0.10	0.52	1.62	0.55	2.85	1.62	2.42	1.31	0.45	0.38	0.22	12.26
Centerville.....	1.03	0.22	0.28	1.34	1.69	2.21	3.50	2.35	2.50	1.30	0.09	0.13	16.64
Chamberlain.....	1.00	T.	0.50	0.81	0.90	5.62	3.20	1.67	2.36	0.54	.....	0.61	.....
Clark.....	1.05	0.47	0.62	1.77	1.19	3.05	1.73	2.52	1.38	1.16	0.56	0.52	16.02
Cottonwood.....	0.66	0.07	0.76	1.06	2.54	1.30	1.11	0.48	0.82	0.32	0.53	0.30	9.95
Crow Creek.....	.....	.....	.....	.....	.....	3.96	2.42	1.40	1.12	0.56	0.85	0.56	.....
Davidson.....	0.95	0.65	1.69	0.45	0.67	1.44	0.15	1.74	2.05	.....	0.34	T.	.....
Deadwood.....	2.97	1.10	3.90	3.50	3.55	1.90	1.40	1.50	3.50	2.45	1.60	.....	.....
Deerfield.....	0.98	0.06	1.16	1.06	1.94	0.86	2.51	0.79	0.63	0.54	0.34	0.30	11.17
De Smet.....	2.00	0.60	0.70	1.92	0.70	1.80	1.07	3.13	0.93	0.80	0.35	0.34	14.34
Dowling.....	1.00	0.17	1.10	1.20	2.35	3.43	1.05	0.91	1.00	0.36	0.34	0.10	13.61
Dumont.....	4.59	1.17	3.04	4.07	2.94	1.28	2.70	1.18	1.36	1.52	0.90	1.94	26.97
Elk Mountain.....	1.16	1.02	0.78	0.80	3.05	0.46	3.61	0.28	1.17	0.40	0.25	0.56	13.44
Elk Point.....	1.20	.....	.....	.....	2.35	.....	2.15	2.24	.....	1.10	.....	0.05	.....
Ellingson.....	0.43	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Englewood.....	2.48	0.53	2.82	2.77	2.65	1.07	0.87	1.70	3.40	1.20	2.00	1.70	23.19
Eureka.....	0.60	1.70	1.23	0.82	0.42	3.80	0.53	2.60	3.65	0.18	T.	0.25	15.78
Fairfax.....	.....	.....	0.10	.....	.....	.....	.....	.....	.....	.....	0.15	0.80	.....
Faulkton.....	0.21	0.48	1.50	0.83	0.83	2.42	0.64	2.84	1.00	0.26	0.16	0.38	12.53
Flandreau.....	0.70	0.50	0.55	2.15	1.85	2.49	1.80	2.43	1.96	1.08	0.22	0.10	15.83
Forestburg.....	2.64	0.40	0.25	1.36	1.07	2.09	3.87	2.14	1.56	0.65	0.10	0.50	16.63
Fort Meade.....	0.57	0.10	1.55	2.00	2.70	1.70	1.62	1.44	3.49	0.52	1.06	0.13	16.88
Frederick.....	0.44	.....	1.34	1.79	0.62	1.75	0.79	.....	1.87	.....	.....	.....	.....
Gannvalley.....	1.27	0.30	T.	1.35	1.96	5.82	2.83	5.51	1.82	0.55	0.20	1.00	22.61
Greenmont.....	1.55	2.08	3.96	7.08	2.17	1.64	1.97	3.15	1.81	1.04	1.32	1.11	30.58
Greenwood.....	1.00	0.08	0.32	0.64	2.53	1.52	3.72	0.78	2.58	1.07	0.14	1.15	15.53
Hardy Ranger Station.....	3.41	0.60	2.32	2.78	3.31	1.35	2.03	1.15	2.16	1.50	1.55	1.23	23.40
Harveys Ranch.....	3.99	0.57	2.73	2.00	3.14	1.72	2.85	1.31	2.11	1.34	1.40	1.62	25.68
Hermosa.....	0.71	0.07	1.05	0.45	3.23	0.51	3.42	0.63	0.37	0.39	0.21	0.30	11.34
Higmore.....	0.82	0.19	0.58	1.40	1.00	3.74	0.85	0.66	0.89	0.24	0.40	0.44	11.21
Hill City.....	0.59	0.06	0.95	0.69	2.95	0.70	3.82	0.62	0.29	0.62	0.62	0.13	12.04
Hitchcock.....	.....	.....	.....	.....	1.20	3.24	1.60	.....	0.75	1.62	0.35	0.35	.....
Hopewell.....	2.46	1.33	1.00	0.25	1.42	1.78	1.30	1.30	1.01	0.73	0.20	0.40	13.38
Howard.....	1.42	0.26	0.60	1.30	1.40	1.93	.....	1.87	1.10	0.90	0.19	0.29	.....

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>South Dakota—Continued.</i>													
Leslie.....		T.			0.98								
Marion.....	3.79	0.27	0.11	0.48	1.85	3.51	2.89	1.17	2.99	1.24	0.10	0.56	18.96
Marston.....	0.95	0.28	1.20	0.32	0.84	5.44	2.02	0.27	0.55	0.19	0.24	0.30	12.10
Mellette.....	0.34	0.19	0.48	0.89	1.18	1.65	0.73	2.95	0.71	1.02	0.29	0.35	10.78
Menno.....	1.57	0.26	0.40	1.06	1.39	1.29	1.68	1.17	3.33	0.91	0.05	0.33	13.44
Milbank.....	0.80	0.65	0.35	2.12	0.43	3.33	1.91	3.38	0.81	2.62	0.28	0.40	17.68
Mitchell.....	2.04	0.07	0.32	1.27	1.38	1.98	2.04	2.98	1.57	0.57	0.11	0.40	14.73
Murdo.....	1.70	0.20	2.04	0.50	1.55	1.40	0.65	1.35	1.58	1.10	0.30	0.12	12.49
Oelrichs.....	0.30	0.46	1.00	0.75	0.66	2.50	3.10	.....	1.20	1.05	.....	.....	0.70
Orman.....	1.00	0.05	0.78	1.55	1.61	1.98	0.88	0.95	2.98	0.72	0.34	0.07	12.91
Ottumwa.....	1.40	0.90	1.00	0.46	1.72	1.51	0.57	0.91	1.23	0.40	T.	0.40	10.50
Pierre.....	0.94	0.14	1.53	0.59	0.81	2.52	1.88	0.60	1.13	.....	.....	.....	.....
Plankinton.....	1.00	0.25	0.20	0.84	2.29	3.58	1.89	3.75	2.24	0.60	0.03	0.63	17.30
Pollock.....		0.85	1.10	0.20	0.30	1.90	0.26	1.09	4.02	0.35	0.02	0.30	.....
Rapid City.....	0.89	0.14	1.73	0.74	2.76	0.92	5.76	0.69	1.79	0.41	0.45	0.21	16.39
Redfield.....	1.10	0.20	0.25	0.85	1.04	2.10	1.81	1.99	0.92	1.52	0.10	0.10	11.98
Rochford.....	1.08	0.03	1.60	1.41	2.46	0.75	3.50	0.77	0.64	0.70	0.28	0.28	13.56
Rosebud.....	1.75	0.35	2.40	0.92	0.91	2.33	2.32	1.06	1.28	0.76	0.47	0.82	15.40
Rosebud Agency.....													
Roslyn.....	0.62	0.86	0.29	2.22	0.50	4.54	1.37	5.40	1.46	0.89	0.44	0.48	19.07
Savoy.....		0.57	2.68	3.15	3.19	1.43	1.28	.....	.....	.....	.....	.....	.....
Selly.....	0.61	0.83	1.48	0.84	1.01	2.91	0.80	2.53	3.77	0.23	T.	0.23	15.24
Sioux Falls.....	1.54	0.12	0.35	1.48	2.23	1.45	3.15	3.40	2.38	0.64	T.	0.15	16.89
Spearfish.....	0.53	0.24	1.40	1.72	1.70	2.15	.....	1.44	3.48	1.34	0.58	0.26	.....
Stephan.....	0.68	0.21	0.05	1.17	1.12	3.73	2.14	0.76	0.67	0.12	0.17	0.63	11.45
Tama.....	1.18	0.22	1.13	0.66	1.65	1.67	0.70	0.48	1.40	0.11	0.38	0.10	9.68
Tyndall.....													0.67
Vale.....	0.88	0.17	0.95	1.94	1.75	2.84	1.57	1.32	3.22	0.58	0.19	0.12	15.53
Vermilion.....	0.96	0.25	0.08	0.90	2.41	1.94	3.26	4.81	3.07	1.57	0.05	0.08	19.38
Waters Ranch.....	0.50	0.50	0.73	2.21	1.92	1.98	1.98	2.35	4.11	1.59	0.88	0.58	17.44
Watertown.....	T.	0.40	T.	2.75	.....	.....	.....	3.16	3.17	2.20	1.05	0.30	0.20
Wentworth.....	1.58	0.24	0.15	1.64	1.54	1.80	2.47	2.83	2.24	0.72	0.13	0.18	15.52
White Lake.....	1.13	0.30	0.05	0.50	1.16	3.55	2.18	1.75	2.28	1.09	T.	0.20	14.19
Winner.....			0.59	1.21	1.28	1.79	1.31	1.43	1.12	0.70	.....	1.05	.....
Yankton.....	1.16	0.21	0.39	0.62	2.12	1.85	3.87	3.37	4.72	1.64	0.02	0.36	20.33
<i>Tennessee.</i>													
Arlington.....				6.17	4.08	2.36	6.15	2.08	1.33	6.40			
Ashwood.....	3.62	4.41	0.25	5.20	4.48	6.54	5.50	1.40	2.30	2.73	0.80	3.45	40.68
Benton.....	3.80	4.01	0.83	4.32	9.14	7.57	7.29	4.97	0.98	2.04	2.07	4.42	51.44
Birds Bridge.....	3.18	2.29	1.55	3.96	3.64	2.80	9.68	4.47	4.92	1.90	1.43	3.67	43.49
Bluff City.....	3.77	1.90	1.46	2.82	3.42	3.94	6.62	4.60	4.69	2.16	1.66	2.68	39.72
Bolivar.....	4.42	5.42	0.22	7.81	3.16	6.23	6.54	0.81	1.92	4.41	1.62	3.65	46.21
Brownsville.....	4.66	4.75	1.14	6.55	3.90	4.16	4.93	2.88	1.67	8.78	1.49	3.83	48.74
Byrdstown.....	3.77	3.40	0.90	5.70	3.30	8.10	7.95	2.17	.....	2.70	1.50	3.45	.....
Carthage.....	4.36	4.25	0.70	4.89	4.63	7.05	8.94	1.89	2.05	3.40	1.46	2.91	46.03
Cedar Hill.....	4.45	4.17	1.30	7.02	5.75	4.75	6.45	2.80	2.85	.....	.....	.....	.....
Celina.....	4.08	4.44	1.45	5.05	5.53	7.37	9.84	2.52	3.01	3.34	2.31	3.85	52.70
Center Point.....	3.68	3.36	0.64	5.92	3.06	5.02	5.92	2.27	3.69	3.09	2.15	2.78	41.40
Charleston.....	3.53	2.83	1.10	3.35	7.83	7.87	8.17	3.40	2.70	1.21	0.31	4.79	48.11
Chattanooga.....	3.28	4.23	0.93	3.30	8.06	6.65	4.06	1.09	1.89	2.29	1.54	5.00	42.34
Clarksville.....	5.25	4.50	1.27	4.82	3.98	3.67	4.52	0.98	1.81	4.58	0.89	3.12	39.30
Clinton.....	5.35	4.40	0.83	4.88	6.63	5.39	5.48	3.13	3.00	1.05	1.27	5.23	46.64
Covington.....	3.92	3.31	0.94	5.41	3.41	3.54	4.08	1.69	0.87	10.47	0.91	3.73	42.28
Dandridge.....	3.36	2.76	1.58	3.74	6.24	3.46	4.96	5.78	2.52	2.32	1.50	4.30	42.42
Decatur.....	4.21	4.33	1.04	3.80	7.37	6.55	5.30	3.48	2.02	1.80	1.16	6.55	47.61
Dickson.....	4.92	3.26	0.66	5.63	5.96	8.06	5.66	7.32	1.81	3.40	.....	3.09	.....
Dover.....	4.95	4.56	1.55	5.22	3.67	3.06	3.67	1.16	1.14	6.27	T.	3.66	38.91
Dunlap.....	3.84	4.26	0.49	2.95	6.31	5.63	5.48	5.63	2.67	2.21	1.50	5.15	40.12
Dyersburg.....	4.35	4.55	0.85	4.92	3.01	3.02	5.02	3.95	2.83	9.17	0.40	4.15	46.22
Elizabethton.....		2.07	1.41	2.98	3.10	5.13	7.87	3.34	5.85	1.52	1.49	3.46	.....
Erasmus.....	5.01	4.73	1.16	5.28	5.87	7.25	7.34	2.72	3.08	3.19	1.63	3.62	60.85
Florence.....	4.57	4.04	0.15	4.10	5.46	7.69	5.76	1.14	.....	2.79	1.66	4.08	43.16
Franklin.....	4.21	4.60	0.95	6.05	6.10	6.49	7.04	.....	.....	2.62	1.23	3.95	.....
Hall's Hill.....	5.04	4.38	0.85	5.67	4.98	10.23	5.82	1.61	1.45	4.33	1.89	3.19	49.14
Harriman.....	4.77	4.06	0.59	4.24	5.58	4.57	9.05	1.20	2.55	1.99	1.24	3.71	43.55
Hohenwald.....	3.73	4.51	1.46	7.29	7.14	4.03	7.56	2.60	1.80	2.71	2.60	4.68	50.11
Iron City.....	5.14	4.36	0.32	3.07	5.01	5.20	5.93	1.29	3.31	4.61	1.45	3.48	43.17
Jackson.....	3.71	4.45	1.15	5.28	3.76	3.45	.....	.....	3.20	4.25	1.49	4.23	.....
Jefferson City.....	2.90	3.55	0.50	3.40	4.45	2.21	5.00	5.02	2.71	1.17	1.12	4.39	36.42
Johnson City.....							7.54	4.67	3.93	2.15	1.28	2.85	.....
Johnsonville.....	4.89	4.38	0.59	4.93	4.04	3.69	9.99	2.63	3.38	4.34	0.80	4.23	47.99
Jonesboro.....							7.54	4.67	3.93	2.15	1.28	2.85	.....
Kenton.....	4.00	6.21	0.82	6.36	2.72	2.63	9.56	1.08	2.38	8.83	0.36	4.06	49.03
Kingston.....	4.34	3.99	0.83	3.85	4.97	4.63	8.92	1.59	2.28	1.17	1.05	4.13	36.97
Knoxville.....	3.66	4.19	0.72	4.12	7.25	3.13	5.09	3.86	3.68	1.68	0.97	4.94	43.32
Lebanon.....	4.95	4.78	0.70	5.73	6.55	9.01	9.88	2.45	2.07	3.26	1.35	3.31	.....
Lewisburg.....	4.65	4.42	0.94	5.19	6.32	5.17	7.50	1.29	2.07	3.80	1.08	3.94	46.67
London.....	4.15	3.64	1.12	3.13	7.44	3.98	7.72	1.68	2.89	1.25	1.17	5.05	43.22
Lynnville.....	2.40	4.65	0.87	5.53	5.46	7.09	9.43	1.49	2.11	3.23	1.56	3.81	48.53
McGhee.....	3.58	4.24	1.22	3.21	6.33	6.80	3.40	2.75	0.46	1.36	1.56	5.36	40.29
McMinnville.....	3.84	4.57	0.69	4.69	4.98	5.41	6.51	0.94	3.15	4.67	1.49	2.60	44.54
Maryville.....	3.32	4.56	0.69	2.99	6.68	5.46	5.76	4.33	2.50	.....	1.38	5.19	.....
Memphis.....	3.69	4.37	1.14	6.95	3.02	4.13	2.59	1.26	1.21	6.85	1.04	3.76	40.01
Nashville.....	3.45	4.87	0.85	6.10	5.81	6.61	4.45	1.73	0.74	3.20	1.17	3.92	42.90
Milan.....	3.42	3.70	0.15	6.41	3.94	3.43	5.76	1.19	1.83	7.03	0.57	2.85	40.28
Mountain City.....	4.12	2.90	0.47	3.00	4.31	5.22	3.93	3.74	2.77	2.20	2.10	3.96	

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Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Tennessee—Continued.</i>													
Sewanee.....	3.13	5.86	1.22	3.23	6.00	6.35	6.29	1.66	3.82	4.46	1.05	5.42	48.49
Sparta.....	2.17	2.52	0.55	4.10	6.08	4.90	8.57	2.86	0.45	4.22	1.13		
Springdale.....	5.22	4.60	0.75	3.65									
Springville.....	5.47	4.34	0.89	5.54	4.74	2.59	6.13	0.86	3.25	7.23	0.82	3.58	45.44
Tazewell.....	4.68	3.60	1.70	5.33	6.29	4.10	6.41	4.08	6.27	1.39	1.49	4.11	49.45
Trenton.....	5.72	4.90	0.93	5.02	2.85	3.22	4.50	2.21	1.73	7.22	0.90	3.51	42.80
Tullahoma.....	4.27	5.21	0.58	4.28	4.93	5.73	5.03	2.61	1.27	4.28	1.34	3.89	43.42
Union City.....	3.08	3.78	1.04	6.84	3.32	3.63	5.85	1.83	0.99	6.93	0.54	4.79	42.53
Walling.....	4.41	4.65	0.80	5.14	6.79	7.31	10.08	3.20	3.47	3.48	1.76	3.92	55.21
Waynesboro.....	4.76	4.67	0.56	9.00	6.16	5.73	7.50	1.98	3.66	3.18	2.18	4.32	53.70
Wildersville.....	5.11	2.70	0.77	3.39	3.96	2.97	8.68	1.15	3.63	5.06	1.41	4.16	42.99
Worsham.....	3.82	4.19	1.23	6.23	6.39	4.79	7.91	0.86	0.75	4.55	2.23	4.15	47.10
Yukon.....	4.41	4.56	1.77	3.61	4.71	6.49	6.44	2.76	0.89	4.38	1.69	3.99	45.70
<i>Texas.</i>													
Abilene.....	0.37	0.21	0.31	1.31	2.11	0.74	0.32	2.87	1.64	4.62	0.38	1.05	15.93
Albany.....	0.29	0.50	0.59	2.76	3.55	0.91	T.	1.28	3.07	3.64	0.25	1.20	17.98
Alvin.....	3.40	3.11	2.59	0.92	10.80	5.77							
Amarillo.....	0.05	0.17	0.34	0.59	2.09	0.66	3.57	2.19	0.05	0.26	0.28	T.	11.15
Anahuac.....	2.89	2.85	1.16	0.56	7.79	4.55	6.67	1.27	3.99	3.10	0.26	4.09	39.18
Antelope.....									1.33	1.58	1.45	1.20	
Archer City.....					4.25	1.34	1.36	1.15	0.86	1.92	0.99	1.03	
Arthur City.....	0.20	1.40	0.65	3.00	2.75	2.50	1.16	4.05	0.10	0.40	0.40	1.40	18.01
Austin.....	0.17	2.57	2.96	4.82	2.94	0.73	0.12	0.07	1.18	2.72	1.17	5.20	24.65
Ballinger.....	0.10	T.	0.26	2.94	1.42	1.77	0.60	0.75	2.02	1.42	0.85	0.58	12.71
Barstow.....	T.	T.	0.20	T.	T.	1.55	1.46	1.02	0.69	T.			
Bay City.....	0.79	1.88	0.88	2.24	3.59	1.88	1.92	1.64	3.37	3.63	0.30	3.40	25.52
Beaumont.....	3.41	4.98	1.59	0.68	7.59	3.68	10.29	3.35	1.69	3.61	0.09	4.86	46.42
Beville.....	3.01	0.77	4.19	4.55	4.07	0.26	1.54	0.77	3.77	1.54	0.48	1.42	29.80
Big Springs.....	0.23	0.03	0.28	1.00	0.69	0.71	1.24	0.04	0.42	2.32	0.17	0.12	7.25
Blanco.....	0.24	1.09	1.20	5.00	2.64	0.56	1.04	0.37	0.46	2.76	1.66	4.19	21.21
Boerne.....	0.05	0.68	3.70	3.88	1.91	0.61	0.84	T.	1.43	3.11	1.34	4.41	21.46
Bonham.....	0.40	1.64	2.16	2.09	1.44	0.04	T.	2.05	1.24				0.54
Booth.....	1.26	2.38	1.73	1.52	7.37	3.55	3.73	1.71	0.62	1.99	0.39	5.46	31.71
Boquillas.....							0.00	0.00	0.07				
Bowie.....	0.30	0.57	0.16	3.46	3.89	2.54	1.71	1.63	0.84	1.49	0.94	1.49	19.02
Brady.....										0.00			
Brazoria.....	2.45	2.86	1.00	1.07	3.77			0.71	3.03	2.77	0.48	2.06	
Brazos.....	0.64	0.67	0.58	3.03	5.57	1.38	0.39	0.60	0.94	1.94	0.38	0.38	15.90
Brenham.....	1.12	1.55	0.70	3.65	5.03	1.07	1.26	0.12	1.08	1.17	3.21	5.05	25.61
Bridgeport.....						3.59	0.28	0.14	0.58	0.29	1.36	0.80	1.63
Brighton.....	0.10	1.66	0.61	1.02	3.51	1.03	0.00	1.46	7.51	0.67	0.98	1.73	20.58
Brownsville.....	0.35	0.25	0.23	0.81	1.41	0.08	0.48	7.26	10.71	3.31	0.20	0.77	25.86
Brownwood.....	0.20	0.03	2.16	1.29	2.57	1.89	0.59	0.25	5.53	2.81	0.15	0.54	18.01
Cameron.....	0.62	2.54	2.35	4.63	5.29	2.49	0.56		0.56	2.88	2.15	3.88	
Cansdian.....										1.79	0.61	0.04	
Carmona.....	1.00	3.18	1.13	3.22	2.99	1.76	4.46	0.60	1.86	3.23	2.18	5.21	30.82
Channing.....	0.15	T.											
Childress.....	T.	0.10	1.05	1.11	3.68	1.87	1.25	3.60	0.60		T.	T.	
Chillicothe.....	0.67	0.12	1.08	1.62	2.74	1.97	1.42	1.74	1.22	1.20			
Clarendon.....	T.	T.	0.60	1.50	2.59	1.77	0.94	4.71	0.10	0.41	0.25	T.	12.87
Clarksville.....	1.66	1.55	2.55	2.64	4.12	2.64	1.04	3.25		0.60	0.60	4.84	
Claude.....	0.00	0.10	0.41	1.34	2.07	3.74	2.95	1.16	0.00	0.02	0.00	0.00	10.90
Coleman.....	0.80	0.00	0.50	0.80	2.18	0.79	0.90	0.10	2.74	1.63	1.63	0.40	
College Station.....	0.40	T.	0.65	1.65	1.70	0.90	0.43	0.85	4.48	1.73	0.80	0.97	14.56
Colorado.....		2.47	1.44	4.25	5.58	3.64	0.98	1.14	1.50	1.77	2.26	6.72	
Columbia.....		0.20			1.40	1.13	0.16	0.99	0.90	3.53	0.68	0.18	
Columbia.....	2.53	3.77	1.15	1.06	5.23	6.52	1.19	1.16	5.16	3.14	0.22	3.45	34.49
Columbus.....	1.54	1.76	1.00	2.80	3.80	1.76	1.94	0.92	2.30	2.38	0.88	5.12	26.20
Comstock.....	0.40	T.						0.60					
Corpus Christi.....	0.83	0.66	2.06	2.58	4.65	0.94	0.15	2.76	6.69	0.17	0.29	0.98	21.57
Corsicana.....	1.27	2.74	2.29	2.65	5.98	1.39	0.60	2.12	0.55	0.51	0.28	8.65	29.03
Crockett.....	T.	6.06	1.59	7.88	11.25	2.30	2.35	0.83	0.92	1.09	2.50	5.59	42.06
Cuero.....	4.22	2.59	1.55	3.99	12.40	4.79	0.62	0.72	1.66	0.57	0.45	4.68	38.24
Dalhart.....	0.20	0.03	0.12	1.51	2.96	2.72	2.83	3.00	0.65	0.60	0.60	0.52	13.41
Dallas.....	1.57	2.45	1.73	5.75	4.59	1.66	0.43	0.22	2.62	0.93	0.11	1.77	23.84
Danevang.....	1.15	0.45	1.20	2.85	8.00	3.65	2.80	0.60	2.25	2.30	0.50	3.55	29.30
Decatur.....		0.12	0.22	4.20	3.64		0.40	0.98		1.44	0.64	1.10	
Del Rio.....	0.03	0.02	2.68	3.30	0.55	0.52	0.18	0.26	0.72	1.01	0.12	0.29	9.06
Denison.....	0.94	0.83	0.86	3.24	3.26	0.35	0.80	2.72	1.61	0.84	0.73	1.00	17.18
Devine.....	0.44	0.12	0.75	3.34	3.08	1.88	0.60	1.38	0.80	2.40	0.90	0.96	16.45
Dialville.....	1.49	3.96	2.60	6.15	6.17	3.69	2.96	0.24	0.50	1.33	2.00	5.03	35.48
Dilley.....			1.50	3.20	1.00	1.65	1.04	1.00	1.02	0.00	0.70	0.99	
Dublin.....	0.59	0.42	2.00	3.11	1.84	2.06	0.26	0.95	3.21	1.69	0.18	0.60	16.91
Duval.....	0.15	2.20	2.44	2.55	2.44	2.64	0.51	0.45	2.03	3.95	2.27	4.20	25.73
Eagle Pass.....	0.12	0.03	1.30	2.22	0.45	0.65	0.09	1.02	2.69	0.47	0.12	0.14	8.52
Edna.....	2.95	1.66	1.55	3.62	8.11	0.96	1.53	1.05	4.68	1.97	0.90	4.30	32.18
El Paso.....	0.21	0.19	T.	T.	T.	1.55	0.69	1.18	0.24	0.02	0.63	0.30	4.03
Enclinal.....	0.17	1.25	5.32	2.57	2.41	1.90	0.70	1.76	1.19	2.16	1.52	1.63	22.58
Fairland.....		0.13	2.73	3.15	4.35	1.08	0.61	1.31	4.08	2.22	0.37	1.68	21.60
Falfurrias.....	1.54	1.97	1.70	2.06	3.44	1.05	1.85	0.96	1.79	2.03	1.42	3.61	23.43
Flint.....	1.31	3.82	2.23	4.79	3.80	2.92	2.04	0.20	1.16	0.93	0.74	5.37	29.31
Finley.....	1.91	4.70	4.65	1.60	3.86	8.22	0.10	3.00	0.12	1.30	1.30	3.20	28.96
Fort Clark.....	0.10	0.00	4.18	4.84	1.39	0.28	0.52	0.35	0.82	1.97	0.10	0.52	14.98
Fort McIntosh.....	0.45	0.03	1.02	1.12	1.18	0.30	0.25	1.75	1.47	2.30	0.10	1.00	10.97
Fort Stockton.....	0.24	0.22	0.17	0.39	0.52	1.02	0.23	T.	1.10	0.15	T.	0.03	4.07
Fort Worth.....	1.36	1.14	1.02	2.65	5.76	1.38	0.14	0.26	2.21	0.68	0.14	1.23	17.97
Fredericksburg.....	0.19	1.23	5.68	2.66	2.12	1.11	0.33	0.17	2.29	3.61	0.96	2.35	22.61
Gainesville.....	0.99	1.55	0.20	3.58	1.74	1.52	6.02	1.64	1.35				

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Texas—Continued.</i>													
Grand Saline.....		2.51	3.16	3.05	3.74	7.63	0.32	2.70	0.76	0.96	0.32	4.50	
Grapevine.....	1.61	1.38	1.09	3.49	4.32	4.05	0.47	0.72	3.05	0.57	0.43	4.93	23.01
Greenville.....	1.00	1.45	1.90	3.10	2.40	3.25	0.50	0.00	0.80	1.38	0.00	1.85	17.63
Hallettsville.....	1.75	2.21	1.96	2.83	5.49	0.96	1.50	0.05	1.02	0.94	0.60	5.96	25.27
Hanlin.....										1.00	0.81	0.70	
Harper.....	0.04	0.57	3.20	2.55	2.82	2.00	T.	0.17	1.06	2.57	0.30	1.40	16.58
Haskell.....	T.	T.	0.77	1.23	3.00	0.60	2.11	0.88	0.15	1.08	0.75	0.30	19.87
Hebronville.....	0.00	0.00	0.75	1.30	2.50	0.15	0.97	0.47	3.45	1.75	0.36	0.60	12.30
Hempstead.....	0.57	1.59	0.95	2.50	4.01	2.80	2.05	0.70	0.65	3.25	2.08	4.15	25.30
Henderson.....	2.10	5.19	1.84	4.64	6.92	2.86	0.58	2.62	1.08	2.19	2.03	4.61	36.66
Hico.....	T.	1.18									0.26	0.72	
Henrietta.....	T.	0.56	1.15	1.05	4.39	3.66	3.51	0.74	0.49	1.54	1.12	0.68	18.60
Bereford.....	0.25	T.	0.56	1.15	0.95	1.10	3.32	3.86	T.	0.20	0.03	0.15	11.77
Hewitt.....	0.69	2.52	2.47	0.92	6.22	1.14	0.92	0.58	0.25	0.75	0.55	2.73	19.74
Hillsboro.....	0.06	3.09	4.13	3.39	5.79	0.32	1.95	0.27	1.57	0.57			
Hondo.....		0.28	1.17	3.81	1.78	0.31	1.20	0.80	0.73	4.65	1.29	2.02	
Houston.....	1.59	2.31	0.84	0.80	7.21	2.10	4.49	2.45	1.04	1.98	0.88	4.90	30.59
Huntsville.....	1.02	4.41	0.83	6.48	4.35	4.60	5.77	0.65	2.09	2.05	2.39	7.11	41.81
Jayton.....						0.60	1.45	1.15	0.00	0.10	0.00	0.25	
Jewett.....		5.05	1.40	4.02	4.70	2.95	1.21	0.09	1.04	0.60	1.35	3.65	
Junction.....		0.00	2.40	4.20	3.10	1.20	1.00	0.00	2.95	2.85	0.00	0.85	
Kaufman.....	1.16	2.94	2.44	1.51	3.38	3.62	0.55	0.91	0.56	1.92	0.05	3.45	22.79
Keene.....		2.85	1.96	2.73	6.33								
Kerrville.....	0.00	1.03	6.17	3.45	2.71	0.50	0.35	0.00	0.95	3.33	0.75	3.57	22.79
Knickerbocker.....	0.63	T.	0.85	1.85	1.48	0.53	0.28	T.	2.55	1.59	T.	0.48	10.30
Kopperl.....	1.16	1.84	3.08	2.72	5.72	2.18	1.34	T.	3.89	0.78	1.81	1.28	23.90
Lagrange.....						0.73	2.74	T.	0.73	3.49	1.81	5.22	
Lamesa.....					0.49	0.78	1.40	0.55	1.09	0.98	0.64	0.13	
Lampasas.....	1.06	1.91	4.18	2.59	2.99	1.01	0.58	0.65	0.32	2.95	0.45	2.11	20.80
Lapsara.....	0.50	0.00	1.03	1.31	2.55		0.00	1.44	7.75	2.06		1.00	
Laureles Ranch.....	0.00	0.82		1.28					7.89	0.05	0.44	1.02	
Lewis Ferry.....	1.58	1.38	0.83	3.38	3.58	2.98	0.58	6.52	0.10	1.50	0.06	4.88	27.37
Liberty.....	2.46	2.72	0.94	2.19	6.28	4.66	7.42	1.95	2.77	4.27	0.82	6.06	42.54
Llano.....	0.02	0.04	4.14	1.16	3.13	0.06	T.	T.	0.06	1.18	0.05	0.07	9.91
Llano Grande.....	0.10	T.	0.50			1.00	1.90	2.35	5.30	0.60	T.	0.40	
Long Lake.....	0.84	4.20	1.28	3.02	5.89	0.54	2.19	0.19	1.10	1.94	0.24	2.91	24.34
Longview.....	1.76	3.99	1.67	4.99	5.93	1.89	2.41	0.72	0.71	1.09	1.88	5.19	32.11
Lufkin.....	1.58	10.60	1.06	4.33	8.48	5.00	1.43	0.42	1.93	1.26	1.98	5.19	43.26
Luling.....	0.81	1.49	1.40	4.17	3.55	1.03	0.06	0.06	1.96	2.65	1.76	3.95	23.74
McGregor.....			2.77	0.72	5.57								
Marathon.....	T.	0.00	0.60	0.15	1.11	2.98	1.30	0.25	1.33	0.08	T.	0.11	7.91
Marble Falls.....	0.16	1.46	4.02	3.70	2.81	0.94	0.14	0.74	1.40	2.06	0.14	2.18	20.75
Marfa.....	0.00	0.75	0.10	0.00	1.00	1.30	0.20	0.90	0.50	0.00	0.00	0.20	4.95
Marshall.....	2.40	4.22	1.63	4.69	4.55	1.08	0.72	3.16	0.19	1.32	2.70	6.28	32.92
Matagorda.....							1.35	1.35	3.64	2.43	0.00	1.89	
Memphis.....		T.	0.83	1.23	2.38	1.61	0.94	5.35	0.15	0.66	0.00	T.	
Mexia.....	1.26	4.03	2.09	5.07	5.61	3.06	2.13	2.10	1.18	1.30	1.29	3.34	32.46
Miami.....	0.65	0.10	0.46	1.86	2.16	0.98	2.17	2.91	0.33	2.12	0.01	0.02	13.77
Midland.....	0.00	0.00	0.00	0.00	0.60	0.83	0.73	0.28	3.35	1.20	0.08		
Mission.....									8.20	0.13	T.	0.84	
Mobeetle.....	0.00	0.10	0.25	0.46	2.50	0.40	2.06	1.05	0.00	T.		0.00	
Mont Belvieu.....	2.36	2.99	2.38	0.87	5.22	3.01	4.90	3.14	2.80	3.53	0.59	6.12	37.01
Mountain View.....						0.98	0.25	0.15	0.41	0.29	0.02	0.10	
Mount Blanco.....	0.08	T.	0.45	2.85	2.39	2.53	1.93	3.91	0.00	1.13	0.27	0.26	15.80
Nacogdoches.....	1.56	9.76	0.89	4.22	8.52	4.92	2.14	1.84	0.94	2.27	3.41		
Nazareth.....	0.06	T.		1.62	1.03	1.72	1.66	2.77	T.	0.33	0.44		
New Braunfels.....	0.27	1.03	0.19	3.70	2.71	0.39				2.52	0.45	2.36	
Ochiltree.....	0.50	T.	0.27	0.85	1.57	0.57	1.95	3.85	0.25	0.20	0.20	0.06	10.27
Palestine.....	0.48	3.18	1.92	3.64	5.75	1.49	1.75	0.96	1.13	1.06	1.92	3.23	26.51
Pampa.....	0.00	0.00	0.03	1.50	2.30	1.20				0.90	0.00	0.00	
Panther.....	0.88	1.71	2.20	1.59	4.30	1.42	0.18	0.15	2.94	1.09	0.10	0.78	17.34
Paris.....	0.72	1.75	2.35	2.86	4.31	0.98	0.72	3.09	0.88	0.67	0.12	2.22	20.67
Pearsall.....	0.00	T.	0.40	1.06	2.86	0.60	1.55	0.60	2.23	0.79	1.27	11.92	
Pierce.....	0.74	2.99	1.17	2.07	9.77	4.01	1.97	0.87	4.38	1.61	0.43	4.46	33.27
Plainview.....	0.30	T.	0.23	1.09	1.93	0.61	3.16	2.67	0.06	0.77	0.35	0.18	11.35
Plenoms.....	0.12	0.05	0.01		1.19	0.37	3.55	3.13	0.15	0.03	0.18	T.	
Port Lavaca.....	1.28	1.89	1.64	4.11	7.78	1.61	1.76	0.70	2.27	2.97	0.69	3.25	29.96
Post City.....					1.44	0.92	0.66	1.08	0.38	1.42	0.58	0.20	
Quannah.....		0.03	1.20	1.17	3.95	0.40	2.35	1.85	0.85	0.35	T.	0.30	
Raymondville.....										3.70	0.03	0.77	
Ricardo.....	0.80	0.57	1.35	2.46	1.37	2.20	0.96	2.05	6.98	0.76	0.06	1.18	20.74
Ringo Crossing.....	1.10	1.47	2.29	3.54	4.49	3.28	0.00	2.23	0.29	1.14	0.00	4.62	24.45
Riverside.....	0.60	3.94	0.77	4.47	4.01	3.15	3.30	0.23	2.07	0.21	2.10	4.38	28.23
Robert Lee.....	0.15	0.00	0.36	1.35	1.00	0.29	0.09	0.95	2.53	2.21	0.01	1.06	10.00
Rockland.....	2.23	2.89	0.87	2.40	4.68	6.10	2.13	0.00	3.27	0.53	2.00	5.28	32.36
Rockport.....												1.50	
Romero.....		0.50	0.34	0.73	0.69	1.00	1.38	1.92	0.57	0.04	0.12	T.	
Rossville.....	0.94	0.48	T.	2.52	2.23	1.14	0.40	0.85	0.91	2.78	1.59	1.56	15.50
Runge.....	2.44		2.69	3.77	10.70	1.14	1.06	0.55	1.53	0.45	0.45	1.87	
Sabinal.....	0.46	0.19	2.50	3.50	3.63	0.47	0.69	0.25	1.70	5.15	1.01	1.11	20.66
Salado.....					7.26	2.79	0.34	0.90	0.08	3.31	1.21	5.39	
San Angelo.....	0.60	0.15	1.18	2.00	0.82	0.94	0.08	T.	2.19	1.88	T.	0.40	10.24
San Antonio.....	0.88	0.78	0.42	3.31	1.56	0.55	1.37	0.37	0.56	3.35	1.38	1.69	16.22
San Augustine.....	1.92	5.22	1.02	1.65	8.82	4.78	1.81	1.45	2.89	2.83	2.75	5.28	40.42
San Juanito.....	T.	0.23	0.55	2.11	8.10	2.07	0.78	1.80	1.09	1.23	0.10	0.40	18.46
San Marcos.....	0.20	0.93	1.10	3.80	2.80	0.20	0.77	0.36	1.36	3.61	2.18	4.02	21.33
San Saba.....	0.35	1.35	4.77	3.07	4.85	0.75	0.27	0.06	0.95	2.36	0.31	0.60	19.69
Santa Gertrudes.....	0.91	0.00	0.93	2.55				2.96	5.25				
Sealy.....										1.84	0.74	3.08	
Seymour.....	0.50	T											

