U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

REPORT

OF THE

CHIEF OF THE WEATHER BUREAU

1922-1923

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LETTER OF TRANSMITTAL.

UNITED STATES DEPARTMENT OF AGRICULTURE,
WEATHER BUREAU,
Washington, D. C., September 10, 1923.

SIR: I have the honor to submit herewith a report of the operations of the Weather Bureau during the fiscal year ended June 30, 1923.

Respectfully,

C. F. MARVIN,
Chief of Bureau.

Hon. HENRY C. WALLACE,
Secretary of Agriculture.

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PART I.

ADMINISTRATIVE REPORT.

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REPORT

OF THE

CHIEF OF THE WEATHER BUREAU.

A new significance is attached nowadays to the weather factor in all human conduct and operations. For centuries a topic often convenient to fill lulls in conversation and for other purposes, the present and prospective weather for a continent, almost for the whole world, is now spread before the public twice a day in all the newspapers, weather maps, and a multitude of bulletins and advices. The United States leads the world in the utility, practicability, and extent of this public service, and even the smallest progressive nation recognizes that an organized public weather service is now quite as much a necessity as, say, a postal service or a police force. This is a growth and development of the past 50 years. In the United States the general public takes the work of its Weather Bureau more or less as a matter of course. In early years its forecasts and prognostications were not taken very seriously, and its popular sobriquet of "Old Probabilities" was suggestive of the humorous estimate in which its work was generally held. That was when the bureau was a very young institution, literally in its childhood. A historian telling the life story of the bureau can easily discern its progress into sober youth and manhood. With this came a period when the public viewed its pretensions and accomplishments (or failures) with some seriousness. However, with small sympathy for the bureau's forecasters, and less understanding of the difficulties of their tasks, storms of complaints for failures prevailed throughout the land. These are written in the columns of the public press throughout the closing years of the last century.

Recognizing its limitations, undismayed by the onslaught of its critics, confident of the wonderful possibilities of its useful public service and its ability to make it worth while to the Nation—to make its work pay back to the Nation in economic benefit many hundreds of dollars for one expended on the maintenance of the work—the bureau, through its technical staff of loyal and patriotic public servants, struggled on, bettering and extending the service little by little and in many ways. What does the historian who studies the press and weather bulletins of the present day find with respect to this work? Every paper carries the message of present and prospective weather, and for those who need fuller details special bulletins convey everything known and ascertainable. The shippers of perishable foods and products are told of the hot and cold waves their shipments will encounter en route to any destination. To the great centers of population this foreknowledge permits the saving of many thousands of dollars annually in losses either of products or by damage claims, or both. Severe cold waves, heavy snows, and general storms overspread extended regions of the country time and again each year. The newspapers carry well in advance timely details of these occurrences, and livestock is sheltered, provisions made for maintaining traffic, snow removed without embarrassing blockades, and every precaution taken to minimize the ill effects which would overtake every community visited unawares by these atmospheric phenomena. Orchards are protected from frosts, and fruits and agricultural crops are saved and matured under the prompt and helpful advices of the meteorologist. In the flooded areas of the great waterways advices are given many hours, often days, and sometimes weeks in advance of the crest stages, generally to the fraction of a foot which the flood will attain. Such floods, in changing intensities, are annual features of the river channels, and the service is performed when the need arises, year after year. Only the merchants, the engineers in control of river operations, and the agriculturists

whose acres are subject to possible inundation are able to speak from personal experience of the accuracy and value of the flood warnings of the bureau. These serve to minimize the losses and destruction which, without forewarnings, would become a calamity. Meteorology and radio communication have literally transformed the navigation of the sea from a great peril to a state of relative safety, especially in coastal waters and on the high seas in reach of the daily broadcast of weather reports from coastal stations. Cargo and even passenger ships now shape their movements on weather reports. During the hurricane season of the southern seas we may safely say a captain would not leave port without the latest weather advices, if conditions were menacing, any more than he would leave without his compass or some other essential of navigation. On the Great Lakes vessels are often compelled to make shelter or tie up at dock during stormy conditions. It has been stated that any delay of this character entails an economic loss of from $50 to $100 per hour per vessel. Ignorance of the status and progress of such storms on the part of the navigators leads to an embarrassing dilemma. To leave shelter too soon is to incur hazard of storm damage. To delay unnecessarily is to suffer excess of per-hour loss. The local official of the Weather Bureau steps in at this point and with his command of the weather situation he is able to broadcast advices to shipping which literally save many hours of ships' time with practically no losses in safety and security. Here, again, only those actually profiting by this useful service of the bureau are aware of its great economic benefits.

With the advent of the practical navigation of the air a whole new service is now demanded, a service of flying-weather forecasts and weather advices to aviators. This compels the bureau to extend its observations and measurements above the surface into the free air, which is being done in a very limited way at the present time by means of kites and little so-called pilot balloons.

The historian following the growth of the bureau to its present 50 years of maturity may find in the public press and like sources these and many more detailed accounts of the useful work being done.

The confidence of the public at the present time in the forecasts, warnings, and advices of the bureau has been expressed over and over again in print and statement. Evidence of it is found, moreover, in the urgent appeals from many interests and many localities for extensions and new features of service.

It need not be said that all such activities require expenditure of public funds. Instruments must be purchased and maintained in operation, offices rented, and many expenses incurred which to-day are much in excess of the same costs before the war. If we place the population of the United States, including all outlying possessions except the Philippines, at only 100 millions, 2 cents per annum from each man, woman, and child would more than pay the entire costs of maintaining the Weather Bureau work. The time has come when, with the prevailing high costs, the bureau is unable fully to maintain its work, much less meet increasing demands for service, with its present facilities. Practically every one of its more than 200 field stations is operating under the minimum number of personnel, often in crowded offices, and with no flexibility to meet temporary losses from sickness, absence on leave, and unfilled vacancies. What happens is overtime hours of work and loss of vacations, with corresponding fatigue, discouragement, dissatisfaction, and inefficiency. In these post-war times of insistent effort at curtailment of public expenditures and the securing of the maximum of efficiency and economy in Government administration, the Weather Bureau feels it can invite the closest investigation of its status. If anyone supposes the maximum return is not being given him, let him visit any one of the principal stations and ascertain for himself its program of work and service, and the low salary scale which has prevailed for years because of rigid statutory limitations and peculiar conditions of compensation established in this bureau years before the war and still continuing. Increases are necessary to maintain and extend this useful service.

The annual program and routine of the public service of the Weather Bureau is not a heritage handed down to us from the distant past or even from the last generation. It is conspicuously a creation and development of the leaders and seniors in its present personnel, including the great contributions from a small number of faithful men and brilliant meteorologists who have passed beyond. We are the generation which is passing on to our successors a highly organized and

developed service. Our task, our responsibility, is to recruit and train those who are to carry on and perfect this work in the future. This will not be possible unless the salary scales and readjustments which already have been worked out by the reclassification agencies are granted. Until that is done few college-bred men and students of science, equipped intellectually to meet the requirements, will be attracted from other lines of endeavor.

When that pay scale does become operative we may hope to secure applicants for our vacancies, among whom will be those qualified for the most difficult tasks of professional weather forecasting. We must not overlook the inexorable principle that the more successful and accurate the service of professional forecasting becomes the more exacting and expectant become the public demands.

At the present day professional meteorology furnishes a fascinating and alluring career for any student interested. The sequence of weather conditions and the investigation and formulation of its laws are not to be excelled in any scientific pursuit for infinite variety of aspect, perplexing difficulties, and alluring interest.

Meteorologists are on the threshold of new discoveries in the domain of forecasting. The public receive with respect and confidence the forecasts of storms and weather for a few days in advance, but they are not satisfied that we stop at that point. Letter after letter is received from all sides asking the bureau for forecasts for seasons, for months, and even years ahead. The only answer in all such cases is that the bureau knows of no sound physical laws by which such forecasts can be made with any promise of success. It will not jeopardize the confidence it has won from the public by undertaking to do a thing it can not do well and upon a scientific basis.

There are a few perhaps more deeply versed in some other science than meteorology, such as astrophysics, sociology, geology, economics, etc., who have essayed to claim discoveries upon which a species of long-range forecasting is possible. The professional meteorologist and forecaster, however, is inclined to view such enthusiasts as irresponsible for the successful verification of such forecasts, as overoptimistic, or as bold and daring pioneers who possibly may blaze a way through the wilderness only to leave to others the difficult task of establishing sure and safe communication.

Conservatively, however, this much may be said of long-range forecasting: No scientist has or can demonstrate, I believe, that the making of weather predictions of a general character for a considerable period of time in advance transcends any basic laws of nature or is inherently impossible. That which is not *impossible* must be *possible*, and let this be the justification of those who seek to advance the science and art of meteorology in this difficult field.

FORECAST SERVICE.

Each year now adds new demands for special forecasts and service in connection with outdoor exercises, entertainments, fairs, aviation meets, airplane flights, etc., as the confidence of the general public grows in the service the Weather Bureau is able to give. All of these demands were met and many expressions of appreciation of service rendered were received from the beneficiaries. The forecasts issued twice daily for all sections of the country and warnings of frosts, cold waves, storms, and heavy snows, whenever conditions warrant, all of which are widely and effectively distributed through newspapers, by telephone, telegraph, radio, maps, bulletins, cards, and other means, meet general requirements; but the rapidly increasing utilization of weather information by many business industries is resulting in requests for more special forecasts and direct service. The calls for such information by telephone and telegrams heavily tax the ability and facilities of the bureau. Many field offices respond to a hundred or more telephone calls a day under normal weather conditions and several times as many when unusual or destructive conditions are indicated. A considerable portion of these calls require special consideration and attention. There are nearly 200 field offices to which the public has personal and telephonic access, and the volume of special service that is given by this means alone is enormous. These calls come for the most part from business men whose interests are affected in one way or another by the weather.

One incident will illustrate the extent to which the telephone is used in serving the people by direct contact. Announcement had been made by the Weather Bureau of a hurricane in the Gulf of Mexico which was approaching the Texas coast. The manager of the telephone company in one of the coast cities reported that during the 24 hours succeeding the warning slightly more than 200,000 telephone connections were made through his office, of which number more than 100,000 were for weather information. It was necessary to assign seven operators in addition to the regular force to handle the calls.

Fruit spray and harvest weather forecasts.—This trial forecast service, which has been conducted in New York State in the aid of spraying operations in the apple-growing districts, and special forecasts in connection with harvesting, were continued during the past year in cooperation with local agricultural agencies. It was necessary to confine the work to practically the same limited areas as last year because of lack of funds, although State organizations arranged to distribute the forecasts in some additional counties without further cost to the Weather Bureau. As heretofore stated, it will not be possible to extend these services to other areas and States and to place the project on as effective basis as its great importance justifies until such time as adequate funds are provided therefor.

Hawaiian forecast service.—Since 1918 forecasts have been issued at Honolulu for the benefit of shipping in waters contiguous to the Hawaiian Islands. This service, although handicapped because of paucity of ship reports on which the forecasts largely were based, was very successful and met with commendation from marine interests. In the spring of 1923 the service was greatly improved through the cooperation of the Navy Department, in transmitting to Honolulu daily radio messages containing additional ship reports and current observations from 16 stations along the Pacific coast from Alaska to southern California. These additional reports, together with those from Midway Island, have enabled the Honolulu forecaster to chart general barometric-pressure distribution and weather conditions in the Pacific Ocean east of the one hundred and seventieth meridian and have greatly facilitated the issuing of more accurate forecasts for the Hawaiian Islands district.

Alaskan service.—An organized unit of the Weather Bureau has been in operation in Alaska since 1916, with headquarters in Juneau. A large part of the activities have been devoted to the securing of records from all accessible portions of the Territory for climatological purposes and the maintenance of stations for the taking and telegraphing of observations for forecasting requirements in the States. Twice-daily observations are obtained from 11 stations with a gratifying degree of regularity by means of radio, telegraph, and cable (in most cases a combination of the three). The active and cordial cooperation of the Signal Corps of the Army and the Office of Communications of the Navy was essential to the success of this service. These reports are of inestimable value in the general forecast work of the bureau, especially in the issuing of storm warnings for the Pacific coast and cold-wave warnings for the Middle and Western States.

It is estimated that the value of perishable products saved as the result of cold-wave warnings issued last winter for the Chicago district alone exceeded $10,000,000, although the winter was not an unusually severe one. The district forecaster, in commenting on these estimates, stated that it would have been impossible to issue these warnings so timely and accurately if no reports from Alaska had been available. The estimates were for the Chicago district alone. Many other commercial districts in which the Alaskan observations were an equal factor in issuing cold-wave warnings therefor were similarly benefited. This is cited to indicate the tremendous economic value that the service maintained by the Weather Bureau in Alaska is to the commercial and marine interests of the United States.

During the past years daily forecasts have been made only for the Juneau district of southeast Alaska. The Government railroad from Seward, on the Pacific coast, to Fairbanks, in the Yukon Valley, a distance of 470 miles, was completed during the past year. This railroad furnishes easy travel and accessibility to the most extensive and richest agricultural region in the Territory, and its completion created a demand for a forecast service. Such service was begun

on January 2, 1923. The forecasts, made in the early forenoon each day, Sundays excepted, are cabled from Juneau to Seward, and are distributed by telegraph along the railroad. They are also further distributed by telephone and by publication in newspapers published at Anchorage and Fairbanks. The forecasts cover a period of 36 hours in advance and are for the Matanuska-Susitna and Tanana Valleys and contiguous coasts and the regions traversed by the Government railroad. Officials of the railroad stated that the forecasts during the winter months were of much assistance in keeping the road open and in the making of preparations for removing snowdrifts from deep cuts.

An incidental part of this forecast service was the establishing of reporting meteorological stations at Fairbanks, Anchorage, and McKinley Park, and the transferring to Cordova of the station formerly located at Valdez. One of these stations, McKinley Park, is located in the Mount McKinley National Park, the eastern border of which extends for 30 miles along the railroad. The park contains the highest mountain peak in North America, abounds in magnificent scenery, and is likely to be one of the great attractions to tourists from the United States. The forecast service is designed to be of benefit to these visitors.

RADIO DISTRIBUTION OF WEATHER FORECASTS AND INFORMATION.

The distribution of forecasts, warnings, and weather information by radio was covered in some detail in the previous annual report. This work continued during the past year along the same lines, but more effective and widespread distribution was accomplished. Beginning September 1, 1922, arrangements were made with the United Fruit Co. for broadcasting and disseminating twice daily special weather bulletins from its radio station on Swan Island, for the benefit of shipping in the Caribbean Sea. These bulletins consist of wind and weather forecasts for western Gulf of Mexico (west of longitude 90°), eastern Gulf of Mexico (east of longitude 90°), and for the Windward Passage. Whenever conditions warrant, the forecasts are preceded by advices and warnings regarding any storm or hurricane that may be in progress and of "northers" during the winter months. During the hurricane season, weather observations taken at 8 a. m., seventy-fifth meridian time, at 10 stations located in Cuba, the West Indies, and on the eastern coast of Central America are added to the morning bulletins.

Another feature of the service from Swan Island is that signals consisting of a red pennant by day and a red light by night are displayed from the radio tower to indicate that information concerning a hurricane, a storm, or a "norther" is in possession of the radio operator, which can be obtained by boat call ashore. This service is for the special benefit of ships not equipped with wireless, although any ship so equipped may obtain the information by radio call.

Although the number of commercial and private broadcasting stations that cooperate with the Weather Bureau in disseminating forecasts, warnings, weather and crop information, etc., remains about the same, there has been a material increase in the effectiveness of the service. Cooperation with a number of small stations with limited range was discontinued and several large and more powerful stations added. To meet popular demands the information sent out by radiophone from several stations has been amplified, and now includes river forecasts and stages, conditions of highways as affected by the weather, effect of weather on crops, weather reports from the principal crop areas, special forecasts for the guidance of farmers in harvesting, etc. In many cases forecasts for several States are now broadcast from a single station. The gradual discontinuance of the smaller and less powerful stations has left the bureau with a chain of well-distributed and reliable stations, from which hearty and continued cooperation may be expected. They are so located that practically all sections of the country are assured of opportunity to obtain the forecasts satisfactorily and directly. It is impossible to approximately estimate the number of people being served in this way. In addition to the hundreds of thousands of receiving-set owners who receive the forecasts by radiophone, large numbers of whom can obtain them in no other way, many repeat them to their neighbors by telephone. This latter form of service has become so potential that arrangements are in hand for a definite form of organization which will replace the telegraphing of forecast messages now sent to centers

for distribution. It is expected that more effective service will be accomplished thereby and that considerable economy will result.

Broadcasting by radiophone from the Arlington naval radio station (NAA) of weather forecasts and warnings for each of the States comprised in the Washington forecast district was inaugurated February 15, 1923. Broadcasts are made three times daily—at 10.05 a. m., 3.45 p. m., and 10.05 p. m., respectively, on a wave length of 435 meters. A general forecast covering the entire district and such storm and flood warnings as are issued for any portion thereof are included. On Saturdays there is included in the 3.45 p. m. broadcast the weather outlook for the ensuing week, Monday to Saturday, inclusive, for the North and Middle Atlantic States, the South Atlantic and East Gulf States, the Ohio Valley and Tennessee, and the region of Great Lakes. On Wednesdays, March 15 to November 30, inclusive, a summary giving the effect of the weather on crops during the preceding seven days, ending at 8 a. m., Tuesday, is given in the 10.05 a. m. and 7.45 p. m. broadcasts. A feature of the service from Arlington, which provides for dissemination of the weather forecasts immediately after they are issued, is that the announcements are made directly from the Weather Bureau office in Washington, which is connected by telephone with the radiophone transmitting apparatus at Arlington, Va.

STORM-WARNING SERVICE FOR THE NORTH ATLANTIC OCEAN.

The need for a storm-warning service for the North Atlantic Ocean was quite conclusively demonstrated during the past winter. Not for many years were the cyclones in that region so intense and so frequent. They caused delayed voyages, much damage to ships and cargoes, and distress to passengers. The experiences of vessels caught in these storms occupied much space in the public press. The following is quoted from an editorial in the Philadelphia Public Ledger of January 8, 1923, in reference to storms in the North Atlantic.

> One naturally may ask: What are we going to do about the cyclones in order to lessen the danger to navigation and to increase the comfort of the passengers? It will, for obvious reasons, be impossible to divert the storms to other courses or to diminish their severity. The only possible thing to do is to give warning of their presence, their intensity, and their direction of travel that vessels may steer clear of regions of violent winds. This can be done, as has been demonstrated by meteorological work on board the French steamship *Jacques Cartier*, which during its last several trips on the Atlantic has acted as a floating meteorological forecast and distributing center.

The Weather Bureau has followed with much interest the pioneer work of the French steamship *Jacques Cartier*, referred to in the editorial. This ship is engaged in general freight carrying and is commonly in service between European and American ports. Its distinctive feature is that it is also used as a school for the training of officers for the merchant ships of its owning company, about 50 cadets being continually under instruction. The training course includes all phases of navigation, commercial and international marine law, astronomy, and a thorough course in theoretical and applied meteorology. A weather-forecast and storm-warning service is conducted as an incidental part of the instruction in meteorology. The latter project has the cooperation and support of the French Meteorological Service. The ship makes about three voyages a year, mostly to southern ports. Consequently it renders only intermittent service and is only occasionally on northern routes, for which there is the greatest demand and need for weather forecasts and information. The forecasts issued from the *Jacques Cartier* are based upon United States Weather Bureau bulletins containing observations from stations in the United States and Canada, upon similar European reports broadcast from the Eiffel Tower in Paris, and upon reports collected from ships at sea. The forecasts and warnings are distributed by radio twice daily for the benefit of ships of all nations that are within range.

The Weather Bureau received an invitation to have a representative take passage on the *Jacques Cartier* for the purpose of observing and reporting on the meteorological work conducted thereon. It was accepted, and last spring the supervising forecaster of the Weather Bureau made a trip on the ship from the United States to France and return. He reported that the work was an unqualified success; that its accomplishments demonstrated quite conclusively that a forecast service for the ocean is feasible, of great economic value, and that there is much need therefor, especially on the North Atlantic.

Continuous service of this character would require the utilization of at least three vessels and would involve no interference with their regular voyages and traffic. Continuous service is necessary to keep vessel masters informed at all times as to the wind and weather conditions along the routes they are traveling; advise them as to the location, intensity, and direction of movement of storms which might cause damage to ships and cargoes or at least retard progress; enable them to avoid such storms as far as possible; enable them to lay out ship work en voyage and to take advantage of fair weather and smooth seas for painting and other outside work; give them information of wind and weather conditions to be expected at ports of destination, thereby preventing unnecessary delays, and in other ways provide useful and advantageous information.

The plans for such service have been worked out and submitted to the United States Shipping Board. They have met with approval of that organization, which has offered cooperation in the way of providing facilities on the necessary number of Shipping Board vessels running regularly on the northern routes between the United States and Europe. The bureau is alert to the inauguration of some service of this character at the first opportune occasion.

RIVERS AND FLOODS.

Floods.—The outstanding floods of the year were those in the Arkansas River from eastern Kansas to the mouth, the Neosho River of Kansas and Oklahoma, and the Cimarron and North Canadian Rivers of Oklahoma. Four weeks of almost continuous and frequently excessive rains brought about these floods, and the crest stages were as a rule, higher than any previously recorded. Coming as they did at a season of matured wheat and growing corn and other crops and covering in southeastern Kansas and northeastern Oklahoma alone nearly 300,000 acres of highly productive lands, the floods caused loss and damage, very incompletely reported, to the value of $27,884,200, of which by far the greater portion was in crops, matured and prospective. During the great Mississippi Valley floods of 1922 the total losses as reported were $17,087,790, nearly $11,000,000 less than in the Arkansas and Canadian Valley floods, but the former flood came before the planting season had well set in, and, furthermore, the lands were protected by high levees.

No flood warnings, however accurate and timely, can prevent loss of crops and damage to fixed property, but movable property, especially livestock, can be secured, and it is a pleasure to say that during this Arkansas Valley flood livestock and other property to the value of $1,350,000 were reported as having been saved by the flood warnings of the Weather Bureau.

The total reported flood losses during the year were $36,591,362, while the value of portable property saved by flood warnings was given in admittedly incomplete returns as $4,240,465.

Administrative features.—Changes in organization and administration during the year were few and not of great consequence. Several stations of observation were discontinued and others established with decreased cost of operation.

While the river service east of the Missouri is virtually sufficient for present needs, the reverse is the fact for the great territory to the westward. The natural and steady expansion of the great agricultural and commercial interests, together with the attendant increase in population, reasonably requires a proportionately increased service if the legitimate requirements of the people are to be fulfilled. We need hundreds, yes thousands, of additional river stations. The cost of a rainfall station is about $12, with practically no maintenance cost except depreciation of equipment. The original cost of a river station will average about $100, with an annual maintenance cost of about $175. Owing to the present program of economy no increases of consequence are contemplated at this time.

For several years the mountain snowfall service has been in need of a complete reorganization. This service is maintained in the mountain regions of the far west in order to provide farmers and others reliable information as to the amount of water that may be relied upon each year for irrigation and hydroelectric purposes, and the constantly increasing demands for more accurate and comprehensive service have exceeded our ability to supply under present conditions. Intensive work of the most approved character is highly necessary but must await the appropriation of the requisite funds.

Research work.—During the year schemes for forecasting river stages and floods have been completed for the Willamette River system of Oregon, the Connecticut River, and the Brazos River of Texas. Other schemes will be undertaken as time will permit, mainly for the smaller rivers, as those for the larger rivers and their tributaries are virtually complete, although some need revision from time to time.

AGRICULTURAL METEOROLOGY.

The regular weekly summaries of weather conditions and their effect on the advance of vegetation and farm operations were published, as during the preceding year, through the medium of the department bulletin entitled "Weather, Crops, and Markets." During the crop-growing season the weekly corn and wheat region bulletin was continued at Chicago, and a similar bulletin issued at New Orleans covered conditions in the Cotton Belt. The various section centers also issued weekly State summaries as usual, in most cases throughout the year.

A demand for the extension of the cattle-region service over important western grazing districts continued. Extension of service should also be made to some important grain States in the corn and wheat region, but increases in funds are needed for these extensions.

FRUIT FROST WORK.

This service is of great value to the citrus growers of southern California, who are strongly organized to combat frost conditions and accomplish the saving of much fruit during periods of critical weather conditions. The minimum temperature forecasts and special frost warnings during the current year were remarkably accurate. The various fruit growers' exchanges cooperated extensively with the bureau during the past year in giving financial and other assistance.

After the close of the frost season in southern California, the special bureau representatives rendered excellent service in the San Joaquin Valley (Fresno-Lindsay district), the Santa Clara Valley (San Jose district), the Napa Valley (Winters district), the Rogue River Valley (Medford district) and in the fruit sections of eastern Washington.

Other fruit frost activities were conducted during the year as follows:

New Mexico, Roswell.—Much interest was shown in the work, and nearly all orchards are equipped with frost-fighting devices.

Arizona, Yuma.—A temperature survey was continued primarily in the interest of the citrus industry in this vicinity, which is a growing one.

Colorado.—Fruit-frost work continued in the Gunnison and Uncompahgre Valleys in the vicinity of Delta and Montrose, Colo. (Denver district), the Colorado River Valley in the vicinity of Grand Junction, and in the Canyon City fruit district (under Pueblo). The work was conducted in a satisfactory manner, and the minimum temperature forecasts and special frost warnings were satisfactorily verified.

New Jersey, New Lisbon.—The work in this district was maintained by the official in charge at Philadelphia, Pa., but no special representative was assigned to New Lisbon.

Kansas, Wichita.—The three stations recently established in this district were maintained during the year.

Florida.—Fruit-frost work was continued at the same centers where it was in operation last year, namely, Jacksonville, Pensacola, and Tampa, the work being conducted by the maintenance of special stations along practically the same lines as previously.

Illinois, Peoria.—Service in the vicinity of this station was maintained as during the previous year, four special cooperative fruit stations being operated.

Missouri.—Fruit-frost centers were maintained at St. Joseph and Springfield, Mo., and special warnings furnished to fruit growers.

COOPERATION.

A number of committees, consisting of representatives of the various bureaus of the department, were appointed by the Assistant Secretary of Agriculture during the year to cooperate with State colleges of agriculture and extension services in agricultural activities, the chief or

assistant chief of the division of agricultural meteorology being designated a member of each. These committees were appointed and worked chiefly during the latter part of the year, and their activities were progressing at its close. They were as follows:

Range committee.—Data bearing on the range problem relating to the work of the Weather Bureau were prepared and submitted to the general committee.

Range extension teaching committee.—A range handbook is under preparation. Weather Bureau data for inclusion in this have been submitted.

Spring-wheat region committee.—The assistant chief of division attended a conference of the Spring Wheat Regional Council at St. Paul, Minn., in January, 1923, at which it was decided to prepare a bulletin showing the physical characteristics of the spring-wheat region, about one-third of which should be devoted to climate; at the close of the year the preparation of the climatic section was well advanced.

Ozark committee.—Weather Bureau material has been submitted for use of this committee.

Cotton council.—Two subcommittees of the Cotton Council are working, namely, Forms and Functions of Local Associations and Statistical Investigations. This division is represented on both of these committees.

Extension committee.—This committee has made a final report to the Assistant Secretary, which includes a recommendation that each major bureau of the department detail an employee to give his entire time to extension problems, to be financed by the Extension Service.

Some preliminary arrangements were made for cooperation with the extension agents of the department in educational work in meteorology, i. e., informing the farmer and the business man what the Weather Bureau has available that would be of assistance to them and how it may be obtained. A trip was made by the official in charge through the Southeast and in some of the States east of the Mississippi River to acquaint the extension agents and others with the nature of our activities and to formulate plans whereby the information could be distributed in the most expeditious and widest manner possible.

PUBLICATIONS.

The following papers, prepared either by employees of the division or by station officials cooperating, were published during the year:

Influence of Weather on the Yield of Crops. J. Warren Smith. Monthly Weather Review, November, 1922.
Frost Fighting in the Pecos Valley. C. Hallenbeck. Monthly Weather Review, January, 1923.
Predicting Minimum Temperatures. W. J. Bennett. Monthly Weather Review, February, 1923.
Precipitation of Africa. Research Series No. 13, American Geographical Society. (Included with Vegetation and Soils, by H. L. Shantz and C. F. Marbut.) By J. B. Kincer.
The Climate of the Great Plains as a Factor in Their Utilization. Read by J. B. Kincer at the annual meeting of the American Geographers, Ann Arbor, Mich., December, 1922, and published in the annals of that association.

STATIONS AND ACCOUNTS DIVISION.

At the more than 200 principal stations of the Weather Bureau the uniform policy is to secure station offices and quarters in Government-owned buildings free of rent wherever practicable. However, owing to conditions that fail to furnish satisfactory exposure for instruments, or otherwise provide suitable quarters for the bureau, it is necessary to rent offices in many cases. The following tabulation indicates conditions as of July 1:

Status of Weather Bureau offices at stations outside of Washington.

Free quarters and accommodations:		
Observatory buildings (owned and controlled by the Weather Bureau)	46	
State university buildings	5	
Federal buildings	78	
Total free of rental		129
Rented buildings, etc., owned by individuals or corporations:		
Office buildings	90	
Buildings with kite-flying fields, aerological	6	
Total number rented buildings partly or wholly occupied		96
Total		[1] 225

[1] Four stations have quarters in two buildings, viz, Cape Henry, Va., two Weather Bureau; Cincinnati, Ohio, and Oklahoma City, Okla., Weather Bureau and Federal; and Columbus, Ohio, two rented buildings.

The foregoing does not include Weather Bureau buildings at Narragansett Pier, R. I., and Mount Weather, Va., which continue unoccupied in charge of caretakers.

Special meteorological station at Valdez, Alaska, was discontinued March 31, 1923, and removed to Cordova, Alaska, where free office quarters were obtained.

Leased quarters.—Existing leases for office quarters and accommodations at 24 field stations of the bureau expired by limitation June 30, 1923. These involved a total annual rental, as heretofore paid, of $19,371.36. In taking up the matter with lessors in each case, it was found that at 13 of the stations new leases could be had at the same price as heretofore, while at some of the remaining 11 stations exorbitant rentals were demanded, in one instance as much as 150 per cent increase, bringing the total to $25,082.64, an increase of $5,711.28. After extended negotiations office space was reduced and compromises effected whereby new leases were executed for these 24 stations at a total cost of $22,694 for next fiscal year, an increase of $3,322.64, a clear saving to the bureau of $2,388.64 over and above rentals as originally demanded and keeping within the limits of the appropriation. Enforced removals were made at Tacoma, Wash., and Dayton, Ohio, due to building operations.

Federal buildings in relation to adjacent higher commercial buildings.—Federal buildings at places where the Weather Bureau has field stations generally are of not more than three or four stories, and it is rare that suitable exposures for Weather Bureau instruments are available thereon. In recent years, and especially during 1923, the erection of higher commercial buildings in the vicinity of Federal buildings thus occupied has seriously interfered with the exposures of recording instruments. Funds for moving from free quarters to a rented building are in depleted condition, and in order to obtain proper exposures of instruments for meteorological observations which are of paramount importance it has been necessary in some instances to place the instruments on higher adjoining buildings, with electrical connections to registers in the office of the Government building, thereby avoiding payment of high rentals for office quarters.

Repairs and upkeep of Weather Bureau buildings.—Only a few repairs were made to the buildings and grounds owned by the Weather Bureau during the year, owing to limited funds. Repairs and repainting have necessarily been postponed from year to year and must now be taken up to insure proper preservation of this property.

Among the more important repairs and improvements effected during the year were those at Tatoosh Island, Wash., where a combined water-supply and electric-light equipment was installed, cistern water being the only available supply at this isolated place. This is collected from the roof of the observatory building and pumped into an elevated tank. Electric light (110-volt direct current) is furnished for the buildings and will also be utilized for storm-warning displays, all greatly improving the usefulness and efficiency of this important station, located at the Pacific Ocean entrance to the Strait of Juan de Fuca.

At Sandy Hook, N. J., the two-story brick building erected August, 1914, has never been satisfactory as an observatory and residence for the official in charge, due to porosity of exterior walls causing interior dampness. Applications of fluorspar compounds having failed to make the structure waterproof, the entire surface of the building was given two coats of magnesite stucco. Work was completed December, 1922, with effective results since.

Needed storage buildings were erected on the reservations at Cape Henry, Va., Burlington, Vt., and Abilene, Tex.

Conditions at Cape Henry, Va., were also greatly improved during the year by connections with the Norfolk Southern Railroad power line, thus securing better electric-light service for Weather Bureau buildings and storm-warning night displays made at that place.

Surplus buildings and property.—Weather Bureau buildings and grounds at Narragansett Pier, R. I., and Mount Weather, Va., remain surplus and unoccupied, in charge of caretakers. The sale, disposition, or rental of this valuable Government property has not been authorized as yet. Cost of only the most urgent repairs and upkeep amounted to about $2,500 per annum, which expense is necessary in order to keep the property from being rendered wholly worthless. In the interests of economy and good business management something should be done in the matter without further delay.

TELEGRAPH DIVISION.

Telegraphic transmission conditions throughout the country during the year were what may be considered as normal, although general use of the multiplex system for message business by the principal telegraph company, instead of "hand" sending which prevailed previous to the war, reduced efficiency in some sections. This latter method, however, is still used for forwarding "circuit" reports, and the system was maintained at a uniformly high standard, despite varying weather conditions of adverse character.

Local service was performed during the first half of the year with difficulty, owing to shortage of operators due to resignations of trained men because of inadequate compensation and to harassing delays in securing successors. This situation resulted largely by reason of the low salaries paid by the Weather Bureau as compared with the more attractive ones which commercial establishments are enabled to offer for the services of first-class telegraphers. Equalization and adequate pay will doubtless ensue when reclassification becomes effective: meanwhile, further losses may be expected and are imminent.

Performance of the audit work of the division suffered somewhat until the disturbing conditions above referred to were remedied. Earnest and continuous efforts by the division force during the winter, however, brought this work up to date in the late spring. No opportunity occurred for revision and improvement of division records and other nonessential activities of a desirable character referred to in the last report which have lain dormant since the immediate post-war period because of frequent and long-continued losses in personnel.

Contracts were renewed on favorable terms with the various telegraph, telephone, wireless, and cable companies, with the exception of one telegraph company, with which there has been no formal agreement for several years, although the rates for service named in the last executed contract are continued indefinitely by informal agreement.

An important element of the communication service during the hurricane season is the prompt reception of cable messages from the West Indies and the coasts contiguous to the Gulf of Mexico and the Caribbean Sea and of wireless messages from ships in these and Atlantic waters. The cable service was fairly good, but, as heretofore, inordinate delays in receipt of ship messages were experienced, largely due to static electricity which prevails during the summer months. It is not likely much improvement will occur until this handicap to prompt transmission is eliminated.

WEATHER BUREAU TELEGRAPH AND TELEPHONE LINES.

On the whole, these lines served satisfactorily the purposes for which they were constructed, namely, transmission to and from isolated stations on the Atlantic and Pacific coasts and in Lake Michigan of meteorological reports, storm warnings, vessel and wreck reports, and miscellaneous Government and commercial messages.

The conductor used for many years for telegraphing in the submarine cable connecting Block Island, R. I., with the mainland, however, developed trouble for a while in the fall of 1922 and became permanently disabled on March 26 last. The Coast Guard immediately offered to attempt repair, but because of unforeseen troubles appearing in the machinery of the cable ship repair was necessarily deferred for several months. In the meantime all telegrams had to be telephoned to and from the island. The conductor was repaired on July 1 and is now giving good service. It is liable, however, to break down at any time because of progressive electrolysis. In order that the large amount of telegraph and telephone business offered, especially in the summer, may be adequately taken care of, a new cable of greatly increased capacity should be laid by a commercial company immediately. This situation was presented several years ago to the presidents of the commercial companies directly interested without result. Two of the three conductors in this cable are leased to the New England Telephone & Telegraph Co. for telephone purposes, and it is only a question of time when the Weather Bureau will be compelled to terminate the lease and to assume entire control and operation and to build or lease land lines on the island and mainland in order to connect with a telegraph office.

Three other cables owned and operated by the bureau as telephone lines, viz, those connecting Beaver Island and North and South Manitou Islands, Lake Michigan, with the mainland, worked without interruption during the entire year. The line from Point Reyes to San Anselmo, Calif., connecting at the latter point with San Francisco via the Pacific Telephone & Telegraph Co., is also operated telephonically. General conditions were improved by a rerouting of 13 miles of the line and by substituting copper wire for the old galvanized-iron wire formerly in use. The 10-mile telephone line between Whitefish Point and Vermilion Point, Mich., was turned over to the Coast Guard March 1, which has supplied and now owns practically all the present material.

Two remaining lines are operated telegraphically, that between North Head and Fort Canby, Wash., 2½ miles, connecting with Portland, Oreg., by way of a War Department cable across the Columbia River, thence by Western Union wire from Fort Stephens, and the line from Tatoosh Island to Port Angeles, about 90 miles in length. These are not only vitally important to the Weather Bureau and other Government interests, but also carry a large volume of commercial business.

Under changed operating conditions across the Columbia River, displacing the cooperative arrangement with the Western Union Telegraph Co. effective for many years, the Weather Bureau now pays for all business transacted beyond Fort Canby, the tolls amounting to about $500 per annum. No revenue accrues to this line, except $90 per annum for its use by the telegraph company for commercial business.

Frequent reconstruction and repair work has always been necessary on the Tatoosh-Port Angeles line because of its location in rough woodland territory. Devastation by heavy storms which occur during the winter and spring and damage resulting from logging operations constitute the chief causes of trouble. The usual amount of this work was accomplished during the past year. The winter repair station at Sekiou, midway between Clallam Bay and Neah Bay, and that at Twin were closed June 30. The repair work of the sections will be done by employees at the stations on each side, thus enlarging the areas of the several sections concerned and reducing to some extent operating costs. Rerouting and improving the county roads is still in progress, and as this work is completed in a section relocation along these roads of the telegraph line follows.

The Government receipts from all lines for commercial messages handled during the year amounted approximately to $4,853. Expenses of labor and material for repair, reconstruction, and relocations amounted approximately to $4,000.

Norfolk-Cape Henry-Hatteras (Va.-N. C.) section (telegraph).—Owing to imperfect wire conditions south of Coast Guard station No. 179 during the first half of the year, considerable trouble was experienced in transmitting the large volume of business transacted over this line. During the latter half of the year 19 miles of new wire was strung, many poles reset, and new insulators installed over portions of this section, resulting in further improved operating conditions. The line is now in almost perfect working order, and when additional new insulators and poles are installed, which it is expected will be done in the near future, the line should be in excellent condition throughout its length of approximately 170 miles.

A new pole line was constructed and new copper wire strung for a distance of 1½ miles across New Inlet, which has completely filled up. This installation takes the place of a cable heretofore used for transmission across the inlet. The cable will be allowed to remain in place to be used in emergency cases.

Some short but necessary changes were made in the route of the line through the lighthouse reservation at Cape Henry and through the schoolhouse grounds at Hatteras.

Six hundred yards of line were blown down about 20 miles south of Cape Henry in April. Temporary repairs were made at once, but permanent reconstruction work will be deferred until the coming autumn. Three hundred poles and accessories were purchased during the year, the greater part of them having already been used in the reconstruction work above noted.

The line has been brought to its present satisfactory condition through the fine cooperation of the Coast Guard, which is largely interested in the upkeep of the pole line, as a metallic

telephone circuit is maintained thereon, connecting near the Hatteras station with the Coast Guard line to Morehead City, N. C.

Whitefish Point-Vermilion Point (Mich.) section (telephone).—For a number of years past replacements of poles and wire have been made by the Coast Guard and at its expense as the old materials became unserviceable. As practically none of the original line remained, jurisdiction and control of the present line was turned over to the Coast Guard on March 1, 1923.

Beaver Island-Charlevoix (Mich.) section (telephone); North and South Manitou-Sleeping Bear Point (Mich.) section (telephone).—These lines, consisting of both cable and land lines, although constructed 18 and 20 years ago, respectively, worked satisfactorily throughout the year. The Manitou lines are operated by Coast Guard officials, who perform the necessary work of occasional repair and upkeep, the materials for which are supplied by the Weather Bureau.

Point Reyes-San Anselmo (Calif.) section (telephone).—This line connects through the San Anselmo exchange of the Pacific Telephone & Telegraph Co. with the Weather Bureau office in San Francisco, and is used for transmission of meteorological observations, vessel and wreck reports, forecasts, and storm warnings. The Lighthouse and Coast Guard Services also have large need for its facilities, and the latter contributes extensively to its maintenance. No commercial messages are handled. In February a section of 13 miles of wire was transferred from poles of the Western Union Telegraph Co. to those of the Pacific Telephone & Telegraph Co., thus affording improved auditory and maintenance conditions, copper wire having been substituted for galvanized-iron wire. Number of messages handled by the Weather Bureau, 1,481; cost to Weather Bureau of upkeep, $8.64.

Alpena-Middle Island-Thunder Bay Island (Mich.) section (telephone).—But little interruption occurred on either of these lines, except during a portion of the winter and in June. This was caused by a defective connection in the Alpena local exchange.

During the year some repairs were made, costing $97, but the extensive reconstruction referred to as contemplated in the last report has been deferred, with the expectation of accomplishing it during the coming autumn.

By means of the two lines of 27½ miles in length, including 5½ miles of submarine cable, marine interests are greatly benefited, as they not only enable the bureau to display storm warnings, but also to obtain accurate information regarding weather conditions from each point for dissemination.

North Head-Fort Canby (Wash.) section (telegraph).—Since January 1 of this year the reciprocal arrangement between the Weather Bureau and the Western Union Telegraph Co. for service between Portland and North Head became inoperative because of the decision of the War Department to assess the latter company a definite annual sum for use of its cable across the Columbia River for transmission of commercial business. Previously the telegraph company had free use of cable facilities, first of the Weather Bureau cable and later of the War Department cable, in return for free use by the Weather Bureau of wire facilities between Fort Stevens and Portland. This change has not affected transmission of Weather Bureau business, which continues to be transacted directly between the Weather Bureau offices at North Head and Portland, but greater cost is entailed.

The Weather Bureau land-line facilities between Fort Canby and North Head are utilized by the telegraph company for a nominal consideration. Interruption between North Head and Portland totaled 175 hours, nearly all of which occurred on the Washington side of the Columbia River.

Commercial business increased greatly during the last three months of the year, owing to better facilities for communication with Alaska and with ships having been provided in the rebuilding of the naval radio station at North Head, with which the Weather Bureau wire connects.

It seems unnecessary to give detailed accounts of the several lines operated by the bureau, as these have been given in previous reports, and conditions are not materially different at the present time. A list of the lines, however, is given on the following page.

Block Island and Matunuck Beach, R. I.—Telegraph line, two wires leased to commercial company for telephone communication.

Norfolk-Cape Henry, Va., and Hatteras, N. C.—Telegraph line.

Whitefish Point and Vermilion Point, Mich.—Telephone line.

Beaver Island and Charlevoix, Mich.—Telephone.

North and South Manitou and Sleeping Bear Point, Mich.—Telephone.

Alpena, Middle Island, and Thunder Bay Island, Mich.—Telephone.

Point Reyes and San Anselmo, Calif.—Telephone.

North Head and Fort Canby, Wash.—Telegraph.

Tatoosh Island and Port Angeles, Wash.—Telegraph.

AEROLOGICAL INVESTIGATIONS.

Free-air observations by means of kites and balloons were continued throughout the year. This work has become an important integral part of the Weather Bureau's program.

Kite stations.—Observations with kites were made regularly at Broken Arrow, Okla.; Drexel, Nebr.; Due West, S. C.; Ellendale, N. Dak.; Groesbeck, Tex.; and Royal Center, Ind. Kite flights are made daily, whenever possible, and in addition, when conditions are favorable, continuous series of flights are made for periods of 24 to 36 hours. Records of air pressure, temperature, humidity, and wind are thus obtained.

Pilot-balloon stations.—Observations by means of pilot balloons were made at the six kite stations, above listed, and at Burlington, Vt.; Denver, Colo.; Ithaca, N. Y.; Key West, Fla.; Lansing, Mich.; Madison, Wis.; San Francisco, Calif.; San Juan, P. R.; and Washington, D. C. The observations are made twice daily at the six kite stations and at Key West, Fla., and Washington, D. C., and once each day at the remaining stations, and the computed wind conditions at various heights are telegraphed to district forecast centers at Washington, D. C.; Chicago, Ill.; and San Francisco, Calif.; where they form the basis for "flying weather" forecasts issued to the military, naval, and postal aviation services.

Special observations have been made, when requested, for use in connection with long-distance flights, free-balloon races, etc.

Observations with two theodolites have been continued, whenever opportunity afforded, in order to check the accuracy of the formula for rate of ascent of balloons and the behavior of the balloons themselves at high altitudes. These observations have shown that the revised rate of ascent formula gives extremely reliable results, except when there are pronounced vertical movements in the atmosphere. Even then the error is appreciable only in the lower layers.

Cooperation.—Effective cooperation with the Army and Navy meteorological services has been continued throughout the year. Each of these services maintains a number of pilot-balloon stations, whose primary purpose is to furnish data of immediate local interest to aviators at flying fields. These observations are also telegraphed to district forecast centers of the Weather Bureau for use in issuing "flying weather" forecasts. They thus supplement, in a very helpful way, the observations made at Weather Bureau aerological stations. In addition to the stations in the United States proper the Navy maintains one at Santo Domingo, Dominican Republic, and one at Coco Solo, Canal Zone, which, together with those of the Weather Bureau at San Juan, P. R., and Key West, Fla., furnish information of value in connection with the development and movement of hurricanes. A much larger number of stations is necessary, however, to make this service as effective as it should be.

In cooperation with representatives of the United States Air Service, the air-mail flight records for one year were analyzed and studied in connection with the Weather Bureau's kite and balloon data, and the results of this investigation were published under the title "The Wind Factor in Flight: An Analysis of One Year's Record of the Air Mail."

The official in charge of aerological investigation is the Weather Bureau representative on a sectional committee that is preparing an aeronautical safety code. The committee is composed of representatives of the Departments of War, Navy, Commerce, and Post Office, the Society of Automotive Engineers, the National Aeronautical Association, and aircraft

manufacturers. The code, when completed, will provide regulations for the design and manufacture of aircraft, qualifications of pilots, establishment of airdromes and airways, and dissemination of meteorological forecasts and warnings, etc.

Central office.—All observations made at kite and balloon stations by the Army and Navy, as well as by the Weather Bureau, are forwarded to the central office of the Weather Bureau for final reduction and study. Data based upon these observations are furnished in answer to numerous inquiries, not only from other Government departments but from commercial aviation concerns as well. In many cases reprints of special discussions and summaries were issued in answer to these requests.

Work has been continued on the preparation of a summary entitled "An Aerological Survey of the United States." When completed, this will contain the results of all free-air observations made in this country.

The publication of monthly summaries of free-air conditions in current issues of the Monthly Weather Review was begun in January, 1922, and has been continued.

During the year there was brought to completion an exhaustive study of the relations existing between surface winds and temperatures on the one hand, and free-air pressures on the other, the purpose being to make possible the construction of pressure maps for upper levels for use in forecasting. This has been published as Supplement No. 21, entitled "The Preparation and Significance of Free-Air Pressure Maps for the Central and Eastern United States." A preliminary application has yielded encouraging results, and it is believed that with further extension of the study important and valuable aids to forecasters will be provided.

CLIMATOLOGICAL DIVISION.

Meteorological reports.—The work of checking receipt of and the examination of meteorological forms from all classes of stations, the preparation of letters correcting errors discovered in these reports, their filing, and final assemblage and binding for preservation have gone forward promptly, and the several processes of accomplishing these are as near up to date as feasible.

Publications.—The Annual Report of the Chief of Bureau, 1921–22, was prepared and printed as usual, and special effort was made to make the chapters on windstorms, hail, etc., as complete as possible.

The summaries of climatological data from the various States were published without material change from the style last adopted. A useful feature of the climatological data for the California section was provided for in the form of an annual summary showing by months and for the season the precipitation for that section during the rainfall season 1921–22—that is, from July 1 to June 30, instead of for the calendar year. This summary is issued as promptly as possible after July 1, and gives to those interested in the seasonal distribution of precipitation in that State the earliest possible facts. The publication has been well received by the water interests of the State and may be extended, if found desirable, into other Pacific States where precipitation conditions are similar to those of California.

A special effort was made at the close of 1922 to have printed for each of the regular stations an annual summary of station weather data for that year, together with tables of monthly and annual means of temperature and monthly and annual totals of precipitation for the entire period of observations at the respective stations, as these data, particularly those of the monthly and annual temperatures, heretofore had not appeared in convenient form for distribution and study. This work was accomplished largely by the hearty cooperation of the office forces at the various stations provided with printing facilities, and much credit is due station officials for the spirit of cooperation exhibited, particular attention being invited to the Fort Worth, Tex., office, where more than 20 such reports were printed. These reports serve many needs at the stations and are greatly in demand for answering questions concerning local weather conditions.

Cooperative work.—The gathering of weather data by our large army of cooperative observers progressed as usual, though no great effort was made to extend this work, save in a few localities where the absence of a permanent population interferes with the collection of continuous data.

As indicating the increasing demands for weather information in connection with business interests, attention is invited to the numerous requests for the opening of new observing stations and the willingness of individuals, companies, and other organizations to furnish, without cost to the Government, the necessary outfit of instruments, provided the bureau will advise as to the selection of the necessary apparatus, supervise its exposure, and have general control of the observations in order to assure the collection of reliable data. The country is mainly so well covered with reporting stations that no material extensions are required, and such new stations as are being opened, particularly those recording temperature, are mainly at the expense of those requiring the service.

Cordial cooperation continues with many departments and bureaus of the Government in securing observations from localities which otherwise would be unrepresented on account of scarcity of population. This is particularly the case with the Forest and Indian Services, whose employees cover areas having no stable population.

Inspection of cooperative stations.—On account of lack of sufficient funds for several years, the inspection of cooperative stations has been badly handicapped, and a crying need for wholesale inspections is now apparent. As stated in previous reports, such inspections are necessary to establish that personal connection between the bureau and the cooperative observer which seems so necessary to permanent cooperation. In fact, the lack of this contact is believed to be the weakest point now existing in our system of cooperation in collecting weather data.

Weather insurance.—The demands of the public for protection on account of changes in the weather, in every conceivable manner, have necessitated on the part of insuring companies the collection and careful study of precipitation statistics, and many calls have been made on this division, as well as the various stations, for data on the distribution of precipitation during the various parts of the day and otherwise, in order to arrive at rates reasonable to those seeking protection and safe to the insuring companies. The general matter of rain insurance has necessarily entered into the field of our cooperative observers, who receive many requests for statements concerning the precipitation for certain specified periods. These requests will doubtless greatly increase as this form of protection grows, and it promises serious complications in the way of payment for service, possible errors of record due to attempts to secure data for other than the regular hours of observation, etc.

Special work accomplished during the year.—The preparation of the daily normals of maximum, minimum, and mean temperatures was continued during the year, the reduction of the short-record stations to the full 46-year period being a task of great magnitude, and only slow progress has been possible owing to press of current work.

The reprinting of the sections of Bulletin W, which had made good progress during the preceding year, made little advance during the fiscal year just closed, on account of lack of funds. The printing of 25 additional of these sections was authorized near the close of the year, but they still remain unprinted.

The program outlined some years ago for collecting, tabulating, and printing of weather statistics from foreign countries was taken up during the fiscal year just closed by the assignment to the division of an assistant versed in such matters. Considerable progress has been made in assembling the data for the Central and South American States, and one section, that on Central American States and adjacent areas, has been published in the Weather Review and separates obtained for distribution as required. Other sections for the principal South American countries are mainly ready for publication, but are being held for additional data that may be forthcoming from other sources than our library affords.

A proposed section covering the islands of the Pacific [illegible]

THE MONTHLY WEATHER REVIEW AND PRINTING.

The Monthly Weather Review, now in its fifty-first year of publication, continues to serve as an important medium in the diffusion of information concerning the results of research in meteorology in all parts of the civilized world. It also enables the United States to meet its international obligations to furnish other nations and Governments with a statistical résumé of the meteorology and climatology of an important part of the North American Continent.

The number of copies of the above-named publication that shall be printed for free distribution has been limited. As the demand for it increases it becomes embarrassing to distinguish between those who should receive it gratis and those who should be required to subscribe for it through the Superintendent of Documents. The experience of the bureau leads to the belief that the time is fast approaching when free distribution to individuals as such must be restricted to those who can qualify under certain broad requirements, such, for example, as being a collaborator or cooperator with the bureau, an educational institution offering a course in meteorology, libraries, and workers in agricultural colleges and experiment stations.

On account of the special courses being given by educational institutions throughout the country in meteorology and kindred subjects, the demand for all publications has increased considerably. It has been the policy to comply with these requests in such numbers as the existing regulations will permit. Applications for publications from individuals receive prompt and careful attention. In case the publications are exhausted or can not be supplied the applicant is so advised.

During the year several new publications were printed, including a chart of Description of Cloud Forms and two Monthly Weather Review Supplements, entitled "The Spring Floods of 1922" and "Thermal Belts and Fruit Growing in North Carolina." These supplements contain valuable meteorological data for which there has been a considerable number of requests from institutions, engineers, and specialists in this particular work.

Paid subscriptions for the daily weather map have increased. Insurance companies specializing in rain insurance have found the daily weather map and climatological statistics an important factor in their work. The increase in subscriptions for the Monthly Weather Review through the Superintendent of Documents has made it necessary to furnish additional copies to meet the public demand. The present subscription price of the Monthly Weather Review is $1.50 per year, payable in advance to the Superintendent of Documents, Government Printing Office, Washington, D. C. The Monthly Weather Review Supplements are available for purchase through that office at a price furnished upon application, provided the edition is not exhausted. They are not included in the subscription for the Monthly Weather Review. The mailing lists of the Weather Bureau have been revised and brought up to date, resulting in the discontinuance of a number of subscriptions.

Under the regulations prescribed by the congressional Joint Committee on Printing, quarterly printing-plant reports and annual inventory reports from 97 field stations and the printing office, Washington, D. C., were rendered to the chief, Division of Publications, Department of Agriculture, for transmittal to the committee. The data furnished on each of these quarterly reports include number of jobs, total number of copies, number of type pages per copy, number of illustrations, total cost of printing and binding, editorial cost, and the proportionate salary for the quarter, and number of employees engaged on the work. Samples of all work performed during the quarter are attached to these reports. The inventory report rendered annually includes the printing and material and equipment at each of the field stations and the printing office, Washington, D. C., with the cost of each item of machinery or equipment, and the estimated value at the present time. These reports also show whether the plant is housed in a Government-owned building or rented property. Contract-printing and printing-machinery reports are also rendered quarterly.

INVESTIGATIONS IN SEISMOLOGY AND VOLCANOLOGY.

The important work of collecting and publishing earthquake data, begun December 1, 1914, has been continued during the year.

Instrumental records have been obtained by instruments owned and operated by the Weather Bureau at Washington, D. C.; Northfield, Vt.; and Chicago, Ill. Similar data have

been secured for publication from various seismic observatories distributed from Panama to Canada and from the Hawaiian Islands to Porto Rico.

The noninstrumental reports rendered by the regular and cooperative observers of the Weather Bureau recorded 84 separate earthquakes strong enough to be felt by the unaided senses in continental United States during the calendar year 1922. Although some of these were felt over wide areas, none resulted in appreciable damage. No important earthquakes occurred in our outlying possessions.

Special investigations and observations of volcanic phenomena have been steadily conducted at Kilauea. In the main, activities at this place have been mild, and at the time of this report the volcano is practically dormant.

LIBRARY.

During the fiscal year 968 books and pamphlets were added to the library, bringing the total strength of the collection up to about 42,000 volumes.

In addition to these books, which are kept at the central office in Washington, though available for loan to stations, there have been issued to stations for permanent use during the past 25 years more than 11,000 books, generically described as "station textbooks." Allowing for books withdrawn, discarded, lost, etc., the number of such books now permanently deposited at Weather Bureau stations is estimated at more than 8,000, not including files of Weather Bureau publications and various miscellaneous books of which no record is kept at the central office. An especially strong collection of meteorological literature has been assembled at the Chicago station. This collection contains many rare works, including files of the leading meteorological journals and foreign official reports, and has been gathered to serve as a reserve library, from which books could be transferred to the main library in Washington in case of loss of the latter by fire. Station libraries are used to some extent by the public as well as by the personnel of the stations. Inquiries for meteorological information addressed to the central office are in many cases answered by referring the inquirers to books accessible at Weather Bureau stations.

OCEAN METEOROLOGY.

This work is sustained by the cordial cooperation of many shipmasters making daily observations at Greenwich noon. The number of reports rendered was adequately maintained, in so far as the regions traversed by the principal trade routes were concerned, and the matter furnished for periodical publication on the Pilot Charts and elsewhere was prepared in the usual manner, and the Hydrographic Office was assisted in the revision of texts relating to cyclonic storms for its publications.

An important feature of work accomplished during the year was the preparation of a comprehensive article on the tropical storms of the eastern North Pacific Ocean, off the west coast of Mexico and Central America. This work was undertaken in the interest of the shipping in those waters, which has greatly increased in volume since the opening of the Panama Canal.

Requests have recently been renewed for the Weather Bureau to increase its contributions of data relating to world meteorology. Further participation in this work, however, must await increase of force.

INSTRUMENT DIVISION.

The instrument industry.—Conditions during and immediately following the war which made it difficult to obtain instruments from Europe have been followed by the stimulating effect created by demands from the Army, Navy, Air Service, and Shipping Board, and from industrial concerns, for meteorological instruments. American manufacturers have hence been justified in undertaking the manufacture of instruments heretofore largely imported, so that practically all the instruments used by the Weather Bureau are now obtainable in this country. However, clocks for the recording cylinders of thermographs and barographs await further development, and there is considerable promise along these lines also. The present tariff schedule requires the various branches of the Government to pay from their appropriations the

same import duties as are paid by anyone else; hence there is no financial advantage to a bureau in purchasing instruments abroad, and such conditions are favorable to the upbuilding of a stable and dependable meteorological instrument industry in this country.

The storm-warning display equipment, which was thoroughly overhauled several years ago, has required little repair, except on the Gulf coast, where changes in organization and the rapid deterioration of ironwork have required a considerable number of replacements. The three-lantern system of display, now in satisfactory operation throughout the bureau, has not been found unduly expensive to maintain.

Exposures of instruments at a number of first-order stations are becoming impaired by the rapidly increasing erection of high office buildings. The problem is not solved by moving the instruments to the higher building. While the wind instruments are given a better exposure by such a removal, the rain-gauge exposure is seriously impaired. Meteorological stations in parks or suburban observatories offer the best solution of the problem of securing sound meteorological data in the large cities.

The evaporation program inaugurated in 1916 has been continued, with about 50 stations rendering regular reports, which are published in the State section reports. Many requests for additional stations have had to be refused because funds were not available for extensions. The data being accumulated are of much value, particularly at this time of increased interest in water resources. A careful digest of accumulated evaporation records is much needed.

Measurements of rainfall for short periods at places where outdoor events are insured against rainfall are in increasing demand. The conditions set forth in insurance policies require exactness, particularly as to time, while the large amounts sometimes named in the policies justify unusual precautions against unauthorized interference. Three of the weighing-recording gauges described in Circular E, Instrument Division, have been issued for this purpose, and, in an effort to secure a less expensive gauge that would assist observers, an 8-inch gauge has been fitted with an attachment that automatically shifts the flow to the measuring tube at the beginning of the insurance period and out of the tube at the end of the period.

The investigations in anemometry by Messrs. Fergusson and Covert, begun in 1922, are nearly completed. Final corrections for the present standard and many other patterns have been determined throughout the range of the natural wind for the first time in the history of anemometry, and from a group of instruments of an improved pattern it is expected that there will be selected a new standard whose indications will be more nearly constant than those of the present standard. This work has been made possible by the kind cooperation of the Bureau of Standards.

The advice of the Weather Bureau is being sought with increasing frequency regarding ways and means for protection against lightning, which inquiries are largely due to the extensive circulation of Farmers' Bulletin No. 842, "Modern Methods of Protection Against Lightning."

During the past year and a half Roy N. Covert has represented the Weather Bureau on a sectional committee of the American Engineering Standards Committee, which is developing a standard for the protection of buildings and other property against lightning. The American Institute of Electrical Engineers and Bureau of Standards are acting as sponsors for this standard, which should be available for public use during 1924. As stated in the introduction to the standard, its purpose is to promote the prevention of fire and other loss from lightning by directing attention to the best available means of protection. Practically all organizations interested in protection against lightning are represented on the sectional committee.

The exhibit work of the Weather Bureau is now merged with the general exhibit work of the department, exhibits being made largely by subjects rather than by bureaus. Under the present plan a committee is created for each major exhibit, with a representative from each bureau of the department, to bring before the general committee the facts that his bureau can contribute. The chief of the Instrument Division is the Weather Bureau representative on committees now preparing the 1923–24 exhibits.

SOLAR RADIATION INVESTIGATIONS.

As in past years, the intensity of solar radiation at normal incidence has been measured on days when the sky was free from clouds at Washington, D. C.; Madison, Wis.; and Lincoln, Nebr. The total radiation received on a horizontal surface directly from the sun and diffusely from the sky has also been continuously recorded by automatic instruments. The results have been published each month in the Monthly Weather Review.

A thermoelectric pyrheliometer has been devised and constructed in the Weather Bureau machine shop for use in connection with a recording voltmeter to obtain continuous records, not only of the total radiation received on a horizontal surface but also of the intensity of solar radiation at normal incidence. Pyrheliometers of this type are now in use at Washington; one has been furnished to the Chemical Warfare Service for experimental work at its arsenal, Edgewood, Md., and two others are about ready to be installed at the Weather Bureau observatories at the University of Chicago, Chicago, Ill., and in Central Park, New York. A description of this pyrheliometer has been published in the Monthly Weather Review for May, 1923, and in the Journal of the Optical Society of America and Review of Scientific Instruments for September, 1923.

A convenient method has been devised for the determination of the intensity of daylight that may be expected at window openings in the country, on city streets, or on open or closed courts. Briefly stated, the method utilizes the measurements of sky brightness and daylight illumination made by the Weather Bureau in recent years and determinations by the Weather Bureau and others of the coefficient of diffuse reflection of different materials to determine the brightness of the various surfaces that are visible from a window, such as sky surface, lawn or street surface, the walls of buildings, etc. A complete demonstration of this method has been prepared for publication in an early number of the Journal of the Illuminating Engineering Society.

The Weather Bureau received 1 of the 12 Owens dust counters which were distributed to observatories in 12 different countries by the Bureau of Section (C), Meteorology, of the International Union of Geodesy and Geophysics, and is taking part in an international investigation of the dust content of the atmosphere. Since December 7, 1922, a determination of the number of dust particles per cubic centimeter has been made on each working day and the character of the particles noted. Most of the determinations have been made in a suburb of Washington, but on some days measurements have also been made on the street near the center of the city and also at the top of the Washington Monument, 500 feet above the street level. Through the cooperation of the Army Air Service a few examinations of atmospheric dust have been made during airplane flights up to a height of 12,000 feet above sea level, and arrangements have been made for more observations of this character. For this purpose a modification of the Owens dust counter has been designed and constructed in the Weather Bureau machine shop.

Besides city smoke and particles taken up from the surface of the earth by the wind, occasionally particles are found that appear to be of volcanic origin or even from some source other than the earth.

The investigation has special reference to atmospheric pollution in cities, and also to atmospheric transparency, which is of prime importance to aviators.

In cooperation with the Chemical Warfare Service experiments were conducted at Edgewood Arsenal, Md., to determine the efficiency of a smoke barrage, such as is employed by the Army to cover the movement of troops, in protecting orchards and other forms of vegetation from damage by frost. The results, which have been prepared for publication, confirm our previous conclusions that the most practical and economical method of combating frost is to heat the surface layer of air by the combustion of some form of cheap fuel.

PART II.

GENERAL SUMMARY OF THE WEATHER CONDITIONS IN THE UNITED STATES DURING THE YEAR 1922, WITH CHARTS.

LIST OF OBSERVING STATIONS AND CHANGES THEREIN DURING 1922.

SUNSHINE, 1922.

DETAILS OF EXCESSIVE PRECIPITATION, 1922.

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REVIEW OF WEATHER CONDITIONS DURING THE YEAR 1922.

By P. C. Day, Meteorologist, and Chief of Division.

The year averaged considerably warmer than normal nearly everywhere to eastward of the Rocky Mountains, yet usually not so warm as 1921 had been. The total precipitation of the year was lighter than usual in the lower Lake region and the Middle Atlantic States, also on the immediate Pacific coast from Puget Sound to central California. However, the main weather features of the year were not greatly different from those that are likely to occur over an area as vast as the continental United States, considering that within its limits the forces that tend to produce intense heat or cold, heavy rainfall or prolonged drought, have wide spaces favorable for the development of severe types of weather.

Among the notable weather features during the year, the following stand out prominently:

The heavy snowstorm over the Middle Atlantic States near the end of January, where the depth of fall was among the greatest, and in cases the greatest ever known in those districts.

The heavy rains of March and April over many of the interior and southern portions of the country, which caused widespread floods in most important streams to eastward of the Rocky Mountains, the middle and lower portions of the Mississippi River and many tributaries approaching or reaching the highest stages of record.

The wide deficiency in precipitation over the country as a whole during September, continuing over many sections into October, and the marked warmth of both months, embracing likewise practically the whole country, were somewhat unusual features.

On the other hand, there was an almost entire absence of devastating storms of the West Indian hurricane type, and tornadoes, while probably as frequent as usual, were mainly of the less destructive type, and loss of life and damage to property were usually not serious.

JANUARY.

Except in the far West, where it was decidedly cold, January, 1922, can be styled an average winter month, with few notable features. In the middle and eastern parts of the country temperatures shifted rapidly at times, but the month averaged usually not far from normal, though inclined to be milder than normal during the first half and colder afterwards. About the 19th one of the most severe cold spells in the far Southwest for years reached central and southern California and Arizona, the temperature falling at Phoenix and Fresno to 24° and at Los Angeles to 31°. At the last-named point great damage to fruit and other crops resulted.

West of the Divide the monthly temperature deficiency was large, being from 8° to 15° in much of Idaho and northern Nevada, the month being the coldest, with two exceptions, in a 44-year record at Winnemucca, Nev. In the States of Missouri and Illinois January, 1922, was the first month averaging cooler than normal since November, 1920.

The monthly precipitation was generous in Louisiana and eastern Texas, and in most districts south of the Ohio River and Pennsylvania, notably in Alabama and Mississippi; also in much of the Pacific region, and it compared well with the normal in Arizona. From northern California northward it was usually much less than normal, and in most areas not yet named in this paragraph the totals were deficient, being but about half the normal, on the whole, in Kansas and Missouri, and fully a third below normal in most parts of the Ohio Valley, the Lake region, and New England.

The snowfall of the month was mainly above normal in the Atlantic coast region and usually in the Rocky Mountain, Plateau, and North Pacific States; but it was less than normal over most of New England and thence southwestward over the Ohio Valley and middle Plains. One of the heaviest snowstorms ever known in the locality overspread the districts east of the Appalachian Mountains from central North Carolina to eastern Pennsylvania and portions

of New Jersey from the 27th to 29th, the depths ranging up to as much as 3 feet in some portions of the area.

The cold and snow in the far West were severe on livestock, and in much of the great winter-wheat region conditions were somewhat unfavorable; but in the main the weather was favorable in the Gulf, Central, and North Atlantic States.

FEBRUARY.

During the first week in February severe cold weather which had prevailed in most of the far West during the latter half of January continued in nearly all districts to westward of the Plains, the week being especially cold in the middle Plateau region and northern Arizona; but from the Plains eastward mild weather prevailed practically all the week. The fortnight from the 8th to 21st, inclusive, did not show marked contrasts in temperatures, but was somewhat warmer than normal over more than half the country, and particularly warm over the middle and southern Plains. The final week of February was a period of decided contrasts, nearly all the States west of the Mississippi, also Wisconsin and northern Michigan, being colder than normal, with Montana, the western parts of the Dakotas, and most of Wyoming averaging for this week from 17° to 27° colder than normal. At the same time it was remarkably warm in the east Gulf and South and Middle Atlantic States, the average departure for the week being usually from 8° to 15°.

The total precipitation of the month was above normal from central and eastern Texas to Virginia, except that in the Florida peninsula it was less than normal. In nearly all the more Northeastern States, also in most parts of the Ohio Valley, it was a little below normal, but ample for most needs. In the middle Mississippi and lower Missouri Valleys, and most parts of the Plains and the Rocky Mountain regions, it was less than normal, with notable scarcity in western Nebraska, western Texas, and southern New Mexico, where, as a rule, conditions had been unusually dry for several months preceding. From the upper Lakes westward over the Dakotas it was usually well above normal, in large portions of Minnesota and Wisconsin fully three times the normal. In most of California and the greater portions of the middle Plateau region there was, likewise, more precipitation than normal.

The snowfall was mainly light in the central valleys and not far from normal in most northeastern districts. It was notably heavy in the mountains of California and Nevada and from the Dakotas eastward to the upper Lakes.

Over much of the Southeast the month was too wet for good progress with work, and in middle and northern districts of the far West and over most of the Missouri Valley the cold was severe. There was vast damage from southern Minnesota eastward to Lake Huron from a heavy glaze storm about the 22d.

MARCH.

The first week of March, 1922, was cold in most districts, particularly in the Plateau region and the Gulf States, yet fairly mild weather prevailed at this time in the Northeast and the Lake region. The fortnight which followed was rather warm for the season to eastward of the Rocky Mountains, but the final 10 days showed no such strong tendency, being mostly a little warmer than normal to eastward of the Mississippi, but bringing some decidedly cold weather in northern districts from Lake Superior to the Pacific.

The entire month averaged considerably cooler than normal from the Rocky Mountains westward, especially in the Plateau States, and averaged slightly cooler than normal from New Mexico eastward to Mississippi. Elsewhere the month was warmer than normal, the excess being about 4° to 6° per day in the Missouri and upper Mississippi Valleys.

The first week was marked by decidedly heavy rains in most parts of the middle and eastern cotton States; and during the fortnight following the rainfall continued rather heavy there, and much rain fell also in the central valleys, while in eastern Kansas and adjacent districts there was considerable precipitation, particularly about the 13th. The closing decade of the month brought little rain in the Atlantic States, save from Pennsylvania northeastward on the

last days, but there was somewhat more to westward of the Appalachians, and especially generous amounts fell in the west Gulf region and thence northeastward to the central valleys and the southern portion of the upper Lake region. In the northern Plains and generally over the West as far as the Cascade-Sierra crest the precipitation of the month was below normal and such as occurred came chiefly quite late in the month. Close to the Pacific Coast the rainfall was fairly well scattered through the month, though in California there was usually somewhat less than normal. The chief feature of the month's precipitation was the great excess in southern Missouri and southeastern Kansas and the area to southward and southeastward of these, except Florida. Here the precipitation averaged fully 8 inches, and in Alabama, Mississippi, and Louisiana close to 10 inches, being about twice the March normal. Serious floods naturally resulted in many rivers of this area.

The month's snowfall was mainly less than normal over the eastern half of the country, but near and sometimes above over the western half.

The chief adverse features of the weather were the hindrance to outdoor work from the central valleys southward, caused by the heavy rains and floods, and the loss or weakening of livestock in parts of the West, due to abnormal cold. In portions of Texas the cold early in the month did much harm to crops.

APRIL.

Although the first few days of April were cool in many of the Eastern States, yet the first half of the month was mainly quite warm for the season, except from the Rocky Mountains westward, where it was cold. Somewhat before the middle of the month, however, cool weather set in over the Missouri and upper Mississippi Valleys and gradually extended eastward, reaching the Atlantic States about the 21st. By this time the conditions had turned to moderate warmth over many parts of the western half of the country.

The month averaged about 3° to 4° warmer than normal from the Ohio River southward to the Gulf, and practically everywhere to eastward of a line through eastern Montana, central Kansas, and western Texas was somewhat warmer than normal. Near and to westward of the Rocky Mountains the month averaged colder than normal, the central Plateau area having a deficiency of about 6° per day.

The month's total precipitation was moderate to locally heavy in the Atlantic States, save it was scanty in Florida, southern Georgia, and the vicinity of Chesapeake Bay. From the Appalachians to the western limits of the Plains the amounts were nearly everywhere well above normal, with especially large totals in central Indiana, south-central Illinois, southern Missouri, the eastern and central parts of Oklahoma, and nearly all of Texas, save the extreme western and the lowermost Rio Grande areas. The Dakotas and southwestern Minnesota had less precipitation than normal, likewise a good many districts near the Gulf coast. In the far West most States had rather more than normal amounts, but California had much less than normal.

The month was somewhat less favorable than usual for outdoor work, especially planting. The frosts and cold weather late in the month did much harm, especially to fruit; the region that suffered considerably extended from New York and Ohio to North Carolina; Ohio and West Virginia apparently experienced the heaviest losses in proportion to prospects. In much of the far West young livestock suffered from the cold, stormy weather. Fall-sown grains, in the majority of the important States, did comparatively well.

MAY.

The first half of May was mainly warm in the eastern half of the country, and in the West the opening week was mainly warm, save in the far Northwest, but the second week was cool nearly everywhere from the Pacific coast to the eastern edge of the Plains, and especially cool in Utah, Wyoming, and districts adjoining. From the middle of the month onward temperatures were well above normal in the Lake region and somewhat above normal, as a rule, in the

Middle and North Atlantic States, the Missouri and upper Mississippi Valleys, the Plains and Rocky Mountain States, and the far Southwest. The Southeast, however, and parts of the far Northwest and the middle Plateau region, averaged slightly cooler than normal during the latter half of May.

Over nearly all of the country east of the Rocky Mountains rain occurred frequently during May, and seriously dry conditions were scarcely anywhere heard of, but the Rocky Mountain States and those farther west had usually less than normal May precipitation. Snowfall in May was practically confined to high districts and the northern Plains, and points in Utah and thence northeastward to the Black Hills about the 9th or 10th recorded some of the heaviest falls ever experienced during any May.

The month was mainly favorable for small grains, except that it was too dry and cool in parts of the far Northwest; and corn had mainly favorable weather conditions. Over much of the cotton region it was unfavorably wet, and great delay occurred in getting the crop well started. In some portions of the far West there was frost injury to fruit, and to field and garden crops, and locally livestock suffered from cold, stormy weather.

JUNE.

Temperatures during June, 1922, were somewhat more steady than usual, and there was no remarkable heat or cold during the month, but the month, as a whole, was warmer than normal over almost the whole country.

The rains of June were rather irregularly distributed, especially after the first week, when much rain occurred in the Atlantic States, also in western and northern Texas and near-by areas. The monthly amounts were large in New England and New York, and were mainly well above normal in the States to southward as far as Georgia, while in the Gulf States the rainfall averaged quite close to normal, and in Kentucky and Tennessee rather less than normal. From central and northern Michigan westward to eastern Montana there was usually more than normal. A region of marked deficiency covered the lands around southern Lake Michigan and large areas to westward and southwestward as far as the middle Rocky Mountains; very much of this region had fortunately received rainfall in excess during the preceding month. June was remarkably dry in the far Northwest, being, in the State of Washington, very much the driest June of record.

The dryness in the central valleys and still more in the far Northwest had some bad effects on crops and pastures. Small grains were adversely affected in several States by scarcity of moisture and by heat. Yet the month was mainly as favorable as the average June, or slightly more favorable. A number of unusually damaging local storms occurred in the Lake region, the middle Ohio Valley, and the States to eastward about the 10th to 12th, then again in the same region not quite a week later.

JULY.

July temperatures did not depart widely over large areas from the average temperature conditions indicated by past years.

The rainfall occurring during July was rather well distributed through the month. However, there was pretty heavy rainfall from eastern Kansas to the districts around Lake Michigan between the 6th and 12th, and from Georgia to the Chesapeake Bay region about the 18th to 21st. In the western part of the country, from northern Arizona and New Mexico northward, such rain as occurred fell mainly during the final fortnight of the month.

The month brought less severely hot weather than July generally does, and this was particularly true in the portions of the country where large cities are chiefly located.

For crops the month was somewhat more favorable than the average July, though conditions varied considerably within individual States. The range conditions were poor in most portions of the far West and the southern Plains.

AUGUST.

Temperature conditions during August were fairly constant. Generally, the first half of the month was a little cooler than normal in the portion east of the Mississippi River. The latter half was warmer than normal in nearly the whole country, except from Pennsylvania and the Ohio River southward, and was decidedly hot over the Plains States; also there was some very hot weather in Idaho and vicinity about the 24th–28th.

The serious drought in the far Northwest was broken during the opening fortnight of August. Also the first week brought light to moderate, or sometimes liberal, rains in most of the Plains States and the lower Mississippi Valley, and in nearly all districts east of the Mississippi River. The second and third weeks had but little rain east of the Rockies, save in the Southeast and a few other portions. During the final ten days there was very little rain in the western half of the country, but most districts east of the Mississippi River had some rain.

In many interior districts there was considerable discomfort from the heat, and in much of the Plains and a few other areas late corn and some other crops deteriorated considerably from the insufficiency of the moisture. Ranges were mainly in good condition for the season save in Oklahoma, New Mexico, and western Texas.

SEPTEMBER.

Over nearly the whole country September was warm and dry. The opening days were warmer than normal nearly everywhere, and were especially hot in the Plains States and much of the Mississippi Valley; also the final week was remarkably warm for the season from Montana and Wyoming eastward to the upper Lakes.

The month, as a whole, was marked by a very widespread shortage of rainfall, and this was more especially true of the latter half. Over the Plains and most districts to eastward the chief rainfall of the month came about the 9th to 12th, but only in a few districts did this amount to more than a quarter or a third of the month's normal quantity. From eastern Kansas northeastward to the regions around Lakes Michigan and Superior the month brought moderate to rather heavy rainfall, the second week being particularly wet, and in North Dakota and northern Minnesota there was much rain, rather well distributed through the first half of the month, but generally heaviest about the 7th. In most of the Ohio Valley and near Lake Erie and Chesapeake Bay moderate to heavy showers came during the first three days. Florida and the west Gulf coast region likewise had much rain, well distributed in time, and in north Pacific districts there were rather good rains, chiefly during the final week of the month.

On the whole, the weather of the month was very favorable for maturing the majority of crops and for outdoor work, but by the end much of the country, particularly from the Mississippi Valley eastward, was hampered by severe drought, which delayed seeding of winter grains and the preparation of the soil for such work. Livestock in most parts of the West and Southwest did rather well, but in much of New Mexico and western Texas continued thin and poor.

OCTOBER.

For the third year in succession October was warm over the greater part of the country; and like October of 1921, the month, in the majority of States, had scanty rainfall and few storms of any importance. The first ten days were warm in practically every State, and temperatures were especially high at this time in interior districts, where many stations recorded higher marks than any October records of preceding years.

About the 6th to the 10th rains of considerable amount and usually of much benefit reached nearly all the eastern half of the country, while southeastern districts had much rain later in the month, and especially heavy rains occurred in northwestern California and the western parts of Oregon and Washington during the final two weeks.

Except in the driest regions, which included the westernmost part of the chief winter-wheat belt, and in Florida, where the heavy rains were very unfavorable, the month's weather was almost everywhere reported as very satisfactory. The killing frosts that occurred were seldom early enough to find any crops subject to injury.

NOVEMBER.

In its leading temperature features November, 1922, was much like October; but the distribution of precipitation was decidedly different. The first two-thirds of the month had mild weather, without serious interruption, over the Plains States and all districts to eastward, the opening week of the month being particularly mild for November in the Mississippi Valley. Meanwhile the Rocky Mountain, Plateau, and Pacific regions experienced cold weather for the season, especially during the first fortnight. From the 21st to the 30th the Mississippi Valley and the States to eastward had mainly cold weather, while to westward most districts had mild weather, especially the Dakotas, Nebraska, Wyoming, and Montana; but the extreme Northwest was cold, save near the coast.

The most notable rainfall of the month was on or near the 12th, when the eastern parts of Kansas and Oklahoma received large amounts. The November precipitation was decidedly scanty in most of the Atlantic States, but from the vicinity of the Mississippi River westward to the western limit of the Great Plains, save in a few sections, the month's precipitation was above the normal, and usually much above, some States here recording the wettest November of record, or almost the wettest.

There were some heavy falls of snow in the high Sierra districts of California during the first ten days, also in some parts of the Rocky Mountain States, Nebraska, and the Dakotas. From Minnesota eastward the snowfall of the month was unusually light for November.

The month's weather was mainly favorable, though the prolonged dryness caused much inconvenience in some Eastern States, and there was too much rain for some purposes in the Middle Western States. The breaking of the drought in the southern Rocky Mountain States and the western part of the southern Plains was very favorable, and in most of the important winter-wheat States east of the Rockies the conditions were helpful to small grains.

DECEMBER.

The record of December, 1922, shows unusual contrasts as to the temperature and the precipitation in different parts of the country. In the Southeast it was the warmest or almost the warmest December for 30 years or more, while in the far Northwest it was the coldest or nearly the coldest December in a like period. The precipitation over Tennessee, Mississippi, and considerable parts of the States adjoining was about as great as ever yet recorded there in December, while an area centering in Kansas had no precipitation or practically none.

The first two-thirds of the month were mainly cold in all northern portions and in the far West, being exceedingly cold in Montana and generally from the Cascades eastward to the northern part of Minnesota; however, during the early part of the month it was comparatively mild in the northern districts from Minnesota and Iowa eastward, while in California, Nevada, and vicinity it turned somewhat warmer about the 12th. Meantime from Utah and eastern Arizona east to the south Atlantic and southern middle Atlantic coast temperatures were almost constantly higher than normal, save that in the southern Plains and lower Mississippi Valley there was a brief cold spell about the 13th and a longer one about the 19th.

About the 20th a marked change to milder temperature overspread the northwestern and north-central districts and the rest of the month was mainly mild for winter throughout the country, though in some northeastern and Atlantic coast districts, also a few other scattered areas, this portion of the month was as cold as normal or slightly colder.

From the middle and lower Mississippi Valley eastward the month's precipitation was generally well above normal, but from Maryland northeastward and in the Lake region the amounts were mainly less than normal, though not seriously deficient save in a few areas. From the upper Mississippi Valley and South Dakota southwestward to the Rio Grande and the southern borders of Arizona and California there was a marked deficiency. Over most of California, Nevada, and Utah, and the States to northward, and usually in Montana and North Dakota the monthly totals were close to or above normal, and considerable excesses were the rule in the central and northern portions of Utah and Nevada, in western and north-central Oregon, and in central California, also near the south-central coast of that State.

There was little snowfall in New Mexico, Arizona, and southern California, but otherwise the States of the West had considerable snow at high elevations, and the more northern of them in nearly all portions. In the Plains States and to eastward the snowfall was usually scanty, and the southern limit was quite far north for December. There was, however, considerable snow in North Dakota and northern Minnesota, also in the vicinity of Lake Erie and to eastward and northeastward. The amounts were large in southwestern Maine and adjacent districts, where a heavy snowstorm occurred on the 28th.

As to outdoor work, progress of winter grains, and livestock conditions varied greatly, but were mainly favorable for the two former. Livestock shrank from scantiness of feed in several southern districts and suffered from cold in most northern.

TORNADOES, 1922.

The tornadoes of 1922 are individually described in the paragraphs that follow, where the States are taken up alphabetically, then the tornadoes within the State limits chronologically. In the Monthly Weather Review several of these tornadoes have already been described at some length among "Contributions," while practically all were mentioned in that division entitled "The weather of the month"; but reports of a few came too late for such mention, while it has occasionally happened that since the Review was compiled more complete information has come to hand and has led to revision of the designation of a storm.

The distribution of the 1922 tornadoes was not notably unusual, though the South Atlantic States had fewer than in most years; as frequently happens, there was none reported from any locality west of the Continental Divide. As to casualties, it is unusual that no single tornado, as far as could be learned, cost more than 16 lives, the number of fatalities from the long Illinois-to-Ohio storm of April 17. For number of tornadoes the period March 13–14 stands at the head for 1922, 11 tornadoes occurring and affecting 6 different States.

Chart 5, as in preceding years, shows the tracks of only such storms as are considered tornadoes, the direction of motion being indicated by the arrow head. In every case the arrow is necessarily far broader than the actual width of the path of damage, drawn to scale; also in the majority of cases the arrow must be made too long in order to be distinguishable.

Tornadoes are mainly local in character, and their distribution shows much irregularity from year to year. A chart showing the tracks of these storms for a single year should not be construed as indicating the usual conditions.

Alabama.—There were eight tornadoes in the State during 1922, all but two of them occurring in March. On February 5, about 3 a. m., a tornado visited Enterprise, Coffee County, in the southeastern part of the State. It moved northeastward between 1 and 2 miles, with path about 200 yards wide. One boy was killed and there was property loss of about $40,000.

On March 14, at the time of numerous tornadoes from Oklahoma eastward and southeastward, three tornadoes covered short paths, doing but slight damage, in Alabama. All moved toward the northeast. The earliest was about 1:30 p. m., near Citronelle, Mobile County, in the southern portion. About 4 p. m. the second formed in northwestern Limestone County, close to the Tennessee line, which it soon crossed; this storm was nearly 300 miles north-northeast of the Citronelle storm, and about 60 miles north-northwest of the third storm. This third tornado was noted near St. Bernard College, Cullman County, about 8 p. m.

About nightfall, March 19, a tornado developed in Lee County, just west of Salem, and moved to the east or east-northeast, with path at times as much as 200 yards wide. At Goat Rock two persons were killed and at several points there was considerable damage. After traveling 10 miles the storm came to the Chattahoochee River, here forming the State line, and it may have gone on into Georgia.

On March 31, within a few hours of the occurrence of tornadoes in southeastern Arkansas, two parts of Mississippi, and north-central Tennessee, there were two tornadoes in northern Alabama. Near the boundary of Colbert and Lawrence Counties a tornado demolished several houses at an hour not reported; but it seems possible that this was the tornado which caused

damage in southern Itawamba County, Miss., about 60 miles to southwestward, at 1:30 a. m. It was about 3 a. m. when the other tornado struck Crane Hill and Cullman, in Cullman County, in the northern part of the State, approximately 50 miles southeastward of the neighborhood where the houses were razed by the tornado just mentioned. The storm at Cullman was very close to the short path of the third tornado of March 14, but this later storm rather probably crossed the corners of Morgan and Marshall Counties, though no damage was reported there, then did considerable damage in southeastern Madison County, north of the Tennessee River. In all, it covered about 50 miles, and the damage is estimated at $100,000. No lives were lost, as far as was learned, but three persons were hurt.

On April 5, at an hour not reported, a tornado occurred in northern Pike County, causing some damage, though its path apparently was short. This was in the southeastern part of the State; but in northeastern Alabama and in central Georgia that day there was wind damage, which, however, seemed not to be the work of tornadoes.

Alaska.—No tornadoes reported.

Arizona.—No tornadoes reported.

Arkansas.—On January 4, about 5 a. m., there was a tornado near Fallsville, Newton County, in the northwestern part of the State. No details of direction of advance or of dimensions of the track were reported, but it was probably short. There were three persons killed, and property loss was $2,000. This same morning, a little earlier, one tornado or more occurred in northeastern Oklahoma, approximately 100 miles northwest of Fallsville. About 9 a. m., January 7, there was a tornado near Jacksonville, Pulaski County, in the central part of Arkansas, resulting in two deaths and $5,000 damage to property.

On the morning of March 14, about the middle of a period of 28 hours when numerous tornadoes occurred from Oklahoma to Alabama, three well-separated places in eastern Arkansas were visited, apparently by three unconnected storms. The northernmost place is Kensett, in White County, where damage was slight, but one person was fatally injured. About 55 miles distant, south by west, is Gethsemane, in the northern part of Jefferson County, where the tornado killed six and caused property loss of $40,000. The tornado that struck Arkansas City, Desha County, 70 miles south-southeast of Gethsemane, caused one death and damage of $15,000. All these storms were short, apparently, and there is no indication that the one at Arkansas City, which is on the Mississippi River, was felt in the State of Mississippi on the left bank of that river.

On March 30, a few hours before tornadoes occurred in Mississippi and Alabama, two points in southern Arkansas were struck, probably by distinct tornadoes of short path. At Prescott, northern portion of Nevada County, the hour was 4 p. m., and there were no deaths, while property loss was but slight. About 90 miles to southeastward, Crossett, in the western part of Ashley County, had no fatality, but property valued at $5,000 was destroyed.

On April 4, only five days after the tornado at Prescott, Boughton, in the same county but 5 miles to northeast, had a small tornado, with track 3 miles long and 100 yards wide. The storm is reported as moving to the northwest. There was damage amounting to $3,000, but no death was reported. In Texas that day a tornado occurred, and the next day there was one in Alabama.

On April 16, about 10 p. m., shortly before the earliest of the group of tornadoes in Illinois, Indiana, and Ohio started, there was a violent storm, probably a tornado, in the west-central portion, close to Dyer, Crawford County. The storm moved eastward, probably only a short distance, with path a half mile wide. One death resulted and the damage was several thousand dollars.

California.—No tornadoes reported.

Colorado.—On the morning of November 4, a few hours before the occurrence of tornadoes in Kansas and Oklahoma, eastern Colorado was visited by two tornadoes, or perhaps by two appearances of a single tornado. From the southern part of Crowley County, a few miles south of Sugar City, about 5 a. m., the earlier tornado traversed that county, crossed the northern border into Lincoln, and covered considerably more than half the length of that county, to a

point near Genoa, about 7 a. m. In all, this tornado covered 80 miles, in direction very slightly east of due north, with path from 100 yards to a mile in width. Four deaths resulted, all in a single family in the southern part of Lincoln County; but most of the $105,000 damage was very near the end of the storm path. About 100 miles northeast of the end of this path is the beginning of the second path, where the storm came about 9:30 a. m., in the northeastern part of Yuma County; from that county the tornado went on into Phillips, and ended near the northeastern corner of that county, after moving about 30 miles, almost exactly northward, and always within a few miles of the Nebraska border. The track was 300 yards wide, one person was killed, and there was $25,000 property loss.

Florida.—No tornadoes reported.

Georgia.—No tornado reported surely within the limits of the State. The tornado in Lee County, Ala., about dark on March 19, after traveling 10 miles in an easterly direction, reached the Chattahoochee River, which forms the State line; it is possible that it went on into Georgia, which would mean the western part of Harris County in that State; but at most it could hardly have gone more than a mile or two or done more than trifling damage in Georgia.

Hawaii.—No tornadoes reported.

Idaho.—No tornadoes reported.

Illinois.—There were apparently but two tornadoes within Illinois during 1922, both within 24 hours, on April 16–17. It was about 11 p. m., on the 16th, when the earlier storm was first noted near Oakdale, in the southwestern part of Washington County, in the southern portion of the State; it traveled in a direction a little east of northeast, 140 miles within the State, through Washington, Jefferson, Marion, Clay, Effingham, Jasper, and Clark Counties, to the Indiana line. The width of the path varied, but was usually less than 200 yards. There were 4 killed in the eastern part of Washington County, and another in Jasper, and the injured from the storm were 47. The damage, amounting to $275,000, was chiefly in Washington, Clark, and the northeast part of Jasper. The later tornado was noted about 3:30 p. m., near Ogden, in the eastern part of Champaign County, in the east-central portion of the State, and it moved at first eastward then more toward northeast, crossing Vermilion County, continuing into Indiana and across that State into Ohio. In Illinois the path was 35 miles long and about 100 yards wide; 2 were killed and property loss was $20,000.

Indiana.—The tornado activity of the year in Indiana, as in Illinois, was confined to a few hours about the middle of April. About 2 a. m., on the 17th, the first tornado was felt, and it moved northeastward a short distance in the southwestern portion of Parke County, causing damage of $10,000, but injuring no one. This was almost certainly the long Washington-to-Clark tornado, which had caused 5 deaths and great damage in Illinois, though it was not reported in northwestern Vigo County, Ind., which it must have crossed. In all, the storm covered about 150 miles in about three hours. There were two other tornadoes in western Indiana that night, each of short path, and but a few miles from the Illinois line; but no track in Illinois is connected with either of them. Each moved northeastward, the earlier, in southwestern Warren County, occurring about 2:30, killing 1 person, and causing property loss of $50,000, while the later, in southern Newton County, about 3, resulted in 2 deaths and $6,000 worth of destruction. These three storms were at intervals of about 40 miles, and were abnormal in that the southernmost was the earliest and the northernmost the latest.

About 4 the following afternoon the Champaign-Vermilion tornado crossed the Illinois-Indiana line into Warren County, and continued across the entire State, heading a trifle south of east for two-thirds of the course, then toward east-northeast. Of the eight counties traversed, the damage was substantially all in the first two—Warren and Fountain—and the sixth and seventh—Madison and Delaware. In the first case about 8 miles of serious damage was left, with the path averaging 100 yards wide, and in the second case about 25 miles, but the width usually from 100 to 300 yards. The deaths in the portions were 11 and 3, respectively, and the total damage was about $400,000. In Warren County, where most of the deaths occurred, the afternoon storm was but a few miles from the path of the 2:30 a. m. storm of this date.

Iowa.—During 1922, nine storms in Iowa are thought to have been tornadoes, but all save three covered less than 20 miles; yet one that traveled but 16 miles, on April 6, caused far more property loss than all the other tornadoes of the year combined, save only the very longest one, the storm of July 16, and it caused also the single death from violent wind action in the State that year.

About noon, February 1, east-central Iowa had a short tornado near Monticello, in the northern part of Jones County; this headed northeastward and did $1,000 worth of damage.

The April 6 tornado was but a short distance southwest of the center of the State, from near Dallas Center, Dallas County, to Sheldahl, in the northwest part of Polk County. This 16-mile path to northeastward was traversed about 8:30 to 8:45 p. m., 1 person was killed, and there was $200,000 property loss. Two days later, on the evening of the day when numerous tornadoes occurred in northern Texas and southern Oklahoma, and when violent windstorms thought not to have been tornadoes were reported from northeastern Kansas and northwestern Missouri, two counties in eastern Iowa had tornado action, which probably should be regarded as the work of one storm. Near Bennett, in the eastern part of Cedar County, the tornado moved about 10 miles northward, about 9:30 p. m. It is probable the storm lifted, turned to northeasterly direction, and moved over the western and northern portions of Clinton County, then descended in the southeast part of Jackson, near Preston, approximately 30 miles northeast of the northernmost part of the Cedar County track. Near Preston the hour was 10:30 p. m., the direction was northeastward, and the path was short, ending several miles southwest of the Mississippi River. Cedar and Jackson Counties each reported $1,000 damage.

Two days later yet, April 10, in the afternoon, two tornadoes formed in southwestern Iowa, practically on the Missouri line, and apparently united into one storm. This was about seven hours after a destructive tornado in southwestern Missouri, 250 miles to the southward. The western of the Iowa tornadoes was noted near Braddyville, southeastern part of Page County, not far from 4 p. m.; the path was to northeastward for about 6 miles, with damage of $2,000. Approximately 25 miles east of Braddyville, the second tornado was noted near Athelstan, in the southeast part of Taylor County, at 4:30 p. m.; it advanced at first northwestward, and then turned more to northeastward when near the center of the northern border of Taylor County. While no damage was reported from the western part of that county, yet it is probable the Braddyville storm advanced above the ground in the direction it first took, for this would have brought it to the place where and at the time when the Athelstan storm turned northeastward. The track continued across southern and eastern Adams County to near Creston, Union County, where the storm came at 6 p. m. This Athelstan-Creston path was 40 miles in length, and the property loss was reported as $10,000.

On the 5th of May, about 4:30 p. m., another tornado visited Page County, starting not many miles northwest of Braddyville, and passing near Page Center in its 18-mile course to northwestward. For so long a tornado path there was but little harm, $1,000 worth being reported. Three days later, about the same hour, there was a tornado of 17-mile track in eastern Iowa, from Tiffin to North Liberty, Johnson County, the direction being northeastward. This storm caused damage of $30,000.

From 4:30 to 7 p. m., on July 16, a tornado traveled from Gowrie, in the southwestern part of Webster County, about 75 miles to Newton, in Jasper County. This was in the center of Iowa, and the movement was to southeastward or east-southeastward. While the damage aggregated $500,000, no person was even injured, so far as could be learned. The last Iowa tornado of the year was in the northeast portion, near Colwell, in the northeastern part of Floyd County, about 5:15 p. m., July 30; it was a comparatively small tornado, covering 3 miles in its southeastward course, and doing about $1,000 damage in a path 200 yards wide. There was a violent windstorm, perhaps a tornado, in northeast Kansas the previous evening; a small tornado was observed near Charleston, S. C., but a few minutes previous to the Colwell tornado, while southeastern Michigan had a small tornado the next day.

Kansas.—Though the tornado in extreme northeastern Oklahoma, on January 4, and the small tornado near Kansas City, Mo., on March 5, were surely within very short distances of

the borders of Kansas, yet there was apparently no tornado this year actually in Kansas till April. During the night of April 8–9, when a tornado was noted in eastern Iowa, and a violent windstorm, probably not a tornado, in northwestern Missouri, there was a severe storm in Doniphan County, the most northeastern in Kansas, but it is thought this was not a tornado. On April 23, according to a report, a small tornado formed about 2 miles northwest of Leoti and advanced about 5 miles southwestward, causing some damage. This was in Wichita County, in the west-central part of the State.

About 9 p.m., May 10, there was a windstorm, probably a small tornado, 18 miles southwest of Hays, which would be near where Ellis, Rush, Ness, and Trego Counties come together; this is somewhat to westward of the center of the State; the direction was not reported, and the damage was not great. Nebraska and Minnesota each reported a tornado the same evening.

On four different dates during July there were violent winds over portions of Kansas, and each time some of the information that was secured suggested the occurrence of one or more small tornadoes; but it seems better to reckon the storms not tornadoes and to count the damage in the table on a later page. On July 6, about 5 p.m., the vicinity of Dodge City had the first storm; on the 10th, after 7 p.m., the city of Wichita, other parts of Sedgwick County, and Harvey County, the next to north, and Butler County, the next to east, witnessed vast destruction of property, largely in the oil fields, but the brief winds of great force within this storm-swept area were presumably "straight-line" gusts, rather than tornadoes. The two later storms of the month, occurring near the eastern border, were more sharply defined, yet are thought not tornadoes; one came on the 23d, near Ottawa, Franklin County, and the other the evening of 29th, south of Winchester, in Jefferson County.

It is reported that there was a tornado near Leoti, this time on the northeast side, on the 5th or 6th of August; apparently it was both smaller and less destructive than the one of April 23 in the same vicinity.

In the south-central part of the State, Fellsburg, in Edwards County, was struck at 2:36 p.m., September 8, by what was probably a tornado. The storm moved northeastward, leaving a track of damage a half mile wide and 2 miles long, with a loss figured as $5,000. What was probably the same storm was felt at Macksville, in southwestern Stafford County, about 12 miles northeast of Fellsburg, but the injury there was not great.

On November 4, when tornadoes struck eastern Colorado early in the morning and northeastern Oklahoma about nightfall, there were violent winds in three distinct portions of Kansas during the afternoon, and in two of these there seem to have been tornadoes. Clark is one of the southern border counties, and in its northern portion the tornado formed between noon and 1 p. m., southeast of Minneola, and advanced 9 miles northeastward, doing considerable damage. At Beloit, Mitchell County, in the north-central portion of the State, the tornado covered a short path, apparently, and the property loss was comparatively small; neither the hour of occurrence nor the direction taken by the storm was ascertained. This place is 170 miles northeast of Minneola.

Kentucky.—No tornadoes reported.

Louisiana.—On the morning of March 14, within a few hours of the occurrence of tornadoes at many places from Oklahoma to Alabama and Tennessee, one occurred in southeastern Louisiana, near Anchorage, West Baton Rouge Parish, leaving devastation in a path 100 yards wide and less than a mile long. The storm moved northeastward, 3 were killed, and the loss of property was $50,000.

It is thought that there was no other real tornado within the State during 1922. The violent wind in Red River Parish, March 30, though it caused great damage, seems not to have been a tornado. Many miles to east-northeastward, that afternoon, the tornado at Crossett, Ark., was probably about 7 miles north of the Louisiana line, even when nearest. Similarly, the small tornado of December 26, at Port Arthur, Tex., was just a few miles away from Louisiana.

Maryland and Delaware.—No tornadoes reported.

Michigan.—On June 16, a few hours after the occurrence of two tornadoes in Wisconsin, there were two tornadoes in lower Michigan, and a third is suspected. Hart, in Oceana County, is but a few miles from Lake Michigan, and about half way from the southern boundary to the tip of the lower peninsula; the tornado came early in the evening, and caused a property loss of $28,000, even though the path was short. The other sure tornado was near Lansing, 100 miles to the southeast of Hart; here the storm occurred about 9:30 p. m., moving northeastward, with path about 80 yards wide and comparatively short. The damage was $2,500. At Edmore, not far from midway between Hart and Lansing, there was probably but a violent thundersquall.

On July 31, according to reports, there was a small tornado at Rollin, in the western part of Lenawee County, which is near the southeastern corner of the State. The hour and details of the path and damage have not been reported. On the previous day there were tornadoes in Iowa and South Carolina.

Minnesota.—On May 3, about 7 p. m., a tornado formed 2 miles southwest of Northfield, Rice County, in the southeast part of the State, and traveled 4 miles northeastward, with path 25 yards wide, doing $2,000 damage. Trim Belle, Pierce County, Wis., is about 40 miles distant from Northfield, in the direction the Northfield tornado was heading; and, in spite of the absence of reports of destruction between, it is almost sure the violent storm, probably a tornado, that was felt at Trim Belle the night of the 3d was the Northfield tornado. On May 4 there were tornadoes in Texas, and on the 5th and 8th in Iowa, also on the 7th in Oklahoma. On the 10th, about the same time as the occurrence of a tornado of little consequence in western Kansas and a very serious tornado in Nebraska, there was a tornado in northwestern Minnesota, Pennington County, which was felt in St. Hilaire at a late hour, and passed on to do other injury in the farming country to northeastward. The size of path was not reported; no fatality was mentioned, but the damage was estimated as $15,000.

A violent storm, probably a tornado, in Richland County, N. Dak., on July 18, is reported as advancing almost or quite to Wahpeton, which is just across the Red River from Wilkin County, Minn.; but no damage is reported from the Minnesota side.

Mississippi.—There were apparently 9 tornadoes in the State during 1922. On March 14, when a number of tornadoes visited the western and central cotton States, there were two in northeastern Mississippi, but the tornado in Arkansas City, Ark., though close to Mississippi soil, probably was not felt on the left bank of the river. About 1:30 p. m., Corinth, Alcorn County, was severely damaged by a tornado which seems to have formed about 3 miles southwest, and advanced northeastward, the track sometimes exceeding 100 yards in width, but usually being narrower. The property loss was $250,000, mainly to houses in town, but no deaths resulted, although 15 persons were injured. Approximately 55 miles to southward, in the southern part of Itawamba County, there was a tornado early the same afternoon, probably a short-path storm, distinct from the Corinth storm. The Itawamba storm traveled to northeast, with path a quarter mile wide; one man was killed and several buildings were destroyed. These Mississippi tornadoes were several hours later than the Arkansas and Louisiana tornadoes, simultaneous with the one in Mobile County, Ala., but considerably earlier than the much nearer tornadoes in northern Alabama and southern Tennessee, which seem to have been distinct storms.

But a few days later, at an early hour on March 20, in the southwestern part of the State, what was probably a tornado was noted in Franklin County, whence it advanced eastward into Lincoln County; 1 person was killed and 10 were injured; and some buildings were destroyed with heavy loss of livestock. About 80 miles away, to east-northeastward, Mize and Summerland, in the southern part of Smith County, and Soso and Laurel, in Jones, also Bay Springs, in the western part of Jasper County, report damage, seemingly by tornado, during the night of the 19th–20th. It is believed the Franklin-Lincoln tornado did not reach this region, but there was probably a short tornado at Bay Springs, with another tornado, advancing to east-southeastward, striking the other four places named. There had been a tornado in eastern Alabama about 7 p. m. of the 19th, a few hours previous to this storm activity in Mississippi.

On the night of March 30–31, about the time when, it is reported, there were tornadoe in Arkansas, Tennessee, and Alabama, no less than four widely scattered localities in Mississippi had violent winds, but at Greenville, Washington County, and Wesson, Copiah County, tornadic action is not indicated. Two rather remote localities do seem to have had tornadoes—the first in the west-central part of the State, in northern Warren and southeastern Issaquena Counties, where the hour is not known and the damage was mainly to timber; and the second in southern Itawamba County, near the locality of one of the March 14 tornadoes, the hour being 1:30 a. m., the 31st, and six persons suffering injury, while there was some property damage. This March 31 Itawamba County tornado was possibly the same storm as the more northwestern of the Alabama tornadoes of the early hours of the 31st.

In the early hours of December 27 there were violent storms in three Mississippi counties. It is probable there were two tornadoes, the earlier starting about 12:30 a. m., at a point 2 miles east of Edwards, which is in the western part of Hinds County, about 20 miles east of Vicksburg. The movement was northeastward for probably only a few miles, and the track was apparently narrow. Six cabins were destroyed, and in the wreck of one of them five members of a negro family were killed. Not far from 100 miles to north-northeastward the other tornado was felt in the eastern part of Grenada, Grenada County, at 1:15 a. m.; direction and length of the path are not reported, but it was 50 yards wide and the damage was estimated as $100,000. Although no reports of storm damage came in from two intervening counties, Calhoun and Pontotoc, it was probably this Grenada storm which was felt in northern Lee County early this morning, causing considerable property loss. The vicinity is about 80 miles northeast of Grenada.

Missouri.—On March 5, about 4:45 p. m., the northwestern part of Jackson County had a miniature tornado, forming in the valley of Big Blue River, about 5 miles east of the heart of Kansas City. The damage is estimated at $2,000, chiefly to traction and electric-light systems.

On April 8 there were violent winds, with some indications of tornadoes, in Nodaway County, in the northwestern portion. Although there were tornadoes a few hours earlier in parts of Texas and Oklahoma, and a tornado was recorded at 9:30 p. m. that day in eastern Iowa, yet the probability is that the winds in Missouri were not tornadoes, and the damage is included in the table on a later page.

Very soon afterwards, on the forenoon of the 10th, there was an undoubted tornado in southwestern Missouri, the path being one of the longest without any marked gap that was found in the country during 1922, in fact, 49 miles. It appeared in northern Lawrence County, 5 miles west of Miller, crossed the northwest portion of Greene County, and was last noted near Morrisville, in southern Polk County. In Greene County the width of the path was reported as an eighth to a quarter of a mile. The direction was, on the whole, somewhat to east of northeast, but during the last few miles it was about north-northeast. The hour was about 9 a. m. The storm caused three deaths and $100,000 injury to property. That day, about 4 or 5 p. m., two tornadoes occurred in southwestern Iowa, forming very close to the Missouri border.

During the early hours of September 3 what was probably a small tornado moved northeastward through part of Liberty, Clay County, in the western portion. There was no damage heard of in the surrounding country, and even in the town the damage was not large.

Early on the morning of November 1 Webb City, Jasper County, in the southwestern portion of Missouri, was hit by a violent storm, probably a small tornado, moving northward; the southern and northern parts of the city were affected, the storm passing over the business district between. A woman was killed and there was damage of $75,000.

Montana.—Near Square Butte, southeastern part of Chouteau County, a little northwest of the center of the State, there was a violent windstorm on August 14, ranch buildings suffering considerable injury. The information secured indicates that this was probably a small tornado.

Nebraska.—During the evening of May 10 a tornado formed in the northern part of Gosper County and moved north-northeastward across Dawson County and through the south-central and eastern parts of Custer, being near the center of the State where it was last noted. In all, the storm covered 60 miles, but the width of path is not reported. The losses were fully $100,000. The storm was especially destructive near Weissert, Custer County, and here a person was killed.

There were early reports of three or more deaths at Lexington, Dawson County, but these were not verified.

About 10 p. m., July 8, the tornado which struck St. Charles, S. Dak., seems to have started near Brocksburg, on the Nebraska side of the line, 15 miles southwest of St. Charles. Brocksburg is in the eastern part of Keyapaha County, which is not far from the center of the northern boundary of Nebraska; the information is that some barns near there were destroyed. The tornado at about the same hour, probably a little earlier, at Lake Andes, S. Dak., over 30 miles east of St. Charles, seems not to have been felt in Nebraska. However, Bloomfield, Nebr., in the eastern part of Knox County, 90 miles east-southeast of Brocksburg, is reported to have been hit by a tornado at an early hour of July 9, several persons being injured; it is thought this was a third tornado, probably of short path, distinct from the other tornadoes of the night.

On the morning of November 4 the second Colorado tornado, which occurred in Yuma and Phillips Counties, moved northward about 30 miles, always quite close to the Nebraska line, but it apparently did not cross that line. After noon that day tornadoes were felt in Kansas and Oklahoma, and there is a report that a tornado late that evening cut a wide swath through the southern part of Lexington, Dawson County, Nebr. This is one of the places that was affected by the tornado of May 10.

Nevada.—No tornadoes reported.

New England.—The afternoon of June 11 saw violent winds in several portions of New England, and there were some suggestions of tornadic action in North Weymouth, Mass., and vicinity; but probably there was no real tornado in New England.

At Antrim, in southwestern New Hampshire, there was a tornado on September 15, about 9 p. m. The path is reported as 500 feet wide, and was apparently at least 2 miles long, the direction being eastward or southeastward. The damage was probably as much as $10,000, as two barns, many smaller buildings, numerous fruit trees, and much timber were destroyed.

New Jersey.—No tornadoes reported.

New Mexico.—There were three small tornadoes during 1922, the first and second only three days apart. The first was in the southern part of Torrance County, near the center of the State, on the afternoon of May 30; starting 7 miles west of Cedarville, it moved slowly southeastward 2 or 3 miles, with path 200 yards wide, but the losses were small. The second was about 100 miles to north-northeastward, and occurred at 4 p. m., June 2, near Onava, San Miguel County. It was brief, moved to southeast, and did damage of $2,000. The scene of the third was 100 miles to northeast of Onava, near Malpie, eastern part of Colfax County, close to the edge of Union; it came at 2 p. m., August 4, and traveled 3 miles southeastward, causing damage of $5,000 and injuring two people.

New York.—In the large number of violent local winds experienced on June 10 and 11, there seem to have been two true tornadoes. Prattsburg, in the northern part of Steuben County, in western New York, was struck about 6 p. m. of the 10th, the advance being to southeastward. The damage was about $25,000. The next day, about 4 p. m., the second tornado visited Greene and Columbia Counties, crossing the Hudson River a mile north of Athens. This storm traveled to northeastward, with path 20 miles long and 1,000 feet wide, and the damage was fully $100,000.

The tornado noted at Corry, Pa., on the afternoon of August 25, was close to the New York boundary, but seems not to have crossed it.

North Carolina.—Near Evansdale, Wilson County, in the east-central portion a tornado traveled 2 miles northeastward about 9.30 a. m., March 7, with path 200 to 300 yards wide. Several houses were destroyed and flying timbers killed one person; the property loss was estimated as $18,000.

On May 18, about 6:45 p. m., the northern part of Alexander County, which is in the western portion of the State, had a longer tornado, the path being followed 10 miles, in direction north of east, the width being 175 yards. Buildings and timber were destroyed and several people hurt. The estimate of damage is $12,500.

North Dakota.—There was a severe windstorm, probably a tornado, on July 18 in the eastern part of Richland County, which is the southeasternmost of the State. The direction was southeastward, and a strip was swept from Galchutt to Wahpeton, 12 miles long and a mile wide; several people were hurt, and there were many buildings destroyed.

About 7 p. m., September 2, a violent windstorm crossed the Missouri River near Bismarck, and reports indicate that it was felt for about 60 miles, the storm moving eastward across the eastern half of Morton, completely across the southern part of Burleigh, and a short way into Kidder County. This track of damage was from 2 to 4 miles wide. Near the eastern edge of Morton there was a small tornado within the track, the cloud being seen, and the wreckage also indicating a tornado.

Ohio.—On April 7, the day before several tornadoes were noted in Texas and Oklahoma, there was an intense storm, which was probably a tornado, in the southwest corner of Athens County, which is in the southeast part of the State. There was considerable damage in and near Albany. The storm seems to have moved east-northeastward.

About 5 p. m., April 10, a few hours after a severe tornado visited southwestern Missouri, there was a long-path tornado in west-central Ohio, apparently starting in eastern Montgomery County, about 4 miles northeast of Dayton. The path was to northeastward across the northwest corner of Green County, then across Clark and into Champaign; then a break occurred, but the storm appeared beyond Union County in the western part of Delaware, now moving more to east-northeast. In all, the storm traversed nearly 70 miles, but the width of path was but 50 yards, as noted not far from the beginning. One man was killed, and the property loss was about $150,000.

Late on the 17th of April, the tornado which had started in eastern Illinois, and crossed Indiana, causing 16 deaths in those States, was felt in western Ohio, beginning 20 miles from the Indiana line in Noble Township, on the western edge of Auglaize County. It advanced 20 miles to east-northeastward, to the southeast part of Allen County. It was now about 8 p. m., and the end of path was about 210 miles from the start in Illinois, in direction a little north of east; and four hours and a half had elapsed. The damage in Ohio was about $500,000, but no fatalities were reported.

Late in the afternoon of June 11, a day when numerous severe storms occurred in Kentucky and in the States to northeastward, there was one brief, intense storm in Ohio, at Buckeye Lake, Licking County, near Newark. The direction was eastward. Three deaths resulted and there was damage of $150,000. The débris indicated this was a tornado.

Oklahoma.—One tornado, or possibly more than one, occurred in northeastern Oklahoma on the morning of January 4. Rather probably there was a tornado of narrow path, striking in two noncontiguous counties and passing above the surface over about 75 miles between, the tornado being soon followed by strong winds over a wide area including the tornado-struck strip, these winds causing in the aggregate more loss than the tornado. Turley, in the northern part of Tulsa County, reports the tornado passing at about 2 or 2:30 a. m. The direction was northeastward, and the damage was $15,000. Miami, Commerce, and Picher, in Ottawa County, the most northeastern of the State, were visited about 4 a. m., probably in the order named, by the tornado, now heading to north-northeast. It is about 10 miles from Miami to Picher, and the latter is very close to the Kansas boundary, which, however, the tornado probably did not cross. The tornado damage in Ottawa County was about $100,000. The path is stated as being but 200 feet wide at Picher, but a quarter mile at Turley. There were many injuries, but no fatalities. The tornado in northwestern Arkansas at a later hour this morning is to be considered a distinct storm.

On the afternoon of March 13, about 3:50 p. m., the earliest of a number of tornadoes noted within a period of 28 hours from Oklahoma to Alabama and Tennessee was felt at Sulphur, Murray County, moving to northeastward, with path averaging 150 yards wide; there were 2 deaths here and property loss was $50,000. Murray and Latimer Counties are both in the southeastern quarter of Oklahoma; in the western part of the latter is Gowen, almost 90 miles east-northeast of Sulphur. Here the time was 5:45, the path was 2 miles long and 200

yards wide, and the storm is stated to have moved to northwest. The damage again was $50,000, but the fatalities were 10. In view of the directions of advance reported, the absence of reports from the counties between, and the distance intervening, which is greater than a tornado often covers in less than two hours, the Sulphur and Gowen tornadoes are thought to have been distinct storms.

Early on the morning of April 8 a tornado was noted a few miles from Frederick, Tillman County, in the southwestern part of the State. One person was killed and several buildings were destroyed or damaged. At 7:15 this morning, Lawton, in Comanche County, the next northeast of Tillman, was struck, the storm moving northwestward or northward with narrow path, and 3 deaths, with $15,000 property loss, resulting. Electra, Tex., only a few miles from the Oklahoma line, had a tornado about 5 this morning; the locations of Electra, Frederick, and Lawton are such that there were almost certainly two distinct storms, the rural districts near Frederick noting one, and the other going from Electra 45 miles to Lawton, in direction north of northeast, the prevailing direction of the Texas tornadoes of the day.

On the evening of May 7 a tract several miles wide in southeastern Greer and northwestern Kiowa Counties had severe winds from the southwest. Within this tract, at Granite, a definite, narrow path, such as a true tornado makes, is reported, with $50,000 damage, but no fatality. Otherwise it is uncertain whether there was tornado action in that part of the State (the southwestern), in spite of 2 deaths and $240,000 property loss. However, 140 miles to northeastward, Ceres, in western Noble County, reports a tornado moving northeastward at 11:30 p. m. that night, with 1 death and $15,000 damage.

On the evening of May 21, among the destructive winds reported, it is thought that a true tornado occurred at Guthrie, Logan County, moving northeastward about 7 p. m., and causing damage of $250,000.

About the hour of sunset on November 4, the day when tornadoes occurred in eastern Colorado and probably in Kansas and Nebraska, a disastrous tornado struck the northwestern part of Creek County, Okla., which is somewhat northeast of the center of the State. It was noted after 5 p. m. at Shamrock, soon afterwards at Drumright, and about 6 p. m. at Mannford, indicating a northeastward movement of 20 miles. The width of path was from 300 yards to less than 200. The loss of life was 6, and of property about $500,000.

Oregon.—No tornadoes reported.

Pennsylvania.—The high winds of June 11 and 12 caused 2 deaths and much damage in the southeast portion, but apparently the only tornado in Pennsylvania then was in Sullivan County, in the northeast part, passing near Dushore and moving in all 8 miles southeastward with path less than 200 yards wide, about 10:30 p. m. of the 11th. This was several hours after the New York and Ohio tornadoes of the day and the severe thundersquall that caused great loss of life in and near New York City. The Pennsylvania tornado caused death of 1 person and damage of about $40,000.

In the eastern part of Erie County, which is the most northwestern of the State, about 4 p. m. of August 25, a tornado with path only about 100 feet wide passed eastward through the country west of Corry and through the north part of the city itself, doing $10,000 worth of damage.

Porto Rico.—No tornadoes reported.

South Carolina.—In Aiken County, only a few miles from the Georgia boundary, a tornado occurred about 5:30 a. m., March 7, moving northeastward, with path 50 to 200 yards wide. There were 5 deaths and property loss of about $45,000.

Late in the afternoon of July 30 Charleston had a violent thundersquall, with highest wind from the northeast, causing some damage and 1 death; 6 miles away, the Kennerty Farms seem to have had a true tornado, of short path, moving northeastward, at 5:45 p. m., the path 450 yards wide, the damage $1,000.

South Dakota.—Except late on July 8, there was probably no tornado in the State during 1922. Two places in the southeast part report tornado action that night, and unless there is a marked error in the hours stated, there were two tornadoes. At Lake Andes, Charles Mix

County, the storm is said to have come from the west at 10 p. m.; many buildings were destroyed, the damage being $25,000, and 15 persons were hurt. About 30 miles west of Lake Andes is St. Charles, Gregory County; there, at 10:15, a tornado came, which seems to have started near Brocksburg, Nebr., 15 miles to southwest; at St. Charles it traveled eastward; and nearly every building in the village was wrecked or damaged, with property loss of $150,000 and 1 fatality.

Tennessee.—On March 14, when tornadoes occurred in several Southeastern States, one which probably formed in northern Limestone County, Ala., traversed the southern part of Giles County, Tenn., heading northeastward for fully 7 miles, about 4:15 or 4:30 p. m.; there was damage of $15,000, and 10 persons were hurt.

There was apparently a tornado in and near Cleveland, Bradley County, in the southeastern part of Tennessee, at an early hour of March 31. This place is about 100 miles east-northeast of Madison County, Ala., where the last damage by the nearer of the two Alabama tornadoes of that morning was reported. The Cleveland tornado probably moved eastward, with path less than 100 yards wide, and did several thousand dollars' worth of damage in two strips a few miles apart.

On the night of April 14 there was marked wind damage in several counties in the north-central part of Tennessee, also in Sevier County, remote from these, on the eastern border. In the eastern part of Wilson and the northwestern corner of Smith there was probably a tornado of wide path, a half-mile to a mile; the storm moved northeastward 20 miles, about 7:30 p. m., and caused $200,000 damage; several persons were injured and some stock was killed. There may have been another tornado, or more than one, in central Smith County and in the western and north-central parts of Putnam County, which lies east of Smith. In Davidson, next county west of Wilson, and in Sevier the storms were less intense and no rotary winds were indicated. Only the Wilson-Smith storm is reckoned a tornado and charted.

Texas.—There were apparently 14 tornadoes in the State during 1922. The first of them affected the central and northeastern portions of Jefferson, the most southeastern county of the State. It was noted at 4:57 p. m., March 25, approaching Fannett, and at 5:15 reached the city of Beaumont, 13 miles northeast of Fannett; there is no indication it went beyond Beaumont. The path was from 200 to 400 feet wide. At Fannett 2 persons were killed; the seriously hurt were 24 at Fannett and 5 at Beaumont; and the damage was $125,000, chiefly at Beaumont.

On April 4, about 6 a. m., a tornado moving southeastward struck Goldthwaite, Mills County, in central Texas; the track was but 20 yards wide, and the damage was about $8,000.

On April 8, between midnight and noon, many places in Texas reported tornadoes, and there were probably four in all, the second of them crossing the Red River to reappear in Oklahoma. The earliest was the most disastrous, and struck Rowena, in the southern part of Runnels County, just after midnight; this is somewhat west of the center of the State. The storm proceeded northeastward, or slightly to north of northeast, coming to Oplin, Callahan County, at 1:30 a. m., to Breckenridge, Stephens County, at 2:30, and to Graham, Young County, at 3. This means an advance of 130 miles in slightly less than three hours, or a rate of 44 miles an hour, approximately. Only at Graham was the width of path reported, being 120 yards. The deaths were 12—7 at Rowena and 5 at Oplin—and the property loss was $82,000. The hour of the tornado at Electra, Wichita County, close to the Oklahoma boundary, was reported as about 5 a. m., and probably it was the storm that struck Lawton, Okla., about 7:15. At Electra, which is 65 miles north-northwest of Graham, the storm moved northeastward, with path 100 yards wide, and 1 death and damage of $25,000 resulted. It was about 8 a. m. when the third tornado started, near Cisco, Eastland County, which is the next to eastward of Callahan. This storm was near Ranger at 8:15, and near Caddo, in Stephens County, at 8:30. The distance from Cisco to Caddo is about 30 miles, and the path was reported as 100 feet, a quarter mile, and 100 yards in width at the several places. The track was about 15 miles east of the first tornado's track, which was made six hours earlier. There were no deaths, but several injuries, and the property loss was $81,000. The final tornado was noted at Cleburne,

Johnson County, at 10 a. m., and while no reports have come from the populous districts between, it is probably the storm which did damage at Whitewright, on the eastern edge of Grayson County, 95 miles northeast of Cleburne, at 11:30 a. m. Between Cleburne and Whitewright this tornado, probably not reaching the surface, would have crossed the line joining Fort Worth and Dallas about midway between those cities. The path was 440 yards wide at Cleburne and 500 at Whitewright; the damage was $25,000 at the former place, with 1 death, and $11,000 at the latter, without any fatality. This final track is about 75 miles to southeastward of the track of the third tornado; but as Caddo is not quite abreast of Cleburne, the final storm is to be rated as somewhat over an hour behind the third one. The direction of the tornadoes of the 8th is stated as northeastward at all points save Graham, where southeastward direction was reported, but is probably in error.

One of the best reported cases of simultaneous, parallel tornadoes is that of the two storms of May 4, at and near Austin, the State capital. The storms seem to have formed a few minutes before 4 p. m., to northward of the city, and took parallel courses about 3 miles apart, moving mostly to southwestward, though turning somewhat as they advanced. The tracks were fully 6 miles long, probably much longer. The width of track of the eastern storm was reported as 50 yards near the middle of the course, but as 225 yards somewhat farther on; the western storm, at one point, as 25 yards. The latter injured but 2 people, while the eastern storm killed 12 and injured 50. The $500,000 property loss was almost all the work of the eastern storm. (One arrow on Chart 5 for both.)

On May 14, at 7:05 p. m., Eagle Pass, on the Rio Grande, in Maverick County, was visited by a tornado which crossed from Mexico and moved northeastward. There was damage of $50,000. Eight hours later, at 3 a. m. of the 15th, a violent storm which was probably a tornado, occurred about 220 miles to northeastward of Eagle Pass, and 30 miles northeast of Austin, in Williamson County, near Taylor. The path was 5 or 6 miles long, the direction being first southward, then more eastward. The damage by wind was probably about $2,000, the hail that accompanied and destroyed growing crops being far more serious.

During the last minutes of May 16 and the first of May 17 there was a very violent storm, in part a tornado, which affected northern Jim Wells and western Nueces Counties, in southern Texas. It was first noted in the former about 11:30, and was just southwest of the center of Agua Dulce, Nueces County, at 12:10; but this was near the middle of the 30 or 35-mile path which the storm took to southeastward or south-southeastward. The width of the track of rotary winds was stated as about a mile. The damage clearly due to wind—buildings demolished or moved and wire lines torn down—seems to have been about $30,000; the hail damage, over a stretch including but many times wider than the tornado strip, was many times greater.

The third southeastward-moving tornado noted in Texas within a week passed over Barker, western part of Harris County, which is in the eastern portion of the State, about 4 a. m., May 20. The harm to buildings and crops was $5,000.

About 1:30 p. m., August 19, a strip in the outskirts of Abilene, Taylor County, to northwest of the center of Texas, was swept by what was probably a small tornado, moving to northeastward. The strip was 150 yards wide, and only 600 yards long, and the property loss was but $5,000.

Jefferson, Marion County, in northeastern Texas, had a severe windstorm early December 5; but it is thought this was not a tornado, and the damage is included in the table on a following page.

A small tornado passed over the northern part of Port Arthur, Jefferson County, about 7:25 p. m., December 26, heading northeastward, with path 100 to 150 yards wide and two miles and a half long. The damage was about $10,000. There were two tornadoes in Mississippi only five or six hours afterwards.

Utah.—No tornadoes reported.