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Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Texas—Continued.</i>													
Temple.....	0.62	1.94	2.64	3.67	8.17	1.39	0.44	0.62	1.60	1.59	1.19	2.79	26.66
Texline.....		0.20	0.00	1.75	1.75	1.03	2.30	2.87	T.	0.25	0.40	0.05	
Theodore.....					0.00	0.59	0.59	0.40	0.40	0.20	0.00	0.00	
Thurber.....							0.24	0.40	1.01	2.58	0.58	1.15	
Tilden.....	0.37						T.	0.30	1.57	2.73	0.61	0.95	
Tivoli.....		1.12	1.55	2.51	5.63	0.30	0.00	0.77	4.72	0.00	0.36	3.03	
Tulia.....	0.33	T.	1.06	1.91	2.65	1.25	2.55	3.75	T.	0.70	0.51	0.36	15.07
Uvalde.....	0.55	0.49	2.68	3.27	2.04	0.50	0.42	T.	1.30	2.98	0.22	0.39	14.84
Valley Junction.....	0.10	1.14	0.90	4.68	4.80	1.98	0.44	0.00	1.58	0.94	1.34	4.84	22.74
Victoria.....	2.70	1.49	2.71	4.43	6.68	2.38	1.02	0.80	3.97	0.90	0.00	3.15	30.23
Waco.....	1.12	3.14	3.54	1.36	8.18	2.94	1.67	T.	0.12	0.88	0.72	3.70	27.37
Waxahachie.....	1.31	2.94	2.80	2.76	7.75	2.55	0.83	2.31	1.46	0.44	0.42	1.61	27.18
Weatherford.....	1.12	0.86	1.03	3.67	5.78	1.55	1.72	0.19	2.06	1.50	0.44	1.20	21.72
Wharton.....			1.61	1.79	8.86	2.20	2.50	2.38	1.97	1.88	0.00		
Wichita Falls.....									1.60	0.63	1.21		
Wills Point.....	2.87	2.90	2.30	1.98	3.79	1.54	0.33	2.13	2.06	0.64	0.62	4.30	24.96
Winfield.....		3.74	1.51	2.26	2.50	4.23	0.35	1.49	0.56	0.68	0.33	6.24	
Zapata.....	1.27	T.	1.49	0.41	1.07	0.58	0.25	0.59	7.25	2.02	0.25	0.49	15.67
<i>Utah.</i>													
Alpine.....	1.00	1.70	1.05	0.75	0.05	0.00	0.39	0.50	0.76	2.24	1.36	1.36	11.46
Baker.....	1.97	0.55	2.00	1.42	0.17	4.00	1.91	3.64					
Basin.....	2.74	1.74	2.60	1.64	0.28	2.38	2.19	2.86					
Beaver.....	1.19	0.42	1.38	0.18	0.14	0.86	2.08	2.36	1.77	2.73	1.10	1.72	15.93
Blackrock.....	1.28	0.05	0.50	0.00	0.00	0.48	1.99	0.71	1.20	1.60	0.80	0.28	8.89
Castle Dale.....	0.92	0.70	0.50	0.00	0.00	2.25	0.65	0.60	1.05	0.85	0.95	1.15	9.62
Castle Rock.....	0.55	1.68	0.31	0.40	0.68							1.21	
Cedar City.....	1.34	0.26	0.52	0.19	0.16		0.12	1.37	1.49				
Corinne.....	1.45	1.55	0.60	T.	2.45	T.	0.72	0.00	0.75	1.00	0.30	1.38	10.00
Deseret.....	0.25	0.60	0.60	0.10	0.28	0.04	0.38	0.50	2.19	1.30	0.33	0.53	7.10
Elkhorn.....	0.71	0.16	0.30	0.00	0.71	0.00	0.65				0.04	0.90	
Emery.....	0.30	0.30	T.	0.00	T.	9.45	0.20	1.35	1.44	0.95	0.65	9.50	6.04
Enterprise.....	4.70	0.16		0.02	0.02	0.00	0.51	1.32	2.15	2.54		0.45	
Escalante.....	2.45	1.00	0.32	0.43	0.00	0.72	3.21	2.72	1.63	1.31	0.22	1.04	15.05
Farmington.....	2.70	1.85	0.83	1.34	0.17	T.	1.66	0.02	0.91	1.97	1.16	2.24	14.85
Fillmore.....	1.02	0.92	0.88	0.38	0.58	0.10	1.84	0.68	2.46	1.84	0.87	1.70	13.27
Fort Duchesne.....	0.62	0.44	0.12	0.10	0.18	0.39	0.67	0.61	0.64	0.91	0.25	0.37	5.30
Friese Summit.....	2.39	3.42	1.27	1.36	1.33	0.28	1.27	1.08					
Frisco.....	0.59	0.02	0.43	0.00	0.24	1.61	0.96	0.88	1.25	1.90	0.50	0.53	8.91
Fruitland.....						0.46	1.69	0.84	2.02	1.84	0.05	0.82	
Garrison.....	1.39	0.23		T.	0.25	T.	1.33	0.40	1.52	0.50	T.		
Government Creek.....	1.40	1.25	0.81	0.57	0.28	0.02	0.95	0.46	0.62	0.88	0.62	0.53	8.89
Grayson.....	0.20	0.70	1.80	0.60	T.	1.25	0.05						
Green River.....	0.24	T.	0.75	0.00		0.53							
Hanksville.....			0.23	0.08	0.00	0.05	0.05	0.11	0.84	0.36	1.08		
Hober.....	1.10	2.09	0.95	0.46	0.31	0.08	1.01	0.11	1.25	1.19	0.60	1.47	10.62
Honefer.....	2.06	3.44	1.60	1.17	0.41	0.24	2.66	0.45	0.73	1.54	0.66	1.90	16.86
Hite.....	0.97	0.21	0.87	0.12	T.	0.77	T.	0.58	0.22	0.67	0.85	0.74	6.00
Kanosh.....	1.69	0.73	0.56	0.88	0.35	0.41	1.09	0.55	2.19	1.24	0.73	1.73	12.15
Kelton.....	1.40	0.70	T.	0.00	0.47	0.00	0.65	T.	0.17	0.05	0.55	0.50	4.49
Laasal.....	0.53	0.58	0.59	0.37	0.10	1.18	1.50	0.63	0.82	1.03	1.37	[1.40]	[10.10]
Levan.....	0.95	0.89	0.73	0.52	1.05	T.	0.26	0.18	2.28	1.55	0.78	1.35	10.54
Logan.....	1.87	1.90	1.25	0.20	1.08	0.00	0.79	0.05	0.55	1.73	0.87	1.45	11.74
Lucan.....	1.20	0.90	0.00	0.05	[0.45]	0.00	T.	T.	0.20	0.20	0.05	0.20	[3.25]
Manila.....		1.19	0.65	0.31	0.17	0.24	0.93	0.99	1.05	1.22	0.10	0.63	
Manit.....	0.72	0.30	0.36	0.09	0.19	0.38	0.79	0.30	2.19	1.52	0.39	0.98	10.24
Marysvale.....	0.57	0.80	0.50	0.20	0.00	0.50	0.62	0.77	2.38	1.24	0.83	0.91	8.57
Milford.....		0.80	0.50	0.20	0.00	0.50	0.50	0.50	0.50	0.50	0.65	1.20	
Millville.....	1.70	1.62	1.06	0.55	1.10	0.02	0.46	0.02	0.76	1.87	0.97	1.77	11.90
Minersville.....	1.66	0.46	0.88	0.27	0.05	0.27	1.19	1.25	1.48	1.52	0.72	1.41	11.16
Moab.....	0.71	0.03	1.31	0.03	T.	1.32	0.25	0.78	0.84	1.17	1.12	1.50	9.06
Modena.....	1.51	0.13	0.80	0.28	0.16	T.	0.91	1.32	1.68	1.35	1.01	0.35	9.50
Moroni.....	0.72	1.19	0.48	0.59	0.57	0.27	0.88	0.72	2.91	1.94	0.96	1.20	12.43
Mount Nebo.....	1.06	0.74	0.39	0.22	0.45	T.	0.98	1.19	1.05	1.40	[0.90]	1.15	[9.53]
Nephi (near).....	0.61	0.47	0.81	0.46	0.72	0.03	0.33	0.09	0.90	1.37	0.58	0.84	7.21
Oak City.....	1.71	0.93	0.95	0.35	0.50	0.00	1.06	0.37		1.77			
Ogden.....	2.60	2.64	1.52	0.21	1.33	T.	0.26	0.13	0.18	1.52	0.19	1.10	11.90
Orderville.....			1.00	0.04	0.03	0.36	1.39	1.31	3.78	1.35	1.16	0.88	
Panguitch Lake.....	[5.20]				0.05	0.26	3.41	1.60					
Park City.....	4.73	2.28	0.09	0.71					0.54	4.17	1.01	0.61	
Parowan.....	1.87	1.25	0.42	0.16	0.21	0.14	2.18	0.57	2.23	1.12	1.78	1.79	13.72
Payson.....	2.12	1.93	1.24	0.56	0.71	0.05	0.50	0.62	1.40	2.02	1.21	1.80	14.16
Pinto.....	2.13	0.21	0.84	0.30	0.04	0.00	2.05	1.99	1.36	1.37	1.48	0.71	12.48
Promontory.....	1.30	2.70	0.10	T.	0.05	0.00		0.00	0.40	0.40	0.40		
Provo.....	1.29	2.27	1.17	0.33	0.50	0.00	0.58	0.31	1.38	1.72	1.15	1.85	12.55
Ranch.....	2.52	0.81	0.42	0.44	T.	0.46	2.88	2.28	3.76	2.97	2.01	1.32	19.87
Randolph.....	0.71	1.50	0.31	0.75	0.23	0.15	1.01	0.42	0.50	0.81	0.47	0.57	7.43
Richfield.....	T.	1.20	0.20	T.	T.	0.16	1.00	0.10	1.10	1.17	0.37	0.92	6.22
Saltair.....	1.14	1.03	[1.65]	0.51	0.49	0.17	0.92	0.26	0.24	2.41	0.89	0.87	[10.53]
Salt Lake City.....	0.99	1.00	1.58	0.66	0.47	0.17	0.52	0.33	0.74	2.64	0.99	1.16	11.25
St. George.....	0.49	0.03	1.08	T.	0.00	0.60	1.72	0.26	[1.20]	0.91	1.04	0.86	[8.19]
Schpilo.....	0.04	0.33	1.30	0.43	0.51	T.	0.62	0.44	2.99	1.48	1.04	1.24	11.92
Sevier Mine.....	2.90	2.70	1.40	0.60	0.02	0.70	1.87	1.55					
Silver City.....	0.67	0.65	0.44	0.34	0.25	0.30	0.22	0.62	0.96	1.64	0.63	0.80	7.62
Spanish Fork.....			1.39	0.40	0.79		0.43	0.23	1.06	1.98	0.71	3.84	
Springdale.....	1.59	T.			T.	0.20	0.18	1.20	2.60	2.05	2.60	1.30	
Standrod.....	1.47	1.04	0.06	1.39	0.99	0.41	1.75	0.64	1.85	[1.00]	0.94	0.85	[12.40]
Strawberry Tunnel.....	2.95	6.70	1.36	1.06	0.88	0.29	0.71	0.91	2.66	2.11	1.20	2.70	23.47
Sunnyside.....	0.90	0.80	0.35	0.14	0.17	0.45	1.46	0.42	1.29	2.39	1.18	0.95	10.50
Teesdale.....					0.00	0.70	1.04	1.69	1.42	1.68	0.91		

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Vermont.</i>													
Bloomfield.....	3.14	2.73	1.28	3.58	4.04	3.74	4.17	3.72	3.47	2.07	1.44	1.74	36.02
Burlington.....	2.70	3.00	0.51	2.10	3.42	3.10	3.06	2.78	2.75	3.34	2.43	2.46	31.63
Cavendish.....	4.19	3.20	0.60	2.40	3.10	3.60	1.82	3.68	4.04	0.99	3.03	1.41	32.06
Chelsea.....	2.96	3.81	0.65	2.61	4.38	2.76	1.74	2.96	5.20	1.89	1.94	2.07	32.97
Cornwall.....	2.90	2.76	0.53	2.21	3.96	3.54	2.05	5.02	6.76	.....	2.59	2.27	.....
Enosburg Falls.....	2.08	3.54	1.56	3.10	4.09	3.68	2.45	4.81	2.68	4.51	2.63	2.71	37.83
Manchester.....	1.72	2.99	1.43	2.16	4.51	2.81	2.48	3.37	4.35	1.89	2.63	0.87	31.21
Northfield.....	2.80	3.63	0.60	2.17	4.51	3.18	1.96	2.57	4.72	1.68	2.19	1.70	31.71
St. Johnsbury.....	2.12	4.55	1.46	3.25	4.25	2.90	2.92	4.53	4.55	1.44	2.37	2.12	36.46
Vernon.....	4.22	2.17	0.85	2.66	2.80	2.81	2.00	2.13	4.97	1.41	2.69	1.70	30.41
Wells.....	4.19	5.01	1.06	2.14	4.11	2.75	2.04	5.03	5.99	1.53	3.06	3.33	40.24
Woodstock.....	3.99	4.86	0.91	2.72	3.57	2.71	1.26	4.12	4.95	1.46	2.44	2.14	35.13
<i>Virginia.</i>													
Arvonnia.....	4.86	2.92	0.57	4.79	3.07	5.38	7.38	2.87	1.59	4.74	0.96	2.28	41.41
Ashland.....	1.79	0.94	2.14	8.11	2.36	4.63	5.53	1.90	2.36	4.78	1.44	0.63	36.61
Big Stone Gap.....	4.35	3.80	1.55	4.72	5.55	4.43	5.51	4.87	2.64	1.30	2.27	3.99	44.98
Blacksburg.....	3.33	2.43	1.02	4.24	4.15	10.44	7.15	2.32	2.13	3.21	0.73	2.19	43.39
Buchanan.....	3.66	1.55	0.80	3.73	2.93	8.42	4.21	1.06	2.50	4.04	0.41	1.38	34.71
Burkes Garden.....	3.19	3.00	1.32	4.29	4.07	5.12	3.97	4.08	2.97	2.55	2.04	3.85	40.45
Callville.....	6.45	2.75	2.63	9.68	2.81	5.16	4.24	6.12	.....	.....	.....	.....	.....
Cape Henry.....	2.61	2.25	2.93	1.59	3.04	4.07	5.08	3.87	0.69	2.96	0.97	3.02	33.68
Charlottesville.....	4.73	3.64	0.66	4.59	2.86	8.44	7.95	3.00	1.78	5.45	1.64	1.93	46.67
Clarksburg.....	3.58	2.48	3.10	5.59	2.85	4.26	1.93	4.90	1.71	5.18	1.05	4.42	41.05
Columbia.....	4.10	2.67	1.23	5.78	2.93	5.17	5.79	1.61	0.23	5.13	1.17	1.99	37.78
Culpeper.....	4.18	3.48	0.60	3.70	2.86	8.25	7.02	3.09	1.30	4.54	1.03	1.90	42.01
Dale Enterprise.....	3.15	2.80	1.08	3.64	2.89	11.11	6.59	4.61	2.29	3.33	0.80	2.07	44.36
Danville.....	3.38	2.06	1.54	4.66	2.14	5.15	3.55	4.17	5.24	3.36	1.02	3.04	39.31
Diamond Springs.....	2.64	2.55	3.98	2.09	4.04	6.79	4.07	3.77	1.04	4.03	1.68	4.07	41.35
Doswell.....	.....	.....	.....	7.25	3.05	.....	3.49	2.37	0.78	3.43	.....	0.65	.....
Eastville.....	2.63	2.12	3.13	2.69	2.92	5.73	3.83	6.42	0.72	4.58	1.25	3.77	39.89
Elk Knob.....	4.90	3.79	0.90	4.04	5.80	3.23	7.40	4.00	3.11	2.30	2.05	4.34	45.86
Fredericksburg.....	3.83	1.91	0.82	7.76	3.42	5.43	5.41	5.17	1.29	5.05	1.23	2.72	44.04
Galax.....	3.57	3.48	0.31	4.01	2.91	9.24	4.30	4.81	1.75	4.02	0.83	1.43	40.66
Hampton.....	2.04	1.67	3.38	1.90	3.43	5.17	3.90	6.33	1.32	3.39	1.18	4.05	37.76
Hot Springs.....	3.98	2.04	1.37	4.12	2.20	8.66	7.58	0.86	2.96	3.08	1.35	1.85	40.04
Ivanhoe.....	3.06	2.06	0.88	3.90	2.90	6.56	3.59	2.28	1.83	4.05	1.24	2.64	34.99
Ivor.....	2.25	1.72	3.15	4.08	4.63	9.91	6.47	4.76	1.70	7.30	1.45	3.89	51.31
Lassiter.....	4.22	2.74	2.00	5.19	3.43	5.07	5.80	1.88	2.35	3.59	2.38	2.24	40.89
Lebanon.....	4.57	2.89	1.60	3.12	2.92	3.21	6.48	3.37	2.17	1.90	3.49	3.63	39.55
Lexington.....	3.30	2.71	0.58	5.02	2.77	6.36	3.27	1.33	0.74	3.37	0.56	0.98	31.02
Lincoln.....	4.71	3.02	0.50	4.43	2.38	5.33	3.09	1.96	1.30	4.48	1.16	1.83	33.19
Lynchburg.....	3.74	3.58	0.36	5.37	2.78	6.59	4.19	2.32	3.19	5.09	0.87	2.00	40.28
Marion.....	3.04	2.56	0.87	3.73	2.99	4.40	4.76	4.53	2.94	2.30	2.93	3.05	38.19
Max Meadows.....	2.82	1.61	0.68	3.64	4.20	6.56	.....	.....	.....	2.53	.....	1.57	.....
Mendota.....	4.66	2.43	2.08	2.99	4.61	4.43	4.67	3.14	6.13	.....	.....	2.38	.....
Mount Weather.....	4.53	2.45	0.43	3.64	2.40	5.90	3.28	1.91	1.22	3.73	0.93	3.67	34.09
Newcastle.....	3.64	1.34	1.16	7.86	5.96	10.47	7.65	2.73	3.34	4.95	1.16	2.14	52.40
Newport News.....	2.48	2.89	3.85	4.38	3.68	6.07	7.00	7.32	1.61	4.96	1.36	4.44	50.40
Norfolk.....	2.53	2.10	3.43	2.46	3.48	7.07	6.16	4.05	0.89	3.33	1.02	3.83	40.35
Petersburg.....	.....	1.72	3.11	8.32	2.05	4.94	.....	9.65	2.12	4.41	0.97	3.93	.....
Quantico.....	4.22	1.76	0.79	5.89	3.54	4.99	6.61	2.49	.....	5.45	1.03	1.90	.....
Radford.....	2.54	1.94	2.10	4.46	4.28	7.38	5.02	3.80	1.74	3.70	1.20	1.48	39.64
Randolph.....	4.14	2.48	1.28	3.00	3.06	4.80	1.94	2.98	3.52	3.30	1.43	3.38	35.34
Richmond.....	3.38	2.38	1.42	8.74	2.37	5.67	6.40	2.90	1.07	5.03	0.98	2.60	43.14
Rocky Mount.....	4.23	2.48	2.80	5.35	3.35	8.36	2.79	2.83	1.56	4.59	1.70	3.02	43.95
Saxe.....	5.52	3.88	3.82	3.88	5.94	7.62	6.68	4.54	5.35	1.34	3.00	3.72	55.29
Spiers Ferry.....	3.62	2.18	3.31	5.14	4.74	6.73	7.35	4.30	1.29	7.00	1.14	3.79	50.69
Spotsville.....	3.48	3.18	0.75	4.66	2.58	7.66	6.59	3.48	0.67	3.65	0.87	2.02	39.69
Stantons.....	4.19	1.82	T.	4.23	2.13	.....	3.16	0.34	0.42	.....	0.99	1.95	.....
Warsaw.....	3.94	2.24	3.42	6.04	3.61	3.47	3.75	6.17	0.18	7.39	2.77	2.40	45.38
Williamsburg.....	5.03	2.00	4.62	7.10	3.65	5.15	6.40	6.10	1.25	3.94	1.40	2.72	49.36
Woodstock.....	3.77	2.32	0.29	4.15	2.06	7.22	4.88	0.93	1.18	2.01	0.88	1.69	31.38
Wytheville.....	2.72	1.87	0.91	3.79	2.56	5.06	3.24	3.70	3.85	2.94	0.93	2.12	33.69
<i>Washington.</i>													
Aberdeen.....	14.39	10.23	6.59	5.28	3.50	3.31	0.29	0.47	4.36	10.08	15.31	12.22	86.03
Anacortes.....	4.06	4.22	2.29	1.37	0.78	0.91	0.00	0.72	1.17	3.99	4.04	4.66	28.21
Baker.....	13.40	8.53	5.48	4.49	4.43	2.41	0.64	1.24	1.81	11.70	14.66	11.60	80.45
Bellingham.....	3.65	4.05	3.45	1.98	2.34	1.79	0.05	0.76	0.72	4.94	5.89	7.35	36.97
Bisnie.....	6.23	3.53	3.47	2.64	2.80	1.70	0.00	0.78	1.15	6.75	.....	.....	46.49
Blewett.....	4.32	6.96	4.21	0.74	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bremerton.....	8.22	5.62	1.82	2.30	1.03	0.66	T.	0.09	1.34	5.96	11.51	5.15	43.70
Brewster.....	.....	0.40	0.65	0.18	1.04	0.22	0.13	0.04	0.78	0.45	2.63	1.19	.....
Bumping Lake.....	.....	.....	.....	.....	.....	.....	1.52	0.05	0.12	0.92	5.59	12.83	7.64
Cashmere.....	.....	.....	0.36	0.35	0.21	0.00	T.	1.09	1.53	4.55	1.85	1.85	.....
Cedar River.....	7.46	8.62	4.90	4.62	3.67	1.74	0.07	1.45	1.90	8.42	10.73	6.04	59.64
Centralia.....	8.55	6.54	5.78	3.32	2.33	2.02	0.00	0.52	1.78	5.35	12.64	6.90	55.73
Cheney.....	1.00	2.21	0.97	0.88	0.70	1.10	0.00	T.	2.10	1.54	3.46	.....	.....
Clealum.....	2.04	2.83	3.84	1.18	0.80	0.69	0.00	0.00	0.74	2.17	5.13	2.54	21.96
Clearbrook.....	7.32	4.60	5.61	2.93	4.17	1.97	0.02	1.56	2.45	8.70	14.79	9.71	63.88
Clearwater.....	22.23	9.75	8.75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Colfax.....	.....	.....	.....	1.00	0.97	0.10	.....	.....	.....	2.29	2.34	.....	.....
Colville.....	1.55	0.95	1.12	0.48	0.73	1.15	0.50	0.71	0.86	2.82	2.04	.....	12.81
Conqually.....	2.42	0.47	0.89	0.67	1.17	0.59	0.02	1.62	0.43	0.77	3.31	1.33	13.09
Cowiche.....	.....	.....	.....	.....	0.49	0.00	0.07	.....	.....	.....	.....	.....	.....
Crescent.....	1.63	1.07	0.99	0.77	1.05	0.36	0.11	0.06	1.81	1.37	3.18	1.49	13.80
Davenport.....	0.79	0.50	1.24	0.95	0.60								

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Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Washington—Continued.</i>													
Fort Simcoe.....	1.61	2.04	0.50	1.00	0.61	0.30	0.00	0.00	1.80	1.24			
Goat Lake.....	14.65	12.59	7.58	5.50	5.47	0.98	0.74	1.36	2.97	20.10	23.74	13.00	108.68
Gold Creek.....	1.68	3.29	2.16	0.89	0.60	0.80	0.00	0.03	0.40	3.70	4.21	0.69	18.35
Goldendale.....	1.69	3.24			0.31	0.00		T.	0.60	0.58	5.00	1.86	
Granite Falls.....	6.07	5.83	4.36	5.15	3.85	3.49	1.05	1.92	2.12	8.08	9.06	8.43	58.45
Hatton.....	0.85	0.80	0.76	0.89	0.37	0.41	0.07	0.43	1.09	0.48	1.80	0.66	8.61
Huntsville.....	3.86	4.00	2.44	1.63	0.88	0.32	0.02	0.00	0.56	1.81	3.53	1.63	20.68
Irene Mountain.....	0.74	1.33	1.06	0.18	0.81	1.65	0.23	1.04	0.57	0.43	1.49	1.05	10.58
Kennewick.....	1.23	0.98	0.81	0.23	0.26	0.30	T.	0.02	0.05	T.	1.25	0.68	5.81
Kettle Falls.....	1.06	0.93	1.44	0.41	0.53	1.70	0.09	0.34	0.30	1.05	3.05	2.67	13.57
Kiona.....	0.91	0.45	0.81	0.34	0.48	0.31	0.00	0.00	0.72	0.35	1.36	0.57	6.30
Kosmos.....	6.98	8.86	6.39		2.35	1.60	0.11	0.51	0.54	4.46	8.46	6.29	
La Center.....	6.79	7.91	2.16	3.68	3.29			0.45	0.96	3.64	9.99	4.73	
La Crosse.....	2.40	2.96	1.85	1.66	0.61	0.29	0.28	T.	0.44	1.31	3.48	1.34	16.62
Lake Cleatum.....	7.10	10.71	2.57	1.56	0.74	1.06	0.03	T.	0.81	6.59	9.42	3.40	43.99
Lake Kachess.....	7.27	13.79	5.82	2.93	1.39	1.55	0.04	0.04	1.58	8.05	11.76	4.13	58.35
Lake Koecheluis.....		16.00	8.41	5.42	3.32	1.63	0.20	0.50	2.15	6.73	13.95		
Lakeside.....	1.14	0.92	1.21	0.08	0.08	0.16	0.08	0.41	0.67	0.61	2.74	1.10	9.85
Laurel.....	5.78	6.41	2.99	2.46	1.64	1.20	0.00	0.04	0.93	3.23	6.96	3.46	35.10
Launier.....				0.44	1.52	1.27	0.30	1.05	0.82	1.03	2.42	2.61	
Lester.....	7.73	10.80	6.00	3.20	2.25	0.76	0.10	0.75	1.90	8.98	7.55	5.92	55.94
Lone Tree.....	12.89	8.53	5.56	5.77	2.56	1.91	0.06	0.23	3.51	11.37	16.61	10.38	79.38
Lost Creek.....	1.60	0.55	1.53	0.20	1.31	0.69	T.	0.36	0.45	0.59	1.26	1.46	10.00
Lucerne.....					0.37	T.	0.00					2.14	
Lyle.....	3.99	2.00	T.										
McCumbers Ranch.....	2.70	4.10	4.20	1.50	0.90	1.00	0.00	0.05	0.90	3.70	7.90	4.00	30.95
Mottinger.....	1.02	0.73	1.53	0.28	0.85	0.56	0.00	0.00	0.27	0.30	1.67	0.71	7.92
Mount Pleasant.....	7.40	8.90	4.21	4.42	4.02	2.04	0.00	0.23	1.25	4.95	10.48	5.86	54.36
Moxee.....	0.87	0.81	0.25	0.17	0.36	0.25	T.	0.10	0.37	0.12	1.53	0.91	5.74
Newport.....		2.39	1.33	1.95	1.59	0.74	0.57	0.05	1.93	2.53	5.53	3.37	
North Head.....	10.04	6.75	4.24	3.44	2.29	2.22	0.13	0.45	2.42	4.05	9.12	6.58	52.63
Northport.....	0.98	1.65	1.23	0.40	1.12	0.21	0.01	1.36	1.06	1.46	3.30	2.95	15.10
North Yakima.....	0.73	0.64	0.21	0.08	0.35	0.55	0.00	0.12	0.38	0.12	1.49	0.71	5.38
Nutland.....	1.43	1.41	0.09	0.52	0.66	0.32	0.00	0.04	0.03	0.22	2.63	0.92	8.27
Odessa.....	1.05		0.60	0.40	0.34	0.31	T.	T.	2.39	0.64	2.26	0.98	
Olga.....	5.47	3.74	2.54	1.93	1.50	1.31	T.	0.50	1.16	4.96	5.72	6.95	35.73
Olympia.....	10.19	9.17	5.60	3.62	1.67	1.04	0.00	0.05	1.43	8.07	14.41	7.71	62.96
Omak.....	1.80	0.25		0.00	0.35	0.15	T.	T.	0.51		1.97	1.27	
Oroville.....	1.09	1.27	1.48	T.		0.98							
Peola.....	2.12	4.98	3.20	2.06	1.30	0.64	0.21	0.03	1.70	3.03	5.04	1.98	25.69
Pomeroy.....	1.97	3.80	1.50	1.23	0.36	0.15	0.25	0.30	0.30	1.26	3.58	0.61	14.78
Port Cresswell.....	6.57	5.32	2.60	1.58	0.77	1.35	T.	0.10	1.58	8.92	1.53	7.46	41.19
Port Townsend.....	2.05	1.76	1.72	1.27	1.05	0.97	0.32	0.53	1.38	1.89	1.99	2.47	17.40
Pullman.....		2.40	1.35	2.26	0.52	0.25	0.08	T.	0.76	2.43	3.30	2.24	
Quinalt.....	21.57	14.85	8.81	6.33	3.23	4.36	0.30	0.65	5.52				
Republic.....	1.10	0.60	1.22	0.35	0.73	1.22	0.19	1.13	0.58	1.01	1.24	1.34	10.71
Rex Creek.....			1.20	0.39		0.21	0.00					2.80	
Ritzville.....	1.22	0.67	1.12	1.09	0.23	0.65	0.12	0.10	1.02	0.81	3.00		
Rock Lake.....	1.35	1.03	1.09	1.30	0.55	0.40	0.32	T.		1.36	3.54	1.64	
Rosalia.....	2.64	2.22	2.07	1.52	1.00	0.28	0.12	0.00	1.01	2.40	3.89	1.50	18.65
Russells Ranch.....	4.09	6.58	4.71	1.38	1.19	0.89	0.09	T.	1.25	2.48	8.18	2.09	32.93
Seattle.....	5.08	5.03	1.80	2.41	1.88	0.82	0.01	0.17	1.04	4.02	8.47	3.47	34.20
Sedro Woolley.....	4.40	4.86	4.06	3.65	3.47	3.04	0.50	1.83	2.27	8.43	6.37	8.25	51.04
Sitcom.....	0.91	1.01	0.50	0.71	0.58	0.42	0.00	0.00	0.25	0.11	2.01	0.79	7.29
Skagit Power Dam.....	13.64	9.03	6.40	5.00	4.20	1.89	0.13	0.71		14.97	17.54	9.56	
Snohomish.....	4.50	4.20	2.49	2.85	2.42	2.27	0.33	0.45	2.10	5.03	7.43	5.51	39.58
Snoqualmie Falls.....	7.15	8.58	6.76	4.21	3.18	1.80	0.02	0.36	1.26	8.99	11.00	5.96	59.27
Snyders Ranch.....	2.66	1.96	1.63	0.08	0.87	0.18	0.00	0.93	0.71	1.55	4.34	1.27	16.18
South Bend.....		13.70	11.25	5.15	3.73	3.02	0.06	0.33	4.02	11.98	17.13	11.41	
Spokane.....	1.28	1.58	0.78	1.32	0.88	0.21	0.68	0.15	1.93	1.42	3.71	1.50	15.44
State University.....	5.95	5.12	1.87	2.66	2.27	0.86	0.11	0.37	0.72	4.67	8.36	3.57	36.53
Stokes Ranch.....	2.50	1.70	0.73	0.13	1.35	0.49	0.65	0.95	0.50	1.45	5.44	1.49	17.38
Sullivan Lake.....	2.43	1.22	1.50	1.69	1.49	1.27	0.34			2.03			
Summer.....	6.28	6.31	4.29	3.04	2.74	1.49	T.	0.22	1.04	5.98	8.61	5.31	45.31
Sunnyside.....	0.79	0.59	0.43	0.44	0.48	0.53	0.00	0.02	0.40	0.16	1.22	0.68	5.74
Tasoma.....	7.09	6.51	2.90	2.66	2.17	0.90	0.01	0.12	1.62	5.22	9.65	5.80	45.42
Tatoosh Island.....	11.05	6.47	3.92	4.18	2.34	1.73	0.13	0.42	2.85	8.82	12.98	12.25	67.14
Tieton.....	3.19	3.31	2.87	1.05	1.02	0.46	0.03	T.	0.67	2.26	4.79	1.71	21.36
Touchet.....	1.40	1.22	0.77	0.72	0.34	0.57	T.	T.	0.48	0.41	1.90	0.73	8.54
Touchet Ridge.....	5.56	11.70	7.17	3.63	2.73	1.44	0.51	0.15	0.54	4.95	12.63	3.91	54.92
Trinidad.....	1.82	0.40	0.31	0.26	0.09	T.	0.03	T.	0.66	T.	1.67	1.72	6.96
Twisp.....		1.89											
Tyee.....	3.88	4.14	0.91	0.22	0.48	1.17	0.00	0.05	1.16				
Vancouver.....	6.47	5.74	2.17	3.41	2.11	1.20	0.02	0.29	1.34	3.42	8.78	3.59	38.54
Vashon Island.....	7.50	6.57	2.55	2.76	2.42	0.76	0.00	0.52	1.47	6.17	12.34	5.74	48.80
Wahluke.....	0.82	0.26	0.33	0.13	T.	0.42	0.64	0.17	0.83	0.51	1.80	0.73	6.04
Wallace.....	2.39	0.54	0.59	0.25	1.56	1.18	0.05	0.90	0.39	1.03	3.35	1.19	13.12
Walla Walla.....	2.42	2.73	1.65	1.47	1.40	0.63	T.	0.11	0.70	1.39	3.69	0.63	16.82
Watsville.....	1.17	1.25	1.54		0.25	T.	0.07	0.17	0.53	0.37		0.98	
Wenatchee (near).....	1.40	1.13	1.47	0.17	0.19	0.25	0.11	0.41	0.98	0.48	2.75	0.95	10.30
Wilbur.....	1.65	0.60	1.00	0.55	0.94	0.60	0.36	T.	0.63	1.12	2.62	1.12	11.19
Yale.....	15.75	17.41	5.94	6.05	3.90	2.68	0.00	0.30	1.82	11.25	23.25	10.09	98.53
Zindel.....	2.32	2.90	1.49	2.83	2.45		T.	0.92	2.96	2.11	6.42	0.40	
<i>West Virginia.</i>													
Bancroft.....	5.98	3.29	0.52	3.49	5.87	6.27	5.22	1.32	4.48	1.44	1.59	2.97	42.14
Bayard.....	7.18	3.02	0.71	3.17	3.20	7.11	2.80	1.21	2.24	2.00	2.72	3.81	39.17
Beckley.....	4.63	4.61	0.80	9.07	2.49		10.44	3.79	3.53	1.69	2.25		