Virginia.—There were two tornadoes during August, each not far from the center of the State. The first was in the western part of Albemarle County and the second in the eastern part of Augusta, only a few miles away, as the counties are adjoining. It is noteworthy that

the only other tornado reported in the State since 1918 was in Augusta County during 1921. The earlier 1922 tornado, about 3 p. m. on August 7, was very carefully studied and charted. It was first noted between Crozet and Mechum, and covered 11 miles in direction slightly south of east, with track about half a mile wide; but about 4 miles from the start a second tornado separated from it, moving over a mile northward, then about 4 miles eastward, thus diverging from the parent storm, so that the paths were over 2 miles apart where the northern storm ceased its damage. The property loss in all was about $20,000. The later tornado, about 4:30 p. m., the 16th, left a track at and near Fishersville 50 yards wide and 2 miles long, moving southeastward; there was damage of $10,000.

Virgin Islands.—No tornadoes reported.

Washington.—No tornadoes reported.

West Virginia.—No tornadoes reported.

Wisconsin.—Trim Belle, Pierce County, in northwestern Wisconsin, was struck by a bad storm, probably a tornado, on the night of May 3, this being almost undoubtedly the same tornado noted at Northfield, Minn., 40 miles distant, and headed about toward Trim Belle. The destruction of buildings in Pierce County meant a loss of $10,000.

There were violent windstorms in many parts of Wisconsin during the last hour or two of June 9 and during the early hours, the later forenoon, and the afternoon of the 10th. There are some reports suggesting tornado action, as in Chippewa County, in the northwestern part, and in Green Lake and Fond du Lac Counties, in the southeastern part; but the weight of evidence is that no true tornado occurred at this time, so the half million dollars' damage is placed in the table on a following page. Within a week afterward, however, there were two tornadoes, the earlier occuring in northwestern Wisconsin on the 15th, about 7 to 9 p. m. It started near Roberts, southwest of the center of St. Croix County, and went northeastward to the corner where Polk, Dunn, and Barron Counties come together with St. Croix. There was some damage in each of these, but mainly in Barron, the storm heading east-northeastward in that county to near Chetek. The length of path was about 50 miles, and the width where tornadic winds were felt was at times but a few rods, but is reported as increasing to 2 miles at other times; and strong winds, causing much damage, were felt over an even wider strip. The tornado caused 8 deaths, of which 5 were in Barron County, and property loss of $500,000. Eighteen hours after this tornado was last felt, at a point 125 miles east of the east end of its track, another started; this was about 2:30 p. m., June 16, in the southwest part of Langlade County, a few miles west of Antigo. This second tornado traveled to northeastward about 2 miles, with path from 50 to 100 yards wide; no deaths resulted, but damage amounted to $50,000. Within a few hours after this second Wisconsin tornado, there were two tornadoes in lower Michigan.

Wyoming.—No tornadoes reported.

HAIL, 1922.

Charts 6 and 7 indicate where injurious hail occurred during the warm season, April to September, inclusive. The information was secured chiefly from records of regular and co-operative stations of the bureau. Moderately heavy hail, causing only slight damage, is shown on Chart 6, while heavy, or decidedly destructive hail is shown on Chart 7. Hail too light to cause damage fell at thousands of stations, and it is not attempted to chart such falls. Hailstorms are often extremely local, and in their occurrence from year to year show much irregularity; therefore the distribution that appears on the charts should not be construed as the usual condition.

In some cases destructive hailstorms have been accurately reported over paths of such length that it is more suitable to indicate them by lines than by dots, on Chart 7. One such storm occurred on June 16, in the south-central part of the Michigan lower peninsula; and not a very great distance to northeastward, on August 7, there was another storm, following an even longer path, with southeastward trend. In eastern Indiana an unusually severe hailstorm traveled toward the south-southeast on the forenoon of July 31. On July 25 there were two

paths of considerable length in Montana, one wholly and the other chiefly in the Yellowstone drainage basin. If fuller information were available, some of the series of charted dots would probably be connected into lines, as being clearly scattered reports of hailstorms of long paths.

Outside of the warm season, a few noteworthy reports of severe hailstorms were received, and among them may be mentioned an intense storm a few miles north of Fresno, Calif., on the afternoon of February 26; this was not too early to do some damage to fruit buds, but since it did not fall within the six-month period specified, it has not been entered on either chart. Reports at hand from Alaska, Hawaii, Porto Rico, and the Virgin Islands indicate that there was no fall of hail in any of those sections during 1922 sufficient to cause appreciable damage.

LOSSES FROM WINDSTORMS, 1922.

For the seventh successive year statistics have been collected, chiefly through the field-service officials of the bureau, regarding damage to property and loss of life that resulted from windstorms, other than tornadoes. The results appear in the table following, but the amounts stated are merely estimates of the damage; and often it was not feasible to secure even rough estimates, so symbols were entered instead, but in most cases the losses these symbols stand for were comparatively small. Deaths and fire losses from lightning are not included, even though high winds occurred at the time; and when wind and rain, or wind and hail, caused damage together an effort is made to estimate the share due to wind. As with tornadoes and severe hailstorms, most of the individual windstorms have been mentioned in the chronological lists presented in the several issues of the Monthly Weather Review.

There appears no loss of life in connection with any tropical hurricane, and the only damage from such storms consisted of small amounts in the Virgin Islands about September 16 and in Florida about a month later.

During January the most important losses reported were those occurring in Oklahoma on the 4th, outside of the path of the tornado of that morning. In Missouri, during April, there was especially great loss in and near St. Louis in connection with a thunderstorm the forenoon of the 14th. On May 22 there was vast damage in one of the oil districts of northern Louisiana. Wisconsin experienced great losses in 12 different counties, somewhat scattered, on June 9 and 10; while on the 11th many parts of New York State suffered greatly, the destruction of property apparently being largest in and near Cortland, but most of the loss of life being in or near New York City, where several on land were killed in various ways, and about 70 were drowned through the upsetting of small craft. Two days later there was much loss of property in south-central Indiana. The oil region of Butler County, Kans., saw great destruction on July 10, and many counties of Kentucky with a few of southern Indiana on August 25. After this date there were no notable losses reported as resulting from thunderstorm gusts.

Aside from the deaths in New York on June 11, the most notable tragedy of the year connected with winds not tornadic occurred November 30, on the Michigan shore of Lake Superior, when the wreck of a steamer resulted in the death of 11 of the 18 on board.

Losses from windstorms, other than tornadoes, by months and sections, 1922.

[Figures, except in last column, indicate dollars.]

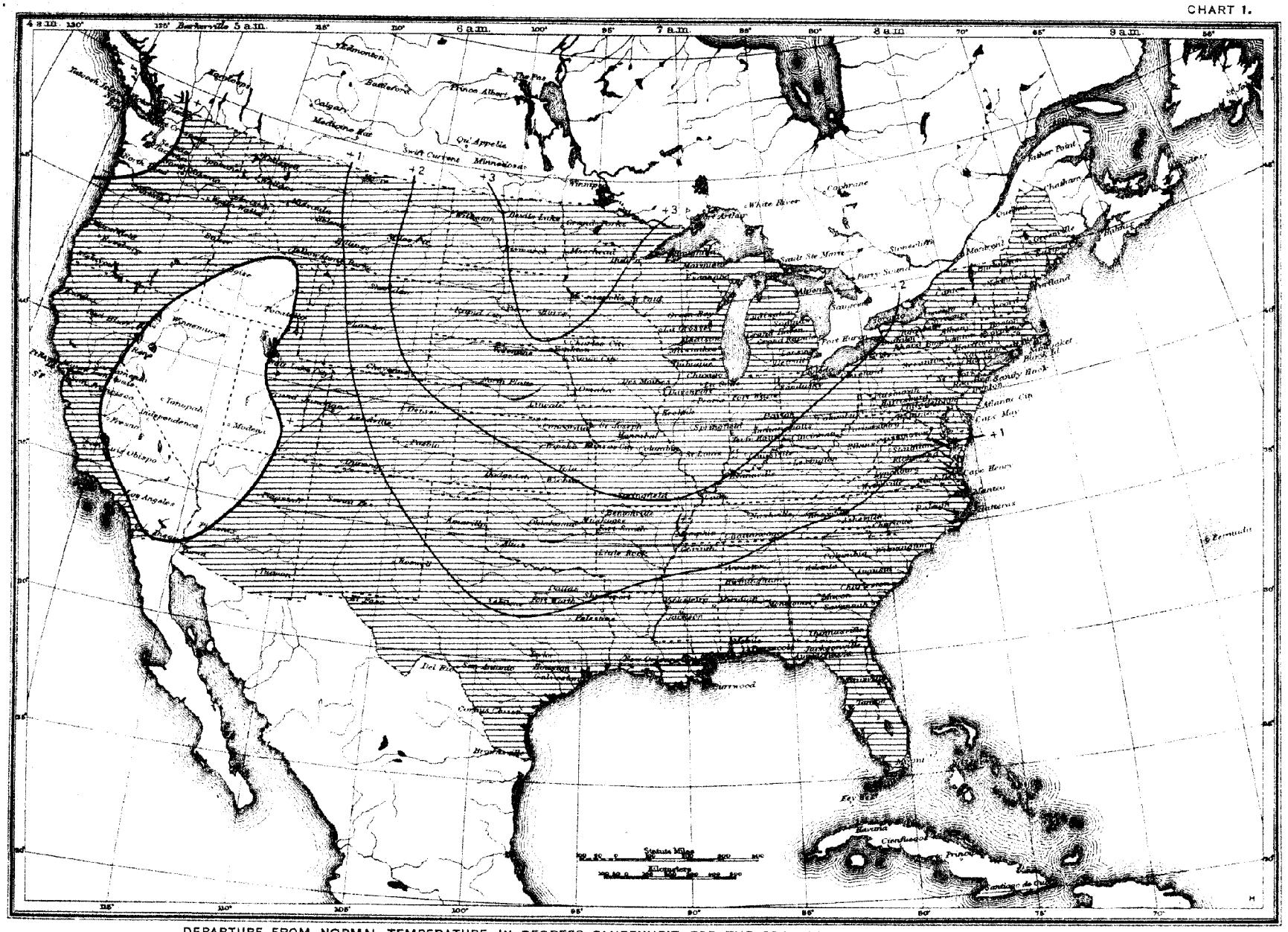
Sections.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.	Number of lives lost.
Alabama		25,500		[1] 3,000	[1] 2,000	(2)							[1] 30,500	
Alaska		(2)									(2)	(2)	(2)	1
Arizona							[1] 250	(2)					[1] 250	
Arkansas			(2)	(2)	10,000		(2)				1,000		[1] 11,000	1
California									(2)				(2)	
Colorado		1,000		(2)	(2)	(2)	[1] 30,000				[1] 800	[1] 50	[1] 31,850	
Florida						3,000				[1] 1,000			[1] 4,000	
Georgia				[1] 5,000		[1] 4,000	(2)						[1] 9,000	1
Hawaii														
Idaho					(2)								(2)	
Illinois	(2)		(2)	[1] 14,000	[1] 750	[1] 77,000	[1] 74,000	(2)	(2)	(2)	[1] 30,000	(2)	[1] 195,750	3
Indiana			(2)	[1] 10,500		[1] 200,000	[1] 500	[1] 125,000					[1] 336,000	2
Iowa		(2)	(2)	[1] 4,500	[1] 2,000	[1] 90,000	[1] 60,000	(2)	(2)		(2)		[1] 156,500	
Kansas				[1] 2,500	[1] 12,000	(2)	[1] 750,700	(2)			(2)		[1] 765,200	1
Kentucky		(2)	(2)	(2)	(2)	(2)	(2)	[1] 750,000					[1] 750,000	3
Louisiana			[1] 75,000		[1] 200,000								[1] 275,000	
Maryland-Delaware	(2)			(2)		(2)	(2)						(2)	
Michigan	(2)			(2)		(2)	(2)	(2)			(2)	(2)	(2)	11
Minnesota					(2)			(2)			(2)		(2)	
Mississippi			(2)		[1] 100,000								[1] 100,000	2
Missouri			3,000	[1] 219,000		[1] 1,000	[1] 41,000	2,000					[1] 266,000	
Montana						[1] 5,000	(2)	(2)					[1] 5,000	
Nebraska					(2)		(2)						(2)	
Nevada					(2)							(2)	(2)	
New England	(2)					(2)	(2)	(2)	(2)	(2)		[1] 2,000	[1] 2,000	1
New Jersey	(2)					(2)							(2)	2
New Mexico		(2)	(2)	(2)	(2)	(2)							(2)	
New York	(2)	(2)	(2)	(2)		[1] 650,000		[1] 8,000	(2)	(2)	(2)	[1] 150,000	[1] 808,000	88
North Carolina	(2)				(2)								(2)	1
North Dakota				(2)	(2)	(2)	(2)		(2)	(2)			(2)	
Ohio			(2)	(2)		(2)	[1] 25,000	(2)	(2)			(2)	[1] 25,000	7
Oklahoma	190,000			[1] 22,500	[1] 319,000		(2)	(2)					[1] 531,500	4
Oregon			(2)										(2)	
Pennsylvania			(2)			(2)							(2)	2
Porto Rico														
South Carolina							(2)						(2)	1
South Dakota					(2)		(2)				(2)		(2)	
Tennessee		[1] 1,000	(2)	[1] 20,000		(2)		(2)		(2)		(2)	[1] 21,000	
Texas		(2)	(2)	[1] 50,000	(2)	(2)	(2)	[1] 2,000	(2)			5,000	[1] 57,000	
Utah		[1] 20,000						(2)					[1] 20,000	
Virginia				(2)	(2)		(2)	50,000					[1] 50,000	
Virgin Islands									(2)				(2)	
Washington	(2)							(2)			(2)	(2)	(2)	
West Virginia						(2)	(2)						(2)	2
Wisconsin			(2)	[1] 100,000		[1] 500,000	(2)	250			(2)		[1] 600,250	
Wyoming					(2)		5,000						[1] 5,000	

[1] Loss not readily estimated in addition to amount of loss stated.
[2] Loss not estimated occurred.

Annual summary, climatological data, Canadian stations, 1922.

[Data furnished by the Canadian Meteorological Service.]

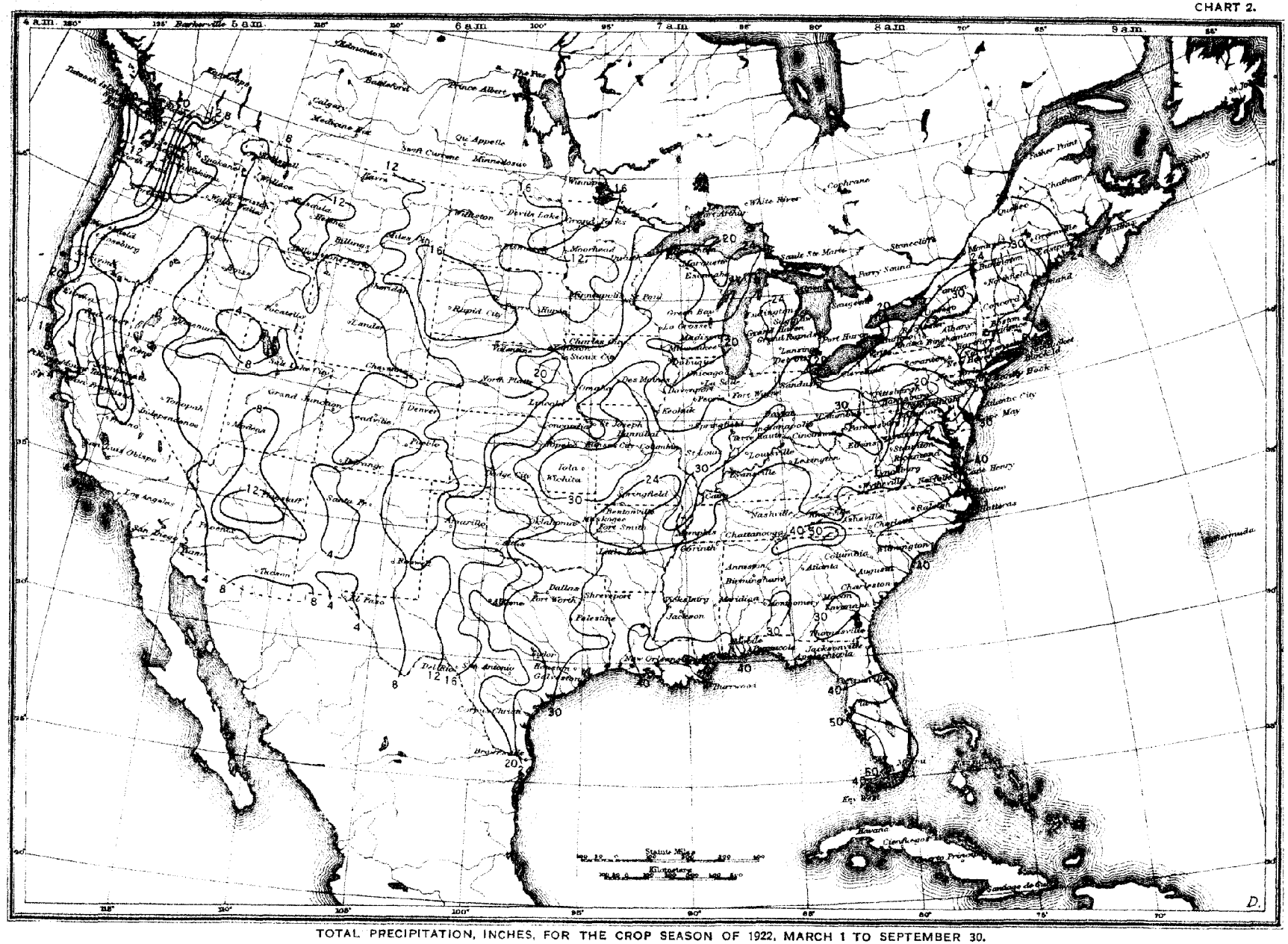
Stations.	Pressure, inches.			Temperature, degrees Fahrenheit.						Precipitation, inches.		
	Station, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours.	Departure from normal.	Mean maximum+mean minimum ÷2.	Departure from normal.	Mean maximum.	Mean minimum.	Highest.	Lowest.	Total.	Departure from normal.	Total snowfall.
Port aux Basques, Newfoundland	.....	.....	.....	37.3	.....	42.8	31.8	72	−12	56.54	.....	172.4
Sydney, Cape Breton Island	29.92	29.97	+0.03	41.2	−0.1	49.3	33.2	84	−19	55.86	+5.58	141.0
Halifax, Nova Scotia	29.88	29.99	+0.02	43.0	+0.2	51.1	35.0	87	−21	50.30	−6.73	89.1
Chatham, New Brunswick	29.93	29.96	+0.02	.....	.....	50.0	.....	92	−32	35.12	−6.17	94.6
Father Point, Quebec	29.96	29.98	+0.05	34.2	−0.6	42.9	25.6	82	−22	28.27	−4.72	84.9
Quebec, Quebec	29.69	30.02	+0.04	40.4	+2.2	49.0	31.9	87	−22	34.34	−7.38	102.8
Montreal, Quebec	29.80	30.01	+0.02	43.4	+1.9	51.1	35.7	86	−15	36.81	−4.18	75.5
Ottawa, Ontario	29.77	30.04	+0.04	43.7	+3.1	53.9	33.6	93	−21	28.02	−4.58	81.1
Kingston, Ontario	29.72	30.03	+0.02	45.6	+2.5	53.1	38.2	85	−14	27.35	−5.46	37.9
Toronto, Ontario	29.63	30.04	+0.02	48.1	+3.9	56.8	39.3	93	−7	29.10	−4.62	50.4
Port Stanley, Ontario	29.43	30.08	+0.05	46.8	+2.1	55.6	38.1	90	−6	29.55	−4.87	45.3
Southampton, Ontario	29.31	.....	.....	44.4	+2.0	52.5	36.3	85	−8	36.53	+2.32	90.5
Parry Sound, Ontario	29.32	30.02	+0.02	42.8	+2.6	52.7	32.8	88	−30	37.59	−0.68	134.5
Cochrane, Ontario	.....	.....	.....	34.1	.....	44.3	23.9	87	−35	21.16	.....	50.0
White River, Ontario	28.65	29.99	+0.01	33.3	+1.2	47.0	19.6	90	−49	16.82	−7.97	59.6
Port Arthur, Ontario	29.30	30.01	+0.01	38.1	+3.7	46.8	29.4	92	−27	19.60	−5.16	50.1
Winnipeg, Manitoba	29.16	30.01	+0.01	38.7	+5.6	48.7	28.6	96	−38	21.43	+0.45	47.0
Minnedosa, Manitoba	28.16	30.02	+0.02	35.8	+4.2	46.2	25.4	91	−41	20.50	+4.05	58.7
The Pas, Manitoba	.....	.....	.....	32.2	.....	43.6	20.8	99	−49	12.67	.....	22.9
Port Nelson, Manitoba	.....	.....	.....	20.5	.....	29.8	11.2	87	−43	19.23	.....	59.6
Qu'Appelle, Saskatchewan	27.68	29.96	−0.02	36.1	+2.8	46.8	25.3	90	−40	22.03	+5.95	84.5
Moose Jaw, Saskatchewan	.....	.....	.....	38.2	.....	49.4	27.0	95	−39	16.54	.....	45.9
Swift Current, Saskatchewan	27.40	30.06	+0.09	38.3	+0.8	50.1	26.6	95	−48	14.27	−1.20	21.4
Medicine Hat, Alberta	27.63	29.91	−0.05	42.6	+2.3	55.1	30.1	99	−38	11.54	−2.26	32.0
Calgary, Alberta	26.39	30.00	+0.07	39.0	+1.8	53.7	24.4	94	−30	10.61	−4.26	30.8
Banff, Alberta	25.34	29.97	+0.04	34.6	−0.1	46.8	22.4	88	−36	12.27	−9.64	59.9
Prince Albert, Saskatchewan	28.40	30.00	+0.02	35.1	+4.6	45.9	24.3	94	−40	15.62	+0.71	34.2
Battleford, Saskatchewan	28.20	29.97	0.00	36.8	+4.1	49.0	24.7	99	−43	10.95	−2.98	16.9
Edmonton, Alberta	27.62	29.93	0.00	36.7	+1.1	48.8	24.6	93	−50	13.77	−2.06	49.8
Kamloops, British Columbia	28.77	30.09	+0.16	45.3	−1.8	55.4	35.3	99	−17	8.00	−3.63	26.3
Victoria, British Columbia	29.79	30.05	+0.05	48.4	−0.2	54.4	42.5	86	21	22.81	−15.33	36.7
Barkerville, British Columbia	25.61	29.95	+0.05	33.8	−2.4	43.4	24.1	77	−23	39.00	+5.44	249.0
Bull Harbor, British Columbia	.....	.....	.....	46.6	.....	53.4	39.9	86	14	63.12	.....	22.5
Prince Rupert, British Columbia	.....	.....	.....	44.4	.....	50.7	38.2	82	8	88.79	.....	51.8
Atlin, British Columbia	.....	.....	.....	31.0	.....	39.2	22.8	78	−33	8.13	.....	38.6
Dawson, Yukon	.....	.....	.....	21.6	.....	31.7	11.5	85	−53	15.27	.....	84.6
Prospect Point, Bermuda	30.00	30.16	+0.07	69.8	+0.1	75.8	63.8	88	44	53.86	−8.05	0.0



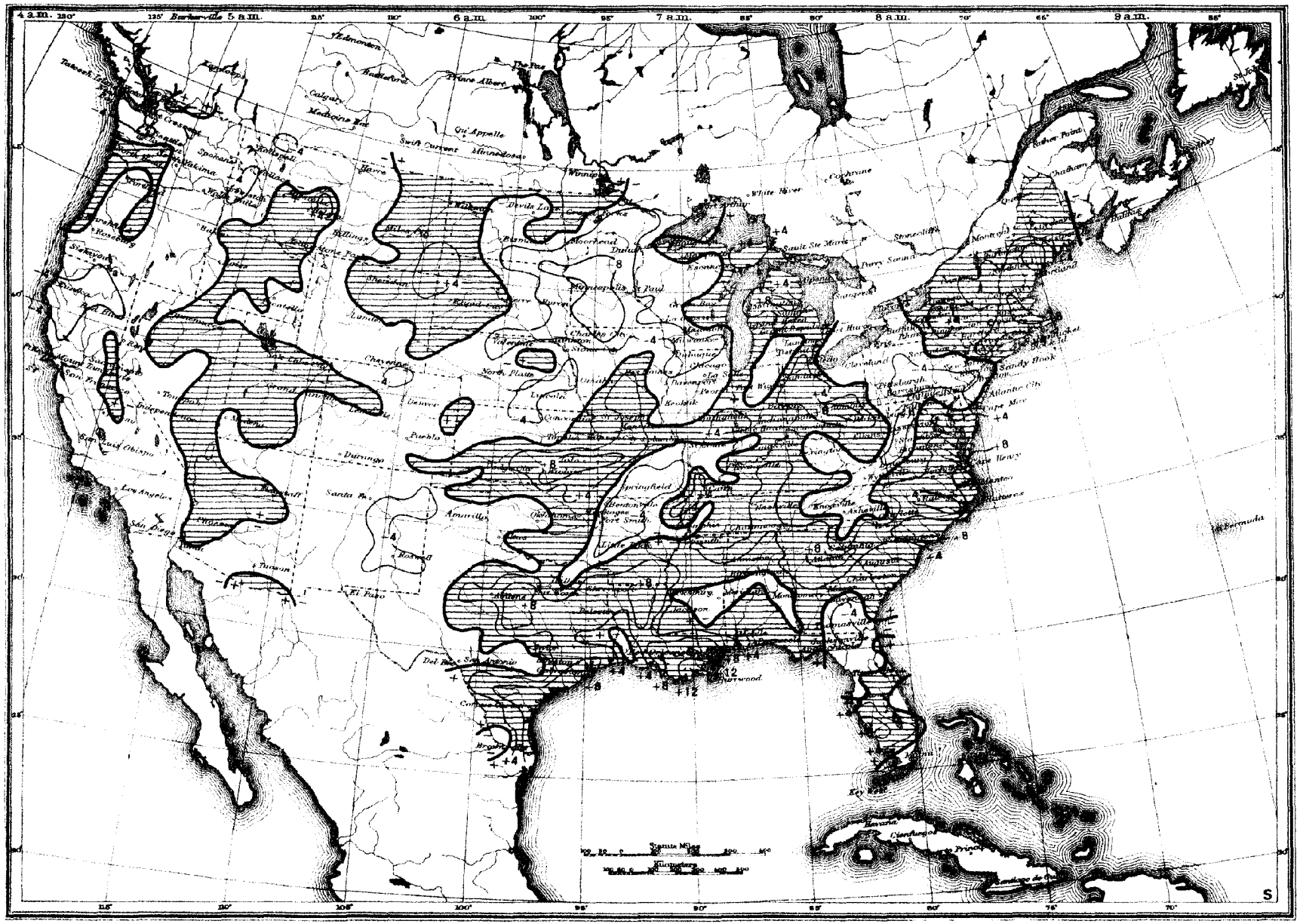
DEPARTURE FROM NORMAL TEMPERATURE, IN DEGREES FAHRENHEIT, FOR THE CROP SEASON OF 1922, MARCH 1 TO SEPTEMBER 30.

Shaded portions show excess (+) and unshaded portions deficiency (—) of temperature. Figures show mean daily excess (+) or deficiency (—) of temperature over areas bounded by light lines

CHART 2.

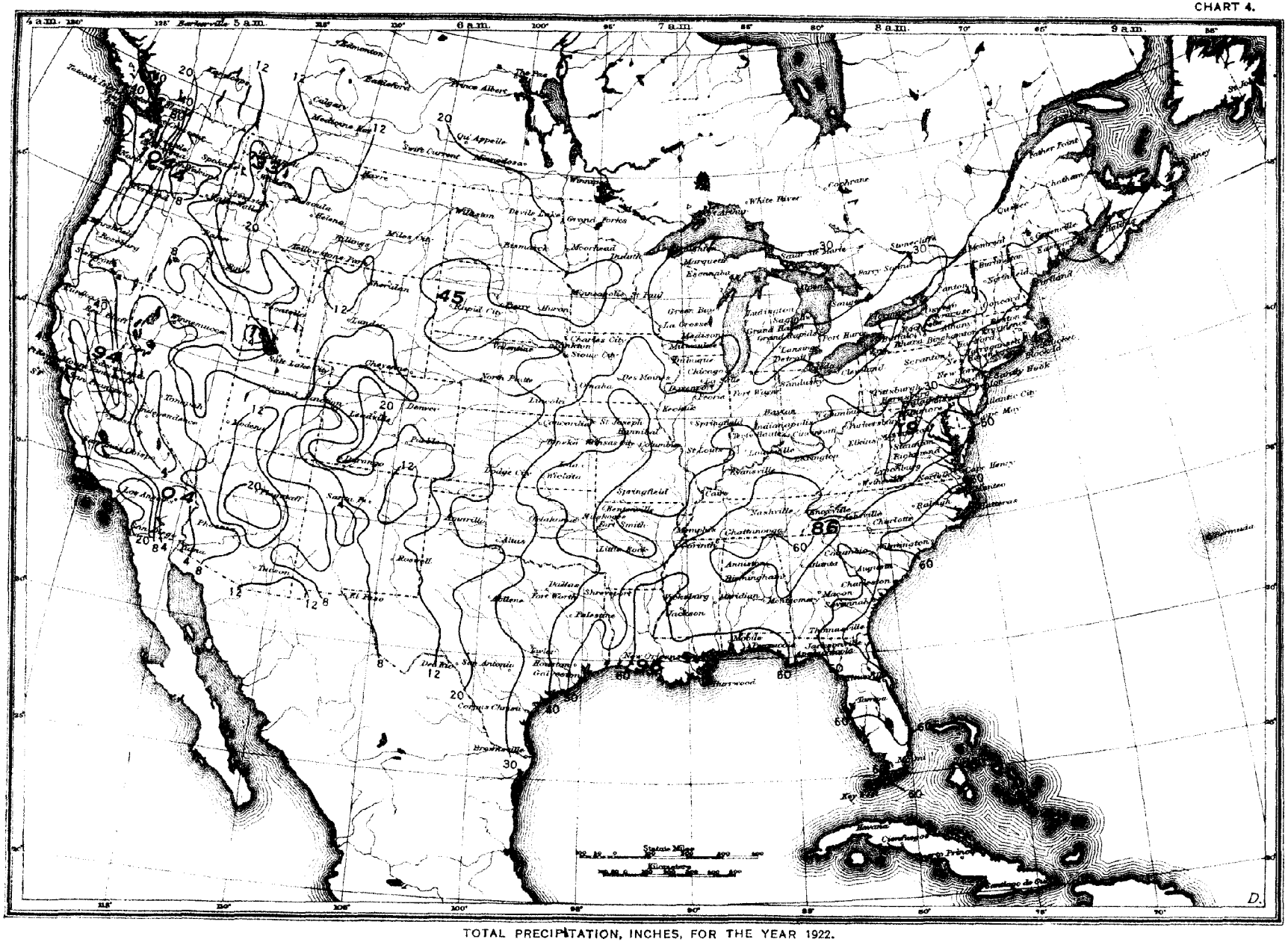


TOTAL PRECIPITATION, INCHES, FOR THE CROP SEASON OF 1922, MARCH 1 TO SEPTEMBER 30.



DEPARTURE FROM NORMAL PRECIPITATION FOR THE CROP SEASON OF 1922, MARCH 1 TO SEPTEMBER 30.

Shaded portions show excess (+) and unshaded portions deficiency (—) in rainfall. Figures show, in inches, amount of excess or deficiency of rainfall over areas bounded by light lines.



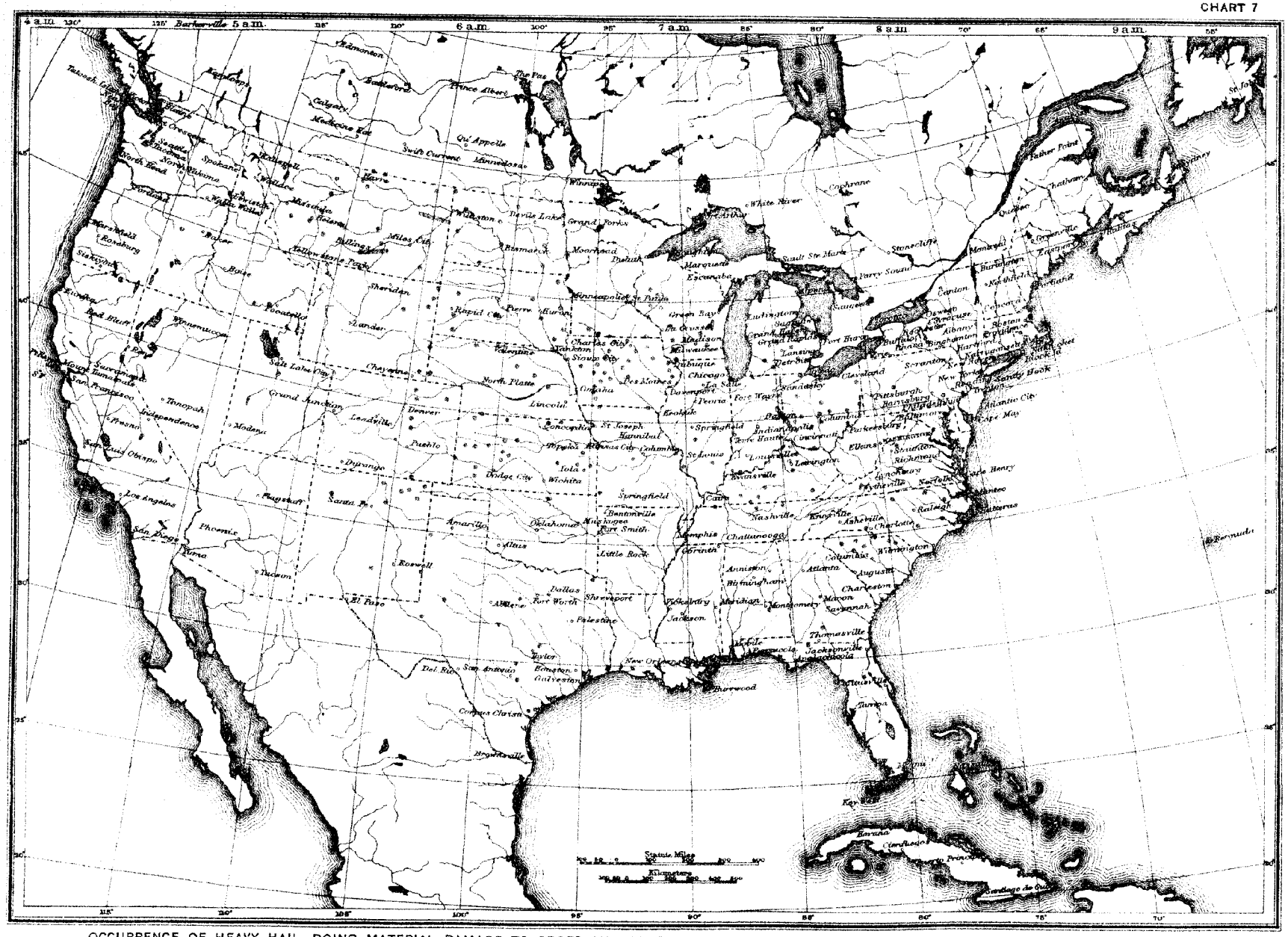
TOTAL PRECIPITATION, INCHES, FOR THE YEAR 1922.

OCCURRENCE OF TORNADOES DURING THE YEAR 1922.

The arrows show the location of tornado paths, and point in the direction of storm motion.

OCCURRENCE OF MODERATELY HEAVY HAIL, DOING SLIGHT DAMAGE ONLY, FOR THE WARM SEASON OF 1922, APRIL 1 TO SEPTEMBER 30.

The dots show the localities where moderately heavy hail fell, as reported by observers of the Weather Bureau and others.



OCCURRENCE OF HEAVY HAIL, DOING MATERIAL DAMAGE TO CROPS AND OTHER PROPERTY, FOR THE WARM SEASON OF 1922, APRIL 1 TO SEPTEMBER 30.

The dots and lines show the localities where heavy hail fell, as reported by observers of the Weather Bureau and others.

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 elevations."

Changes in the elevations of other instruments during 1922 are shown by the figures immediately below, and the dates of such changes are given under appropriate heading.

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, 1922);
T = continuous records of temperature (on December 31, 1922);
W = continuous records of wind (direction and velocity) (on December 31, 1922);
V = continuous records of wind (velocity only) (on December 31, 1922);
R = continuous records of rainfall (on December 31, 1922);
S = continuous records of sunshine (on December 31, 1922).

Summary of stations in operation during the year.

Taking two observations daily (all elements)	174
Taking one observation daily (all elements)	32
Taking two observations daily (temperature, rain, wind, and weather)	39
Taking one observation daily (temperature, rain, wind, and weather)	27
Taking one observation daily (special meteorological and cotton)	2
Taking one observation daily (special meteorological and river)	3
Taking one observation daily (special meteorological and storm warning)	4
Taking one observation daily (cotton)	93
Taking one observation daily (sugar and rice)	4
Taking one observation daily (cotton and river)	29
Taking one observation daily (cotton and rainfall)	34
Taking one observation daily (river)	482
Taking one observation daily (rainfall)	283
Taking one observation daily (sugar and rice and river)	3
Taking one observation daily (corn and wheat)	128
Taking one observation daily (corn and wheat and river)	17
Taking one observation daily (corn and wheat and rainfall)	37
Taking one observation daily (corn and wheat and fruit)	1
Taking one observation daily (cranberry)	10
Taking one observation daily (fruit)	33
Taking one observation daily (fruit and river)	1
Taking one observation daily (fruit and rainfall)	1
Taking one observation daily (cattle)	44
Taking one observation daily (tobacco)	7
Taking one observation daily (alfalfa)	1
Taking one observation daily (alfalfa and cattle)	1
Snowfall	115
Snowfall and evaporation	2
Vessel	151
Storm warning	146
Total paid stations	1,904
Cooperative stations (about)	[1] 4,500
Grand total	6,404

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

TABLE I.—*Latitude, longitude, elevation, etc., of Weather Bureau stations.*

Stations.	Latitude.		Longitude.		Local meridian time faster or slower than 75th meridian.	Elevation Dec. 31, 1922.				Observations began.	Dates of changes in elevation during 1922.
						Barometer above sea.	Thermometer above ground.	Rain gage above ground.	Anemometer above ground.		
	°	′	°	′	h. m.	Feet.	Feet.	Feet.	Feet.		
Abilene, P T W R S	32	23	99	40	1 39 S.	1,738	10	3	52	Sept. 14, 1885	
Albany, P T W R S	42	39	73	45	05 F.	97	102	100	115	Dec. 22, 1873	
Alpena, P T W R S	45	05	83	30	34 S.	609	13	4	92	Sept. 10, 1872	
Amarillo, P T W R S	35	13	101	50	1 47 S.	3,676	10	3	49	Jan. 1, 1892	
Anniston, P T W R S	33	39	85	50	43 S.	741	9	3	57	Oct. 16, 1905	
Apalachicola, P T W R S	29	45	84	58	40 S.	36	42	32	49	July 21, 1913	
Asheville, P T W R S	35	36	82	32	30 S.	2,255	70	61	84	Aug. 22, 1902	
Atlanta, P T W R S	33	45	84	23	38 S.	1,174	190	182	216	Sept. 25, 1878	
Atlantic City, P T W R S	39	22	74	25	02 F.	52	37	33	172	Dec. 10, 1873	
Augusta, P T W R S	33	28	81	54	28 S.	180	62	54	77	Nov. 2, 1870	
Baker, P T W R S	44	46	117	50	2 51 S.	3,471	48	40	53	July 9, 1889	
Baltimore, P T W R S	39	17	76	37	06 S.	123	100	90	113	Jan. 1, 1871	
Bentonville, P T W R S	36	22	94	12	1 17 S.	1,303	11	3	44	Mar. 16, 1906	
Binghamton, P T W R S	42	06	75	55	04 S.	871	10	3	84	Oct. 1, 1896	
Birmingham, P T W R S	33	32	86	50	47 S.	700	11	3	48	Sept. 14, 1895	
Bismarck, P T W R S	46	47	100	38	1 43 S.	1,674	8	3	57	Sept. 15, 1874	
Block Island, P T W R S	41	10	71	36	14 F.	26	11	3	46	Sept. 1, 1880	
Boise, P T W R S	43	37	116	13	2 45 S.	2,739	78	72	86	July 1, 1877	
Boston, P T W R S	42	21	71	04	16 F.	125	115	154	188	Nov. 1, 1870	
Broken Arrow, P T W R S	36	02	95	49	1 23 S.	765	11	4	52	May 12, 1918	
Brownsville, P T W R S	26	00	97	26	1 30 S.	57	53	45	61	Nov. 18, 1875	
Buffalo, P T W R S	42	53	78	53	16 S.	767	247	238	280	Nov. 1, 1870	
Burlington, P T W R S	44	29	73	12	07 F.	404	11	3	48	Mar. 29, 1906	
Cairo, P T W R S	37	00	89	10	57 S.	358	87	80	93	June 1, 1871	
Canton, P T W R S	44	36	75	10	01 S.	448	10	4	61	July 1, 1906	
Cape Henry, P T W R S	36	56	76	00	04 S.	18	8	3	54	Dec. 15, 1873	
Cape May, T W	38	56	74	51	01 F.	17	13	3	49	July 16, 1897	
Charles City, P T W R S	43	04	92	38	1 11 S.	1,015	10	4	49	Nov. 1, 1904	
Charleston, P T W R S	32	47	79	56	20 S.	48	11	76	92	Jan. 5, 1871	
Charlotte, P T W R S	35	13	80	51	23 S.	779	55	47	62	Oct. 6, 1878	
Chattanooga, P T W R S	35	04	85	14	41 S.	762	189	167	213	Sept. 12, 1875	
Cheyenne, P T W R S	41	08	104	48	1 59 S.	6,088	84	75	101	Nov. 1, 1870	
Chicago, P T W R S	41	53	87	37	50 S.	823	140	133	310	.....do.....	
Chicago University, P T W R S	41	47	87	35	50 S.	673	7	3	131	Jan. 1, 1916	
Cincinnati, P T W R S	39	06	84	30	38 S.	628	11	3	51	Nov. 1, 1870	
Cleveland, P T W R S	41	30	81	42	27 S.	762	190	165	201	.....do.....	
Columbia, Mo., P T W R S	38	57	92	20	1 09 S.	784	11	3	84	Aug. 21, 1889	
Columbia, S. C., P T W R S	34	00	81	03	24 S.	351	41	32	57	June 5, 1887	
Columbus, P T W R S	39	58	83	00	32 S.	824	179	171	222	July 1, 1878	
Concord, P T W R S	43	12	71	32	14 F.	288	70	62	79	Nov. 1, 1902	
Concordia, P T W R S	39	35	97	41	1 31 S.	1,392	50	42	58	May 1, 1885	
Corpus Christi, P T W R S	27	49	97	25	1 30 S.	20	11	63	73	Feb. 1, 1887	
Dallas, P T W R S	32	46	96	47	1 27 S.	512	109	92	117	Oct. 15, 1913	
Davenport, P T W R S	41	30	90	38	1 03 S.	606	71	64	79	May 24, 1871	
Dayton, P T W R S	39	46	84	10	37 S.	899	181	176	216	July 10, 1911	
Del Rio, P T W R S	29	20	100	53	1 44 S.	944	64	56	71	Nov. 9, 1905	
Denver, P T W R S	39	45	105	00	2 00 S.	5,292	106	98	113	Nov. 19, 1871	
Des Moines, P T W R S	41	35	93	37	1 14 S.	861	84	76	97	July 29, 1877	
Detroit, P T W R S	42	20	83	03	32 S.	730	218	214	258	Nov. 1, 1870	
Devils Lake, P T W R S	48	07	98	52	1 35 S.	1,478	11	4	44	Dec. 1, 1904	
Dodge City, P T W R S	37	45	100	00	1 40 S.	2,509	11	3	51	Sept. 15, 1874	
Drexel, P T W R S	41	20	96	16	1 25 S.	1,299	10	3	54	June 1, 1915	
Dubuque, P T W R S	42	30	90	44	1 03 S.	698	81	76	96	July 2, 1873	
Due West, P T W R S	34	21	82	22	29 S.	711	10	4	55	Oct. 12, 1920	
Duluth, P T W R S	46	47	92	06	1 08 S.	1,133	11	3	47	Nov. 1, 1870	
Eastport, P T W R S	44	54	66	59	32 F.	76	67	62	85	Apr. 1, 1873	
Elkins, P T W R S	38	53	79	49	19 S.	1,947	59	52	67	Jan. 1, 1899	
Ellendale, P T W R S	45	59	98	34	1 34 S.	1,457	10	3	56	Oct. 8, 1917	
El Paso, P T W R S	31	47	106	30	2 06 S.	3,762	110	102	133	Apr. 1, 1878	
Erie, P T W R S	42	07	80	05	20 S.	714	130	122	166	May 25, 1873	
Escanaba, P T W R S	45	48	87	05	48 S.	612	54	44	60	May 24, 1871	
Eureka, P T W R S	40	48	124	11	3 17 S.	62	73	65	89	Jan. 1, 1887	
Evansville, P T W R S	37	58	87	33	50 S.	431	139	135	175	Dec. 1, 1897	
Flagstaff, P T W R S	35	12	111	37	2 26 S.	6,907	10	3	59	Sept. 9, 1898	
Fort Smith, P T W R S	35	22	94	24	1 18 S.	457	79	72	94	Apr. 13, 1879	

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, 1922. Barometer above sea.	Thermometer above ground.	Rain gage above ground.	Anemometer above ground.	Observations began.	Dates of changes in elevation during 1922.
	°	′	°	′	h. m.	Feet.	Feet.	Feet.	Feet.		
Fort Wayne, P T W R S	41	05	85	10	41 S.	856	113	107	124	June 1, 1911	
Fort Worth, P T W R S	32	43	97	15	1 29 S.	670	106	51	114	Sept. 1, 1898	
Fresno, P T W R S	36	43	119	49	2 59 S.	327	89	82	98	Aug. 18, 1887	
Galveston, P T W R S	29	18	94	50	1 19 S.	54	106	98	114	Apr. 19, 1871	
Grand Haven, P T W R S	43	05	86	13	45 S.	632	54	49	89	May 24, 1871	
Grand Junction, P T W R S	39	04	108	34	2 14 S.	4,602	60	52	68	Jan. 1, 1899	
Grand Rapids, P T W R S	42	58	85	40	43 S.	707	70	70	87	July 1, 1903	
Green Bay, P T W R S	44	31	88	00	52 S.	617	109	101	144	Sept. 1, 1886	
Greenville, P T W R S	34	50	82	24	30 S.	1,039	113	102	122	Oct. 6, 1917	
Groesbeck, P T W R S	31	30	96	28	1 26 S.	461	11	3	56	July 2, 1918	
Hannibal, P T W R S	39	41	91	20	1 05 S.	534	74	68	109	Apr. 16, 1892	
Harrisburg, P T W R S	40	16	76	52	07 S.	374	94	90	104	July 1, 1888	
Hartford, P T W R S	41	46	72	40	09 F.	159	122	116	140	Oct. 7, 1904	
Hatteras, P T W R S	35	15	75	40	03 S.	11	12 11	4	50	Dec. 1, 1880	Mar. 8, 1922
Havre, P T W R S	48	34	109	40	2 19 S.	2,505	11	4	44	May 16, 1892	
Helena, P T W R S	46	34	112	04	2 28 S.	4,110	87	80	112	Apr. 1, 1880	
Honolulu, P T W R S	21	19	157	52	5 31 S.	38	111 86	99 69	119 100	Sept. 1, 1904	May 1, 1922
Houghton, P T W R S	47	07	88	34	54 S.	668	62	57	99	Aug. 26, 1900	
Houston, P T W R S	29	47	95	24	1 22 S.	138	111	104	121	Sept. 16, 1909	
Huron, P T W R S	44	21	98	14	1 33 S.	1,306	59	53	74	July 1, 1881	
Independence, P T W R S	36	48	118	12	2 53 S.	3,957	9	4	41	Dec. 1, 1894	
Indianapolis, P T W R S	39	46	86	10	45 S.	822	194	188	230	Feb. 10, 1871	
Iola, P T W R S	37	55	95	25	1 22 S.	984	11	3	50	Aug. 20, 1905	
Ithaca, P T W R S	42	27	76	29	06 S.	836	82 5	4	100	Oct. 1, 1899	June 9, 1922
Jacksonville, P T W R S	30	20	81	39	27 S.	43	209	198	245	Sept. 11, 1871	
Juneau, P T W R S	58	18	134	24	3 58 S.	80	11	5 4	49 54	Jan. 5, 1917	May 1, 1922
Kalispell, P T W R S	48	10	114	25	2 38 S.	2,973	48	40	56	May 3, 1899	
Kansas City, P T W R S	39	05	94	37	1 18 S.	963	161	141	181	Apr. 21, 1873	
Keokuk, P T W R S	40	22	91	26	1 06 S.	614	64	56	78	July 16, 1871	
Key West, P T W R S	24	33	81	48	27 S.	22	10	3	64	Nov. 1, 1870	
Knoxville, P T W R S	35	56	83	58	36 S.	996	102	96	111	Jan. 20, 1871	
La Crosse, P T W R S	43	49	91	15	1 05 S.	714	11	3	48	Oct. 15, 1872	
Lander, P T W R S	42	50	108	45	2 15 S.	5,372	60	54	68	Aug. 1, 1891	
Lansing, P T W R S	42	44	84	26	38 S.	878	11	3	62	May 1, 1910	
Lewiston, P T W R S	46	25	117	02	2 48 S.	757	40	32	48	Oct. 1, 1900	
Lexington, P T W R S	38	02	84	33	38 S.	989	193	187	230	Oct. 1, 1872	
Lincoln, P T W R S	40	49	96	45	1 27 S.	1,189	11	4	84	Aug. 8, 1894	
Little Rock, P T W R S	34	45	92	16	1 08 S.	357	136	129	144	Aug. 21, 1873	
Los Angeles, P T W R S	34	03	118	15	2 53 S.	338	159	151	191	July 1, 1879	
Louisville, P T W R S	38	15	85	45	43 S.	525	219	214	255	Sept. 11, 1871	
Ludington, P T W R S	43	57	86	27	46 S.	637	60	53	66	Sept. 12, 1912	
Lynchburg, P T W R S	37	25	79	09	17 S.	681	153	146	188	May 24, 1871	
Macon, P T W R S	32	50	83	38	35 S.	370	78	71	87	Apr. 8, 1899	
Madison, P T W R S	43	05	89	23	58 S.	974	70	62	78	Sept. 16, 1904	
Manteo, V	35	54	75	40	03 S.	12	5	3	42	Nov. 10, 1904	
Marquette, P T W R S	46	34	87	24	50 S.	734	77	70	111	May 11, 1871	
Memphis, P T W R S	35	09	90	03	1 00 S.	399	76	69	97	Feb. 28, 1871	
Meridian, P T W R S	32	21	88	40	55 S.	375	85	62	93	Sept. 1, 1889	
Miami, P T W R S	25	48	80	12	21 S.	25	71	64	79	June 3, 1911	
Miles City, P T V S	46	25	105	49	2 03 S.	2,371	48	39	55	Oct. 1, 1891	
Milwaukee, P T W R S	43	02	87	54	52 S.	681	125	117	139	Nov. 1, 1870	
Minneapolis, P T W R S	44	59	93	18	1 13 S.	918	102	92	208	Nov. 6, 1890	
Mobile, P T W R S	30	41	88	02	52 S.	57	125	119	161	Nov. 7, 1870	
Modena, P T W R S	37	48	113	54	2 36 S.	5,479	10	2	43	Jan. 1, 1901	
Montgomery, P T W R S	32	23	86	18	45 S.	223	100	71	112	Nov. 9, 1870	
Moorhead, P T W R S	46	52	96	44	1 27 S.	940	50	43	58	Jan. 31, 1881	
Mount Tamalpais, P T W R S	37	56	122	35	3 10 S.	2,375	11	5	31	Sept. 2, 1898	
Nantucket, P T W R S	41	17	70	06	20 F.	12	14	4	90	Oct. 18, 1886	
Nashville, P T W R S	36	10	86	47	47 S.	546	168	161	191	Nov. 1, 1870	
New Haven, P T W R S	41	18	72	56	08 F.	106	74	68	153	Dec. 10, 1872	
New Orleans, P T W R S	29	57	90	04	1 00 S.	53	76	71	84	Nov. 1, 1870	
New York, P T W R S	40	43	74	00	04 F.	314	414	407	454	do	
Norfolk, P T W R S	36	51	76	17	05 S.	91	170	178	205	Jan. 1, 1871	
Northfield, P T W R S	44	10	72	41	09 F.	876	12	3	60	Mar. 1, 1887	

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, 1922.				Observations began.	Dates of changes in elevation during 1922.
							Barometer above sea.	Thermometer above ground.	Rain gage above ground.	Anemometer above ground.		
	°	′	°	′	h.	m.	Feet.	Feet.	Feet.	Feet.		
North Head, P T W R S	46	16	124	04	3	16 S.	211	11	3	56	Aug. 1, 1902	
North Platte, P T W R S	41	08	100	45	1	43 S.	2,821	11	3	51	Sept. 18, 1874	
Oklahoma City, P T W R S	35	26	97	33	1	30 S.	1,214	10	3	47	Nov. 1, 1890	
Omaha, P T W R S	41	16	95	56	1	24 S.	1,105	115	107	122	Nov. 1, 1870	
Oswego, P T W R S	43	29	76	35		06 S.	335	76	68	91	....do.....	
Palestine, P T W R S	31	45	95	40	1	23 S.	510	64	57	72	Dec. 3, 1881	
Parkersburg, P T W R S	39	16	81	36		26 S.	637	77	68	82	July 1, 1888	
Pensacola, P T W R S	30	25	87	13		49 S.	56	149	131	185	Oct. 27, 1879	
Peoria, P T W R S	40	43	89	36		58 S.	609	11	4	45	Feb. 1, 1905	
Philadelphia, P T W R S	39	57	75	09		01 S.	114	123	114	190	Jan. 1, 1871	
Phoenix, P T W R S	33	28	112	00	2	28 S.	1,108	11	68	81	Aug. 6, 1895	
Pierre, P T W R S	44	22	100	21	1	41 S.	1,572	70	63	75	July 1, 1891	
Pittsburgh, P T W R S	40	32	80	02		20 S.	842	353	345	410	Nov. 1, 1870	
Pocatello, P T W R S	42	52	112	29	2	30 S.	4,477	60	52	68	July 1, 1899	
Point Reyes, P W R	38	11	122	51	3	11 S.	490	7	4	18	Mar. 1, 1889	
Port Angeles, P T W R S	48	07	123	06	3	12 S.	29	8	3	53	Mar. 1, 1916	
Port Arthur, P T W R S	29	52	93	55	1	16 S.	34	58	51	66	Feb. 1, 1917	
Port Huron, P T W R S	43	00	82	26		30 S.	638	70	63	120	July 25, 1874	
Portland, Me., P T W R S	43	39	70	15		19 F.	103	82	75	117	Jan. 15, 1871	
Portland, Oreg., P T W R S	45	32	122	41	3	11 S.	153	68	63	106	Nov. 1, 1870	
Providence, P T W R S	41	50	71	25		14 F.	160	215	211	251	Oct. 22, 1904	
Pueblo, P T W R S	38	18	104	36	1	58 S.	4,685	80	72	86	July 1, 1888	
Raleigh, P T W R S	35	45	78	37		14 S.	376	103	94	110	Apr. 1, 1884	
Rapid City, P T W R S	44	04	103	12	1	53 S.	3,259	50	43	58	Jan. 24, 1881	
Reading, P T W R S	40	20	75	58		04 S.	325	81	73	98	Dec. 1, 1912	
Red Bluff, P T W R S	40	10	122	15	3	09 S.	332	50	40	56	July 1, 1877	
Reno, P T W R S	39	32	119	49	2	59 S.	4,532	74	67	81	Nov. 11, 1905	
Richmond, P T W R S	37	32	77	27		10 S.	144	11	3	52	Oct. 5, 1897	
Rochester, P T W R S	43	08	77	42		11 S.	523	86	77	102	Nov. 1, 1870	
Roseburg, P T W R S	43	13	123	20	3	13 S.	510	9	4	57	July 15, 1877	
Roswell, P T W R S	33	24	104	27	1	58 S.	3,566	75	69	85	Dec. 20, 1904	
Royal Center, P T W R S	40	53	86	29		46 S.	736	11	3	55	May 17, 1918	
Sacramento, P T W R S	38	35	121	30	3	06 S.	69	106	100	117	July 1, 1877	
Saginaw, P T W R S	43	26	83	57		36 S.	641	69	62	77	Oct. 10, 1912	
St. Joseph, P T W R S	39	49	94	51	1	19 S.	967	11	3	49	Apr. 25, 1910	
St. Louis, P T W R S	38	38	90	12	1	01 S.	568	265	258	303	Nov. 1, 1870	
St. Paul, P T W R S	44	58	93	03	1	12 S.	837	236	228	261	.....do.....	
Salt Lake City, P T W R S	40	46	111	54	2	28 S.	4,360	163	156	203	Mar. 19, 1874	
San Antonio, P T W R S	29	27	98	28	1	34 S.	693	119	112	132	Jan. 2, 1876	
San Diego, P T W R S	32	43	117	10	2	49 S.	87	62	55	70	Nov. 1, 1871	
Sand Key, P T W R S	24	27	81	52		28 S.	23	39	6	72	June 1, 1903	
Sandusky, P T W R S	41	25	82	40		31 S.	629	62	54	103	Aug. 2, 1877	
Sandy Hook, P T W R S	40	28	74	01		04 F.	22	10	3	55	Nov. 1, 1914	
San Francisco, P T W R S	37	48	122	26	3	10 S.	155	208	202	243	Feb. 2, 1871	
San Jose, P T W R S	37	20	121	54	3	08 S.	141	12	3	110	Sept. 28, 1905	
San Juan, P T W R S	18	29	66	07		36 F.	82	9	4	54	Nov. 1, 1898	
San Luis Obispo, P T W R S	35	18	120	39	3	03 S.	201	32	23	40	June 1, 1885	
Sante Fe, P T W R S	35	41	105	57	2	04 S.	7,013	57 38	49 31	66 53	Nov. 20, 1871	Mar. 29, 1922
Sault Ste. Marie, P T W R S	46	30	84	21		37 S.	614	11	3	52	Aug. 5, 1877	
Savannah, P T W R S	32	05	81	05		24 S.	65	150	143	194	Jan. 1, 1871	
Scranton, P T W R S	41	24	75	42		03 S.	805	111	102	119	Aug. 17, 1900	
Seattle, P T W R S	47	38	122	20	3	09 S.	125	215	209	250	May 1, 1893	
Sheridan, P T W R S	44	48	106	57	2	08 S.	3,790	10	3	47	Apr. 29, 1907	
Shreveport, P T W R S	32	30	93	40	1	15 S.	249	77	70	93	Sept. 3, 1871	
Sioux City, P T W R S	42	29	96	24	1	26 S.	1,135	94	86	164	Dec. 1, 1887	
Spokane, P T W R S	47	40	117	25	2	50 S.	1,929	101	94	110	Feb. 1, 1881	
Springfield, Ill., P T W R S	39	48	89	39		59 S.	636	10	4	91	July 1, 1879	
Springfield, Mo., P T W R S	37	12	93	18	1	13 S.	1,324	98	66	104	June 3, 1882	
Syracuse, P T W R S	43	02	76	10		05 S.	597	97	65	113	Aug. 22, 1902	
Tacoma, P T W R S	47	16	122	23	3	10 S.	213	113	104	120	May 1, 1897	
Tampa, P T W R S	27	57	82	27		30 S.	35	79	71	92 87	Mar. 13, 1890	Dec. 11, 1922
Tatoosh Island, P T W R S	48	23	124	44	3	19 S.	86	9	4	57	Nov. 22, 1902	
Taylor, P T W R S	30	35	97	20	1	29 S.	583	55	48	63	Nov. 13, 1901	
Terre Haute, P T W R S	39	29	87	24		50 S.	575	96	84	129	July 29, 1912	
Thomasville, P T W R S	30	48	83	58		36 S.	273	49	41	58	Aug. 20, 1905	
Toledo, P T W R S	41	40	83	34		34 S.	628	208	201	243	Nov. 1, 1870	

TABLE I.—*Latitude, longitude, elevation, etc., of Weather Bureau stations*—Continued.

Stations.	Latitude.		Longitude.		Local meridian time faster or slower than 75th meridian.		Elevation Dec. 31, 1922. Barometer above sea.	Thermometer above ground.	Rain gage above ground.	Anemometer above ground.	Observations began.		Dates of changes in elevation during 1922.
	°	′	°	′	h.	m.	Feet.	Feet.	Feet.	Feet.			
Tonopah, **P T W R S**	38	04	117	14	2	49 S.	6,090	12	9	20	July	9, 1906	
Topeka, **P T W R S**	39	03	95	41	1	23 S.	987	92	83	107	June	1, 1887	
Trenton, **P T W R S**	40	14	74	45		01 F.	190	159	152	183	Apr.	1, 1913	
Valentine, **P T W R S**	42	50	100	32	1	42 S.	2,598	47	36	54	Sept.	1, 1885	
Vicksburg, **P T W R S**	32	22	90	53	1	04 S.	247	65	58	73	Sept.	10, 1871	
Walla Walla, **P T W R S**	46	02	118	20	2	53 S.	991	57	50	65	Dec.	1, 1885	
Washington, **P T W R S**	38	54	77	03		08 S.	112	62	42	85	Nov.	1, 1870	
Wausau, **T R**	44	57	89	35		58 S.	1,247	4	3	.....	June	18, 1915	
Wichita, **P T W R S**	37	41	97	20	1	29 S.	1,358	139	132	158	July	1, 1888	
Williston, **P T W R S**	48	09	103	35	1	54 S.	1,878	41	33	48	Nov.	24, 1893	
Wilmington, **P T W R S**	34	14	77	57		12 S.	78	81	76	91	Jan.	1, 1871	
Winnemucca, **P T W R S**	40	58	117	43	2	51 S.	4,344	18	6	56	July	1, 1877	
Wytheville, **P T W R S**	36	56	81	05		24 S.	2,304	49	40	55	Nov.	10, 1902	
Yankton, **P T W R S**	42	54	97	28	1	30 S.	1,233	49	42	57	Apr.	1, 1873	
Yellowstone Park, **PTWRS**	44	58	110	42	2	23 S.	6,200	11	4	48	Dec.	2, 1903	
Yuma, **P T W S**	32	45	114	36	2	38 S.	141	9	2	54	Oct.	4, 1875	
WEST INDIAN STATIONS.													
Barbados.[1]													
Bridgetown	13	04	59	37	1	02 F.	30	6	3	30	Aug.	15, 1898	
British Honduras.													
Belize	17	30	88	12		53 S.	17	5	3	46	Dec.	1, 1916	
Caribbean Sea.[1]													
Swan Islands	17	24	83	17		33 S.	35	5	4	58	June	1, 1914	
Cuba.													
Guane	.....		.....		.....		.....	.....	.....	.....	June	15, 1918	
Santa Cruz del Sur	20	48	78	27		14 S.	.....	.....	.....	.....	July	3, 1918	
Dominica.[1]													
Roseau	15	17	61	23		54 F.	25	.....	.....	.....	Oct.	20, 1898	
Isle of Pines.													
Nueva Gerona	21	54	82	36		30 S.	.....	.....	.....	.....	Sept.	27, 1918	
Jamaica.[1]													
Kingston	17	58	76	48		07 S.	24	48	51	63	Aug.	16, 1898	
Nicaragua.[1]													
Bluefields, **V**	12	00	83	45		35 S.	28	4	3	26	Jan.	1, 1917	
Porto Rico.													
San Juan, **P T W R S**	18	29	66	07		36 F.	82	9	4	54	Nov.	1, 1898	
St. Lucia.[1]													
Castries, **V**	13	50	60	55		56 F.	319	6	3	28	Aug.	16, 1917	
Santo Domingo.[1]													
Puerto Plata, **V**	19	49	70	43		17 F.	27	6	3	30	Sept.	16, 1917	
Santo Domingo	18	28	69	53		20 F.	57	6	3	60	Nov.	1, 1898	
Trinidad.[1]													
Port of Spain	10	35	61	30		54 F.	40	.....	.....	.....	Aug.	7, 1898	

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

TABLE I.—*Latitude, longitude, elevation, etc., of Weather Bureau stations*—Continued.