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>West Virginia—Continued.</i>													
Cuba.....	6.03	3.04	0.03	2.95	4.43	4.86	4.21	1.97	2.80	0.94	1.40	2.86	35.52
Davis.....	4.70	1.15	0.55	2.70	3.50	10.45	3.10	1.65	3.20	1.40	1.50	2.54	.....
Elizabeth.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elkhorn.....	2.54	2.41	1.90	5.70	3.54	5.53	7.24	2.29	2.86	2.40	1.90	2.45	40.76
Elkins.....	5.77	2.22	0.08	2.24	3.91	8.05	4.07	2.70	3.61	2.21	2.26	2.72	40.44
Fairmont.....	7.92	2.72	0.85	2.17	3.16	4.25	5.74	1.90	5.67	1.80	2.30	2.55	40.23
Franklin.....	2.05	1.84	0.20	2.50	.....	8.76	7.52	3.82	.....	2.22	.....	1.00	.....
Glenville.....	6.96	4.49	0.87	3.02	4.62	4.22	3.41	1.03	4.76	1.96	3.57	3.28	40.93
Grafton.....	9.02	4.80	0.38	2.94	3.78	4.17	5.15	2.01	4.41	2.64	3.21	3.94	46.81
Green Sulphur Springs.....	.....	2.02	0.10	7.23	3.55	5.84	4.80	2.90	5.48	1.84	1.76	1.99	.....
Harpers Ferry.....	3.73	2.41	0.86	5.30	1.81	5.30	1.27	0.90	0.99	1.71	1.04	2.12	27.44
Hinton.....	3.30	1.36	2.04	4.06	3.39	5.00	4.77	2.38	5.31	1.42	1.20	2.23	36.46
Huntington.....	5.14	2.40	0.56	4.30	5.16	5.94	6.68	2.12	3.36	1.84	1.90	3.10	42.50
Lewisburg.....	3.91	2.09	0.62	3.71	2.29	6.05	4.69	3.77	3.01	1.18	1.53	2.18	35.03
Logan.....	5.00	4.57	1.06	4.10	5.33	7.09	13.16	2.23	4.84	2.30	2.45	4.30	57.09
Lost City.....	4.63	2.10	0.49	3.67	2.17	8.33	2.30	1.59	1.28	1.65	1.08	1.80	31.09
Lost Creek.....	6.32	2.43	0.28	1.66	4.13	3.51	3.99	4.07	5.16	1.55	1.84	2.04	36.98
Madison.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mannington.....	7.02	3.42	0.16	2.92	4.64	3.11	4.02	2.07	4.98	1.51	2.53	2.59	38.37
Marlinton.....	4.32	2.75	0.59	2.34	2.67	7.35	7.09	5.38	3.56	2.03	1.14	3.63	43.24
Martinsburg.....	3.41	2.79	0.17	3.96	2.29	6.06	4.55	1.06	0.92	1.76	0.95	1.45	29.07
Moorefield.....	4.79	2.05	0.03	4.81	2.51	9.86	0.54	0.84	2.28	1.15	0.82	1.59	31.87
Morantown.....	6.70	2.63	0.36	2.06	3.69	4.89	4.08	2.32	3.34	1.77	2.24	2.13	36.21
Moundsville.....	5.60	3.74	0.08	2.45	3.89	1.52	4.33	1.99	3.20	2.03	1.16	2.37	32.36
New Cumberland.....	5.38	4.50	T.	2.75	3.75	1.75	2.35	1.70	4.75	1.75	1.30	2.60	32.58
New Martinsville.....	5.98	3.95	0.12	3.11	3.79	1.55	4.75	1.09	2.22	2.09	1.44	2.92	33.01
Nuttallburg.....	2.52	0.98	0.10	1.63	1.55	5.86	5.32	2.61	3.29	2.57	0.92	1.75	29.10
Parkersburg.....	6.53	3.42	0.10	1.87	3.34	1.75	2.98	1.19	1.58	1.15	1.64	3.34	28.89
Parsons.....	9.01	2.20	0.98	2.97	4.87	11.27	3.89	0.92	2.18	1.50	2.35	5.15	47.29
Phillippi.....	7.02	4.21	0.67	2.34	3.32	4.45	5.12	2.14	4.27	2.98	2.98	2.24	40.44
Pickens.....	10.10	6.56	1.52	4.65	5.26	10.00	6.74	3.67	5.46	2.96	4.41	6.90	68.83
Pineville.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Point Pleasant.....	5.24	3.88	0.04	3.02	3.86	4.08	5.62	0.88	3.11	1.46	1.93	4.03	37.15
Powellton.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Princeton.....	4.78	2.95	2.25	6.25	3.70	9.05	7.70	1.50	3.40	2.90	2.10	4.25	52.83
Robertsburg.....	5.79	3.29	0.43	3.81	4.39	7.32	5.42	0.99	4.32	1.13	1.62	3.28	41.79
Romney.....	4.14	2.04	0.65	3.33	2.75	8.14	1.47	1.51	2.71	1.33	1.85	1.88	31.80
Rowlesburg.....	8.33	3.10	0.78	2.82	3.92	8.18	3.26	1.72	4.52	2.12	3.02	3.25	45.02
Ryan.....	6.29	3.42	0.39	3.14	4.90	7.12	3.83	1.96	5.35	1.63	1.61	2.99	42.53
St. Marys.....	6.47	4.15	0.24	2.67	4.15	3.22	1.90	1.23	2.70	2.83	2.09	2.84	34.49
Smithfield.....	5.31	5.64	0.10	3.84	4.56	2.62	6.78	1.22	3.29	1.93	2.75	2.01	40.05
Spencer.....	6.83	3.73	T.	3.60	5.06	6.57	3.83	0.70	6.04	1.49	1.78	3.25	42.98
Sutton.....	6.58	2.85	.....	.....	.....	6.93	5.00	.....	.....	.....	.....	.....	.....
Terra Alta.....	9.19	5.53	.....	4.08	5.95	8.21	4.40	1.59	.....	.....	.....	.....	.....
Union.....	2.71	2.35	1.07	3.54	2.69	4.62	5.60	2.02	2.94	2.22	0.66	3.38	33.81
Upper Tract.....	4.66	2.46	0.27	2.37	1.79	8.36	3.08	1.18	1.38	1.72	0.85	1.03	29.13
Valley Fork.....	3.90	2.64	0.05	.....	.....	6.97	4.65	2.06	4.63	1.19	.....	1.15	.....
Webster Springs.....	5.66	3.57	1.33	.....	5.73	8.58	4.62	2.87	5.67	.....	.....	.....	.....
Wellsburg.....	6.69	3.42	0.30	1.98	3.69	2.58	2.63	2.52	4.04	1.91	2.23	2.37	34.36
Weston.....	6.78	3.18	0.96	.....	.....	4.21	3.06	1.93	5.07	1.80	2.24	2.50	.....
Wheeling.....	5.86	3.77	0.24	2.65	3.04	2.27	4.86	1.65	3.90	1.78	1.03	2.78	33.83
Williamson.....	4.42	2.98	1.52	2.62	5.12	5.56	6.58	1.78	1.84	1.60	2.40	3.26	39.58
<i>Wisconsin.</i>													
Antigo.....	0.56	0.90	0.20	.....	.....	0.34	2.43	3.81	2.85	3.12	0.44	0.84	.....
Appleton.....	1.23	0.88	0.33	3.40	2.31	0.78	0.88	4.10	6.12	1.14	2.44	0.81	24.42
Ashland.....	0.96	1.11	T.	1.78	0.51	3.95	1.87	3.39	1.09	0.85	0.82	1.18	18.59
Barron.....	1.19	0.55	T.	0.90	2.17	0.74	2.21	1.80	2.07	1.54	1.40	0.75	15.32
Bayfield.....	.....	.....	.....	.....	.....	.....	1.81	1.44	3.81	.....	.....	.....	.....
Beloit.....	1.97	0.53	T.	3.64	3.84	2.03	1.22	4.48	1.41	0.93	2.00	0.95	23.00
Big St. Germain Dam.....	0.83	0.83	0.37	1.41	2.91	0.24	2.39	3.84	2.78	1.73	1.71	0.83	19.87
Brookhead.....	2.96	0.85	T.	4.07	2.79	1.72	3.80	1.95	0.77	1.59	0.78	0.78	22.85
Burnett.....	1.86	0.61	0.02	3.48	1.95	0.63	1.76	3.84	3.11	1.05	0.27	0.47	20.65
Cecil.....	1.05	0.78	0.26	4.47	1.31	0.85	2.75	4.53	5.27	1.65	1.14	0.60	24.66
Chilton.....	2.29	1.21	0.14	4.83	1.54	1.53	1.77	3.46	4.26	0.96	.....	.....	.....
Crandon.....	0.61	1.55	0.25	2.96	0.86	0.39	0.58	2.63	2.30	.....	.....	.....	.....
Darlington.....	.....	.....	.....	.....	.....	0.60	0.80	3.45	4.10	0.70	.....	.....	.....
Deerskin Dam.....	.....	0.99	0.18	1.95	2.39	0.26	2.24	3.09	2.37	1.84	0.85	0.56	.....
Delavan.....	1.19	0.41	0.12	3.24	4.07	1.24	0.92	4.17	1.62	1.27	1.96	0.39	20.60
Dodgeville.....	3.03	1.13	.....	.....	.....	.....	.....	.....	.....	.....	1.38	0.59	.....
Downing.....	2.00	0.40	T.	0.80	2.60	0.65	3.09	1.53	2.71	0.22	0.75	1.20	16.04
Eau Claire.....	1.08	0.32	0.01	1.29	3.08	0.59	2.47	2.89	2.18	1.36	0.69	0.84	16.71
Florence.....	0.87	2.49	0.17	4.04	0.97	1.17	2.45	2.75	1.78	2.86	0.91	0.54	22.00
Fon du Lac.....	1.57	0.86	0.20	4.62	1.26	0.86	1.82	4.22	1.33	0.64	2.33	0.74	20.75
Grand Rapids.....	1.30	0.95	T.	4.14	1.03	0.65	1.76	4.08	3.45	1.59	0.46	1.00	21.91
Grand River Locks.....	1.22	0.66	0.02	4.22	2.38	0.83	0.67	4.18	4.78	0.87	2.15	0.36	22.34
Grantsburg.....	1.60	1.10	0.10	0.75	0.93	1.85	4.05	2.81	2.12	0.55	0.72	1.50	18.08
Green Bay.....	1.02	1.07	0.19	4.90	1.87	0.94	2.02	6.08	6.24	1.41	2.65	0.75	28.14
Hancock.....	1.40	0.90	0.03	4.67	1.21	0.66	1.20	3.46	5.59	1.22	1.10	0.80	22.24
Hatfield.....	0.72	0.45	T.	3.85	2.20	0.50	2.03	3.66	2.41	0.90	0.96	0.99	19.07
Hayward.....	0.75	0.90	0.35	1.10	3.20	1.04	3.12	2.49	2.68	0.90	0.50	1.00	17.93
Hillsboro.....	1.50	1.10	T.	4.69	1.55	0.34	1.65	3.12	5.88	0.85	0.80	1.15	22.63
Iron River.....	0.65	0.70	0.23	1.33	2.08	1.90	4.25	2.08	3.43	0.84	0.30	0.40	18.19
Kewaunee.....	1.54	1.55	0.39	4.59	1.57	1.45	1.81	4.65	5.72	1.37	3.15	1.96	30.15
Koehnack.....	1.20	1.00	0.35	4.23	1.94	0.91	2.26	3.30	2.83	3.43	2.80	0.85	24.50
Lac du Flambeau.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
La Crosse.....	1.38	0.61	0.03	2.23	1.63	0.37	1.63	4.35	2.77	1.96	.....	1.70	16.77</

PRECIPITATION, 1910.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Wisconsin—Continued.													
Menomonee Falls.....	2.26	0.82	0.08	4.47	3.95	2.06	2.00	3.43	2.28	1.62	3.46	1.13	27.50
Merrill.....	0.07	0.43	0.22	3.90	2.07	0.56	1.65	3.47	.....	.....	.....	.....	.....
Milwaukee.....	2.71	0.58	0.05	3.48	2.64	1.01	2.84	2.75	1.71	1.24	1.63	0.46	21.10
Minocqua.....	0.60	0.65	0.15	1.35	3.49	0.33	2.45	2.84	2.27	1.07	0.98	0.64	16.92
Mondovi.....	0.95	0.15	0.01	1.10	3.00	0.31	1.99	4.34	1.95	0.83	0.57	0.36	15.56
Mount Horeb.....	1.63	1.01	0.10	5.89	3.67	1.10	0.91	6.45	2.38	0.79	1.35	0.85	26.20
Muscola.....	2.31	1.34	0.12	4.92	2.30	1.24	1.04	6.25	3.84	1.22	1.52	1.29	27.39
Neillsville.....	0.98	0.50	T.	4.10	1.89	0.51	2.76	5.26	2.57	1.35	0.90	0.65	21.47
New London.....	1.16	0.84	0.12	5.89	1.63	1.16	0.78	2.78	4.83	1.30	2.34	0.82	23.65
New Richmond.....	1.30	0.73	0.08	1.41	1.75	0.30	3.88	0.86	1.49	1.03	1.19	1.21	15.23
Oconto.....	0.65	2.25	0.16	3.79	1.93	1.47	1.72	5.98	4.98	2.37	1.25	1.60	28.15
Osceola.....	0.75	0.63	0.13	0.69	1.64	0.90	1.77	1.05	1.93	0.96	0.37	0.39	11.21
Oshkosh.....	1.25	0.72	T.	4.04	1.49	1.40	0.70	3.31	6.00	0.74	2.02	0.72	22.39
Park Falls.....	1.10	.....	.....	2.51	0.67	.....	2.79	3.14	2.53	1.23	0.39	0.13	.....
Pine River.....	1.17	0.50	0.01	3.90	1.16	1.21	0.84	1.63	6.63	1.02	2.10	0.63	20.80
Plum Island.....	0.60	0.71	0.30	4.85	1.95	0.86	1.09	7.76	3.85	3.55	2.12	1.03	28.67
Plymouth.....	1.16	0.60	0.06	4.61	1.19	1.16	0.98	4.02	2.72	0.85	1.99	0.36	19.70
Portage.....	0.87	0.66	0.05	5.01	2.73	0.88	1.04	3.98	4.88	1.05	1.55	0.33	23.08
Fort Edwards.....	2.75	0.80	0.05	3.22	2.08	1.06	1.02	3.03	2.24	0.87	2.15	1.15	20.37
Fort Washington.....	1.71	0.81	0.02	3.34	3.06	3.02	0.52	2.10	4.54	0.82	0.46	0.34	20.74
Prairie du Chien.....	0.96	0.77	0.42	1.87	2.77	0.51	3.29	3.03	2.21	1.32	1.54	.....	.....
Prentice.....	1.61	0.36	0.72	2.66	3.18	0.90	0.45	2.24	1.47	2.13	1.77	0.26	17.75
Racine.....	0.48	0.54	0.38	2.82	2.46	0.53	1.44	3.40	2.49	1.99	1.11	0.52	18.16
Rhinelander.....	.....	.....	.....	.....	.....	.....	.....	5.95	0.97	2.07	.....	.....	.....
Ripon.....	1.85	0.80	0.10	4.22	.....	.....	2.37	.....	.....	.....	.....	.....	.....
Sauk City.....	2.40	0.70	0.10	3.76	1.59	1.83	1.13	4.93	3.41	1.05	2.30	1.10	24.30
Sheboygan.....	2.63	0.56	0.13	5.16	3.70	1.89	1.16	3.90	4.96	0.89	0.76	0.46	26.20
Shullsburg.....	1.49	0.79	0.10	1.10	2.09	1.20	2.20	2.20	2.80	1.15	.....	.....	.....
Solon Springs.....	0.58	0.75	T.	0.82	2.44	1.25	1.02	1.95	2.56	0.87	0.39	0.73	13.36
Spooner.....	1.27	0.19	0.03	1.53	3.33	0.34	2.71	4.14	2.66	1.60	0.55	0.77	19.17
Stanley.....	1.57	1.11	0.06	4.82	1.37	1.11	0.94	4.28	4.61	1.60	0.82	1.50	23.79
Stevens Point.....	1.50	1.90	0.19	5.09	2.40	1.37	2.14	7.01	4.54	2.84	3.50	0.57	33.05
Sturgeon Bay.....	0.68	1.04	0.14	2.36	2.86	0.39	2.49	2.50	2.42	1.83	0.93	0.54	18.18
Sugar Camp Dam.....	0.31	0.36	0.34	1.23	1.06	0.33	3.41	1.87	4.66	0.80	0.78	0.52	15.67
Superior.....	0.71	0.92	0.21	2.26	2.62	0.27	2.18	2.89	2.62	1.89	1.10	0.60	18.27
Twin Lakes Dam.....	1.32	0.55	T.	5.31	2.14	0.54	1.60	6.09	4.99	1.71	1.35	1.64	27.24
Valley Junction.....	1.10	0.68	T.	2.90	1.83	0.25	1.98	4.10	5.03	0.97	0.44	0.83	20.11
Viroqua.....	1.00	1.90	0.62	2.36	2.10	T.	1.34	.....	1.46	2.31	0.89	1.57	.....
Vudessare.....	2.42	0.89	0.24	3.97	2.87	1.83	1.24	4.94	2.26	1.00	3.15	1.05	25.86
Watertown.....	2.37	0.75	0.14	3.91	3.25	1.68	1.44	2.80	2.25	1.13	2.37	0.84	23.43
Waukesha.....	0.94	0.75	0.10	4.73	1.18	0.89	0.97	2.66	6.04	1.18	1.81	0.80	22.18
Wausau.....	0.75	0.50	0.07	3.88	1.54	0.94	1.92	5.39	3.82	2.47	1.41	0.98	23.67
Weyerhaeuser.....	0.97	0.78	0.18	1.14	2.81	1.91	3.83	2.44	2.69	1.26	1.03	0.95	19.99
Whitehall.....	0.90	0.23	0.05	1.19	.....	0.20	0.90	3.40	2.86	0.50	0.30	1.40	.....
Wyoming.													
Afton.....	0.90	2.15	1.44	1.11	1.29	0.29	1.06	0.60	1.04	1.91	0.82	0.93	13.54
Alta.....	1.84	1.43	1.14	1.49	2.54	0.20	0.71	0.12	0.61	2.32	2.03	2.11	16.53
Arapahoe.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T.	0.05	.....
Barnum.....	0.75	0.60	0.37	2.10	1.55	0.02	0.84	T.	0.63	1.50	0.67	0.52	9.55
Basin.....	0.23	T.	0.11	0.17	1.37	0.73	.....	.....	.....	.....	.....	.....	.....
Battle Mountain.....	.....	.....	0.68	0.69	1.44	1.08	0.80	.....	2.96	.....	.....	.....	.....
Bedford.....	1.17	2.81	1.53	0.37	1.04	0.04	0.92	0.44	1.20	1.58	.....	1.38	.....
Bennett.....	.....	.....	.....	.....	.....	1.58	1.08	0.55	1.90	3.72	0.07	0.43	.....
Big Creek Station.....	.....	0.35	0.41	0.55	2.02	0.71	0.90	.....	.....	.....	.....	.....	.....
Border.....	0.66	1.43	0.29	0.23	T.	0.00	0.18	0.15	0.66	1.25	1.01	0.32	6.18
Burns.....	0.10	0.25	1.25	1.00	2.82	1.10	0.45	0.70	.....	.....	.....	.....	.....
Casper.....	0.25	0.02	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cheyenne.....	0.29	0.31	1.45	1.14	2.34	0.68	1.32	0.82	1.80	1.04	0.28	0.69	12.05
Cheyenne Experiment Farm.....	0.10	0.13	1.58	1.16	2.60	0.56	2.13	0.79	1.69	1.11	0.05	0.89	12.79
Chugwater.....	0.30	.....	0.60	0.80	2.36	1.66	0.61	0.05	1.71	2.20	0.39	0.60	.....
Clark.....	0.42	0.51	0.41	1.18	2.67	0.79	0.81	0.22	0.89	0.23	0.81	T.	8.94
Cody.....	0.30	0.37	0.19	0.50	0.48	T.	0.46	.....	.....	.....	.....	.....	.....
Cokeville.....	0.38	0.88	0.72	0.65	0.26	T.	0.95	0.18	0.74	1.60	1.10	0.49	7.95
Crazy Creek.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.37	1.05	1.09	.....
Daniel.....	0.40	1.00	1.90	0.10	0.75	0.15	0.33	0.10	0.60	0.42	0.80	0.50	7.05
Dome Lake.....	0.90	0.30	0.60	3.10	3.81	0.33	0.16	0.52	.....	.....	3.20	0.50	.....
Douglas.....	0.69	0.52	.....	.....	.....	.....	.....	.....	0.80	1.20	0.21	0.45	.....
Dubois.....	1.25	0.05	0.18	0.54	1.14	0.55	0.53	0.08	0.73	0.37	0.05	T.	5.47
Baton's Ranch.....	1.50	1.20	0.40	1.70	3.62	0.83	0.79	0.03	1.77	1.76	0.53	0.62	14.77
Echeta.....	0.20	0.40	0.21	0.90	1.99	0.65	0.90	0.60	3.00	1.40	0.48	0.57	11.60
Eden.....	0.12	0.15	0.49	0.22	0.07	0.16	0.82	0.23	0.36	1.02	.....	.....	.....
Elk Mountain.....	1.26	1.90	0.34	0.93	2.05	1.70	2.28	1.74	1.84	1.61	0.11	0.93	17.78
Encampment.....	0.60	0.04	0.35	0.31	2.05	0.42	1.12	0.21	1.14	1.29	0.15	0.30	7.98
Ervay.....	0.50	0.50	0.42	1.12	2.63	0.70	0.57	0.32	2.16	2.36	0.06	0.27	11.61
Evanston.....	0.76	1.33	0.72	0.26	0.33	0.30	1.35	0.68	0.53	1.24	0.30	1.35	9.15
Fort Laramie.....	0.28	0.14	0.14	0.58	1.08	0.35	1.11	0.53	1.39	0.59	T.	0.22	6.41
Foxpark.....	0.64	0.62	.....	.....	.....	0.48	1.97	0.51	3.02	0.79	.....	.....	.....
Gillette.....	0.50	0.50	0.10	1.49	1.94	0.81	1.43	0.51	1.88	0.77	0.30	0.47	10.70
Granite Canon.....	0.10	0.49	0.60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Green River.....	0.12	0.30	0.04	0.10	.....	0.01	0.35	0.74	0.13	0.79	0.06	0.13	.....
Hunters Station.....	0.47	.....	0.32	1.56	3.22	1.09	1.91	0.39	1.20	1.27	1.07	0.42	.....
Jireh.....	0.45	0.45	1.13	0.65	2.54	0.76	0.90	1.35	1.71	1.89	0.36	1.03	18.16
Kirtley.....	0.78	0.25	0.47	0.20	0.90	1.01	2.20	0.20	1.27	0.78	0.39	0.42	8.85
Kirwin.....	2.65	.....	.....	.....	2.35	0.80	1.50	0.60	1.08	2.60	.....	.....	.....
Knowles.....	0.74	0.66	1.03	2.57	1.90	1.66	0.66	1.85	4.61	2.47	0.75	0.61	19.79
La Grange.....	.....	.....	.....	.....	1.65	0.60	1.52	1.00	3.28	0.82	0.18	0.79	.....
Lander.....	2.06	0.39	0.50	1.30	1.91</								

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

MONTHLY AND ANNUAL PRECIPITATION (IN INCHES AND HUNDREDTHS) FOR 1910—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
<i>Wyoming—Continued.</i>													
Moore.....		0.29	0.03	0.86	1.92	0.91	2.38	0.20	1.75	1.05	6.51	0.57	
Newcastle.....	1.85	0.70	0.65	0.75	2.77	0.70	1.24	0.20	0.48	0.20	0.12	0.60	10.26
Pathfinder.....	0.32	0.15	0.33	1.41	1.30	1.71	1.33	T.	0.27	2.87	0.21	0.09	9.99
Phillips.....	0.25	0.10	0.80	0.40	2.36	0.58	1.33						
Pinedale.....	0.27	0.46	0.26	0.02	0.50	0.03	0.01		0.40	0.03	0.75	0.11	
Powell.....	0.03	0.04	0.05	0.22	1.03	0.22	0.64	0.28	0.75	0.30	0.55	0.00	4.11
Rambler.....	5.74	7.26	1.60	1.92	1.93	1.02	2.18						
Rawlins.....	0.18	0.18	0.16	0.41	1.17	0.45	1.03	0.22	1.34	1.12	0.11	0.44	6.81
Riverton.....				1.33									
Saratoga.....	0.36	0.21	0.10	1.20	1.16	0.73	0.76	0.22	1.42		0.20	0.33	
Sheridan (Weather Bu.).....	0.31	0.23	0.36	1.19	1.93	0.43	0.66	0.42	1.79	1.64	0.84	0.74	10.54
Sheridan (Brundage).....	0.60	0.20	T.	1.22	1.95	1.20	0.74	0.20	1.55		1.05	0.40	
Shoshone Dam.....	0.63	0.35	T.	T.	4.13	0.09	2.17	T.	0.45	0.20	1.18	T.	9.20
Soldiers Home.....	0.40	0.15	0.08	1.45	2.71	1.78	1.07	0.39	1.70	1.40	1.28	0.38	12.79
South Pass City.....	1.31	0.67	0.99	0.41	1.40	0.39	1.25	0.11	0.93	0.28	1.19	0.94	9.88
Thermopolis.....	0.32	0.18	0.50	0.63	2.48	0.40	0.74	0.06	1.04	1.10	0.19	T.	8.05
Upton.....			0.25		3.52	2.45	3.59		3.31	2.04	0.30		
Valley.....	1.55	0.24	0.04	0.44	2.19	0.21	1.05	0.12	0.90	0.85	0.09	0.00	7.68
Verona.....			T.	0.84	2.30	0.37	0.56	0.71	2.18	2.07	1.07	0.39	
Wiant's Ranch.....				1.08	2.64	1.25	1.02	0.66	2.39	2.50	0.06	1.37	
Wiley.....	0.30	0.65	0.45	0.85	4.45	0.38	0.97				0.05	0.00	
Wyncote.....	0.10	T.	0.63	0.77	1.65	0.36	1.15	0.74	1.97	0.58	0.00	0.21	8.16
Yellowstone Park.....	1.90	1.61	0.82	1.19	2.34	0.61	1.72	0.52	0.78	1.49	1.53	0.88	15.39
1. Fountain Hotel.....	4.19	2.56	0.91	0.74	3.22	0.33	0.90	0.18	1.44	1.88	2.00	0.41	18.76
2. Gallatin River.....											2.05	1.26	
3. Grand Canyon.....	3.07		1.12	1.66	3.02	0.65	1.51	0.59	1.20	2.03	3.61	1.06	
4. Lake Yellowstone.....	3.10	2.51	1.19	1.71	3.58	0.43	2.04	0.66	1.06	1.63	1.67	1.09	20.67
5. Norris.....	3.51	1.03	0.50	0.77	2.77	0.19	2.06	0.20	0.08	1.18	2.95	1.50	17.94
6. Riverside.....	2.63	2.40	0.46	1.15	2.63	0.40	0.74	0.19	0.89	0.20	1.47	1.26	14.38
7. Snake River.....	5.40	3.90	1.30	2.50	2.60	0.10	1.40	0.10	0.90	1.10	4.60	3.20	27.30
8. Fairview Dome.....	1.90	1.80	0.93	0.98	4.33	0.61	1.70	0.75	0.60	1.14	1.40	1.10	17.24
9. Sylvan Pass.....		2.67	0.80	1.70	1.52	0.50	1.20	0.41	1.07	1.39	2.40	1.96	
10. Thumb.....	4.83	7.21	1.05	1.85	2.10	0.18	0.49	0.33	1.12	1.82	3.27	2.59	26.84
11. Tower Falls.....	2.29	3.33	0.06	0.38	3.20	0.53	2.45	1.00	0.34	0.60	1.60	0.11	15.89
12. Upper Basin.....	2.81	1.80	0.45		2.05		0.94	0.19	1.10	0.93	2.75	1.60	
<i>Porto Rico.</i>													
Alfonito.....	4.62	3.66							8.45	8.61	5.34	10.43	
Alto de la Bandera.....	0.84								4.57	9.81	4.03	11.52	81.89
Añasco.....	0.48	0.09	1.87	8.09	12.35	12.40	6.60	10.08	4.57	3.25	2.00	7.88	49.61
Arecibo.....	7.61	2.70	1.85	2.75	2.87	4.90	5.25	5.80	3.25	5.08	4.24	17.03	82.86
Bacupay.....	11.88	2.27	7.48	7.82	1.27	4.75	5.24	4.67	10.43	5.78	4.29	8.98	71.42
Bayamon.....	7.22	2.61	3.32	1.41	6.36	5.12	7.41	10.60	11.07	5.03	2.24	8.98	71.42
Cabo Rojo.....	0.84	0.35	4.33	3.17	4.86	3.51	8.47	6.41	6.95	4.16	1.36	4.15	48.56
Caguas.....	5.65	3.44	2.07	3.13	3.02	2.62	3.04	12.49	10.74	1.71	1.00	9.71	58.62
Canovanas.....	7.07	2.96	1.90	3.40	5.46	5.68	7.52	13.58	14.01	8.38	4.05	10.86	84.87
Cayey.....	5.94	2.82	5.66	1.09	1.11	3.62	4.34	9.03	11.23	3.86	2.12	7.82	57.24
Central Aguirre.....	0.38	1.01	1.45	0.48	1.78	2.39	1.11	5.31	7.57	4.03	3.57	1.68	30.78
Central Ingenio.....	4.80	3.03	2.57	1.83	0.12	3.61	3.23	12.20	20.89	6.41	3.24	6.93	74.96
Cidra.....	8.68	4.94	6.11	3.38	1.57	3.70	4.34	11.06	16.52	6.73	1.99	18.91	88.23
Coloso.....	4.91	0.45	4.78	3.11	5.30	21.50	10.90	6.44	8.62	7.26	1.95	9.00	84.22
Comerio Falls.....	13.79	2.93	5.09	5.30	1.48	2.45	5.17	12.95	18.60	5.55	3.50	12.26	89.07
Corozal.....	13.02	5.26	7.31	5.89	4.12	2.42	5.26	9.12	19.42	5.54	3.10	13.63	94.09
Culebra.....	2.93	0.75	1.00	0.60	2.19	0.63	1.45	5.83	9.03	1.93	5.56	3.91	35.81
Dorado.....	4.10	3.30	0.71	1.84	3.18	5.45	5.35	9.27	6.48	3.00	3.17	7.08	58.93
Fajardo.....	5.28	2.39	5.36	3.09	6.57	1.27		4.87	12.92	4.94	4.63	6.49	
Guanica Central.....	0.75	0.00	1.98	2.04	1.40	0.00	0.72	6.76	3.51	3.40	3.76	1.24	25.56
Guayama.....	0.61	1.25	2.14	0.46	1.90	2.85	1.32	7.06	9.20	1.97	6.22	2.12	37.70
Hacienda Destino.....	0.18	0.46	1.43	0.76	1.26	1.09	0.56	9.40	5.85	4.70	1.41	1.85	28.95
Hacienda Potata.....	0.00	0.12		2.38	0.35	0.45	0.22	10.40	7.05	1.91	2.05	1.34	
Himacao.....	5.30	2.70	2.57	1.99	9.91	5.75	4.16	9.54	25.34	7.90	2.68	7.10	84.94
Isabela.....	5.87	1.52	3.80	1.86	5.96	6.31	3.48	4.89	2.90	2.13	5.50	9.83	54.05
Isolma.....	9.93												
Jayuya.....	9.68	1.49	5.13	5.41	1.96	1.94	11.86	6.55	7.59	6.64	3.65	12.78	74.40
Juana Diaz.....	0.24	1.93	1.40	0.25	4.75						2.19		
Juncos.....	3.65	2.19	2.81	1.24	2.90	5.79	3.48						
La Carmelita (Low Sta.).....	2.51	0.53	5.02	4.67	9.42	8.52	9.62	13.28	14.33	11.16	5.71	12.75	97.52
La Carmelita (High Sta.).....	4.25	1.92	6.84	5.79	9.10	5.71	8.04	12.04	15.07	14.33	5.09	16.18	104.36
Lares.....	6.81	1.55	8.50	5.27	5.09	12.84	9.30	6.15	10.35	8.55	7.44	13.27	95.12
Las Marias.....	3.33	0.24	6.25	6.54	17.55	9.86	10.71	10.06	12.83	13.57	9.22	7.48	107.64
Manati.....	8.55	4.40	5.68	4.45	2.28	1.87	4.24	5.72	7.94	4.77	3.23	11.24	64.37
Maricao.....	2.32	0.32	5.78	8.02	12.04	8.55	11.47	10.55	15.00	10.26	12.25	6.58	103.13
Maurabao.....	3.71	3.54	4.08	1.28	2.67	3.23	3.16	9.61	24.95	3.77	4.76	7.86	72.82
Mayaguez.....	0.78	0.19	2.63	3.96	5.82	12.50	10.38	11.19	7.61	6.50	4.65	3.63	69.84
Naguabo.....	6.47	3.52	5.32	4.17	8.89	3.98	5.14	7.41	29.24	4.80	4.23	10.22	93.19
Ponce.....	0.45	0.31	2.58	2.42	0.18	0.52	0.25	8.78	5.74	2.73	1.13	1.90	27.09
Rio Blanco.....	7.50	5.77	5.74	4.41	7.14	6.41	6.19	11.95	23.24	7.42	5.03	9.74	100.54
Rio Piedras.....	5.06	1.88	3.62	3.32	3.91	8.06	4.15	17.33	11.50	0.87	1.24	8.67	99.61
Sabana Grande.....	0.47	0.64	2.36	4.00	3.81	1.31	4.73	4.70	9.44	5.57	2.63	3.66	43.62
San German.....	0.45	0.42	2.32	6.40	3.34	2.83	6.41	0.29	6.43	5.58	1.20	2.92	44.65
San Juan.....	5.68	3.32	3.46	3.85	4.62	6.64	2.57	9.63	11.64	2.27	1.63	15.40	70.71
San Sebastian.....	7.45	1.60	12.38	7.09		14.91	8.72	8.76	16.71	9.46	5.92	9.69	
San Salvador.....	6.12	0.93	3.31	7.64	4.58	4.48	9.36	5.78	8.19	10.40	7.09	9.24	77.10
Santa Isabel.....	0.21	0.38	0.76	0.12	1.17	0.67	0.44	9.03	4.90	3.79	0.88	1.63	23.98
Vieques.....	2.81	1.37	3.30	1.55	2.23	1.71	1.13	4.43	12.70	2.67	6.24	5.92	46.06
Yauco.....	1.21	0.20	1.38	5.25									

† Partially estimated by observer.