WEST INDIAN STATIONS—continued.

Stations.	Latitude.	Longitude.	Local meridian time faster or slower than 75th meridian.	Elevation Dec. 31, 1922.				Observations began.	Dates of changes in elevation during 1922.
				Barometer above sea.	Thermometer above ground.	Rain gage above ground.	Anemometer above ground.		
Turks Island.[1]	° ′	° ′	h. m.	Feet.	Feet.	Feet.	Feet.		
Grand Turk, P V	21 21	71 07	16 F.	11	6	2	20	July 1, 1900	
Virgin Islands.									
St. Thomas, V	18 13	64 29	42 F.	27	17	18	21	July 1, 1917	

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

TABLE II.—*Changes in Weather Bureau stations during 1922.*

ESTABLISHED.

Stations.	Date established.
CATTLE AND SNOWFALL.	
Gibson, N. Mex	Aug. 1
CORN AND WHEAT.	
Pipestone, Minn	Apr. 1
Poplar Bluff, Mo	Aug. 1
CORN AND WHEAT AND RAINFALL.	
Newkirk, Okla	Sept. 1
Stillwater, Okla	...do....
Vinita, Okla	...do....
CORN AND WHEAT AND RIVER.	
Poplar Bluff, Mo	Apr. 1
COTTON.	
Altus, Okla	Sept. 23
Lawton, Okla	Apr. 1
FRUIT.	
Reedley, Calif	Nov. 1
RAINFALL.	
Carbondale, Kans	Apr. 1
Claremore, Okla	Mar. 16
Fredericktown, Mo	Apr. 1
Greenville, Mo	...do....
Jourdanton, Tex	June 1
Overbrook, Kans	Mar. 16
Pomona, Kans	Feb. 1
Sabinal, Tex	June 1
REGULAR.	
Apalachicola, Fla	June 30
Brownsville, Tex	Sept. 19
Miles City, Mont	Aug. 1
RIVER.	
Arlberg, Ark	Aug. 11
Billings, Okla	Sept. 1
Central City, Nebr	Mar. 1
Cleveland, Okla	Sept. 1
Cotulla, Tex	Apr. 16
Davis, W. Va	Dec. 8
Del Rio, Tex	Nov. 16
Fort Morgan, Colo	Mar. 1
Franklinton, La	Feb. 15
Fremont, Nebr	Mar. 1
Heber Springs, Ark	Aug. 1
RIVER—continued.	
Lexington, Nebr	Mar. 1
Logan, Ohio	Oct. 16
Logansport, Ind	Sept. 16
Martinsville, Ind	Dec. 20
Mauzy, Ind	...do....
Monticello, Ind	Sept. 16
New Braunfels, Tex	July 16
Okmulgee, Okla	Sept. 1
Pleasant Hill, Ohio	Mar. 1
Poplar Bluff, Mo	Aug. 1
Quenemo, Kans	Sept. 1
Ralston, Okla	June 14
Romney, W. Va	Dec. 8
Rushville, Ind	Dec. 10
Scottsburg, Ind	Dec. 20
Solomon, Kans	Sept. 1
Sullivan, Mo	Mar. 1
Three Rivers, Tex	May 1
Torrington, Wyo	Mar. 1
Wabash, Ind	Sept. 16
Wahpeton, N. Dak	May 1
Whalen, Wyo	July 1
Yonkers, Okla	...do....
SNOWFALL.	
Crandall Creek, Wyo	Dec. 1
Hardy Ranger Station, S. Dak	Jan. 16
Quaking Aspen Creek, Wyo	Mar. 30
SPECIAL.	
Mount Hamilton, Calif	Sept. 1
VESSEL.	
Comanche (American)	Sept. 18
Ellis (Honduran)	June 10
Empress of Australia (British)	June 1
Empress of Canada (British)	...do....
Ixion (British)	Apr. 25
Mahukona (American)	Dec. 1
Morazan (Honduran)	June 1
Nile (British)	Aug. 15
Olancho (Honduran)	July 15
San Benito (British)	July 10
San Blas (British)	June 25
Talthybius (British)	Jan. 27
Tyndareus (British)	May 25
Victoria (American)	June 10
Wairuna (British)	Dec. 1

TABLE II.—*Changes in Weather Bureau Stations during 1922*—Continued.

DISCONTINUED.

Stations.	Date discontinued.
CATTLE AND SNOWFALL.	
Williams, Ariz	July 31
CORN AND WHEAT.	
Hutchinson, Minn	June 30
Newkirk, Okla	Aug. 31
Stillwater, Okla	Do.
Tyler, Minn	Mar. 31
Vinita, Okla	Aug. 31
CORN AND WHEAT AND RAINFALL.	
Poplar Bluff, Mo	Mar. 31
CORN AND WHEAT AND RIVER.	
Poplar Bluff, Mo	July 31
FRUIT.	
Staunton, Va	June 30
RAINFALL.	
Franklinton, La	Feb. 14
RIVER.	
Abilene, Kans	Sept. 30
Arlington, Ariz	Sept. 20
Banners Elk, N. C	Dec. 31
Colfax, Calif	Do.
Dos Rios, Calif	May 31
Elba, Ark	Aug. 10
Fernbridge, Calif	May 31
Garberville, Calif	Do.
Haydensville, Ohio	Oct. 15
Lenoir, N. C	Dec. 31
Marion, N. C	Do.
Morganton, N. C	Do.
New Baltimore, Ohio	Nov. 30
Pangburn, Ark	July 31
Quenemo, Kans	Aug. 31
Rushville, Ind	Dec. 31
RIVER—continued.	
Selinsgrove, Pa	Dec. 31
South Fork, Calif	May 31
Sullivan, Mo	Aug. 12
Torrington, Wyo	June 20
Waterford, Calif	Dec. 31
West Milton, Ohio	Feb. 28
SNOWFALL.	
Bedal, Wash	Jan. 31
Gold Creek, Wash	July 10
Gold Hill, Wash	Jan. 31
Grand Lake, Colo	Apr. 30
McCumber's Ranch, Wash	Aug. 24
Painter, Wyo	Nov. 30
Platoro, Colo	Dec. 31
St. Elmo, Colo	Do.
Timber Creek, Wyo	Mar. 29
SPECIAL.	
Altus, Okla	Sept. 22
Apalachicola, Fla	June 29
Brownsville, Tex	Sept. 18
Lawton, Okla	Mar. 31
Miles City, Mont	July 31
STORM WARNING.	
Sacketts Harbor, N. Y	Aug. 31
Sand Point Light, Mich	Oct. 23
Southeast Light, R. I	Feb. 28
VESSEL.	
Fushimi Maru (Japanese)	Mar. 17
Ixone (British)	Dec. 8
Kashima Maru (Japanese)	Feb. 28
Managua (Honduran)	May 31
Protesilaus (British)	Dec. 8
Santurce (American)	May 31
Talthybius (British)	Dec. 8
Texas (American)	May 31
Tyndareus (British)	Dec. 8

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SUNSHINE, 1922.

The following table gives for 165 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 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, 1922.

Stations.	January.		February.		March.		April.		May.		June.	
	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.
Albany, N. Y.	170	58	148	50	196	53	216	54	308	68	208	45
Alpena, Mich.	120	42	118	40	206	56	212	52	260	56	305	65
Amarillo, Tex.	203	65	205	67	272	73	254	65	358	82	370	85
Anniston, Ala.	119	38	111	36	190	51	242	62	213	49	279	65
Asheville, N. C.	104	33	128	42	170	46	240	61	220	50	270	62
Atlanta, Ga.	133	42	120	39	186	50	244	62	198	46	267	62
Atlantic City, N. J.	143	47	130	43	186	50	253	64	325	73	260	58
Augusta, Ga.	143	45	151	49	244	66	262	67	260	60	292	68
Baker, Oreg.	152	53	156	53	177	48	212	52	288	63	373	80
Baltimore, Md.	142	47	153	51	191	51	237	60	279	63	251	56
Binghamton, N. Y.	171	58	154	52	153	41	202	50	297	66	231	51
Birmingham, Ala.	93	29	97	32	191	51	254	65	240	56	274	64
Bismarck, N. Dak.	157	56	193	67	199	54	209	51	277	59	330	69
Block Island, R. I.	175	59	118	40	182	49	217	54	314	70	197	44
Boise, Idaho	111	38	121	41	186	50	254	63	342	75	397	86
Boston, Mass.	172	58	114	38	178	48	248	62	332	73	251	55
Broken Arrow, Okla.	107	34	173	57	199	53	171	44	220	50	284	65
Buffalo, N. Y.	95	33	93	31	162	44	215	58	283	62	229	50
Burlington, Vt.	153	53	135	46	192	52	196	48	303	66	195	42
Canton, N. Y.	158	55	118	40	211	57	205	51	320	69	226	48
Charles City, Iowa	126	43	136	46	170	46	194	48	256	56	340	74
Charleston, S. C.	163	51	167	54	280	75	319	82	316	74	331	77
Charlotte, N. C.	126	40	135	44	189	51	247	63	289	67	302	70
Chattanooga, Tenn.	82	26	103	34	140	38	191	49	194	45	252	58
Cheyenne, Wyo.	213	72	201	68	233	63	189	47	288	64	362	80
Chicago, Ill.	216	73	165	56	183	49	237	59	293	65	372	82
Chicago University, Ill.	210	71	160	54	174	47	227	56	302	67	376	83
Cincinnati, Ohio	165	54	124	41	135	36	250	63	269	60	278	62
Cleveland, Ohio	154	52	126	42	156	42	250	62	293	65	327	72
Columbia, Mo.	200	66	206	68	161	43	232	58	298	67	307	69
Columbus, Ohio	166	55	107	36	132	36	247	66	307	69	290	65
Concordia, Kans.	160	53	219	73	244	66	239	60	310	69	402	90
Dallas, Tex.	112	35	166	54	252	68	186	48	287	67	305	71
Dayton, Ohio	162	54	122	41	138	37	237	59	294	66	334	74
Del Rio, Tex.	88	27	133	42	224	60	167	43	219	52	233	56
Denver, Colo.	214	71	176	59	237	64	244	61	254	57	298	66
Des Moines, Iowa	190	64	216	73	170	46	207	52	255	56	333	73
Detroit, Mich.	179	61	109	37	187	50	245	61	302	67	333	73
Devils Lake, N. Dak.	136	49	146	51	173	47	224	54	253	54	300	63
Dodge City, Kans.	208	68	249	82	297	80	259	65	329	75	372	84
Drexel, Nebr.	164	55	165	55	170	46	196	49	245	54	343	76
Dubuque, Iowa	198	67	190	64	173	47	191	48	237	52	316	70
Due West, S. C.	101	32	113	37	187	50	216	55	202	47	313	73
Eastport, Me.	167	58	128	44	211	57	173	43	267	58	214	46
Elkins, W. Va.	128	42	128	43	146	39	191	48	248	56	203	46
Ellendale, N. Dak.	190	67	210	73	202	55	246	60	278	60	342	73
El Paso, Tex.	234	73	244	79	328	88	333	86	393	92	390	91
Erie, Pa.	150	51	170	57	219	59	262	65	350	78	308	68
Escanaba, Mich.	160	57	163	56	214	58	186	46	283	61	308	65
Eureka, Calif.	144	48	124	42	151	41	240	60	235	52	266	59
Evansville, Ind.	145	47	128	42	144	39	232	59	294	67	299	68
Fort Smith, Ark.	119	38	147	48	200	54	224	57	264	61	342	79
Fort Wayne, Ind.	164	55	145	49	135	36	245	61	343	76	348	77
Fort Worth, Tex.	141	44	159	52	242	65	189	48	302	70	337	79
Fresno, Calif.	172	56	166	55	275	74	358	91	400	91	406	92

Sunshine, 1922—Continued.

Stations.	July.		August.		September.		October.		November.		December.		Annual.	
	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.
Albany, N. Y.	310	67	209	48	213	57	211	62	114	39	110	39	2,413	53
Alpena, Mich.	278	59	238	55	184	49	126	37	31	11	32	12	2,110	44
Amarillo, Tex.	387	88	360	87	289	78	299	85	241	78	231	76	3,469	77
Anniston, Ala.	296	67	249	60	288	78	215	61	198	63	96	31	2,495	55
Asheville, N. C.	238	54	228	55	259	70	224	64	215	70	98	32	2,393	53
Atlanta, Ga.	247	56	206	50	271	73	227	65	207	66	86	28	2,392	53
Atlantic City, N. J.	275	61	220	52	273	73	232	67	178	59	84	29	2,558	56
Augusta, Ga.	264	60	243	59	313	84	248	70	229	73	107	34	2,756	61
Baker, Oreg.	375	79	316	72	309	82	190	56	142	49	47	17	2,737	59
Baltimore, Md.	245	54	264	62	263	71	258	75	186	62	120	41	2,590	58
Binghamton, N. Y.	279	60	194	45	207	55	150	44	57	19	98	35	2,193	48
Birmingham, Ala.	272	62	318	77	291	78	220	62	186	60	97	32	2,532	56
Bismarck, N. Dak.	359	75	374	85	279	74	219	65	85	30	148	56	2,828	62
Block Island, R. I.	234	51	195	46	240	64	176	51	137	46	94	33	2,280	51
Boise, Idaho.	418	89	348	80	337	90	241	71	152	52	31	11	2,935	62
Boston, Mass.	294	64	224	52	252	67	214	62	139	47	96	34	2,514	55
Broken Arrow, Okla.	273	61	278	66	322	87	260	74	202	66	156	52	2,645	59
Buffalo, N. Y.	269	58	242	56	209	56	155	45	54	19	59	21	2,064	44
Burlington, Vt.	294	63	208	48	224	60	113	33	40	14	66	24	2,117	46
Canton, N. Y.	310	66	256	59	239	64	124	36	52	18	79	29	2,297	49
Charles City, Iowa.	300	65	316	73	267	71	233	68	83	28	144	51	2,565	56
Charleston, S. C.	312	71	271	65	275	74	252	72	268	85	180	58	3,134	70
Charlotte, N. C.	253	57	241	58	277	75	255	73	252	81	109	36	2,675	60
Chattanooga, Tenn.	297	67	303	73	292	79	246	70	194	62	118	39	2,412	53
Cheyenne, Wyo.	335	73	312	73	280	75	242	70	197	66	166	58	3,018	67
Chicago, Ill.	345	75	324	75	262	70	244	71	87	30	126	44	2,854	62
Chicago University, Ill.	341	74	337	79	279	75	251	73	100	34	126	44	2,883	63
Cincinnati, Ohio.	334	74	282	67	317	85	235	68	166	55	115	39	2,670	59
Cleveland, Ohio.	350	76	317	74	283	76	218	63	101	34	103	36	2,680	58
Columbia, Mo.	293	65	278	66	278	74	245	71	187	62	178	61	2,862	64
Columbus, Ohio.	362	80	319	75	308	82	214	62	123	41	144	50	2,719	60
Concordia, Kans.	390	86	382	90	296	79	290	84	209	70	196	67	3,337	74
Dallas, Tex.	366	84	330	80	322	87	253	72	162	52	185	60	2,927	65
Dayton, Ohio.	367	81	342	80	327	87	234	68	164	55	118	41	2,837	62
Del Rio, Tex.	252	59	238	58	226	61	238	67	96	30	174	54	2,289	51
Denver, Colo.	284	62	287	68	261	70	243	70	154	51	181	62	2,832	63
Des Moines, Iowa.	261	57	286	67	259	69	247	72	157	53	168	59	2,750	62
Detroit, Mich.	322	70	302	71	261	70	206	60	86	29	103	36	2,635	57
Devils Lake, N. Dak.	334	69	312	71	231	61	194	58	80	29	98	38	2,481	54
Dodge City, Kans.	372	83	372	88	314	84	289	83	238	78	212	72	3,511	78
Drexel, Tex.	298	65	327	77	269	72	255	74	163	55	164	57	2,759	61
Dubuque, Iowa.	275	60	259	60	238	63	238	69	90	31	112	40	2,517	56
Due West, S. C.	264	60	194	47	252	68	242	69	212	68	91	30	2,386	53
Eastport, Me.	257	54	214	49	246	66	149	44	129	45	80	29	2,235	49
Elkins, W. Va.	251	55	211	50	258	69	202	58	126	42	138	47	2,230	50
Ellendale, N. Dak.	368	77	374	85	253	67	242	72	110	39	156	58	2,971	66
El Paso, Tex.	384	88	344	84	320	86	295	84	244	77	260	83	3,770	84
Erie, Pa.	334	68	322	75	266	71	187	55	56	19	29	10	2,634	56
Escanaba, Mich.	285	56	284	65	220	59	185	55	65	23	111	41	2,445	54
Eureka, Calif.	191	42	248	58	218	58	148	43	163	55	73	25	2,201	49
Evansville, Ind.	334	72	334	79	316	85	254	73	209	69	117	40	2,796	62
Fort Smith, Ark.	384	76	322	77	325	87	235	67	180	58	132	43	2,824	62
Fort Wayne, Ind.	291	64	290	68	290	78	204	59	85	29	91	32	2,632	57
Fort Worth, Tex.	397	91	356	82	344	93	272	77	208	66	200	64	3,148	69
Fresno, Calif.	433	97	407	97	369	99	307	88	186	61	61	20	3,539	77

Sunshine, 1922—Continued.

Stations.	January.		February.		March.		April.		May.		June.	
	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.
Galveston, Tex	97	30	164	52	235	63	256	66	330	78	322	77
Grand Haven, Mich	128	44	89	30	180	49	244	61	331	73	346	75
Grand Junction, Colo	244	80	148	49	241	65	266	67	354	80	372	83
Grand Rapids, Mich	97	33	79	27	162	44	215	53	295	65	324	70
Green Bay, Wis	148	52	167	57	196	53	186	46	296	64	275	59
Greenville, S. C	135	43	141	46	201	54	253	64	270	62	319	73
Groesbeck, Tex	82	26	131	42	220	59	193	50	284	66	310	73
Harrisburg, Pa	175	58	154	52	196	53	240	60	304	68	271	60
Hartford, Conn	158	53	96	32	141	38	213	53	287	64	173	38
Havre, Mont	114	42	168	59	202	55	152	37	226	48	341	71
Helena, Mont	101	36	116	40	160	43	177	43	244	52	332	70
Honolulu, Hawaii	149	44	149	46	235	63	237	63	236	58	191	48
Houston, Tex	89	27	144	46	184	50	182	47	291	69	270	64
Huron, S. Dak	171	59	220	75	201	54	233	58	279	61	336	73
Independence, Calif	256	83	194	64	321	86	348	88	396	90	392	89
Indianapolis, Ind	184	61	131	44	140	38	225	56	277	62	336	75
Jacksonville, Fla	162	50	173	56	279	75	304	79	271	64	280	66
Juneau, Alaska	40	18	142	54	224	61	155	36	267	51	168	31
Kalispell, Mont	108	39	154	54	220	60	217	53	328	70	404	84
Kansas City, Mo	185	61	218	72	207	56	260	65	321	72	399	89
Key West, Fla	234	70	253	80	319	86	329	86	262	63	315	77
Knoxville, Tenn	111	36	114	37	170	46	240	61	231	53	292	67
La Crosse, Wis	166	57	178	61	190	51	188	47	277	61	313	68
Lander, Wyo	241	82	230	78	317	86	230	57	282	62	392	85
Lansing, Mich	148	51	110	37	186	50	248	62	306	67	344	75
Lexington, Ky	138	45	103	34	137	37	245	62	285	65	283	64
Little Rock, Ark	99	31	119	39	174	47	249	63	290	67	334	77
Los Angeles, Calif	228	72	179	58	269	72	281	72	303	70	353	82
Louisville, Ky	154	50	148	49	160	43	268	68	300	68	269	61
Ludington, Mich	119	41	119	41	212	57	238	59	347	76	349	75
Lynchburg, Va	153	50	151	50	213	57	284	72	254	58	250	57
Macon, Ga	144	45	153	50	237	64	281	72	248	58	314	73
Madison, Wis	178	61	152	51	139	37	180	45	245	54	294	64
Marquette, Mich	122	44	135	47	201	54	162	40	238	51	279	59
Memphis, Tenn	112	36	130	43	202	54	234	60	275	63	308	71
Meridian, Miss	110	34	123	40	207	56	227	58	204	48	276	65
Miami, Fla	246	74	258	82	309	83	303	79	262	63	263	63
Milwaukee, Wis	239	82	189	64	198	54	221	55	315	69	361	78
Minneapolis, Minn	144	50	177	61	208	56	181	45	255	55	308	66
Mobile, Ala	123	38	154	50	249	67	284	73	260	61	284	67
Modena, Utah	240	79	178	59	257	69	234	59	372	84	368	83
New Haven, Conn	213	71	183	61	231	62	265	66	364	81	264	58
New Orleans, La	116	36	153	49	229	62	238	61	230	54	242	57
New York, N. Y	166	56	147	49	209	56	290	72	338	75	283	63
Norfolk, Va	112	36	125	41	202	54	248	63	305	69	271	62
Northfield, Vt	174	60	135	46	184	50	202	50	285	62	169	36
North Head, Wash	174	61	148	51	145	39	213	52	252	54	222	47
North Platte, Nebr	201	67	202	68	250	67	226	56	321	71	401	89
Oklahoma City, Okla	145	46	175	57	209	56	186	47	264	61	287	66
Omaha, Nebr	203	68	219	73	230	62	268	67	323	72	366	81
Parkersburg, W. Va	154	51	135	45	183	49	204	51	239	54	247	55
Pensacola, Fla	147	45	145	46	233	63	273	71	261	62	313	74
Peoria, Ill	172	58	190	64	151	41	230	57	281	63	377	83
Philadelphia, Pa	164	55	155	52	187	50	236	59	316	71	226	50
Phoenix, Ariz	230	73	228	74	288	78	343	88	396	92	393	92

Sunshine, 1922—Continued.

Stations.	July.		August.		September.		October.		November.		December.		Annual.	
	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.
Galveston, Tex	360	84	354	87	299	81	290	82	152	47	167	52	3,026	67
Grand Haven, Mich	313	67	310	72	250	67	202	59	48	16	50	18	2,490	53
Grand Junction, Colo	355	78	312	74	308	83	273	79	170	56	125	43	3,168	70
Grand Rapids, Mich	302	65	268	62	224	60	168	49	41	14	53	19	2,227	47
Green Bay, Wis	270	57	296	68	259	69	192	57	71	25	102	37	2,458	54
Greenville, S. C	294	67	247	59	283	76	238	68	236	76	104	34	2,721	60
Groesbeck, Tex	351	81	338	82	282	76	249	71	137	43	162	52	2,741	60
Harrisburg, Pa	274	60	255	60	246	66	246	71	164	55	131	45	2,657	59
Hartford, Conn	214	46	221	52	247	66	205	60	126	43	91	32	2,172	48
Havre, Mont	362	74	356	80	278	74	200	60	160	58	94	37	2,652	58
Helena, Mont	344	72	284	65	273	73	220	65	156	56	55	21	2,463	53
Honolulu, Hawaii	245	60	236	59	216	59	227	63	214	64	244	72	2,579	58
Houston, Tex	313	73	276	67	249	67	250	70	110	35	151	47	2,508	55
Huron, S. Dak	289	62	343	79	286	76	218	64	94	32	130	47	2,800	62
Independence, Calif	380	85	346	82	357	96	303	87	213	70	162	54	3,668	81
Indianapolis, Ind	362	80	356	84	330	88	254	74	154	52	127	44	2,876	63
Jacksonville, Fla	294	69	190	46	171	46	105	30	197	62	144	45	2,569	57
Juneau, Alaska	114	21	102	21	53	14	63	20	44	19	82	41	1,454	32
Kalispell, Mont	403	83	333	75	284	75	232	69	113	41	55	21	2,852	60
Kansas City, Mo	358	79	355	84	313	84	272	78	221	73	209	71	3,318	74
Key West, Fla	314	75	313	78	251	68	250	70	238	73	270	82	3,348	76
Knoxville, Tenn	291	65	272	65	290	78	250	72	218	71	126	42	2,605	58
La Crosse, Wis	333	50	302	70	370	72	209	61	59	21	138	50	2,523	56
Lander, Wyo	346	74	302	70	305	81	237	69	133	46	163	58	3,177	71
Lansing, Mich	331	71	302	70	250	67	190	55	79	27	92	33	2,586	55
Lexington, Ky	310	69	283	67	277	74	237	68	174	57	108	37	2,581	57
Little Rock, Ark	271	61	313	75	330	89	269	77	214	69	144	47	2,806	62
Los Angeles, Calif	347	79	359	86	330	89	286	81	265	85	165	54	3,365	75
Louisville, Ky	313	70	299	71	276	74	244	70	200	66	116	39	2,745	61
Ludington, Mich	329	70	350	81	259	69	215	63	50	17	73	26	2,661	56
Lynchburg, Va	240	54	214	51	222	60	216	62	160	52	71	29	2,429	54
Macon, Ga	317	72	315	76	333	90	247	70	242	77	139	45	2,970	66
Madison, Wis	262	56	263	61	259	69	232	68	76	26	106	38	2,384	52
Marquette, Mich	252	52	274	62	207	55	116	35	54	19	81	31	2,121	46
Memphis, Tenn	314	71	319	76	319	86	253	72	203	66	119	39	2,787	61
Meridian, Miss	298	69	339	82	311	84	248	70	208	66	138	44	2,687	60
Miami, Fla	277	66	278	69	236	64	209	58	217	66	247	76	3,105	70
Milwaukee, Wis	306	66	316	73	245	65	205	60	78	27	105	37	2,778	61
Minneapolis, Minn	293	62	297	68	248	66	206	61	55	19	121	44	2,494	54
Mobile, Ala	274	64	252	61	249	67	174	49	145	46	111	35	2,559	56
Modena, Utah	348	77	291	69	318	85	288	83	217	71	126	43	3,237	72
New Haven, Conn	295	64	273	64	284	76	242	70	175	59	121	42	2,912	64
New Orleans, La	269	63	287	70	259	70	245	69	194	61	174	55	2,636	59
New York, N. Y	272	59	216	51	245	66	276	80	145	49	107	37	2,695	59
Norfolk, Va	286	64	267	64	255	69	233	67	228	75	119	40	2,650	59
Northfield, Vt	252	54	209	48	196	52	97	29	79	27	74	26	2,055	45
North Head, Wash	202	42	128	29	134	36	158	47	180	63	69	26	2,024	46
North Platte, Nebr	361	79	375	88	304	81	255	74	171	57	177	62	3,244	72
Oklahoma City, Okla	335	76	324	78	332	89	278	79	311	68	186	61	2,933	65
Omaha, Nebr	340	74	344	80	287	77	259	75	170	57	167	58	3,177	70
Parkersburg, W. Va	269	59	288	68	288	77	238	69	136	45	110	37	2,490	55
Pensacola, Fla	301	70	286	70	287	78	225	63	210	66	156	49	2,836	63
Peoria, Ill	360	78	336	79	296	79	240	70	119	40	138	48	2,888	63
Philadelphia, Pa	262	58	235	55	236	63	265	77	154	51	107	37	2,543	56
Phoenix, Ariz	362	83	340	82	342	92	322	92	264	84	203	65	3,713	83

Sunshine, 1922—Continued.

Stations.	January.		February.		March.		April.		May.		June.	
	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.
Pittsburgh, Pa	184	62	124	42	169	46	227	57	265	59	313	69
Pocatello, Idaho	131	45	113	39	180	49	186	46	319	70	367	80
Port Angeles, Wash	112	41	113	39	154	42	210	51	251	53	337	70
Port Arthur, Tex	90	28	143	46	226	61	204	53	279	66	288	68
Port Huron, Mich	164	56	97	33	192	52	237	59	288	63	318	69
Portland, Me	197	68	142	49	211	57	240	59	304	66	199	43
Portland, Oreg	86	30	136	47	166	45	216	53	296	64	358	76
Providence, R. I	199	67	147	49	211	57	252	63	340	75	234	52
Pueblo, Colo	264	86	241	80	265	71	244	62	314	71	356	80
Raleigh, N. C	90	29	123	40	201	54	238	61	278	64	283	65
Rapid City, S. Dak	173	60	171	58	265	72	196	48	300	66	362	78
Reading, Pa	138	46	140	47	175	47	229	57	241	54	227	51
Richmond, Va	109	36	120	40	204	55	278	70	335	76	273	62
Rochester, N. Y	129	44	109	37	175	47	232	58	324	71	284	62
Roswell, N. Mex	213	67	223	72	265	71	229	59	320	74	297	69
Royal Center, Ind	192	64	118	40	148	40	238	60	311	69	360	80
Sacramento, Calif	177	58	134	45	241	65	345	87	387	87	409	92
Saginaw, Mich	146	50	113	38	199	54	251	62	343	76	361	79
St. Joseph, Mo	174	58	217	72	198	53	251	63	282	63	378	84
St. Louis, Mo	141	47	150	50	155	42	254	64	322	73	310	70
St. Paul, Minn	163	57	194	67	231	62	192	47	228	49	314	67
Salt Lake City, Utah	184	62	152	51	218	59	266	66	360	80	384	85
San Antonio, Tex	102	31	146	47	282	76	225	58	289	68	302	72
San Diego, Calif	224	70	218	71	278	75	271	69	289	67	294	69
Sandy Hook, N. J	181	60	157	52	208	56	264	66	355	80	282	63
San Francisco, Calif	219	72	158	52	243	65	339	86	360	82	343	77
San Jose, Calif	235	76	167	55	264	71	333	84	351	80	356	81
San Juan, P. R	228	66	209	64	255	68	270	72	239	60	256	65
San Luis Obispo, Calif	223	71	167	54	248	67	289	74	323	74	349	80
Santa Fe, N. Mex	203	65	178	58	232	63	243	62	320	73	329	75
Sault Ste. Marie, Mich	83	29	120	41	208	56	180	44	266	57	289	61
Savannah, Ga	138	43	131	42	261	70	304	78	248	58	306	72
Seattle, Wash	113	41	131	46	131	36	187	46	276	59	298	62
Sheridan, Wyo	185	65	182	62	282	76	209	52	243	53	377	81
Sioux City, Iowa	161	55	200	67	205	55	214	53	245	54	278	61
Spokane, Wash	76	27	167	58	213	58	250	61	364	77	392	82
Springfield, Ill	228	76	212	71	170	46	236	59	300	67	381	85
Springfield, Mo	126	41	148	49	160	43	203	51	264	60	307	70
Tacoma, Wash	68	24	86	30	68	18	127	31	219	47	230	48
Tampa, Fla	182	55	218	69	276	74	300	78	273	65	286	69
Terre Haute, Ind	169	56	137	46	153	41	225	57	238	54	332	75
Toledo, Ohio	181	61	98	33	136	37	206	51	253	56	282	62
Tonopah, Nev	242	79	202	67	258	69	289	73	355	80	375	85
Trenton, N. J	167	56	161	54	209	56	271	68	313	70	257	57
Vicksburg, Miss	84	27	123	40	215	58	263	67	293	68	307	72
Walla Walla, Wash	53	19	82	28	158	43	251	62	326	70	409	87
Washington, D. C	123	40	118	39	167	45	237	60	287	65	253	57
Wichita, Kans	126	41	158	52	174	47	174	44	244	55	309	70
Williston, N. Dak	138	50	185	64	231	63	239	58	270	57	333	70
Wilmington, N. C	127	40	145	47	248	67	265	68	294	68	285	66
Winnemucca, Nev	210	70	155	52	226	60	283	71	284	86	402	89
Wytheville, Va	89	29	76	25	138	37	207	52	249	57	223	51
Yankton, S. Dak	164	56	192	65	197	53	225	56	236	52	300	65
Yellowstone Park, Wyo	148	52	143	49	221	60	234	58	283	61	374	80
Yuma, Ariz	263	83	265	86	328	88	377	97	406	94	400	93

Sunshine, 1922—Continued.

Stations.	July.		August.		September.		October.		November.		December.		Annual.	
	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.	Hours.	Percentage of possible.
Pittsburgh, Pa	336	73	324	76	321	86	234	68	110	37	134	47	2,742	60
Pocatello, Idaho	344	74	316	73	339	90	252	74	141	48	76	27	2,766	60
Port Angeles, Wash	316	65	214	49	175	47	110	33	66	24	46	18	2,108	44
Port Arthur, Tex	273	64	259	63	220	59	260	73	130	41	160	50	2,532	56
Port Huron, Mich	313	67	320	74	255	68	174	51	77	26	104	37	2,538	55
Portland, Me	272	58	242	56	214	57	172	51	123	42	89	32	2,406	53
Portland, Oreg	385	81	326	74	242	64	115	34	118	42	46	17	2,490	52
Providence, R. I	286	62	223	52	255	68	222	65	154	52	121	43	2,644	59
Pueblo, Colo	337	75	327	78	317	85	314	91	184	61	236	80	3,400	77
Raleigh, N. C	282	64	266	64	255	69	234	67	220	71	98	32	2,569	57
Rapid City, S. Dak	342	73	357	82	309	82	259	76	145	50	161	58	3,041	67
Reading, Pa	220	48	191	43	185	50	229	66	144	48	92	31	2,221	50
Richmond, Va	250	56	282	67	259	69	231	67	189	62	71	24	2,601	57
Rochester, N. Y	350	75	304	71	284	76	199	58	83	28	71	25	2,545	54
Roswell, N. Mex	348	80	354	86	301	81	283	80	216	69	227	73	3,275	73
Royal Center, Ind	328	72	326	76	308	82	246	72	93	31	120	42	2,788	61
Sacramento, Calif	431	95	395	93	368	98	254	73	198	66	82	28	3,420	74
Saginaw, Mich	365	78	327	76	258	69	176	52	48	16	57	20	2,644	56
St. Joseph, Mo	352	77	342	80	276	74	262	76	190	64	185	64	3,110	69
St. Louis, Mo	294	65	292	69	304	82	223	65	178	59	169	57	2,792	62
St. Paul, Minn	294	62	305	70	253	67	204	60	47	16	125	45	2,548	56
Salt Lake City, Utah	383	84	319	75	337	90	246	71	149	50	84	29	3,082	67
San Antonio, Tex	348	81	337	83	232	63	238	67	113	35	197	61	2,811	62
San Diego, Calif	313	72	316	76	305	82	291	83	274	87	204	66	3,276	74
Sandy Hook, N. J	285	63	246	58	274	73	251	73	160	53	115	40	2,778	61
San Francisco, Calif	349	78	342	81	322	86	195	56	219	72	125	42	3,213	71
San Jose, Calif	386	86	369	88	330	89	237	68	222	73	129	43	3,380	74
San Juan, P. R	285	70	290	74	225	61	259	71	252	74	230	67	2,999	68
San Luis Obispo, Calif	330	75	349	84	327	88	262	75	226	73	162	53	3,255	72
Santa Fe, N. Mex	302	68	293	70	276	74	298	85	185	60	189	62	3,048	68
Sault Ste. Marie, Mich	260	55	296	68	228	61	136	40	53	19	51	19	2,170	46
Savannah, Ga	310	71	240	58	226	61	166	47	209	66	123	39	2,662	59
Seattle, Wash	338	70	236	53	199	53	96	29	102	37	56	21	2,163	46
Sheridan, Wyo	332	70	340	78	308	82	238	70	159	55	126	46	2,978	66
Sioux City, Iowa	244	53	310	72	272	73	264	77	138	47	149	52	2,683	60
Spokane, Wash	439	91	342	77	281	74	198	59	66	24	62	24	2,849	59
Springfield, Ill	337	74	314	74	288	77	228	66	155	52	138	47	2,986	66
Springfield, Mo	303	68	302	72	286	77	246	71	181	59	143	48	2,667	59
Tacoma, Wash	154	32	163	37	199	53	101	30	74	26	48	18	1,536	33
Tampa, Fla	287	67	236	58	192	52	188	53	205	64	197	61	2,840	64
Terre Haute, Ind	301	67	298	70	312	84	235	68	168	56	120	41	2,690	60
Toledo, Ohio	303	66	302	70	263	70	205	60	100	34	106	37	2,433	53
Tonopah, Nev	370	82	279	79	360	96	310	89	207	68	130	44	3,377	76
Trenton, N. J	270	59	251	59	259	69	248	72	147	49	128	44	2,681	59
Vicksburg, Miss	301	69	296	72	299	81	248	70	174	55	118	38	2,721	60
Walla Walla, Wash	411	86	309	71	306	81	211	62	42	15	45	17	2,604	53
Washington, D. C	262	58	258	61	251	67	237	68	174	58	112	38	2,477	55
Wichita, Kans	281	62	322	76	283	76	271	78	212	70	193	65	2,747	61
Williston, N. Dak	351	73	344	78	288	76	216	64	112	40	157	60	2,865	63
Wilmington, N. C	293	67	273	66	260	70	246	70	254	82	154	50	2,845	63
Winnemucca, Nev	412	90	373	87	364	97	271	79	191	64	94	33	3,361	73
Wytheville, Va	221	49	207	49	246	66	237	68	170	56	101	34	2,163	48
Yankton, S. Dak	295	63	333	77	272	73	241	70	124	43	148	53	2,728	60
Yellowstone Park, Wyo	357	76	315	72	321	85	244	72	167	58	72	26	2,880	62
Yuma, Ariz	391	89	322	78	345	93	342	97	301	96	267	86	4,006	90

EXCESSIVE RAINFALL, 1922.

The following table contains statistics of excessive rainfall during the calendar year 1922. Similar data for the years 1896 to 1921, inclusive, have been presented in the appropriate annual reports of the Chief of the Weather Bureau. The published data prior to 1896 consist of a record of maximum amounts of rainfall in 5 and 10-minute periods, 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.

The following table shows, for most stations of the Weather Bureau furnished with self-registering gauges, the accumulated amounts of precipitation for each 5 minutes during all storms of 1922 in which the rate of fall equaled or exceeded 0.25 inch in any 5-minute period, or 0.30 inch in any 10-minute period, or 0.35 inch in any 15-minute period, etc. If the period be 1 hour, the minimum fall would need to be 0.80 inch; if 2 hours, 1.40 inches. In the comparatively few cases when the excessive rate of fall continued for more than 2 hours, the record has been spread over three or more lines, as necessary, each line showing amounts through 50 minutes; the four left-hand columns have each but a single entry for the storm, while the amounts shown in the column headed "5 min." are, in reality, the 55-minute amount on the second line, the 105-minute amount on the third line, etc.

The excepted stations, for which the statistics only of the more intense storms appear here, are those in the South Atlantic and the Gulf States, including Arkansas, but not including the western portion of Texas. In these States very heavy falls are so frequent that much space would be needed to print detailed statistics of each rainfall that attained to one of the limits mentioned above, so only the more intense rainfalls are shown. At most stations the only falls included are those in which 1 inch or more fell within an hour, as footnote 4 indicates; but a few stations within these States had no such fall during 1922; so for such stations those falls in which 0.50 inch or more fell within 30 minutes have been presented (footnote 5).

Normal standard time at the place of occurrence is employed in this table.

Accumulated amounts of precipitation for each 5 minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes or 0.80 in 1 hour during 1922 at all stations furnished with self-registering gauges.

Station and date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.													
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
NEW ENGLAND STATES.																				
Eastport, Me.:																				
Aug. 26	D. N. a. m.	2:05 p. m.	1.85	12:22 p. m.	1:36 p. m.	0.54	0.11	0.21	0.31	0.36	0.43	0.52	0.55	0.60	0.66	0.76	0.94	1.28		
Do	2:50 p. m.	5:35 p. m.	1.49	3:34 p. m.	4:59 p. m.	.12	.12	.23	.27	.28	.32	.41	.52	.65	.73	.76	.92	1.17	1.36	
Portland, Me.:																				
July 18	3:17 p. m.	6:50 p. m.	.79	3:39 p. m.	4:08 p. m.	.07	.11	.19	.28	.38	.50	.56								
Concord, N. H.:																				
June 10 [1]	8:45 a. m.	11:30 a. m.	.54	10:04 a. m.	10:16 a. m.	.18	.06	.30	.35											
July 18 [1]	2:00 p. m.	3:55 p. m.	.55	2:50 p. m.	3:14 p. m.	.07	.19	.30	.36	.42	.48									
Sept. 12	10:45 a. m.	3:25 p. m.	.75	11:32 a. m.	12:00 m.	.02	.19	.27	.32	.43	.53	.57								
Burlington, Vt.:																				
June 6	2:08 p. m.	4:05 p. m.	1.21	2:13 p. m.	2:30 p. m.	.01	.19	.33	.61	.70										
Do	2:08 p. m.	4:05 p. m.	1.21	3:03 p. m.	3:14 p. m.	.84	.14	.32	.35											
June 29	7:25 p. m.	9:00 p. m.	.79	7:56 p. m.	8:17 p. m.	.01	.22	.57	.66	.70	.76									
Aug. 7	3:07 p. m.	10:10 p. m.	.72	3:10 p. m.	3:21 p. m.	.01	.25	.38	.42											
Aug. 16	1:03 p. m.	1:25 p. m.	.67	1:06 p. m.	1:19 p. m.	.01	.28	.53	.65											
Aug. 25	9:07 p. m.	D. N. p. m.	1.11	10:11 p. m.	10:25 p. m.	.08	.28	.75	.99											
Sept. 12	D. N. a. m.	10:10 a. m.	1.30	6:29 a. m.	7:14 a. m.	.05	.05	.17	.25	.41	.53	.59	.66	.72	.78					
Northfield, Vt.:																				
June 6	5:10 p. m.	7:20 p. m.	.81	5:15 p. m.	5:29 p. m.	.02	.25	.38	.43											
Aug. 7	4:28 p. m.	6:20 p. m.	.95	4:39 p. m.	5:08 p. m.	.03	.33	.45	.49	.54	.65	.71								
Aug. 18	10:12 p. m.	D. N. p. m.	.44	10:15 p. m.	10:26 p. m.	.01	.35	.41	.43											
Boston, Mass.:																				
June 11	2:45 p. m.	5:30 p. m.	1.33	3:15 p. m.	4:21 p. m.	T.	.15	.50	.55	.55	.55	.80	.87	.89	.91	.94	1.07	1.20		
Aug. 26	12:00 noon	3:10 p. m.	.71	2:05 p. m.	2:17 p. m.	.07	.23	.55	.60											
Sept. 12	1:05 p. m.	5:20 p. m.	1.22	1:17 p. m.	2:02 p. m.	T.	.05	.15	.22	.32	.44	.49	.61	.76	.92					
Oct. 23	4:30 p. m.	[2] D. N. a. m.	.99	10:18 p. m.	10:23 p. m.	.45	.27													

[1] Defective record.

[2] On following date.

Accumulated amounts of precipitation for each 5 minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes or 0.80 in 1 hour during 1922 at all stations furnished with self-registering gauges—Continued.

Station and date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.													
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
NEW ENGLAND STATES—continued.																				
Nantucket, Mass.:																				
June 4	1:20 a. m.	4:15 a. m.	0.72	3:24 a. m.	3:35 a. m.	0.36	0.29	0.30	0.36											
July 24	[3] 11:45 p. m.	1:50 a. m.	.59	12:27 a. m.	12:40 a. m.	.06	.20	.34	.38											
Aug. 2	1:46 p. m.	8:15 p. m.	1.85	6:36 p. m.	7:56 p. m.	.34	.08	.18	.27	0.36	0.48	0.56	0.71	0.96	1.13	1.29	1.49			
Aug. 9	4:15 a. m.	6:25 a. m.	.55	4:22 a. m.	4:35 a. m.	.01	.18	.30	.37											
Aug. 27	[3] 10:45 p. m.	6:30 p. m.	3.49	4:44 a. m.	5:59 a. m.	.73	.07	.18	.31	.43	.48	.57	.64	.72	.77	.86	.96			
Do	[3] 10:45 p. m.	6:30 p. m.	3.49	12:30 p. m.	1:16 p. m.	2.04	.21	.35	.39	.53	.61	.69	.80	.89	.97	.99				
Aug. 28	2:40 p. m.	[2] 1:15 a. m.	1.17	5:08 p. m.	5:36 p. m.	.36	.08	.23	.30	.37	.44	.52								
Sept. 12	5:50 p. m.	7:15 p. m.	.48	6:05 p. m.	6:15 p. m.	.01	.24	.38												
Oct. 8	[3] 8:20 p. m.	12:15 p. m.	3.48	8:40 a. m.	9:53 a. m.	1.14	.09	.23	.34	.50	.63	.72	.78	.88	.97	1.05	1.24	1.73		
Block Island, R. I.:																				
Aug. 19	2:15 p. m.	7:40 p. m.	1.84	4:18 p. m.	4:52 p. m.	.37	.09	.21	.38	.57	.81	.91	.97							
Aug. 26	12:30 p. m.	2:55 p. m.	1.66	12:50 p. m.	2:05 p. m.	.06	.13	.16	.30	.46	.54	.61	.73	.81	.88	.95	1.16	1.38		
Aug. 27	12:05 p. m.	10:10 p. m.	2.09	7:55 p. m.	8:35 p. m.	.90	.07	.12	.19	.23	.28	.36	.42	.46	.52	.62	.83			
Oct. 8	12:15 a. m.	7:40 a. m.	1.22	1:26 a. m.	1:41 a. m.	.15	.06	.39	.10											
Oct. 10	4:25 p. m.	5:00 p. m.	.43	4:33 p. m.	4:49 p. m.	.01	.18	.36	.41	.42										
Providence, R. I.:																				
June 18	9:50 p. m.	[2] 8:58 a. m.	2.15	10:07 p. m.	10:23 p. m.	.05	.09	.21	.39	.13										
June 19	[3] 9:50 p. m.	8:58 a. m.	2.15	1:44 a. m.	2:14 a. m.	1.05	.06	.20	.35	.40	.43	.50								
July 23	5:45 p. m.	[2] D. N. a. m.	3.83	8:54 p. m.	10:45 p. m.	.12	.05	.17	.34	.51	.72	1.11	1.35	1.46	1.53	1.60	1.88	2.36	3.02	3.33
Aug. 2	10:39 a. m.	4:52 p. m.	1.10	2:19 p. m.	2:32 p. m.	.42	.21	.45	.57											
Aug. 26	9:34 a. m.	[2] D. N. a. m.	2.13	6:13 p. m.	6:28 p. m.	1.55	.14	.31	.39											
Sept. 4	12:05 a. m.	9:42 a. m.	2.35	6:02 a. m.	6:35 a. m.	1.50	.08	.18	.29	.39	.45	.55	.62							
Sept. 12	1:11 p. m.	5:15 p. m.	.62	1:45 p. m.	2:00 p. m.	.03	.15	.29	.37											
Hartford, Conn.:																				
July 3	6:00 p. m.	D. N. p. m.	1.80	6:08 p. m.	6:53 p. m.	.02	.30	.67	.85	.87	.89	.91	.95	1.05	1.15					
July 13	1:25 p. m.	2:35 p. m.	.41	1:30 p. m.	1:40 p. m.	.01	.26	.32												
Aug. 17	1:29 p. m.	2:17 p. m.	1.00	1:48 p. m.	2:08 p. m.	.02	.22	.43	.72	.97										
Aug. 19	[3] 10:30 p. m.	7:00 a. m.	1.44	2:38 a. m.	2:57 a. m.	.16	.13	.35	.55	.76										
Aug. 26	5:20 a. m.	8:35 a. m.	.90	6:31 a. m.	6:44 a. m.	.01	.11	.38	.55											
Do	12:25 p. m.	2:30 p. m.	.60	12:43 p. m.	1:12 p. m.	.01	.09	.25	.35	.42	.51	.57								
Sept. 12	9:07 a. m.	2:26 p. m.	1.12	9:43 a. m.	10:09 a. m.	.05	.19	.32	.66	.81	.92	.94								
New Haven, Conn.:																				
June 11	4:46 p. m.	5:29 p. m.	.32	4:55 p. m.	5:05 p. m.	.02	.14	.30												
July 2	5:15 p. m.	6:50 p. m.	.52	5:22 p. m.	5:32 p. m.	.01	.24	.34												
July 8	5:05 p. m.	8:20 p. m.	1.52	5:10 p. m.	5:46 p. m.	.01	.11	.36	.50	.61	.75	1.01	1.16	1.21						
Sept. 6	3:41 p. m.	4:20 p. m.	.56	4:02 p. m.	4:15 p. m.	.04	.13	.43	.52											
MIDDLE ATLANTIC STATES.																				
Albany, N. Y.:																				
June 5	5:20 p. m.	9:50 p. m.	.49	6:22 p. m.	6:32 p. m.	.06	.17	.36												
June 11	8:18 a. m.	9:20 a. m.	.90	8:37 a. m.	9:09 a. m.	.01	.15	.27	.31	.33	.56	.85	.87							
Do	11:54 a. m.	3:50 p. m.	1.39	1:16 p. m.	1:43 p. m.	.34	.37	.39	.49	.59	.87	.91								
Sept. 12	5:47 a. m.	8:35 a. m.	1.01	6:16 a. m.	7:20 a. m.	.01	.10	.22	.25	.32	.37	.45	.56	.67	.73	.79	.90	.98		
Binghamton, N. Y.:																				
June 6	4:50 p. m.	5:45 p. m.	.55	5:02 p. m.	5:27 p. m.	.01	.14	.30	.41	.47	.53									
June 10	8:40 p. m.	9:45 p. m.	.31	8:43 p. m.	8:49 p. m.	.01	.25	.29												
June 11	12:50 p. m.	2:45 p. m.	.47	1:22 p. m.	1:10 p. m.	.02	.06	.10	.34	.43										
July 18	1:35 p. m.	4:15 p. m.	.94	1:57 p. m.	2:42 p. m.	.08	.20	.25	.33	.42	.49	.57	.62	.68	.74					
Aug. 7	6:10 p. m.	7:10 p. m.	.72	6:18 p. m.	6:49 p. m.	.01	.28	.32	.39	.42	.49	.64	.68							
Aug. 18	8:00 p. m.	8:55 p. m.	.91	8:00 p.m.	8:50 p. m.	.00	.05	.25	.41	.49	.50	.50	.51	.57	.77	.90				
Aug. 24	12:25 a. m.	4:30 a. m.	2.61	12:29 a. m.	1:29 a. m.	.01	.08	.23	.44	.67	.73	.85	.91	1.14	1.23	1.27	1.39			
Do	7:30 a. m.	9:12 a. m.	.47	8:00 a. m.	8:10 a. m.	.01	.12	.36												
Sept. 6	3:27 p. m.	7:30 p. m.	.91	3:30 p. m.	3:41 p. m.	.01	.36	.79	.81											
Sept. 11	8:05 p. m.	[2] D. N. a. m.	2.04	9:20 p. m.	9:35 p. m.	.38	.13	.29	.39											
Sept. 12	[3] 8:05 p. m.	D. N. a. m.	2.04	1:25 a. m.	2:01 a. m.	1.02	.08	.19	.28	.40	.57	.64	.70	.73						
New York, N. Y.:																				
June 6 [1]	3:00 a. m.	12:15 p. m.	1.95	7:05 a. m.	7:55 a. m.	1.04	.06	.12	.18	.25	.34	.44	.51	.61	.68	.75				
June 11	3:10 a. m.	3:55 a. m.	.62	3:11 a. m.	3:36 a. m.	T.	.14	.41	.48	.53	.59									
June 17	5:15 p. m.	6:10 p. m.	.45	5:21 p. m.	5:31 p. m.	.01	.15	.39												
June 18	2:35 p. m.	5:15 p. m.	.99	3:45 p. m.	4:05 p. m.	.35	.05	.18	.35	.44										
July 1	8:40 a. m.	1:20 p. m.	1.59	10:55 a. m.	11:25 a. m.	.04	.10	.39	.74	.92	1.03	1.10								
July 8 [1]	4:05 p. m.	5:20 p. m.	.46	4:08 p. m.	4:23 p. m.	T.	.12	.29	.38											
July 18	4:48 p. m.	9:40 p. m.	2.25	5:56 p. m.	6:41 p. m.	.01	.07	.20	.37	.67	.87	1.30	1.51	1.73	1.85					
Aug. 3	12:30 a. m.	3:00 a. m.	.43	1:50 a. m.	2:05 a. m.	T.	.21	.32	.40											
Aug. 26 [1]	5:40 a. m.	10:10 a. m.	1.95	8:05 a. m.	8:50 a. m.	.14	.27	.56	.84	.97	1.11	1.26	1.36	1.44	1.53					
Aug. 31	3:50 p. m.	6:45 p. m.	.95	5:52 p. m.	6:07 p. m.	.50	.09	.28	.36											
Harrisburg, Pa.:																				
May 14	8:00 a. m.	2:45 p. m.	.75	10:14 a. m.	10:43 a. m.	.05	.13	.20	.22	.31	.44	.53								
June 6	9:50 p. m.	[2] D. N. a. m.	.60	11:26 p. m.	11:38 p. m.	.16	.16	.36	.44											
July 1	7:55 p. m.	[2] D. N. a. m.	1.15	8:00 p. m.	8:25 p. m.	.01	.24	.39	.46	.54	.59									
Sept. 11	6:55 p. m.	10:15 p. m.	.80	7:17 p. m.	7:29 p. m.	.10	.13	.41	.51											
Oct. 8	11:41 a. m.	12:28 p. m.	1.07	11:44 a. m.	12:13 p. m.	.01	.09	.34	.50	.69	.93	1.03								
Oct. 10	[3] 7:25 p. m.	5:40 a. m.	1.71	2:40 a. m.	3:00 a. m.	.71	.10	.23	.37	.49										
Philadelphia, Pa.:																				
Mar. 7	4:00 p. m.	6:25 p. m.	.80	5:11 p. m.	5:21 p. m.	.11	.40	.50												
June 21	3:57 p. m.	5:00 p. m.	.57	4:11 p. m.	4:24 p. m.	.01	.23	.45	.55											
July 1	5:50 p. m.	7:10 p. m.	.63	5:56 p. m.	6:10 p. m.	.03	.29	.50	.55											
Sept. 4	12:14 p. m.	3:20 p. m.	.49	1:20 p. m.	1:39 p. m.	.01	.19	.32	.41	.45										
Reading, Pa.:																				
June 6	9:35 p. m.	[2] 12:40 a. m.	1.70	10:01 p. m.	10:55 p. m.	.01	.36	.47	.66	.79	.81	.83	.94	1.05	1.11	1.27	1.40			
June 17	6:10 p. m.	7:08 p. m.	1.88	6:10 p. m.	6:58 p. m.	.00	.20	.52	.56	.61	.77	.98	1.30	1.44	1.64	1.86				
July 1	4:10 p. m.	5:10 p. m.	.63	4:19 p. m.	4:32 p. m.	.03	.23	.47	.60											
July 18	6:58 p. m.	10:50 p. m.	.61	7:06 p. m.	7:19 p. m.	.01	.07	.33	.41											
Aug. 3	6:28 p. m.	8:40 p. m.	.86	7:43 p. m.	8:03 p. m.	.31	.06	.31	.42	.49										
Aug. 31	11:38 a. m.	2:20 p. m.	2.32	12:02 p. m.	12:57 p. m.	.03	.10	.30	.51	.67	.81	.93	1.10	1.46	1.77	1.97	2.07			

[1] Defective record. [2] On following date. [3] On previous date.

Accumulated amounts of precipitation for each 5 minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes or 0.80 in 1 hour during 1922 at all stations furnished with self-registering gauges—Continued.

Station and date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.													
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
MIDDLE ATLANTIC STATES—continued.																				
Scranton, Pa.:																				
Apr. 11	6:20 p. m.	[2]D. N. a. m.	0.60	6:26 p. m.	6:51 p. m.	0.01	0.07	0.28	0.39	0.43	0.45									
June 3	2:06 p. m.	5:35 p. m.	1.32	2:08 p. m.	2:31 p. m.	.01	.15	.34	.57	.64	.69									
June 17	9:03 p. m.	9:25 p. m.	.58	9:03 p. m.	9:14 p. m.	.00	.21	.54	.57											
Do	11:00 p. m.	11:45 p. m.	1.20	11:00 p. m.	11:35 p. m.	.00	.12	.44	.82	.98	1.05	1.14	1.19							
June 28	7:19 p. m.	11:20 p. m.	1.19	9:48 p. m.	10:29 p. m.	.02	.16	.34	.47	.65	.81	.87	.96	1.05	1.09					
July 1	5:30 a. m.	8:30 a. m.	1.71	5:41 a. m.	6:56 a. m.	.02	.11	.30	.33	.43	.44	.47	.48	.58	.83	0.90	1.15	1.44		
July 28	12:01 p. m.	1:50 p. m.	2.02	12:26 p. m.	1:18 p. m.	.08	.08	.17	.38	.72	1.17	1.18	1.22	1.45	1.67	1.81	1.91			
Aug. 26	1:30 a. m.	D. N. a. m.	.72	1:40 a. m.	1:55 a. m.	.07	.12	.29	.40											
Oct. 8	7:58 a. m.	10:25 a. m.	.72	9:02 a. m.	9:30 a. m.	.17	.05	.18	.26	.44	.49	.52								
Do	11:06 a. m.	4:55 p. m.	.51	11:08 a. m.	11:18 a. m.	.01	.22	.31												
Oct. 10	5:20 a. m.	7:20 a. m.	.82	5:45 a. m.	6:22 a. m.	.08	.06	.10	.17	.27	.39	.53	.65	.67						
Atlantic City, N. J.:																				
June 6	D. N. a. m.	9:20 a. m.	1.28	7:21 a. m.	8:21 a. m.	.13	.11	.20	.32	.42	.51	.59	.65	.71	.77	.83	.94			
June 18	6:27 p. m.	9:05 p. m.	1.51	8:00 p. m.	8:49 p. m.	.10	.11	.30	.49	.75	.96	1.04	1.09	1.22	1.31	1.39				
July 1	7:23 p. m.	9:45 p. m.	1.26	7:33 p. m.	8:39 p. m.	.02	.18	.31	.39	.48	.55	.61	.65	.67	.70	.71	.81	1.22		
July 2	1:20 a. m.	2:45 a. m.	.56	1:33 a. m.	1:47 a. m.	.02	.15	.36	.50											
Aug. 2	6:10 p. m.	6:34 p. m.	.45	6:12 p. m.	6:25 p. m.	.01	.15	.30	.42											
Aug. 3	11:00 a. m.	12:20 p. m.	1.15	11:04 a. m.	11:38 a. m.	.01	.08	.20	.46	.61	.82	1.02	1.12							
Aug. 8	D. N. a. m.	D. N. a. m.	1.11	3:47 a. m.	4:28 a. m.	.17	.31	.45	.48	.49	.55	.75	.83	.89	.91					
Sandy Hook, N. J.:																				
May 18	1:35 p. m.	6:05 p. m.	.83	3:52 p. m.	4:03 p. m.	.20	.24	.36	.38											
June 6	D. N. a. m.	7:25 a. m.	1.20	6:35 a. m.	7:10 a. m.	.49	.08	.19	.25	.34	.47	.58	.69							
June 18	3:25 p. m.	4:25 p. m.	.57	4:01 p. m.	4:18 p. m.	.04	.14	.34	.47	.53										
June 27	12:08 p. m.	12:37 p. m.	.45	12:16 p. m.	12:25 p. m.	.03	.19	.38												
June 28	2:12 p. m.	4:15 p. m.	1.40	2:25 p. m.	3:36 p. m.	.05	.12	.20	.38	.59	.66	.75	.76	.76	.78	.87	1.12	1.32		
July 1	11:34 a. m.	12:30 p. m.	.60	11:41 a. m.	11:58 a. m.	.01	.12	.25	.41	.45										
July 13	1:57 p. m.	2:50 p. m.	.68	2:02 p. m.	2:27 p. m.	.02	.20	.31	.42	.56	.63									
July 18	2:50 p. m.	8:20 p. m.	2.10	5:04 p. m.	6:43 p. m.	.18	.11	.23	.31	.33	.48	.55	.66	.72	.72	.73	.80	1.23	1.60	
Aug. 31	4:14 p. m.	7:10 p. m.	.72	4:38 p. m.	4:56 p. m.	.06	.06	.11	.27	.42										
Sept. 6	8:00 p. m.	8:55 p. m.	.45	8:07 p. m.	8:15 p. m.	.01	.30	.43												
Trenton, N. J.:																				
June 3	4:15 p. m.	8:10 p. m.	.84	5:30 p. m.	6:00 p. m.	.10	.06	.13	.22	.28	.54	.60								
June 21	4:05 p. m.	5:22 p. m.	.64	4:05 p. m.	4:21 p. m.	.00	.19	.43	.59	.61										
Aug. 1	12:05 p. m.	7:28 p. m.	1.38	3:06 p. m.	4:06 p. m.	.05	.15	.18	.24	.36	.48	.51	.54	.59	.65	.68	1.09			
Aug. 26	7:22 a. m.	8:20 a. m.	.42	7:25 a. m.	7:39 a. m.	.01	.16	.33	.39											
Aug. 31	2:46 p. m.	5:45 p. m.	.92	4:55 p. m.	5:10 p. m.	.17	.19	.50	.61											
Sept. 4	12:03 p. m.	1:40 p. m.	.91	12:09 p. m.	12:29 p. m.	.01	.44	.64	.73	.79										
Baltimore, Md.:																				
June 3	2:57 p. m.	6:40 p. m.	.44	2:57 p. m.	3:12 p. m.	.00	.23	.32	.42											
June 8	3:22 p. m.	5:55 p. m.	1.03	4:04 p. m.	4:34 p. m.	.11	.12	.17	.36	.55	.63	.75								
July 2	3:06 p. m.	5:00 p. m.	1.92	3:43 p. m.	4:28 p. m.	.01	.22	.34	.46	.68	1.05	1.24	1.35	1.60	1.84					
July 18	1:35 p. m.	3:20 p. m.	.74	1:55 p. m.	2:16 p. m.	.02	.17	.40	.51	.57	.60									
July 22	3:05 p. m.	3:40 p. m.	1.06	3:13 p. m.	3:34 p. m.	.03	.09	.37	.83	.94	1.03									
Sept. 8	12:40 a. m.	D. N. a. m.	.92	1:02 a. m.	1:38 a. m.	.04	.14	.30	.38	.45	.50	.59	.64	.67						
Sept. 12	[2]7:50 p. m.	6:00 a. m.	1.16	12:04 a. m.	12:35 a. m.	.33	.09	.18	.26	.39	.45	.52	.55							
Oct. 10	[3]9:40 p. m.	5:00 a. m.	4.95	2:28 a. m.	3:18 a. m.	1.12	.12	.18	.21	.25	.42	.56	.83	.99	1.21	1.49				
				3:18 a. m.	4:08 a. m.	.....	1.61	1.81	1.97	2.05	2.11	2.23	2.62	2.67	2.81	3.01				
				4:08 a. m.	4:47 a. m.	.....	3.10	3.20	3.29	3.42	3.45	3.56	3.71	3.80						
Washington, D. C.:																				
May 4	2:40 p. m.	8:15 p. m.	1.50	5:05 p. m.	6:03 p. m.	.44	.05	.14	.18	.21	.25	.30	.42	.50	.57	.68	.99			
June 2	2:55 p. m.	8:20 p. m.	.78	6:54 p. m.	7:06 p. m.	.25	.28	.40	.43											
June 11	7:44 p. m.	8:25 p. m.	.37	7:47 p. m.	7:57 p. m.	.01	.21	.33												
June 17	5:45 p. m.	7:40 p. m.	.48	6:13 p. m.	6:29 p. m.	.06	.05	.22	.36	.40										
June 21	2:14 p. m.	3:32 p. m.	.40	2:20 p. m.	2:27 p. m.	.01	.32	.39												
July 3	3:15 p. m.	4:05 p. m.	1.00	3:32 p. m.	3:49 p. m.	.01	.43	.80	.94	.98										
July 8	1:38 p. m.	2:38 p. m.	.37	2:13 p. m.	2:19 p. m.	.03	.25	.29												
July 13	4:05 p. m.	8:40 p. m.	3.33	4:43 p. m.	6:02 p. m.	.02	.34	.68	.91	1.01	1.08	1.22	1.59	1.94	2.24	2.54	2.79	3.10		
July 17	4:20 p. m.	5:45 p. m.	.66	4:46 p. m.	5:10 p. m.	.07	.16	.20	.29	.49	.56									
July 18	1:28 p. m.	1:50 p. m.	.86	1:30 p. m.	1:46 p. m.	.01	.38	.57	.84	.85										
July 19	6:47 p. m.	8:20 p. m.	1.43	7:16 p. m.	7:58 p. m.	.01	.20	.37	.69	.82	.98	1.15	1.25	1.35	1.39					
Aug. 14	12:03 p. m.	1:40 p. m.	.66	12:56 p. m.	1:10 p. m.	.01	.18	.42	.54											
Aug. 19	1:05 p. m.	2:20 p. m.	1.25	1:17 p. m.	2:02 p. m.	.01	.11	.22	.31	.31	.31	.62	.85	.97	1.22					
Sept. 2	1:55 a. m.	10:25 a. m.	5.16	5:32 a. m.	7:08 a. m.	.66	.21	.41	.67	.93	1.10	1.25	1.37	1.51	1.65	1.81	2.35	2.96	3.45	
Cape Henry, Va.:																				
Mar. 28	2:08 p. m.	4:13 p. m.	1.06	3:29 p. m.	3:58 p. m.	.15	.09	.17	.31	.36	.70	.90								
June 18	10:30 p. m.	[2]12:45 a. m.	1.85	10:41 p. m.	11:31 p. m.	.05	.08	.28	.60	.89	1.16	1.40	1.47	1.56	1.61	1.68				
June 29	1:45 p. m.	2:50 p. m.	.75	2:01 p. m.	2:31 p. m.	.08	.14	.28	.34	.35	.37	.64								
Do	3:30 p. m.	5:25 p. m.	1.09	3:44 p. m.	4:34 p. m.	.04	.07	.24	.39	.55	.65	.72	.82	.86	.98	1.04				
July 4	2:18 p. m.	9:50 p. m.	4.15	2:25 p. m.	3:49 p. m.	.02	.27	.76	.89	.95	1.07	1.38	1.70	1.82	1.88	2.12	2.48	3.22	3.34	
July 28	3:00 p. m.	4:50 p. m.	1.47	3:04 p. m.	3:43 p. m.	.01	.05	.11	.21	.36	.65	.94	1.26	1.38						
Aug. 27	6:57 a. m.	10:30 a. m.	1.36	7:31 a. m.	7:56 a. m.	.03	.06	.17	.33	.59	.72									
Do	5:20 p. m.	7:05 p. m.	1.01	5:23 p. m.	5:33 p. m.	.01	.61	.76												
Sept. 2	11:06 a. m.	11:44 a. m.	1.31	11:09 a. m.	11:38 a. m.	.01	.05	.14	.36	.65	1.09	1.28								
Do	11:59 a. m.	12:40 p. m.	.63	12:03 p. m.	12:20 p. m.	.02	.09	.27	.53	.60										
Lynchburg, Va.:																				
May 26	5:30 p. m.	7:50 p. m.	1.22	6:56 p. m.	7:34 p. m.	.46	.05	.16	.36	.47	.56	.65	.70	.73						
June 17	5:40 p. m.	6:35 p. m.	.42	6:06 p. m.	6:16 p. m.	.04	.15	.37												
June 30	9:45 p. m.	10:30 p. m.	.40	10:03 p. m.	10:14 p. m.	.01	.28	.36	.39											
Norfolk Va.:																				
May 26	6:03 p. m.	[2]D. N. a. m.	1.80	9:30 p. m.	9:56 p. m.	.20	.20	.40	.52	.59	.69	.72								
Do	6:03 p. m.	[2]D. N. a. m.	1.80	10:30 p. m.	11:00 p. m.	1.06	.05	.12	.27	.38	.45	.50								
June 1	11:50 a. m.	12:32 p. m.	.71	12:01 p. m.	12:17 p. m.	.01	.33	.54	.67	.69										
June 3	2:14 p. m.	5:25 p. m.	.72	2:19 p. m.	2:54 p. m.	.01	.14	.26	.34	.36	.40	.51	.60							
June 5	10:25 a. m.	7:30 p. m.	1.87	12:59 p. m.	1:41 p. m.	.27	.16	.33	.55	.70	.77	.82	.88	1.11	1.23					
June 8	6:50 p. m.	10:15 p. m.	1.64	6:52 p. m.	7:31 p. m.	.01	.17	.33	.47	.72	.93	1.12	1.21	1.27						

[1] On following date. [2] On previous date.

Accumulated amounts of precipitation for each 5 minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes or 0.80 in 1 hour during 1922 at all stations furnished with self-registering gauges—Continued.

Station and date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.													
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
MIDDLE ATLANTIC STATES—continued.																				
Norfolk, Va.—Con.																				
June 9	2:11 p. m.	3:40 p. m.	0.68	2:16 p. m.	2:31 p. m.	0.01	0.28	0.44	0.55											
Do	4:25 p. m.	5:50 p. m.	.80	4:34 p. m.	4:52 p. m.	.01	.08	.15	.41	0.48										
June 21	7:25 p. m.	8:40 p. m.	.55	7:33 p. m.	7:45 p. m.	.01	.18	.40	.46											
July 4	2:20 p. m.	9:30 p. m.	2.10	2:36 p. m.	3:00 p. m.	.02	.23	.57	.86	1.00	1.04									
July 13	4:00 p. m.	5:30 p. m.	.91	4:09 p. m.	4:40 p. m.	.01	.06	.16	.41	.57	.65	0.70	0.74							
July 18	9:15 p. m.	[2] D. N. a. m.	.80	10:40 p. m.	10:56 p. m.	.03	.13	.30	.43	.47										
July 20	[3] 3:43 p. m.	7:40 a. m.	2.75	5:07 a. m.	5:59 a. m.	1.86	.11	.23	.32	.39	.48	.54	.58	0.63	0.67	0.75	0.83			
July 28	2:40 p. m.	5:00 p. m.	.73	2:45 p. m.	3:05 p. m.	.01	.11	.28	.43	.50										
Aug. 3	2:25 p. m.	3:15 p. m.	1.49	2:29 p. m.	3:08 p. m.	.01	.15	.42	.75	.86	1.01	1.22	1.34	1.46						
Aug. 13	D. N. a. m.	12:10 p. m.	2.24	7:07 a. m.	7:46 a. m.	.34	.35	.48	.50	.54	.64	.68	.75	.85						
Aug. 27	4:45 p. m.	[2] D. N. a. m.	.84	4:48 p. m.	5:10 p. m.	.01	.06	.19	.51	.59	.63									
Oct. 8	D. N. a. m.	6:45 a. m.	.64	6:09 a. m.	6:24 a. m.	.22	.06	.15	.36											
Oct. 10	11:25 a. m.	1:30 p. m.	.51	11:55 a. m.	12:11 p. m.	.02	.23	.30	.42	.44										
Richmond, Va.:																				
June 3	6:15 p. m.	7:55 p. m.	.99	6:35 p. m.	6:47 p. m.	.01	.35	.69	.72											
June 21	4:50 p. m.	6:05 p. m.	.67	4:56 p. m.	5:06 p. m.	.01	.26	.43												
July 13	6:45 p. m.	D. N. p. m.	2.96	6:49 p. m.	7:58 p. m.	.01	.12	.17	.25	.49	.69	1.02	1.36	1.66	1.87	2.07	2.33	2.39		
July 18	2:43 p. m.	4:50 p. m.	.63	2:48 p. m.	3:13 p. m.	.01	.10	.19	.27	.42	.47									
July 20	5:12 p. m.	10:15 p. m.	.44	5:32 p. m.	5:48 p. m.	.04	.10	.20	.37	.39										
July 28	12:27 p. m.	1:12 p. m.	1.97	12:33 p. m.	1:02 p. m.	.01	.30	.70	.91	1.09	1.53	1.95								
Aug. 8	5:25 p. m.	6:20 p. m.	.64	5:36 p. m.	5:51 p. m.	.01	.21	.42	.50											
Aug. 26	6:07 p. m.	[2] D. N. a. m.	3.10	9:15 p. m.	9:47 p. m.	1.08	.10	.34	.68	1.05	1.28	1.53	1.59							
Oct. 9	1:30 p. m.	1:53 p. m.	.40	1:34 p. m.	1:42 p. m.	.01	.31	.39												
Wytheville, Va.:																				
May 11	4:10 p. m.	5:05 p. m.	.62	4:23 p. m.	4:43 p. m.	.06	.16	.24	.33	.45										
June 2	6:25 p. m.	D. N. p. m.	1.91	6:34 p. m.	7:25 p. m.	.01	.09	.16	.26	.33	.49	.67	.94	1.10	1.24	1.41	1.47			
June 4	12:10 p. m.	12:50 p. m.	.81	12:18 p. m.	12:38 p. m.	.01	.13	.32	.64	.80										
June 28	1:08 p. m.	2:15 p. m.	1.03	1:10 p. m.	1:25 p. m.	T.	.18	.53	.76											
July 20	8:45 p. m.	11:35 p. m.	1.43	9:19 p. m.	10:07 p. m.	.10	.13	.45	.61	.75	.79	.92	1.01	1.07	1.19	1.23				
Aug. 16	4:46 p. m.	6:15 p. m.	.88	4:49 p. m.	5:07 p. m.	.01	.20	.50	.63	.66										
Sept. 11	12:06 p. m.	1:00 p. m.	.36	12:08 p. m.	12:16 p. m.	.01	.25	.29												
Oct. 7	3:10 p. m.	4:45 p. m.	.69	4:16 p. m.	4:34 p. m.	.27	.10	.21	.31	.40										
Oct. 9	11:00 a. m.	[2] 6:00 a. m.	2.45	6:39 p. m.	6:57 p. m.	.70	.11	.26	.40	.48										
SOUTH ATLANTIC STATES.																				
Asheville, N. C.: [4]																				
June 20	4:50 p. m.	6:50 p. m.	1.41	5:08 p. m.	5:46 p. m.	.02	.16	.45	.64	.65	.71	.85	1.08	1.19						
Charlotte, N. C.: [5]																				
July 2	5:04 p. m.	6:10 p. m.	.80	5:06 p. m.	5:23 p. m.	.01	.25	.50	.63	.69										
July 9	2:25 p. m.	3:46 p. m.	1.08	2:59 p. m.	3:21 p. m.	.13	.12	.37	.72	.89	.92									
Oct. 7	4:40 a. m.	7:52 a. m.	1.51	6:10 a. m.	6:24 a. m.	.86	.14	.36	.53											
Do	8:17 p. m.	9:05 p. m.	.50	8:19 p. m.	8:31 p. m.	.01	.26	.40	.44											
Hatteras, N. C.: [4]																				
May 14	2:08 p. m.	2:51 p. m.	1.30	2:11 p. m.	2:34 p. m.	.02	.28	.80	.99	1.17	1.24									
June 1	[3] 10:40 a. m.	9:57 a. m.	6.12	4:21 a. m.	5:54 a. m.	2.57	.06	.14	.17	.38	.43	.50	.54	.57	.61	.75	1.29	2.59	2.79	
July 14	D. N. a. m.	6:22 a. m.	1.57	2:06 a. m.	2:42 a. m.	.02	.08	.16	.43	.58	.83	1.05	1.19	1.23						
Sept. 2	4:46 p. m.	D. N. p. m.	2.14	6:31 p. m.	7:01 p. m.	.35	.15	.38	.64	1.04	1.32	1.48								
Raleigh, N. C.: [4]																				
June 8	7:36 p. m.	8:50 p. m.	1.21	7:37 p. m.	8:12 p. m.	.01	.15	.29	.30	.38	.82	.98	1.13							
Aug. 16	3:25 p. m.	7:20 p. m.	2.48	3:25 p. m.	4:05 p. m.	.00	.47	.88	1.28	1.50	1.64	1.79	1.94	2.05						
Wilmington, N. C.: [4]																				
May 17	D. N. a. m.	10:50 a. m.	2.32	5:10 a. m.	6:15 a. m.	.48	.05	.11	.20	.29	.37	.44	.63	.76	1.06	1.19	1.40	1.54		
July 21	9:45 p. m.	[2] D. N. a. m.	2.00	9:55 p. m.	10:31 p. m.	.01	.23	.71	.96	1.03	1.09	1.21	1.32	1.36						
July 26	1:27 p. m.	3:55 p. m.	1.19	1:35 p. m.	2:18 p. m.	.01	.09	.12	.22	.43	.60	.71	.83	.97	1.05					
Sept. 4	11:40 a. m.	1:00 p. m.	1.22	11:58 a. m.	12:28 p. m.	.05	.05	.28	.67	.93	1.04	1.16								
Sept. 11	D. N. a. m.	6:10 a. m.	2.96	2:32 a. m.	3:16 a. m.	.01	.39	.78	1.22	1.50	1.64	1.91	2.24	2.42	2.57					
Sept. 13	2:30 p. m.	5:00 p. m.	1.65	3:20 p. m.	4:01 p. m.	.18	.09	.28	.41	.45	.66	.96	1.23	1.36	1.40					
Charleston, S. C.: [4]																				
May 16	12 noon.	9:45 p. m.	2.28	1:29 p. m.	2:01 p. m.	.05	.19	.50	.77	.87	1.00	1.07	1.12							
May 27	11:40 a. m.	1:20 p. m.	1.60	11:40 a. m.	12:26 p. m.	.00	.11	.41	.87	1.16	1.25	1.34	1.39	1.44	1.49	1.52				
May 31	D. N. p. m.	[2] D. N. a. m.	1.21	11:09 p. m.	11:41 p. m.	.01	.11	.35	.70	.92	1.02	1.08	1.11							
Oct. 17-18	10:23 p. m.	7:40 a. m.	2.39	11:17 p. m.	12:03 a. m.	.08	.19	.37	.60	.72	.77	.86	1.04	1.22	1.38	1.40				
Columbia, S. C.: [4]																				
June 4	12:05 p. m.	1:20 p. m.	1.43	12:18 p. m.	12:52 p. m.	.01	.29	.51	.62	.84	1.03	1.24	1.41							
July 4	5:00 p. m.	9:00 p. m.	1.82	5:34 p. m.	6:15 p. m.	.03	.15	.43	.71	1.04	1.36	1.59	1.65	1.70	1.71					
July 26 [1]	2:55 p. m.	6:00 p. m.	1.75	3:01 p. m.	3:23 p. m.	.01	.55	1.05	1.39	1.60	1.64									
Sept. 4-5	10:50 p. m.	[2] D. N. a. m.	1.45	11:15 p. m.	12:01 a. m.	.04	.07	.37	.55	.75	.96	1.10	1.20	1.32	1.39	1.40				
Due West, S. C.: [4]																				
July 15	3:01 p. m.	4:22 p. m.	1.19	3:41 p. m.	3:59 p. m.	.03	.35	.84	1.07	1.12										
Greenville, S. C.: [4]																				
June 2	[3] 5:45 p. m.	7:40 a. m.	2.69	6:09 a. m.	6:59 a. m.	1.53	.11	.27	.36	.38	.46	.56	.67	.77	.91	1.06				
June 4	3:05 p. m.	6:20 p. m.	1.13	3:18 p. m.	3:53 p. m.	.02	.29	.50	.59	.65	.74	.91	1.00							
Oct. 7	[2] 8:15 p. m.	D. N. a. m.	2.68	2:07 a. m.	3:25 a. m.	1.12	.11	.32	.58	.69	.81	.91	.97	1.03	1.11	1.16	1.26	1.48		
Augusta, Ga.: [4]																				
June 6	3:40 p. m.	5:20 p. m.	1.59	3:52 p. m.	4:30 p. m.	.01	.27	.58	.97	1.25	1.33	1.37	1.44	1.48						
Aug. 17	1:22 p. m.	4:45 p. m.	1.61	1:53 p. m.	2:34 p. m.	.02	.24	.36	.37	.46	.64	.86	.98	1.15	1.18					
Savannah, Ga.: [4]																				
June 26	2:40 p. m.	5:53 p. m.	1.99	3:14 p. m.	3:49 p. m.	.01	.26	.66	.97	1.12	1.30	1.53	1.64							
Aug. 9	1:05 p. m.	8:30 p. m.	3.85	1:44 p. m.	3:29 p. m.	.13	.19	.22	.23	.29	.41	.42	.56	.91	1.16	1.28	1.66	2.18	2.97	3.12
Aug. 20	12:03 p. m.	3:20 p. m.	1.46	12:08 p. m.	12:40 p. m.	.01	.18	.48	.68	.91	1.04	1.19	1.24							
Sept. 4-5	11:06 p. m.	D. N. a. m.	2.58	11:37 p. m.	12:38 a. m.	.11	.17	.42	.91	1.14	1.25	1.29	1.51	1.69	1.85	2.01	2.31	2.43		
Sept. 5	3:20 p. m.	7:20 p. m.	1.70	3:27 p. m.	4:13 p. m.	.01	.11	.33	.52	.52	.55	.59	.71	1.02	1.14	1.17				

[1] Defective record. [2] On following date. [3] On previous date. [4] Only storms at the rate of 1 inch or more in 1 hour or less. [5] Only the more important storms recorded.

Accumulated amounts of precipitation for each 5 minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes or 0.80 in 1 hour during 1922 at all stations furnished with self-registering gauges—Continued.

Station and date.	Total duration. From—	Total duration. To—	Total amount of precipitation.	Excessive rate. Began—	Excessive rate. Ended—	Amount before excessive rate began.	5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
SOUTH ATLANTIC STATES—continued.																				
Jacksonville, Fla.:[4]																				
Feb. 24	4:10 p. m.	6:30 p. m.	1.23	4:25 p. m.	4:48 p. m.	0.01	0.38	0.70	0.97	1.08	1.14									
Mar. 15	11:48 a. m.	12:33 p. m.	1.19	12:03 p. m.	12:33 p. m.	.01	.14	.40	.70	.72	.81	1.18								
May 28[1]	8:59 a. m.	9:00 p. m.	4.46	11:18 a. m.	12:08 p. m.	.36	.09	.17	.34	.65	.81	.92	0.97	1.06	1.18	1.39				
				12:08 p. m.	12:58 p. m.		1.57	1.72	1.85	1.92	2.02	2.12	2.20	2.33	2.42	2.59				
				12:58 p. m.	1:24 p. m.		2.77	2.95	3.02	3.07	3.14									
Aug. 16	10:34 a. m.	4:07 p. m.	2.00	10:40 a. m.	11:55 a. m.	.01	.12	.33	.43	.64	.79	.94	1.08	1.23	1.37	1.48	1.63	1.89		
FLORIDA PENINSULA.																				
Key West, Fla.:[4]																				
May 29	4:40 p. m.	[2] D. N. a. m.	1.87	4:51 p. m.	5:56 p. m.	.01	.14	.27	.46	.55	.68	.79	.91	1.03	1.16	1.22	1.33			
June 3	10:41 a. m.	5:20 p. m.	2.22	10:47 a. m.	11:17 a. m.	.01	.20	.59	.95	1.45	1.78	2.01								
July 15	1:12 p. m.	3:20 p. m.	1.89	1:15 p. m.	2:11 p. m.	.01	.17	.40	.62	.77	1.04	1.22	1.44	1.61	1.71	1.77	1.86			
Sept. 18	5:32 p. m.	6:25 p. m.	1.20	5:37 p. m.	6:00 p. m.	.01	.31	.68	.96	1.09	1.16									
Miami, Fla.:[4]																				
Feb. 21	5:47 p. m.	8:15 p. m.	2.51	6:26 p. m.	7:24 p. m.	.03	.16	.21	.41	.62	.91	1.41	1.79	1.94	2.11	2.23	2.45			
May 30	3:30 p. m.	6:46 p. m.	2.86	3:56 p. m.	4:46 p. m.	.02	.15	.29	.52	.71	.77	.77	.84	1.00	1.18	1.32				
				4:46 p. m.	5:36 p. m.		1.39	1.39	1.42	1.49	1.74	1.77	1.82	1.82	1.88	1.97				
				5:36 p. m.	6:05 p. m.		2.14	2.26	2.30	2.33	2.49	2.62								
July 15	6:20 a. m.	10:20 a. m.	1.70	7:07 a. m.	7:34 a. m.	.36	.21	.43	.59	.89	1.11	1.18								
Sept. 21	12:20 p. m.	2:02 p. m.	1.70	1:18 p. m.	1:42 p. m.	.44	.13	.49	.83	1.10	1.19									
Sept. 22	7:20 a. m.	D. N. p. m.	2.61	10:28 a. m.	11:01 a. m.	.08	.06	.11	.37	.68	.86	1.01	1.09							
Oct. 7	D. N. p. m.	[3] D. N. a. m.	1.37	10:57 p. m.	11:18 p. m.	.01	.08	.55	.83	1.09	1.12									
Oct. 12	D. N. a. m.	2:45 p. m.	2.13	5:13 a. m.	6:37 a. m.	.08	.08	.12	.24	.35	.42	.48	.58	.75	.78	.89	1.07	1.44	1.61	
Oct. 30	D. N. a. m.	D. N. a. m.	1.45	4:39 a. m.	5:24 a. m.	.01	.17	.18	.18	.33	.64	1.02	1.30	1.37	1.42					
Nov. 24	7:25 a. m.	9:15 a. m.	1.19	7:45 a. m.	8:48 a. m.	.03	.24	.32	.32	.36	.53	.69	.76	.71	.75	.82	1.00	1.15		
Tampa, Fla.:[4]																				
Aug. 18	7:55 p. m.	8:55 p. m.	1.15	7:57 p. m.	8:20 p. m.	.02	.17	.61	.87	1.04	1.10									
Aug. 20	1:00 p. m.	2:28 p. m.	1.36	1:19 p. m.	2:10 p. m.	.03	.23	.33	.40	.73	.91	.96	.99	1.00	1.06	1.26	1.32			
Sept. 13	4:20 p. m.	6:45 p. m.	1.33	4:25 p. m.	4:48 p. m.	.01	.28	.45	.81	1.12	1.21									
EAST GULF STATES.																				
Atlanta, Ga.:[4]																				
May 23	11:40 a. m.	12:35 p. m.	1.15	11:51 a. m.	12:26 p. m.	.01	.08	.33	.53	.68	.85	1.01	1.12							
Macon, Ga.:[4]																				
Mar. 6	3:25 p. m.	[2] 7:00 a. m.	6.37	10:22 p. m.	11:38 p. m.	2.06	.10	.14	.16	.18	.20	.33	.38	.52	.75	.86	1.09	1.60		
Mar. 7	[2] 3:25 p. m.	7:00 a. m.	6.37	2:01 a. m.	2:52 a. m.	1.16	.17	.32	.55	.60	.71	.77	.86	.98	1.18	1.52	1.59			
June 1	[2] 8:40 p. m.	11:35 a. m.	1.58	8:51 a. m.	10:01 a. m.	.21	.05	.13	.24	.41	.67	.77	.83	.87	.90	.93	1.01	1.37		
June 2	D. N. a. m.	D. N. a. m.	1.18	1:52 a. m.	2:34 a. m.	.01	.14	.25	.36	.42	.53	.72	.99	1.09	1.17					
July 19	5:38 p. m.	D. N. p. m.	2.80	6:12 p. m.	7:12 p. m.	.15	.09	.30	.60	.96	1.24	1.49	1.66	1.73	1.79	1.84	1.97			
July 22	3:50 p. m.	5:05 p. m.	1.25	3:52 p. m.	4:15 p. m.	.01	.23	.41	.65	1.01	1.22									
Thomasville, Ga.:[4]																				
Sept. 11	8:25 p. m.	[2] D. N. a. m.	2.65	8:45 p. m.	9:49 p. m.	.06	.17	.51	.94	1.17	1.38	1.51	1.64	1.75	1.84	1.93	2.07	2.22		
Dec. 9	4:13 p. m.	6:08 p. m.	1.80	4:22 p. m.	5:04 p. m.	.02	.16	.37	.70	1.11	1.32	1.51	1.54	1.65	1.72					
Apalachicola, Fla.:[4]																				
Aug. 24	8:22 a. m.	11:30 a. m.	3.17	8:25 a. m.	9:15 a. m.	.01	.09	.39	.74	.81	.84	.89	1.06	1.34	1.62	1.83				
				9:15 a. m.	10:05 a. m.		2.27	2.52	2.60	2.66	2.71	2.75	2.76	2.78	2.76	2.79				
				10:05 a. m.	10:28 a. m.		2.87	2.96	3.04	3.09	3.15									
Dec. 31	3:18 p. m.	11:00 p. m.	1.70	3:30 p. m.	4:33 p. m.	.01	.06	.14	.29	.37	.45	.61	.79	.94	1.03	1.06	1.23	1.31		
Pensacola, Fla.:[4]																				
July 4	6:15 a. m.	12:50 p. m.	2.10	9:50 a. m.	10:51 a. m.	.69	.05	.10	.15	.26	.50	.67	.70	.73	.76	.80	1.01	1.10		
July 7	1:03 p. m.	1:50 p. m.	1.36	1:03 p. m.	1:42 p. m.	.00	.12	.28	.45	.57	.69	1.03	1.30	1.36						
Aug. 1	12:10 p. m.	2:45 p. m.	1.61	12:12 p. m.	1:34 p. m.	.01	.08	.13	.15	.18	.24	.32	.36	.46	.63	.80	1.02	1.37	1.48	
Aug. 14	D. N. a. m.	2:00 p. m.	6.43	5:41 a. m.	6:31 a. m.	.45	.05	.17	.32	.50	.73	.91	1.04	1.25	1.63	1.95				
				6:31 a. m.	7:21 a. m.		2.07	2.39	2.56	2.88	3.14	3.41	3.73	3.82	3.88	4.07				
				7:21 a. m.	8:11 a. m.		4.23	4.38	4.45	4.49	4.62	4.71	4.83	4.97	5.07	5.15				
				8:11 a. m.	8:21 a. m.		5.20	5.26												
Oct. 5	8:45 a. m.	[2] 2:35 p. m.	3.58	2:54 p. m.	3:59 p. m.	.45	.09	.12	.21	.44	.73	.99	1.03	1.13	1.21	1.28	1.54	1.67		
Anniston, Ala.:[4]																				
Apr. 28	5:55 a. m.	3:45 p. m.	2.09	5:55 a. m.	6:53 a. m.	.00	.10	.25	.40	.53	.65	.81	.88	.93	.96	1.13	1.26			
June 6	9:42 p. m.	12:00 m'nt.	2.51	9:42 p. m.	10:32 p. m.	.00	.11	.35	.54	.74	.98	1.33	1.69	2.04	2.27	2.37				
Birmingham, Ala.:[4]																				
Mar. 10	[3] D. N. p. m.	D. N. a. m.	1.91	2:23 a. m.	3:17 a. m.	.13	.23	.55	.69	.77	.85	.90	.94	1.00	1.12	1.21	1.30			
July 13	12:18 p. m.	3:58 p. m.	1.85	12:25 p. m.	1:05 p. m.	.01	.24	.57	.94	1.20	1.46	1.61	1.69	1.74						
July 25	4:33 p. m.	6:10 p. m.	1.49	5:17 p. m.	6:00 p. m.	.03	.34	.45	.68	.96	1.12	1.26	1.34	1.42	1.46					
Mobile Ala.:[4]																				
Feb. 5	[2] D. N. p. m.	11:05 a. m.	2.37	2:04 a. m.	3:18 a. m.	.18	.06	.23	.35	.37	.59	.71	.76	.78	.81	.82	1.19	1.37		
Mar. 28	D. N. a. m.	3:05 p. m.	5.54	5:47 a. m.	6:37 a. m.	.04	.14	.31	.43	.47	.53	.73	1.01	1.16	1.24	1.31				
Do	D. N. a. m.	3:05 p. m.	5.54	7:21 a. m.	9:12 a. m.	1.45	.10	.16	.33	.49	.58	.81	1.06	1.25	1.42	1.58	1.95	2.43	2.66	2.83
May 2	2:35 p. m.	5:50 p. m.	1.79	3:27 p. m.	4:17 p. m.	.08	.06	.29	.61	.95	1.15	1.18	1.20	1.29	1.39	1.50				
July 19	1:50 p. m.	8:35 p. m.	4.53	5:07 p. m.	6:49 p. m.	.01	.30	.65	.81	.88	1.17	1.33	1.42	1.66	1.87	2.23	3.02	3.90	4.32	4.47
Aug. 9	2:09 p. m.	3:40 p. m.	2.33	2:11 p. m.	2:38 p. m.	.01	.33	.76	1.35	1.84	2.22	2.29								
Sept. 12	2:42 p. m.	4:05 p. m.	1.13	2:55 p. m.	3:30 p. m.	.05	.12	.21	.32	.62	.81	.93	1.00							
Sept. 16	4:10 p. m.	6:15 p. m.	1.21	4:33 p. m.	5:26 p. m.	.01	.10	.16	.29	.36	.43	.57	.73	.83	.92	1.00	1.11			
Oct. 6	D. N. a. m.	8:50 a. m.	2.34	4:05 a. m.	5:16 a. m.	.15	.08	.32	.53	.74	.99	1.11	1.26	1.33	1.37	1.46	1.62	1.81		
Montgomery, Ala.:[4]																				
July 17	4:27 p. m.	6:35 p. m.	1.14	4:58 p. m.	5:24 p. m.	.02	.20	.48	.66	.87	1.02	1.06								
Meridian, Miss.:[4]																				
Feb. 28	6:25 a. m.	2:45 p. m.	1.66	7:26 a. m.	8:25 a. m.	.02	.20	.36	.37	.39	.42	.57	.85	.92	.98	1.02	1.24			
May 3	2:30 p. m.	4:45 p. m.	1.09	2:42 p. m.	3:22 p. m.	.01	.18	.47	.63	.69	.77	.88	.95	1.03						
May 12	1:40 p. m.	2:30 p. m.	1.15	1:54 p. m.	2:06 p. m.	.01	.38	1.05	1.10											
July 30	1:15 p. m.	2:45 p. m.	1.42	1:27 p. m.	1:57 p. m.	.03	.17	.44	.83	.99	1.14	1.23								
Aug. 8	7:30 p. m.	D. N. p. m.	1.15	7:46 p. m.	8:27 p. m.	.04	.07	.12	.31	.53	.68	.78	.90	1.00	1.02					

[1] Defective record.
[2] On following date.
[3] On previous date.
[4] Only storms at the rate of 1 inch or more in 1 hour or less.
[5] Beginning July 1.

Accumulated amounts of precipitation for each 5 minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes or 0.80 in 1 hour during 1922 at all stations furnished with self-registering gauges—Continued.

Station and date.	Total duration. From—	Total duration. To—	Total amount of precipitation.	Excessive rate. Began—	Excessive rate. Ended—	Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated. 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.
EAST GULF STATES—continued.																				
Vicksburg, Miss.:[4]																				
Apr. 25	5:14 p. m.	8:15 p. m.	1.56	5:27 p. m.	6:16 p. m.	0.01	0.15	0.46	0.69	0.80	0.95	1.03	1.08	1.14	1.31	1.46				
May 20	1:10 p. m.	4:05 p. m.	1.45	1:26 p. m.	1:50 p. m.	.02	.14	.56	.83	.97	1.03									
Aug. 8	7:15 a. m.	9:20 a. m.	1.40	8:36 a. m.	9:07 a. m.	.02	.23	.55	.74	.99	1.17	1.33	1.37							
Dec. 26	7:13 p. m.	[2]D.N.a. m.	1.74	10:55 p. m.	11:30 p. m.	.25	.21	.33	.61	.79	.92	.99	1.05							
Dec. 30	D. N. p. m.	[2]D.N.a. m.	1.72	10:55 p. m.	11:41 p. m.	.08	.06	.19	.30	.43	.62	.73	.87	.94	1.11	1.14				
New Orleans, La.:[4]																				
Apr. 28	7:55 p. m.	8:50 p. m.	1.05	8:07 p. m.	8:27 p. m.	.02	.30	.57	.85	1.03										
Aug. 1	2:13 p. m.	6:35 p. m.	1.70	2:27 p. m.	3:39 p. m.	.01	.18	.45	.59	.68	.75	.86	.89	.98	1.17	1.22	1.37	1.48		
WEST GULF STATES.																				
Shreveport, La.:[4]																				
Mar. 29	6:10 a. m.	2:35 p. m.	2.76	7:35 a. m.	8:39 a. m.	.41	.06	.23	.32	.34	.39	.48	.52	.58	.83	1.05	1.13	1.56		
Apr. 4	12:05 p. m.	3:35 p. m.	1.58	1:35 p. m.	2:31 p. m.	.37	.05	.10	.25	.30	.34	.41	.46	.50	.56	.86	1.08			
Fort Smith, Ark.:[5]																				
Apr. 16	8:20 p. m.	D.N.p. m.	.80	9:16 p. m.	9:41 p. m.	.02	.17	.40	.50	.59	.70									
Oct. 31	4:55 p. m.	[2]1:30 a. m.	1.91	9:14 p. m.	9:31 p. m.	.97	.20	.35	.49	.53										
Little Rock, Ark.:[4]																				
May 20	9:55 a. m.	11:45 a. m.	1.29	9:58 a. m.	10:21 a. m.	.01	.25	.60	.97	1.05	1.10									
July 18	11:43 a. m.	1:55 p. m.	1.06	11:59 a. m.	12:33 p. m.	.01	.07	.23	.37	.44	.56	.72	.80	.94	1.01					
Corpus Christi, Tex.:[4]																				
Apr. 27	11:25 a. m.	2:45 p. m.	1.95	11:38 a. m.	12:17 p. m.	.01	.15	.42	.69	1.05	1.30	1.57	1.68	1.76						
May 14	12:10 a. m.	2:30 a. m.	2.31	12:34 a. m.	1:17 a. m.	.11	.12	.10	.61	.87	1.22	1.51	1.78	1.97	2.03					
May 24	4:15 p. m.	8:30 p. m.	2.23	4:54 p. m.	5:36 p. m.	.07	.09	.20	.60	1.00	1.47	1.72	1.85	1.95	2.00					
June 10	5:00 a. m.	12:25 p. m.	2.68	5:16 a. m.	6:59 a. m.	.08	.12	.42	.59	.61	.67	.82	.87	.99	1.30	1.19	1.58	1.84		
Sept. 16	[3]6:54 p. m.	[2]2:30 p. m.	7.87	2:34 a. m.	3:24 a. m.	.85	.07	.14	.32	.44	.47	.53	.61	.71	.75	.82				
				3:24 a. m.	4:14 a. m.		.85	.88	.89	1.03	1.18	1.47	1.78	2.12	2.26	2.33				
				4:14 a. m.	4:36 a. m.		2.38	2.43	2.47	2.51	2.61									
Sept. 19	6:14 a. m.	10:50 a. m.	1.61	7:37 a. m.	8:43 a. m.	.01	.09	.20	.44	.54	.61	.64	.68	.71	.83	.98	1.18	1.46		
Oct. 31	7:35 a. m.	11:30 a. m.	1.34	7:37 a. m.	8:12 a. m.	.01	.12	.31	.51	.57	.72	.86	1.12	1.15						
Nov. 6	9:00 p. m.	[2]5:00 a. m.	2.01	9:24 p. m.	10:04 p. m.	.06	.14	.37	.59	.80	1.02	1.12	1.21	1.38						
Dallas, Tex.:[4]																				
Apr. 3	11:13 a. m.	[2]6:32 a. m.	5.80	6:00 p. m.	7:07 p. m.	1.95	.19	.27	.25	.25	.27	.39	.57	.72	.82	.93	1.06			
				1:13 a. m.	2:03 a. m.	.15	.07	.21	.37	.62	.91	1.14	1.23	1.36	1.42	1.53				
Apr. 25	[3]10:45 p. m.	8:14 a. m.	4.89	2:03 a. m.	2:53 a. m.		1.96	2.06	2.29	2.51	2.66	2.75	2.85	3.02	3.23	3.34				
				2:53 a. m.	3:43 a. m.		3.46	3.55	3.61	3.65	3.69	3.81	3.84	3.88	3.99	4.11				
				3:43 a. m.	4:17 a. m.		4.19	4.24	4.32	4.38	4.45	4.51	4.56							
Fort Worth, Tex.:[4]																				
Apr. 24-25	10:19 p. m.	12:15 p. m.	8.48	11:39 p. m.	1:39 a. m.	.20	.06	.14	.31	.54	.70	.75	.89	1.28	1.61	1.89	2.43	3.07	3.62	4.07
May 8	7:04 a. m.	7:15 p. m.	3.40	11:22 a. m.	12:02 p. m.	.88	.10	.28	.47	.63	.98	1.12	1.18	1.23						
Galveston, Tex.:[4]																				
May 3	D.N.a. m.	D.N.a. m.	1.18	2:52 a. m.	3:17 a. m.	.01	.13	.44	.79	.92	1.01									
June 7	D.N.a. m.	D.N.a. m.	2.38	2:22 a. m.	3:43 a. m.	.01	.06	.19	.19	.21	.32	.44	.53	.61	.66	.75	1.14	2.32	2.37	
June 22	5:46 a. m.	7:27 a. m.	1.23	5:46 a. m.	6:33 a. m.	.00	.15	.18	.19	.25	.34	.43	.62	.96	1.19	1.22				
Sept. 16	D.N.a. m.	8:20 p. m.	5.11	7:58 a. m.	9:22 a. m.	1.15	.23	.33	.38	.42	.52	.63	.76	.83	.88	1.14	1.35	1.94	2.06	
Oct. 7	8:40 p. m.	9:50 p. m.	1.49	8:43 p. m.	9:13 p. m.	.01	.08	.22	.57	1.08	1.28	1.39								
Groesbeck, Tex.:[4]																				
Mar. 29	D.N.a. m.	8:55 a. m.	2.97	4:31 a. m.	5:10 a. m.	.82	.20	.54	.84	1.07	1.24	1.40	1.51	1.59						
Apr. 25	6:03 p. m.	9:15 p. m.	1.42	6:11 p. m.	6:54 p. m.	.02	.21	.44	.65	.79	.88	.95	1.00	1.10	1.14					
May 15	[3]11:45 p. m.	5:50 a. m.	2.28	1:10 a. m.	2:14 a. m.	.24	.16	.23	.25	.30	.41	.56	.75	.97	1.00	1.01	1.18	1.27		
June 5	8:25 p. m.	11:45 p. m.	1.75	9:33 p. m.	10:16 p. m.	.23	.06	.14	.34	.60	.80	1.08	1.26	1.39	1.43					
June 7	10:07 a. m.	12:32 p. m.	1.83	10:10 a. m.	11:02 a. m.	.02	.05	.12	.21	.39	.60	.82	1.01	1.07	1.15	1.31	1.35			
Houston, Tex.:[4]																				
Mar. 25	5:55 a. m.	6:40 p. m.	7.36	9:13 a. m.	10:03 a. m.	.45	.26	.50	.68	.83	.88	.90	1.09	1.24	1.34	1.45				
Do	5:55 a. m.	6:40 p. m.	7.36	11:37 a. m.	1:36 p. m.	2.58	.14	.21	.43	.59	1.03	1.42	1.72	1.85	1.90	1.94	2.04	2.82	3.18	3.45
Mar. 29	6:20 p. m.	D.N.p. m.	1.42	6:43 p. m.	7:24 p. m.	.09	.05	.21	.46	.64	.82	.87	.95	1.04	1.08					
Apr. 4	5:45 a. m.	11:50 a. m.	3.34	10:26 a. m.	11:26 a. m.	.56	.19	.54	1.06	1.60	1.85	2.06	2.23	2.36	2.51	2.57	2.68			
May 12	4:20 p. m.	6:00 p. m.	1.35	4:49 p. m.	5:30 p. m.	.01	.16	.46	.70	.90	1.07	1.13	1.19	1.27	1.31					
May 15	7:21 a. m.	8:05 a. m.	1.47	7:23 a. m.	7:50 a. m.	T.	.20	.65	1.01	1.28	1.43	1.47								
Nov. 13	[3]11:02 p. m.	5:40 a. m.	2.16	12:42 a. m.	1:07 a. m.	.38	.23	.51	.84	1.12	1.25									
Palestine, Tex.:[4]																				
Mar. 29	D.N.a. m.	2:50 p. m.	2.51	5:32 a. m.	6:05 a. m.	.28	.15	.35	.65	.99	1.14	1.27	1.32							
				3:31 a. m.	4:21 a. m.	.40	.11	.21	.34	.42	.47	.49	.51	.56	.65	.76				
July 3	D.N.a. m.	8:30 a. m.	3.17	4:21 a. m.	5:11 a. m.		.87	.94	1.01	1.18	1.35	1.46	1.53	1.58	1.61	1.65				
				5:11 a. m.	5:41 a. m.		1.72	1.84	1.99	2.08	2.17	2.26								
Nov. 6	[3]8:30 p. m.	6:30 a. m.	2.25	4:18 a. m.	4:50 a. m.	.73	.19	.27	.49	.82	1.16	1.36	1.40							
Port Arthur, Tex.:[4]																				
June 7	9:01 a. m.	4:50 p. m.	2.27	10:27 a. m.	11:05 a. m.	.33	.23	.56	.75	.88	1.08	1.30	1.40	1.45						
June 9	[3]1:15 p. m.	12:40 p. m.	2.67	10:15 a. m.	11:05 a. m.	1.38	.15	.30	.42	.57	.75	.82	.87	.97	1.04	1.11	1.18			
June 20	6:58 a. m.	10:26 a. m.	1.23	9:42 a. m.	10:14 a. m.	.04	.06	.16	.35	.60	.84	1.11	1.17							
Dec. 9	4:20 a. m.	6:10 a. m.	1.08	4:32 a. m.	5:19 a. m.	.06	.14	.20	.42	.60	.72	.75	.75	.80	.95	.99				
Dec. 11	11:38 a. m.	6:46 p. m.	3.72	5:05 p. m.	5:50 p. m.	.53	.08	.49	1.02	1.44	1.92	2.49	2.84	2.93	3.07					
San Antonio, Tex.:[4]																				
Mar. 29	D.N.a. m.	10:25 a. m.	2.16	7:03 a. m.	8:16 a. m.	.78	.08	.11	.23	.27	.36	.39	.47	.59	.74	.82	1.00	1.25		
Apr. 27	[3]9:20 p. m.	1:50 p. m.	2.92	5:41 a. m.	6:21 a. m.	1.47	.13	.44	.78	1.05	1.14	1.22	1.29	1.37						
May 2	9:20 p. m.	11:40 p. m.	1.72	10:25 p. m.	11:11 p. m.	.10	.11	.26	.41	.57	.73	.99	1.29	1.47	1.60					
Taylor, Tex.:[4]																				
May 1	6:50 a. m.	1:05 p. m.	2.38	7:47 a. m.	8:35 a. m.	.12	.24	.50	.70	.98	1.24	1.41	1.47	1.56	1.56	1.69				
June 2	6:30 p. m.	8:40 p. m.	1.74	6:36 p. m.	7:09 p. m.	.02	.13	.46	.69	.90	1.01	1.08								

[1] On following date.
[2] On previous date.
[3] Only storms at the rate of 1 inch or more in 1 hour or less.
[4] Only the more important storms recorded.

Accumulated amounts of precipitation for each 5 minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes or 0.80 in 1 hour during 1922 at all stations furnished with self-registering gauges—Continued.

Station and date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.													
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
OHIO VALLEY AND TENNESSEE.																				
Chattanooga, Tenn.:																				
Jan. 19	[4]11:48 p. m.	[2]1:04 a. m.	2.37	4:41 a. m.	5:21 a. m.	0.18	0.11	0.29	0.38	0.55	0.63	0.75	0.82	0.92						
Feb. 23	9:20 a. m.	10:06 a. m.	.40	9:31 a. m.	9:41 a. m.	.02	.23	.36												
Apr. 9	3:25 p. m.	4:35 p. m.	.32	4:00 p. m.	4:10 p. m.	.01	.20	.30												
June 1	5:26 a. m.	11:39 p. m.	2.20	6:03 p. m.	6:17 p. m.	1.23	.10	.25	.35											
June 12	12:55 p. m.	1:22 p. m.	.85	1:09 p. m.	1:15 p. m.	T.	.80	.84												
June 13	4:25 p. m.	5:40 p. m.	.90	4:37 p. m.	4:54 p. m.	T.	.12	.34	.63	.74										
July 2	11:07 a. m.	12:20 p. m.	.32	11:30 a. m.	11:40 a. m.	T.	.14	.31												
July 27	2:40 p. m.	3:35 p. m.	.55	2:56 p. m.	3:06 p. m.	.01	.30	.49												
Aug. 15	7:13 p. m.	8:38 p. m.	.78	8:06 p. m.	8:19 p. m.	.04	.21	.52	.74											
Aug. 17	3:37 p. m.	3:58 p. m.	.30	3:39 p. m.	3:45 p. m.	T.	.25	.29												
Aug. 19	8:46 a. m.	12:41 p. m.	.78	9:01 a. m.	9:21 a. m.	.05	.11	.23	.38	.52										
Aug. 25	8:08 p. m.	11:28 p. m.	1.36	8:21 p. m.	9:11 p. m.	.01	.08	.25	.45	.57	.74	.86	.95	1.00	1.06	1.11				
Sept. 20	7:14 p. m.	8:30 p. m.	.62	7:42 p. m.	8:02 p. m.	.04	.17	.35	.47	.54										
Oct. 23	5:57 a. m.	11:20 a. m.	1.19	6:42 a. m.	7:02 a. m.	.13	.09	.22	.40	.47										
Dec. 3	12:21 a. m.	6:42 a. m.	.94	4:41 a. m.	5:20 a. m.	.11	.10	.27	.38	.45	.47	.47	.54	.78						
Dec. 15	2:25 a. m.	7:16 a. m.	1.09	2:59 a. m.	3:17 a. m.	.01	.18	.30	.54	.64										
Knoxville, Tenn.:																				
June 13	10:05 p. m.	[2]D.N.a. m.	1.32	10:50 p. m.	11:35 p. m.	.08	.16	.37	.57	.73	.80	.84	.92	.96	1.02					
July 2	11:54 a. m.	12:30 p. m.	.42	12:03 p. m.	12:15 p. m.	.01	.25	.36	.39											
July 3	3:45 p. m.	[2]8:15 a. m.	1.11	3:53 p. m.	4:00 p. m.	.01	.28	.36												
July 15	4:56 p. m.	6:00 p. m.	.82	4:58 p. m.	5:16 p. m.	.01	.30	.63	.74	.78										
Aug. 8	3:05 p. m.	3:40 p. m.	.59	3:05 p. m.	3:31 p. m.	.00	.12	.27	.34	.44	.58	.59								
Aug. 14	2:02 p. m.	5:25 p. m.	1.38	2:22 p. m.	2:57 p. m.	.01	.21	.45	.76	.97	1.13	1.24	1.32							
Memphis, Tenn.:																				
Mar. 18	8:55 p. m.	[2]D.N.a. m.	1.84	11:18 p. m.	11:44 p. m.	.02	.36	.50	.56	.64	.78	.84								
Apr. 5	D.N.a. m.	D.N.a. m.	.72	4:03 a. m.	4:21 a. m.	.04	.38	.48	.59	.65										
June 18	10:53 a. m.	11:14 a. m.	.58	10:53 a. m.	11:04 a. m.	.00	.20	.55	.58											
Do	1:20 p. m.	2:05 p. m.	.77	1:26 p. m.	1:59 p. m.	.01	.26	.29	.35	.42	.42	.59	.76							
June 27	1:50 p. m.	3:30 p. m.	.93	2:19 p. m.	2:52 p. m.	.13	.12	.16	.25	.38	.49	.64	.71							
July 23	11:44 a. m.	3:35 p. m.	.88	11:54 a. m.	12:19 p. m.	.01	.05	.17	.30	.42	.57									
Dec. 26-27	9:20 p. m.	6:45 a. m.	2.83	11:53 p. m.	1:18 a. m.	.87	.22	.47	.51	.56	.59	.61	.68	.71	.73	.76	0.89	1.06	1.29	
Nashville, Tenn.:																				
Mar. 31	[3]9:10 p. m.	4:30 a. m.	1.58	2:38 a. m.	3:07 a. m.	.53	.13	.31	.48	.63	.76	.86								
Apr. 14	7:12 p. m.	8:40 p. m.	1.02	7:18 p. m.	7:44 p. m.	.01	.10	.45	.67	.90	.96	.99								
May 6	12:25 p. m.	1:40 p. m.	.71	1:08 p. m.	1:26 p. m.	.04	.08	.38	.53	.63										
June 7	11:00 a. m.	12:30 p. m.	1.08	11:19 a. m.	11:33 a. m.	.13	.18	.49	.63											
June 9	6:35 a. m.	8:30 a. m.	.57	7:08 a. m.	7:25 a. m.	.02	.08	.22	.35	.41										
Do	12:15 p. m.	1:25 p. m.	.61	12:33 p. m.	12:43 p. m.	.04	.28	.53												
Do	3:05 p. m.	5:35 p. m.	.77	3:28 p. m.	3:48 p. m.	.04	.16	.26	.39	.45										
June 18	5:40 p. m.	D.N.p. m.	1.55	5:45 p. m.	6:17 p. m.	.01	.08	.43	.79	.96	1.08	1.13	1.18							
July 2	9:00 p. m.	[2]D.N.a. m.	1.56	11:04 p. m.	11:25 p. m.	.77	.18	.41	.52	.61	.66									
July 3	10:20 a. m.	5:00 p. m.	.98	10:27 a. m.	10:49 a. m.	.02	.06	.12	.25	.44	.50									
July 7	7:10 p. m.	[3]3:00 a. m.	1.45	9:29 p. m.	9:39 p. m.	.32	.26	.33												
July 7-8	7:10 p. m.	3:00 a. m.	1.45	11:58 p. m.	12:12 a. m.	.76	.23	.36	.54	.64										
July 13	1:00 p. m.	1:28 p. m.	.60	1:05 p. m.	1:25 p. m.	.01	.08	.22	.47	.58										
Aug. 16	11:23 a. m.	12:25 p. m.	.81	11:26 a. m.	11:53 a. m.	.01	.10	.19	.30	.48	.70	.74								
Aug. 25	3:15 p. m.	4:45 p. m.	1.38	3:34 p. m.	3:48 p. m.	.02	.31	.51	.69											
Do	3:15 p. m.	4:45 p. m.	1.38	4:18 p. m.	4:42 p. m.	.74	.21	.41	.44	.53	.64									
Do	5:01 p. m.	7:05 p. m.	.76	6:09 p. m.	6:38 p. m.	.16	.15	.16	.27	.43	.54	.59								
Sept. 3	2:55 p. m.	4:00 p. m.	.71	3:16 p. m.	3:45 p. m.	.01	.06	.18	.26	.37	.55	.67								
Sept. 11	[3]10:05 p. m.	6:45 a. m.	1.35	1:08 a. m.	1:20 a. m.	.54	.37	.51	.54											
Sept. 20	4:00 p. m.	6:35 p. m.	.61	5:03 p. m.	5:17 p. m.	.04	.24	.43	.49											
Dec. 14	6:00 p. m.	[2]D. N. a. m.	1.79	8:25 p. m.	9:35 p. m.	.02	.13	.18	.22	.28	.37	.63	.72	.76	.87	1.00	1.25	1.56		
Lexington, Ky.:																				
Apr. 14	6:00 a. m.	9:30 a. m.	2.03	6:09 a. m.	6:18 a. m.	.01	.28	.46												
Do	6:00 a. m.	9:30 a. m.	2.03	7:12 a. m.	8:09 a. m.	.64	.17	.32	.39	.71	.87	.93	1.02	1.08	1.14	1.20	1.29			
June 11	D. N. p. m.	D. N. p. m.	.78	10:28 p. m.	10:52 p. m.	.04	.15	.22	.32	.54	.67									
Aug. 12	3:02 p. m.	5:10 p. m.	1.67	3:05 p. m.	4:01 p. m.	.01	.11	.22	.29	.40	.52	.67	.77	.83	.90	.94	1.03			
Sept. 3	D. N. a. m.	8:15 a. m.	5.45	2:28 a. m.	3:18 a. m.	.03	.15	.35	.43	.47	.69	.93	1.12	1.29	1.61	1.95				
				3:18 a. m.	4:08 a. m.		2.20	2.37	2.48	2.60	2.74	2.83	2.91	2.96	3.01	3.06				
				4:08 a. m.	4:58 a. m.		3.14	3.17	3.20	3.22	3.24	3.36	3.45	3.49	3.50	3.50				
				4:58 a. m.	5:33 a. m.		3.51	3.53	3.73	3.79	3.87	3.92	4.12							
Do	D. N. a. m.	8:15 a. m.	5.45	7:15 a. m.	7:45 a. m.	4.66	.22	.32	.35	.49	.66	.75								
Dec. 4	3:10 p. m.	[2]D.N. a. m.	1.58	6:44 p. m.	7:21 p. m.	.33	.11	.25	.38	.47	.54	.60	.66	.69						
Louisville, Ky.:																				
Apr. 14	D. N. a. m.	9:45 a. m.	2.45	5:16 a. m.	5:33 a. m.	.06	.08	.26	.37	.40										
Do	D. N. a. m.	9:45 a. m.	2.45	8:15 a. m.	8:30 a. m.	1.36	.16	.70	.92											
June 8	2:55 p. m.	6:10 p. m.	2.10	4:05 p. m.	5:33 p. m.	.01	.05	.10	.20	.58	1.11	1.30	1.41	1.59	1.65	1.71	1.92			
June 27	9:35 p. m.	11:15 p. m.	.66	9:57 p. m.	10:11 p. m.	.03	.16	.29	.41											
July 7	4:44 p. m.	D. N. p. m.	3.72	5:00 p. m.	5:53 p. m.	.01	.12	.31	.42	.53	.67	.82	1.02	1.22	1.38	1.48	1.54			
Do	4:44 p. m.	D. N. p. m.	3.72	6:45 p. m.	8:38 p. m.	1.77	.21	.40	.51	.52	.52	.52	.52	.61	.66	.68	.98	1.26	1.44	1.74
July 27	3:30 p. m.	4:15 p. m.	.55	3:50 p. m.	4:00 p. m.	.11	.25	.40												
Do	7:15 p. m.	8:30 p. m.	.52	7:25 p. m.	7:35 p. m.	.01	.30	.39												
Evansville, Ind.:																				
Mar. 14	1:50 p. m.	4:20 p. m.	.76	3:27 p. m.	3:49 p. m.	.28	.17	.24	.33	.43	.46									
May 6	7:56 a. m.	8:15 a. m.	.26	7:59 a. m.	8:04 a. m.	T.	.25													
June 13	5:45 a. m.	6:18 a. m.	.65	5:51 a. m.	6:06 a. m.	.03	.19	.55	.60											
July 2	12:18 p. m.	1:35 p. m.	1.21	1:04 p. m.	1:21 p. m.	.41	.10	.32	.73	.79										
July 3	[4]11:30 p. m.	9:00 a. m.	1.41	1:12 a. m.	2:00 a. m.	.04	.17	.25	.36	.47	.57	.67	.76	.87	.93	.97				
July 12	3:30 p. m.	6:00 p. m.	.98	3:43 p. m.	4:08 p. m.	.01	.13	.30	.43	.48	.62									
July 30	2:20 a. m.	8:30 a. m.	1.10	4:15 a. m.	4:48 a. m.	.09	.07	.12	.28	.39	.55	.71	.78							
Aug. 2	12:10 a. m.	D. N. a. m.	.45	1:46 a. m.	2:00 a. m.	.09	.06	.25	.35											
Aug. 23	6:53 p. m.	8:45 p. m.	1.37	7:21 p. m.	8:04 p. m.	.05	.13	.34	.50	.83	1.03	1.10	1.12	1.18	1.26					
Sept. 10	4:55 p. m.	6:30 p. m.	.53	4:59 p. m.	5:09 p. m.	.01	.21	.43												

[2] On following date.

[3] On previous date.

Accumulated amounts of precipitation for each 5 minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes or 0.80 in 1 hour during 1922 at all stations furnished with self-registering gauges—Continued.