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

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SNOWFALL, 1910-1911.

MONTHLY AND SEASONAL SNOWFALL, 1910-1911.

NOTE.—Leaders under heading of months indicate no snow; under annual, report incomplete; T., a trace; *, no report.
[Inches and tenths.]

State and station.	1910				1911					Annual.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
<i>Alabama.</i>										
Anniston.....			T.	T.	T.					T.
Ashville.....				T.						T.
Auburn.....										0
Bermuda.....					T.					T.
Birmingham.....				T.	0.5	T.				0.5
Decatur.....		T.		T.	T.	T.				T.
Florence.....		T.		0.6	0.2	T.				0.8
Greensboro.....										0
Hamilton.....				T.						T.
Highland Home.....										0.
Mobile.....										0
Montgomery.....				T.						T.
Newbern.....					0.1					0.1
Oneonta.....		T.	T.	T.	1.0	T.				1.0
Union Springs.....					T.					T.
Valley Head.....		T.		2.0	T.	T.				2.0
<i>Alaska.</i>										
Allackaket.....	1.5	8.0	3.9	5.5	7.5	28.0	5.5	(*)	(*)	
Barrow.....	1.0	1.5	1.0	4.0	(*)	(*)	(*)	(*)	(*)	
Beluga.....		7.6	13.0	18.5	(*)	(*)	(*)	(*)	(*)	
Calder.....			4.0	17.0	59.0	36.0	17.0	13.0		146.0
Chickaloon.....		5.0	6.5	9.0	13.0	24.0	18.0	1.5		77.0
Coal Harbor.....			13.0	7.0	9.0	5.0	1.1	0.4		35.5
Copper Center.....		8.8	2.0	5.0	2.0	3.0	2.0			22.8
Cordova.....		T.	3.5	29.0	14.0	48.5	48.0	21.5	1.5	166.0
Dahl.....			0.1	0.1	0.9	10.1	0.7	10.1		22.0
Eagle.....	T.	4.9	3.6	4.3	5.3	(*)	7.1	14.7	T.	
Fort Liscum.....		32.6	19.0	61.5	41.0	84.0	116.0	35.0		389.1
Goldengate Falls.....		(*)	(*)	(*)	17.8	24.0	42.2	(*)	(*)	
Holy Cross Mission.....		0.2	0.2	1.6	24.0	15.0	2.0			43.0
Juneau.....				16.5	63.0	(*)	(*)	(*)	(*)	
Ketchikan.....			3.4	6.5	38.2	12.8	0.9			59.8
Killisnoo.....			1.5	17.0	(*)	(*)	(*)	(*)	(*)	
Klukwan.....		2.2	26.5	19.5	19.8	24.2	15.0	4.5	T.	111.7
Kodiak.....		2.0	2.0	18.5	3.0	8.0	38.0	12.5	3.0	87.0
Loring (Fortmann Hatchery).....			2.5	19.8	100.0	72.0	30.0	13.2		237.5
Nome.....		0.5	10.8	4.8	14.0	16.5	12.8	5.5	T.	64.9
Rampart.....		6.0	3.5	5.0	15.6	24.0	3.5	8.9		66.5
Seward.....		2.0	T.	9.0	14.0	14.0	24.0			63.0
Sitka.....				31.5	17.5	25.0	17.5	17.0		108.5
Sunrise.....		6.1	19.2	26.3	17.2	29.9	33.8	6.3		138.8
<i>Arizona.</i>										
Chin Lee.....			T.	4.2		5.6	T.			9.8
Chlarsons Mill.....			1.0	6.5	1.1	43.0	1.0			52.6
Congress.....						2.6				2.6
Flagstaff (Weather Bu.).....			1.5	11.3	3.0	18.4	T.	0.1	T.	34.3
Flagstaff (Forest Ser.).....			2.2	8.1	1.4	13.4	2.6	T.		27.7
Fort Apache.....				0.8		5.0				5.8
Grand Canyon.....			3.0	14.6	4.0	16.0	0.5			38.1
Holbrook.....				2.0	T.	7.0				9.0
Jerome.....						4.2				4.2
Keams Canyon.....			1.5	7.5		14.5	1.0			24.5
Natural Bridge.....				T.		2.0				2.0
Payson.....				T.	T.	5.0				5.0
Pinto.....			T.	9.0		9.0	T.			18.0
Prescott.....				4.0	T.	3.7				7.7
St. Johns.....				2.2		11.0				13.2
St. Michaels.....			1.0	13.0	1.0	8.5	7.0	T.		30.5
Snowflake.....				5.3		7.0				12.3
Tombstone.....						0.8				0.8
Tuba.....				1.0		6.2				7.2
Willcox.....						T.				T.
Williams.....			1.0	10.0	2.2	9.5	0.5			23.2
Winslow.....				1.5		6.5				8.0

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

MONTHLY AND SEASONAL SNOWFALL, 1910-1911—Continued.

State and station.	1910				1911					Annual.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
<i>Arkansas.</i>										
Amity.....				T.	T.					T.
Batesville.....				1.0	T.	1.0				2.0
Bee Branch.....				0.5	T.	T.				0.5
Bentonville.....				1.2	T.	1.0				2.2
Bergman.....				1.5		1.3				2.8
Black Rock.....				0.5		T.				0.5
Brinkley.....				0.5	0.5					1.0
Camden.....					T.					T.
Clarendon.....				0.1	0.2					0.3
Conway.....				0.2	0.2	2.5				2.9
Corning.....		T.	T.	7.2	0.3	0.4				7.9
Dardanelle.....						1.0				1.0
Dodd City.....				5.0		1.5				6.5
Eldorado.....					0.2					0.2
England.....				T.	1.0	T.				1.0
Eureka Springs.....				0.5		0.7				1.2
Fayetteville.....				0.5		0.2				0.7
Fort Smith.....				T.		3.0				3.0
Fulton.....					1.0					1.0
Hardy.....		T.		8.0	0.2	0.5				8.7
Helena.....				T.	2.0					2.0
Jonesboro.....				2.4	0.5	T.				2.9
Junction.....				T.	T.					T.
Lake Farm.....				T.	0.5					0.5
Lewisville.....					T.					T.
Little Rock.....				T.	0.6	T.	T.			0.6
Lutherville.....						2.0				2.0
Malvern.....				T.	T.					T.
Mammoth Spring.....				6.0		0.1				6.1
Marked Tree.....		T.		1.8	2.4	T.				4.2
Mena.....				T.						T.
Newport.....				1.0	0.3					1.3
Ozark.....						1.0				1.0
Pine Bluff.....				T.	T.					T.
Pocahontas.....				4.5						4.5
Pond.....				1.0		0.1				1.1
Portland.....					0.2					0.2
Prescott.....					T.					T.
Rogers.....				0.3		0.3				0.6
Stuttgart.....				T.	0.2					0.2
Subiaco.....				T.		T.				T.
Texarkana.....					T.					T.
Wiggs.....				T.						T.
Wynne.....				0.9	0.7					1.6
<i>California.</i>										
Abertine.....			13.0	3.3	152.0	65.0	110.0	35.8		379.1
Alturas.....			9.0	0.5	38.5	8.0	3.0	5.0	2.5	66.0
Bartle.....			12.0		130.0	35.0				177.0
Bear Valley (Nevada Co.).....			6.0		209.0	71.0	84.0	16.0	6.0	392.0
Bear Valley Dam.....			2.0	10.0	28.0	46.5	2.0		5.0	93.5
Bishop Creek.....			1.0	34.5	91.0	29.0	88.5	5.0	17.5	266.5
Blue Canyon.....			5.0	6.0	146.0	62.5	91.0	11.5	3.0	325.0
Boca.....		T.		5.5	174.0	30.0	85.0	7.0		301.5
Bunker Hill.....			26.0	9.0	189.0	53.0	99.0	78.0	25.0	479.0
Burney.....			6.0		42.1	12.2	1.0	3.0	T.	64.3
Camptonville.....					55.0	23.0	18.0			96.0
Cedarville.....			2.0	0.5	45.0	13.0	5.5	7.0	2.5	75.5
Chester.....			2.5		152.5	23.0	67.5	12.0	2.0	259.5
Cisco.....		6.0	21.0	1.0	203.0	47.0	115.0	42.0		435.0
Clover Valley.....			4.0	7.0	102.0	4.0	27.0			144.0
Cuyamaca.....			2.0	1.5		15.0	0.5			19.0
Daunt.....			2.0	T.		T.	T.			2.0
Deer Creek.....			1.0		97.0	33.0	40.0	2.0	1.5	174.5
Dorseys.....			24.0	13.0	266.0	51.0	106.0	26.0	7.0	493.0
Downieville.....			0.5		62.0	8.5	18.0	1.5	T.	90.5
Eagle Lake.....			2.0	1.0	88.5	14.5	33.5	3.5		143.0
Emigrant Gap.....		3.0	4.0		177.0	58.0	69.0	23.0	2.0	336.0
Fish Hatchery.....			18.0	0.5	96.5	34.0	57.0	6.0	3.0	215.0

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<i>California—Continued.</i>										
Fordyce Dam.....		6.0	19.0	10.0	260.0	79.0	124.0	54.0	9.0	561.0
Fredalba.....				7.5	20.0	45.0	6.0		5.0	83.5
Gilta.....			14.0	1.0	91.0	45.0	17.0	13.0	2.0	183.0
Glennville.....			T.	8.0	3.0	22.0	7.0			40.0
Greenville.....			T.	T.	138.0	23.0	39.0	1.0	T.	201.0
Hetch Hetchy.....			1.5		9.2	18.0	8.0	T.	T.	36.7
Holcomb.....			12.0	6.0	5.0	40.0		T.	T.	63.0
Idyllwild.....				1.1		19.0				20.1
Inskip.....			2.0		142.0	51.0	87.0	16.5	3.5	302.0
Johnsville.....			7.5		150.0	56.0	46.0	34.0		293.5
Lake Eleanor.....			7.0	T.	65.0	53.0	72.0	10.0	3.0	210.0
Letter Box.....			12.5	T.	237.0	78.0	108.0	(*)	9.0	
Long Valley.....			T.	4.0	60.2	5.4	15.5	1.5	2.0	88.6
McCloud.....			13.8		68.3	20.5	24.0	T.	1.0	127.6
Madeline.....			4.0	6.5	50.5	7.5	10.0	10.0		88.5
Magalia.....				10.0	10.0	1.5	1.0			12.5
Mineral.....			5.0	1.5	125.0	36.0	52.0	11.0		230.5
North Bloomfield.....			(*)	(*)	(*)	(*)	15.0			
North Fork.....						5.7				5.7
Pilot Creek.....			2.5	T.	115.0	39.5	45.5	0.5	3.0	206.0
Portulaca.....			7.0		32.0	32.0	39.0	0.3	0.3	110.6
Prattsville.....			1.5		138.0	27.0	58.0	1.8		226.3
Quincy.....					114.0	19.5	10.0	T.		143.5
Seven Oaks.....				5.5		24.0			2.0	31.5
Sierra City.....			3.2		149.0	36.0	46.5	8.5		243.2
Sierraville.....			T.	3.0	107.0	24.0	44.0			178.0
Sisson.....			18.0	0.5	96.5	33.0	58.0	6.0	3.0	215.0
Squirrel Inn.....				1.1		34.2	0.6		T.	35.9
Stirling City.....			T.		80.5	21.0	26.0	1.0		128.5
Summerdale.....			5.0		57.0	(*)	(*)	(*)	5.0	
Summit (Placer Co.).....		3.0	30.0	33.0	283.0	53.0	99.0	47.0	15.0	563.0
Table Rock.....			10.0	3.0	152.0	50.0	85.0	32.0		332.0
Tamarack.....			34.0	62.0	400.0	136.0	73.0	51.0	11.0	767.0
Towl.....					73.0	24.0	29.0		2.0	128.0
Truckee.....			3.0	4.5	157.0	53.0	84.0	11.0	T.	312.5
Weaverville.....			2.0		21.0	2.0	(*)	(*)	(*)	
Weitchpec.....			T.		36.0	16.9	1.0	5.0	T.	58.9
West Branch.....			T.		75.2	29.5	22.3	T.	T.	127.0
West Point.....					12.0	15.0				27.0
Yosemite.....		0.5			9.8	20.3	29.0			59.6
<i>Colorado.</i>										
Akron.....		0.5	1.5	1.0	5.0	5.5	1.0	2.0		16.5
Albion Lake.....	(*)	(*)	(*)	(*)	58.5	12.0	76.0	79.0	17.0	
Alma.....		6.0	4.0	12.0	13.5	19.0	6.0	24.0	(*)	
Arriba (near).....		T.	1.7	1.0	3.8	11.7	T.	T.		18.2
Ashcroft.....		12.0	19.0	20.5	30.5	20.5	35.0	36.5	9.0	183.0
Auldhurst.....		9.0	5.5	10.5	3.5	16.2	15.0	6.5	3.5	69.7
Blaine.....			T.	T.	1.0	16.0	T.			17.0
Blanca.....		1.5	3.4	5.7	1.2	14.0	T.	T.	1.0	26.8
Boulder.....		T.	0.5	4.5	11.5	27.1	T.	12.0		55.6
Breckenridge.....	T.	8.0	9.0	17.6	22.0	9.1	10.9	8.8	T.	85.4
Buens Vista.....		T.	4.5	12.0	1.5	29.5	24.5	T.		72.0
Buford.....	(*)	(*)	(*)	(*)	15.0	23.0	6.5	T.		
Burlington.....			0.5	1.0	3.0	7.0				11.5
Calhan.....	T.	T.	5.5	10.0	2.0	15.5	2.5	3.0	T.	38.4
Canon City.....		1.5	9.0	1.0	T.	22.0	0.5			34.0
Cascade.....		6.0	22.5	26.4	53.0	96.5	(*)	10.0		
Cassells.....		3.1	5.0	11.0	5.5	18.9	4.7	3.8		52.0
Castle Rock.....		(*)	(*)	10.0	4.0	11.0	1.5	3.0		
Cheesman.....		4.0	2.0	13.0	3.8	13.0	3.0	7.0	T.	45.8
Cheyenne Wells.....			4.0	T.	10.0	10.5	T.			24.5
Chromo.....			8.0	14.5	3.5	44.0	2.0	(*)		
Cochetopa.....		7.0	1.8	5.6	7.0	11.5	6.4	6.7		46.0
Collbran.....			2.5	22.0	12.5	24.5	3.5			65.0
Colorado Springs.....		T.	2.6	2.6	T.	18.5	1.0	2.6		27.3
Columbine.....		9.0	13.2	36.2	36.5	28.2	16.0	T.		139.1
Columbine Ranch.....		T.	11.7	13.1	22.6	27.7	14.4	2.0		91.5
Cope.....			2.1	2.8	9.0	8.3				22.2

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<i>Colorado—Continued.</i>										
Corona.....		68.0	34.0	49.5	42.0	37.0	48.5	39.5	16.5	335.0
Crawford (near).....		1.0	4.0	14.5	1.0	13.5	4.0	T.	T.	38.0
Crested Butte.....		8.8	16.6	25.0	57.0	11.0	25.5	21.0		164.9
Cripple Creek.....		9.0	7.8	15.0	T.	14.0	19.0	13.0	2.0	79.8
Cuchara Camps.....		19.0	6.0	6.5	3.0	24.2	2.0	9.0	8.0	77.7
Cumbres.....		17.0	23.5	39.8	50.8	61.0	23.0	7.0	1.5	223.6
Delta.....		T.		13.8	1.0	3.6	T.	T.		18.4
Denver.....		0.4	1.3	9.4	1.7	10.2	0.4	8.1		31.5
Dillon.....	1.0		7.5	13.5	26.0	1.5	15.0	10.0	4.0	78.5
Durango.....		3.4	4.6	10.7	5.2	57.6	3.7	T.		85.2
Edgewater.....		(*)	1.1	10.5	1.2	10.0	T.	T.		
Estes Park Fish Hatchery.....		3.0	5.0	4.5	7.5	10.0	10.0	19.0		59.0
Eureka.....		8.0	12.0	22.0	35.0	42.0	33.0	23.0		175.0
Fairview.....		36.0	17.0	14.2	7.4	34.8	51.6	28.0	8.0	197.0
Fort Collins.....			1.8	4.2	4.7	25.7	T.	1.0		37.4
Fort Morgan.....				2.0	3.2	2.1				7.3
Frances.....		13.0	5.5	18.0	(*)	(*)	16.0	16.0		
Fraser.....	0.5	6.5	4.5	19.0	17.0	6.5	13.0	20.4	2.0	89.4
Fremont Experiment Station.....		2.4	6.4	11.9	1.2	24.7	20.8	21.7	0.5	89.6
Frys Ranch.....		1.0	3.5	9.0	17.0	10.0	9.0	15.5	0.2	65.2
Garfield.....		20.0	8.0	24.0	14.5	36.3	25.0	22.0	1.0	150.8
Garnett.....		2.0	3.5		T.	9.5				15.0
Georgetown.....		5.0	7.3	11.5	10.2	11.9	7.8	20.5	T.	74.2
Gladstone.....		T.	13.8	43.4	74.8	66.6	76.1	22.4	2.2	299.3
Glenwood Springs (near).....				7.0	15.0	4.4				26.4
Grand Junction.....				8.6	0.5	11.1	T.	T.		20.2
Grand Lake.....		T.	1.5	25.4	20.5	6.0	9.0	27.5	T.	89.9
Grand Valley.....				5.0	0.2	14.0				19.2
Greeley.....			1.0	5.0	2.7	12.5		1.0		22.2
Grover.....		T.	0.3	4.1	6.5	5.4	T.	T.	1.0	17.3
Gunnison.....		2.5		17.5	15.0	9.5	12.0	(*)	(*)	
Hampse.....		T.	1.3	0.5	1.5	14.7	0.2	T.		18.2
Hartsel.....		0.4	8.5	4.2	2.5	12.0	7.0	1.0		35.6
Hawthorne.....		9.0	T.	6.5	10.5	26.0	2.0	10.5		64.5
Hermit.....		16.0	7.0	11.0	21.3	48.7	22.3	11.8	T.	138.1
Hermit Lake.....		24.0	15.0	35.0	34.0	78.0	60.0	48.0	11.0	305.0
Hoehne.....		T.	T.	1.0	3.0	13.0	0.5	4.0		21.5
Holly.....			0.8		0.5	(*)				
Holyoke (near).....			0.5		3.5	1.5	0.5	5.5		11.5
Horsefly.....		7.2	13.0	35.5	17.0	31.0	24.0	4.0	T.	131.7
Idaho Springs.....		4.5	3.0	3.0	6.0	12.5	T.	8.5		37.5
Ironton.....	T.	14.5	11.8	34.4	37.1	38.7	30.8	9.0	5.2	181.5
La Junta.....			(*)			6.5	T.	(*)		
Lake City.....		5.7	6.7	9.9	11.0	19.4	16.0	13.9	1.9	84.5
Lake Moraine.....	0.5	10.8	12.8	19.6	3.8	28.8	19.8	40.5	5.5	142.1
Lamar.....			1.0	T.	T.	11.2				12.2
La Porte.....		(*)	2.0	3.5	4.0	36.3	T.	(*)		
Las Animas.....						22.0				22.0
La Veta Pass.....		24.5	8.2	14.7	2.1	41.1	7.4	14.2	0.5	112.7
Lay.....			6.0	7.0	21.0	37.5	7.0	T.	T.	78.5
Leadville.....	0.5	4.3	7.3	20.7	23.6	12.1	17.8	23.7	4.2	114.2
Le Roy (near).....		T.	3.0	4.3	4.3	3.7	1.5	4.7		21.5
Limon (near).....			T.	T.	T.	11.0	T.	T.		11.0
Longmont.....	(*)	(*)	(*)	(*)	3.3	18.1		0.9		
Longs Peak (near).....		12.0	3.0	7.0	16.0	13.0	14.0	33.0	3.0	101.0
Madrid.....			1.7	3.0	1.5	17.8	T.			24.0
Manassa.....		1.5	T.	(*)	T.	8.5		1.0	1.0	
Mancoes.....		1.0	1.3	15.0	2.3	22.2	4.5			46.3
Marble.....		5.0	16.0	14.5	24.9	34.5	19.0	9.5	3.0	126.4
Marshall Pass.....	T.	8.5	19.0	25.0	28.0	31.0	28.0	15.0	T.	154.5
Meeker (near).....		T.	5.5	10.0	12.0	11.0	0.5	1.0	3.0	43.0
Montrose.....				13.5	1.5	8.1				23.1
Moraine.....		3.5	2.7	12.0	(*)	14.0	3.0	22.0	T.	
Nast.....		7.2	9.9	16.4	27.7	7.8	22.0	19.1	T.	110.1
North Lake.....		14.5	3.9	13.0	1.0	19.0	8.5	4.0	3.5	67.4
Pagoda.....			(*)	(*)	(*)	42.2	7.0			
Pagosa Springs.....		5.0	8.0	16.5	8.0	55.0	5.0	T.	0.2	97.7
Paonia.....			1.0	17.5	4.0	9.6	4.0	T.		36.1

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<i>Georgia.</i>										
Atlanta.....		T.		T.	0.1	T.				0.1
Augusta.....										0.0
Canton.....		T.			T.	T.				T.
Clayton.....		T.		T.		3.0	T.			3.0
Dahlonega.....		T.		T.	T.	0.5				0.5
Diamond.....				T.	T.	1.5	T.			1.5
Gore.....		T.		2.0	T.	T.				2.0
Lafayette.....		T.		2.0		0.5				2.5
Lost Mountain.....		T.	T.							T.
Macon.....				T.						T.
Rome.....		T.		0.6	T.	T.				0.6
Savannah.....										0.0
Thomasville.....										0.0
<i>Idaho.</i>										
Blackfoot.....			0.5	1.0	11.0	8.1	0.5	T.		21.1
Blackfoot Dam.....			8.5	13.1	21.5	(*)	6.0	9.3	12.5	
Bock's Ranch.....	(*)	(*)	7.8	2.3	11.0	7.5		5.3	(*)	
Bogus Creek.....			7.9	8.5	17.3	15.0	1.5	13.0	1.5	64.7
Boise.....			3.0	0.5	9.7	9.1	0.3	1.0		23.6
Bonner's Terry.....			6.0	4.0	23.5	4.0	2.0	2.0		41.5
Boulder Mine.....			22.2	14.7	32.4	31.8	4.0	11.7	2.0	118.8
Buhl.....	(*)	(*)	4.0		13.0	4.5		1.0		
Caldwell.....			4.0	1.2	11.4	9.6		0.2		26.4
Camas.....		(*)	(*)	(*)	18.0	2.4		16.0	(*)	
Cambridge.....			11.5	2.5	11.0	7.6		T.		32.6
Chesterfield.....			1.0	1.0	8.0	13.0	6.0	9.0	T.	38.0
Culdesac.....			2.0	1.5	14.5			2.0		20.0
Dent.....			3.8	6.0	13.0	(*)	(*)	T.		
Driggs.....		0.2	5.0	14.0	16.0	4.0	4.0	6.0	9.0	58.2
Edie.....			2.0	6.0	20.5	4.0		9.4		41.9
Emmett.....			3.0	0.2	10.0	6.2				19.4
Forney.....		2.5	5.7	7.5	12.0	5.2	0.6	15.0	3.2	51.7
Garden Valley.....			10.5	8.5	12.0	7.4	T.	1.4		39.8
Garnet.....			2.2		17.4	7.3				26.9
Geneva.....			(*)	6.0	12.0	5.5	2.8	5.0	1.0	
Glenns Ferry.....			2.5	T.	17.0	4.5		0.5		24.5
Gooding.....			2.9	T.	17.7	8.3		7.2		36.1
Grace.....			2.5	4.1	2.5	7.6	1.3	3.3	T.	21.3
Grand Forks.....	(*)		18.1	24.7	40.8	25.7		2.0		
Grandview.....		(*)	(*)	T.	4.8	9.3				
Grimes Pass.....			21.9	10.9	28.6	20.2	3.9	12.9	2.9	101.3
Guffey.....			T.	T.	8.5	6.1				14.6
Hailey.....			14.9	7.4	51.8	16.3	6.0	6.5	T.	102.9
Hotspring.....			5.0	T.	(*)	7.0		T.		
Idaho Falls.....			1.5	1.0	29.0	9.0	3.2	1.5		45.2
Indian Valley.....	(*)	(*)	(*)	5.5	10.0	7.3	2.2	0.6		
Irwin.....		T.	(*)	(*)	5.5	5.1	4.5	9.0	4.0	
Kellogg.....			7.5	7.1	20.1	28.6	1.5	5.0		67.8
Kirkham.....		(*)	18.0	5.0	18.7	11.0		2.0		
Kooskia.....				1.0	7.7	6.0	(*)	3.0		
Lakeview.....			8.0	3.0	27.0	21.0	1.0			60.0
Landore.....		0.2	41.2	33.8	49.9	53.3	11.6	24.5	8.0	222.5
Lewiston.....			T.	0.5	0.6	3.4		0.1		4.6
Little Camas.....			19.5	8.3	27.6	16.0	1.8	11.8	(*)	
Long Gulch.....			15.0	5.1	15.2	13.0	1.0	7.4		56.7
Loon Creek.....	(*)	(*)	(*)	3.5	31.8	(*)	11.0	7.7	T.	
Mackay.....			2.0	3.2	(*)	5.0	4.0	(*)		
Meadows.....			32.0	13.0	31.7	(*)	(*)	(*)	(*)	
Mesa.....	(*)	(*)	(*)	11.4	13.6	10.9	0.5	T.		
Milner.....			2.0	1.5	10.0	(*)	T.	T.		
Moscow.....			2.4	5.8	9.3	12.1	(*)	1.5		
Mountainhome.....			5.0	1.0	11.0	11.0	0.2	1.7		29.9
Murtaugh.....			4.5	1.0	3.0	17.0	1.5	2.3		29.3
Nezperce.....			5.0	11.0	(*)	22.0		15.2		
Oakley.....			T.		4.0	7.0				11.0
Orofino.....			4.5	6.2	9.1	19.3		2.0		41.1
Paris.....		T.	4.0	(*)	19.0	22.0	11.4	9.0	T.	
Payette.....			3.0	T.	13.4	3.2	T.	T.		19.6

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	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
<i>Idaho—Continued.</i>										
Pebble.....			3.9	1.5	7.5	10.8	5.8	10.0	0.5	40.0
Pierson.....			14.0	21.0	31.0	12.0	7.0	20.0	T.	105.0
Pine.....	(*)	(*)	22.0	11.5	41.0	13.0	9.2	5.8	(*)	
Pleasant Valley.....			5.0	T.	11.5	8.7		2.5		27.7
Pocatello.....			1.4	3.5	5.2	14.0	1.2	6.4	T.	31.7
Porthill.....			6.6	6.5	16.5	5.5	3.1			38.2
Powers' Ranch.....	(*)	(*)	12.0	7.6	19.8	19.0	0.7	4.6	(*)	
Pyle Creek.....			18.5		13.5	10.6	T.			42.6
Rattlesnake Creek.....	(*)	(*)	9.7	4.2	19.1	10.2	T.	0.6	(*)	
Richfield.....			4.1	0.3	26.3	5.0	2.5	4.0	T.	42.2
Roseworth.....		T.	5.5	1.7	15.0	9.4	0.9	1.1	T.	33.6
Ruby Creek.....	(*)	(*)	14.3	11.8	24.3	22.3		10.0	(*)	
Rupert.....			0.2	T.	12.0	17.1	1.0	4.0	T.	34.3
Salmon.....			18.5	7.4	(*)	4.1	0.2	4.2		
Salmon River Dam.....			5.5	1.3	11.2	10.2	1.0	1.3	1.0	31.5
Sheep Hill.....			18.0	12.7	27.3	20.5	0.5	6.0	0.5	85.5
Shoshone.....			2.7	0.5	15.5	19.3	(*)	5.7		
Silver City.....			10.5	14.7	28.9	22.8	4.5	15.0	5.0	101.4
Soldier Creek.....			30.3	4.5	55.5	21.2	18.7	13.0	(*)	
Springfield.....			1.5	1.5	9.0	7.8	2.3	6.2		28.3
Stone.....		(*)	(*)	1.0	(*)	(*)		1.5		
Sugar.....			6.0	2.5	13.5	7.0	1.0	6.0		36.0
Sunnyside.....			3.5	T.	6.0			T.		9.5
Tripod Mountain.....			16.0	3.6	9.5	11.3	1.1	2.6	T.	44.1
Twin Falls.....			0.2	0.4	11.0	5.6	T.	1.1		18.3
Vernon.....		T.	7.0	11.1	24.5	15.8	2.0	8.5	1.2	70.1
Wendell.....			3.0	T.	13.0	4.0		1.0		21.0
Weston.....			3.0	2.0	9.0	12.0	7.0	6.0		39.0
<i>Illinois.</i>										
Albion.....		0.2		1.0	1.3	5.8	0.8			9.1
Aledo.....		T.	0.5	1.0	4.0	7.2	2.0	4.0		18.7
Alexander.....		T.	T.	0.5	2.0	6.5	T.			9.0
Bloomington.....		T.	T.	1.0	6.0	5.0	T.	2.0		14.0
Cairo.....			T.	4.1	0.4	1.0	1.9			7.4
Carlville.....		0.5		0.5	2.0	8.4	T.			11.4
Charleston.....		0.1	0.1	1.8	3.1	2.1	0.4			7.6
Chicago.....		T.	1.2	9.2	2.2	9.8	4.9	2.4	T.	29.7
Cobden.....				10.0		T.	4.5			14.5
Greenville.....		T.		T.	0.5	8.5	2.5			11.5
Joliet.....		T.	(*)	5.2	3.7	6.7	1.0	2.2	T.	
La Salle.....		0.2	T.	7.3	5.2	7.4	2.2	4.0		26.3
Oregon.....		T.	T.	14.0	10.1	10.2	2.5	6.0		42.8
Ottawa.....		T.	T.	T.	4.0	3.0	T.	2.5		9.5
Palestine.....		0.5		3.0	2.2	5.5	T.			11.2
Peoria.....		T.	T.	1.6	11.3	7.2	0.1	4.0		24.2
Rantoul.....		T.	T.	0.8	4.5	(*)	T.	2.0		
Riley.....		T.	0.2	5.9	4.1	7.8	1.2	2.7	T.	21.9
Springfield.....		T.	T.	0.2	1.9	6.0	T.	T.		8.1
<i>Indiana.</i>										
Butlerville.....		1.5	0.5	10.5	11.0	7.1	2.0	1.4		34.0
Cambridge City.....		T.	T.	8.3	7.0	4.0	T.			19.3
Evansville.....		T.		6.0	1.0	1.0	1.8			9.8
Fort Wayne.....		T.	2.2	6.7	2.2	8.8	2.9	4.2	T.	27.0
Greensburg.....		1.0	0.5	8.0	(*)	(*)	(*)	(*)	(*)	
Howe.....		3.0	6.0	8.0	6.0	6.0	5.0	3.0		37.0
Indianapolis.....		T.	0.1	4.0	6.0	3.0	T.	1.2		14.3
Kokomo.....		T.	T.	1.8	1.0	5.0	3.0	2.7		13.5
Lafayette.....		T.	T.	3.0	4.6	6.0	0.6	1.0		15.2
Laporte.....		1.0	4.0	12.7	5.1	10.5	7.4	3.0	T.	43.7
Marengo.....		T.	T.	12.4	4.3	3.1	T.			19.8
Markle.....		1.0	2.0	10.0	2.0	(*)	(*)	(*)	(*)	
Richmond.....		0.9	T.	6.4	6.2	2.6	0.6	2.4		19.1
Scottsburg.....		0.5	T.	5.5	6.5	2.5	T.			15.0
South Bend.....		15.0	2.5	22.5	2.5	10.5	5.5	3.5	T.	62.0
Terre Haute.....				2.0	6.7	4.0	T.			12.7
Vevay.....		1.0	T.	9.0	14.0	5.0	2.0	T.		3.0

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<i>Iowa.</i>										
Afton.....		T.	T.	2.3	(*)	(*)	1.0	T.		
Albia.....		T.	0.5	2.0	6.0	8.0	1.0	0.5		18.0
Algona.....		2.0	1.5	5.2	14.0	6.0	3.0	8.0	2.0	41.7
Allerton.....		T.	T.	0.2	4.7	6.3	1.5	T.	T.	12.7
Alta.....		1.3	0.5	1.9	6.0	7.0	4.0	6.2	1.5	28.4
Alta (near).....		1.0	0.5	2.2	5.0	6.0	4.1	5.0	1.5	25.3
Alton.....		T.	1.0	0.5	8.0	6.0	T.	6.0	(*)	
Amana.....		T.	0.5	2.1	7.4	9.5	0.4	3.6	T.	23.5
Ames.....		T.	T.	2.7	11.2	1.5	T.	1.5		16.9
Atlantic.....		T.	T.	1.5	3.0	6.0	2.5	T.	T.	13.0
Audubon.....		T.	1.0	2.1	(*)	12.0	0.2	2.1	1.0	
Baxter.....		T.	T.	4.8	10.0	6.0	2.5	2.0	T.	25.3
Bedford.....		T.	T.	2.7	6.0	3.5	6.2	0.4	T.	18.8
Belle Plaine.....			3.5	0.7	7.8	9.5	2.0	3.0	T.	26.5
Belmond.....		T.	1.9	4.1	11.0	5.5	3.7	6.7	1.4	34.3
Bloomfield.....		(*)	(*)	(*)	12.6	8.2	(*)	(*)	(*)	
Bonaparte.....		T.	1.0	1.0	(*)	7.5	T.	1.0	(*)	
Boone.....		T.	T.	3.0	(*)	8.0	T.	T.		
Britt.....		T.	0.9	2.5	8.0	4.0	2.5	6.0	(*)	
Buckingham.....			1.8	(*)	4.5	(*)	(*)	(*)		
Burlington.....		T.	0.5	1.5	13.0	8.8	3.5	0.5		27.8
Carroll.....			1.0	1.0	4.5	6.0	2.0	T.		13.5
Cedar Rapids.....		T.	0.8	2.5	4.5	6.0	0.5	2.5	T.	16.8
Centerville.....		T.	T.	0.5	6.0	5.0	1.5	(*)		
Chariton.....		T.	T.	4.0	5.0	6.0	2.0	T.		17.0
Charles City.....		T.	1.0	7.3	14.7	11.0	1.6	10.2	2.0	47.8
Clarinda.....		T.	T.	3.2	2.8	2.5	7.0	T.		15.5
Clear Lake.....			2.0	3.5	5.5	4.5	4.2	5.0	(*)	
Clinton.....			T.	7.2	5.2	13.0	2.0	(*)		
Columbus Junction.....		T.	0.2	1.2	4.2	8.3	1.0	4.0		18.9
Corning.....		T.	T.	3.0	5.0	4.0	2.5			14.5
Council Bluffs.....		T.		6.8	2.0	4.5	6.2			19.5
Creston.....		T.	T.	1.0	4.0	6.0	2.0	T.		13.0
Cumberland.....			T.	2.0	4.0	6.0	1.0	(*)		
Davenport.....		T.	T.	3.0	5.7	8.7	0.1	6.0		23.5
Decorah.....				7.0	19.0	8.0	3.0	10.0	(*)	
Delaware.....			2.8	6.2	5.0	4.2	1.5	7.5		27.2
Denison.....		T.		1.5	2.1	8.5	3.0	2.2	1.0	18.3
Des Moines.....		T.	0.4	2.6	6.7	7.6	1.2	0.4	T.	18.9
Dubuque.....		0.1	1.7	5.1	6.7	7.7	1.1	5.4	T.	27.8
Earlham.....		T.	T.	2.0	10.5	6.5	1.0	7.0	T.	27.0
Elkader.....		T.	1.0	8.0	8.5	8.0	2.5	11.0	0.5	39.5
Elliott.....		T.		4.0	2.0	2.0	2.0	T.	T.	10.0
Elma.....		T.	2.5	7.3	8.5	4.0	2.5	8.5	4.0	37.3
Estherville.....		T.	1.0	1.0	8.0	4.0	T.	7.0	(*)	
Fairfield.....		T.	0.2	0.9	(*)	9.9	0.6	1.0		
Fayette.....		T.	1.8	7.6	12.2	10.8	2.0	12.5	(*)	
Forest City.....		T.	T.	5.0	12.0	4.0	T.	4.0	1.0	26.0
Fort Dodge.....		T.	T.	2.5	7.5	6.0	1.5	6.5	0.5	24.5
Grand Meadow.....		T.	2.0	7.0	8.0	9.5	3.0	12.0	2.0	43.5
Greenfield.....		T.		1.0	1.5	8.0	T.	T.	T.	10.5
Grinnell.....		T.	2.0	2.4	8.2	9.5	1.2	1.5	T.	24.8
Grundy Center.....		T.		5.6	5.0	10.5	(*)	5.5		
Guthrie Center.....		T.	T.	2.0	9.0	8.5	T.	T.	T.	19.5
Hampton.....		T.	0.5	4.2	9.8	8.5	2.2	11.5		36.7
Harlan.....		T.	T.	3.5	4.0	12.0	1.3	T.	T.	20.8
Humboldt.....		T.	T.	2.0	8.0	8.3	6.3	5.6	(*)	
Independence.....			0.5	3.0	8.5	4.0	T.	2.0	T.	18.0
Indianola.....		T.	0.6	2.0	4.1	9.4	1.0	T.	T.	17.1
Inwood.....		0.5	0.5	1.3	4.0	7.0	1.0	3.5	2.5	20.3
Iowa City.....		T.	T.	3.0	5.0	6.0	1.0	3.0		18.0
Iowa Falls.....		T.	3.1	6.6	13.1	8.0	1.0	10.5	1.5	43.8
Jefferson.....				2.7	7.0	6.0	T.	2.1		17.8
Keokuk.....		T.		0.1	3.5	4.6	0.1			8.3
Keosauqua.....		T.	T.	0.3	7.0	9.0	2.0	1.0		19.3
Knoxville.....		T.	2.0	4.0	5.3	10.5	2.5	2.0	(*)	
Lacona.....			3.0	6.6	9.0	4.0	2.0	(*)		
Lemont.....				1.6	3.5	(*)	2.0	(*)		
Larrabee.....		0.5	0.4	1.4	5.5	5.5	1.0	5.8	2.4	22.5
Le Claire.....		T.	T.	4.9	4.7	4.8	1.8	3.4		19.6

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<i>Iowa—Continued.</i>										
Le Mars.....		T.	T.	0.1	(*)	6.0	T.	7.0	T.
Lenox.....		T.	0.3	1.5	2.9	2.4	1.5	T.	8.6
Leon.....		T.	T.	0.5	1.8	5.5	2.5	T.	T.	10.3
Little Sioux.....				4.2	4.0	6.0	1.5	T.	.....	15.7
Mason City.....			T.	2.2	9.1	4.0	3.0	5.0	T.	23.3
Mount Ayr.....		T.	T.	1.9	3.0	8.3	3.0	T.	.....	16.2
Mount Pleasant.....		T.	1.0	1.0	10.2	10.8	4.3	1.0	.....	28.3
Muscatine.....		T.	T.	1.2	4.2	5.5	0.2	4.0	.....	15.1
New Hampton.....		T.	1.0	3.5	8.5	8.0	1.5	7.5	T.	30.0
Newton.....			2.0	3.0	12.5	10.0	0.2	(*)	(*)	.....
Northwood.....		T.	3.3	7.5	19.0	11.0	1.5	(*)	3.0	.....
Odebolt.....				2.2	4.0	9.0	5.0	4.0	.....	24.2
Olin.....		T.	(*)	3.8	4.0	(*)	.....	4.0	T.	.....
Onawa.....		T.	T.	5.0	5.3	7.5	2.5	2.0	2.0	24.3
Osage.....		T.	3.0	4.7	20.0	6.0	4.0	6.4	T.	44.1
Oskaloosa.....		T.	0.5	2.0	3.8	5.3	1.2	0.8	T.	13.6
Ottumwa.....		T.	T.	1.0	6.5	8.0	1.0	0.5	.....	17.0
Pacific Junction.....		T.	T.	4.8	2.2	(*)	5.0	0.2	.....	.....
Pella.....		T.	0.8	4.5	7.0	8.3	2.0	T.	T.	22.6
Perry.....		T.	.....	2.0	6.0	6.0	1.0	0.5	T.	15.5
Plover.....		T.	T.	1.5	5.0	6.0	3.5	6.0	.....	22.0
Pocahontas.....			0.5	2.4	7.7	7.4	3.8	5.2	.....	27.0
Ridgeway.....		0.2	3.8	4.7	12.6	4.7	3.2	12.3	2.5	44.0
Rock Rapids.....		0.5	0.5	1.0	5.0	1.0	1.0	3.0	.....	12.0
Rockwell City.....		T.	T.	3.0	22.0	(*)	8.0	6.0	2.0	.....
Sac City.....			T.	2.0	6.0	10.0	2.5	4.5	3.0	28.0
St. Charles.....		T.	3.0	2.8	5.7	6.5	0.8	(*)	.....	.....
Sheldon.....		1.0	T.	0.7	17.0	7.0	T.	T.	1.0	26.7
Sibley.....		0.9	0.5	1.0	10.0	5.5	0.3	6.0	T.	24.2
Sigourney.....		T.	0.5	2.5	8.5	11.0	0.2	2.0	T.	24.7
Sioux Center.....			0.5	0.8	6.0	6.0	2.0	6.5	3.0	24.8
Sioux City.....		T.	T.	3.0	7.0	13.2	2.7	4.0	1.0	30.9
Stockport.....		T.	0.5	1.0	11.0	9.0	1.0	1.0	1.0	24.5
Storm Lake.....		T.	T.	3.5	7.7	7.0	T.	6.0	T.	24.2
Thurman.....		T.	T.	4.5	5.0	(*)	3.0	T.	T.	.....
Tipton.....			2.0	5.7	5.1	8.0	T.	3.5	.....	24.3
Toledo.....		T.	3.0	5.0	6.8	9.0	1.0	T.	T.	24.8
Wapello.....			T.	T.	(*)	2.0	2.5	2.0	.....	.....
Washington.....				(*)	(*)	8.4	0.8	2.0	.....	.....
Washita.....		T.	T.	1.0	5.0	10.0	1.0	6.5	.....	23.5
Waterloo.....		T.	2.5	4.9	(*)	12.0	0.8	6.3	T.	.....
Waukeo.....		T.	0.5	2.3	6.6	8.1	0.6	0.2	T.	18.3
Waverly.....				5.5	4.5	9.3	(*)	(*)	.....	.....
Webster City.....		T.	T.	2.0	7.0	9.0	T.	9.0	.....	27.0
West Bend.....		T.	0.6	3.6	11.0	6.0	3.5	7.6	1.0	33.3
Whitten.....		T.	T.	1.0	5.3	12.0	1.0	3.5	T.	22.8
Winterset.....		T.	0.5	2.0	7.0	8.5	0.2	T.	T.	18.2
Woodburn.....		T.	2.6	2.0	3.5	5.5	0.5	T.	T.	14.1
<i>Kansas.</i>										
Burlington.....		(*)	T.	2.5	T.	7.5	T.	.....	.....	.....
Colby.....			T.	0.8	3.0	2.0	T.	(*)	.....	.....
Columbus.....			T.	1.5	T.	2.0	0.4	.....	.....	3.9
Concordia.....		T.	T.	1.0	0.4	1.1	0.6	T.	.....	3.1
Dodge City.....		0.3	T.	0.3	1.4	12.2	T.	.....	.....	14.2
Emporia.....				4.0	T.	9.0	.....	.....	.....	13.0
Frankfort.....			T.	6.5	1.5	3.5	2.1	T.	.....	13.6
Garden City.....		T.	1.0	T.	T.	10.0	T.	.....	.....	11.0
Grenola.....				1.0	T.	4.0	.....	.....	.....	5.0
Horton.....		T.	T.	3.0	0.5	4.5	T.	T.	.....	8.0
Hugoton.....		0.2	0.5	T.	T.	14.5	.....	.....	.....	15.2
Hutchinson.....				T.	T.	5.8	.....	.....	.....	5.8
Independence.....				3.5	T.	3.5	0.3	.....	.....	7.3
Iola.....			T.	2.4	T.	13.0	1.2	.....	.....	16.6
Lakin.....		T.	2.0	T.	T.	13.0	.....	.....	.....	15.0
McPherson.....				T.	T.	8.5	8.5
Manhattan.....				2.0	2.2	7.0	0.5	11.7
Marion.....				2.0	0.5	7.0	T.	9.5
Minneapolis.....			T.	2.8	1.8	7.0	T.	T.	11.6

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<i>Louisiana—Continued.</i>										
Grand Cane.....										0.0
Grand Coteau.....					T.					T.
Hammond.....										0.0
Houma.....										0.0
Jennings.....										0.0
Lafayette.....										0.0
Lake Charles.....										0.0
Lakeside.....										0.0
Lawrence.....										0.0
Leesville.....					0.5					0.5
Liberty Hill.....										0.0
Logansport.....					0.2					0.2
Melville.....					0.3					0.3
Minden.....					0.4					0.4
Monroe.....					T.					T.
Morgan City.....										0.0
Newellton.....										0.0
New Iberia.....										0.0
New Orleans.....										0.0
Opelousas.....										0.0
Pearl River.....										0.0
Plain Dealing.....										0.0
Rayne.....										0.0
Reserve.....					T.					T.
Robeline.....					0.8					0.8
Ruston.....					5.0					5.0
St. Francisville.....										0.0
Schriever.....										0.0
Sheridan.....										0.0
Shreveport.....					0.1					0.1
Simmesport.....					0.4					0.4
Southern University Farm.....										0.0
Sugartown.....										0.0
Tallulah.....					0.8					0.8
Walker.....										0.0
<i>Maine.</i>										
Bar Harbor.....		T.	1.0	9.0	11.0	29.0	18.0	12.5	T.	80.5
Eastport.....			10.3	12.0	17.8	17.1	20.8	19.1	T.	97.1
Farmington.....		1.0	11.0	12.5	15.5	25.5	31.5	5.5	T.	102.5
Gardiner.....			7.0	16.5	10.5	18.0	8.0	7.0		67.0
Lewiston.....		0.5	6.5	13.2	13.5	24.7	16.5	8.0	T.	82.9
Orono.....		T.	4.2	12.5	19.8	24.5	24.0	6.0	T.	91.0
Portland.....			0.6	13.0	11.2	31.6	12.0	8.5	T.	76.9
Rumford Falls.....		0.2	10.1	11.1	12.1	27.4	32.2	5.4	T.	98.5
Winslow.....			4.5	13.5	11.8	11.0	15.5	5.0		61.3
<i>Maryland.</i>										
Annapolis.....		T.	4.0	9.0	3.0	4.5	(*)			
Bachman's Valley.....			5.0	15.0	5.0	9.0	6.0	(*)	(*)	
Baltimore.....			1.0	12.1	4.7	8.9	8.4	T.		35.1
Cambridge.....			T.	6.2	1.5	5.2	8.0	T.		20.9
Cheltenham.....			6.0	13.5	1.0	4.0	7.3			31.8
Cheestertown.....			T.	12.0	5.0	4.0	7.0	T.		28.0
Chewsville.....		T.	5.0	11.6	6.3	8.5	10.0	2.5		43.9
Clear Spring.....		T.	1.0	11.2	5.2	10.4	8.7	3.0		39.5
Coleman.....			12.0	10.0	6.5	8.0	8.5	1.0		46.0
College Park.....			3.0	8.5	5.0	6.2	4.0			26.7
Darlington.....			1.5	14.0	4.5	7.0	10.5	1.0		38.5
Deer Park.....		1.0	18.0	32.0	8.5	12.0	23.2	6.0	T.	100.7
Denton.....			1.5	9.5	3.0	5.5	8.0	T.		27.5
Easton.....			T.	(*)	2.0	4.9	6.0			
Emmitsburg.....			T.	11.0	5.5	9.0	14.0	1.0		40.5
Falleton.....		T.	3.0	9.5	5.5	10.0	12.5	2.0		42.5
Frederick.....		T.	2.6	15.5	3.9	8.5	8.7	1.4		40.6
Frostburg.....		T.	0.5	13.9	0.3	2.3	9.0	8.0	T.	34.0
Grantsville.....		2.0	20.0	27.0	6.5	14.0	21.0	12.0		102.5
Great Falls.....			0.5	13.7	5.5	5.3	7.0	T.		32.0
Green Spring Furnace.....		T.	1.0	11.1	3.8	10.1	8.0	3.4		37.4

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<i>Maryland—Continued.</i>										
Keedysville.....			T.	11.0	4.0	7.5	9.5	1.0		33.0
Lake Montebello.....			1.0	11.5	5.0	8.7	8.8	0.5		35.5
La Plata.....			5.0	(*)	1.5	4.5	6.0	T.		
Laurel.....				15.0	7.0	9.0	10.5	1.0		42.5
Monrovia.....			0.5	11.5	5.1	7.6	6.4	1.2		32.3
Oakland.....		0.2	15.5	19.1	7.3	9.8	21.1	9.5	T.	82.5
Pocomoke City.....				(*)	1.0	2.0	3.0			
Porto Bello.....				(*)	4.0	T.	T.	5.5		
Princess Anne.....		T.	T.	3.0	2.0	0.7	7.0	T.		12.7
Salisbury.....		T.	T.	5.0	T.	1.5	9.5			16.0
State Sanatorium.....		T.	11.2	16.3	6.5	7.5	16.4	4.7	T.	62.6
Solomons.....			2.0	6.0	2.9	1.0	10.0	T.		21.9
Sudlersville.....			1.5	13.5	7.0	8.5	7.5	T.		38.0
Takoma Park.....			2.5	13.0	6.0	8.0	6.0	T.		35.5
Towson.....			6.0	14.4	5.6	8.1	4.4	0.5		39.0
Van Bibber.....			T.	11.9	(*)	(*)	13.5	T.		
Westernport.....		1.0	0.5	9.0	5.5	8.8	10.5	3.5		38.8
Woodstock.....			3.0	10.3	3.5	5.0	6.0	T.		27.8
<i>Massachusetts.</i>										
Amherst.....		T.	4.0	2.5	1.8	10.8	10.5	6.5		36.1
Bedford.....			2.5	9.5	1.0	13.2	8.0	7.5		41.7
Boston.....			1.4	8.2	0.7	19.5	3.1	7.7		40.6
Concord.....			4.0	7.5	1.5	11.0	7.5	9.1		40.6
Fitchburg.....			8.0	5.0	1.7	13.5	9.5	6.0		43.7
Hyannis.....			T.	17.7	5.2	20.5	4.0	8.5		55.9
Jefferson.....			10.0	9.0	2.0	18.2	14.5	10.0		63.7
Nantucket.....			T.	7.3	4.3	19.7	6.8	2.9		41.0
Plymouth.....			T.	10.8	1.0	21.0	3.8	5.0		41.6
Worcester.....			5.5	10.0	0.9	16.9	12.1	9.2	T.	54.6
<i>Michigan.</i>										
Adrian.....		T.	1.0	13.0	5.0	6.5	1.5	(*)		
Allegan.....		T.	11.0	27.0	8.0	3.0	6.0			82.0
Alma.....		T.	7.5	18.5	13.5	T.	8.5	1.0	T.	49.0
Alpena.....		2.1	17.8	16.0	9.5	8.9	11.7	6.1	T.	72.1
Ann Arbor.....		T.	8.5	22.7	3.5	7.1	5.9	0.6		48.3
Arbela.....			13.5	16.0	5.0	7.0	11.5	1.0		54.0
Baraga.....		(*)	(*)	15.0	(*)	8.0	(*)	(*)		
Battle Creek.....		0.5	2.0	21.0	4.5	10.5	2.0	T.		40.5
Bay City.....			6.0	27.0	12.0	10.0	13.0	T.	T.	68.0
Berlin.....		T.	5.5	19.4	3.9	6.5	9.5	1.6	T.	46.4
Bergland.....		9.0	(*)	21.0	9.0	20.0	(*)	4.0	(*)	
Big Rapids.....		T.	5.0	13.0	10.0	5.0	8.0	3.0	T.	44.0
Bloomingdale.....		3.0	13.5	23.5	12.0	4.5	3.2	T.	T.	59.7
Cadillac.....		5.5	29.0	18.0	(*)	10.5	12.0	1.8		
Calumet.....		4.0	21.0	33.0	29.5	32.0	11.0	5.5	T.	136.0
Cassopolis.....		1.4	3.0	24.0	10.5	11.0	6.0	1.0	T.	56.9
Charlevoix.....		2.0	(*)	16.0	20.0	8.0	1.5	4.0	T.	
Charlotte.....			2.6	22.5	5.0	5.5	1.0		T.	36.6
Chatham.....		3.9	32.6	22.5	23.1	19.4	13.3	2.0	1.2	118.0
Cheboygan.....		T.	14.5	14.0	21.0	32.0	3.0	3.0	2.0	89.5
Clinton.....			T.	14.9	3.8	5.5	2.5	T.		26.7
Coldwater.....		2.0	3.2	13.9	3.0	6.0	6.1	0.5		34.7
Croton.....		T.	3.0	10.5	9.0	3.5	4.5	T.	T.	30.5
Deer Park.....		T.	12.0	18.0	8.5	(*)	10.0	(*)		
Detour.....		T.	11.2	18.5	10.0	10.0	6.0	2.0	4.0	81.7
Detroit.....		T.	2.3	20.1	5.8	13.3	7.5	1.2		50.2
Eagle Harbor.....		0.4	13.8	8.8	16.9	16.8	2.1	4.0	T.	62.8
East Tawas.....			4.4	16.0	13.0	28.0	13.0	3.0		77.4
Eloise.....		T.	0.9	17.1	4.5	8.2	5.5	1.0		37.2
Escanaba.....		1.1	12.5	13.5	12.5	14.2	9.1	0.2	1.0	64.1
Ewen.....		18.0	29.0	35.5	24.5	18.5	20.5	3.0	0.5	147.5
Flint.....		1.0	5.0	11.5	3.0	5.0	4.0			29.5
Frankfort.....			4.0	19.5	24.0	10.0	9.5	4.0	1.5	72.5
Ganges.....		15.0	4.0	16.0	8.0	6.0	4.0	1.0	T.	54.0
Gaylord.....		T.	(*)	(*)	4.5	17.5	5.0	1.5	0.2	
Gladwin.....		(*)	10.6	7.0	3.5	7.0	(*)	2.0	(*)	
Grand Haven.....		8.0	5.5	21.1	19.9	7.6	3.4	1.3	T.	66.8

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<i>Michigan—Continued.</i>										
Grand Marais.....		2.0	16.5	(*)	(*)	13.0	12.0	(*)	T.	
Grand Rapids.....		0.1	4.0	18.4	7.8	7.0	3.0	0.6	T.	40.9
Grape.....		T.	2.3	15.4	2.5	7.5	2.2	0.8		30.7
Grass Lake.....		1.0	10.0	16.0	2.0	2.0	2.0	T.		33.0
Grayling.....	(*)	(*)	31.5	15.0	14.0	26.5	11.0	(*)	(*)	
Harbor Beach.....		1.0	4.0	28.0	11.0	6.0	(*)	(*)	0.5	
Harrison.....			8.0	8.0	(*)	(*)	6.0	4.0		
Harrisville.....			11.5	22.5	6.9	22.0	11.8	6.1	1.1	81.9
Hart.....		25.0	4.0	(*)	15.0	12.0	6.0	2.0		
Hayes.....			(*)	(*)	9.0	15.0	11.5	1.5		
Highland.....			13.2	24.5	4.5	(*)	3.5	(*)	T.	
Hillsdale.....		2.0	4.5	13.5	4.0	6.5	5.5	0.5	T.	36.5
Holland.....		7.0	8.0	15.5	10.5	6.0	5.0	T.	T.	52.0
Houghton.....		4.0	15.4	23.8	22.7	21.0	11.0	4.2	T.	102.1
Howell.....			5.4	9.4	4.2	4.0	2.7	T.		25.7
Humboldt.....		12.0	10.0	10.0	18.0	18.0	9.0	7.0	1.0	85.0
Iron Mountain.....		T.	2.8	5.0	(*)	6.5	10.5	0.2	T.	
Iron River.....		T.	5.0	20.0	12.0	13.0	15.0	2.0	T.	67.0
Ironwood.....		11.0	13.0	22.0	19.0	13.0	13.0	4.0	T.	95.0
Ishpeming.....		9.5	14.6	8.8	15.1	11.5	14.2	2.2	0.1	76.0
Ivan.....		4.5	29.3	20.0	14.0	10.0	14.0	6.5	0.5	98.8
Jackson.....		1.5	4.1	10.0	3.5	10.5	1.5	T.		31.1
Jeddo.....			6.9	28.0	8.5	4.5	12.0	T.		59.9
Kalamazoo.....		1.0	11.5	39.5	8.0	(*)	5.5	0.5	T.	
Lansing (Agricultural College).....		0.6	5.9	19.8	6.3	7.7	4.3	0.5	T.	45.1
Lansing (Capitol).....		0.5	6.1	15.1	3.4	6.6	4.2	0.1	T.	36.0
Lapeer.....		T.	3.5	15.5	3.0	4.0	5.4	T.	T.	31.4
Ludington.....		4.0	6.0	12.0	8.0	7.0	2.0	2.0		41.0
Luther.....		5.8	12.6	15.2	8.5	6.5	7.5	6.0		62.1
Mackinac Island.....	(*)	(*)	11.5	5.2	(*)	5.3	5.5	0.7	2.0	
Mackinaw.....			15.0	22.0	43.0	24.0	12.0			116.0
Mancelona.....		2.0	36.7	26.0	21.0	18.0	14.0	8.0	T.	125.7
Manistee.....		12.0	2.0	8.0	7.0	4.0	1.0	6.0		40.0
Maple Ridge.....		6.0	20.0	12.0	11.0	15.0	19.0	(*)		
Marquette.....		11.5	30.9	42.6	33.7	23.9	16.3	3.4	T.	162.3
Menominee.....			9.5	12.5	10.5	6.0	7.0	2.2	3.0	50.7
Midland.....		(*)	6.0	19.5	5.0	6.0	2.0	T.	T.	
Morenci.....		T.	4.0	11.0	4.0	10.0	2.6	1.0		32.6
Mount Clemens.....			1.7	(*)	6.0	8.4	0.6	T.		
Mount Pleasant.....			7.0	7.5	3.0	8.0	4.0	T.		29.5
Muskegon.....		6.0	2.0	21.0	11.0	7.0	7.0	1.0	T.	55.0
Old Mission.....			17.8	10.1	12.7	8.3	3.1	5.4	1.0	58.4
Olivet.....		1.5	6.8	18.2	2.9	6.0	2.8	0.1		38.3
Owosso.....		2.0	6.5	24.0	5.8	8.2	2.5	T.		49.0
Petoskey.....		T.	7.0	(*)	19.0	8.0	7.0	1.0	1.0	
Plymouth.....		(*)	T.	14.5	2.5	4.5	(*)	T.		
Pontiac.....		T.	1.5	17.5	1.2	12.5	1.2	T.		33.9
Port Huron.....		T.	4.7	28.2	2.2	8.7	9.5	T.	T.	53.3
Powers.....		(*)	8.5	8.0	12.0	(*)	9.0	(*)	(*)	
Reed City.....		T.	7.9	7.0	9.0	(*)	2.0	2.5	T.	
Roscommon.....		1.5	(*)	(*)	8.2	13.5	10.1	7.6	0.1	
Saginaw.....		T.	11.8	21.5	10.0	7.5	11.0	0.5	0.2	62.5
Saginaw, W. S.....		T.	9.6	17.3	4.2	5.0	9.2	0.2	T.	45.5
St. Ignace.....		T.	6.7	11.9	18.1	16.0	2.2	T.	2.5	57.4
St. James.....		T.	3.5	13.0	9.0	18.0	4.0		2.5	50.0
St. Joseph.....		3.0	2.0	19.0	6.0	14.0	1.5	1.2		46.7
Saranac.....			2.5	14.6	5.5	6.0	1.5	T.		30.1
Sault Ste. Marie.....		T.	14.6	14.6	9.9	14.2	10.3	0.5	3.2	67.3
South Haven.....		12.0	T.	30.5	9.0	4.5	3.0		T.	59.0
Thomaston.....		6.0	12.0	28.0	14.0	13.0	16.0	6.0		95.0
Thornville.....		2.0	22.0	29.5	4.0	9.5	11.5	2.5	T.	81.0
Vassar.....			7.2	12.5	4.0	4.0	6.5			34.2
Victoria.....		10.5	15.0	37.5	29.5	31.5	17.5	5.0		146.5
Wasepi.....		2.0	6.0	15.0	6.0	8.0	4.0			41.0
Watersmeet.....		4.5	8.3	9.2	17.1	18.4	12.8	4.1	0.4	74.8
West Branch.....		T.	(*)	(*)	6.0	28.0	5.0	1.0	(*)	
Whitefish Point.....		0.4	22.4	41.8	42.2	15.8	16.4	T.	2.6	141.6
Woodlawn.....		5.5	41.5	29.5	26.0	24.5	19.8	9.5	5.0	161.3
Ypsilanti.....			2.6	20.2	4.0	9.0	4.5	1.0		41.3

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<i>Minnesota.</i>										
Albert Lea.....		T.	1.0	4.0	15.0	1.0	2.0	5.0	T.	28.0
Alexandria.....		0.1	2.6	5.3	7.2	3.5	0.7	8.4		27.8
Bird Island.....		T.	0.4	1.1	7.4	1.6	0.7	6.3		17.5
Caledonia.....		0.2	2.4	7.9	11.2	4.0	2.0	6.5	6.0	40.2
Collegeville.....		0.1	0.9	4.0	8.0	7.8	1.2	2.7		24.7
Crookston.....		T.	4.5	4.0	7.0	12.0	1.0	(*)	(*)	
Detroit.....		T.	5.2	7.5	3.3	5.4	3.0	8.0	(*)	
Duluth.....		0.1	9.7	7.3	10.5	17.5	12.2	4.3	0.1	61.7
Farmington.....		T.	3.5	3.0	15.0	3.0	2.2	2.5		29.2
Fergus Falls.....		0.3	2.5	8.1	6.6	4.1	2.0	7.8		31.4
Grand Meadow.....		T.	4.8	4.5	12.5	4.0	2.5	7.0	2.0	37.3
Hallock.....		T.	3.0	6.8	7.5	14.0	0.2	(*)	(*)	
International Falls.....		3.0	14.5	13.0	17.5	29.0	7.1	4.0	T.	88.1
Long Prairie.....		T.	1.5	4.0	4.0	1.0	T.	5.0		15.5
Minneapolis.....		0.1	3.9	4.2	10.1	5.9	4.6	8.7		37.5
Montevideo.....		0.8	0.9	1.5	12.1	5.2	(*)	8.0		
Moorehead.....		T.	3.8	5.8	10.7	6.3	1.5	9.2	0.2	37.5
Morris.....		T.	4.5	6.2	8.5	3.1	1.0	9.0		32.3
New Ulm.....		T.	1.8	2.0	25.0	3.6	0.6	8.0		41.0
Park Rapids.....		0.1	5.2	6.5	6.1	5.8	4.3	6.5	(*)	
Pokegama Falls.....		T.	9.5	13.9	8.4	10.0	2.0	7.6		49.4
Reeds Landing.....			2.7	6.5	12.0	5.0	3.0	2.5		31.7
St. Paul.....		0.5	4.0	3.7	7.9	5.7	2.1	5.5		29.4
Sandy Lake Dam.....			5.9	4.9	4.1	7.5	4.0	7.0		33.4
Virginia.....		0.2	12.5	7.0	9.2	8.2	4.0	(*)		
Winnibigoshish.....		0.5	10.2	12.0	8.3	16.5	10.1	6.5		64.1
<i>Mississippi.</i>										
Agricultural College.....					0.5					0.5
Anguilla.....				T.	1.0					1.0
Austin.....				(*)	3.0					
Bateeville.....					3.0					3.0
Big Creek.....					1.1					1.1
Booneville.....				0.8	1.0					1.8
Byhalia.....				1.5	2.0	T.				3.5
Canton.....					0.2					0.2
Charleston.....					2.5					2.5
Clarksdale.....				T.	4.0					4.0
Coffeeville.....					1.0					1.0
Corinth.....		T.		T.	1.5	T.				1.5
Crenshaw.....				0.8	3.5					4.3
Denmark.....				0.6	1.0					1.6
Duck Hill.....				T.	0.5					0.5
Edinburg.....					0.3					0.3
Enid.....					0.4					0.4
Fayette.....					0.8					0.8
Fulton.....					0.5					0.5
Greenville.....					2.0					2.0
Greenwood.....					1.0					1.0
Grenada.....					1.2					1.2
Hazlehurst.....					T.					T.
Hernando.....				0.7	4.0	T.				4.7
Hickory Flat.....					2.0					2.0
Holly Springs.....				1.0	4.0					5.0
Kosciusko.....					0.5					0.5
Lake Cormorant.....				1.6	2.0	T.				3.6
Laurel.....					T.					T.
Louisville.....					0.5					0.5
Lula.....				0.6	3.0					3.6
Macon.....				T.	T.					T.
Magnolia.....					T.					T.
Malone.....				0.5	2.2					2.7
Marks.....					3.0					3.0
Meridian.....				T.	0.1					0.1
Natchez.....					1.1					1.1
New Albany.....				T.	1.5	T.				1.5
Okolona.....				0.5	0.5					1.0
Pontotoc.....				1.0	1.0					1.0