Station and date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.													
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
OHIO VALLEY AND TENNESSEE—contd.																				
Indianapolis, Ind.:																				
Apr. 7	11:25 a. m.	12:12 p. m.	0.50	11:37 a. m.	11:57 a. m.	0.01	0.15	0.18	0.27	0.47										
Apr. 8	[3]11:00 p. m.	7:25 a. m.	1.35	3:33 a. m.	3:50 a. m.	.48	.12	.25	.33	.41										
Apr. 13	8:55 p. m.	[2]1:10 a. m.	.96	9:45 p. m.	10:03 p. m.	.05	.09	.30	.36	.39										
Apr. 17	8:25 a. m.	1:08 p. m.	1.10	9:04 a. m.	9:14 a. m.	.08	.22	.32												
Aug. 13	12:56 p. m.	1:38 p. m.	.53	1:06 p. m.	1:25 p. m.	.01	.13	.31	.40	.51										
Aug. 25	4:18 a. m.	4:50 a. m.	.34	4:20 a. m.	4:28 a. m.	.01	.18	.31												
Royal Center, Ind.:																				
Apr. 17	[3]10:15 p. m.	D. N. a. m.	1.96	1:13 a. m.	1:29 a. m.	.29	.07	.22	.42	.47										
Do	[3]10:15 p. m.	D. N. a. m.	1.96	3:00 a. m.	3:45 a. m.	1.16	.06	.13	.19	.23	0.28	0.41	0.54	0.64	0.74					
May 25-26	11:10 p. m.	D. N. a. m.	1.21	11:19 p. m.	12:08 a. m.	.03	.18	.29	.33	.35	.53	.77	.90	.95	1.06	1.14				
July 10	1:32 p. m.	2:40 p. m.	.51	1:45 p. m.	2:00 p. m.	.01	.21	.37	.46											
Aug. 6	3:00 p. m.	5:45 p. m.	.57	4:21 p. m.	4:34 p. m.	.11	.16	.26	.43											
Aug. 24	6:52 p. m.	7:40 p. m.	.53	6:54 p. m.	7:08 p. m.	.01	.23	.44	.50											
Oct. 6	1:47 p. m.	5:00 p. m.	1.09	1:53 p. m.	2:40 p. m.	.03	.08	.22	.41	.63	.68	.73	.75	.80	.91	.96				
Oct. 10	D. N. a. m.	2:05 p. m.	1.89	7:30 a. m.	7:57 a. m.	.32	.10	.19	.25	.35	.48	.53								
Terre Haute, Ind.:																				
Apr. 7 [1]	D. N. p. m.	[2]6:05 a. m.	1.46	11:38 p. m.	11:51 p. m.	.13	.11	.30	.41											
Apr. 10	8:00 p. m.	D. N. p. m.	.60	9:31 p. m.	9:41 p. m.	.14	.08	.32												
Do	11:40 a. m.	2:19 p. m.	.96	12:41 p. m.	1:09 p. m.	.28	.09	.22	.34	.37	.43	.54								
Apr. 13	8:45 p. m.	[2]D. N. a. m.	1.28	9:16 p. m.	9:32 p. m.	.02	.21	.51	.76	.83										
Apr. 17 [1]	[3]9:45 p. m.	5:10 a. m.	2.82	1:25 a. m.	2:39 a. m.	.55	.09	.22	.38	.72	.96	1.14	1.34	1.56	1.61	1.61	1.61	2.11		
Do	4:55 p. m.	5:55 p. m.	.39	5:32 p. m.	5:38 p. m.	.02	.25	.34												
June 13 [1]	4:00 a. m.	6:28 a. m.	1.87	4:07 a. m.	5:14 a. m.	.02	.35	.49	.51	.53	.70	.82	.83	.90	.99	1.02	1.28	1.64		
June 28 [1]	1:35 p. m.	2:57 p. m.	1.07	1:36 p. m.	2:07 p. m.	.01	.45	.73	.76	.88	.92	.99	1.04							
June 30 [1]	2:53 p. m.	4:07 p. m.	.71	2:53 p. m.	3:13 p. m.	.00	.15	.33	.40	.47										
Aug. 17 [1]	3:07 p. m.	4:28 p. m.	.93	3:10 p. m.	3:42 p. m.	.01	.13	.25	.35	.56	.63	.79	.83							
Cincinnati, Ohio:																				
Apr. 7	4:45 p. m.	5:13 p. m.	.33	5:00 p. m.	5:06 p. m.	.03	.28	.29												
Apr. 14	1:09 p. m.	2:45 p. m.	.69	1:09 p. m.	1:40 p. m.	.00	.22	.34	.36	.39	.51	.66	.67							
May 25	1:38 p. m.	3:16 p. m.	.65	2:01 p. m.	2:19 p. m.	.02	.19	.38	.51	.54										
June 20	7:56 a. m.	11:35 a. m.	.72	8:02 a. m.	8:22 a. m.	.02	.13	.29	.39	.45										
July 2	4:04 p. m.	7:30 p. m.	.58	4:41 p. m.	5:04 p. m.	.01	.13	.28	.36	.45	.49									
July 23	5:27 p. m.	6:30 p. m.	.84	5:36 p. m.	6:04 p. m.	.03	.14	.29	.34	.45	.76	.80								
Aug. 24	10:10 p. m.	11:00 p. m.	.96	10:20 p. m.	10:43 p. m.	.02	.37	.67	.81	.88	.93									
Aug. 25	2:04 p. m.	2:55 p. m.	1.54	2:08 p. m.	2:34 p. m.	.01	.22	.73	1.03	1.27	1.48	1.53								
Columbus, Ohio:																				
May 10	10:51 a. m.	11:55 a. m.	.39	11:08 a. m.	11:18 a. m.	.01	.13	.32												
May 24	8:44 p. m.	10:45 p. m.	.83	9:07 p. m.	9:45 p. m.	.01	.19	.26	.37	.46	.53	.61	.73	.77						
May 26	7:06 p. m.	10:25 p. m.	1.12	7:42 p. m.	8:15 p. m.	.10	.18	.32	.41	.51	.63	.77	.82							
June 27	3:28 p. m.	4:50 p. m.	1.06	3:36 p. m.	4:00 p. m.	.03	.21	.48	.70	.91	1.03									
June 28	11:47 a. m.	1:31 p. m.	.82	12:01 p. m.	12:22 p. m.	.01	.10	.31	.56	.70	.73									
Sept. 1	9:05 p. m.	10:25 p. m.	.64	9:08 p. m.	9:35 p. m.	.01	.11	.18	.34	.44	.52	.57								
Sept. 2	10:57 a. m.	12:20 p. m.	.73	11:03 a. m.	11:30 a. m.	.01	.22	.30	.45	.59	.62	.66								
Sept. 3	D. N. a. m.	7:11 a. m.	.87	12:49 a. m.	1:02 a. m.	.01	.21	.36	.41											
Dayton, Ohio:																				
Apr. 13 [1]	10:00 p. m.	[2]4:10 a. m.	1.68	11:08 p. m.	11:17 p. m.	.04	.06	.23	.47	.59	.69	.75	.80	.89						
May 25 [1]	1:58 p. m.	5:25 p. m.	1.12	1:58 p. m.	2:23 p. m.	.00	.16	.41	.66	.78	.83									
July 7	4:25 p. m.	8:12 p. m.	1.32	4:55 p. m.	5:35 p. m.	.01	.08	.33	.47	.53	.59	.65	.70	.78						
July 23	4:40 a. m.	7:15 a. m.	.62	6:30 a. m.	6:38 a. m.	.15	.24	.37												
July 31	1:45 p. m.	2:22 p. m.	.45	2:03 p. m.	2:21 p. m.	.01	.10	.26	.38	.44										
Sept. 3	[3]11:30 p. m.	8:30 a. m.	1.64	1:02 a. m.	1:20 a. m.	.17	.09	.22	.31	.40										
Elkins, W. Va.:																				
Apr. 14	D. N. a. m.	8:25 a. m.	1.25	3:37 a. m.	4:07 a. m.	.02	.20	.30	.33	.41	.46	.51								
May 12	2:50 p. m.	4:20 p. m.	.64	3:03 p. m.	3:17 p. m.	.02	.20	.35	.41											
June 5	3:40 p. m.	6:40 p. m.	.75	3:51 p. m.	4:20 p. m.	.03	.07	.16	.25	.34	.48	.69								
June 11	6:50 p. m.	D. N. p. m.	1.24	7:38 p. m.	8:07 p. m.	.29	.15	.40	.57	.80	.87	.91								
June 17	3:38 p. m.	4:30 p. m.	.88	3:48 p. m.	4:01 p. m.	.01	.29	.79	.84											
June 27	12:20 p. m.	2:30 p. m.	.84	12:32 p. m.	12:51 p. m.	.03	.13	.25	.36	.46										
Do	4:00 p. m.	5:00 p. m.	.61	4:12 p. m.	4:31 p. m.	.04	.10	.19	.39	.56										
July 2	4:25 p. m.	7:00 p. m.	.90	4:38 p. m.	4:56 p. m.	.01	.25	.55	.63	.69										
July 17	12:28 p. m.	12:50 p. m.	.29	12:30 p. m.	12:37 p. m.	.01	.26	.28												
July 24	[3]D. N. p. m.	D. N. a. m.	.35	12:31 a. m.	12:42 a. m.	.03	.15	.30	.31											
Parkersburg, W. Va.:																				
Apr. 14	12:12 a. m.	5:40 a. m.	1.40	4:22 a. m.	4:42 a. m.	.80	.10	.22	.41	.49										
May 12	11:44 a. m.	12:10 p. m.	.39	11:47 a. m.	12:01 p. m.	.01	.10	.28	.38											
June 11	6:47 p. m.	8:25 p. m.	1.15	7:34 p. m.	8:00 p. m.	.25	.20	.55	.68	.77	.82	.84								
June 27	5:26 p. m.	5:43 p. m.	.54	5:26 p. m.	5:41 p. m.	.00	.17	.44	.54											
June 30	7:08 p. m.	8:35 p. m.	.56	7:29 p. m.	7:39 p. m.	.01	.17	.43												
July 2	12:50 p. m.	1:06 p. m.	.47	12:56 p. m.	1:06 p. m.	.02	.19	.45												
Do	3:05 p. m.	11:18 p. m.	1.34	4:04 p. m.	4:52 p. m.	.04	.13	.18	.29	.38	.47	.56	.61	.68	.78	.83				
July 27	5:38 p. m.	6:23 p. m.	.43	6:03 p. m.	6:13 p. m.	.01	.20	.41												
Aug. 24	6:20 a. m.	3:50 p. m.	2.90	7:47 a. m.	8:23 a. m.	.24	.12	.30	.50	.80	.88	1.00	1.07	1.11						
Do	6:20 a. m.	3:50 p. m.	2.90	10:45 a. m.	11:21 a. m.	1.84	.06	.21	.40	.45	.51	.64	.79	.81						
Aug. 25	5:00 p. m.	7:18 p. m.	2.68	5:24 p. m.	6:54 p. m.	.18	.08	.28	.60	.71	.72	.81	.92	1.01	1.13	1.29	1.80	2.18	2.43	
Sept. 3	3:06 a. m.	9:30 a. m.	2.74	3:07 a. m.	4:36 a. m.	.01	.05	.12	.29	.67	.99	1.06	1.17	1.29	1.41	1.52	1.73	2.15	2.34	
Pittsburgh, Pa.:																				
Mar. 31	3:40 p. m.	5:20 p. m.	.60	4:25 p. m.	4:50 p. m.	.09	.10	.18	.23	.34	.49									
Do	6:55 p. m.	[2]1:30 a. m.	.78	7:14 p. m.	7:24 p. m.	.01	.25	.38												
Apr. 14	3:10 p. m.	11:45 p. m.	1.97	8:56 p. m.	9:40 p. m.	1.02	.11	.17	.21	.25	.28	.40	.59	.69	.75					
May 25	2:47 p. m.	6:00 p. m.	.80	2:49 p. m.	3:09 p. m.	.02	.14	.33	.41	.50										
June 11	3:35 p. m.	4:30 p. m.	.69	3:54 p. m.	4:19 p. m.	.07	.26	.38	1.44	1.50	1.56									
June 28	1:58 p. m.	5:00 p. m.	.90	2:16 p. m.	2:56 p. m.	.04	.11	.20	.27	.31	.37	.50	.60	.66						
July 2	12:38 p. m.	4:30 p. m.	1.29	1:00 p. m.	1:16 p. m.	.02	.20	.46	.58	.62										
Aug. 1	1:50 p. m.	2:45 p. m.	.56	1:54 p. m.	2:18 p. m.	.01	.20	.30	.40	.50	.54									
Aug. 3	12:12 p. m.	2:00 p. m.	.40	12:19 p. m.	12:25 p. m.	.02	.33	.34												

[1] Defective record. [2] On following date. [3] On previous date.

Accumulated amounts of precipitation for each 5 minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes or 0.80 in 1 hour during 1922 at all stations furnished with self-registering gauges—Continued.

Station and date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.													
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
LOWER LAKE REGION.																				
Buffalo, N. Y.:																				
June 11	D. N. a. m.	6:10 a. m.	1.04	12:58 a. m.	1:15 a. m.	0.01	0.07	0.12	0.36	0.42										
Do	D. N. a. m.	6:10 a. m.	1.04	5:14 a. m.	5:24 a. m.	.68	.20	.42												
Aug. 1	11:05 a. m.	2:50 p. m.	2.21	11:25 a. m.	11:38 a. m.	.12	.15	.39	.46											
Do	11:05 a. m.	2:50 p. m.	2.21	12:13 p. m.	12:52 p. m.	.60	.34	.56	.80	1.00	1.18	1.34	1.54	1.60						
Aug. 29	2:50 p. m.	3:40 p. m.	.80	3:00 p. m.	3:30 p. m.	.06	.13	.35	.36	.38	.57	.73								
Canton, N. Y.:																				
June 29	4:49 p. m.	7:32 p. m.	.56	5:04 p. m.	5:12 p. m.	.02	.28	.31												
Aug. 25	6:15 p. m.	7:40 p. m.	.70	6:51 p. m.	7:07 p. m.	.10	.15	.35	.52	.54										
Aug. 29	6:10 p. m.	9:00 p. m.	1.08	6:47 p. m.	7:13 p. m.	.24	.14	.41	.53	.65	.76	.78								
Oswego, N. Y.:																				
July 1	3:15 a. m.	9:40 a. m.	1.00	3:54 a. m.	4:21 a. m.	.23	.07	.25	.48	.56	.61	.68								
Rochester, N. Y.:																				
June 9	7:42 p. m.	8:15 p. m.	.57	7:54 p. m.	8:12 p. m.	.01	.08	.26	.50	.56										
June 11	[2]11:50 p. m.	6:40 a. m.	2.62	1:15 a. m.	1:45 a. m.	.05	.05	.10	.20	.36	.55	.79								
Do	[2]11:50 p. m.	6:40 a. m.	2.62	3:53 a. m.	5:06 a. m.	1.07	.11	.18	.21	.40	.50	.60	.66	.66	0.66	0.67	0.88	1.20		
June 17	[3]9:45 p. m.	1:30 a. m.	1.06	12:35 a. m.	12:55 a. m.	.32	.13	.25	.51	.64										
Do	3:50 a. m.	5:15 a. m.	.58	3:54 a. m.	4:06 a. m.	.01	.17	.34	.38											
Syracuse, N. Y.:																				
May 4	3:35 p. m.	D. N. p. m.	1.94	4:25 p. m.	5:32 p. m.	.20	.13	.19	.23	.28	.35	.39	.47	.55	.63	.75	1.00	1.15		
June 10	D. N. a. m.	7:36 a. m.	.71	2:21 a. m.	2:44 a. m.	.01	.14	.25	.32	.47	.54									
June 11	D. N. a. m.	7:35 a. m.	4.38	1:49 a. m.	2:00 a. m.	.01	.22	.31	.33											
Do	D. N. a. m.	7:35 a. m.	4.38	2:44 a. m.	3:06 a. m.	.37	.13	.28	.44	.56	.61									
Do	D. N. a. m.	7:35 a. m.	4.38	5:24 a. m.	6:45 a. m.	1.29	.19	.37	.67	.78	1.01	1.11	1.38	1.54	1.80	1.98	2.65	2.96	3.03	
				[3]3:10 p. m.	4:00 p. m.	.01	.47	.68	.84	.91	.95	.98	1.01	1.03	1.05	1.35				
June 17	2:45 p. m.	5:40 p. m.	4.57	4:00 p. m.	4:50 p. m.		1.52	1.65	1.93	1.95	2.02	2.17	2.44	2.58	2.86	3.14				
				4:50 p. m.	5:23 p. m.		3.59	3.84	3.99	4.04	4.20	4.42	4.54							
July 18	6:18 a. m.	8:20 a. m.	.45	6:49 a. m.	6:59 a. m.	.07	.20	.32												
Aug. 3	12:53 p. m.	3:35 p. m.	.95	1:16 p. m.	1:45 p. m.	.03	.17	.41	.58	.67	.74	.78								
Aug. 25	7:15 p. m.	8:30 p. m.	.56	7:48 p. m.	8:06 p. m.	.02	.17	.26	.45	.53										
Erie, Pa.:																				
June 9-10	11:48 p. m.	D. N. a. m.	1.03	11:55 p. m.	12:20 a. m.	.02	.23	.30	.35	.65	.79									
July 31	6:08 p. m.	7:10 p. m.	.53	6:14 p. m.	6:32 p. m.	.01	.16	.34	.45	.51										
Aug. 24	[3]D. N. p. m.	5:25 a. m.	.71	12:57 a. m.	1:15 a. m.	.21	.09	.24	.35	.40										
Aug. 25	9:22 a. m.	11:00 a. m.	.66	9:34 a. m.	9:54 a. m.	.02	.21	.30	.39	.44										
Cleveland, Ohio:																				
June 5	2:52 p. m.	3:45 p. m.	.79	3:18 p. m.	3:35 p. m.	.02	.24	.66	.74	.76										
June 11	12:04 p. m.	12:38 p. m.	.58	12:15 p. m.	12:30 p. m.	.01	.27	.37	.57											
July 31	8:31 p. m.	9:38 p. m.	.50	8:33 p. m.	8:53 p. m.	.01	.06	.32	.37	.46										
Sandusky, Ohio:																				
Apr. 10	5:05 p. m.	10:30 p. m.	1.06	6:01 p. m.	6:25 p. m.	.03	.18	.27	.32	.41	.51									
July 7	4:15 p. m.	D. N. p. m.	1.08	5:13 p. m.	5:51 p. m.	.16	.14	.25	.30	.43	.50	.58	.67	.72						
Aug. 7	4:40 p. m.	5:15 p. m.	1.12	4:45 p. m.	5:08 p. m.	.02	.21	.52	.80	1.01	1.10									
Toledo, Ohio:																				
May 15	2:55 p. m.	4:18 p. m.	.63	3:39 p. m.	3:50 p. m.	.02	.23	.51	.53											
July 1	10:47 p. m.	11:52 p. m.	.56	10:58 p. m.	11:13 p. m.	.01	.15	.41	.53											
Aug. 2	4:08 p. m.	5:17 p. m.	1.28	4:18 p. m.	5:00 p. m.	.01	.14	.24	.32	.34	.36	.68	1.05	1.23	1.26					
Do	10:58 p. m.	[2]D. N. a. m.	1.72	11:05 p. m.	11:55 p. m.	.01	.27	.30	.43	.57	.71	.87	.89	.94	.99	1.09				
Aug. 3	[2]10:58 p. m.	D. N. a. m.	1.72	12:55 a. m.	1:00 a. m.	1.33	.38													
Aug. 18	3:47 p. m.	4:08 p. m.	.57	3:53 p. m.	4:02 p. m.	.02	.40	.54												
Sept. 10	8:02 p. m.	[2]7:40 a. m.	2.36	9:48 p. m.	10:14 p. m.	.53	.20	.23	.28	.41	.46	.50								
Fort Wayne, Ind.:																				
June 9	8:50 p. m.	10:40 p. m.	.83	9:35 p. m.	10:03 p. m.	.12	.23	.42	.43	.55	.62	.70								
July 11	12:50 a. m.	6:00 a. m.	1.09	4:51 a. m.	5:40 a. m.	.29	.08	.21	.25	.37	.51	.58	.59	.62	.70	.79				
July 31	6:45 a. m.	7:30 a. m.	.64	6:59 a. m.	7:14 a. m.	.01	.24	.53	.60											
Oct. 7	[3]8:12 p. m.	5:50 p. m.	1.74	8:01 a. m.	8:25 a. m.	.25	.09	.21	.32	.49	.58									
Detroit, Mich.:																				
July 1	2:06 p. m.	3:00 p. m.	.96	2:26 p. m.	2:52 p. m.	.04	.08	.45	.59	.72	.84	.90								
Aug. 1	5:32 p. m.	7:28 p. m.	1.11	6:52 p. m.	7:01 p. m.	.66	.21	.34												
Aug. 2	2:18 p. m.	3:40 p. m.	1.46	2:49 p. m.	3:36 p. m.	.22	.11	.16	.24	.39	.59	.83	.98	1.13	1.19	1.23				
Sept. 2	3:20 a. m.	7:15 a. m.	1.16	6:48 a. m.	7:04 a. m.	.52	.11	.39	.61	.63										
UPPER LAKE REGION.																				
Alpena, Mich.:																				
June 16	5:30 p. m.	D. N. p. m.	1.07	8:40 p. m.	9:05 p. m.	.25	.09	.29	.45	.51	.56									
Aug. 17	11:56 a. m.	12:17 p. m.	.42	11:58 a. m.	12:13 p. m.	.01	.18	.28	.40											
Aug. 24	1:06 p. m.	5:00 p. m.	2.54	1:15 p. m.	2:00 p. m.	.03	.09	.17	.37	.61	.83	1.17	1.34	1.59	1.77					
Escanaba, Mich.:																				
June 16	[3]D. N. p. m.	6:00 a. m.	1.99	2:38 a. m.	3:02 a. m.	.99	.14	.20	.27	.41	.53									
July 6	12:18 p. m.	1:40 p. m.	.58	12:51 p. m.	1:01 p. m.	.02	.20	.50												
Do	2:03 p. m.	3:55 p. m.	.86	2:39 p. m.	2:55 p. m.	.01	.22	.43	.57	.64										
Do	4:20 p. m.	[3]8:05 a. m.	1.50	4:50 p. m.	4:57 p. m.	.04	.23	.42												
July 29	1:10 p. m.	4:00 p. m.	.77	1:13 p. m.	1:32 p. m.	.02	.06	.22	.33	.47										
Sept. 7	7:20 a. m.	9:20 a. m.	1.49	8:53 a. m.	9:14 a. m.	.66	.20	.35	.60	.79	.82									
Grand Haven, Mich.:																				
June 30	8:22 p. m.	D. N. p. m.	.97	9:28 p. m.	9:51 p. m.	.33	.14	.23	.34	.40	.49									
July 10	1:00 a. m.	D. N. a. m.	.58	2:13 a. m.	2:24 a. m.	.14	.14	.34	.36											
July 12	8:48 a. m.	12:30 p. m.	.55	10:04 a. m.	10:10 a. m.	.12	.26	.31												
Aug. 24	2:31 p. m.	3:20 p. m.	1.00	2:38 p. m.	3:05 p. m.	.01	.12	.33	.61	.84	.95	.98								
Aug. 25	1:56 a. m.	D. N. a. m.	.79	1:59 a. m.	2:15 a. m.	.01	.38	.53	.72	.74										
Aug. 28	11:00 p. m.	[3]12:15 a. m.	.73	11:04 p. m.	11:25 p. m.	.01	.33	.52	.58	.67	.69									

[1] Defective record. [2] On following date. [3] On previous date.

Accumulated amounts of precipitation for each 5 minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes or 0.80 in 1 hour during 1922 at all stations furnished with self-registering gauges—Continued.

Station and date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.													
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
UPPER LAKE REGION—contd.																				
Grand Rapids, Mich.:																				
Apr. 17	D. N. a. m.	D. N. a. m.	2.57	1:15 a. m.	1:25 a. m.	0.01	0.34	0.40												
Do	D. N. a. m.	D. N. a. m.	2.57	1:48 a. m.	3:02 a. m.	.52	.16	.45	0.57	0.76	0.90	1.14	1.20	1.23	1.26	1.27	1.48	1.68		
June 9	4:20 p. m.	5:10 p. m.	.38	4:28 p. m.	4:35 p. m.	.01	.20	.30												
June 10	5:30 a. m.	6:08 a. m.	.54	5:35 a. m.	5:42 a. m.	.01	.46	.53												
June 16	D. N. a. m.	5:20 a. m.	.49	3:37 a. m.	3:52 a. m.	.07	.11	.26	.39											
June 30	12:15 p. m.	12:37 p. m.	.64	12:21 p. m.	12:33 p. m.	.02	.38	.57	.62											
				5:18 a. m.	6:08 a. m.	.10	.06	.13	.24	.38	.56	.77	.92	.97	1.06	1.10				
				6:08 a. m.	6:58 a. m.		1.13	1.15	1.16	1.21	1.29	1.38	1.43	1.53	1.58	1.64				
July 11	D. N. a. m.	10:10 a. m.	2.72	6:58 a. m.	7:48 a. m.		1.69	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	2.25				
				7:48 a. m.	7:58 a. m.		(1)	2.38												
Aug. 2	1:33 p. m.	2:01 p. m.	.35	1:40 p. m.	1:47 p. m.	.01	.25	.28												
Aug. 24	2:43 p. m.	4:38 p. m.	.69	3:02 p. m.	3:27 p. m.	.01	.07	.17	.22	.35	.53									
Houghton, Mich.:																				
Sept. 5	10:05 a. m.	[2] 4:30 a. m.	3.13	10:10 a. m.	10:20 a. m.	.02	.20	.37												
Do	10:05 a. m.	[2] 4:30 a. m.	3.13	6:50 p. m.	7:22 p. m.	1.46	.07	.15	.28	.52	.76	.91	.94							
Lansing, Mich.:																				
Apr. 11	[3] 5:30 p. m.	D. N. a. m.	1.74	1:25 a. m.	1:49 a. m.	1.08	.12	.19	.26	.39	.46									
Apr. 17	5:30 p. m.	9:00 p. m.	.49	6:39 p. m.	6:51 p. m.	.13	.10	.31	.35											
July 10	3:25 p. m.	5:30 p. m.	.84	3:40 p. m.	3:53 p. m.	.05	.35	.55	.67											
Aug. 3	11:30 a. m.	1:15 p. m.	.75	11:33 a. m.	11:48 a. m.	.01	.07	.35	.61											
Ludington, Mich.:																				
June 10	D. N. a. m.	6:30 a. m.	1.27	4:28 a. m.	5:05 a. m.	.09	.14	.38	.42	.33	.43	.44	.91	1.05						
Do	12:15 p. m.	D. N. p. m.	1.56	6:28 p. m.	6:45 p. m.	.24	.16	.59	.75	.78										
Do	12:15 p. m.	D. N. p. m.	1.56	10:53 p. m.	11:02 p. m.	1.15	.10	.37												
July 9	7:42 p. m.	[2] 9:40 a. m.	1.13	7:54 p. m.	8:05 p. m.	.01	.25	.36	.39											
Aug. 24	1:16 p. m.	2:35 p. m.	.56	1:37 p. m.	1:55 p. m.	.01	.08	.19	.45	.52										
Marquette, Mich.:																				
Aug. 24	9:50 p. m.	11:35 p. m.	1.31	10:02 p. m.	10:42 p. m.	T.	.43	.63	.74	.77	.93	1.03	1.14	1.29						
Sept. 5	6:35 p. m.	[2] 7:02 a. m.	1.44	8:44 p. m.	9:03 p. m.	.06	.12	.35	.49	.56										
Sept. 8	[3] 10:20 p. m.	6:05 a. m.	.96	12:54 a. m.	1:12 a. m.	.19	.15	.32	.40	.47										
Port Huron, Mich.:																				
Aug. 25	6:12 a. m.	7:10 a. m.	.59	6:29 a. m.	6:42 a. m.	.10	.25	.38	.44											
Sept. 2	2:25 a. m.	8:30 a. m.	1.15	5:08 a. m.	5:21 a. m.	.48	.15	.37	.50											
Sept. 10	D. N. a. m.	7:10 a. m.	1.16	4:31 a. m.	5:00 a. m.	.21	.13	.30	.32	.35	.57	.72								
Saginaw, Mich.:																				
June 11	1:14 a. m.	D. N. a. m.	.41	1:21 a. m.	1:27 a. m.	.02	.29	.32												
June 16	9:21 p. m.	10:00 p. m.	.56	9:27 p. m.	9:37 p. m.	.01	.40	.52												
July 10	3:17 p. m.	5:20 p. m.	.78	3:52 p. m.	4:10 p. m.	.18	.36	.43	.50	.55										
July 31	1:15 p. m.	3:30 p. m.	.82	1:54 p. m.	2:19 p. m.	.03	.12	.27	.34	.42	.50									
Sept. 6	11:30 a. m.	11:50 a. m.	.56	11:30 a. m.	11:44 a. m.	.00	.19	.40	.56											
Sault Ste. Marie, Mich.: [7]																				
Chicago University, Ill.:																				
Apr. 10	3:08 p. m.	11:41 p. m.	2.48	10:53 p. m.	11:17 p. m.	1.71	.10	.28	.48	.65	.72									
May 25	12:41 p. m.	5:17 p. m.	1.98	1:26 p. m.	1:40 p. m.	.14	.12	.34	.53											
Do	12:41 p. m.	5:17 p. m.	1.98	2:09 p. m.	2:40 p. m.	.70	.16	.42	.73	.81	.93	1.00	1.02							
July 11	3:32 a. m.	7:21 a. m.	1.99	3:41 a. m.	4:05 a. m.	.02	.18	.38	.51	.61	.67									
Do	3:32 a. m.	7:21 a. m.	1.99	4:43 a. m.	5:35 a. m.	.88	.10	.20	.31	.39	.45	.51	.59	.64	.71	.85	.94			
Aug. 24	3:59 p. m.	4:42 p. m.	.54	4:13 p. m.	4:28 p. m.	.01	.17	.39	.52											
Sept. 10	1:52 a. m.	3:56 a. m.	1.34	2:39 a. m.	2:53 a. m.	.29	.07	.38	.79											
Green Bay, Wis.:																				
June 10	3:05 p. m.	6:15 p. m.	1.35	3:23 p. m.	3:55 p. m.	.02	.05	.16	.36	.44	.52	.70	.73							
July 9	5:10 p. m.	8:45 p. m.	.95	5:36 p. m.	5:51 p. m.	.03	.22	.48	.52											
July 16	3:03 p. m.	3:32 p. m.	.68	3:07 p. m.	3:22 p. m.	.01	.09	.39	.67											
July 30	8:05 p. m.	9:30 p. m.	.51	8:07 p. m.	8:18 p. m.	.01	.20	.35	.38											
Aug. 24	11:05 a. m.	11:55 a. m.	.96	11:11 a. m.	11:31 a. m.	.01	.26	.77	.88	.92										
				9:13 p. m.	10:03 p. m.	.20	.08	.21	.32	.38	.43	.45	.47	.49	.60	.67				
Aug. 31	8:20 p. m.	[2] D. N. a. m.	2.48	10:03 p. m.	10:53 p. m.		.73	.77	.87	.91	1.01	1.08	1.15	1.21	1.28	1.31				
				10:53 p. m.	11:25 p. m.		1.38	1.43	1.48	1.56	1.63	1.74	1.78							
Sept. 7	4:35 p. m.	5:30 p. m.	.38	4:40 p. m.	4:51 p. m.	.01	.19	.31	.33											
Milwaukee, Wis.:																				
Apr. 16	8:45 p. m.	[2] D. N. a. m.	.70	11:29 p. m.	11:42 p. m.	.24	.18	.28	.36											
June 13	6:47 a. m.	10:10 a. m.	1.00	7:29 a. m.	7:46 a. m.	.05	.12	.14	.36	.41										
Aug. 6	5:45 p. m.	6:30 p. m.	.76	6:10 p. m.	6:23 p. m.	.02	.19	.60	.72											
Nov. 1	12:55 p. m.	7:30 p. m.	.74	3:20 p. m.	3:35 p. m.	.26	.11	.34	.42											
Duluth, Minn.:																				
June 7	6:42 p. m.	7:40 p. m.	1.00	6:42 p. m.	7:08 p. m.	.00	.29	.60	.68	.86	.93	.94								
July 9	2:50 a. m.	5:10 a. m.	.80	3:11 a. m.	3:32 a. m.	.03	.13	.30	.58	.70	.73									
Aug. 17	[3] 11:15 p. m.	3:00 a. m.	.49	1:17 a. m.	1:30 a. m.	.02	.14	.35	.39											
NORTH DAKOTA.																				
Moorhead, Minn.:																				
May 10	9:10 p. m.	D. N. p. m.	.87	9:23 p. m.	9:44 p. m.	.06	.19	.50	.69	.75	.78									
May 22	2:15 p. m.	3:10 p. m.	.41	2:52 p. m.	2:58 p. m.	.08	.32	.33												
June 16	D. N. a. m.	7:45 a. m.	1.00	4:53 a. m.	5:34 a. m.	.01	.11	.26	.34	.39	.44	.58	.63	.66						
July 4	8:40 p. m.	[3] D. N. a. m.	.91	10:36 p. m.	11:31 p. m.	.01	.07	.24	.30	.32	.35	.36	.43	.51	.58	.73	.90			
Bismarck, N. Dak.:																				
May 22	2:03 p. m.	3:00 p. m.	.58	2:08 p. m.	2:18 p. m.	.01	.25	.55												
June 25	4:55 p. m.	5:32 p. m.	.39	5:03 p. m.	5:11 p. m.	.01	.23	.38												
July 25	11:05 p. m.	[2] 9:45 a. m.	.51	11:09 p. m.	11:26 p. m.	.02	.17	.27	.35	.39										
July 28	6:50 p. m.	8:10 p. m.	.81	6:53 p. m.	7:30 p. m.	.01	.28	.40	.49	.52	.59	.67	.73	.77						
July 29	1:15 p. m.	2:00 p. m.	.58	1:32 p. m.	1:47 p. m.	.01	.20	.35	.52											
Sept. 7	[3] D. N. p. m.	D. N. a. m.	.72	12:14 a. m.	12:29 a. m.	.01	.09	.42	.59											

[1] Defective record. [2] On following date. [3] On previous date. [7] No excessive precipitation.

Accumulated amounts of precipitation for each 5 minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes or 0.80 in 1 hour during 1922 at all stations furnished with self-registering gauges—Continued.

Station and date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.												
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
NORTH DAKOTA—continued.																				
Devils Lake, N. Dak.:																				
Sept. 7	D. N. a. m.	8:10 a. m.	1.41	12:50 a. m.	1:01 a. m.	0.03	0.21	0.38	0.40											
Do	D. N. a. m.	8:10 a. m.	1.41	2:32 a. m.	2:50 a. m.	.48	.06	.47	.73	0.79										
Ellendale, N. Dak.:																				
May 9	[3]D. N. p. m.	D. N. a. m.	.53	12:40 a. m.	12:51 a. m.	.03	.19	.35	.39											
June 15	5:18 p. m.	5:50 p. m.	.43	5:20 p. m.	5:28 p. m.	.01	.28	.39												
July 8	9:38 p. m.	D. N. p. m.	.63	10:45 p. m.	10:59 p. m.	.11	.25	.42	.46											
July 15	12:37 a. m.	D. N. a. m.	.53	1:17 a. m.	1:31 a. m.	.10	.15	.32	.40											
Williston, N. Dak.:																				
June 20	[3]11:15 p. m.	1:30 a. m.	1.42	12:09 a. m.	12:48 a. m.	.24	.17	.24	.32	.68	0.83	0.91	1.05	1.12						
June 22	9:42 p. m.	[5]5:58 a. m.	1.60	11:04 p. m.	11:52 p. m.	.04	.11	.16	.17	.26	.48	.64	.87	1.31	1.44	1.48				
July 8	2:44 p. m.	8:10 p. m.	.63	3:01 p. m.	3:29 p. m.	.04	.05	.10	.16	.32	.39	.50								
July 20	9:22 p. m.	10:15 p. m.	.69	9:48 p. m.	9:58 p. m.	.10	.07	.57												
July 28	9:08 a. m.	9:47 a. m.	.51	9:26 a. m.	9:40 a. m.	.04	.17	.30	.46											
Aug. 15	8:35 p. m.	10:30 p. m.	.41	9:19 p. m.	9:30 p. m.	.01	.26	.33	.35											
UPPER MISSISSIPPI VALLEY.																				
Minneapolis, Minn.:																				
June 9	11:15 p. m.	[2]D. N. a. m.	.79	11:21 p. m.	11:45 p. m.	.02	.08	.25	.48	.66	.73									
June 10	1:15 a. m.	3:00 a. m.	.69	1:54 a. m.	2:09 a. m.	.10	.28	.37	.47											
June 15	D. N. p. m.	D. N. p. m.	.49	10:04 p. m.	10:22 p. m.	.04	.05	.17	.33	.44										
June 26	4:29 p. m.	6:18 p. m.	.95	5:14 p. m.	6:13 p. m.	.06	.07	.13	.22	.25	.33	.51	.62	.63	.70	.75	0.88			
June 30	4:37 p. m.	5:28 p. m.	.41	4:59 p. m.	5:04 p. m.	.01	.25													
July 15	5:12 a. m.	7:15 a. m.	.44	6:55 a. m.	7:05 a. m.	.03	.14	.38												
St. Paul, Minn.:																				
June 9	11:15 p. m.	12:00 mid.	.54	11:34 p. m.	11:53 p. m.	.05	.15	.36	.43	.48										
June 15	5:16 p. m.	7:20 p. m.	.48	5:18 p. m.	5:25 p. m.	.01	.25	.31												
Do	10:05 p. m.	11:05 p. m.	.37	10:05 p. m.	10:19 p. m.	.00	.22	.31	.35											
June 30	12:20 a. m.	1:15 a. m.	.42	12:48 a. m.	1:01 a. m.	.03	.10	.30	.37											
July 15	5:55 a. m.	7:21 a. m.	.74	6:15 a. m.	6:27 a. m.	.10	.28	.41	.45											
Do	1:32 p. m.	2:07 p. m.	.38	1:45 p. m.	1:53 p. m.	.02	.13	.34												
La Crosse, Wis.:																				
Apr. 6	9:45 p. m.	D. N. p. m.	.69	10:32 p. m.	10:46 p. m.	.01	.25	.34	.39											
May 24	[3]9:30 p. m.	D. N. a. m.	1.68	2:52 a. m.	3:34 a. m.	.61	.08	.15	.25	.38	.51	.64	.77	.91	.96					
June 10	8:35 a. m.	9:50 a. m.	.76	8:52 a. m.	9:04 a. m.	.04	.20	.49	.68											
Aug. 5[1]	1:55 p. m.	3:55 p. m.	.83	2:18 p. m.	2:42 p. m.	.01	.24	.36	.48	.66	.76									
Do.[1]	4:54 p. m.	D. N. p. m.	.86	6:33 p. m.	6:58 p. m.	.08	.11	.19	.33	.56	.68									
Aug. 6[1]	D. N. a. m.	7:15 a. m.	.88	6:35 a. m.	7:00 a. m.	.37	.08	.19	.23	.33	.47									
Madison, Wis.:																				
June 8	6:19 p. m.	7:10 p. m.	.83	6:38 p. m.	6:53 p. m.	.03	.36	.68	.77											
June 9	[3]10:55 p. m.	D. N. a. m.	1.48	1:30 a. m.	2:20 a. m.	.09	.16	.20	.22	.32	.49	.53	.57	.66	.83	1.02				
July 9	8:25 p. m.	[2]6:38 a. m.	2.77	8:37 p. m.	9:57 p. m.	.03	.06	.21	.52	.81	1.00	1.06	1.10	1.13	1.15	1.20	1.64	2.33		
Aug. 1	2:05 p. m.	2:35 p. m.	.36	2:10 p. m.	2:25 p. m.	.01	.05	.15	.35											
Wausau, Wis.:																				
June 10	[2]D. N. p. m.	D. N. a. m.	1.23	1:20 a. m.	1:35 a. m.	.13	.30	.60	.72											
Aug. 31	6:16 p. m.	D. N. p. m.	.51	8:10 p. m.	8:19 p. m.	.10	.28	.37												
Charles City, Iowa:																				
July 9	4:45 a. m.	7:15 a. m.	1.39	4:48 a. m.	5:41 a. m.	.02	.09	.24	.50	.66	.75	.82	.89	1.00	1.10	1.19	1.27			
July 15	8:00 a. m.	9:10 a. m.	.60	8:10 a. m.	8:24 a. m.	.02	.33	.47	.53											
Do	7:12 p. m.	10:00 p. m.	1.70	7:50 p. m.	8:41 p. m.	.08	.06	.16	.34	.57	.70	.78	.90	1.03	1.19	1.31	1.41			
Oct. 6	3:18 p. m.	9:45 p. m.	1.39	6:55 p. m.	7:13 p. m.	.77	.08	.25	.41	.49										
Davenport, Iowa:																				
May 11	7:38 p. m.	8:15 p. m.	.35	7:38 p. m.	7:51 p. m.	.00	.14	.29	.35											
May 14	11:07 a. m.	1:30 p. m.	.66	11:18 a. m.	11:38 a. m.	.04	.16	.22	.39	.53										
May 26	5:15 p. m.	9:00 p. m.	.84	5:24 p. m.	5:49 p. m.	.02	.23	.43	.55	.64	.70									
July 9	4:30 p. m.	5:45 p. m.	.75	4:41 p. m.	5:10 p. m.	.03	.20	.36	.37	.62	.66	.72								
July 12	12:30 a. m.	4:30 a. m.	1.39	12:38 a. m.	1:07 a. m.	.02	.10	.20	.37	.52	.64	.71								
Des Moines, Iowa:																				
May 16	2:00 p. m.	2:27 p. m.	.42	2:02 p. m.	2:12 p. m.	.01	.32	.40												
July 16	7:11 p. m.	9:05 p. m.	2.12	7:16 p. m.	8:47 p. m.	.01	.38	.52	.61	.72	.90	.95	1.00	1.22	1.29	1.34	1.60	1.95	2.11	
Aug. 22	4:30 p. m.	7:00 p. m.	2.46	4:47 p. m.	6:12 p. m.	.06	.18	.33	.47	.53	.59	.73	.83	.94	1.05	1.18	1.56	2.27	2.39	
Aug. 26	4:02 p. m.	5:10 p. m.	.51	4:05 p. m.	4:15 p. m.	.01	.36	.45												
Sept. 8	5:02 p. m.	6:20 p. m.	.50	5:04 p. m.	5:15 p. m.	.01	.27	.39	.44											
Oct. 6	5:27 p. m.	[2]D. N. a. m.	1.29	5:35 p. m.	6:04 p. m.	.04	.13	.26	.49	.74	.87	.91								
Dubuque, Iowa:																				
May 24	4:35 p. m.	6:50 p. m.	.58	5:49 p. m.	6:14 p. m.	.04	.10	.32	.35	.46	.51									
July 16–17	11:45 p. m.	D. N. a. m.	.95	11:53 p. m.	12:31 a. m.	.01	.05	.15	.39	.62	.66	.69	.82	.89						
Aug. 1	5:38 p. m.	6:02 p. m.	.51	5:48 p. m.	6:00 p. m.	.02	.28	.47	.49											
Aug. 6	8:48 a. m.	10:01 a. m.	.84	9:32 a. m.	9:49 a. m.	.11	.14	.46	.69	.72										
Sept. 8	7:25 p. m.	9:35 p. m.	.62	8:40 p. m.	8:57 p. m.	.21	.11	.28	.37	.40										
Do	10:10 p. m.	[2]D. N. a. m.	.92	10:15 p. m.	10:30 p. m.	.01	.21	.47	.62											
Keokuk, Iowa:																				
June 13	D. N. a. m.	D. N. a. m.	.68	1:58 a. m.	2:10 a. m.	.01	.26	.54	.62											
July 10	D. N. a. m.	10:24 a. m.	.76	2:45 a. m.	3:05 a. m.	.01	.23	.28	.38	.47										
July 11	[3]8:12 p. m.	D. N. a. m.	2.30	1:58 a. m.	3:10 a. m.	.69	.13	.25	.30	.47	.56	.67	.77	.91	1.03	1.12	1.35	1.55		
July 12	[3]11:11 p. m.	D. N. a. m.	2.32	1:14 a. m.	1:59 a. m.	.19	.24	.60	.75	.91	1.15	1.41	1.62	1.77	1.86					
Aug. 18	7:38 a. m.	10:22 a. m.	2.08	7:41 a. m.	8:46 a. m.	.01	.08	.43	.62	.83	.98	1.10	1.16	1.26	1.35	1.45	1.81	2.01		
Aug. 22	10:07 p. m.	[2]D. N. a. m.	.51	10:15 p. m.	10:35 p. m.	.01	.20	.31	.37	.42										
Sept. 9	9:10 p. m.	[2]D. N. a. m.	1.46	9:34 p. m.	10:12 p. m.	.05	.12	.17	.22	.28	.41	.56	.65	.72						
Cairo, Ill.:																				
Mar. 14	3:05 p. m.	[2]D. N. a. m.	1.57	3:13 p. m.	3:33 p. m.	.01	.15	.32	.48	.63										
Apr. 14	2:57 p. m.	5:40 p. m.	.68	3:42 p. m.	3:53 p. m.	.10	.14	.42	.48											
July 7	6:14 p. m.	9:40 p. m.	1.21	6:48 p. m.	7:23 p. m.	.03	.20	.27	.50	.56	.70	.87	1.04							
July 12	9:50 a. m.	12:08 p. m.	1.90	9:53 a. m.	11:11 a. m.	.01	.06	.10	.17	.43	.55	.74	.86	.99	1.10	1.21	1.34	1.88		

[1] Defective record. [2] On following date. [3] On previous date.

Accumulated amounts of precipitation for each 5 minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes or 0.80 in 1 hour during 1922 at all stations furnished with self-registering gauges—Continued.

Station and date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.													
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
UPPER MISSISSIPPI VALLEY—con.																				
Peoria, Ill.:																				
May 26	10:55 a. m.	4:37 p. m.	1.71	12:24 p. m.	12:34 p. m.	0.02	0.14	0.30												
Do	10:55 a. m.	4:37 p. m.	1.71	2:00 p. m.	2:45 p. m.	.40	.16	.38	0.56	0.67	0.74	0.83	0.91	1.11	1.20					
Sept. 10	[2]11:12 p. m.	3:15 a. m.	1.64	12:42 a. m.	1:05 a. m.	.55	.20	.50	.75	.88	.93									
Oct. 6	5:50 a. m.	11:58 a. m.	1.23	9:54 a. m.	10:12 a. m.	.61	.19	.45	.48	.55										
Springfield, Ill.:																				
Apr. 10	12:10 p. m.	8:02 p. m.	1.16	1:02 p. m.	1:23 p. m.	.07	.17	.34	.57	.72	.78									
May 24	9:21 p. m.	D. N. p. m.	1.00	9:33 p. m.	10:10 p. m.	.03	.11	.36	.54	.54	.54	.62	.81	.84						
May 26	11:18 a. m.	11:50 a. m.	.50	11:25 a. m.	11:42 a. m.	.02	.15	.28	.43	.48										
June 13	3:14 a. m.	D. N. a. m.	.59	3:26 a. m.	3:34 a. m.	.01	.33	.41												
July 10	10:55 a. m.	11:22 a. m.	.33	11:09 a. m.	11:19 a. m.	.01	.21	.31												
Hannibal, Mo.:																				
Apr. 10	10:03 a. m.	5:18 p. m.	.92	2:02 p. m.	2:06 p. m.	.37	.27													
May 11	D. N. p. m.	D. N. p. m.	.32	11:12 p. m.	11:19 p. m.	.01	.23	.31												
July 10	8:52 a. m.	11:10 a. m.	.54	9:00 a. m.	9:15 a. m.	.01	.26	.38	.45											
July 29	7:53 p. m.	D. N. p. m.	.84	9:18 p. m.	9:40 p. m.	.07	.05	.14	.31	.52	.58									
Aug. 22	[2]11:05 p. m.	4:50 a. m.	.55	2:54 a. m.	3:02 a. m.	.15	.30	.38												
Sept. 9	9:35 p. m.	[2]1:42 p. m.	2.13	10:14 p. m.	10:49 p. m.	.16	.19	.38	.50	.66	.79	.87	.92							
St. Louis, Mo.:																				
Apr. 13	5:11 p. m.	6:41 p. m.	.45	5:46 p. m.	5:54 p. m.	.04	.20	.32												
Apr. 16-17	6:58 p. m.	D. N. a. m.	1.90	10:53 p. m.	12:01 a. m.	.21	.14	.28	.32	.38	.42	.51	.53	.55	.72	0.82	1.01	1.24		
July 11	4:15 a. m.	6:50 a. m.	.92	4:24 a. m.	5:16 a. m.	.01	.09	.12	.25	.28	.30	.32	.42	.57	.72	.83	.85			
July 29	10:47 p. m.	[2]5:58 a. m.	.66	10:52 p. m.	11:05 p. m.	.01	.17	.33	.37											
Aug. 15	1:45 p. m.	3:40 p. m.	0.82	1:55 p. m.	2:25 p. m.	.01	.15	.34	.51	.64	.69	.74								
Sept. 10	D. N. a. m.	5:15 p. m.	2.01	6:25 a. m.	7:17 a. m.	.25	.08	.12	.16	.24	.25	.29	.42	.50	.67	.73	.81			
Nov. 1	7:02 a. m.	10:20 a. m.	.39	8:57 a. m.	9:05 a. m.	.02	.14	.34												
MISSOURI VALLEY.																				
Columbia, Mo.:																				
Mar. 13-14	7:12 p. m.	D. N. a. m.	3.10	11:45 p. m.	12:30 a. m.	1.15	.07	.19	.32	.45	.49	.53	.56	.68	.77					
Apr. 14	D. N. a. m.	11:55 a. m.	1.65	4:49 a. m.	4:59 a. m.	.01	.14	.32												
May 6	D. N. a. m.	5:45 a. m.	1.13	3:11 a. m.	3:54 a. m.	.03	.15	.18	.21	.35	.57	.73	.77	.85	.90					
June 25	9:25 p. m.	D. N. p. m.	.67	9:25 p. m.	9:52 p. m.	.00	.17	.30	.42	.46	.63	.67								
June 30	5:26 p. m.	6:30 p. m.	.54	5:31 p. m.	5:48 p. m.	.01	.15	.35	.47	.51										
July 23	7:41 a. m.	10:10 a. m.	.59	7:41 a. m.	8:06 a. m.	.00	.23	.35	.41	.48	.54									
July 30	D. N. a. m.	D. N. a. m.	.98	1:57 a. m.	2:26 a. m.	.04	.23	.51	.66	.79	.84	.90								
Sept. 9	9:37 p. m.	[2]12:25 p. m.	2.84	9:55 p. m.	11:05 p. m.	.08	.12	.34	.48	.54	.67	.81	.90	1.00	1.04	1.10	1.19	1.40		
Kansas City, Mo.:																				
Feb. 22	1:45 p. m.	7:10 p. m.	.96	2:07 p. m.	2:29 p. m.	.03	.08	.13	.23	.39	.45									
May 24	11:30 a. m.	1:08 p. m.	.59	11:43 a. m.	11:57 a. m.	.02	.27	.37	.48											
July 10	12:40 a. m.	8:25 a. m.	1.47	5:42 a. m.	5:57 a. m.	.61	.24	.41	.54											
Do	7:35 p. m.	[2]D. N. a. m.	1.54	11:19 p. m.	11:30 p. m.	.43	.42	.93	.98											
July 11	8:50 p. m.	[2]D. N. a. m.	.84	10:02 p. m.	10:25 p. m.	.02	.10	.25	.33	.48	.58									
Aug. 6	4:07 p. m.	4:26 p. m.	.33	4:09 p. m.	4:19 p. m.	.01	.15	.32												
Nov. 12	[3]9:20 p. m.	6.45 a. m.	.86	2:23 a. m.	2:32 a. m.	.22	.24	.33												
St. Joseph, Mo.:																				
July 11	7:45 p. m.	D. N. p. m.	1.83	8:34 p. m.	9:53 p. m.	.14	.08	.40	.74	.95	1.00	1.07	1.12	1.17	1.25	1.28	1.32	1.61		
Sept. 8	8:02 p. m.	[3]2:00 a. m.	.67	8:07 p. m.	8:20 p. m.	.01	.25	.30	.35											
Sept. 18	9:43 a. m.	10:50 a. m.	.51	9:50 a. m.	9:58 a. m.	.04	.31	.44												
Oct. 6	5:43 p. m.	7:50 p. m.	.85	5:43 p. m.	6:04 p. m.	.00	.21	.40	.62	.74	.75									
Nov. 11	3:15 p. m.	[3]4:00 a. m.	2.60	7:49 p. m.	8:12 p. m.	.62	.20	.27	.37	.47	.51									
Springfield, Mo.:																				
Apr. 14	7:27 a. m.	10:51 a. m.	.68	7:45 a. m.	7:50 a. m.	.01	.25													
Apr. 16	4:53 p. m.	7:10 p. m.	1.54	5:08 p. m.	5:35 p. m.	.01	.58	.78	.97	1.29	1.47	1.50								
July 12	D. N. a. m.	10:01 a. m.	1.61	3:41 a. m.	4:47 a. m.	.06	.17	.22	.28	.31	.34	.42	.57	.70	.74	.76	.87	.98		
July 24-25	D. N. p. m.	D. N. a. m.	2.12	11:53 p. m.	12:06 a. m.	.06	.27	.52	.61											
July 25	[2]D. N. p. m.	D. N. a. m.	2.12	1:51 a. m.	2:31 a. m.	.73	.18	.25	.55	.67	.80	1.06	1.24	1.36						
Aug. 1	3:12 a. m.	8:04 a. m.	2.11	3:17 a. m.	4:18 a. m.	.02	.05	.12	.21	.33	.43	.47	.54	.59	.69	.80	1.00	1.04		
Do	3:12 a. m.	8:04 a. m.	2.11	5:10 a. m.	5:30 a. m.	1.11	.24	.39	.55	.64										
Nov. 1	D. N. a. m.	D. N. a. m.	.66	2:16 a. m.	2:40 a. m.	.01	.18	.26	.27	.50	.58									
Iola, Kans.:																				
Apr. 7	12:05 a. m.	12:50 a. m.	1.14	12:12 a. m.	12:47 a. m.	.02	.09	.15	.27	.57	.80	1.01	1.12							
Apr. 14	3:10 a. m.	5:50 a. m.	.90	4:42 a. m.	4:51 a. m.	.35	.14	.42												
May 3	1:40 p. m.	3:45 p. m.	1.02	1:43 p. m.	2:10 p. m.	.01	.11	.32	.52	.61	.67	.71								
May 8	12:40 a. m.	D. N. a. m.	.46	12:45 a. m.	12:58 a. m.	.01	.05	.21	.45											
June 25	3:50 p. m.	5:30 p. m.	1.74	3:52 p. m.	5:19 p. m.	.01	.05	.10	.16	.21	.33	.46	.55	.75	.91	1.00	1.24	1.55	1.73	
June 26	3:10 a. m.	5:35 a. m.	1.52	3:29 a. m.	4:06 a. m.	.08	.13	.38	.67	.79	.92	1.07	1.22	1.31						
July 6	10:00 p. m.	D. N. p. m.	.57	10:34 p. m.	10:50 p. m.	.03	.13	.34	.48	.50										
July 11	11:05 p. m.	[3]6:05 a. m.	1.40	11:22 p. m.	11:52 p. m.	.03	.21	.32	.37	.42	.51	.60								
Aug. 1	[3]11:04 p. m.	7:15 a. m.	2.05	1:41 a. m.	2:13 a. m.	.29	.10	.23	.38	.58	.64	.78	.85							
Aug. 7	8:27 a. m.	10:50 a. m.	1.37	8:31 a. m.	9:30 a. m.	.01	.06	.11	.14	.30	.50	.55	.73	.86	.99	1.06	1.25			
Sept. 9	12:20 a. m.	6:20 a. m.	1.33	2:10 a. m.	2:44 a. m.	.32	.10	.17	.27	.34	.38	.48	.57							
Nov. 12	12:58 a. m.	6:25 a. m.	1.32	12:57 a. m.	1:22 a. m.	.01	.36	.50	.67	.73	.83									
Topeka, Kans.:																				
Feb. 22	8:52 a. m.	4:15 p. m.	2.27	12:02 p. m.	12:27 p. m.	1.09	.14	.35	.48	.54	.60									
July 2	5:45 p. m.	8:00 p. m.	.44	6:24 p. m.	6:36 p. m.	.03	.14	.29	.35											
July 6	8:20 p. m.	11:00 p. m.	.93	8:26 p. m.	8:53 p. m.	.02	.15	.33	.43	.52	.58	.64								
July 10	12:20 a. m.	7:30 a. m.	2.09	2:01 a. m.	2:51 a. m.	.08	.13	.25	.41	.57	.67	.69	.74	.87	1.10	1.27				
Do	9:10 p. m.	11:30 p. m.	2.01	10:09 p. m.	10:57 p. m.	.43	.10	.18	.30	.47	.69	.98	1.12	1.22	1.45	1.56				
July 11	7:10 p. m.	[2]D. N. a. m.	1.04	8:46 p. m.	8:58 p. m.	.06	.37	.67	.73											
Sept. 2-3	11:42 p. m.	5:30 a. m.	1.40	11:45 p. m.	12:11 a. m.	.01	.10	.22	.35	.49	.60	.63								
Sept. 9	6:50 p. m.	[2]D. N. a. m.	1.43	8:09 p. m.	8:19 p. m.	.11	.24	.43												
Sept. 18	3:05 p. m.	[2]D. N. a. m.	1.40	5:28 p. m.	5:42 p. m.	.76	.17	.37	.55											
Nov. 11	1:45 p. m.	[3]10:15 a. m.	2.80	4:18 p. m.	4:48 p. m.	.14	.80	.41	.48	.57	.63	.79								

[3] On following date.

[2] On previous date.

Accumulated amounts of precipitation for each 5 minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes or 0.80 in 1 hour during 1922 at all stations furnished with self-registering gauges—Continued.

Station and date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.													
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
MISSOURI VALLEY—continued.																				
Drexel, Nebr.:																				
June 12	7:30 p. m.	11:00 p. m.	0.67	9:39 p. m.	9:57 p. m.	0.12	0.18	0.32	0.44	0.51										
July 29	[3] 8:40 p. m.	D. N. a. m.	1.76	3:25 a. m.	3:54 a. m.	.94	.05	.22	.40	.55	0.68	0.76								
Aug. 22	6:10 a. m.	6:35 a. m.	.30	6:14 a. m.	6:22 a. m.	.01	.26	.29												
Lincoln, Nebr.:																				
June 24	5:48 a. m.	7:20 a. m.	.74	6:05 a. m.	6:54 a. m.	.02	.11	.16	.21	.27	.34	.40	0.44	0.51	0.61	0.71				
June 30	[3] 11:20 p. m.	5:45 a. m.	.45	1:51 a. m.	2:03 a. m.	.06	.17	.30	.35											
July 6	3:52 p. m.	8:00 p. m.	1.66	4:19 p. m.	4:41 p. m.	.16	.18	.46	.65	1.10	1.21									
July 22	4:19 a. m.	5:00 a. m.	.92	4:26 a. m.	4:49 a. m.	.01	.20	.54	.69	.81	.88									
July 27	12:20 a. m.	6:43 a. m.	1.17	12:52 a. m.	1:14 a. m.	.06	.11	.39	.63	.74	.80									
Sept. 4	1:05 a. m.	D. N. a. m.	.76	1:09 a. m.	1:36 a. m.	.01	.10	.24	.39	.52	.64	.70								
Omaha, Nebr.:																				
July 2 [1]	11:50 a. m.	1:10 p. m.	.66	12:15 p. m.	12:40 p. m.	.01	.06	.16	.38	.52	.59									
July 22	1:11 a. m.	3:07 a. m.	1.27	1:19 a. m.	2:02 a. m.	.01	.24	.47	.75	.87	.94	.98	1.03	1.15	1.19					
July 29	[3] 9:25 p. m.	D. N. a. m.	1.93	2:11 a. m.	2:37 a. m.	.49	.14	.21	.23	.33	.49	.50								
Do	[3] 9:25 p. m.	D. N. a. m.	1.93	5:55 a. m.	4:27 a. m.	1.31	.08	.12	.26	.36	.37	.52	.59							
Aug. 21	D. N. a. m.	D. N. a. m.	.80	2:49 a. m.	3:20 a. m.	.24	.06	.16	.22	.33	.47	.55	.56							
Sept. 8	3:28 p. m.	7:50 p. m.	.78	4:44 p. m.	5:02 p. m.	.12	.15	.21	.33	.40										
Valentine, Nebr.:																				
June 17	7:58 p. m.	11:05 p. m.	.96	9:47 p. m.	10:01 p. m.	.37	.31	.50	.57											
June 25	3:55 a. m.	8:35 a. m.	1.94	5:26 a. m.	6:02 a. m.	.13	.14	.40	.55	.57	.70	.81	.93	.95						
Do	3:55 a. m.	8:35 a. m.	1.94	6:39 a. m.	7:00 a. m.	1.15	.11	.24	.25	.45	.47									
Sioux City, Iowa:																				
June 30	2:55 a. m.	5:45 a. m.	.54	3:05 a. m.	3:17 a. m.	.01	.21	.39	.42											
July 24	3:45 a. m.	6:35 a. m.	.42	6:13 a. m.	6:29 a. m.	.03	.15	.32	.38	.39										
July 25	4:55 a. m.	11:30 a. m.	1.60	9:41 a. m.	10:03 a. m.	.46	.12	.22	.33	.45	.49									
July 28	7:37 p. m.	[2] 4:10 a. m.	2.43	7:43 p. m.	8:21 p. m.	.02	.06	.27	.68	1.00	1.18	1.46	1.70	1.78						
Aug. 20	9:00 p. m.	[2] D. N. a. m.	2.07	10:30 p. m.	11:59 p. m.	.11	.08	.15	.32	.38	.46	.50	.53	.60	.84	1.09	1.21	1.66	1.91	
Huron, S. Dak.:																				
May 10	8:50 p. m.	[2] D. N. a. m.	1.03	11:19 p. m.	11:44 p. m.	.20	.27	.44	.54	.60	.65									
June 9	10:25 p. m.	10:55 p. m.	.31	10:39 p. m.	10:46 p. m.	.01	.25	.29												
June 29	9:15 p. m.	[2] D. N. a. m.	.89	10:23 p. m.	10:53 p. m.	.19	.06	.25	.44	.57										
Pierre, S. Dak.:																				
May 8	8:05 p. m.	D. N. p. m.	1.10	8:25 p. m.	8:56 p. m.	.03	.08	.13	.22	.57	.71	.85	.88							
June 7	10:30 p. m.	11:55 p. m.	1.40	10:34 p. m.	11:37 p. m.	.01	.15	.29	.41	.48	.52	.56	.67	.71	.79	.82	1.20	1.39		
June 8	3:05 a. m.	7:20 a. m.	.92	3:29 a. m.	3:38 a. m.	.02	.55	.72												
July 24	7:37 p. m.	9:20 p. m.	1.13	7:44 p. m.	8:09 p. m.	.01	.27	.57	.69	.82	.95									
Aug. 2	D. N. a. m.	7:15 a. m.	1.47	4:21 a. m.	4:43 a. m.	.05	.20	.57	.88	1.14	1.20									
Nov. 4	[3] 3:50 p. m.	1:00 p. m.	.50	6:26 a. m.	6:31 a. m.	.20	.25													
Yankton, S. Dak.:																				
June 9	8:20 a. m.	8:55 a. m.	.74	8:26 a. m.	8:48 a. m.	.01	.15	.32	.51	.68	.73									
July 28	7:30 a. m.	11:40 a. m.	.76	9:58 a. m.	10:13 a. m.	.21	.10	.27	.35											
NORTHERN SLOPE.																				
Havre, Mont.:																				
Aug. 4	3:58 p. m.	6:10 p. m.	1.36	4:05 p. m.	5:10 p. m.	.01	.15	.31	.45	.48	.50	.53	.63	.67	.83	.93	1.19	1.30		
Helena, Mont. [7]																				
Kalispell, Mont. [7]																				
Rapid City, S. Dak.:																				
May 10	7:50 p. m.	[2] D. N. a. m.	2.09	10:31 p. m.	10:49 p. m.	.15	.28	.66	.88	.98										
May 11	[3] 7:50 p. m.	D. N. a. m.	2.09	1:00 a. m.	1:10 a. m.	1.55	.14	.30												
July 22	6:52 p. m.	7:44 p. m.	.49	6:54 p. m.	7:03 p. m.	.01	.34	.42												
July 28	D. N. a. m.	3:50 a. m.	.86	2:45 a. m.	3:12 a. m.	.05	.10	.20	.37	.62	.74	.78								
Cheyenne, Wyo.:																				
July 20	12:23 p. m.	12:38 p. m.	.56	12:25 p. m.	12:35 p. m.	.01	.22	.54												
Aug. 6	2:42 p. m.	3:05 p. m.	.45	2:42 p. m.	2:52 p. m.	.00	.27	.44												
Lander, Wyo.:																				
Aug. 3	7:44 p. m.	8:26 p. m.	.54	7:48 p. m.	8:16 p. m.	.01	.17	.28	.38	.41	.46	.52								
Sheridan, Wyo.:																				
Aug. 14	7:25 p. m.	8:05 p. m.	1.04	7:27 p. m.	7:47 p. m.	.01	.20	.47	.69	.97										
Yellowstone Park, Wyo. [7]																				
North Platte, Nebr.:																				
May 27	2:53 p. m.	4:57 p. m.	1.31	2:55 p. m.	3:21 p. m.	.01	.15	.39	.78	1.04	1.12	1.15								
July 2	D. N. a. m.	6:15 a. m.	1.87	2:13 a. m.	3:01 a. m.	.05	.13	.34	.44	.49	.57	.74	.94	1.03	1.09	1.13				
Aug. 4	5:15 p. m.	6:07 p. m.	.43	5:49 p. m.	6:06 p. m.	.03	.07	.18	.38	.40										
Nov. 4	12:23 p. m.	7:15 p. m.	1.51	5:11 p. m.	5:23 p. m.	.96	.22	.33	.37											
MIDDLE SLOPE.																				
Denver, Colo.:																				
Aug. 18	3:00 p. m.	4:47 p. m.	.53	3:27 p. m.	3:46 p. m.	.02	.16	.30	.40	.47										
Sept. 15	3:44 p. m.	4:37 p. m.	.52	4:11 p. m.	4:24 p. m.	.07	.14	.38	.44											
Pueblo, Colo.:																				
Aug. 21	2:42 p. m.	3:10 p. m.	.45	2:42 p. m.	2:58 p. m.	.00	.14	.31	.41	.45										
Concordia, Kans.:																				
Feb. 22	5:42 a. m.	8:33 a. m.	.88	5:56 a. m.	6:11 a. m.	.03	.21	.29	.35											
Mar. 18	8:14 a. m.	10:24 a. m.	.44	10:05 a. m.	10:15 a. m.	.03	.21	.39												
June 28	1:45 a. m.	3:00 a. m.	1.51	1:56 a. m.	(1)	.07	.14	.37	.54	.76	.93	1.03	(1)							
July 6	6:06 p. m.	7:57 p. m.	.82	6:08 p. m.	6:26 p. m.	.01	.27	.54	.70	.75										
July 11	5:34 p. m.	6:48 p. m.	.85	6:26 p. m.	6:41 p. m.	.03	.14	.63	.79											
July 24	[3] 10:35 p. m.	3:45 a. m.	1.08	2:05 a. m.	2:28 a. m.	.33	.10	.39	.56	.67	.70									

[1] Defective record. [2] On following date. [3] On previous date. [7] No excessive precipitation.

Accumulated amounts of precipitation for each 5 minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes or 0.80 in 1 hour during 1922 at all stations furnished with self-registering gauges—Continued.

Station and date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.													
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
MIDDLE SLOPE—continued.																				
Dodge City, Kans.:																				
Feb. 22	2:45 a. m.	D. N. a. m.	0.93	2:47 a. m.	2:57 a. m.	0.01	0.14	0.53												
April 23	[3] D. N. p. m.	D. N. a. m.	2.54	1:22 a. m.	2:12 a. m.	.26	.06	.22	0.57	0.92	1.03	1.07	1.14	1.68	2.16	2.26				
May 7	2:02 p. m.	3:10 p. m.	.42	2:09 p. m.	2:16 p. m.	.01	.23	.30												
May 10	6:45 p. m.	8:00 p. m.	.48	7:40 p. m.	7:50 p. m.	.03	.24	.44												
July 6	5:03 p. m.	D. N. p. m.	.94	5:20 p. m.	5:36 p. m.	.01	.17	.37	.50	.54										
July 12	D. N. a. m.	5:00 a. m.	.54	1:35 a. m.	1:47 a. m.	.01	.14	.30	.35											
Aug. 3	12:10 a. m.	D. N. a. m.	.87	12:16 a. m.	12:32 a. m.	.01	.29	.53	.76	.81										
Aug. 7	12:05 a. m.	D. N. a. m.	1.39	1:23 a. m.	2:20 a. m.	.06	.14	.34	.54	.58	.60	.68	.78	.85	.90	.98	1.10			
Sept. 8	1:08 p. m.	1:25 p. m.	.37	1:08 p. m.	1:15 p. m.	.00	.24	.33												
Sept. 9	7:31 p. m.	D. N. p. m.	.50	7:36 p. m.	7:49 p. m.	.01	.12	.37	.44											
Wichita, Kans.:																				
May 11	12:05 a. m.	D. N. a. m.	.66	12:13 a. m.	12:43 a. m.	.01	.09	.18	.36	.43	.52	.61								
May 30	[3] 10:57 p. m.	D. N. a. m.	.66	12:01 a. m.	12:19 a. m.	.15	.09	.21	.38	.44										
June 24	6:08 p. m.	7:30 p. m.	1.35	6:21 p. m.	7:06 p. m.	.08	.07	.25	.32	.54	.68	.77	.94	1.07	1.22					
July 1	12:20 a. m.	D. N. a. m.	.70	12:29 a. m.	12:53 a. m.	.01	.14	.32	.45	.56	.62									
July 2	D. N. a. m.	D. N. a. m.	1.35	1:07 a. m.	1:47 a. m.	.08	.14	.32	.60	.83	.93	.97	1.06	1.12						
July 10	7:04 p. m.	9:00 p. m.	2.49	7:10 p. m.	8:00 p. m.	.01	.07	.30	.57	.88	1.13	1.52	1.74	2.02	2.21	2.35				
July 18	D. N. a. m.	D. N. a. m.	.80	1:50 a. m.	2:03 a. m.	.35	.12	.31	.38											
July 19	6:50 a. m.	9:00 a. m.	.76	7:01 a. m.	7:19 a. m.	.01	.10	.35	.53	.61										
Nov. 11	4:30 p. m.	[2] 12:30 p. m.	4.16	5:45 p. m.	6:06 p. m.	.08	.15	.26	.35	.43	.46									
Do	4:30 p. m.	[2] 12:30 p. m.	4.16	7:42 p. m.	8:35 p. m.	.62	.19	.24	.35	.43	.48	.53	.82	.98	1.32	1.36	1.47			
Do	4:30 p. m.	[2] 12:30 p. m.	4.16	10:03 p. m.	10:37 p. m.	2.16	.25	.45	.58	.75	.95	1.10	1.14							
Broken Arrow, Okla.:																				
Apr. 2	5:30 p. m.	9:00 p. m.	.65	5:58 p. m.	6:19 p. m.	.01	.09	.27	.41	.47	.49									
May 4	D. N. a. m.	6:10 a. m.	.79	3:46 a. m.	4:08 a. m.	.01	.12	.35	.49	.55	.59									
May 8	12:25 a. m.	10:12 a. m.	1.03	12:42 a. m.	1:05 a. m.	.02	.15	.28	.36	.41	.46									
May 20	4:45 a. m.	6:00 a. m.	.75	5:03 a. m.	5:22 a. m.	.01	.25	.38	.60	.71										
May 21	8:00 p. m.	[2] D. N. a. m.	1.56	8:32 p. m.	9:06 p. m.	.03	.09	.11	.22	.46	.70	.78	.84							
May 30	5:30 p. m.	6:45 p. m.	.53	5:50 p. m.	6:13 p. m.	.01	.08	.22	.28	.43	.49									
June 6	1:53 p. m.	2:50 p. m.	.39	2:04 p. m.	2:13 p. m.	.01	.26	.33												
July 2	D. N. a. m.	5:40 p. m.	2.36	4:10 a. m.	4:37 a. m.	.37	.05	.17	.27	.37	.46	.50								
July 11	D. N. a. m.	11:10 a. m.	1.89	5:44 a. m.	6:58 a. m.	.26	.20	.33	.39	.40	.53	.65	.70	.75	.85	.94	1.20	1.45		
July 12	D. N. a. m.	8:20 a. m.	2.50	5:19 a. m.	5:45 a. m.	.87	.07	.12	.30	.43	.61	.64								
Do	D. N. a. m.	8:20 a. m.	2.50	6:47 a. m.	7:11 a. m.	1.75	.11	.20	.31	.43	.50									
Aug. 26	D. N. a. m.	9:15 a. m.	1.48	8:44 a. m.	8:59 a. m.	.93	.16	.43	.51											
Nov. 12	1:45 a. m.	9:15 a. m.	1.70	2:10 a. m.	2:49 a. m.	.02	.07	.20	.35	.40	.52	.62	.71	.79						
Dec. 6	6:54 a. m.	5:00 p. m.	1.38	10:52 a. m.	11:22 a. m.	.64	.09	.15	.21	.25	.34	.52								
Oklahoma City, Okla.:																				
Mar. 13	3:10 p. m.	[2] 6:15 a. m.	1.43	4:03 p. m.	4:23 p. m.	.08	.09	.39	.58	.67										
Apr. 8	D. N. a. m.	6:30 a. m.	1.56	4:53 a. m.	5:29 a. m.	.50	.09	.22	.31	.53	.66	.76	.87	.91						
Do	7:25 a. m.	1:00 p. m.	1.42	8:41 a. m.	9:06 a. m.	.35	.08	.16	.26	.49	.57									
Apr. 27	2:35 p. m.	2:50 p. m.	.41	2:39 p. m.	2:50 p. m.	.01	.24	.38	.40											
May 7	10:15 p. m.	[2] 8:05 a. m.	1.72	10:20 p. m.	10:40 p. m.	.02	.19	.26	.34	.41										
May 21	6:39 p. m.	[2] D. N. a. m.	2.82	6:49 p. m.	7:34 p. m.	.01	.25	.59	.90	1.28	1.55	1.79	1.92	2.06	2.13					
May 29	3:20 p. m.	4:30 p. m.	1.02	3:23 p. m.	3:51 p. m.	.01	.19	.36	.54	.66	.76	.83								
July 2	D. N. a. m.	9:40 a. m.	1.61	3:09 a. m.	3:26 a. m.	.22	.06	.27	.39	.43										
Oct. 30	5:15 p. m.	[2] 9:00 p. m.	2.79	9:02 p. m.	9:22 p. m.	.58	.21	.39	.50	.56										
SOUTHERN SLOPE.																				
Abilene, Tex.:																				
Mar. 13	D. N. a. m.	D. N. a. m.	.53	5:04 a. m.	5:24 a. m.	.01	.25	.30	.41	.51										
Apr. 3	D. N. a. m.	7:20 a. m.	1.72	4:40 a. m.	5:10 a. m.	.68	.17	.31	.39	.50	.60	.67								
Apr. 8	D. N. a. m.	9:15 a. m.	1.82	5:15 a. m.	5:38 a. m.	.76	.21	.34	.49	.56	.62									
Apr. 25	5:27 p. m.	D. N. p. m.	2.30	6:18 p. m.	6:40 p. m.	.06	.08	.33	.42	.59	.64									
Do	5:27 p. m.	D. N. p. m.	2.30	8:30 p. m.	9:26 p. m.	1.09	.07	.13	.18	.25	.41	.51	.56	.60	.66	.73	.85			
May 9	2:20 p. m.	6:00 p. m.	1.51	3:56 p. m.	5:25 p. m.	.03	.06	.12	.19	.27	.32	.38	.62	.74	.82	.88	.95	1.27	1.46	
June 2	D. N. a. m.	8:40 a. m.	1.72	4:54 a. m.	5:08 a. m.	.45	.15	.72	.92											
Amarillo, Tex.:																				
June 1	4:45 p. m.	D. N. p. m.	2.31	6:25 p. m.	6:50 p. m.	.30	.31	.73	1.00	1.28	1.37									
Aug. 6	6:02 p. m.	6:40 p. m.	.64	6:03 p. m.	6:28 p. m.	T.	.11	.25	.33	.49	.61									
Del Rio, Tex.:																				
Apr. 3	D. N. a. m.	D. N. a. m.	.75	2:20 a. m.	2:53 a. m.	.01	.17	.28	.35	.42	.51	.56	.59							
Apr. 25	6:47 p. m.	7:40 p. m.	.86	6:47 p. m.	7:05 p. m.	.00	.16	.52	.68	.80										
Apr. 27	D. N. a. m.	6:38 a. m.	.83	5:09 a. m.	5:25 a. m.	.12	.17	.41	.54	.60										
Apr. 30	[3] D. N. p. m.	1:10 p. m.	1.67	2:05 a. m.	2:19 a. m.	.30	.23	.32	.41											
May 14	4:58 p. m.	6:33 p. m.	.90	5:42 p. m.	6:00 p. m.	.13	.11	.34	.55	.59										
June 3	D. N. a. m.	6:55 a. m.	.84	5:43 a. m.	6:05 a. m.	.01	.14	.49	.60	.68	.72									
June 5	D. N. a. m.	8:07 a. m.	2.74	5:05 a. m.	6:49 a. m.	.08	.10	.36	.52	.65	.68	.72	.78	.85	1.02	1.18	1.44	2.03	2.60	2.65
July 3	D. N. a. m.	12:45 p. m.	2.84	6:51 a. m.	8:10 a. m.	.42	.23	.29	.31	.36	.60	.85	1.04	1.15	1.20	1.29	1.49	1.76		
Roswell, N. Mex.:																				
June 1	9:09 p. m.	10:12 p. m.	.61	9:27 p. m.	9:42 p. m.	.04	.11	.31	.44											
SOUTHERN PLATEAU.																				
El Paso, Tex.[1]																				
Santa Fe, N. Mex.:																				
Aug. 12	1:10 p. m.	3:00 p. m.	1.15	1:26 p. m.	1:51 p. m.	.06	.33	.55	.77	.90	.99									
Phoenix, Ariz.[1]																				
Independence, Calif.[7]																				

[1] Defective record. [2] On following date. [3] On previous date. [7] No excessive precipitation.

Accumulated amounts of precipitation for each 5 minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes or 0.80 in 1 hour during 1922 at all stations furnished with self-registering gauges—Continued.

Station and date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.													
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
MIDDLE PLATEAU.																				
Reno, Nev.[7]																				
Tonopah, Nev.[7]																				
Winnemucca, Nev.[7]																				
Modena, Utah:																				
Aug. 19	11:29 a. m.	12:46 p. m.	0.58	11:33 a. m.	11:45 a. m.	0.01	0.18	0.30	0.34											
Aug. 23	4:35 p. m.	6:40 p. m.	.70	4:37 p. m.	4:55 p. m.	T.	.15	.41	.52	0.55										
Salt Lake City, Utah:																				
June 13	7:10 p. m.	10:20 p. m.	.68	9:34 p. m.	9:45 p. m.	.20	.17	.43	.46											
Grand Junction, Colo.[7]																				
NORTHERN PLATEAU.																				
Baker, Oreg.:																				
Aug. 4	7:30 p. m.	8:15 p. m.	.47	7:40 p. m.	7:55 p. m.	T.	.27	.37	.42											
Boise, Idaho[7]																				
Lewiston, Idaho[7]																				
Pocatello, Idaho:																				
Aug. 1	11:38 a. m.	1:40 p. m.	.51	11:46 a. m.	12:00 noon.	.01	.06	.18	.39											
Spokane, Wash.[7]																				
Walla Walla, Wash.[7]																				
NORTH PACIFIC COAST REGION.																				
North Head, Wash.[7]																				
Port Angeles, Wash.[7]																				
Seattle, Wash.[7]																				
Tacoma, Wash.[7]																				
Tatoosh Island, Wash.:																				
Sept. 4	[3]5:45 a. m.	D. N. a. m.	1.40	2:57 a. m.	3:05 a. m.	1.06	.27	.33												
Portland, Oreg.[7]																				
Roseburg, Oreg.:																				
June 7	3:35 p. m.	4:05 p. m.	.62	3:38 p. m.	3:50 p. m.	.02	.26	.50	.57											
MIDDLE PACIFIC COAST REGION.																				
Eureka, Calif.:																				
Feb. 17	10:00 a. m.	5:00 p. m.	1.20	4:14 p. m.	4:34 p. m.	.73	.15	.24	.34	.40										
Point Reyes, Calif.[7]																				
Red Bluff, Calif.[7]																				
Sacramento, Calif.[7]																				
San Francisco, Calif.[2]																				
San Jose, Calif.[7]																				
SOUTH PACIFIC COAST REGION.																				
Fresno, Calif.[7]																				
Los Angeles, Calif.[7]																				
San Diego, Calif.[7]																				
San Luis Obispo, Calif.:																				
Nov. 8	D. N. a. m.	12:00 noon.	1.27	9:15 a. m.	9:59 a. m.	.34	.10	.17	.27	.45	0.49	0.54	0.65	0.70	0.79					
ALASKA.																				
Juneau, Alaska[7]																				
ISLAND POSSESSIONS.																				
San Juan, P. R.:																				
Jan. 3	7:43 a. m.	1:15 p. m.	2.04	8:27 a. m.	8:56 a. m.	.05	.06	.38	.52	.59	.71	.91								
May 24	12:09 p. m.	2:55 p. m.	1.25	12:34 p. m.	1:17 p. m.	.13	.07	.24	.42	.48	.51	.69	.75	.80	.86					
June 8	12:41 p. m.	4:40 p. m.	1.14	1:52 p. m.	2:19 p. m.	.02	.07	.13	.32	.62	.77	.82								
July 14	1:03 p. m.	2:20 p. m.	.52	2:00 p. m.	2:09 p. m.	.12	.21	.39												
July 26	D. N. a. m.	D. N. a. m.	.80	5:09 a. m.	5:27 a. m.	.02	.35	.53	.65	.69										
Aug. 4	12:14 p. m.	4:25 p. m.	1.46	2:52 p. m.	3:21 p. m.	.43	.15	.16	.28	.39	.64	.73								
Sept. 13	D. N. a. m.	6:53 a. m.	.72	4:38 a. m.	4:52 a. m.	.01	.22	.31	.36											
Sept. 19	2:25 p. m.	3:33 p. m.	1.01	2:33 p. m.	3:08 p. m.	.01	.19	.44	.61	.76	.87	.93	.98							
Oct. 7	2:05 p. m.	4:22 p. m.	.70	2:18 p. m.	2:43 p. m.	.01	.09	.19	.31	.43	.49									
Nov. 2	10:05 p. m.	[2]D. N. a. m.	1.43	10:52 p. m.	11:23 p. m.	.05	.06	.10	.15	.25	.50	.71	.75							
Nov. 3	[3]10:05 p. m.	D. N. a. m.	1.43	1:29 a. m.	1:54 a. m.	.83	.14	.17	.20	.46	.55									
Dec. 1	10:35 a. m.	2:58 p. m.	2.82	12:41 p. m.	2:03 p. m.	.44	.07	.23	.31	.34	.37	.43	.54	.63	.80	1.10	1.80	2.31	2.34	
Honolulu, Hawaii:																				
Jan. 16	D. N. a. m.	6:15 a. m.	.76	5:44 a. m.	6:04 a. m.	.30	.11	.27	.34	.45										
Mar. 4	3:55 p. m.	5:08 p. m.	.51	4:24 p. m.	4:44 p. m.	.05	.15	.20	.26	.46										
Mar. 5	[3]8:28 p. m.	6:56 a. m.	1.10	2:34 a. m.	3:34 a. m.	.07	.12	.16	.19	.27	.29	.35	.45	.53	.61	.66	.84			
July 15	D. N. a. m.	4:55 a. m.	.37	4:11 a. m.	4:23 a. m.	.01	.06	.30	.35											
Oct. 23	5:29 a. m.	8:40 a. m.	1.17	7:13 a. m.	7:47 a. m.	.24	.16	.20	.22	.27	.50	.67	.77							
Do	10:23 a. m.	11:40 a. m.	1.14	10:23 a. m.	11:10 a. m.	.00	.12	.21	.30	.38	.56	.67	.82	.94	1.03	1.06				

[1] On following date. [2] On previous date. [7] No excessive precipitation.

PART III.

MONTHLY AND ANNUAL METEOROLOGICAL SUMMARIES FOR TWO HUNDRED AND TWELVE STATIONS DURING 1922.

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 of 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 latitude and altitude terms.

(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. At several Alaska stations the mean is printed uncorrected.

The extremes are determined from the barograph trace.

Temperature.—The temperature of the air at 8 a. m. and 8 p. m., seventy-fifth meridian time, and at noon, local 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., noon, 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, normal standard time. The monthly means have been obtained by dividing the sum of the mean maximum and mean minimum temperature 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, where the 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, and at noon, local time, on a scale of 0–10. These 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 determine the average cloudiness on the scale given above, 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 were 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.

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

Annual meteorological summary for the year ending December 31, 1922.

ABILENE, TEX.

[ϕ=32° 23′ N.; λ=99° 40′ W.]

Month.	Pressure.	Temperature.										Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	28.289	28.640	27.810	34.4	46.4	44.8	51.3	31.3	41.3	75	16	24	26	26	67	50	54	0.142	0.154	0.161	1.18	0.60	6.4	7.0	5.9	7.0
February	28.235	28.743	27.860	42.9	56.0	54.4	62.1	38.6	50.4	91	10	29	26	23	60	36	34	.175	.158	.139	.46	.20	6.5	6.7	5.7	6.6
March	28.160	28.601	27.805	45.3	62.6	61.8	69.0	42.6	55.8	84	10	31	30	31	61	34	37	.201	.197	.205	1.21	.63	5.2	3.9	5.1	4.6
April	28.113	28.630	27.660	56.6	69.4	69.6	75.2	54.6	64.9	94	37	46	44	44	71	49	48	.337	.331	.325	8.71	3.22	6.9	6.5	6.3	6.9
May	28.092	28.340	27.855	64.7	79.8	77.4	83.8	61.3	72.6	96	48	58	58	57	79	50	53	.485	.496	.472	5.34	1.51	4.4	4.6	3.6	4.4
June	28.170	28.370	27.987	70.4	85.4	84.7	88.7	67.3	78.0	99	57	63	59	60	79	44	45	.586	.515	.515	1.80	1.72	4.6	5.2	3.5	4.5
July	28.194	28.390	27.990	74.6	92.0	90.4	95.8	72.4	84.1	103	62	63	60	58	68	36	37	.580	.527	.496	.96	.95	5.3	5.2	4.0	4.8
August	28.163	28.310	28.045	74.1	93.8	91.0	97.2	72.9	85.0	104	67	62	60	56	66	33	33	.551	.516	.464	.20	.18	4.7	4.5	4.0	4.5
September	28.222	28.430	28.030	65.9	86.0	82.2	89.1	64.9	77.0	99	49	56	53	51	71	34	36	.464	.423	.389	.32	.16	3.1	3.1	3.3	3.0
October	28.198	28.530	27.842	54.4	72.8	67.2	76.5	52.3	64.4	91	38	46	45	47	75	41	52	.324	.316	.336	2.43	1.17	4.9	4.8	3.7	4.5
November	28.290	28.570	27.990	46.9	61.1	56.5	65.4	44.8	55.1	80	31	41	42	43	81	52	61	.277	.284	.289	1.97	.90	5.8	6.0	3.8	5.4
December	28.240	28.600	27.895	40.9	56.0	52.3	61.5	37.4	49.4	78	18	31	30	31	70	41	47	.199	.191	.198	.20	*.22	5.3	5.2	4.3	5.2
Year	28.197	28.743	27.660	55.9	71.8	69.4	76.3	53.4	64.8	104	10	46	44	44	71	42	45	.360	.342	.332	24.78	3.22	5.3	5.2	4.4	5.1

ALBANY, N. Y.

[ϕ=42° 39′ N.; λ=73° 45′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	30.084	30.630	29.921	16.3	23.1	21.6	28.8	12.3	20.6	46	−10	12	15	16	82	72	79	0.081	0.094	0.092	2.00	1.00	5.1	3.7	4.3	4.4
February	30.015	30.520	29.150	24.2	28.9	28.2	34.9	19.2	27.0	51	−10	20	22	23	84	76	79	.119	.127	.131	1.46	.50	6.2	5.3	4.4	5.1
March	29.997	30.578	29.270	31.8	39.6	37.7	45.1	28.7	36.9	73	8	26	27	28	78	62	69	.145	.154	.161	4.69	.96	4.1	4.9	4.0	4.9
April	29.937	30.390	29.120	43.6	52.5	50.1	57.9	38.2	48.0	86	27	36	34	36	75	52	61	.220	.204	.225	2.26	.92	4.7	4.7	3.5	4.6
May	29.893	30.400	29.350	57.7	68.5	66.2	73.5	51.0	62.2	85	34	46	46	49	67	47	57	.320	.319	.362	3.68	1.70	3.3	2.9	3.5	3.2
June	29.840	30.095	29.300	66.4	73.9	71.3	78.1	60.4	69.2	89	48	59	62	63	79	69	78	.518	.577	.597	7.60	2.62	6.1	5.5	4.2	5.8
July	29.907	30.136	29.606	69.1	77.7	74.5	81.1	63.6	72.4	93	53	61	62	62	77	58	66	.549	.560	.561	1.27	.49	3.5	4.1	3.0	3.5
August	29.880	30.244	29.430	64.6	75.0	71.1	79.0	60.5	69.8	94	51	59	58	60	83	57	70	.510	.496	.534	4.19	1.14	5.5	4.5	4.7	5.4
September	30.016	30.362	29.550	59.0	70.1	65.2	74.2	55.0	64.6	85	36	54	54	57	83	58	75	.430	.436	.478	2.41	1.02	5.2	3.0	2.1	4.2
October	29.880	30.360	29.360	47.1	58.0	52.6	62.4	42.1	52.2	88	25	41	42	43	80	57	71	.287	.306	.310	1.56	.51	4.2	3.9	2.7	4.0
November	29.924	30.337	29.310	38.1	44.1	41.5	48.1	33.7	40.9	59	21	32	32	32	77	63	70	.184	.190	.190	.90	.31	6.7	6.2	5.3	6.2
December	30.042	30.556	29.610	25.5	29.6	28.3	35.1	20.4	27.8	60	0	20	22	22	79	72	75	.116	.119	.119	2.10	.85	7.0	5.6	5.1	6.3
Year	29.951	30.630	29.120	45.3	53.4	50.7	58.2	40.4	49.3	94	−10	39	40	41	79	62	71	.290	.298	.313	34.12	2.62	5.1	4.5	3.9	4.8

ALPENA, MICH.

[ϕ=45° 05′ N.; λ=83° 30′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.451	30.042	28.650	15.1	23.1	20.3	27.7	11.1	19.4	38	−8	12	15	15	86	70	78	0.077	0.090	0.088	1.13	0.42	6.6	5.9	4.9	5.5
February	29.378	30.000	28.567	16.9	22.9	20.7	27.4	11.2	19.3	40	−10	13	16	15	86	72	78	.083	.100	.091	3.09	1.67	7.4	6.5	5.7	6.4
March	29.419	29.960	28.650	25.1	33.3	31.2	37.0	21.4	29.2	54	1	20	23	24	81	66	75	.114	.127	.134	1.92	.89	5.3	4.7	4.5	5.3
April	29.368	29.820	28.370	38.1	43.3	41.2	48.2	33.3	40.8	71	22	32	33	33	79	69	73	.184	.195	.190	2.78	.93	6.2	6.6	5.4	6.0
May	29.325	29.750	28.540	55.3	59.2	56.5	64.2	47.6	55.9	79	39	46	47	47	72	66	72	.313	.327	.325	1.78	.61	5.0	5.1	4.5	5.1
June	29.321	29.630	28.830	60.8	68.0	64.4	72.3	52.1	62.2	92	39	52	53	52	75	63	68	.400	.419	.405	2.51	1.64	4.2	4.5	4.8	4.8
July	29.353	29.660	28.820	63.2	69.6	66.2	73.2	55.5	64.4	85	43	56	58	57	78	68	73	.454	.487	.470	3.56	1.15	4.8	5.8	4.7	5.5
August	29.349	29.640	28.850	61.4	71.1	67.1	73.7	55.0	64.4	90	44	56	57	58	82	63	73	.450	.479	.494	5.14	2.54	3.8	3.7	3.8	4.7
September	29.453	29.880	29.150	56.9	66.9	62.0	70.0	51.1	60.6	90	37	52	53	54	86	63	75	.407	.422	.439	1.04	.38	3.9	4.4	3.5	4.8
October	29.320	29.760	28.730	43.8	51.9	47.5	55.0	39.7	47.4	86	26	39	40	40	83	64	76	.254	.263	.264	2.08	1.18	5.3	6.1	5.2	6.4
November	29.346	29.886	28.830	36.9	41.7	39.4	44.1	33.3	38.7	61	21	33	34	33	86	74	78	.199	.203	.195	2.61	.57	9.3	8.1	8.7	8.8
December	29.367	29.860	28.780	22.7	27.0	23.7	30.2	18.2	24.2	58	−1	19	20	18	84	72	78	.107	.110	.104	.91	.27	8.0	7.4	7.2	7.5
Year	29.371	30.042	28.370	41.3	48.2	45.0	51.9	35.8	43.9	92	−10	36	37	37	82	68	75	.254	.268	.267	28.53	2.54	5.8	5.7	5.2	5.9

AMARILLO, TEX.

[ϕ=35° 13′ N.; λ=101° 50′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	26.282	26.640	25.810	25.0	37.4	36.7	46.2	21.8	34.0	67	2	20	23	23	80	57	59	0.107	0.125	0.126	0.78	0.64	4.8	4.6	3.3	4.6
February	26.253	26.680	25.880	30.4	45.2	45.9	54.7	27.0	40.8	79	3	22	23	23	72	44	43	.127	.130	.129	1.44	.64	6.2	4.8	4.8	5.1
March	26.202	26.580	25.720	34.1	49.5	51.5	58.4	32.2	45.3	82	0	29	32	30	75	54	47	.162	.193	.186	4.06	3.13	5.3	4.1	4.7	4.3
April	26.190	26.660	25.770	44.7	58.5	61.5	66.4	43.2	54.8	83	33	39	41	38	80	57	51	.245	.266	.254	3.25	1.22	5.3	4.6	5.1	4.7
May	26.217	26.540	25.850	55.4	70.7	72.6	77.2	52.7	65.0	91	44	48	48	47	78	49	44	.347	.348	.332	1.60	.56	4.0	3.8	3.6	3.3
June	26.294	26.510	26.059	64.2	79.1	78.4	85.1	61.7	73.4	94	49	58	59	58	82	52	52	.490	.498	.486	3.77	2.48	4.5	3.2	4.7	3.4
July	26.326	26.560	26.040	67.5	85.2	86.7	91.7	65.9	78.8	99	57	57	56	55	72	40	36	.476	.460	.439	1.04	.51	4.2	3.7	3.4	2.7
August	26.312	26.450	26.160	69.4	92.0	87.5	95.0	68.2	81.6	104	61	58	58	57	68	37	38	.485	.488	.473	.78	.69	3.9	2.8	3.8	2.5
September	26.348	26.556	26.149	61.3	80.6	77.5	86.1	60.1	73.1	99	49	51	53	53	69	41	45	.379	.416	.414	1.41	.58	3.8	3.0	3.9	3.6
October	26.284	26.600	25.888	48.3	67.5	65.2	74.2	46.5	60.4	89	34	38	39	39	69	39	41	.236	.251	.246	.23	.13	5.4	2.4	3.3	3.1
November	26.333	26.680	25.950	38.5	52.0	49.6	59.3	35.2	47.2	77	17	32	35	35	77	55	58	.199	.213	.213	1.39	.59	4.7	3.4	3.6	3.5
December	26.260	26.620	25.910	32.3	47.7	45.1	56.0	27.6	41.8	72	9	25	28	27	72	48	51	.136	.156	.151	.10	.09	4.2	4.1	3.4	3.9
Year	26.275	26.680	25.720	47.6	63.8	63.2	70.9	45.2	58.6	104	0	40	41	40	74	48	47	.282	.295	.287	19.85	3.13	4.7	3.7	4.0	3.7

* Nov. 30–Dec. 1.

Annual meteorological summary for the year ending December 31, 1922—Continued.

ABILENE, TEX.

[H_b=1,738 ft.; h_1=10 ft.; h_r=3 ft.; h_a=52 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	9.2	N.	44	SW.	1	13	6	6	9	13	6	3	5	1	7	5	19	8	4	1	0	0	0	2	0	18	1	0
February	12.6	S.	40	S.	1	9	6	3	2	14	11	5	6	0	6	10	12	6	3	2	1	0	0	1	1	10	1	0
March	15.0	S.	48	W.	5	8	4	3	8	21	5	7	6	0	11	13	7	6	3	1	1	0	0	1	0	4	5	0
April	12.1	SE.	40	W.	2	7	5	5	15	16	5	3	4	0	7	5	18	11	10	0	0	2	0	0	3	0	10	0
May	9.1	S.	35	S.	0	4	10	4	10	12	9	3	8	2	12	12	7	10	8	0	0	2	0	0	7	0	8	0
June	7.8	S.	28	NW.	0	2	5	3	21	19	4	5	0	1	15	9	6	4	2	0	0	0	0	0	16	0	2	0
July	9.7	S.	31	S.	0	5	2	0	17	28	9	1	0	0	13	9	9	2	1	0	0	0	0	0	27	0	3	0
August	7.4	S.	29	NW.	0	1	3	5	24	17	11	1	0	0	13	12	6	2	1	0	0	0	0	0	30	0	7	0
September	7.6	S.	29	SE.	0	4	9	4	17	17	5	1	3	0	21	4	5	3	2	0	0	0	0	0	14	0	2	0
October	7.1	S.	32	S.	0	9	2	5	10	17	7	6	5	1	13	8	10	11	7	0	0	0	0	0	1	0	1	0
November	8.9	SE.	34	S.	0	11	7	3	15	9	4	8	3	0	9	10	11	8	5	1	0	0	0	0	0	1	3	0
December	9.3	S.	38	NW.	0	12	3	2	5	23	8	4	5	0	13	6	12	1	1	0	0	0	0	0	0	11	1	0
Year	9.6	S.	48	W.	9	85	62	43	153	206	84	47	45	5	140	103	122	72	47	5	2	4	0	4	99	44	44	0

ALBANY, N. Y.

[H_b=97 ft.; h_1=102 ft.; h_r=100 ft.; h_a=115 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	8.3	NW.	34	S.	0	6	9	1	2	16	2	5	21	0	16	7	8	8	7	13	6	0	1	20	0	29	0	0
February	8.3	S.	37	S.	0	0	6	0	3	21	4	2	20	0	10	9	9	12	7	11	7	0	0	9	0	24	0	0
March	7.3	S.	29	S.	0	4	11	1	2	20	3	4	17	0	13	8	10	13	11	10	3	0	2	3	0	22	2	0
April	8.1	S.	40	SE.	1	6	13	1	5	14	1	13	7	0	15	5	10	9	8	3	1	0	1	0	0	8	2	0
May	7.3	S.	42	S.	1	5	8	0	3	22	2	3	15	0	19	8	4	7	6	0	0	0	1	0	0	0	1	0
June	6.8	S.	34	S.	0	1	3	0	1	31	2	8	14	0	9	12	9	16	13	0	0	0	0	0	0	0	7	0
July	7.0	S.	26	SE.	0	6	8	0	3	31	4	5	5	0	19	5	7	9	8	0	0	0	0	0	1	0	6	0
August	6.2	S.	30	SW.	0	5	5	2	4	28	4	2	12	0	7	14	10	16	13	0	0	0	2	0	2	0	8	0
September	6.3	S.	24	S.	0	2	6	0	4	33	1	0	14	0	14	9	7	6	4	0	0	0	6	0	0	0	4	0
October	6.9	NW.	35	S.	0	1	5	1	1	24	5	2	23	0	16	8	7	7	6	1	0	0	4	0	0	5	2	0
November	6.7	S.	26	NW.	0	2	5	0	2	23	4	3	21	0	6	12	12	10	6	5	1	0	1	1	0	14	0	0
December	8.4	S.	35	S.	0	6	5	3	0	27	3	2	16	0	10	5	16	9	7	12	8	0	1	13	0	24	0	0
Year	7.3	S.	42	S.	2	44	84	9	30	294	35	49	185	0	154	102	109	122	96	55	26	0	19	46	3	126	32	0

ALPENA, MICH.

[H_b=609 ft.; h_1=13 ft.; h_r=4 ft.; h_a=92 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	12.3	SW.	45	NW.	4	0	8	5	4	8	12	17	8	0	10	6	15	9	4	16	9	0	1	21	0	31	1	1
February	12.6	W.	42	SE.	4	3	6	2	4	5	10	15	11	0	7	9	12	14	8	17	12	0	1	20	0	28	0	0
March	12.4	NW.	39	E.	0	7	9	7	8	6	5	8	12	0	13	7	11	12	8	11	6	0	0	11	0	30	0	1
April	12.2	NW.	54	NW.	3	5	4	5	14	6	2	6	18	0	9	9	12	10	8	3	2	0	6	0	0	11	4	2
May	8.8	SE.	48	NW.	1	6	9	13	14	2	3	6	9	0	12	8	11	11	8	0	0	0	4	0	0	0	3	1
June	9.5	SE.	38	E.	0	6	3	10	12	2	8	5	14	0	11	12	7	7	7	0	0	0	3	0	1	0	6	1
July	9.9	SE.	42	W.	2	3	2	3	18	10	4	5	17	0	7	14	10	9	8	0	0	0	2	0	0	0	5	3
August	8.7	NW.	52	NW.	1	7	7	3	12	4	6	10	13	0	9	18	4	8	6	0	0	1	1	0	1	0	2	7
September	8.7	NW.	34	NW.	0	7	5	6	10	2	6	8	16	0	13	12	5	5	5	0	0	0	2	0	1	0	2	1
October	11.7	NW.	40	NW.	1	5	6	11	2	4	11	6	17	0	7	12	12	13	6	4	3	0	1	0	0	6	1	0
November	12.3	NW.	39	SW.	0	2	0	2	5	10	12	8	21	0	1	4	25	16	9	11	4	0	0	6	0	16	0	0
December	13.4	W.	48	W.	3	2	6	4	4	12	14	12	8	0	0	15	16	18	8	21	14	0	1	16	0	31	0	0
Year	11.0	NW.	54	NW.	19	53	65	71	107	71	93	106	164	0	99	126	140	132	85	83	50	1	22	74	3	153	24	17

AMARILLO, TEX.

[H_b=3,676 ft.; h_1=10 ft.; h_r=3 ft.; h_a=49 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	11.6	SE.	37	NW.	0	7	4	2	15	9	13	6	6	0	14	11	6	8	4	6	4	1	1	3	0	29	1	0
February	13.6	SW.	36	N.	0	9	0	6	6	8	18	4	5	0	8	16	4	4	4	4	3	0	0	2	0	20	1	0
March	13.8	S.	44	NW.	2	10	1	2	12	13	9	5	10	0	16	11	4	7	6	7	4	0	0	3	0	13	1	0
April	12.2	SE.	40	NW.	1	7	4	3	17	12	8	2	7	0	12	11	7	8	7	2	0	0	0	0	0	0	3	0
May	10.3	SE.	46	S.	1	9	6	3	12	12	9	5	6	0	18	11	2	10	6	0	0	0	0	0	1	0	7	0
June	10.0	S.	37	N.	0	4	2	3	23	23	2	2	1	0	18	11	1	6	6	0	0	1	0	0	11	0	7	0
July	10.6	S.	36	N.	0	6	2	4	18	23	7	0	2	0	28	3	0	6	5	0	0	0	0	0	24	0	3	0
August	9.5	S.	42	SE.	1	0	6	3	13	27	7	4	2	0	26	5	0	4	3	0	0	0	0	0	25	0	5	0
September	10.3	S.	28	N.	0	2	2	4	20	25	3	3	1	0	19	8	3	8	7	0	0	0	0	0	10	0	7	0
October	10.0	S.	39	N.	0	12	2	0	9	20	8	5	6	0	24	5	2	3	2	0	0	0	0	0	0	0	1	0
November	12.0	S.	44	SW.	1	10	3	1	14	12	8	4	8	0	18	7	5	7	6	3	1	1	0	0	0	8	0	0
December	10.9	SW.	36	N.	0	12	0	3	4	9	20	5	9	0	17	10	4	2	1	1	1	0	0	2	0	20	0	0
Year	11.3	S.	46	S.	6	88	32	34	163	193	112	45	63	0	218	109	38	73	57	23	13	3	1	10	71	90	36	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

ANNISTON, ALA.

[ϕ=33° 39′ N.; λ=85° 50′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.388	29.640	28.600	40.7	48.8	45.5	53.2	37.2	45.2	72	18	34	35	....	76	61	....	0.212	0.223	....	5.83	1.49	7.3	6.4	7.1	6.8
February	29.362	29.790	28.930	46.2	56.0	52.6	61.1	42.6	51.8	78	20	41	42	....	82	60	....	.283	.290	....	6.98	1.81	7.4	6.3	5.9	6.8
March	29.318	29.595	28.800	48.4	59.9	56.1	65.1	43.8	54.4	81	27	42	42	....	80	56	....	.294	.300	....	8.76	2.30	6.2	6.0	5.3	5.5
April	29.316	29.660	28.910	58.8	71.9	66.1	75.8	53.4	64.6	88	36	52	51	....	78	51	....	.407	.388	....	6.09	2.62	5.9	4.7	4.5	4.9
May	29.203	29.510	28.810	66.4	76.8	69.2	80.2	60.3	70.2	89	53	60	60	....	81	59	....	.526	.546	....	5.28	1.32	5.8	5.4	7.2	5.8
June	29.250	29.440	29.020	73.3	84.0	77.0	87.6	66.8	76.7	94	58	68	66	....	82	57	....	.677	.644	....	5.49	2.90	4.3	4.0	5.7	4.6
July	29.306	29.449	29.130	74.5	84.4	77.4	88.6	67.9	78.2	95	58	68	68	....	82	58	....	.699	.685	....	5.20	1.05	4.2	3.3	4.9	4.1
August	29.253	29.430	29.070	71.1	83.5	76.1	87.4	65.4	76.4	95	54	66	65	....	83	56	....	.618	.622	....	1.40	.32	4.5	3.5	3.7	4.1
September	29.309	29.450	29.120	68.5	80.1	74.2	89.1	63.7	76.4	97	52	62	61	....	79	44	....	.562	.544	....	.44	.20	2.7	2.3	2.6	2.7
October	29.247	29.460	28.980	57.7	72.6	62.4	75.7	52.7	64.2	89	36	50	49	....	75	48	....	.393	.372	....	1.99	1.44	4.0	4.7	3.8	4.4
November	29.385	29.620	28.750	47.4	61.9	53.5	65.0	42.6	53.8	78	22	41	41	....	78	49	....	.292	.288	....	1.83	.78	5.0	4.4	3.7	4.4
December	29.340	29.640	28.780	47.8	56.0	51.8	60.5	43.9	52.2	78	28	43	46	....	84	70	....	.304	.329	....	7.05	3.32	7.5	6.9	6.2	7.1
Year	29.306	29.790	28.600	58.4	70.1	63.5	74.1	53.3	63.7	97	18	52	52	....	80	56	....	.439	.436	....	56.34	3.32	5.4	4.8	5.0	5.1

ASHEVILLE, N. C.

[ϕ=35° 36′ N.; λ=82° 32′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	27.765	28.110	26.900	33.8	41.3	38.9	45.7	30.7	38.2	63	12	28	27	30	79	60	72	0.170	0.169	0.181	2.84	0.74	7.5	7.5	7.4	7.1
February	27.746	28.100	27.390	39.3	48.6	45.4	53.9	36.6	45.2	73	13	34	35	36	82	62	71	.214	.223	.227	4.06	1.39	7.4	6.6	6.1	6.7
March	27.733	28.050	27.240	43.4	52.5	49.9	57.4	39.7	48.6	75	29	37	36	38	79	58	66	.243	.233	.247	4.69	1.34	6.3	7.1	6.1	6.0
April	27.761	28.030	27.210	50.6	63.0	59.5	67.6	46.6	57.1	85	30	43	42	44	77	49	60	.295	.284	.306	3.37	1.24	6.0	6.0	5.4	4.7
May	27.682	28.026	27.140	58.5	68.9	65.2	72.9	53.5	63.2	83	36	53	52	53	82	58	67	.406	.403	.414	2.59	.73	6.0	7.0	6.4	6.0
June	27.727	27.915	27.490	66.0	77.6	72.2	80.9	61.4	71.2	87	52	61	59	62	84	54	72	.538	.505	.560	3.68	1.41	5.0	6.8	6.1	5.2
July	27.780	27.950	27.580	67.3	78.0	72.7	81.9	63.7	72.8	87	58	64	64	65	90	63	78	.604	.595	.623	4.55	.96	5.5	6.6	7.0	5.6
August	27.741	27.940	27.550	63.0	74.8	70.0	78.5	59.6	69.0	87	49	59	58	60	88	58	72	.505	.490	.525	1.64	.86	5.4	6.5	6.4	5.2
September	27.813	27.980	27.600	59.5	75.6	69.6	79.1	56.5	67.8	87	47	56	54	57	88	49	66	.451	.431	.475	1.19	.98	3.3	4.7	4.0	3.8
October	27.718	27.990	27.380	47.1	65.4	59.0	68.7	44.6	56.6	81	32	43	42	44	87	47	60	.298	.293	.303	3.36	1.59	4.0	3.5	3.3	4.0
November	27.796	28.080	27.200	38.7	53.4	48.4	57.1	35.9	46.5	72	17	33	34	35	81	48	59	.204	.212	.216	.26	.13	3.8	3.5	2.5	3.5
December	27.749	28.070	27.160	39.4	48.3	46.1	53.5	35.7	44.6	71	23	35	37	36	84	68	71	.219	.235	.228	4.93	1.21	6.7	6.3	6.0	6.9
Year	27.751	28.110	26.900	50.6	62.3	58.1	66.4	47.0	56.7	87	12	46	45	47	83	56	68	.346	.339	.359	37.16	1.59	5.6	6.0	5.6	5.4

ATLANTA, GA.

[ϕ=33° 45′ N.; λ=84° 23′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	28.920	29.190	28.110	39.1	46.3	45.2	50.3	35.6	43.0	68	21	34	39	39	81	75	80	0.211	0.251	0.253	5.03	1.08	7.0	6.6	5.9	6.9
February	28.889	29.270	28.538	44.9	53.4	52.4	58.2	42.0	50.1	74	20	41	45	46	88	76	81	.281	.326	.334	6.55	1.86	6.9	6.9	5.4	7.8
March	28.866	29.139	28.392	48.4	57.3	56.8	62.2	45.0	53.6	78	31	42	49	50	81	76	78	.294	.358	.378	10.30	3.12	6.3	6.0	4.1	6.1
April	28.875	29.148	28.490	57.6	67.0	66.5	72.2	53.4	62.8	85	41	50	52	51	78	62	61	.388	.411	.398	4.34	1.73	6.6	5.5	4.0	5.6
May	28.765	29.085	28.330	64.3	73.3	70.7	77.0	60.9	69.0	85	53	59	59	61	84	64	72	.513	.515	.537	8.01	2.72	6.4	6.9	7.4	7.2
June	28.812	28.990	28.595	72.6	81.4	78.1	85.5	68.0	76.8	93	64	65	64	65	77	58	66	.619	.610	.622	4.41	1.90	5.1	6.1	5.4	6.1
July	28.858	29.020	28.710	73.6	82.8	79.1	86.5	69.0	77.8	93	62	69	68	68	86	63	71	.707	.695	.694	6.97	1.35	5.2	6.1	6.3	6.4
August	28.806	28.990	28.610	70.6	80.2	77.4	84.2	67.4	75.8	94	61	65	66	66	83	64	70	.626	.645	.651	2.72	.98	5.4	5.7	5.3	5.9
September	28.862	29.030	28.720	68.8	80.6	77.5	84.7	65.9	75.3	94	59	62	62	61	80	54	58	.571	.560	.547	1.16	.88	4.0	3.9	2.7	4.0
October	28.793	29.050	28.530	57.1	68.9	65.5	71.8	54.5	63.2	83	41	51	53	52	82	60	64	.397	.419	.402	3.48	1.80	4.5	4.3	3.2	5.0
November	28.916	29.158	28.300	46.9	58.6	55.7	61.7	44.1	52.9	75	28	43	47	47	88	67	73	.302	.352	.343	1.42	.79	4.3	4.1	3.4	4.4
December	28.876	29.190	28.330	47.4	53.6	52.2	57.5	43.5	50.5	73	30	45	48	48	91	81	85	.318	.345	.343	6.20	1.62	6.1	7.2	6.4	7.5
Year	28.853	29.270	28.110	57.6	67.0	64.8	71.0	54.1	62.6	94	20	52	54	54	83	67	72	.436	.458	.458	60.59	3.12	5.6	5.8	5.0	6.1

ATLANTIC CITY, N. J.

[ϕ=39° 22′ N.; λ=74° 25′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	30.115	30.605	28.753	28.1	34.1	32.9	38.7	25.6	32.2	53	11	22	24	25	79	66	72	0.129	0.137	0.144	4.04	1.73	6.2	5.9	4.9	5.6
February	30.078	30.540	29.450	34.3	38.0	36.1	42.8	30.4	36.6	63	4	30	32	30	86	77	78	.178	.188	.173	3.67	.85	7.2	6.8	5.7	6.3
March	30.049	30.630	29.340	39.7	44.0	41.9	47.7	35.6	41.6	70	20	34	36	36	80	74	80	.208	.224	.219	4.38	1.09	5.9	5.3	4.7	5.7
April	30.021	30.380	29.280	48.6	52.3	49.2	56.4	42.5	49.4	85	30	40	40	40	74	66	72	.259	.260	.256	1.75	1.03	5.1	4.9	4.4	4.8
May	29.949	30.450	29.430	60.5	63.8	60.5	67.3	55.1	61.2	86	41	54	55	53	80	75	80	.422	.438	.416	1.45	.70	4.6	4.1	3.5	3.9
June	29.919	30.120	29.511	69.5	72.4	69.1	75.3	64.5	69.9	90	54	63	64	64	82	77	84	.586	.604	.599	5.46	1.53	5.8	5.7	6.4	5.5
July	29.970	30.175	29.690	72.0	74.5	71.8	76.9	67.5	72.2	86	58	67	68	67	85	81	86	.665	.687	.674	5.03	1.82	5.9	5.3	5.4	5.1
August	29.938	30.257	29.652	70.7	74.1	71.0	76.1	66.4	71.2	85	53	66	66	66	85	76	84	.640	.644	.643	5.13	1.60	5.8	5.1	5.3	5.6
September	30.062	30.390	29.739	66.7	72.6	69.0	74.8	62.6	68.6	86	45	61	62	62	82	71	79	.555	.584	.578	1.15	.50	4.4	3.3	2.1	3.4
October	29.955	30.400	29.500	56.3	64.0	60.4	66.4	52.0	59.2	86	33	50	49	50	78	61	71	.396	.395	.407	1.50	.55	4.2	4.5	3.7	3.7
November	30.017	30.410	29.450	44.2	52.2	47.5	54.1	40.1	47.1	70	26	37	38	39	77	59	72	.242	.247	.251	.58	.29	4.8	4.0	3.2	4.4
December	30.080	30.585	29.216	35.4	40.3	38.9	44.1	30.8	37.4	58	16	30	32	32	81	73	77	.177	.190	.191	4.79	2.52	7.7	7.7	4.7	7.6
Year	30.013	30.630	28.753	52.2	56.9	54.0	60.0	47.8	53.9	90	4	46	47	47	81	71	78	.371	.383	.379	38.93	2.52	5.6	5.2	4.5	5.1

Annual meteorological summary for the year ending December 31, 1922—Continued.

ANNISTON, ALA.

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

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	7.1	SE.	26	SE.	0	11	3	9	13	9	3	3	11	0	6	10	15	15	10	2	1	0	0	0	0	9	0	0
February	7.0	NW.	27	NW.	0	11	1	1	12	9	4	2	13	3	6	6	16	11	10	1	1	0	0	0	0	5	3	0
March	7.9	SE.	30	W.	0	7	0	3	15	13	4	5	15	0	8	13	10	14	11	0	0	0	0	0	0	6	7	0
April	6.1	S.	33	W.	0	4	2	3	15	16	6	5	8	1	11	13	6	8	6	0	0	0	0	0	0	0	5	0
May	5.1	E.	24	NW.	0	3	2	12	19	3	5	8	9	1	7	14	10	18	14	0	0	1	1	0	0	0	13	0
June	3.4	SW.	22	NW.	0	5	3	4	6	9	14	6	10	3	7	21	2	9	9	0	0	0	1	0	11	0	13	0
July	3.5	SE.	31	NW.	0	7	1	1	17	8	9	5	7	7	15	12	4	14	12	0	0	1	0	0	12	0	16	0
August	3.9	E.	20	N.	0	11	4	14	10	5	2	2	4	10	14	13	4	14	10	0	0	0	0	0	8	0	8	0
September	4.2	SE.	22	W.	0	6	5	12	12	9	4	1	3	8	19	9	2	5	4	0	0	0	0	0	10	0	9	0
October	5.1	SE.	16	SE.	0	3	1	16	19	3	0	7	6	7	14	9	8	4	3	0	0	0	0	0	0	0	1	0
November	5.8	SE.	28	NW.	0	10	0	2	23	5	2	4	12	2	14	9	7	6	5	1	0	0	0	0	0	7	0	0
December	6.7	SE	26	SE.	0	9	1	2	18	9	11	3	7	2	7	4	20	14	13	0	0	0	1	0	0	4	5	0
Year	5.5	SE.	33	W.	0	87	23	79	179	98	64	51	105	44	128	133	104	132	107	4	2	2	3	0	41	31	80	0

ASHEVILLE, N. C.

[H_b=2,255 ft.; h_t=70 ft.; h_r=61 ft.; h_a=84 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	9.3	NW.	34	E.	0	6	0	8	18	6	0	1	22	1	6	6	19	12	12	7	4	0	0	2	0	17	0	0
February	9.6	SE.	34	E.	0	10	0	5	17	7	1	3	12	1	2	15	11	10	9	5	4	0	2	1	0	8	0	0
March	11.6	SE.	35	SE.	0	8	0	4	27	1	0	0	20	2	7	11	13	15	13	3	1	0	1	0	0	8	2	0
April	9.5	NW.	42	E.	1	2	1	5	23	4	3	2	20	0	10	12	8	11	11	0	0	0	2	0	0	1	1	0
May	6.9	SE.	32	NW.	0	7	2	3	21	8	5	0	14	2	6	16	9	13	11	0	0	0	2	0	0	0	8	0
June	5.5	NW.	25	N.	0	10	1	2	11	9	3	1	21	2	6	19	5	15	12	0	0	0	6	0	0	0	15	0
July	5.4	NW.	25	NW	0	9	0	4	16	5	4	1	20	3	5	22	4	15	10	0	0	0	9	0	0	0	16	0
August	5.8	NW.	28	E.	0	11	1	7	13	4	0	1	20	5	10	14	7	8	6	0	0	0	5	0	0	0	6	0
September	4.9	SE.	24	SE.	0	3	1	11	16	9	2	5	8	5	13	12	5	5	3	0	0	0	8	0	0	0	7	0
October	5.4	SE.	26	N.	0	3	0	3	21	9	3	5	14	4	16	7	8	6	5	0	0	0	5	0	0	1	1	0
November	9.0	NW.	34	NW.	0	5	0	1	17	4	0	2	28	3	18	6	6	3	3	3	1	0	2	1	0	12	0	0
December	8.4	SE.	37	NW.	0	13	1	2	22	4	0	3	15	2	8	6	17	15	12	2	1	0	1	0	0	10	1	0
Year	7.6	SE.	42	E.	1	87	7	55	222	70	21	24	214	30	107	146	112	128	107	20	11	0	43	4	0	57	57	0

ATLANTA, GA.

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

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	12.8	NW.	44	NW.	2	2	2	18	3	8	5	4	20	0	9	2	20	15	9	3	3	0	3	0	0	8	0	0
February	12.6	NW.	48	NW.	3	2	2	7	10	5	4	7	19	0	4	6	18	11	11	2	0	0	5	0	0	6	3	0
March	13.6	NW.	44	W.	1	2	2	6	9	18	2	5	18	0	11	2	18	17	14	0	0	0	1	0	0	2	7	0
April	11.3	S.	42	NW.	1	1	3	9	9	15	5	8	10	0	11	7	12	7	7	0	0	0	1	0	0	0	2	0
May	11.1	E.	48	NW.	2	4	1	18	10	9	2	8	10	0	4	7	20	17	15	0	0	1	1	0	0	0	7	0
June	8.1	NW.	60	NW.	1	1	3	8	7	10	5	8	17	1	7	8	15	10	7	0	0	0	0	0	5	0	13	0
July	7.9	NW.	48	NW.	1	3	0	4	11	9	3	13	18	1	6	12	13	19	14	0	0	0	0	0	7	0	15	0
August	7.4	E.	36	NW.	0	3	6	22	3	5	7	4	12	0	11	6	14	13	7	0	0	0	0	0	6	0	6	0
September	8.2	E.	38	NW.	0	7	6	27	8	3	1	0	8	0	18	5	7	5	3	0	0	0	0	0	6	0	4	0
October	10.8	E.	28	NW.	0	1	4	29	5	2	1	4	16	0	13	6	12	8	6	0	0	0	0	0	0	0	0	0
November	12.1	NW.	40	NW.	1	3	2	15	8	5	2	4	31	0	15	4	11	7	5	0	0	0	1	0	0	3	0	0
December	12.8	W.	46	NW.	1	4	2	10	9	9	5	12	11	0	6	2	23	16	10	0	0	0	5	0	0	3	2	0
Year	10.7	NW.	60	NW.	13	33	33	173	92	98	42	77	180	2	115	67	183	145	108	5	3	1	17	0	24	22	59	0

ATLANTIC CITY, N. J.

[H_b=52 ft.; h_t=37 ft.; h_r=33 ft.; h_a=172 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	19.3	NW.	74	E.	9	11	8	1	3	4	7	9	18	1	11	4	16	10	8	4	3	0	1	5	0	23	0	0
February	18.7	NW.	58	SW.	8	3	7	8	3	3	13	4	15	0	5	14	9	15	13	4	4	1	3	3	0	14	1	0
March	20.2	NW.	68	S.	8	5	8	3	3	11	8	13	11	0	11	6	14	14	13	3	0	0	0	1	0	10	3	0
April	18.4	NW.	56	S.	8	6	7	1	5	9	13	3	16	0	13	9	8	10	7	0	0	0	0	0	0	1	2	0
May	17.4	S.	52	E.	4	0	9	6	8	14	15	4	8	0	16	8	7	8	8	0	0	0	0	0	0	0	1	0
June	15.8	S.	45	S.	3	1	2	5	6	19	11	7	9	0	9	11	10	15	10	0	0	0	0	0	1	0	7	0
July	15.5	S.	43	NE.	4	7	10	3	8	12	13	4	5	0	13	7	11	15	14	0	0	0	1	0	0	0	6	0
August	15.9	S.	50	SE.	2	7	9	2	3	14	14	4	9	0	11	8	12	12	11	0	0	0	2	0	0	0	11	0
September	13.5	NE.	48	NE.	1	7	9	8	8	11	8	4	5	0	18	7	5	4	4	0	0	0	2	0	0	0	1	0
October	16.2	NW.	48	S.	3	8	3	1	4	9	15	6	16	0	18	5	8	6	6	0	0	0	1	0	0	0	1	0
November	15.7	NW.	45	NW.	1	7	1	1	1	4	13	14	18	1	13	11	6	6	3	1	0	0	0	0	0	7	1	0
December	15.4	NW.	60	NE.	3	13	4	5	5	5	4	10	16	0	4	5	22	12	10	4	4	0	6	2	0	15	0	0
Year	16.8	NW.	74	E.	54	75	77	44	57	115	134	82	144	2	142	95	128	127	107	16	11	1	16	11	1	70	34	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

AUGUSTA, GA.

[ϕ=33° 28′ N.; λ=81° 54′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.998	30.320	29.150	40.2	49.0	47.5	53.9	37.6	45.8	78	23	36	39	39	84	69	74	0.226	0.257	0.258	2.70	1.25	7.5	6.6	6.1	6.5
February	29.945	30.353	29.450	49.2	58.7	57.0	63.3	46.5	54.9	78	25	46	48	48	88	68	74	.332	.354	.361	5.05	1.70	7.4	6.8	6.4	6.9
March	29.923	30.250	29.430	52.4	63.8	60.5	67.6	47.5	57.6	83	33	48	49	49	84	61	69	.352	.369	.374	8.62	3.42	4.9	5.6	5.3	5.4
April	29.912	30.208	29.510	61.2	71.9	68.6	76.7	55.5	66.1	90	44	55	56	56	80	59	66	.450	.467	.454	3.03	1.41	6.9	6.3	4.9	5.7
May	29.777	30.151	29.350	69.1	77.7	73.7	81.4	63.6	72.5	91	54	63	64	65	81	65	74	.576	.612	.613	5.16	1.45	6.5	6.5	6.7	6.4
June	29.808	29.991	29.610	76.4	86.2	80.5	90.2	70.3	80.2	96	63	69	69	70	79	57	72	.714	.714	.738	4.28	1.59	5.1	5.0	6.2	5.5
July	29.860	30.041	29.670	77.8	86.9	79.9	90.5	72.2	81.4	98	67	72	71	72	82	61	76	.777	.762	.773	4.97	1.42	5.3	6.2	6.8	6.5
August	29.810	29.997	29.590	74.0	83.3	78.3	86.7	69.1	77.9	98	61	69	69	70	84	63	76	.702	.706	.726	3.97	1.74	6.3	6.4	5.4	6.5
September	29.809	30.050	29.680	71.2	84.1	76.5	87.3	66.9	77.1	98	58	65	65	66	81	54	70	.628	.635	.646	1.47	1.08	2.7	4.4	3.6	4.1
October	29.822	30.090	29.500	60.3	73.3	66.7	76.4	56.6	66.5	87	43	54	54	57	82	54	72	.450	.438	.484	6.50	2.79	4.3	4.0	4.9	5.0
November	29.965	30.280	29.360	49.3	63.9	57.9	67.2	46.6	56.9	80	28	44	49	49	84	59	72	.313	.374	.368	.49	.21	4.4	4.3	4.3	4.6
December	29.947	30.246	29.430	48.1	57.9	54.5	62.7	45.1	53.9	77	32	44	47	48	87	69	79	.310	.347	.350	3.36	1.12	6.5	7.0	6.0	7.1
Year	29.886	30.353	29.150	60.8	71.4	66.8	75.3	56.5	65.9	98	23	55	57	57	83	62	73	.496	.503	.512	49.60	3.42	5.6	5.8	5.6	5.8

BAKER, OREG.

[ϕ=44° 46′ N.; λ=117° 50′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	26.537	27.130	26.020	10.8	19.3	19.5	23.5	5.2	14.4	36	−16	8	13	14	89	76	77	0.064	0.079	0.081	0.61	0.23	5.3	5.6	6.4	6.0
February	26.386	26.830	25.800	21.4	29.1	28.7	32.0	17.2	24.6	41	−3	17	20	20	82	68	70	.096	.110	.110	.87	.27	6.9	6.8	6.6	6.3
March	26.396	26.890	26.000	26.5	37.3	37.1	40.3	23.0	31.6	55	2	22	26	27	82	62	66	.122	.140	.146	1.01	.20	5.7	6.1	7.0	6.0
April	26.453	26.800	25.990	33.2	45.8	47.1	49.9	31.4	40.6	66	22	28	28	29	80	51	52	.153	.153	.158	.71	.36	6.7	6.5	5.7	5.5
May	26.472	26.750	26.100	39.4	57.8	60.9	63.1	37.3	50.2	82	21	32	33	33	76	42	39	.186	.190	.194	.41	.21	4.3	4.8	4.5	4.4
June	26.431	26.700	26.200	49.5	73.8	75.1	79.0	47.6	63.3	91	40	40	44	44	72	37	37	.255	.296	.297	.61	.28	2.1	3.5	3.4	3.1
July	26.489	26.640	26.212	53.0	77.7	81.9	84.3	51.3	67.8	97	44	38	44	44	56	31	28	.231	.295	.299	.01	.01	1.6	2.0	2.9	3.2
August	26.443	26.620	26.226	54.7	76.3	78.3	82.0	52.4	67.2	96	40	45	46	46	70	36	34	.300	.318	.308	1.06	.83	3.5	3.8	3.9	4.5
September	26.478	26.780	26.100	45.6	72.1	74.0	77.2	42.6	59.9	91	30	33	37	28	63	30	28	.191	.223	.215	.11	.07	2.3	1.8	2.4	2.4
October	26.450	26.780	26.040	39.9	59.6	58.5	63.9	35.3	49.6	80	20	30	32	33	70	37	41	.168	.184	.195	.40	.17	3.8	4.0	4.7	5.3
November	26.561	26.930	25.990	27.6	39.4	38.0	42.8	24.0	33.4	55	12	23	28	24	81	62	63	.124	.154	.148	.52	.35	3.4	4.9	4.0	5.6
December	26.431	26.867	25.860	21.6	28.5	27.1	31.7	16.9	24.3	47	−4	19	23	22	88	79	80	.118	.125	.120	1.74	.37	6.8	7.5	8.6	8.5
Year	26.461	27.130	25.800	35.3	51.4	52.2	55.8	32.0	43.9	97	−16	28	31	30	76	51	51	.167	.189	.189	8.06	.83	4.4	4.8	5.0	5.1

BALTIMORE, MD.