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State and station.	1910				1911					Annual.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
<i>Mississippi—Continued.</i>										
Port Gibson.....					0.2					0.2
Rosedale.....					1.0					1.0
Senatobia.....				0.6	3.2					3.8
Shoccoe.....					0.3					0.3
Suffolk.....					0.5					0.5
University.....					1.0					3.5
Vicksburg.....				T.	0.6					0.6
Water Valley.....				T.	2.0					2.0
Woodland.....					0.5					0.5
Yazoo City.....					0.2					0.2
<i>Missouri.</i>										
Amoret.....			T.	2.5	T.	13.0	T.			15.5
Appleton City.....			0.2	3.0		14.0	1.5			18.7
Arthur.....				3.0	T.	11.5				14.5
Avalon.....			T.	3.0		6.0	4.0			13.0
Belle.....				T.		5.0	T.			5.0
Bethany.....				0.8	1.5	2.0	6.0			10.3
Birchtree.....			T.	9.0		1.0				10.0
Bolivar.....			T.	5.0		10.5				15.5
Boonville.....				0.3		9.0	2.0			11.3
Brunswick.....		T.		3.5	0.2	10.0	2.0			15.7
Caruthersville.....		T.	T.	7.0	T.	T.	T.			7.0
Columbia.....		T.		0.6	0.5	14.1	2.5			17.7
Conception.....		T.		3.0	2.0	0.5	1.5		T.	7.0
Dean.....				T.		T.				T.
Doniphan.....			T.	4.0		T.				4.0
El Dorado Springs.....				1.6		18.0				19.6
Fayette.....		T.	T.	2.5	0.1	1.5	3.0			7.1
Fulton.....		T.		(*)	T.	12.0	3.0			
Gano.....		T.	0.5	4.8	0.3	6.5	3.7			15.8
Glasgow.....				0.3		13.2	2.0			15.5
Grant City.....		T.	T.	2.0	T.	3.5	7.5	T.		13.0
Goodland.....		T.	T.	0.8		2.0				2.8
Gorin.....		T.		T.	2.5	4.1	T.			6.6
Hannibal.....		T.	T.	0.2	1.8	6.7	0.5			9.2
Harrisonville.....			1.5	2.2	T.	8.0	2.0			13.7
Hazelhurst.....			0.5	0.7	1.0	6.0	4.0			12.2
Hermann.....		T.		T.	T.	10.0	1.0			11.0
Houston.....		T.	1.0	7.0		6.0	3.0			17.0
Ironton.....		T.	T.	6.5	T.	7.0	T.			13.5
Jackson.....				8.2		3.2	5.0			16.4
Jefferson City.....				3.2	0.1	13.0	2.0			18.3
Joplin.....				0.1		T.	T.			0.1
Kansas City.....		T.	0.2	1.3	0.1	12.3	0.2			13.1
Kidder.....		T.		4.0	1.0	10.0	2.0			17.0
Koshkonong.....			T.	5.5		T.				5.5
Lamar.....			T.	0.5		1.0	4.0	T.		5.5
Lamonte.....		T.	T.	4.0	T.	11.0	T.	T.		15.0
Lebanon.....			1.0	4.0	T.	12.5				17.5
Lexington.....				2.0		10.5				12.5
Liberty.....			T.	3.0	T.	14.0	T.			17.0
Lockwood.....		T.	T.	2.0	T.	5.0	T.	T.		7.0
Louisiana.....		T.	T.	0.2	9.5	12.5	1.5			23.7
Marble Hill.....				4.0		4.0				8.0
Marshall.....			T.	6.0	T.	12.0	1.5			19.5
Maryville.....				4.2	1.7		4.0		T.	9.9
Mexico.....		T.	T.	T.	0.5	15.5	4.0			20.0
Mountaingrove.....			T.	4.5		1.2	T.			5.7
Mount Vernon.....				1.0		1.2				2.2
Neosho.....				T.		T.	T.			T.
Nevada.....				3.0	T.	1.7				4.7
New Madrid.....				0.4			T.			0.4
Oakfield.....		T.		3.0	T.	9.0	8.0			20.0
Olden.....		T.	T.	6.0		0.5				6.5
Oregon.....		T.	T.	4.0	2.5	1.8	T.	T.	T.	8.3
Pattonsburg.....				3.2	5.0	2.1	2.5			12.8
Perryville.....				9.0			4.5			13.5
Rolla.....		T.	0.6	8.0	0.3	10.6		T.		19.5

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	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
<i>Missouri—Continued.</i>										
St. Charles.....		T.		T.	0.5	12.0	6.0			18.5
St. Joseph.....		T.	T.	4.5	3.6	6.9	0.5	T.		15.5
St. Louis.....		T.		2.2	0.5	13.0	3.5			19.2
Springfield.....			T.	2.2	T.	2.7	1.2			6.1
Steffenville.....		T.	T.	T.	4.0	4.0	T.			8.0
Steelville.....		T.	T.	2.5	T.	7.0				9.5
Sublett.....		T.		T.	0.5	2.2	T.			2.7
Trenton.....		T.	T.	0.8	5.0	2.8	4.0			12.6
Unionville.....		T.	T.	T.	4.0	11.0	0.2			15.2
Warrensburg.....			T.	5.0		10.0				15.0
Warrenton.....			T.	0.5	0.4	9.0	4.0	T.		13.9
Warsaw.....			2.8	6.0	T.	12.0	0.6			21.4
Wheatland.....			1.0	2.0		12.0	(*)			
<i>Montana.</i>										
Adams.....			5.0	T.	2.0	12.7	(*)	2.5		
Adel.....	6.0	3.0	15.5	2.0	13.5	31.5	5.0	9.5	(*)	
Agricultural College.....	(*)		11.0	(*)	21.2	(*)	(*)	(*)	(*)	
Anaconda.....	0.5	T.	18.1	1.4	10.3	8.1	1.5	6.2	2.7	48.8
Augusta.....		1.0	7.0	2.0	7.5	7.0	2.0	5.0	(*)	
Babb.....	25.1	3.0	8.0	0.1	49.3	33.8	12.2	11.3	11.6	154.4
Baldbutte.....	9.5	8.6	31.7	6.9	27.6	13.7	10.9	10.0	12.9	131.8
Big Timber.....	8.0		9.0	2.0	20.0	11.0		1.0	(*)	
Big Timber Creek.....	11.4	5.0	10.1	2.1	24.5	9.5	1.0	2.1	10.7	76.4
Bison Mountain.....	1.0	11.0	39.0	16.0	36.0	23.0	9.0	32.0	25.0	192.0
Bridger.....		T.	T.	3.0	7.0	0.5	T.	2.0		12.5
Broadview.....	T.	2.0	4.0	6.0	9.0	2.0	3.0	3.0	5.0	34.0
Busby.....	12.0	0.8	11.5	7.6	11.6	0.9	6.5	2.8	2.0	55.7
Busteed.....	10.0	4.0	5.3	7.0	22.8	8.4	1.0	3.0	3.5	65.0
Butte.....	11.5	6.0	12.2	3.0	17.0	6.0	2.0	11.0	1.4	70.1
Cabin Creek.....	T.	5.4	9.2	2.6	8.1	6.6	5.5	19.0	0.2	56.6
Canyon Ferry.....	(*)		5.5	1.0	8.0	2.0	4.0	1.5	(*)	
Cascade.....	0.5	1.0	9.5	2.0	9.6	20.1	2.8	7.5	T.	53.0
Chessman Reservoir.....	T.	9.2	15.2	2.6	22.1	29.2	6.4	9.7	19.1	113.5
Clemons.....	8.5	1.5	3.1	1.0	17.5	13.7	6.8	13.0	8.0	73.1
Como.....	T.		24.0	5.0	21.0	7.5	2.0	5.0		64.5
Copper.....	12.5	T.	11.0	7.5	20.5	7.0	3.0	2.0	8.0	71.5
Crow Agency.....	4.0	T.	11.5	10.0	16.0	4.5	6.5	1.5	(*)	
Cut Bank.....	2.5	(*)	4.0	0.8	8.0	8.0		1.5		
Denton.....	0.5	1.8	5.1	4.8	10.1	5.0	5.9	7.7	6.8	47.7
Dillon.....	6.0	T.	9.6	2.0	12.0	10.7	T.	5.0	T.	45.3
Dirty Creek.....	12.5	T.	27.7	8.7	28.6	12.0	5.0	9.0	0.3	103.8
Dry Creek.....	8.0	T.	33.8	3.2	27.5	14.7	4.3	4.5	3.8	99.8
Dry Wolf Camp.....	4.5	10.5	19.4	12.0	23.8	11.7	14.6	7.3	10.5	114.3
East Anaconda.....	0.6	T.	16.3	1.3	9.3	7.4	1.5	11.3	2.4	50.1
East Gallatin River.....	7.0	2.0	23.5	7.5	45.0	18.5	3.0	8.3	6.5	121.3
Elkhorn.....	6.4	T.	11.3	3.5	26.2	7.0	7.5	7.8	5.5	75.2
Family.....	2.0	1.0	6.8	0.1	13.5	12.8	1.5	6.0	2.0	45.7
Fish Creek.....	(*)	(*)	27.0	10.1	23.6	29.7	4.0	41.4	21.0	
Flathead Creek.....	13.0	3.4	28.6	12.1	20.9	8.1	2.4	5.2	(*)	
Forsyth.....	(*)		4.3	2.0	9.5	T.	0.6	3.9	T.	
Fort Shaw.....	T.	0.3	3.0	0.2	7.0	9.2	2.0	T.	(*)	
Garneil.....	5.0	2.0	9.0	3.2	30.0	6.9	8.5	4.7	7.0	76.3
Goldbutte.....	0.8	T.	6.0	3.0	6.5	9.0	2.5	4.0	(*)	
Graham.....	1.5	0.3	2.0	3.5	7.3	1.6	5.8	4.0		26.0
Great Falls.....	1.5		6.4	3.0	14.0	12.0	3.3	8.2		48.4
Half Moon Pass.....	7.0	8.0	18.0	22.7	35.8	7.0	18.7	17.5	27.0	161.7
Half Way House.....	8.0	2.0	18.3	16.3	26.7	28.2	8.2	7.0	(*)	
Hat Creek.....	5.2	5.4	25.0	7.3	30.9	14.2	5.7	15.2	7.1	116.0
Havre.....			5.2	10.0	13.0	8.5	1.3	4.6		42.6
Helena.....	1.0	0.5	15.3	2.0	15.7	4.7	5.6	5.9	5.2	55.9
Highwood.....	2.0	4.0	9.3	4.3	12.0	18.7	3.1	11.9	3.0	68.3
Huntley.....	7.0		3.0	7.0	17.0	3.2	0.2	2.0	(*)	
Kalispell.....	T.		7.4	3.0	4.0	5.3	3.9	2.9	T.	26.5
Lewistown.....	(*)	3.0	11.0	8.0	24.5	11.0	6.0	2.5	6.0	
Livingston.....	7.0	(*)	9.5	3.0	18.5	1.0	0.2	0.7	(*)	
Lonetree.....	(*)	2.0	10.0	6.0	11.5	14.0	1.0	5.0		
Lost Creek.....			18.5	4.5	7.0	9.0	0.5	7.0	6.0	52.5
Lost Horse Creek.....	17.3	5.5	18.5	9.5	31.5	12.5	1.3	5.0	(*)	

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State and station.	1910				1911					Annual.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
<i>Montana—Continued.</i>										
Malta.....		T.	4.7	2.0	7.7	6.5	0.5	3.7	T.	25.1
Melstone.....	(*)	T.	3.0	4.0	5.0	7.0	4.0	.....	(*)	.....
Mildred.....		T.	0.3	T.	6.0	2.0	T.	0.5	.....	8.8
Miles City.....		T.	6.4	3.3	13.1	1.0	T.	3.4	.....	27.2
Norris.....	4.0	(*)	4.6	2.0	10.3	20.6	2.1	0.5	8.0	.....
Nye.....	4.0	12.5	7.4	3.7	24.2	18.4	2.6	(*)	8.0	.....
Olsen Creek.....	2.9	1.6	11.6	5.6	21.2	11.0	.....	14.0	1.5	69.4
Ovando.....	0.5	(*)	41.5	14.7	31.2	14.5	5.5	10.2	.....	.....
Philipsburg.....	1.5	0.8	16.4	0.5	12.7	10.5	3.0	11.5	T.	56.9
Pipestone Pass.....	12.0	1.0	12.5	5.5	16.5	13.5	4.0	10.0	7.0	82.0
Pleasant Valley.....	3.0	.....	15.0	6.0	15.5	17.0	5.2	2.5	4.0	68.2
Poplar.....	.....	.....	4.0	T.	4.5	5.1	1.5	4.2	12.5	31.8
Red Lodge.....	7.0	10.0	4.0	1.2	12.8	16.0	7.0	6.5	6.0	70.5
Ryegate.....	(*)	T.	1.5	1.2	3.8	5.0	1.0	4.5	.....	.....
St. Ignatius.....	1.5	.....	13.9	3.6	3.0	3.0	0.4	3.0	T.	28.4
Saltese.....	.....	(*)	38.0	28.0	53.0	28.0	18.0	9.0	6.0	.....
Snowshoe.....	6.5	4.0	49.3	32.9	92.6	42.4	34.4	24.5	26.5	313.1
Springbrook.....	.....	T.	4.2	7.0	5.5	19.0	1.5	1.2	1.3	39.7
Stearns.....	5.0	.....	6.0	8.0	40.0	21.0	.....	13.0	(*)	.....
Trail Creek.....	9.0	4.2	33.8	15.3	32.1	20.5	8.1	19.4	12.0	154.4
Virginia City.....	2.0	(*)	12.5	3.0	9.8	5.0	1.5	3.2	(*)	.....
Wall Rock Mountain.....	1.5	0.1	25.5	8.5	28.9	9.9	6.4	1.3	.....	82.1
Willow Glen Stock Farm.....	2.0	T.	15.0	0.2	5.2	4.0	T.	12.0	T.	38.4
Woodville.....	5.0	1.0	16.6	10.5	16.5	6.9	1.3	13.6	(*)	.....
<i>Nebraska.</i>										
Alliance.....	.....	T.	T.	5.2	4.2	0.8	3.0	20.0	.....	33.2
Ashland.....	.....	T.	.....	7.5	2.5	3.0	0.7	.....	.....	13.7
Auburn.....	.....	T.	T.	5.0	4.6	2.5	0.5	0.2	.....	12.8
Beatrice.....	.....	.....	.....	8.0	1.0	(*)	(*)	.....	.....	.....
Cambridge.....	.....	T.	.....	4.0	2.0	(*)	(*)	T.	.....	.....
David City.....	.....	T.	0.5	8.6	3.0	6.8	0.5	2.0	0.5	21.9
Ewing.....	.....	.....	.....	10.0	3.2	9.5	2.0	5.8	.....	30.5
Geneva.....	.....	T.	T.	12.0	2.0	T.	1.5	1.0	.....	16.5
Genoa.....	.....	T.	T.	17.0	1.0	10.0	0.5	2.0	1.0	31.5
Hartington.....	.....	T.	.....	3.0	2.0	14.0	2.7	3.0	.....	24.7
Hay Springs.....	.....	1.0	T.	8.0	3.0	4.0	5.0	33.0	.....	54.0
Hillside.....	.....	T.	0.5	7.5	7.0	3.0	.....	13.0	0.6	31.6
Imperial.....	.....	T.	.....	6.2	5.0	2.5	2.0	2.0	.....	17.7
Kearney.....	.....	T.	.....	5.0	1.5	3.0	T.	T.	.....	9.5
Kimball.....	.....	T.	1.0	5.5	9.1	4.8	2.0	6.0	.....	28.4
Kirkwood.....	.....	T.	T.	9.0	1.5	10.0	0.5	7.0	.....	28.0
Lincoln.....	.....	T.	0.3	8.1	2.9	1.0	0.6	1.5	T.	14.4
Norfolk.....	.....	T.	T.	7.0	3.2	7.2	3.5	4.2	0.5	25.6
North Loup.....	.....	T.	T.	16.4	3.0	6.6	1.0	6.5	.....	33.5
North Platte.....	.....	.....	T.	8.0	5.0	4.1	1.2	1.2	0.5	20.0
Omaha.....	.....	0.1	.....	5.8	5.6	2.3	6.0	0.3	0.2	20.3
Purdum.....	.....	T.	T.	11.8	4.5	6.0	2.0	13.5	.....	37.8
Redcloud.....	.....	T.	T.	9.5	2.0	1.0	0.5	T.	T.	13.0
St. Libory.....	.....	.....	.....	10.5	4.0	6.0	0.5	.....	0.5	21.5
Scottsbluff.....	.....	.....	T.	3.5	8.0	2.0	0.1	16.4	.....	30.0
Tekamah.....	.....	.....	T.	6.0	2.0	8.5	2.0	1.0	0.5	20.0
Valentine.....	.....	0.2	0.2	8.7	9.0	7.1	1.8	3.0	.....	30.0
<i>Nevada.</i>										
Battle Mountain.....	.....	.....	.....	5.0	4.0	4.0	.....	.....	.....	13.0
Cherry Creek.....	.....	.....	T.	2.5	5.8	11.4	1.9	T.	0.5	22.1
Clover Valley.....	.....	.....	.....	2.0	(*)	7.5	T.	T.	.....	.....
Columbia.....	.....	T.	2.0	11.0	2.0	10.5	2.0	1.0	T.	28.5
Elko.....	.....	.....	0.2	0.5	(*)	(*)	(*)	.....	.....	.....
Ely.....	.....	.....	T.	7.0	4.5	21.1	2.2	(*)	(*)	.....
Eureka.....	.....	T.	8.5	9.5	10.0	26.0	13.5	1.5	3.0	72.0
Gardnerville.....	.....	.....	.....	2.0	28.0	20.0	(*)	(*)	.....	.....
Glenbrook.....	.....	1.0	2.0	11.0	129.0	54.0	68.5	11.0	1.5	278.0
Golconda.....	.....	.....	.....	4.0	14.0	3.0	.....	1.0	.....	22.0
Halleck.....	.....	.....	0.2	1.5	4.5	7.5	(*)	0.5	T.	.....
Lewers's Ranch.....	.....	.....	.....	7.0	47.0	33.0	16.0	T.	T.	103.0
North Fork.....	2.1	5.9	7.5	12.2	1.5	5.0	0.1	34.3

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

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State and station.	1910				1911					Annual.
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<i>Nevada—Continued.</i>										
Potts.....				6.0	2.5	13.0	6.0	6.0	2.0	35.5
Reno.....		T.	T.	3.1	40.5	6.7	6.0	T.	T.	56.3
Rose Creek.....			3.0	12.0	24.0	16.0	(*)	3.3		21.0
San Jacinto.....			2.5	4.0	4.5	8.5	0.5	1.0	T.	31.6
Smith.....				3.5	2.0	16.2	9.9			23.5
Spooner's Ranch.....			T.	10.8	133.8	71.0	81.0	18.0	(*)	36.1
Tecoma.....			T.		8.0	14.5	1.0			23.3
Tonopah.....		T.	T.	10.8	0.8	14.1	4.9	5.5	T.	
Winnemucca.....			0.2	3.0	14.2	3.8	0.9	1.2	T.	
<i>New Hampshire.</i>										
Bethlehem.....		1.0	14.0	17.0	10.5	14.0	19.5	6.0	T.	82.0
Brookline.....			5.0	6.2	1.2	19.0	11.5	10.0		52.9
Concord.....		T.	4.8	11.1	2.9	21.3	14.6	8.3	T.	63.0
Grafton.....		1.0	10.0	23.0	6.5	26.0	19.0	5.0	1.0	91.5
<i>New Jersey.</i>										
Asbury Park.....			T.	20.8	3.0	8.0	4.0	1.0		36.8
Atlantic City.....			T.	7.2	4.0	3.9	0.8	T.		15.9
Bayonne.....			T.	11.4	2.7	12.9	5.2	1.5		33.7
Belvidere.....			3.0	6.0	1.5	13.0	7.7	4.5		35.7
Bridgeton.....			T.	9.0	4.5	6.0	3.0			22.5
Cape May.....			T.	2.3	2.3	3.8	3.8	0.4		12.6
Dover.....			4.0	10.3	2.5	14.0	7.0	4.5		42.3
Hammonton.....			T.	18.7	7.1	8.5	2.6	2.0		38.9
Hightstown.....			1.5	12.5	4.5	10.0	6.0	3.0		37.5
Lambertville.....			2.0	11.8	3.0	11.0	7.0	2.0		36.8
Moorestown.....			1.0	14.1	5.8	7.7	4.7	3.2		36.5
New Brunswick.....			1.5	10.0	7.0	17.0	8.4	4.0		47.9
Paterson.....			0.7	8.6	2.7	12.2	4.0	2.3		30.5
Sussex.....			14.0	11.5	1.4	14.5	8.5	6.0		55.9
<i>New Mexico.</i>										
Abbott.....		0.3	6.0	1.5	2.0	6.0	T.			15.8
Agricultural College.....							T.			T.
Alamogordo (near).....						[4.0]				[4.0]
Alamogordo.....						[4.0]				[4.0]
Albert.....			T.	T.	2.5	6.0				8.5
Albuquerque.....		T.		0.7		5.2				5.9
Alma.....						T.				T.
Ancho.....		0.5		1.7	0.1	9.0				11.3
Aragon.....			T.	T.	[7.4]	17.5	2.0			[26.9]
Artesia.....				T.	1.5	0.7				2.2
Aspen Grove Ranch.....		24.6	10.2	12.6	22.4	54.6	13.9	4.4	2.1	144.8
Aurora.....		6.0	6.0	9.0	6.0	19.5	7.0		4.0	57.5
Aztec.....				12.0	T.	19.0	T.			31.0
Bateman's ranch.....		19.5	13.2	13.5	34.8	32.6	21.0	2.0	0.8	137.4
Bell Ranch.....				T.	1.3	9.0				10.3
Black Lake.....				4.1	2.0	12.2	4.8		4.0	27.1
Bloomfield.....		T.	T.	7.2	T.	15.1	1.0			23.3
Bluewater.....		3.0	0.5	2.0	2.0	24.5	T.			32.0
Boaz.....				T.	4.0					4.0
Cabeza.....		T.	1.0	0.5	3.0	7.7				12.2
Cambray.....						1.0				1.0
Campana.....		T.		T.	3.0	10.0				13.0
Capitan.....		4.0	2.0	2.5	2.0	[18.0]				[28.5]
Carlsbad.....					1.0	0.2				1.2
Carrizozo.....		T.				4.0				4.0
Chacon.....		4.5	7.0	2.0	[2.5]	24.2	3.5		2.0	[45.7]
Chama.....		3.0	7.3	18.0	26.0	24.5	17.0			95.8
Cimarron (near).....		0.8	1.2	T.	0.5	20.5	8.0			31.0
Clayton.....		T.	3.0	T.	T.	11.0	T.			14.0
Cloudcroft.....		8.0	T.	8.2	T.	21.5	3.0	T.		40.7
Columbus.....						T.				T.
Corona.....		4.0	0.5	0.6	0.6	22.0	4.0	1.0		32.7
Coyote.....		T.				2.5				2.5
Cuervo.....				T.	T.	11.0				11.0
Cundiyo.....		2.4		6.3	0.9	22.0				31.6

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<i>New Mexico—Continued.</i>										
Dawson.....		8.0	2.0		T.	14.2	2.7			26.9
Deming.....						[5.0]				[5.0]
Demonstration Farm.....		2.0	2.2	2.0	T.	18.5	1.2		0.2	26.1
Dulce.....		12.2	4.0	12.5	1.2	25.5	1.5	T.		56.9
Duran.....		2.5	1.0	T.	T.	15.0	0.2	T.		18.7
Elizabethtown.....		8.0	1.8	4.0	7.0	24.0	15.0	0.5	2.8	63.1
Escondido.....										0.0
Espanola.....				2.0	0.1	7.1				9.2
Estancia.....		2.0	5.0	4.0	5.5	17.5				34.0
Folsom.....		4.8	1.0	4.0	2.0	15.0	1.9		T.	28.7
Fort Bayard.....				0.8		5.5		T.		6.3
Fort Stanton.....		4.0	T.	1.8	0.1	18.5	T.	T.		24.4
Fort Sumner.....					1.5	5.0				6.5
Fort Union.....		T.	5.0	3.0	T.	13.0	T.			21.0
Fort Wingate.....		T.	1.0	8.5	1.0	23.2	(*)	(*)	(*)	
Fruitland.....				4.0	T.	7.0	0.2			11.2
Gage.....						[3.0]				[3.0]
Gallinas Planting Station.....		11.0	7.5	6.0	3.0	29.0	3.2	3.5		63.2
Gila Planting Station.....				0.8		8.5		T.		9.0
Glorieta Ranch.....						21.5	3.0	T.		24.5
Hachita.....						T.				T.
Harvey's Upper Ranch.....		36.7	16.5	30.0	15.0	59.0	29.5	22.0	2.5	211.2
Hayden.....			2.5		2.0	12.5				17.0
Haynes.....		2.5		5.0		10.5		0.5		18.5
Hermance.....						1.0				1.0
Hodges.....		T.	3.3	14.3	6.7	23.5	4.0			51.8
Hondo Reservoir.....		T.		T.	1.0	6.0				7.0
Jemez Springs.....		6.0	T.	5.2	T.	22.9		T.		34.1
Johnson's Park.....		T.	1.2	T.	T.	4.0	2.0	T.	T.	7.2
Kappus.....		1.0		T.	2.0	8.0				11.0
Knowles (near).....		T.			0.5	T.	T.			0.5
Laguna.....		3.5	2.0	1.5	1.5	23.5				32.0
Lagunita.....		1.0	T.	0.8	0.5	12.0				14.3
Lake Alice.....		3.0	2.0	9.0	3.0	30.5	5.0			52.5
Lake Valley.....						8.0		T.		8.0
Las Vegas.....		1.5	2.0	[2.8]	0.8	16.0	1.3	2.0	1.0	[27.4]
Liston.....					T.	[6.0]				[6.0]
Logan.....		T.			1.5	9.5				11.0
Lordsburg.....										0.0
Los Alamos.....		1.0	4.0	4.0	1.0	19.0				29.0
Los Lunas (near).....		T.			T.	1.5				1.5
Luna.....			6.0	T.	1.0	21.2	4.0	1.0		33.2
Lykins (near).....		0.8	0.5	0.5	1.2	4.6	0.5			8.1
Magdalena.....		T.	2.0	T.	T.	20.0	T.	T.		22.0
Maxwell (near).....			2.2	3.0	4.0	5.8	1.2			16.2
Melrose.....		T.	T.	T.	T.	2.0				2.0
Miami Ranch.....		1.5	4.5	2.0	1.0	20.2	2.0			31.2
Mimbres.....										0.0
Mineral Hill.....		6.0	7.2	2.5	2.0	24.0	T.	3.0		44.7
Monterey.....						2.0				2.0
Montoya.....				2.0		11.5				13.5
Mountainair.....		4.0	5.0	5.0	4.0	36.0	T.	3.0		57.0
Mount Dora.....		1.0	2.0	T.	0.5	6.5	0.5			10.5
Nara Visa.....		1.0		0.2	0.8	4.5				6.5
Newman.....						T.				T.
Noria.....						T.				T.
Orogrande.....						T.				T.
Oscura.....		T.	T.			0.7				0.7
Otis.....					2.0	T.				2.0
Otto.....		1.0	2.0	2.5	2.0	25.5		1.5		34.5
Pasamonte.....		T.	T.	T.	[0.5]	13.2				[13.7]
Pastura.....		2.0	T.	1.0	1.0	18.0				22.0
Placitas (near).....		14.0	5.5	7.2	3.5	56.0	5.5	8.0		99.7
Pratt.....										0.0
Raton.....			3.5	4.5	2.0	19.5	3.8	T.	0.1	33.4
Red River Canyon.....		11.0	14.0	23.0	12.0	63.0	14.0	10.0	T.	147.0
Redrock.....										0.0
Rincon.....						1.0				1.0
Rio Grande Dam.....						T.				T.
Rociada.....		10.0	2.0	4.0	1.0	28.0	7.0	8.0	1.0	61.0

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<i>New Mexico—Continued.</i>										
Rodeo.....										0.0
Rosedale.....		4.0	4.0	0.8	0.8	19.6	5.0	1.0		49.6
Roswell.....		T.		T.	0.5	8.8				9.3
Roy.....		0.2	2.0	2.5		17.2	T.			21.9
San Jon.....		T.		T.	T.	3.3				3.3
San Rafael.....		2.0	2.0	4.5	T.	30.0				38.5
Santa Fe.....		0.4	2.4	4.5	0.3	18.7	T.	T.	0.1	26.4
Santa Fe Canyon.....		0.2	0.7	1.1	2.0	25.0	T.			29.0
Santa Rosa.....		2.0	T.	T.	0.5	12.0	T.			14.5
Socorro.....						(*)				
Solano.....		0.2	5.5	3.5	3.8	15.0	2.0			30.0
Springer.....		3.0	4.0	2.0	2.5	11.2	T.			22.7
Stanley.....		1.0	1.0	3.0	[2.0]	18.2				[25.2]
Strauss.....										0.0
Taft.....						3.0				3.0
Tajique (near).....		8.0	5.0	2.0	5.0	36.0	6.0	10.5		72.5
Taos.....			0.2	11.3	0.8	16.8	4.0	0.5		33.6
Taos Canyon.....		3.0	5.9	10.9	9.4	21.6	9.8	1.7	1.8	64.1
Taylor.....		0.5	4.5	3.2	1.0	7.5				16.7
Tecolote.....		2.0	1.0	1.1	2.0	17.5				23.6
Three Rivers.....						3.4				3.4
Tijeras Canyon.....		3.0	1.8	8.0	3.0	27.0	T.	T.		42.8
Torrance.....		2.0	0.5	5.0	2.0	24.0		T.		33.5
Trementina.....					2.0	8.5				10.5
Tres Piedras.....		14.0	3.0	2.0	4.0	31.0	(*)	(*)	(*)	46.0
Truchas.....		5.0	3.0	13.0	T.	21.0	4.0			46.0
Tucumcari.....		2.0	T.	2.5	1.0	7.5				13.0
Tularosa.....						[3.7]				[3.7]
Valley.....			T.	1.0	T.	18.0	2.0			21.0
Vaughn.....		1.0		2.5		22.0	2.5	T.	T.	28.0
Vermejo Park.....		1.0	[3.5]	2.0	4.0	10.5	5.0	T.	T.	[26.0]
Virsylvia.....		2.5	4.2	8.8	3.0	16.0	5.0	2.2	1.2	42.9
Wagon Mound (near).....		1.0	4.5	2.9	T.	7.5	T.			15.9
Winsor's.....		2.0	7.0	13.0	4.0	39.5	2.0			67.5
<i>New York.</i>										
Adams Center.....		5.0	25.5	59.0	25.5	38.0	23.0	3.0	T.	184.0
Addison.....		T.	9.0	7.4	3.2	20.5	6.2	5.0	T.	51.3
Albany.....		T.	4.3	5.8	0.5	11.0	14.4	4.5	T.	40.5
Alfred.....		1.0	26.5	25.5	7.5	25.8	10.0	6.5	0.5	103.3
Alleghany.....		7.8	6.5	16.3	11.2	16.0	16.3	8.2	0.7	83.0
Angolica.....		1.0	19.0	25.0	8.0	25.0	13.0	9.0	T.	100.0
Appleton.....		T.	10.3	15.0	5.0	7.9	5.5	0.5	T.	44.2
Athens.....		T.	2.5	1.5	0.5	14.0	14.5	7.0	T.	40.0
Auburn.....		T.	21.0	22.0	12.0	20.0	12.0	3.0	T.	90.0
Avon.....		T.	8.8	11.0	7.5	14.0	8.0	3.0		52.3
Ballston Lake.....		T.	7.0	6.7	3.7	10.5	21.2	2.0	T.	51.1
Bedford.....			2.0	5.5	2.0	8.0	4.0	3.5		25.0
Binghamton.....		T.	32.9	9.2	5.3	15.5	7.1	1.8	T.	71.8
Blue Mountain Lake.....		5.0	14.9	18.0	22.5	34.5	32.0	7.0	1.0	134.9
Bolivar.....		3.0	32.0	25.0	8.0	22.5	15.0	8.5	T.	114.0
Bouckville.....		1.5	27.5	17.5	8.0	25.5	27.0	5.5	T.	112.5
Brockport.....		3.0	11.0	29.5	8.5	28.0	14.0	2.0	1.0	97.0
Buffalo.....		0.2	3.6	25.4	14.0	25.8	12.7	0.7	T.	82.4
Canton.....		0.6	15.0	25.6	13.9	22.4	14.5	2.0	0.2	94.2
Carmel.....			3.0	3.0	1.0	15.0	9.0	6.5		37.5
Carvers Falls.....			8.0	10.0	3.0	23.0	7.0	2.0		53.0
Chatham.....		T.	6.3	3.0	0.5	13.0	8.0	6.0	T.	36.8
Chazy.....		0.8	4.5	9.5	5.5	19.0	23.0	3.0		65.3
Courtland.....		T.	19.0	19.6	6.4	25.2	14.7	6.1	T.	91.0
Cutchogue.....			T.	18.0	2.5	14.5	5.5	6.0		46.5
Dannemora.....		3.0	8.6	29.2	12.0	28.0	26.9	3.2	T.	110.9
De Ruyter.....		T.	31.2	14.8	5.1	18.6	22.9	2.7	T.	95.3
Easton.....		T.	10.0	11.0	6.0	11.5	18.0	7.0		63.5
Elba.....		T.	16.0	52.0	35.0	41.0	13.0	3.0	0.1	160.1
Fayetteville.....		T.	17.0	15.2	5.0	15.2	12.5	3.5	0.5	68.9
Gabriels.....		1.5	19.0	19.7	17.2	17.5	23.0	4.5	3.0	110.4
Glens Falls.....		T.	9.0	9.0	11.5	17.2	20.7	2.0		69.4
Gloversville.....		T.	13.2	12.5	13.5	22.0	22.0	5.0		88.2

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<i>New York—Continued.</i>										
Greenwich.....		T.	8.0	16.0	5.7	12.0	21.5	6.0		69.2
Homer.....		T.	17.7	11.5	6.5	13.0	6.5	5.0	T.	60.2
Hoosick Falls.....		T.	9.2	11.2	4.0	14.2	17.7	4.5	T.	60.8
Hunt.....			4.0	9.0	3.0	26.0	11.0	2.0		55.0
Ithaca.....		T.	11.7	11.6	6.6	32.8	11.0	6.3	0.1	80.1
Jeffersonville.....		T.	13.0	10.0	1.0	14.0	15.0	6.0	T.	59.0
Keene Valley.....		0.2	11.2	12.8	10.8	17.5	24.2	9.0	2.0	87.7
King Ferry.....		T.	12.5	11.8	4.5	21.4	10.1	3.2		63.5
Lake George.....		T.	9.4	5.2	7.5	21.5	16.8	22.3		82.7
Lake Placid Club.....		13.0	40.6	36.2	29.8	38.0	34.6	7.0	9.0	208.2
Le Roy.....		0.9	18.4	23.8	12.1	31.0	14.2	3.4	T.	103.8
Liberty.....			18.5	11.5	2.0	18.5	16.5	T.		67.0
Lockport.....		0.8	6.0	23.5	12.7	14.6	6.5	2.5	0.2	66.8
Mohawk Lake.....			7.8	4.0	1.2	15.0	9.5	6.0		43.5
Moira.....		2.0	13.7	36.0	23.5	41.5	35.0	9.0	0.5	161.2
Morehouseville.....		2.0	27.0	27.5	18.0	55.0	48.0	8.5		186.0
Nehasane.....		4.3	27.0	55.2	32.0	39.3	54.5	12.5	2.5	227.3
Newark Valley.....		T.	32.0	15.0	7.5	28.5	14.0	2.0	0.5	99.5
New Lisbon.....		T.	16.0	14.0	5.0	16.0	19.0	6.0	1.0	77.0
New York City.....			T.	8.9	1.1	12.5	2.8	0.7		26.0
Ogdensburg.....		T.	8.4	22.5	22.7	31.2	16.6	T.	T.	101.4
Oswego.....		1.1	12.7	25.3	5.6	21.8	11.2	2.1	T.	79.8
Palermo.....		1.0	27.4	33.4	1.2	20.1	11.1	6.5	0.3	101.0
Perry City.....		0.9	14.6	10.9	7.9	21.2	6.0	6.1	0.2	67.8
Philadelphia.....		3.5	23.5	25.5	15.0	14.5	10.0	T.	T.	92.0
Raquette Lake.....		3.0	23.1	35.0	16.8	43.0	48.0	6.8	1.2	176.9
Rochester.....		2.2	15.7	29.8	9.5	30.0	13.5	4.7	2.0	107.4
Setauket.....			0.4	10.0	1.5	14.5	4.0	4.0		34.4
Southampton.....			0.1	21.7	2.7	16.0	3.4	7.0		50.9
Syracuse.....		0.4	15.3	22.7	10.2	22.9	21.1	6.3	T.	98.9
Volusia.....		4.0	33.0	36.0	11.0	12.0	12.0	6.0	T.	114.0
Wading River.....			T.	14.5	2.8	17.5	8.5	5.0		48.3
Wappingers Falls.....			4.0	9.0	3.0	14.0	12.0	10.5		52.5
Warwick.....			0.9	12.0	0.2	20.0	0.6	0.6		34.3
Watertown.....		2.0	14.0	32.5	17.0	20.0	20.0	T.	T.	105.5
Waverly.....		0.3	17.4	9.7	3.9	15.5	7.3	3.4	0.2	57.7
Wedgewood.....		T.	19.5	18.0	5.5	37.0	10.5	6.0	0.5	97.0
West Berne.....			15.0	9.0	3.0	13.0	14.0	7.0		61.0
Westfield.....		2.0	8.5	17.5	4.5	7.0	4.5	1.5		45.5
West Point.....			T.	5.0	3.0	14.7	6.5	3.5		32.7
Windham.....			22.2	4.0	1.0	11.5	15.8	6.5	T.	61.0
Youngstown.....			3.0	17.5	9.5	19.8	11.0	1.0		61.8
<i>North Carolina.</i>										
Altapass.....	(*)	(*)		0.8		2.0	(*)	(*)	(*)	
Andrews.....		0.4		T.		3.0	1.3			4.7
Asheville.....		T.	T.	1.8	0.1	T.	T.			1.9
Banners Elk.....		4.0		12.0	3.0		6.0			25.0
Beaufort.....				T.	T.					T.
Belhaven.....				1.9	T.					1.9
Brevard.....				T.		1.5	T.			1.5
Brewers.....				3.5	2.0	0.5	0.5			6.5
Bryson City.....		0.1		3.3		T.				3.4
Caroleen.....				0.2		T.				0.2
Chalybeate Springs.....		T.		1.0	T.		2.5			3.5
Chapel Hill.....	(*)	T.		0.9	1.0		1.0			
Charlotte.....				0.1		0.1				0.2
Chimney Rock.....				1.0						1.0
Cullowhee.....		1.0	T.	1.3		1.5	T.			3.8
Durham (near).....	(*)			(*)	(*)	(*)	(*)	(*)	(*)	
Eagletown.....		T.		0.8	3.0		1.0			4.8
Edenton.....				T.	5.0		(*)			
Enfield (near).....				1.0	3.0		T.			4.0
Fayetteville.....		T.		T.						T.
Goldsboro.....				T.	0.2	T.	0.3			0.5
Graham.....		T.		2.5	2.5		2.8			7.8
Greensboro.....				1.0			0.5			1.5
Greenville.....				1.6	3.8		0.3			5.7
Hatteras.....					2.5					2.5

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<i>North Carolina—Continued.</i>										
Henderson.....		T.		1.5	2.5		2.0			6.0
Hendersonville.....				T.		1.0				1.0
Highlands.....		0.5		0.5		5.0	1.0		(*)	7.0
Hot Springs.....		T.	T.	0.7	2.5	1.0	6.0			10.2
Jefferson.....		0.2	T.	2.3	2.0	5.0	4.2	T.		13.7
Kings Mountain (near).....	(*)			T.						T.
Kinston.....				T.	T.		T.			T.
Lenoir.....				1.4		0.5				2.4
Lincolnton.....				0.2		T.	T.			0.2
Louisburg.....		T.		T.	3.8		3.5			7.3
Lumberton.....				T.						T.
Manteo.....					1.5		0.2			1.7
Marion.....		T.		1.7	T.	1.3	1.5			4.5
Marshall.....		0.2	0.3	1.3	(*)	(*)	(*)			
Moncure.....		T.		0.8	4.0		0.8			5.6
Monroe.....				(*)	(*)	(*)	(*)			
Morganton.....				0.2		0.2	1.5			1.9
Mount Airy.....				1.7	3.5	2.5	4.0			11.7
Mount Holly.....				1.0						1.0
Murphy.....		0.5	T.	2.5	1.0	2.0	(*)			
Nashville.....		T.		3.0	4.5		2.0			9.5
Newbern.....				T.	T.					T.
Pittsboro.....				(*)	(*)	(*)	(*)			
Raleigh.....		T.		0.9	1.7		1.4			4.0
Ramseur.....		T.	T.	2.0	1.0		3.3			6.3
Randleman.....				1.1						1.1
Reidsville.....				3.5	2.2					5.7
Rock House.....		0.5	T.	0.6		4.4	1.0			6.5
Rockingham.....				(*)	(*)					
Rocky Mount.....				2.5	4.5		T.			7.0
Roxboro.....	(*)	(*)		3.5	2.0		1.0			
Salem.....		T.		1.0						1.0
Salisbury.....				T.			0.5			0.5
Saxon.....				3.5	3.0		2.0			8.5
Scotland Neck.....				1.0	3.5		1.2			5.7
Selma.....	(*)	(*)		(*)	2.0		(*)	(*)		
Settle.....				0.6	1.0	2.3	1.2			5.1
Sloan.....				T.						T.
Snow Hill.....				0.2	0.1		0.2			0.5
Southern Pines.....				T.			T.	(*)		
Southport.....				T.						T.
Statesville.....				(*)		T.	3.2			
Tarboro.....				1.5	4.0		T.			5.5
Waynesville.....				(*)		1.2	0.8	T.		
Weldon.....				0.9	2.0	T.	1.1			4.0
Whiteville.....	(*)			(*)						
Willard.....				0.8						0.8
Wilmington.....										0.0
<i>North Dakota.</i>										
Amenia.....			2.5	T.	1.8	8.5	T.	8.5		21.3
Aplin.....		0.5	1.5	4.0	5.0	3.0	T.	0.2		14.2
Beach.....		0.2	3.5	3.0	8.0	6.5	2.0	2.8		26.0
Berthold Agency.....		0.5	1.1	4.0	8.4	2.6	2.5	4.2		23.3
Bismarck.....		T.	0.2	4.3	14.2	11.2	2.3	5.0		37.2
Bottineau.....		T.	14.5	7.8	9.0	5.7	6.6	9.0	T.	52.6
Broncho.....			T.	1.0	9.2	9.0	0.5	6.6		26.3
Buford.....			6.8	1.0	3.0	6.0	7.0	(*)		
Cando.....			(*)	(*)	(*)	(*)	2.0	(*)		
Coal Harbor.....		(*)	(*)	(*)	13.5	6.5	6.3	8.9		
Crosby.....		T.	11.2	6.0	5.5	9.0	2.0	2.5	T.	36.2
Devils Lake.....		T.	5.3	7.1	9.5	15.3	0.7	6.4	T.	44.3
Dickinson.....		0.8	0.4	1.5	9.0	5.5	2.9	4.3	T.	24.4
Donnybrook.....		T.	10.0	3.5	4.0	8.5	0.4	(*)	T.	
Dunseith.....			5.0	8.0	9.5	4.0	2.0	3.7		32.2
Edgeley.....		T.	0.3	1.5	2.7	3.5	0.3	1.7		10.0
Edmore.....		T.	T.	1.0	(*)	7.0	T.	15.0		
Epping.....		T.	7.5	3.5	9.0	5.0		6.0		31.0
Forman.....		T.	2.0	6.0	4.5	T.	1.0	(*)		

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<i>North Dakota—Continued.</i>										
Fullerton.....		T.	0.4	3.9	7.2	8.1	2.1	6.8		28.5
Grafton.....	(*)	(*)	(*)	(*)	21.4	8.4	0.3	7.7	T.	
Granville.....			7.0	17.0	11.0	14.0	2.0	0.6		51.6
Haley.....	T.	T.	T.	0.5	1.7	0.2	0.7	1.3	T.	4.4
Hannah.....		T.	(*)	6.0	7.0	3.0	1.0	10.0	7.0	
Hansboro.....			6.3	3.8	2.9	3.5		4.5	T.	21.0
Hettinger.....		T.	T.	(*)	0.5	(*)	T.	(*)		
Hillsboro.....		T.	3.4	4.0	6.1	14.0	T.	9.0		36.5
Howard.....		1.7	10.5	21.0	13.0	17.7	1.2	10.0	1.5	76.6
Jamestown.....			1.5	3.8	16.7	8.0	2.5	8.5		41.0
Lakota.....		T.	8.0	9.7	12.5	11.0	1.5	22.0		64.7
Lamoine.....			T.	3.0	20.0	11.0	2.5	7.0		43.5
Larimore.....		T.	4.0	10.5	(*)	(*)	(*)	6.8		
Lisbon.....			1.0	1.5	13.0	10.0	T.	(*)		
McHenry.....		T.	1.5	4.3	22.0	7.4	0.6	7.7		43.5
McKinney.....		T.	15.0	3.5	6.0	8.0	1.5	3.0		37.0
Manfred.....		T.	4.0	8.0	11.0	11.0	1.0	12.0		47.0
Marmarth.....	2.0	T.	1.0	2.6	3.1	4.0	3.0	3.0	T.	18.7
Marstonmoor.....		T.	T.	4.5	7.0	7.5	1.5	12.0		32.5
Medora.....	T.	T.	T.	2.2	7.5	5.4	0.4	4.2	T.	19.7
Melville.....		T.	0.5	4.0	18.0	27.0	T.	15.5		65.0
Minot.....			8.0	4.8	5.3	11.4	2.4	3.0		34.9
Minto.....			T.	(*)	(*)	(*)	(*)	(*)		
Mott.....		0.5		2.8	14.5	3.0	2.5	3.5		26.8
Napoleon.....			T.	6.0	5.0	7.0	4.0	13.0		35.0
New England.....		T.	(*)	(*)	6.5	4.0		5.0		
New Rockford.....	(*)	(*)	(*)	(*)	3.0	9.0	0.6	2.5		
New Salem.....		0.5	(*)	3.0	23.0	6.6	3.7	6.8		
Orange.....	0.5		1.0	2.7	3.5	3.5	2.5	4.0		17.7
Oriska.....		T.	1.7	3.5	8.5	4.5		6.0		24.2
Park River.....			5.0	5.5	2.0	(*)		10.0		
Pembina.....			2.5	4.0	2.0	28.5	3.3	(*)	(*)	
Power.....		T.	0.2	5.7	8.5	5.0	2.0	7.0		28.4
Pratt.....			6.0	15.0	(*)	(*)	(*)	T.		
Steele.....	(*)	(*)	(*)	(*)	12.0	9.0	4.5	(*)	(*)	
Towner.....		T.	3.0	(*)	11.0	8.0	3.0	4.0		
University.....			7.0	4.0	9.1	13.8	0.3	7.5		41.7
Wahpeton.....	(*)	(*)	0.2	5.0	7.0	3.0	0.5	2.5		
Walhalla.....		(*)	(*)	8.0	(*)	(*)	(*)	(*)	(*)	
Washburn.....		T.	0.8	4.0	6.4	4.0	0.9	0.7		16.8
Westhope.....	(*)	(*)	(*)	(*)	6.0	(*)	(*)	(*)	(*)	
Williston.....		T.	6.4	2.8	4.9	4.8	2.0	(*)	T.	
Willow City.....			3.0	2.0	4.5	10.0	1.0	4.0		24.5
<i>Ohio.</i>										
Akron.....		0.8	5.5	9.5	5.5	10.0	7.9	3.0	T.	42.2
Amesville.....		0.8	0.5	11.4	8.5	5.1	T.	T.		26.3
Bangorville.....		0.5	4.4	10.5	7.5	7.7	11.5	3.0	T.	45.1
Bellefontaine.....		T.	2.0	16.0	7.5	4.0	4.5	5.4	T.	39.4
Benton Ridge.....		T.	5.0	10.8	4.0	7.0	6.0	4.0	T.	36.8
Bladensburg.....		T.	5.0	(*)	(*)	11.0	9.5	2.0		
Bowling Green.....		T.	5.0	9.6	2.5	5.0	1.5	1.5		25.1
Bucyrus.....		T.	1.0	7.0	8.5	13.0	4.0	4.0		37.5
Cadiz.....		T.	8.9	17.3	10.0	9.5	18.7	5.2	T.	69.6
Cambridge.....		T.	1.0	5.0	11.0	5.0	2.0	2.0		26.0
Camp Dennison.....		T.	0.1	5.2	10.0	4.3	T.	T.		19.6
Canal Dover.....		T.	T.	9.0	6.0	9.5	11.0	T.	T.	35.5
Canton.....		0.2	3.8	10.6	6.9	10.5	9.2	2.4	T.	43.6
Cardington.....		0.5	3.2	(*)	(*)	9.3	4.5	1.4		
Cincinnati.....		T.	0.1	5.1	12.2	3.1	0.1	0.1		20.7
Circleville.....		0.4	T.	5.6	9.8	10.7	0.2	4.2	T.	30.9
Clarington.....		T.	0.1	16.2	6.0	6.0	2.0	0.4		30.7
Cleveland (Weather Bu.).....		T.	10.6	17.1	8.9	10.0	6.1	1.8	T.	54.5
Cleveland (Odenbach).....		0.5	12.0	13.0	6.6	8.0	7.0	0.6		47.7
Columbus.....		0.5	0.6	7.3	13.7	9.4	3.4	2.5	T.	37.4
Columbus Reservoir.....		0.7	T.	4.0	7.0	2.5	T.	2.5		16.7
Conneaut.....		6.0	7.0	30.2	7.5	8.5	4.0	1.0		64.2
Dayton.....		T.	0.2	3.6	13.5	6.4	T.	1.6		25.3
Defiance.....		0.4	1.4	4.5	2.2	3.0	0.8	1.5		13.8

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Ohio—Continued.										
Delaware.....		0.3	0.6	9.2	7.5	5.6	5.0	4.2	T.	32.4
Demos.....		0.5	3.4	11.2	10.5	4.9	10.1	3.7	T.	44.3
Dennison.....		T.	1.2	5.1	9.2	7.8	11.1	0.4		34.8
Findlay.....		T.	1.0	8.0	(*)	8.0	3.0	5.0		
Frankfort.....		T.	T.	1.5	14.0	5.5	T.			21.0
Fremont.....		T.	0.2	10.5	3.0	7.0	1.0	0.5		22.2
Garrettsville.....		0.8	16.7	15.7	7.0	8.0	13.8	3.0		65.0
Granville.....		T.	0.5	9.1	14.0	8.3	3.3	4.5	T.	39.7
Gratiot.....		1.0	1.5	8.0	10.0	5.5	8.7	4.9	T.	39.6
Green.....		T.	T.	12.7	9.0	5.0	0.5			27.2
Green Hill.....		0.3	4.9	9.2	5.5	10.3	9.7	2.5	0.1	42.5
Greenville.....		T.	T.	7.0	7.5	4.0	3.0			21.5
Hedges.....		T.	5.0	18.0	5.0	6.0	4.8	3.0		41.8
Hillhouse.....		1.0	23.0	28.5	8.0	5.5	6.0	1.2	T.	73.2
Hillsboro.....		T.	T.	12.7	14.2	7.3	T.	T.	T.	34.2
Hiram.....		1.0	21.0	16.5	6.5	10.0	12.0	1.5	T.	68.5
Hudson.....			11.0	19.0	(*)	6.5	9.0	(*)		
Ironton.....		T.	T.	15.9	8.8	(*)				
Jacksonburg.....		T.	0.2	16.0	14.5	6.0	T.			36.7
Kenton.....		T.	T.	9.0	8.0	3.0	7.0	2.0		29.0
Killbuck.....					7.5	8.4	6.2	2.2	T.	24.3
Lancaster.....		T.	1.0	3.0	9.2	5.0	T.	T.		18.2
Lima.....		T.	0.1	11.0	5.0	11.0	3.0	2.0		32.1
McConnelsville.....		0.5	1.0	12.5	9.5	3.5	1.6	2.2	T.	30.8
Marietta.....		T.	T.	16.1	9.5	3.6	T.	0.5		29.7
Marion.....		0.5	3.9	9.6	11.8	12.0	5.0	4.2		47.0
Medina.....		2.0	6.0	13.0	8.0	11.0	4.0	2.0	T.	46.0
Milfordton.....		0.5	2.0	7.0	8.5	10.0	10.0	6.0		44.0
Milligan.....		1.0	1.5	6.5	9.8	4.0	1.8	(*)		
Millport.....		0.1	2.6	10.0	6.8	10.0	8.2	0.6	T.	38.3
Montpelier.....		T.	1.5	11.0	6.0	13.0	6.0	(*)		
Napoleon.....		T.	1.5	3.5	4.5	9.0	0.5	2.0		21.0
Nellie.....			T.	8.0	11.5	7.5	6.0	T.		33.0
New Alexandria.....		T.	2.0	16.0	12.0	14.0	26.0	6.0	T.	76.0
New Berlin.....		3.0	11.7	11.0	5.0	10.0	13.0	1.7		55.4
New Bremen.....		T.	T.	9.5	3.8	5.5	1.5	4.0		24.3
New Waterford.....		1.0	14.0	9.0	8.0	(*)	8.5	6.0		
North Royalton.....			16.5	19.0	9.0	6.0	2.0	2.0		54.5
Norwalk.....			T.	12.0	4.0	9.5	2.0	1.0		28.5
Oberlin.....		T.	(*)	11.6	8.0	10.5	(*)	T.	T.	
Ohio State University.....		0.3	0.6	4.4	10.2	6.7	3.6	2.1	T.	27.9
Ottawa.....		T.	1.2	5.8	5.0	10.0	4.8	(*)		
Pataskala.....		0.9	1.2	8.0	9.8	7.2	6.0	4.0	T.	37.1
Peebles.....		(*)	T.	9.0	9.0	3.0	T.			
Philo (Burckholter).....		0.3	0.7	9.5	8.7	5.1	2.2	3.1		29.6
Philo (Hardtla).....		0.4	0.4	4.8	9.5	8.0	3.8	3.9		30.8
Plattsburg.....		T.	2.0	13.0	14.0	5.5	T.	5.0	T.	39.5
Portsmouth.....		T.	T.	8.5	(*)	2.0	T.			
Rittman.....		(*)	T.	3.0	8.6	4.5	11.0	4.0	2.5	T.
Sandusky.....		T.	0.8	7.9	3.6	7.9	2.1	1.0	T.	23.3
Shenandoah.....		0.5	3.7	11.5	7.9	12.0	7.0	3.2	T.	45.8
Sidney.....		0.2	1.8	9.5	8.9	4.2	3.7	2.2		30.5
Somerset.....		0.5	1.0	7.0	11.5	9.0	2.5	3.0		34.5
Summerfield.....		T.	1.0	11.0	8.2	4.8	5.0	5.0	T.	35.0
Syracuse.....		(*)	(*)	0.5	14.0	7.5	3.0	T.	(*)	
Thurman.....		T.	T.	22.0	6.0	1.0	T.	T.		29.0
Tiffin.....		T.	2.2	11.8	5.5	8.0	3.5	1.5	T.	32.5
Toledo (Weather Bu.).....		0.1	2.2	9.1	1.9	7.2	2.1	0.4		23.0
Toledo (Krance).....		T.	1.0	6.5	3.2	4.2	T.	T.		14.9
Upper Sandusky.....		T.		10.7	14.0	11.0	9.0	8.5	T.	53.2
Urbana.....		0.5	0.8	14.2	19.2	9.5	2.7	2.8		49.7
Vickery.....		T.	3.2	11.0	2.7	6.0	0.4	1.6		24.9
Warren.....		1.5	19.3	26.9	6.4	13.7	16.7	3.0	T.	87.5
Wauseon.....		0.3	6.5	12.2	6.2	11.6	3.9	3.1	T.	43.8
Waverly.....		T.	1.2	12.3	13.1	7.7	2.5	T.		36.8
Waynesville.....		T.	T.	6.5	17.0	(*)	T.			
Wellington.....		0.2	3.5	11.5	8.0	(*)	(*)	(*)	(*)	
Wooster.....		0.2	4.5	7.2	7.8	11.0	9.7	3.0	T.	43.4
Zanesville.....		(*)	0.2	6.3	9.5	5.2	2.5	3.0	T.	

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<i>Oklahoma.</i>										
Ada.....						T.		(*)		
Alva.....	(*)			(*)		3.5		(*)		
Apache.....										0.0
Arapaho.....		T.		T.		0.8				0.8
Ardmore.....										0.0
Bartlesville.....				2.0		0.5				2.5
Beaver.....		T.	6.0	1.1	0.1	8.0	3.0			18.2
Blackburn.....				1.0		T.				1.0
Cache.....										0.0
Calvin.....										0.0
Chandler.....					(*)	(*)				
Chattanooga.....										0.0
Chickasha.....									(*)	
Cloud Chief.....			T.			0.7				0.7
Durant.....										0.0
Eldorado.....						T.				T.
El Reno.....	(*)	(*)	(*)	(*)		(*)				
Enid.....							2.0			2.0
Erick.....						0.2				0.2
Fairland.....				1.0	T.	T.				1.0
Fort Gibson.....				T.		T.				T.
Frederick.....										0.0
Gage.....				T.	(*)	(*)	(*)	(*)	(*)	
Goodwell.....		0.2	0.5		T.	9.5				10.2
Guthrie.....				(*)						
Guymon.....	(*)	T.				(*)			(*)	
Harrington.....										0.0
Hartshorne.....										0.0
Heraldton.....										0.0
Helena.....				T.		3.8				3.8
Hennessey.....						2.0				2.0
Hobart.....		T.	T.			T.	T.			T.
Holdenville.....										0.0
Hooker.....		0.2	T.		T.	12.0				12.2
Hurley.....		0.2	T.	T.	0.5	14.3				15.0
Jefferson.....					T.					T.
Kenton.....		T.	T.	T.	T.	8.5	T.			8.5
Kingfisher.....				T.		T.				T.
McAlester.....										0.0
Mangum.....										0.0
Marlow.....							(*)			
Meeker.....							(*)			
Muskogee.....				2.5		T.				2.5
Mutual.....						2.0				2.0
Neola.....				T.		(*)				
Newkirk.....						T.				T.
Oakwood.....		T.		T.		4.0				4.0
Okeene.....				T.	T.	2.1	1.0			3.1
Oklahoma.....				T.		0.2				0.2
Okmulgee.....						(*)	(*)			
Pawhuska.....				0.5	T.	T.				0.5
Perry.....				T.		0.2	T.			0.2
Ravia.....										0.0
Sac & Fox Agency.....										0.0
Shawnee.....						T.				T.
Snyder.....										0.0
Stillwater.....										0.0
Tulsa.....				T.		T.				T.
Wagoner.....				1.0		T.				1.0
Waukomis.....				T.	T.	2.0				2.0
Waurika.....				T.						T.
Weatherford.....				T.		T.				T.
Webbers Falls.....										0.0
Whiteagle.....						3.0	1.0		(*)	
Woodward.....		T.		T.		3.0				3.0

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

MONTHLY AND SEASONAL SNOWFALL, 1910-1911—Continued.

State and station.	1910				1911					Annual.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
<i>Oregon.</i>										
Ashland.....			6.0		18.0	5.0		T.		29.0
Astoria.....					4.7	1.2		0.8		6.7
Baker City.....	(*)	(*)	(*)	(*)	(*)	(*)	T.	2.6	1.0	
Bay City.....					12.5	1.0		1.0		14.5
Blalock.....			T.	T.	T.	T.		(*)	(*)	
Burns.....			17.0	17.0	13.0	7.0	3.0	3.0		60.0
Cascade Locks.....			T.		28.0	4.5		0.5		33.0
Cascadia.....					9.5	6.7		2.3		18.5
Cazadero.....					10.4	6.2		2.8		19.4
Christmas Lake.....			9.5	2.0	8.5	3.1		1.0		24.1
Condon.....			3.0	0.5	6.0	13.5	T.	T.		23.0
Corvallis.....					12.2	0.5		1.0		13.7
Dayville.....			4.5	T.	5.5	13.5	T.		T.	23.5
Doraville.....				0.4	17.1	13.7	T.	5.5		36.7
Drain.....					2.0			1.0		3.0
Echo.....			1.0	1.5	1.5	4.5				8.5
Ella.....			3.0	2.0	3.5	5.0				13.5
Eugene.....					4.0	T.		2.0		6.0
Fairview.....					15.0	1.0		2.0		18.0
Falls City.....			T.		13.0					13.0
Forest Grove.....			1.5		14.0	1.5				17.0
Glendale.....					36.0	15.0		13.0		64.0
Glenora.....					46.5	27.0		4.0		77.5
Gold Beach.....									(*)	
Grant's Pass.....			1.5		12.5	4.5				18.5
Grass Valley.....			14.0	3.0	T.	6.0		(*)	(*)	
Headworks.....			1.5		14.0	9.2		4.0		28.7
Heppner.....			1.2	1.1	5.5	13.7		1.0		22.5
Hermiston.....			T.	1.0		1.2				2.2
Hood River.....			9.0		19.0	2.0	T.	T.		30.0
Huntington.....	(*)	(*)	(*)	1.5	9.8	6.0				
Jacksonville.....			2.0		9.0	6.0		0.5		17.5
Joseph.....			10.0	10.0	4.0	30.5	2.0	10.0	4.0	70.5
Klamath Agency.....			26.0	3.5	22.5	8.0	3.5	13.0	1.3	77.8
Klamath Falls.....			13.5	1.0	27.0	8.2		4.0	1.0	54.7
La Grande.....			2.8	8.0	2.2	23.5	T.	2.0		38.5
McKenzie Bridge.....			1.0	1.5	13.0	(*)		5.5		
Merrill.....			7.0	T.	12.0	5.6	3.0	2.0		29.6
Mikkalo.....			5.0	2.0	6.0	2.0		1.0		15.0
Miramonte Farm.....					6.0			T.		6.0
Mountain Park.....			20.5	3.5	(*)	(*)	(*)	(*)	(*)	
Musick.....		3.0	68.0	81.0	154.5	93.5	11.0	91.5	34.0	536.5
Newport.....					T.					T.
Paisley (near).....			15.0	(*)	21.0	14.0				
Pendleton.....			1.0	0.2	2.0	6.5				9.7
Pilot Rock.....			1.0	2.5	2.5	14.2		T.		20.2
Pompeii.....		T.	57.0	61.0	65.0	56.0	19.0	26.0	32.0	316.0
Portland.....					5.1	0.2		T.		5.3
Post.....			7.5	6.0	12.0	14.0	T.	1.0		40.5
Prineville.....			3.5		9.2	9.7		1.0		23.4
Prospect.....	(*)	1.1	9.5	(*)	33.0	31.0		11.5	3.0	
Ramsey.....	(*)		17.9	7.4	4.6	7.6		1.5		
Range.....			T.		(*)	5.0				
Richland.....			6.5	0.5	3.0	3.7		T.		13.7
Riverside.....			14.0	1.5	12.5	7.0	T.	1.0		36.0
Roseburg.....					6.8	5.3		2.9		15.0
Salem.....					3.0					3.0
Seneca.....		(*)	12.0	5.0						
Siskiyou.....			33.0	4.5	68.0	34.5	7.5	8.5	5.0	161.0
Sisters.....			13.5	1.0	9.0	15.5	1.5	15.0		55.5
The Dalles.....			5.0	1.5	33.	8.0			(*)	
Umatilla.....			T.	T.	1.0	0.3				1.3
Unity.....			7.7	6.0	7.0	(*)		2.0		
Vale.....			7.0		17.0	0.8				24.8
Wallace Orchard.....					9.2	T.		1.0		10.2
Wallowa.....			10.5	5.3	9.2	12.3	0.6	4.3		42.2
Warm Springs.....			4.0		1.0	1.0		T.		6.0
Wasco.....			11.0	3.0	4.0	6.5				24.5
Weston.....			1.5	1.5	4.2	22.5		1.5		31.2
Yonna.....			20.5	0.5	8.2	4.2	0.8	1.0		35.2

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MONTHLY AND SEASONAL SNOWFALL, 1910-1911—Continued.

State and station.	1910				1911					Annual.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
<i>Pennsylvania.</i>										
Aleppo.....		T.	2.0	14.0	7.0	7.0	6.0	2.0		38.0
Clearfield.....		T.	7.5	18.3	1.5	9.0	10.0	3.0		49.3
East Mauch Chunk.....			10.8	15.3	3.5	11.7	12.0	3.0		56.3
Emporium.....		0.4	6.8	12.0	4.5	10.0	7.0	4.4	T.	45.1
Erie.....		4.3	14.4	24.0	11.5	6.0	7.8	2.3	0.2	70.5
Everett.....		T.	T.	9.7	1.5	8.5	9.0	8.5	T.	37.2
Franklin.....		2.0	6.0	13.0	4.0	8.0	11.0	1.7	T.	45.7
Gettysburg.....			1.5	12.4	7.0	12.2	18.5	3.6		55.2
Harrisburg.....		T.	3.0	13.8	1.7	9.4	14.4	1.1		43.4
Huntingdon.....			3.0	15.0	1.0	9.5	12.5	4.5		45.5
Indiana.....			6.3	27.3	11.0	7.7	5.5	8.5		66.3
Irwin.....		T.	2.0	5.2	3.1	10.6	6.2	4.2		31.3
Johnstown.....		0.5	8.3	23.4	5.5	13.2	15.6	7.4	T.	73.9
Kennett Square.....			1.0	10.5	4.0	4.0	9.0	1.5		30.0
Lawrenceville.....		T.	4.0	11.0	4.0	18.5	9.0			46.0
LeRoy.....		0.3	18.0	11.8	5.3	15.2	11.0	6.6	T.	68.2
Lewisburg.....			5.9	25.1	5.0	12.5	8.0	1.5		58.0
Lock Haven.....			2.9	11.5	4.0	12.0	6.3	3.5	T.	40.2
Milford.....			8.0	14.5	T.	17.0	8.0	7.0	T.	54.5
Montrose.....		T.	21.2	16.5	3.0	25.0	10.0	5.0	0.1	80.8
New Germantown.....			3.0	9.0	1.0	9.5	(*)	0.5		
Philadelphia.....			T.	12.5	4.5	8.1	1.4	2.0		28.5
Pittsburg.....		T.	1.6	13.0	7.7	8.6	7.5	5.9	T.	44.3
Reading.....			1.7	15.4	2.7	6.0	6.3	0.9		33.0
Saegerstown.....		7.0	33.0	26.5	2.5	7.5	10.5	6.0	T.	93.0
Scranton.....		T.	16.7	19.2	0.8	11.1	7.7	4.7	T.	60.2
Somerset.....		1.0	8.2	31.5	10.0	16.1	28.0	18.3		113.1
Warren.....		5.0	35.2	23.8	12.0	14.1	22.8	5.0	1.8	119.7
Wellsboro.....		T.	8.5	14.0	3.0	1.2	4.5		T.	31.2
Wilkesbarre.....		(*)	9.0	9.0	(*)	(*)	(*)	(*)	(*)	
<i>Rhode Island.</i>										
Block Island.....			T.	7.3	4.1	11.6	5.0	4.7		32.7
Bristol.....			T.	8.0	0.5	15.0	1.5	4.2		29.2
Kingston.....			T.	7.5	2.5	15.5	7.0	9.0		41.5
Narragansett Pier.....			T.	12.0	3.6	15.2	4.1	6.4		41.3
Providence.....			0.8	8.5	0.4	14.0	4.6	4.9		33.2
<i>South Carolina.</i>										
Blackville.....										0.0
Charleston.....										0.0
Cheraw.....				T.						T.
Clemson College.....										0.0
Columbia.....				T.						T.
Florence.....										0.0
Georgetown.....										0.0
Greenville.....				T.	T.	0.5				0.5
Smiths Mills.....										0.0
Spartanburg.....				T.		2.0				2.0
Trenton.....										0.0
<i>South Dakota.</i>										
Aberdeen.....		T.	T.	2.5	6.5	13.5	6.5	4.0		33.0
Academy.....		T.	T.	10.0	2.0	8.0	0.4	14.0		34.4
Alexandria.....		T.	T.	3.0	1.0	4.0	2.0	(*)		
Ardmore.....				(*)	4.0	4.0	6.0	(*)	(*)	
Armour.....			(*)	8.5	(*)	(*)	2.0	2.5	2.0	
Bellefourche.....	(*)	(*)	(*)	0.5	1.7	0.5	T.	T.		
Brookings.....		T.	1.0	1.5	9.8	3.5	(*)	T.		
Camp Crook.....	1.0	T.	T.	1.1	1.0	0.7	T.	2.1		5.9
Canton.....		T.	T.	0.5	2.0	10.0	T.	1.0	T.	13.5
Cascade Springs.....				9.5	3.2	3.0	3.0	2.5		21.2
Castlewood.....		T.	1.4	2.5	1.9	1.5	0.4	T.		7.7
Centerville.....		0.2	0.5	1.3	0.9	9.3	1.7	13.0		26.9
Chamberlain.....		T.	(*)	7.0	(*)	(*)	(*)	(*)	(*)	
Clark.....		T.	1.0	5.2	9.2	6.0	(*)	6.1		
Cottonwood.....		T.	1.0	3.0	0.5	6.0	T.	T.		10.5
Crow Creek.....			1.2	7.5	1.8	10.7	0.5	(*)	(*)	
Daviston.....	1.0	(*)	T.	T.	1.6	4.5	1.0	2.5		

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<i>South Dakota—Continued.</i>										
Dead wood.....	(*)	5.5	4.7	(*)	4.0	18.0	15.0	13.0		
Deerfield.....		2.3	3.3	3.6	12.9	9.7	8.8	7.2	T.	47.8
De Smet.....		T.	1.0	3.5	4.0	7.0	(*)	2.0		
Dowling.....		T.	0.8	1.0	0.5	2.6	0.5	6.6		12.0
Dumont.....	T.	5.0	6.0	12.0	11.5	23.5	15.5	9.5		83.0
Eales.....	(*)	(*)	(*)	(*)	3.8	7.4	2.8	2.9		
Elk Mountain.....	T.	T.	0.6	6.0	4.5	3.5	1.5	9.5		25.6
Elk Point.....		T.	(*)	1.2	6.6	12.0	1.0	5.0	1.0	
Ellingson.....	(*)	(*)	(*)	(*)	1.1	(*)	(*)			
Englewood.....	T.	4.5	12.5	17.0	15.0	30.0	18.0	16.6	T.	113.6
Eureka.....			T.	2.5	4.1	6.0	2.0	6.0		20.6
Fairfax.....	(*)	(*)	T.	8.0	1.5	7.0	0.2	4.5	(*)	
Faulkton.....		T.	0.5	4.5	3.5	4.5	1.0	T.		14.0
Flandreau.....		0.5	0.2	1.0	8.0	6.0	(*)	5.5		
Forestburg.....		T.	1.0	5.0	3.0	8.3	1.9	(*)		
Fort Meade.....		2.0	4.0	3.3	1.7	7.5	2.6	(*)	(*)	
Gannvalley.....		T.	1.0	10.0	7.0	9.0	2.0	4.0		33.0
Greenmont.....	0.2	9.0	15.0	14.0	11.0	30.5	16.0	15.0	4.0	114.7
Greenwood.....		0.2		8.0	3.0	8.0	2.0	5.6		26.8
Hardy Ranger Station.....	20.0	7.7	18.0	19.0	25.0	6.3	28.0	12.0	T.	136.0
Harveys Ranch.....		1.2	5.2	16.5	11.5	16.0	19.0	5.7	1.2	76.3
Hermosa.....			1.0	3.0	1.5	4.0	(*)	2.0		
Highmore.....		T.	2.0	3.5	1.1	3.5	2.3	1.0		13.4
Hill City.....			(*)	1.2	3.1	8.5	6.0	4.0	(*)	
Hitchcock.....			1.0	(*)	(*)	(*)	(*)	(*)	(*)	
Hopewell.....			0.2	3.0	0.5	5.0	1.5	2.0		12.2
Howard.....			1.0	3.5	5.5	5.0	1.5	5.0		17.0
Howell.....		0.1	1.8	5.4	3.4	7.4	3.1	1.1		22.3
Huron.....			0.6	2.7	1.7	7.4	1.5	0.5		14.4
Ipswich.....	(*)	(*)		3.0	10.5	8.0	1.0	3.0		
Kadoka.....		T.	0.5	2.0	0.6	2.2	0.4	0.3		6.0
Kennebec.....			0.5	6.0	2.0	5.0	5.0	(*)		
Kidder.....	(*)	T.	0.2	2.5	6.5	2.5	T.	4.0		
Kimball.....		T.	0.1	10.0	(*)	(*)	1.0	0.8		
La Delle.....			2.0	6.0	2.0	(*)	5.0	T.		
Lead.....	T.	5.5	6.8	5.5	6.0	24.0	23.0	10.0	T.	80.8
Lemmon.....		(*)	T.	1.5	4.0	T.	T.	3.0	(*)	
Marion.....			T.	2.5	2.2	10.5	T.	2.8		18.0
Marston.....			(*)	3.0	T.	8.0	T.	1.0		
Mellette.....		T.	1.0	2.5	3.1	6.7	3.3	1.1		17.7
Menno.....		0.1	0.2	3.7	2.5	4.5	3.5	6.0	1.5	22.0
Milbank.....		T.	1.7	2.8	10.2	3.5	0.5	4.8		23.5
Mitchell.....			1.0	(*)	6.0	15.0	(*)	1.0		
Mobridge.....	(*)	(*)	(*)	(*)	1.2	3.0	T.	3.0	(*)	
Murdo.....			(*)	1.2	T.	10.5	1.0	2.0		
Oelrichs.....		0.5	(*)	7.0	3.0	4.0	2.0	(*)		
Orman.....	(*)	0.5	1.0	1.6	0.7	0.2		2.0		
Ottumwa.....			T.	4.0	1.0	7.0	(*)	(*)	(*)	
Pierre.....		T.	(*)	1.1	0.4	6.4	0.5	1.4		
Plankinton.....		T.	T.	5.0	6.0	8.5	1.0	T.		20.5
Pollock.....		T.	0.2	3.0	2.0	3.9	0.1	(*)		
Rapid City.....		1.0	1.7	1.9	1.2	4.5	2.0	3.0		15.3
Redfield.....			1.0	1.0	2.0	10.9	(*)	(*)		
Rochford.....	T.	2.8	2.8	3.6	6.2	6.4	14.5	3.0	0.5	39.8
Rosebud.....		2.0	2.0	8.0	12.0	4.5	4.5	(*)	(*)	
Roslyn.....		T.	1.8	4.8	7.1	2.6	0.2	5.8		22.3
Selby.....		T.	T.	2.3	2.3	7.0	(*)	(*)		
Sioux Falls.....		T.	T.	3.0	3.5	9.0	(*)	5.0	(*)	
Spearfish.....		T.	2.0	3.0	6.0	7.0	5.0	6.0		29.0
Stephan.....		T.	0.5	6.0	T.	6.0	0.5	0.5		13.5
Tama.....		T.	0.5	1.0	3.5	5.6	T.	2.0		12.6
Tyndall.....	(*)	(*)	(*)	7.2	5.0	8.8	1.0	3.0	8.0	
Vale.....		T.	1.8	1.4	3.5	2.3	T.	4.0		13.0
Vermilion.....		T.	T.	1.0	1.0	8.0	1.8	4.0	1.5	17.3
Waters Ranch.....	1.5	1.4	3.3	7.6	4.4	9.5	8.6	9.9		46.2
Watertown.....		T.	T.	3.0	9.0	4.0	(*)	4.5		
Wentworth.....			0.2	1.8	6.5	5.2	(*)	2.9	(*)	
Westington Springs.....	(*)	(*)	(*)	(*)	5.2	10.0	0.4	(*)		
White Lake.....		T.	T.	2.0	0.5	4.5		0.3		7.3
Winner.....			(*)	6.0	3.0	(*)	(*)	8.0		
Yankton.....		T.	T.	4.9	4.6	10.6	4.1	4.4	7.0	35.6

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<i>Texas—Continued.</i>										
Dalhart.....						2.0				2.0
Dallas.....										0.0
Danevang.....										0.0
Decatur.....										0.0
Del Rio.....					T.					T.
Denison.....										0.0
Devine.....										0.0
Dialville.....					T.					T.
Dilley.....										0.0
Dublin.....										0.0
Duval.....					0.2					0.2
Eagle Pass.....					(*)	(*)				
Edna.....										0.0
El Paso.....										0.0
Encinal.....										0.0
Fairland.....					0.5					0.5
Falfurrias.....										0.0
Flatonia.....										0.0
Flint.....					T.					T.
Finley.....										0.0
Fort Clark.....										0.0
Fort McIntosh.....										0.0
Fort Stockton.....					T.					T.
Fort Worth.....						T.				T.
Fredericksburg.....					1.0					1.0
Gainesville.....										0.0
Galveston.....										0.0
Gatesville.....										0.0
Georgetown.....					T.					T.
Gonzales.....										0.0
Gorham.....										0.0
Graham.....										0.0
Grand Saline.....										0.0
Grapevine.....						T.				T.
Greenville.....										0.0
Hallettsville.....										0.0
Hamlin.....						T.				T.
Harper.....										0.0
Haskell.....										0.0
Hebbronville.....										0.0
Hempstead.....										0.0
Henderson.....										0.0
Hico.....	(*)	(*)								
Henrietta.....										0.0
Hereford.....		1.5	0.3		T.	5.6				7.4
Hewitt.....					T.					T.
Hillsboro.....			(*)							
Hondo.....										0.0
Houston.....										0.0
Huntsville.....										0.0
Jayton.....										0.0
Jewett.....										0.0
Junction.....										0.0
Kaufman.....										0.0
Kerrville.....					1.0					1.0
Knickerbocker.....					T.					T.
Kopperl.....										0.0
Lagrange.....										0.0
Lamesa.....										0.0
Lampasas.....										0.0
Laparra.....										0.0
Laureles Ranch.....										0.0
Lewis Ferry.....										0.0
Liberty.....										0.0
Llano.....										0.0
Llano Grande.....										0.0
Long Lake.....										0.0
Longview.....					T.					T.
Lufkin.....					T.					T.

REPORT OF THE CHIEF OF THE WEATHER BUREAU.

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State and station.	1910				1911					Annual.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
<i>Texas—Continued.</i>										
Waxahachie.....										0.0
Weatherford.....										0.0
Wharton.....				(*)	(*)	(*)				
Wichita Falls.....										0.0
Wills Point.....										0.0
Winfield.....										0.0
Zapata.....						(*)	(*)	(*)	(*)	
<i>Utah.</i>										
Beaver.....			2.5	12.7	4.5	6.9		(*)		
Corinne.....			T.	0.5	5.0	10.0		T.		15.5
Deseret.....			2.0	3.0	2.0	11.0	5.0	T.		23.0
Emery.....				5.0	4.0	5.0				14.0
Farmington.....			0.5	7.2	31.0	21.0	2.0	3.0		64.7
Fort Duchesne.....			2.0	4.3	1.0	9.2				16.5
Hite.....				7.0		4.0				11.0
Ibapah.....			3.0	17.7	18.5	38.4	34.0	13.2	17.5	142.3
Kelton.....			T.	1.0	1.0	10.0	2.0	(*)		
Levan.....			2.8	8.1	9.8	12.0		2.0	T.	34.7
Logan.....				4.7	22.5	12.5	9.0	7.0		55.7
Manti.....			0.5	7.0	0.5	8.5		(*)	(*)	
Marysvale.....			0.2	9.3	1.8	11.2	0.8	T.	0.6	23.9
Meadowville.....			0.5	0.2	20.0	16.0	19.0	9.0	2.0	66.7
Moab.....				12.0		7.5		T.		19.5
Modena.....			0.1	2.4	2.5	13.2	0.7			18.9
Moroni.....			1.0	5.3	7.0	8.1	0.5	0.4	T.	22.3
Ogden.....			0.3	1.0	(*)	14.0		6.0	(*)	
Payson.....			3.0	9.0	13.0	22.5	(*)	4.0	(*)	
Provo.....				6.0	9.5	12.5	T.	2.0		30.0
Salt Lake City.....			0.1	7.1	9.9	15.0	1.2	T.	T.	33.3
St. George.....					(*)	3.0				
Scipio.....			T.	3.0	T.	10.0	T.	T.		13.0
Strawberry Tunnel.....		T.	12.0	27.0	45.0	28.0	8.5	16.5	14.5	151.5
Sunnyside.....		T.	11.0	9.0	18.0	(*)	5.0		11.0	
Theodore.....			T.	2.0	1.8	11.3	2.0	0.3		17.4
Tropic.....				0.9	4.0	13.0	(*)	(*)		
<i>Vermont.</i>										
Burlington.....		2.9	16.5	18.0	6.8	13.8	18.6	7.2	0.3	84.1
Chelsea.....		1.0	12.0	19.0	13.0	28.0	30.0	8.0	1.0	112.0
Enosburg Falls.....		1.5	11.0	21.5	16.0	23.5	33.5	1.0	T.	108.0
Northfield.....		0.5	13.3	11.2	5.3	28.5	21.4	10.2	T.	90.4
<i>Virginia.</i>										
Big Stone Gap.....			T.	4.5	5.7	T.	1.0			11.2
Blacksburg.....		0.5	T.	7.2	4.2	0.4	5.3			17.6
Burkes Garden.....		4.0	T.	9.0	6.0	T.	2.0			21.0
Cape Henry.....				0.2	4.0					4.2
Catawba.....		T.	T.	5.2	4.0	4.0	2.6			15.8
Charlottesville.....			T.	8.8	3.0	1.4	4.9			18.1
Culpeper.....				16.0	5.0	1.5	7.0	T.		29.5
Dale Enterprise.....		T.	T.	12.0	7.0	4.0	9.0	T.		32.0
Eastville.....			T.	1.0	3.5	3.5	6.0			14.0
Elk Knob.....		0.5	0.5	5.0	4.5	T.	1.0			11.5
Fredericksburg.....			T.	10.5	3.5	3.5	8.0	T.		25.5
Hot Springs.....		T.		5.5	6.2		4.8			16.5
Lynchburg.....			T.	5.5	5.8	0.4	3.9			15.6
Mount Weather.....		T.	2.1	21.1	8.9	7.4	8.7	3.0		51.2
Norfolk.....		T.		0.5	4.0		3.5			8.0
Richmond.....				0.7	2.6	T.	4.0			7.3
Saxe.....					1.0		1.7			2.7
Spottsville.....				0.4	2.2	T.	2.0			4.6
Staunton.....		T.	T.	10.6	3.5	2.0	8.5	T.		24.6
Warsaw.....			T.	9.0	3.0	T.	5.5			17.5
Woodstock.....		T.	T.	16.1	12.5	6.5	8.3	1.0		44.4
Wytheville.....		0.1	T.	4.6	5.0	0.7	1.6			12.0

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	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
<i>Washington.</i>										
Aberdeen.....					18.4	3.5		4.0		25.9
Baker.....			0.5	4.4	32.4	9.5		1.6		48.4
Cle Elum.....			19.0	21.0	26.0	16.0		T.		82.0
Conconully.....			18.5	5.5	25.7	23.0		T.		72.7
Dixie.....		T.	10.5	17.5	41.0	57.0	5.5	15.5	4.0	151.0
Ellensburg.....			9.7	6.4	(*)	2.1				
Goat Lake.....			18.5	44.4	100.5	78.5	39.0	18.5	3.5	302.9
Goldendale.....			8.0	3.0	4.0	4.9	T.	T.	T.	19.9
Kosmos.....				1.5	23.0	13.0		3.5		41.0
La Center.....				T.	4.2	0.1		T.	T.	4.3
Lake Keechelus.....			35.0	(*)	105.2	64.9	4.0	14.0	T.	
Lakeside.....			14.5	6.0	5.5	9.5	2.0	T.		37.5
Moxee.....			8.6	4.3	0.7	3.1	T.			16.7
North Head.....					6.8	0.5		1.0		8.3
Olga.....				T.	3.5					3.5
Olympia.....					9.0			1.0		10.0
Port Crescent.....				T.	9.6	1.9		0.8		12.3
Pullman.....			2.0	4.0	7.7	23.0	2.0			38.7
Rosalia.....			2.0	3.0	5.0	8.4	1.5		T.	19.9
Russells Ranch.....			42.3	20.9	40.7	29.0	1.5	T.	11.0	145.4
Seattle.....					2.1	3.6		T.		5.7
Snoqualmie Pass.....	(*)	(*)	48.0	66.0	137.0	102.0	22.5	37.0	(*)	
Spokane.....			4.3	2.4	1.6	9.8	1.2	T.		19.3
Tacoma.....					7.3	0.5		T.		7.8
Tatoosh Island.....				T.	11.5	2.2	T.	T.		13.7
Walla Walla.....			0.3	0.7	1.5	17.0		1.5		21.0
Waterville.....			23.7	9.8	7.0	11.7	2.0	T.		54.2
Wenatchee.....			22.0	10.5	5.9	9.0	4.8	T.		52.2
<i>West Virginia.</i>										
Bancroft.....		T.	T.	10.0	11.0	0.5	0.5	0.5		22.5
Bayard.....		1.6	14.5	32.2	6.0	11.0	20.5	18.2	T.	104.0
Beckley.....		1.5	2.0	12.0	9.0	(*)	3.0			
Bens Run.....		T.	3.0	24.0	8.0	7.0	2.0	3.0		47.0
Bluefield.....		3.0	T.	(*)	3.0	T.	(*)			
Brandonville.....		(*)	4.5	22.0	4.0	17.0	9.0	0.5		
Buckhannon.....		T.	1.5	16.0	4.5	5.0	2.5	T.		29.5
Burlington.....		T.	T.	13.0	9.0	9.0	16.0	3.5		50.5
Cairo.....			0.5	14.0	6.5	2.5	T.			23.5
Central Station.....		1.0	(*)	12.8	8.0	3.8	1.0	1.0		
Charleston.....		T.	T.	7.5	8.5	T.	T.			16.0
Creston.....			T.	12.5	4.0	2.5	T.			19.0
Cuba.....		T.	0.2	13.5	6.5	3.5	T.	T.		23.7
Elkhorn.....		3.5	1.5	9.5	T.	T.	1.0			15.5
Elkins.....		1.4	4.3	23.1	11.9	12.2	6.4	5.8	T.	65.1
Fairmont.....		T.	T.	14.0	4.0	5.6	4.0	2.0		29.6
Franklin.....		1.0	(*)	10.0	5.0	4.0	8.5	T.		
Glenville.....		T.	T.	12.0	3.0	2.5	T.	0.5		18.0
Grafton.....		1.0	3.0	18.5	10.0	7.5	2.1	T.		42.1
Green Sulphur Springs.....		1.0	0.8	6.2	9.2	0.4	9.0	T.		26.6
Harpers Ferry.....		(*)	(*)	17.9	3.0	5.5	7.5	(*)		
Hinton.....		1.5	T.	3.7	7.0	0.5	4.0			16.7
Huntington.....		T.	T.	15.3	10.3	0.6	0.6			26.8
Lewisburg.....		T.	T.	8.2	7.5	1.0	7.0			23.7
Logan.....		T.	T.	7.0	8.0	T.	1.0	(*)		
Lost City.....		T.	1.0	14.0	9.0	7.0	8.5	4.0		43.5
Lost Creek.....		1.0	1.5	9.2	3.5	4.8	0.8	T.		20.8
Madison.....		4.0	2.5	6.5	(*)	(*)	(*)	(*)		
Mannington.....		0.4	2.9	14.1	4.5	2.6	8.0	3.4		35.9
Marlinton.....		T.	T.	15.0	9.0	3.5	6.5			34.0
Martinsburg.....			T.	13.5	4.0	9.5	7.0	T.		34.0
Moorefield.....		T.	T.	14.0	6.0	5.0	11.0	3.0	T.	39.0
Morgantown.....		T.	7.0	17.0	7.0	T.	7.0	4.5		42.5
Moundsville.....		T.	T.	16.0	6.0	4.0	6.0	2.0		34.0
New Cumberland.....			T.	2.0	3.0	6.0	9.0	T.		27.0
New Martinsville.....				(*)	(*)	(*)	T.	T.		
Nuttallburg.....		0.2	1.6	17.0	13.0	T.	T.	T.		31.8
Parkersburg.....		T.	0.3	19.8	8.5	6.4	T.	T.		35.0
Parsons.....		T.	7.0	38.0	6.0	8.0	11.0	6.0		76.0

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<i>West Virginia—Continued.</i>										
Philippi.....		0.3	3.8	12.6	7.6	6.0	5.8	1.0		37.1
Pickens.....		3.0	15.0	51.0	14.0	18.0	17.0	4.0	T	122.0
Pineville.....		(*)	0.2	(*)	(*)	(*)	(*)	(*)		
Point Pleasant.....		T	T	19.0	7.0	2.0	T			28.0
Powellton.....		(*)	1.0	12.0	7.5	1.1	5.0			
Princeton.....		2.0	2.0	15.0	5.0	2.0	7.0			33.0
Robertsburg.....		T	T	10.0	5.5	1.0	0.5	T		17.0
Romney.....		T	T	11.0	5.0	9.0	8.0	2.0		35.0
Rowlesburg.....		T	6.5	19.9	4.7	6.2	13.6	8.0		58.9
Ryan.....		T	1.5	19.5	10.0	2.9	3.0	T		36.9
St. Marys.....		T	T	12.1	5.0	T	T			17.1
Smithfield.....		T	1.5	18.0	6.0	5.5	4.5	3.0		38.5
Spencer.....		T		10.1	9.5	4.0	2.5	T		26.1
Sutton.....		(*)	4.0	10.0	11.0	7.0	3.0	T		35.0
Terra Alta.....		(*)	(*)	(*)	6.8	12.0	23.6	5.1	T	
Union.....		1.0		(*)	5.0	(*)	(*)	T		
Upper Tract.....		0.5	T	10.0	3.0	2.5	5.0			21.0
Valley Fork.....			(*)	6.5	(*)	(*)	(*)	(*)		
Wellsburg.....		T	0.4	15.7	10.0	11.0	15.0	6.0		58.1
Weston.....		1.6	3.0	18.0	5.8	8.2	4.4	2.2		43.2
Wheeling.....		T	0.6	16.8	7.0	7.8	8.2	1.2		41.6
Williamson.....		1.0		5.8	5.0	0.5	0.5			12.8
<i>Wisconsin.</i>										
Antigo.....		T	4.5	8.5	10.2	5.2	5.3	T	1.0	34.7
Appleton.....		0.8	10.0	15.2	4.2	6.0	6.2	4.2	4.0	50.6
Ashland.....			3.5	12.0	13.5	17.0	6.0	2.0		54.0
Barron.....		0.5	9.5	9.0	8.5	5.5	4.5	5.0		42.5
Bayfield.....		(*)	(*)	24.0	27.0	32.0	(*)	5.0	T	
Beloit.....		T	T	9.5	6.6	7.3	0.3	4.3		28.0
Big St. Germain Dam.....		2.0	8.2	8.5	11.5	9.5	12.5	3.3		55.5
Brodhead.....			0.6	6.2	6.5	10.0	T	5.0	T	28.3
Burnett.....		T	7.5	8.2	10.8	6.2	1.0	6.5	T	40.2
Cecil.....		T	4.4	10.5	13.0	7.0	5.0	3.5	4.0	47.4
Deerskin Dam.....		4.9	5.8	7.8	5.6	4.5	8.7	1.4		38.7
Delavan.....		T	1.5	5.0	4.0	6.0	T	3.5	T	20.0
Dodgeville.....		(*)	(*)	2.5	6.0	6.7	10.8	(*)	(*)	(*)
Downing.....		T	7.5	12.0	7.0	(*)	T	(*)	T	
Eau Claire.....		0.2	8.1	10.2	10.7	6.4	5.7	2.5	T	43.8
Florence.....		T	4.0	5.4	9.0	9.5	8.0	T	1.0	36.9
Fond du Lac.....		T	7.0	10.0	7.0	4.0	2.0	5.0	T	35.0
Grand Rapids.....		T	4.0	16.5	21.5	5.0	10.3	4.0	T	61.3
Grand River Locks.....		T	8.0	10.2	6.0	5.0	1.5	7.5	T	38.2
Grantsburg.....		T	7.2	15.0	5.5	9.0	7.5	7.0		51.2
Green Bay.....		T	8.3	8.6	8.3	3.6	3.5	2.7	2.0	37.0
Hancock.....		T	6.0	8.0	8.0	6.0	4.0	4.0	T	36.0
Hatfield.....		T	6.0	12.5	13.0	(*)	6.0	2.0	0.2	
Hayward.....		1.2	5.0	10.0	12.0	11.0	6.5	1.0		46.7
Hillsboro.....		T	4.5	11.5	11.0	8.0	1.0	7.0	1.0	44.0
Iron River.....		1.0	5.0	5.0	(*)	(*)	(*)	4.6		
Kewaunee.....		T	15.5	16.6	8.0	4.2	8.5	6.1	9.0	67.9
Koepenick.....		4.0	18.0	9.5	12.0	9.0	13.0	3.0	2.0	70.5
Lac du Flambeau.....		5.0	(*)	17.0	7.0	15.4	14.1	3.5		
La Crosse.....		T	1.7	9.7	10.3	6.2	2.4	7.1	5.2	42.6
Lake Mills.....		0.5	2.4	7.0	6.8	6.8	1.1	5.2	0.4	30.2
Lancaster.....		0.5	2.5	6.0	9.5	11.0	2.5	8.0		40.0
Long Lake.....		5.0	9.6	10.5	12.5	8.2	11.4	1.8		59.0
Madison.....		0.2	2.7	5.5	6.4	9.2	0.4	5.5	T	29.9
Manitowoc.....		T	7.0	10.5	3.2	9.0	4.5	5.5	T	39.7
Mauston.....			5.0	9.0	13.0	5.0	(*)	8.0	T	
Meadow Valley.....		2.0	7.0	17.5	11.0	3.0	6.0	4.0	4.0	54.5
Medford.....		1.5	6.0	8.0	12.0	6.0	4.0	(*)		
Menasha.....			7.0	8.8	9.0	4.0	4.5	6.0	2.0	41.3
Menomonee Falls.....		T	1.7	7.0	6.5	8.0	1.2	2.3	T	26.7
Milwaukee.....		T	0.5	4.6	10.2	8.5	0.3	1.1	T	25.2
Minocqua.....		2.5	4.5	12.0	-9.5	9.0	5.5	2.0		45.0
Mondovi.....		T	7.0	11.5	8.0	8.0	6.0	2.5	0.5	43.5
Mount Horeb.....		T	5.0	9.0	5.5	7.0	1.0	7.0	T	34.5
Muscoda.....		T	1.2	4.6	4.9	10.0	0.2	9.0		29.9

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<i>Wisconsin—Continued.</i>											
Neillsville.....		T.	3.5	15.0	10.0	6.0	2.0	2.0	T.	38.5	
New London.....			6.0	15.0	12.0	5.0	6.0	3.0	10.0	57.0	
New Richmond.....		T.	8.0	10.0	11.0	5.0	6.0	7.0		47.0	
Oconto.....			9.5	16.0	14.0	15.0	6.0	T.	6.0	66.5	
Osceola.....		2.0	4.0	6.0	7.5	8.0	0.5	5.0		33.0	
Oshkosh.....		T.	3.0	11.0	8.0	3.0	1.0	6.0	T.	32.0	
Park Falls.....		3.0	3.5	4.0	2.5	7.0	3.3	1.2		24.5	
Pine River.....		T.	7.7	9.4	6.8	6.0	4.5	4.6	2.0	41.0	
Plum Island.....		T.	T.	10.3	17.0	13.0	9.0	6.0	6.0	61.3	
Plymouth.....		0.3	6.5	5.9	4.5	11.5	3.1	5.4	T.	37.2	
Portage.....			(*)	8.0	4.0	7.0	3.0	9.0	T.		
Port Edwards.....			4.0	10.4	18.5	4.5	6.0	6.5		49.9	
Port Washington.....		0.5	3.0	11.5	13.0	10.3	1.5	6.0	0.5	46.3	
Prairie du Chien.....		T.	T.	5.8	9.0	10.0	1.0	9.0	T.	34.8	
Prentice.....		0.5	12.2	(*)	(*)	7.0	7.4	8.2	0.2		
Racine.....		T.	T.	(*)	(*)	8.4	0.5	2.1	T.		
Rhineland.....		1.5	10.9	10.0	10.0	9.3	6.7	1.0	T.	49.4	
Ripon.....		T.	5.3	11.0	7.2	5.5	0.5	5.0	T.	34.5	
Sheboygan.....		T.	5.5	11.0	9.0	8.0	4.5	13.0	T.	51.0	
Shullsburg.....		T.	1.8	4.5	9.0	9.5	4.5	2.0	T.	31.3	
Solon Springs.....		1.0	(*)	8.5	5.0	17.0	3.8	3.0			
Spooner.....		1.5	4.5	9.0	5.0	6.0	3.0	2.5	T.	31.5	
Stanley.....		T.	4.2	9.0	9.0	4.8	4.7	(*)	1.0		
Stevens Point.....			2.0	15.0	15.0	2.5	(*)	2.0	2.0		
Sturgeon Bay.....		T.	15.0	14.0	16.0	8.0	3.0	3.5	9.0	68.5	
Sugar Camp Dam.....		7.0	9.2	8.5	9.5	12.5	6.0	1.5		54.2	
Superior.....			8.5	5.2	5.5	9.5	8.4	4.2		41.3	
Twin Lakes Dam.....		6.0	10.0	8.5	2.5	7.8	11.2	1.8		47.8	
Valley Junction.....		1.0	7.0	15.6	8.4	4.4	2.0	7.2	3.0	48.6	
Viroqua.....		T.	2.0	10.5	8.5	7.5	1.5	9.5	1.0	40.5	
Vudeseare.....		5.5	11.5	16.4	16.2	10.5	22.0	3.5	0.5	86.1	
Watertown.....		T.	2.5	10.5	10.5	10.3	T.	7.0	T.	40.8	
Waukesha.....		T.	2.2	8.4	3.0	11.5	0.5	2.8	T.	28.4	
Waupaca.....			7.0	15.2	14.2	4.5	9.8	4.0	3.0	57.7	
Wausau.....		T.	3.0	9.9	(*)	4.0	7.5	1.0	T.		
Weyerhaeuser.....		0.5	10.4	13.4	10.0	5.5	10.7	4.7		55.2	
Whitehall.....			3.0	14.0	10.5	3.0	5.0	3.0		38.5	
<i>Wyoming.</i>											
Afton.....			6.5	6.5	17.5	11.5	6.0	12.0		60.0	
Alta.....		T.	4.0	7.4	9.6	39.9	6.3	9.0	13.7	8.5	98.4
Barnum.....			8.0	2.0	5.0	7.0	5.0	T.	9.0	36.0	
Cheyenne.....		0.4	2.8	7.1	5.1	5.6	1.4	10.6	T.	33.0	
Chugwater.....		T.	2.0	6.0	10.5	6.0	4.0	9.0		37.5	
Clark.....		T.	T.	0.8	T.	19.5	1.5	1.0	8.5	31.3	
Cokeville.....				3.5	14.0	21.0	15.5	(*)			
Dome Lake.....		(*)	(*)	18.0	5.0	33.5	9.5	12.0	30.0	16.5	
Dubois.....		T.	0.5	T.	6.0	8.0	2.7	4.5		21.7	
Eatons Ranch.....		4.0	3.0	5.5	6.2	27.0	21.0	2.0	11.5	80.2	
Echeta.....			(*)	2.0	4.5	12.2	3.0	1.0	6.0		
Elk Mountain.....			2.0	2.0	38.0	45.0	43.0	27.0	22.5	19.5	164.8
Ervay.....			13.0		3.0	5.0	15.0	6.5	5.0	47.5	
Evanston.....			1.0	T.	4.0	11.0	13.0	12.0	7.0	2.0	50.0
Fort Laramie.....				T.	2.7	7.0	16.0	0.8	(*)		
Gillette.....		T.	T.	3.0	4.7	6.5	4.0	3.2	8.7	30.1	
Green River.....				1.0	2.0	5.0	15.2	(*)	(*)		
Hunters' Station.....		5.0	8.0	16.0	7.0	29.0	9.0	9.0	23.0	6.0	112.0
Jireh.....			3.0	1.0	6.5	5.5	2.0	3.5	9.0	2.0	32.5
Kirtley.....					5.0	9.5	4.0	3.0	6.0	27.5	
Knowles.....		1.5	2.8	7.5	6.7	4.0	5.9	14.4	11.4	54.2	
Lander.....		T.	2.0	T.	T.	2.9	27.5	1.6	4.8	T.	38.8
Laramie.....			0.4	0.6	3.2	9.0	1.5	2.0	10.3		27.0
Lolabama Ranch.....				6.5	1.5	31.0	1.5	4.0	5.0	2.0	51.5
Lovell.....		T.		2.5		1.5	T.		2.0	6.0	
Newcastle.....		T.	T.	T.	6.0	7.5	7.0	4.0	3.5	T.	28.0
Pathfinder.....			T.	1.0	3.0	3.5	8.0	5.0	17.0	2.0	39.5
Pinedale.....				10.0	1.0	5.8	4.5	4.8	(*)		
Powell.....				0.2		2.5			0.2	0.5	3.4
Rawlins.....			3.4	1.5	7.5	15.7	25.2	6.2	2.0	5.0	66.5