[ϕ=39° 17′ N.; λ=76° 37′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	30.064	30.590	28.673	28.9	34.6	33.3	38.5	25.9	32.2	61	13	20	21	22	67	57	61	0.114	0.124	0.122	4.88	2.06	6.0	6.4	4.3	5.1
February	30.015	30.500	29.350	34.3	40.3	39.3	45.7	31.2	38.4	74	8	28	28	28	76	61	65	.162	.162	.165	2.94	.81	6.5	6.3	5.3	6.2
March	29.986	30.582	29.220	41.0	48.6	46.0	52.4	37.3	44.8	78	24	32	33	34	71	58	65	.201	.206	.211	4.53	.99	6.5	5.8	5.5	6.2
April	29.957	30.390	29.110	53.0	59.4	57.8	64.2	47.3	55.8	89	34	39	37	40	60	47	54	.258	.246	.271	.88	.35	5.6	6.1	4.7	6.0
May	29.865	30.364	29.230	63.6	71.9	68.8	76.2	58.3	67.2	89	46	52	52	54	69	52	62	.407	.395	.434	4.00	1.22	5.0	4.9	5.5	5.1
June	29.838	30.050	29.440	72.0	79.2	75.8	82.9	67.3	75.1	93	59	63	64	65	76	61	71	.594	.606	.630	4.45	1.30	5.8	6.5	6.9	6.2
July	29.892	30.100	29.580	73.9	81.9	76.5	84.8	69.1	77.0	95	61	66	66	67	77	60	74	.648	.649	.673	7.28	2.54	5.6	6.3	6.3	6.2
August	29.864	30.190	29.520	70.6	79.0	74.7	82.4	65.8	74.1	92	59	63	62	64	76	57	70	.580	.562	.601	1.11	.55	5.0	6.3	5.1	5.4
September	29.993	30.360	29.650	65.9	75.9	71.6	79.4	62.2	70.8	95	47	59	59	60	78	57	68	.516	.524	.540	2.69	1.16	5.1	4.6	2.8	4.5
October	29.891	30.350	29.420	55.6	66.4	61.4	69.6	51.6	60.6	91	37	46	47	49	72	51	65	.342	.351	.380	5.58	5.30	4.4	4.2	2.3	4.2
November	29.968	30.370	29.400	44.8	53.5	48.8	56.7	41.3	49.0	72	29	36	36	37	71	53	65	.221	.230	.237	.44	.23	4.7	5.2	3.9	5.2
December	30.026	30.530	29.220	34.1	39.7	38.3	43.6	31.1	37.4	61	16	27	30	29	75	68	71	.154	.170	.167	3.43	1.18	6.4	6.1	4.2	6.9
Year	29.947	30.590	28.673	53.1	60.9	57.7	64.7	49.0	56.9	95	8	44	45	46	72	57	66	.350	.352	.369	42.51	5.36	5.6	5.7	4.7	5.7

BINGHAMTON, N. Y.

[ϕ=42° 06′ N.; λ=75° 55′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.200	29.740	28.240	17.0	25.2	....	30.6	11.8	21.2	54	−13	14	16	....	87	66	....	0.089	0.097	.....	1.85	0.84	6.8	5.1	....	5.8
February	29.137	29.640	28.380	26.0	32.2	....	37.4	20.6	29.0	65	−10	21	23	....	81	67	....	.122	.134	.....	1.12	.25	8.0	7.0	....	7.4
March	29.148	29.690	28.400	31.4	39.8	....	45.1	27.4	36.2	70	11	27	28	....	82	64	....	.154	.165	.....	3.95	.62	7.7	7.3	....	7.4
April	29.104	29.530	28.280	42.1	51.0	....	56.7	36.8	46.8	82	25	36	37	....	79	62	....	.223	.238	.....	2.54	.65	6.0	6.3	....	6.3
May	29.076	29.529	28.420	55.7	68.9	....	73.4	48.2	60.8	85	29	48	50	....	74	52	....	.339	.364	.....	2.35	.72	4.1	4.7	....	4.6
June	29.039	29.264	28.540	64.5	72.9	....	76.8	57.3	67.0	87	44	58	59	....	81	64	....	.501	.512	.....	5.87	1.04	7.0	7.6	....	6.9
July	29.106	29.303	28.770	66.8	75.7	....	80.8	59.6	70.2	95	45	60	60	....	81	59	....	.535	.519	.....	2.90	1.08	4.9	6.1	....	5.1
August	29.077	29.424	28.680	61.5	74.1	....	77.6	57.3	67.4	92	45	57	58	....	87	60	....	.481	.500	.....	6.63	2.48	7.4	6.4	....	5.6
September	29.200	29.520	28.850	56.4	71.1	....	76.1	52.9	64.5	90	34	54	55	....	90	61	....	.430	.475	.....	4.13	2.04	7.5	4.7	....	4.9
October	29.062	29.520	28.570	46.5	58.8	....	62.9	41.3	52.1	87	23	41	44	....	83	58	....	.287	.314	.....	1.95	.55	7.4	5.5	....	6.1
November	29.101	29.550	28.480	37.6	44.0	....	47.8	33.8	40.8	60	22	32	34	....	81	69	....	.191	.204	.....	1.04	.30	8.4	8.4	....	8.0
December	29.148	29.620	28.640	26.2	32.1	....	36.1	20.5	28.3	58	0	21	23	....	81	69	....	.119	.129	.....	2.13	.72	7.8	6.6	....	7.3
Year	29.116	29.740	28.240	44.3	53.8	....	58.4	39.0	48.7	95	−13	39	41	....	82	63	....	.289	.304	.....	36.36	2.48	6.9	6.3	....	6.4

Annual meteorological summary for the year ending December 31, 1922—Continued.

AUGUSTA, GA.

[H_b=180 ft.; h_t=62 ft.; h_r=54 ft.; h_a=77 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	6.6	NE.	25	NW.	0	7	16	6	2	9	4	2	15	1	8	9	14	10	10	1	1	0	1	1	0	12	0	0
February	6.1	S.	25	NW.	0	4	10	4	7	9	6	2	13	1	4	9	15	11	9	1	0	0	2	0	0	4	2	0
March	6.8	S.	34	W.	0	0	6	6	14	12	2	10	10	2	11	10	10	14	14	0	0	1	1	0	0	0	5	0
April	6.1	S.	24	N.	0	5	7	6	8	9	7	7	8	3	9	10	11	7	6	0	0	0	0	0	1	0	2	0
May	5.6	E.	24	NE.	0	2	13	11	9	8	7	2	8	2	6	12	13	13	12	0	0	0	1	0	3	0	5	0
June	4.4	S.	34	E.	0	2	9	7	4	14	9	8	7	0	7	16	7	12	10	0	0	0	0	0	17	0	11	0
July	4.6	S.	32	W.	0	3	2	8	9	13	15	6	6	0	4	17	10	17	11	0	0	0	0	0	18	0	18	0
August	4.2	E.	23	SW.	0	3	16	13	6	11	3	3	4	3	7	10	14	11	10	0	0	1	0	0	11	0	7	0
September	4.8	E.	26	NW.	0	6	14	16	1	7	0	0	11	5	14	13	3	4	2	0	0	0	0	0	11	0	2	0
October	4.6	E.	19	NE.	0	9	13	15	1	5	3	1	11	4	14	7	10	9	9	0	0	0	1	0	0	0	3	0
November	4.3	NW.	21	N.	0	2	14	6	4	1	5	2	19	7	13	12	5	5	5	1	1	0	1	0	0	2	0	0
December	5.4	E.	26	W.	0	7	8	9	10	7	12	4	5	0	6	6	19	12	9	0	0	0	7	0	0	1	2	0
Year	5.3	S.	34	W.	0	50	128	107	75	105	73	47	117	28	103	131	131	125	107	3	2	2	14	1	61	19	57	0

BAKER, OREG.

[H_b=3,471 ft.; h_t=48 ft.; h_r=40 ft.; h_a=53 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	5.8	SE.	21	NW.	0	0	6	2	32	6	2	8	6	0	7	8	16	11	7	18	11	0	5	28	0	31	0	0
February	6.2	SE.	25	SE.	0	5	1	2	27	8	3	6	3	1	4	9	15	16	9	20	14	0	0	13	0	28	0	0
March	7.0	SE.	23	SE.	0	5	2	1	30	8	6	6	4	0	8	11	12	16	10	13	8	0	0	4	0	26	0	0
April	7.1	SE.	36	NW.	0	12	2	0	20	6	5	3	12	0	6	16	8	9	5	11	5	0	0	0	0	18	0	0
May	6.7	NW.	27	NW.	0	6	3	2	22	1	2	4	22	0	16	4	11	6	3	1	1	0	0	0	0	5	0	0
June	5.9	SE.	30	SW.	0	4	1	3	28	4	2	5	13	0	17	9	4	5	5	0	0	0	0	0	2	0	4	0
July	5.8	NW.	20	NW.	0	5	0	2	28	1	2	4	20	0	17	13	1	1	0	0	0	0	0	0	5	0	1	0
August	5.9	SE.	25	SE.	0	4	4	1	30	3	2	4	14	0	13	15	3	8	3	0	0	1	0	0	5	0	6	0
September	5.9	SE.	21	SE.	0	3	0	0	29	7	0	6	15	0	22	5	3	3	1	0	0	0	0	0	1	2	0	0
October	6.4	SE.	30	SW.	0	5	1	2	25	13	5	5	6	0	13	6	12	5	3	0	0	0	0	0	0	11	1	0
November	5.7	SE.	25	NW.	0	2	1	1	34	5	5	5	7	0	12	4	14	5	3	3	0	0	1	1	0	28	0	0
December	6.4	SE.	30	S.	0	3	1	5	31	10	4	4	4	0	0	6	25	15	13	18	14	0	3	14	0	30	0	0
Year	6.2	SE.	36	NW.	0	54	22	21	336	72	38	60	126	1	135	106	124	100	62	84	53	1	9	60	13	179	12	0

BALTIMORE, MD.

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

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	6.5	N.	41	NE.	1	18	10	3	3	8	8	2	10	0	10	4	17	11	6	6	5	0	0	8	0	24	0	0
February	6.0	N.	29	SW.	0	11	9	5	6	11	5	3	6	0	6	10	12	15	14	5	3	0	4	2	0	13	1	0
March	6.7	NW.	26	NE.	0	6	12	10	4	8	5	6	10	1	9	5	17	16	11	2	1	0	1	1	0	8	2	0
April	6.4	SW.	31	SW.	0	13	4	6	5	10	5	7	10	0	7	11	12	9	6	0	0	0	0	0	0	0	2	0
May	6.1	S.	30	SW.	0	5	11	3	8	18	9	2	6	0	12	9	10	11	7	0	0	1	0	0	0	0	4	0
June	5.8	S.	23	SW.	0	8	7	2	6	14	11	5	7	0	7	10	13	13	12	0	0	0	0	0	4	0	8	0
July	5.6	S.	30	E.	0	11	9	3	8	16	8	4	3	0	6	13	12	15	12	0	0	1	0	0	8	0	11	0
August	5.4	SW.	20	NE.	0	13	9	7	1	10	16	1	4	1	10	12	9	13	6	0	0	0	1	0	3	0	7	0
September	5.0	E.	16	S.	0	12	10	7	8	9	6	2	2	4	13	10	7	4	4	0	0	0	2	0	1	0	3	0
October	5.3	SW.	22	SW.	0	11	4	2	8	10	14	5	6	2	16	7	8	6	5	0	0	0	0	0	2	0	1	0
November	5.1	W.	20	W.	0	6	3	1	6	8	16	8	9	3	13	6	11	4	2	3	0	0	3	0	0	4	0	0
December	5.3	N.	24	NE.	0	12	9	8	4	8	6	6	7	2	5	8	18	12	10	4	1	0	6	2	0	19	0	0
Year	5.8	S.	41	NE.	1	126	97	57	67	130	109	51	80	13	114	105	146	129	95	20	10	2	17	13	18	68	39	0

BINGHAMTON, N. Y.

[H_b=871 ft.; h_t=10 ft.; h_r=3 ft.; h_a=84 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	6.2	NW.	30	W.	0	2	12	3	1	0	3	4	6	0	10	10	11	9	7	14	6	0	0	17	0	29	0	0
February	6.9	NW.	28	S.	0	1	7	3	3	2	1	3	8	0	3	8	17	12	7	16	7	0	0	8	0	25	0	0
March	6.2	NW.	24	NW.	0	0	7	5	2	1	1	6	9	0	3	8	20	15	13	14	9	0	0	5	0	23	1	0
April	7.0	NW.	31	W.	0	2	6	1	3	1	4	8	5	0	7	7	16	14	11	5	0	0	0	0	0	10	4	0
May	5.3	NW.	26	W.	0	4	7	5	3	2	3	3	4	0	15	7	9	8	7	0	0	0	0	0	0	1	2	0
June	4.6	W.	29	N.	0	1	2	7	1	2	3	8	5	1	4	11	15	15	13	0	0	1	0	0	0	0	9	0
July	3.8	NE.	16	SW.	0	4	7	5	3	0	2	6	3	1	13	8	10	7	7	0	0	0	0	0	1	0	4	0
August	3.9	E.	23	NW.	0	2	7	9	0	1	2	5	3	2	8	9	14	16	11	0	0	2	4	0	2	0	8	0
September	3.8	E.	28	N.	0	0	12	6	2	2	2	4	2	0	14	7	9	9	7	0	0	1	10	0	0	0	4	0
October	5.7	NW.	30	NW.	0	3	4	7	2	1	3	6	5	0	11	5	15	8	6	3	0	0	5	0	0	9	0	0
November	5.8	NW.	24	NW.	0	1	5	3	2	0	2	9	8	0	2	9	19	12	9	9	5	0	0	2	0	12	0	0
December	6.3	NW.	25	NW.	0	2	9	6	2	2	3	3	4	0	5	8	18	12	8	13	6	0	1	13	0	27	0	
Year	5.5	NW.	31	W.	0	22	85	60	24	14	29	65	62	4	95	97	173	137	106	74	33	4	20	45	3	136	32	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

BIRMINGHAM, ALA.

[ϕ=33° 32′ N.; λ=86° 50′ W.]

Month.	Pressure.			Temperature.								Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.416	29.670	28.600	41.4	48.4	47.1	53.6	38.2	45.9	74	23	34	37	38	77	66	72	0.215	0.233	0.245	6.20	2.07	6.8	7.2	7.4	7.4
February	29.379	29.810	28.920	47.2	56.2	54.4	61.1	44.4	52.8	78	22	41	42	43	79	62	67	.285	.298	.302	5.02	1.51	6.6	7.0	6.3	7.0
March	29.342	29.633	28.840	49.8	60.4	57.6	64.8	45.9	55.4	77	29	42	44	43	76	58	61	.296	.319	.299	7.14	2.16	5.9	6.1	5.5	6.0
April	29.337	29.720	28.930	59.5	71.4	69.2	75.9	56.4	66.2	85	39	53	53	52	79	54	56	.425	.417	.402	6.64	2.62	5.6	6.0	5.7	5.8
May	29.224	29.542	28.860	66.7	77.6	71.9	80.8	62.5	71.6	89	52	61	61	61	83	60	69	.548	.549	.536	3.42	.97	6.3	7.0	7.0	6.9
June	29.278	29.439	29.080	73.1	84.6	78.9	87.6	68.6	78.1	96	64	67	67	67	82	58	70	.665	.669	.674	3.82	1.46	4.2	6.1	6.1	5.6
July	29.330	29.490	29.160	73.8	85.0	79.7	89.2	69.8	79.5	94	59	69	68	68	85	58	69	.712	.694	.693	5.23	1.85	2.6	6.4	5.9	5.3
August	29.270	29.450	29.080	72.0	85.9	80.0	90.0	68.8	79.4	98	60	66	66	65	81	54	62	.639	.650	.625	2.95	.85	3.9	5.0	4.5	4.9
September	29.323	29.472	29.140	69.8	86.8	78.2	90.4	67.2	78.8	99	58	62	61	62	77	43	58	.567	.551	.559	1.54	.47	2.7	4.3	2.4	3.8
October	29.272	29.474	28.990	57.6	73.7	66.5	77.0	54.6	65.8	88	40	50	52	50	76	49	58	.383	.405	.390	1.81	1.66	4.4	5.0	3.2	4.6
November	29.420	29.640	28.770	48.8	63.0	58.0	66.4	46.5	56.4	80	30	42	42	43	77	49	59	.296	.305	.306	2.59	1.22	4.0	3.7	3.3	3.9
December	29.371	29.650	28.790	48.9	56.4	54.7	61.3	45.0	53.2	77	28	44	47	46	85	72	75	.320	.340	.339	7.63	3.19	7.0	7.0	5.9	7.1
Year	29.330	29.810	28.600	59.0	70.8	66.4	74.8	55.7	65.3	99	22	53	53	53	80	57	65	.446	.452	.448	53.99	3.19	5.0	5.9	5.3	5.7

BISMARCK, S. DAK.

[ϕ=46° 47′ N.; λ=100° 38′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	28.276	28.960	27.670	4.9	12.4	10.9	19.1	−2.4	8.4	40	−32	2	8	7	87	79	82	0.053	0.066	0.066	0.34	0.08	5.5	5.1	5.4	5.5
February	28.335	28.990	27.630	−2.8	7.0	5.1	12.6	−8.3	2.2	35	−26	−5	3	2	89	80	85	.034	.048	.047	1.55	.69	5.5	5.1	5.4	4.9
March	28.231	28.840	27.840	22.3	31.9	30.4	35.5	19.1	27.3	55	−18	19	23	24	86	69	77	.106	.124	.133	.70	.37	6.6	5.2	6.3	5.4
April	28.233	28.620	27.700	35.8	50.9	50.6	55.6	33.9	44.8	75	17	32	33	32	86	54	51	.183	.191	.182	.68	.53	5.4	5.7	7.8	5.9
May	28.136	28.600	27.540	50.8	63.6	64.3	67.8	47.5	57.6	83	36	45	45	46	80	54	55	.307	.312	.323	2.65	.59	6.8	5.7	5.2	5.6
June	28.187	28.550	27.770	59.0	72.4	73.6	77.2	55.3	66.2	95	44	53	55	57	82	58	60	.413	.446	.484	3.24	1.02	6.0	4.4	3.9	4.3
July	28.240	28.490	27.720	59.3	76.0	76.5	80.2	55.6	67.9	95	40	54	57	56	83	54	51	.431	.476	.458	2.77	1.40	3.7	4.7	4.6	4.6
August	28.192	28.430	27.940	61.3	80.7	82.2	86.2	59.1	72.6	100	47	54	55	56	77	45	43	.422	.445	.472	.22	.13	2.9	3.3	3.3	3.5
September	28.517	28.710	27.827	51.4	69.5	67.2	74.4	48.5	61.4	98	35	45	48	50	79	51	56	.305	.352	.366	1.93	.81	4.4	3.9	3.1	3.9
October	28.294	28.600	27.730	37.6	56.8	51.9	61.1	34.0	47.6	91	20	30	33	34	76	46	55	.167	.193	.204	.63	.43	4.1	4.0	3.7	4.4
November	28.264	28.870	27.620	30.3	37.0	33.9	39.7	26.8	33.2	52	11	27	30	29	88	75	81	.152	.167	.161	1.51	.86	6.8	7.7	7.1	7.5
December	28.231	28.650	27.770	8.6	17.5	12.9	22.1	3.9	13.0	45	−21	6	10	9	87	71	84	.068	.081	.079	.94	.67	3.4	5.6	4.3	5.4
Year	28.254	28.990	27.540	34.9	48.0	46.6	52.6	31.1	41.8	100	−32	30	33	34	83	61	65	.220	.242	.248	17.16	1.40	5.1	5.0	5.0	5.1

BLOCK ISLAND, R. I.

[ϕ=41° 10′ N.; λ=71° 36′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	30.102	30.595	28.830	27.4	31.2	30.3	35.5	23.7	29.6	50	4	20	21	23	74	65	73	0.118	0.124	0.130	3.04	1.74	3.9	3.9	4.0	4.9
February	30.058	30.540	29.390	31.2	34.0	32.6	37.5	26.9	32.2	50	0	26	28	26	79	77	77	.145	.158	.150	3.16	.90	6.2	5.8	4.2	6.5
March	30.030	30.610	29.280	35.8	40.5	37.9	43.3	32.1	37.7	58	17	30	33	32	77	74	81	.171	.194	.190	4.75	.84	4.9	5.1	4.1	5.7
April	29.983	30.370	29.350	42.6	48.4	44.2	51.8	39.3	45.6	70	30	37	40	39	82	76	82	.228	.257	.240	2.79	1.17	4.3	4.5	3.5	5.1
May	29.962	30.444	29.520	54.6	59.7	53.6	62.2	48.9	55.6	72	42	51	54	50	88	82	89	.378	.418	.368	4.17	2.54	3.3	3.1	3.2	3.6
June	29.936	30.170	29.360	63.6	68.0	63.1	70.3	59.3	64.8	81	54	62	64	60	93	88	92	.549	.598	.527	2.68	.85	5.3	5.7	4.3	6.0
July	30.000	30.260	29.630	67.5	70.2	65.9	72.4	63.0	67.7	78	57	64	64	63	87	82	91	.595	.601	.584	1.82	.76	4.6	4.2	5.1	5.5
August	29.956	30.290	29.620	67.2	70.7	66.4	72.9	63.4	68.2	82	55	63	65	64	88	83	91	.589	.621	.592	9.53	2.88	6.1	5.5	5.6	5.9
September	30.092	30.453	29.640	63.2	67.8	63.1	69.5	59.5	64.5	80	46	58	58	59	84	72	86	.501	.502	.505	.84	.44	4.5	3.5	1.6	4.3
October	29.912	30.447	29.430	53.6	58.5	55.7	62.1	49.6	55.8	77	33	47	49	49	78	71	78	.359	.382	.376	2.94	1.40	4.3	3.8	3.5	5.2
November	29.961	30.370	29.280	42.8	46.7	44.7	49.1	38.9	44.0	59	25	36	37	37	75	70	74	.219	.233	.229	.54	.23	4.7	5.4	3.9	5.8
December	30.077	30.630	29.391	33.3	35.9	35.2	40.1	28.2	34.2	54	16	27	28	30	78	72	80	.157	.162	.173	2.67	.80	6.4	6.1	5.3	6.9
Year	30.008	30.630	28.830	48.6	52.6	49.4	55.6	44.4	50.0	82	0	43	45	44	82	76	83	.334	.354	.338	38.93	2.88	4.9	4.7	4.0	5.4

BOISE, IDAHO.

[ϕ=43° 37′ N.; λ=116° 13′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	27.315	27.935	26.710	18.2	24.5	25.0	28.0	13.3	20.6	45	−10	14	15	18	83	66	71	0.084	0.088	0.098	0.90	0.43	5.8	7.2	6.2	6.9
February	27.157	27.640	26.630	29.1	34.3	36.0	38.4	25.4	31.9	51	8	22	23	23	75	62	60	.123	.123	.127	1.09	.34	6.8	8.0	6.1	7.4
March	27.162	27.710	26.740	33.8	42.0	44.2	47.0	30.7	38.8	63	17	26	26	27	73	53	50	.144	.143	.148	2.36	.54	6.1	7.6	6.6	7.0
April	27.160	27.590	26.670	37.1	50.2	53.4	55.4	34.5	45.0	70	27	29	28	28	72	44	39	.159	.154	.155	1.51	.50	4.6	5.7	4.6	5.1
May	27.168	27.460	26.730	45.6	63.3	66.8	69.4	43.3	56.4	88	28	37	34	35	73	36	34	.225	.204	.210	1.36	.97	3.5	4.1	4.1	3.6
June	27.106	27.420	26.900	57.3	79.1	83.2	85.0	55.6	70.3	99	47	44	41	40	63	29	26	.293	.265	.258	.57	.50	2.0	2.5	2.6	2.2
July	27.156	27.320	26.873	62.0	84.7	89.4	91.1	60.1	75.8	104	53	44	42	40	54	24	19	.300	.275	.254	.19	.19	2.0	2.1	2.7	2.4
August	27.110	27.350	26.870	63.7	82.5	86.2	88.6	60.3	74.4	99	48	48	46	45	59	30	26	.343	.317	.313	1.13	.38	4.4	2.9	2.7	3.4
September	27.171	27.490	26.830	54.2	75.9	80.0	81.9	50.2	66.0	96	33	37	37	38	53	27	24	.221	.228	.239	.01	.01	1.4	1.5	1.2	1.6
October	27.155	27.530	26.750	46.0	64.6	65.0	69.8	42.6	56.2	96	26	32	32	36	81	32	36	.185	.186	.213	.52	.34	2.5	3.3	4.6	3.8
November	27.301	27.680	26.660	31.5	43.9	43.0	46.8	27.2	37.0	58	17	26	27	28	79	51	56	.139	.145	.156	.52	.29	2.3	4.3	3.3	4.5
December	27.226	27.670	26.620	28.3	33.1	32.0	36.6	23.5	30.0	55	−2	22	23	23	78	66	69	.124	.127	.124	1.73	.49	6.6	8.2	7.4	8.5
Year	27.182	27.935	26.620	42.2	56.5	58.7	61.5	38.9	50.2	104	−10	32	31	32	69	43	42	.195	.188	.191	12.00	.97	4.0	4.8	4.3	4.7

Annual meteorological summary for the year ending December 31, 1922—Continued.

BIRMINGHAM, ALA.

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

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	8.2	N.	29	S.	0	11	7	13	7	10	4	2	8	0	4	10	17	12	11	0	0	0	0	0	0	5	0	0
February	8.6	S.	27	SE.	0	13	5	3	7	17	2	1	8	0	6	6	16	11	10	1	1	0	1	0	0	5	2	0
March	10.2	SE.	44	SE.	1	6	3	4	20	11	1	3	14	0	8	10	13	15	12	0	0	0	0	0	0	2	5	0
April	8.3	S.	34	S.	0	10	5	3	9	23	3	4	2	1	8	13	9	9	6	0	0	0	0	0	0	0	3	0
May	6.1	E.	35	SE	0	5	8	15	12	8	6	5	3	0	3	14	14	16	12	0	0	0	0	0	0	0	11	0
June	4.4	S.	24	NW.	0	8	9	7	2	13	8	4	9	0	7	14	9	11	7	0	0	0	0	0	10	0	12	0
July	4.6	SW.	27	W.	0	10	2	4	4	18	15	4	5	0	5	20	6	13	8	0	0	1	0	0	16	0	17	0
August	5.1	E.	31	W.	0	13	14	12	5	9	7	2	0	0	9	15	7	9	7	0	0	1	0	0	16	0	7	0
September	4.8	E.	21	SE.	0	11	14	24	5	1	2	1	2	0	15	12	3	7	5	0	0	0	0	0	16	0	10	0
October	5.9	E.	18	SE.	0	14	18	10	6	4	3	3	4	0	13	8	10	3	3	0	0	0	0	0	0	0	1	0
November	6.9	N.	30	NW.	0	21	2	7	15	5	1	3	6	0	15	8	7	8	6	0	0	0	1	0	0	3	1	0
December	8.4	S.	38	SE.	0	10	3	6	11	12	15	1	4	0	7	3	21	14	12	0	0	0	2	0	0	5	2	0
Year	6.8	N.	44	SE.	1	132	90	108	103	131	67	33	65	1	100	133	132	128	99	1	1	2	4	0	58	20	71	0

BISMARCK, N. DAK.

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

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	9.0	NW.	44	NW.	2	7	2	11	5	5	1	10	19	2	11	9	11	6	4	18	6	0	0	27	0	31	0	0
February	9.9	NW.	40	NW.	1	2	4	7	6	3	2	10	21	1	10	9	9	5	5	16	5	0	0	27	0	28	0	1
March	10.2	E.	35	NW.	0	7	4	14	6	8	7	5	10	1	13	3	15	5	3	11	5	0	0	9	0	30	0	0
April	9.9	E.	55	SE.	2	9	7	12	10	3	1	5	12	1	9	9	12	6	2	3	2	0	0	0	0	14	1	1
May	10.9	NW.	42	NW.	1	3	6	12	8	2	3	11	17	0	8	10	13	19	14	0	0	2	0	0	0	0	6	0
June	8.0	E.	38	W.	0	7	4	15	9	7	1	5	10	2	15	9	6	12	11	0	0	1	0	0	3	0	8	1
July	6.8	NW.	38	NW.	0	5	6	11	7	2	2	8	20	1	12	16	3	10	9	0	0	1	1	0	5	0	7	0
August	8.4	E.	42	NW.	1	9	4	13	8	7	1	4	15	1	16	13	2	5	2	0	0	0	0	0	12	0	2	0
September	7.4	NW.	46	NW.	1	8	1	13	11	5	0	5	17	0	19	5	6	7	7	0	0	2	0	0	3	0	4	1
October	8.0	NW.	36	NW.	0	9	4	10	5	3	1	5	23	2	13	10	8	4	4	4	2	0	0	0	1	15	0	0
November	9.3	NW.	42	NW.	3	7	5	10	1	3	2	10	21	1	5	6	19	8	6	9	3	0	2	4	0	22	0	0
December	8.1	W.	35	NW.	0	3	8	5	6	2	4	18	14	2	6	17	8	6	5	9	6	0	0	19	0	30	0	0
Year	9.8	NW.	55	SE.	11	76	55	133	82	50	25	96	199	14	137	116	112	93	72	70	29	6	3	86	24	170	28	4

BLOCK ISLAND, R. I.

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

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	22.8	NW.	70	NE.	11	9	9	2	1	0	13	7	21	0	12	9	10	11	8	7	6	0	2	8	0	28	0	0
February	19.1	NW.	55	NW.	13	4	4	7	2	4	14	4	17	0	8	5	15	12	8	5	5	0	3	4	0	21	0	0
March	19.9	SW.	48	E.	12	3	6	4	3	5	17	10	14	0	12	6	13	12	11	5	3	0	3	2	0	15	0	0
April	17.6	SW.	52	W.	6	3	4	0	4	6	19	11	13	0	13	4	13	11	6	1	0	0	6	0	0	3	1	0
May	16.7	SW.	40	NE.	2	0	5	5	10	6	26	7	3	0	16	9	6	7	5	0	0	0	5	0	0	0	0	0
June	14.6	SW.	46	SW.	2	0	3	3	4	13	29	4	4	0	8	9	13	12	9	0	0	0	12	0	0	0	3	0
July	14.1	SW.	36	NE.	0	2	11	3	8	6	29	0	3	0	12	5	14	9	7	0	0	0	9	0	0	0	2	0
August	14.7	SW.	36	SW.	0	3	10	2	5	7	26	3	6	0	11	4	16	12	9	0	0	0	1	0	0	0	8	0
September	12.9	SW.	38	NW.	0	4	8	7	8	9	18	2	4	0	12	11	7	4	3	0	0	0	0	0	0	0	2	0
October	19.0	SW.	59	NW.	13	5	4	3	3	6	20	5	16	0	12	6	13	8	6	0	0	0	5	0	0	0	2	1
November	21.1	NW.	55	NW.	11	1	8	1	3	1	8	13	25	0	10	6	14	5	4	2	0	0	0	0	0	8	0	0
December	20.4	NW.	72	NE.	9	10	8	3	5	4	9	10	13	0	7	6	18	11	10	5	4	0	3	5	0	21	0	0
Year	17.7	SW.	72	NE.	79	44	80	40	56	67	228	76	139	0	133	80	152	114	86	25	18	0	49	19	0	96	18	1

BOISE, IDAHO.

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

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	4.5	W.	29	SE.	0	6	2	5	9	3	3	17	16	1	9	3	19	7	6	17	7	0	3	21	0	31	0	0
February	5.8	SE.	31	SE.	0	7	3	7	17	6	1	5	9	1	5	5	18	13	7	20	9	0	1	2	0	23	0	0
March	7.2	SE.	27	E.	0	6	5	6	24	6	0	4	10	1	5	9	17	14	11	6	4	1	0	0	0	18	0	1
April	6.6	NW.	33	W.	0	8	1	4	10	6	1	8	17	5	11	8	11	11	9	9	5	2	0	0	0	11	1	0
May	5.6	NW.	28	NW.	0	5	3	5	8	6	1	8	20	6	19	6	6	8	5	2	1	0	0	0	0	2	1	0
June	4.6	NW.	26	W.	0	6	1	7	14	5	2	10	13	2	23	3	4	5	2	0	0	0	0	0	10	0	2	0
July	4.2	NW.	20	W.	0	4	3	1	15	3	4	12	14	6	22	7	2	1	1	0	0	0	0	0	17	0	1	0
August	5.0	SE.	29	SW.	0	3	2	3	12	6	1	10	16	9	19	8	4	6	4	0	0	0	0	0	15	0	7	0
September	4.0	SE.	24	NW.	0	2	3	2	13	1	0	10	25	4	24	6	0	1	0	0	0	0	0	0	7	0	0	0
October	5.0	SE.	39	W.	0	6	3	2	15	7	4	7	12	6	18	6	7	3	2	0	0	0	0	0	0	1	2	0
November	3.8	SE.	21	SE.	0	6	2	4	14	4	1	9	17	3	14	8	8	4	4	2	0	0	3	0	0	25	0	0
December	5.5	SE.	29	SE.	0	8	2	10	16	5	0	7	10	4	2	5	24	14	9	16	7	0	6	10	0	24	0	0
Year	5.2	SE.	39	W.	0	67	30	56	167	58	18	107	179	48	171	74	120	87	60	72	33	3	13	33	49	135	14	1

Annual meteorological summary for the year ending December 31, 1922—Continued.

BOSTON, MASS.

[ϕ=42° 21′ N.; λ=71° 04′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.990	30.480	28.740	23.8	29.9	29.2	34.1	20.3	27.2	51	0	13	15	17	63	53	58	0.089	0.097	0.105	1.41	1.08	3.5	4.5	3.8	4.6
February	29.947	30.430	29.210	29.2	34.0	33.2	39.8	24.3	32.0	56	−4	21	22	22	70	63	62	.123	.131	.130	2.64	.62	6.7	6.2	5.1	6.8
March	29.928	30.460	29.200	36.4	43.7	40.8	47.8	31.8	39.8	79	14	26	26	28	66	53	61	.152	.157	.159	4.35	1.36	4.7	5.7	5.2	5.9
April	29.869	30.250	29.260	47.3	53.0	49.8	57.7	39.7	48.7	85	29	36	39	38	67	61	65	.226	.253	.233	2.48	1.47	4.7	5.1	4.4	5.1
May	29.867	30.329	29.480	60.5	66.3	61.9	70.9	52.0	61.4	86	43	48	50	51	65	60	70	.342	.380	.380	5.34	3.28	3.7	4.4	3.8	3.9
June	29.829	30.080	29.220	67.0	72.5	68.7	76.5	60.8	68.6	92	52	60	62	60	79	72	76	.518	.560	.531	8.05	3.64	5.9	6.6	6.8	6.5
July	29.893	30.160	29.580	70.0	76.0	70.8	79.6	64.4	72.0	93	58	60	61	62	71	61	76	.525	.546	.575	2.63	1.06	5.5	4.7	5.7	5.2
August	29.852	30.220	29.480	68.7	73.8	70.0	77.4	63.4	70.4	93	54	60	59	61	74	63	76	.520	.516	.550	4.75	2.15	5.6	6.2	6.2	5.9
September	29.991	30.376	29.550	62.5	69.7	65.5	73.2	57.1	65.2	84	42	54	54	56	73	60	71	.431	.448	.462	3.66	1.52	4.9	4.2	2.4	4.2
October	29.829	30.370	29.310	51.3	60.5	55.1	63.9	46.3	55.1	87	28	42	44	44	72	57	67	.300	.323	.323	1.97	.99	4.0	4.8	4.1	4.7
November	29.845	30.227	29.150	41.4	47.6	43.9	50.1	37.4	43.8	66	24	31	32	32	66	57	63	.184	.193	.185	.84	.41	4.5	5.7	5.3	6.3
December	29.984	30.540	29.470	29.3	33.6	31.9	37.3	24.5	30.9	61	8	22	25	25	75	70	74	.128	.142	.149	3.01	.92	6.7	6.6	5.5	7.3
Year	29.902	30.540	28.740	49.0	55.0	51.7	59.0	43.5	51.3	93	−4	39	41	41	70	61	68	.295	.312	.314	41.13	3.64	5.0	5.4	4.9	5.5

BROKEN ARROW, OKLA.

[ϕ=36° 02′ N.; λ=95° 49′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.326	29.760	28.760	30.1	38.3	....	43.5	26.6	35.0	65	10	25	27	....	80	64	....	0.145	0.157	....	2.54	1.98	6.2	6.8	....	6.5
February	29.243	29.710	28.780	35.7	46.7	....	52.8	31.9	42.4	78	12	29	31	....	74	55	....	.180	.191	....	1.18	.65	5.0	6.5	....	6.0
March	29.164	29.570	28.685	41.3	51.6	....	58.2	38.8	48.5	76	12	36	39	....	82	65	....	.232	.259	....	4.31	1.22	5.9	6.2	....	5.9
April	29.112	29.642	28.590	54.7	64.3	....	68.8	51.4	60.1	79	36	50	50	....	86	64	....	.382	.384	....	5.63	1.21	5.9	6.7	....	6.1
May	29.096	29.310	28.750	62.7	73.3	....	77.0	59.7	68.4	86	51	59	59	....	89	67	....	.512	.547	....	6.37	1.56	6.5	7.2	....	6.1
June	29.173	29.360	28.940	71.0	83.0	....	86.6	67.2	76.9	95	54	66	65	....	86	56	....	.651	.629	....	1.01	.42	5.2	6.0	....	5.2
July	29.180	29.430	28.940	72.4	84.0	....	88.0	70.4	79.2	97	58	69	71	....	89	65	....	.708	.753	....	7.89	3.11	5.3	6.2	....	5.0
August	29.163	29.330	28.940	72.0	86.6	....	90.9	68.5	80.2	104	61	68	68	....	86	56	....	.677	.691	....	1.99	1.48	4.6	4.6	....	4.3
September	29.242	29.420	29.000	63.5	83.0	....	87.1	61.8	74.4	98	48	58	59	....	82	45	....	.494	.514	....	.66	.63	2.2	2.4	....	2.0
October	29.200	29.550	28.830	50.9	70.9	....	75.5	49.8	62.6	90	32	44	46	....	79	44	....	.312	.338	....	2.06	1.07	2.9	3.4	....	3.1
November	29.306	29.620	28.810	42.4	57.2	....	61.7	40.1	50.9	80	29	38	38	....	84	51	....	.236	.241	....	4.77	3.19	5.1	4.0	....	4.3
December	29.254	29.685	28.780	36.5	47.7	....	52.9	31.5	42.2	74	18	31	32	....	81	56	....	.195	.202	....	1.72	1.38	6.2	6.0	....	5.7
Year	29.204	29.760	28.590	52.8	65.6	....	70.2	49.9	60.1	104	10	48	49	....	83	57	....	.394	.409	....	40.13	3.19	5.1	5.5	....	5.0

BUFFALO, N. Y.

[ϕ=42° 53′ N.; λ=78° 53′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.295	29.850	28.670	21.2	24.8	24.3	29.9	16.5	23.2	52	3	16	18	17	81	73	71	0.096	0.100	0.099	1.44	0.42	7.1	7.0	5.6	7.4
February	29.231	29.790	28.520	26.4	29.1	27.2	34.1	20.1	27.1	60	0	22	22	22	80	75	80	.121	.126	.125	2.01	.34	8.5	7.8	7.1	8.2
March	29.234	29.700	28.492	32.0	35.5	36.2	42.6	27.8	35.2	65	16	27	28	29	89	76	75	.151	.159	.163	3.61	.82	7.0	7.0	5.5	7.1
April	29.219	29.660	28.410	42.5	46.4	45.5	53.1	36.6	44.8	72	25	37	39	41	82	76	85	.233	.248	.268	1.56	.67	7.1	6.3	5.2	6.6
May	29.165	29.593	28.400	56.6	62.7	61.5	68.6	51.8	60.2	88	43	48	50	52	76	66	72	.345	.364	.387	2.01	1.02	4.8	5.1	5.0	5.5
June	29.153	29.406	28.640	62.9	66.6	66.0	71.7	58.2	65.0	85	47	55	57	57	77	73	75	.444	.474	.480	3.38	1.09	6.5	6.2	5.4	6.3
July	29.201	29.440	28.920	67.9	72.6	71.8	77.0	63.2	70.1	91	54	60	59	59	74	65	65	.514	.516	.509	2.52	.91	5.9	5.5	4.8	5.7
August	29.176	29.520	28.740	66.1	71.1	69.8	74.8	61.6	68.2	86	55	58	60	59	76	69	71	.488	.529	.519	4.62	2.39	5.3	5.2	4.2	5.4
September	29.285	29.590	29.000	62.0	66.9	65.6	71.1	57.8	64.4	86	42	56	59	58	80	77	77	.458	.523	.497	1.25	.76	5.5	5.3	3.4	4.9
October	29.159	29.650	28.650	49.4	53.6	52.9	58.8	45.0	51.9	80	28	43	46	44	79	76	74	.298	.335	.322	2.70	1.32	6.5	5.7	4.5	5.5
November	29.201	29.670	28.670	39.8	43.5	43.2	47.5	36.5	42.0	64	22	37	39	38	88	85	83	.225	.253	.243	1.68	.24	8.6	8.7	7.4	8.0
December	29.239	29.700	28.774	28.5	30.7	29.6	35.0	22.8	28.9	54	5	23	24	24	80	77	78	.132	.138	.131	3.23	1.93	8.0	7.8	7.6	7.5
Year	29.213	29.856	28.400	46.3	50.3	49.5	55.4	41.5	48.4	91	0	40	42	42	79	74	76	.293	.314	.312	29.41	2.39	6.7	6.5	5.5	6.5

BURLINGTON, VT.

[ϕ=44° 29′ N.; λ=73° 12′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.703	30.270	28.730	11.2	17.8	....	23.5	6.5	15.0	45	−15	6	10	....	78	69	....	0.064	0.073	....	1.26	0.53	4.5	5.3	....	5.0
February	29.631	30.140	28.810	18.5	23.1	....	30.3	11.8	21.0	51	−20	13	18	....	78	72	....	.089	.099	....	1.98	.73	7.5	5.5	....	6.3
March	29.638	30.200	28.850	29.2	35.5	....	39.8	24.2	32.0	60	6	22	23	....	74	61	....	.126	.132	....	2.88	.94	6.2	7.0	....	6.4
April	29.565	30.050	28.830	40.8	46.9	....	52.0	33.6	42.8	77	19	32	32	....	72	58	....	.195	.191	....	3.38	1.06	5.9	6.8	....	6.3
May	29.575	29.990	29.010	55.6	63.4	....	68.2	46.8	57.5	83	30	43	43	....	64	51	....	.284	.289	....	2.22	.88	4.2	4.8	....	4.5
June	29.484	29.741	28.890	63.3	68.8	....	73.2	56.7	65.0	87	45	57	58	....	82	70	....	.478	.490	....	9.92	2.14	7.0	7.0	....	6.9
July	29.573	29.794	29.310	67.9	74.5	....	78.0	58.5	68.2	89	49	60	59	....	75	60	....	.520	.504	....	.98	.51	5.0	4.7	....	4.6
August	29.543	29.911	29.090	64.4	72.0	....	75.5	56.8	66.2	87	44	57	57	....	77	61	....	.470	.481	....	4.14	1.17	5.7	5.1	....	5.1
September	29.669	30.010	29.210	57.6	66.2	....	70.6	50.3	60.4	84	34	51	53	....	80	64	....	.396	.424	....	2.21	1.30	5.0	4.1	....	4.0
October	29.511	30.000	28.940	45.3	51.4	....	55.8	38.0	46.9	81	20	39	40	....	78	64	....	.266	.272	....	1.98	.61	7.5	6.7	....	6.7
November	29.549	29.970	28.870	35.3	38.7	....	42.9	31.3	37.1	58	18	29	30	....	76	71	....	.169	.172	....	2.14	.79	8.7	8.6	....	8.7
December	29.657	30.120	29.230	19.5	23.7	....	30.0	13.9	22.0	56	−11	15	18	....	81	77	....	.092	.103	....	1.17	.50	7.9	8.2	....	7.6
Year	29.592	30.270	28.730	42.4	48.5	....	53.3	35.7	44.5	89	−20	35	37	....	76	65	....	.262	.269	....	34.26	2.14	6.3	6.2	....	6.1

Annual meteorological summary for the year ending December 31, 1922—Continued.

BOSTON, MASS.

[H_b=125 ft.; h_1=115 ft.; h_2=154 ft.; h_3=188 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	11.7	W.	52	NE.	2	9	2	0	3	1	10	20	17	0	12	10	9	4	3	10	3	0	1	10	0	30	0	0
February	9.9	W.	36	W.	0	6	2	4	3	5	11	16	9	0	7	5	16	11	9	12	7	0	2	4	0	22	0	0
March	8.7	NW.	36	S.	0	6	3	7	2	5	9	14	16	0	9	7	15	10	10	7	3	0	2	3	0	13	1	0
April	8.8	W.	35	E.	0	12	5	3	3	3	11	9	14	0	13	5	12	8	7	4	2	0	0	0	0	3	0	0
May	10.3	W.	36	SW.	0	6	3	10	5	7	12	10	9	0	12	13	5	4	4	0	0	0	0	0	0	0	1	0
June	9.4	SW.	39	W.	0	3	3	5	5	10	14	17	3	0	6	10	14	10	9	0	0	1	2	0	2	0	8	0
July	6.9	SW.	24	W.	0	7	6	8	5	4	22	8	2	0	12	8	11	11	10	0	0	0	0	0	3	0	7	0
August	8.0	SW.	26	SW.	0	5	9	9	2	2	19	9	7	0	11	6	14	13	10	0	0	0	1	0	3	0	3	0
September	8.2	SW.	26	W.	0	9	3	2	0	7	20	15	4	0	15	10	5	4	4	0	0	0	3	0	0	0	4	0
October	10.5	W.	36	W.	0	3	5	2	1	5	14	19	13	0	15	6	10	5	5	0	0	0	4	0	0	2	1	0
November	10.4	W.	35	W.	0	6	0	5	2	0	8	26	13	0	7	11	12	8	5	3	3	0	1	0	0	8	0	0
December	10.6	W.	35	W.	0	9	4	1	1	6	6	21	14	0	7	6	18	9	8	11	6	0	2	10	0	25	0	0
Year	9.4	W.	52	NE.	2	81	45	56	32	55	156	184	121	0	127	97	141	97	84	47	24	1	18	27	8	103	25	0

BROKEN ARROW, OKLA.

[H_b=765 ft.; h_1=11 ft.; h_2=4 ft.; h_3=52 ft.[

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	12.1	SE.	41	NW.	3	8	5	0	7	5	3	1	2	0	9	4	18	6	4	4	1	0	0	4	0	23	1	0
February	15.4	N.	44	S.	6	13	3	1	5	2	4	0	0	0	7	9	12	5	2	2	1	0	1	1	0	15	2	0
March	16.8	SE.	44	NW.	7	6	2	3	6	6	1	3	4	0	8	11	12	10	9	3	0	2	0	2	0	6	6	0
April	14.6	SE.	62	SW.	6	5	3	1	9	4	5	2	1	0	8	8	14	12	10	0	0	1	1	0	0	0	10	0
May	10.4	SE.	56	NW.	4	5	3	0	10	4	2	5	2	0	5	14	12	18	13	0	0	3	1	0	0	0	17	0
June	9.6	S.	32	NW.	0	5	3	1	6	8	5	1	1	0	8	17	5	3	3	0	0	0	0	0	12	0	6	0
July	10.5	S.	40	S.	2	5	3	5	5	9	3	1	0	0	13	9	9	8	7	0	0	0	0	0	14	0	9	0
August	8.6	S.	32	NW.	0	1	5	2	12	7	2	1	0	1	13	12	6	8	7	0	0	0	0	0	13	0	9	0
September	9.5	S.	36	N.	0	6	5	0	9	8	1	0	1	0	22	6	2	2	1	0	0	0	0	0	10	0	4	0
October	10.5	S.	40	N.	1	8	1	1	5	7	1	2	6	0	19	7	5	8	5	0	0	0	1	0	0	0	4	0
November	11.5	N.	42	SE.	2	8	4	1	6	4	3	2	2	0	14	8	8	7	6	0	0	0	0	0	0	6	3	0
December	13.3	N.	42	S.	2	8	0	2	6	6	5	1	2	1	10	9	12	4	4	0	0	0	1	4	0	18	4	0
Year	11.9	S.	62	SW.	33	78	37	17	86	70	35	19	21	2	136	114	115	91	71	9	2	6	5	11	49	68	75	0

BUFFALO, N. Y.

[H_b=767 ft.; h_1=247 ft.; h_2=238 ft.; h_3=280 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	20.8	W.	76	SW.	11	3	6	8	3	9	11	17	5	0	4	7	20	9	9	17	8	0	1	18	0	30	0	0
February	19.6	SW.	84	SW.	8	3	3	8	4	9	15	12	4	0	2	5	21	17	13	19	10	0	0	13	0	27	2	0
March	15.7	E.	50	SW.	5	2	5	17	5	8	12	10	3	0	5	9	17	17	15	14	11	0	3	7	0	21	0	0
April	19.1	SW.	80	W.	11	2	1	3	5	10	15	14	5	0	6	9	15	12	5	3	0	0	2	0	0	9	4	0
May	12.0	SW.	58	SW.	3	1	10	14	2	12	17	5	1	0	12	7	12	11	9	0	0	0	6	0	0	0	3	0
June	13.5	SW.	52	W.	3	5	9	9	1	7	20	4	5	0	8	8	14	13	10	0	0	0	1	0	0	0	8	0
July	12.2	SW.	60	SW.	6	4	12	6	3	13	10	9	5	0	9	11	11	9	8	0	0	0	0	0	1	0	4	0
August	11.5	SW.	50	SW.	3	8	11	4	3	15	7	9	5	0	10	12	9	8	7	0	0	0	0	0	0	0	8	0
September	12.0	SW.	48	SW.	1	5	9	5	5	18	10	5	3	0	13	8	9	5	4	0	0	0	0	0	0	0	3	0
October	17.3	SW.	62	SW.	9	4	12	2	4	12	13	10	5	0	11	8	12	7	5	1	0	0	0	0	0	1	2	0
November	18.6	NW.	62	SW.	9	2	3	4	4	5	13	12	17	0	2	6	22	15	8	7	5	0	0	2	0	11	0	0
December	20.2	W.	70	W.	11	0	3	7	4	12	10	17	9	0	4	8	19	16	7	17	9	0	0	13	0	25	0	0
Year	16.0	SW.	84	SW.	80	39	84	90	43	130	153	124	67	0	86	98	181	139	100	78	43	0	13	53	1	124	34	0

BURLINGTON, VT.

[H_b=404 ft.; h_1=11 ft.; h_2=3 ft.; h_3=48 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	13.3	S.	56	S.	5	3	5	4	2	9	1	2	5	0	11	7	13	7	5	11	6	0	0	24	0	31	0	2
February	12.9	S.	54	S.	5	3	1	3	3	8	5	1	4	0	5	12	11	12	7	15	10	0	1	15	0	28	0	1
March	10.4	N.	46	S.	2	10	1	2	1	8	5	1	3	0	7	11	13	14	11	9	8	0	2	5	0	27	1	1
April	11.9	S.	56	S.	5	4	0	1	5	12	2	1	4	1	6	11	13	11	10	7	4	0	1	0	0	13	4	3
May	10.2	N.	42	S.	2	8	2	0	3	5	11	0	2	0	14	6	11	7	7	0	0	1	2	0	0	1	3	0
June	8.6	S.	40	NW.	1	6	2	0	0	13	4	1	3	1	3	13	14	21	16	0	0	0	0	0	0	0	8	0
July	9.0	S.	35	S.	0	7	0	1	2	13	8	0	0	0	13	9	9	6	4	0	0	0	0	0	0	0	1	1
August	8.2	S.	44	S.	1	6	2	2	5	8	5	0	1	1	10	7	14	13	9	0	0	0	0	0	0	0	7	0
September	9.7	S.	36	S.	0	4	0	3	2	14	1	0	6	0	16	8	6	6	5	0	0	0	1	0	0	0	2	1
October	11.7	S.	42	S.	3	4	1	0	1	15	3	0	7	0	7	7	17	17	11	6	3	0	1	0	0	11	2	0
November	10.9	S.	38	S.	0	4	1	3	2	9	3	2	6	0	2	4	24	18	10	10	5	0	0	5	0	18	0	0
December	14.8	S.	54	S.	9	7	0	3	3	13	0	0	5	0	5	7	19	10	7	15	9	0	0	17	0	29	0	0
Year	11.0	S.	56	S.	33	66	15	22	29	127	49	8	46	3	99	102	164	142	102	73	45	1	8	66	0	158	28	9

Annual meteorological summary for the year ending December 31, 1922—Continued.

CAIRO, ILL.

[ϕ=37° 00′ N.; λ=89° 10′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.810	30.250	29.080	30.4	35.9	36.9	41.5	27.1	34.3	64	15	25	26	27	80	68	68	0.143	0.150	0.159	1.48	0.42	6.1	7.1	5.9	6.7
February	29.739	30.180	29.290	37.2	42.6	43.3	48.4	33.4	40.9	72	14	30	32	33	77	67	67	.189	.204	.209	2.81	1.13	8.2	7.5	7.2	7.4
March	29.660	30.000	29.060	45.4	51.1	50.5	56.1	42.2	49.2	72	22	39	38	39	79	64	68	.255	.246	.253	8.40	2.66	8.2	7.5	6.9	7.4
April	29.640	30.110	28.980	56.2	64.7	64.4	69.1	52.6	60.8	81	41	48	48	48	74	57	57	.356	.369	.353	3.35	.70	7.1	6.7	6.4	6.5
May	29.551	29.890	29.096	65.7	73.9	73.1	78.0	62.9	70.4	87	54	58	58	59	78	59	62	.496	.493	.504	2.65	1.19	7.0	6.8	6.7	6.7
June	29.599	29.790	29.430	72.3	83.0	81.7	87.0	69.6	78.3	96	60	66	63	64	80	53	58	.638	.599	.616	1.44	.44	6.7	6.2	4.9	5.9
July	29.640	29.840	29.460	73.8	83.3	81.6	86.5	70.6	78.6	95	58	67	66	68	81	57	64	.677	.648	.691	4.49	1.90	5.1	6.0	6.3	5.6
August	29.613	29.800	29.370	71.0	82.8	80.2	86.3	69.0	77.6	94	60	64	64	65	80	54	62	.611	.606	.630	.98	.95	4.6	5.5	4.9	5.0
September	29.684	29.880	29.510	65.7	80.0	76.3	84.3	64.0	74.2	96	52	60	60	63	83	53	64	.545	.545	.589	1.41	.78	2.8	3.5	2.5	3.0
October	29.642	29.964	29.320	53.4	68.4	64.5	72.1	51.9	62.0	89	38	47	46	49	81	47	60	.341	.331	.370	2.54	.89	4.5	5.1	4.5	4.7
November	29.771	30.050	29.110	44.7	54.7	52.8	59.4	42.0	50.7	75	27	39	39	39	80	57	60	.255	.255	.255	1.98	.93	5.3	5.8	3.7	5.1
December	29.720	30.220	29.080	37.7	44.1	42.8	50.0	32.7	41.4	68	16	33	32	33	82	64	69	.216	.207	.209	3.27	.85	6.7	7.5	5.7	6.9
Year	29.672	30.250	28.980	54.5	63.7	62.3	68.2	51.5	59.9	96	14	48	48	49	80	58	63	.394	.388	.403	34.80	2.66	6.0	6.3	5.5	5.9

CANTON, N. Y.

[ϕ=44° 36′ N.; λ=75° 10′ W.]

January	29.638	30.240	28.860	9.5	17.3	....	22.1	3.5	12.8	45	−17	6	10	....	84	70	....	0.062	0.071	.....	1.82	0.61	5.2	5.0	....	4.5
February	29.570	30.080	28.800	16.4	22.4	....	29.3	10.9	20.1	46	−22	13	15	....	85	72	....	.085	.092	.....	2.92	.70	7.4	5.0	....	6.0
March	29.586	30.120	28.800	27.9	35.4	....	39.8	24.1	32.0	57	−4	22	24	....	78	63	....	.124	.137	.....	3.21	1.02	4.7	4.4	....	4.2
April	29.506	29.984	28.750	40.6	47.0	....	52.6	34.6	43.6	72	20	33	34	....	76	64	....	.196	.206	.....	3.46	.89	5.3	5.1	....	5.1
May	29.505	29.904	28.860	56.9	65.2	....	69.3	47.7	58.5	84	37	45	44	....	67	50	....	.316	.302	.....	1.19	.47	4.3	3.6	....	3.0
June	29.429	29.700	28.840	63.1	69.3	....	73.6	55.6	64.6	87	40	56	56	....	79	65	....	.464	.463	.....	7.56	2.04	6.3	5.3	....	5.2
July	29.515	29.747	29.250	67.5	74.6	....	78.3	59.1	68.7	89	49	59	58	....	75	58	....	.507	.494	.....	1.86	.67	3.7	4.4	....	3.5
August	29.486	29.834	28.990	64.3	72.4	....	76.0	56.4	66.2	87	43	56	57	....	76	59	....	.466	.474	.....	4.25	2.02	3.7	4.5	....	4.2
September	29.601	29.940	29.240	58.0	69.1	....	72.4	50.1	61.2	88	28	52	54	....	80	60	....	.400	.432	.....	.96	.39	4.2	3.3	....	3.8
October	29.459	29.950	28.860	43.8	51.2	....	55.8	36.8	46.3	80	21	38	40	....	80	66	....	.252	.263	.....	2.61	1.19	5.2	6.0	....	6.4
November	29.510	29.952	28.860	34.4	40.1	....	44.2	29.7	37.0	61	16	30	31	....	83	70	....	.173	.177	.....	1.66	.34	8.4	7.9	....	8.2
December	29.580	30.060	29.130	20.0	25.2	....	29.4	13.5	21.4	55	−11	16	17	....	83	70	....	.099	.101	.....	1.03	.27	7.5	7.2	....	7.2
Year	29.532	30.240	28.750	41.9	49.1	....	53.6	35.2	44.4	89	−22	36	37	....	79	64	....	.262	.268	.....	32.53	2.04	5.5	5.1	....	5.1

CAPE HENRY, VA.

[ϕ=36° 56′ N.; λ=76° 00′ W.]

January	30.143	30.609	28.940	36.0	40.4	38.8	45.0	32.6	38.8	71	20	32	34	33	83	78	80	0.186	0.206	0.196	4.24	1.68	6.9	7.3	4.2	7.6
February	30.116	30.560	29.590	40.5	45.8	41.9	50.7	35.6	43.2	78	16	37	39	37	88	78	84	.237	.253	.233	4.62	1.16	6.8	6.8	5.2	7.3
March	30.096	30.630	29.340	47.1	52.0	49.0	58.4	41.7	50.0	78	32	42	44	43	82	76	82	.281	.305	.296	6.29	1.67	4.9	5.1	5.1	5.8
April	30.072	30.420	29.390	56.7	61.4	57.3	66.6	50.5	58.6	91	39	49	51	49	78	71	76	.367	.393	.359	1.67	1.05	4.9	4.7	5.8	5.4
May	29.976	30.459	29.440	65.7	69.7	64.2	73.2	58.3	65.8	89	47	60	61	58	83	76	82	.531	.549	.495	1.83	.70	5.0	6.1	5.3	5.7
June	29.966	30.150	29.650	73.5	78.9	72.9	81.5	67.4	74.4	95	60	68	68	67	84	70	82	.688	.687	.660	8.74	1.96	5.2	5.7	7.2	6.0
July	30.007	30.199	29.780	76.4	81.4	75.2	84.2	70.7	77.4	95	64	72	72	70	85	74	85	.776	.786	.740	11.83	5.76	6.1	5.3	6.5	5.9
August	29.978	30.258	29.720	74.2	79.2	73.1	81.3	68.1	74.7	90	58	68	69	67	83	72	82	.699	.720	.668	6.06	2.50	5.2	6.0	6.3	5.9
September	30.068	30.350	29.820	72.0	76.2	71.5	77.8	67.2	72.5	86	56	66	66	65	81	72	80	.644	.665	.624	2.39	1.95	4.8	4.7	3.3	5.1
October	30.003	30.420	29.630	61.8	68.4	63.2	70.6	57.3	64.0	87	44	55	57	56	79	69	77	.463	.502	.472	2.75	.74	5.1	4.9	3.9	4.8
November	30.088	30.470	29.560	49.3	55.3	51.6	57.2	45.9	51.6	77	33	43	44	43	79	68	73	.295	.313	.296	.73	.52	3.8	3.8	3.0	3.8
December	30.110	30.537	29.300	43.6	48.9	46.1	53.1	39.5	46.3	69	28	40	42	41	86	79	82	.257	.284	.261	3.94	1.50	7.8	7.4	7.4	7.4
Year	30.052	30.630	28.940	58.1	63.1	58.7	66.6	52.9	59.8	95	16	53	54	52	83	74	80	.452	.471	.442	55.09	5.76	5.5	5.6	5.3	5.9

CAPE MAY, N. J.

[ϕ=38° 56′ N.; λ=74° 51′ W.]

January	30.188	30.695	28.829	28.5	....	32.6	38.6	26.3	32.4	53	11	22	....	26	76	....	76	0.128	.....	0.149	3.95	1.68	5.9	....	4.8	5.5
February	30.150	30.602	29.556	33.9	....	35.7	42.1	30.4	36.2	58	6	30	....	30	85	....	80	.173	.....	.174	4.60	.85	7.0	....	5.4	6.2
March	30.120	30.669	29.478	39.2	....	42.4	48.0	30.3	42.2	68	20	34	....	37	80	....	81	.201	.....	.224	4.55	1.01	6.3	....	6.1	6.3
April	30.093	30.453	29.356	49.4	....	49.5	58.3	44.3	51.3	83	35	40	....	42	72	....	76	.260	.....	.271	2.41	1.07	5.1	....	3.5	4.9
May	30.018	30.518	29.536	60.9	....	60.3	70.1	55.2	62.6	83	42	54	....	64	80	....	80	.428	.....	.421	1.23	.45	5.0	....	3.7	4.4
June	29.986	30.181	29.609	68.6	....	68.3	77.1	64.3	70.7	92	55	63	....	63	84	....	85	.582	.....	.588	5.15	1.85	5.4	....	5.4	6.0
July	30.039	30.242	29.780	72.1	....	71.9	78.7	67.3	73.0	88	59	68	....	68	87	....	87	.682	.....	.682	6.06	1.52	6.1	....	5.4	5.4
August	30.008	30.316	29.721	70.9	....	71.3	78.6	66.8	72.7	86	60	67	....	66	85	....	86	.649	.....	.657	4.79	2.19	4.9	....	5.2	5.6
September	30.128	30.446	29.816	66.1	....	68.2	76.3	62.0	69.2	86	42	61	....	62	85	....	82	.566	.....	.576	2.07	1.70	3.2	....	3.0	3.3
October	30.027	30.463	29.618	56.1	....	60.6	67.3	52.9	60.1	84	35	49	....	52	78	....	74	.392	.....	.427	1.07	.42	3.8	....	3.8	3.9
November	30.092	30.446	29.630	44.9	....	48.2	54.6	41.9	48.2	70	30	38	....	40	77	....	75	.245	.....	.264	.71	.30	5.0	....	4.2	5.4
December	30.148	30.649	29.261	35.8	....	39.3	44.9	31.7	38.3	57	18	31	....	34	84	....	81	.185	.....	.204	4.13	1.57	5.9	....	5.4	7.1
Year	30.083	30.695	28.829	52.2	....	54.0	61.2	48.3	54.7	92	6	46	....	48	81	....	80	.374	.....	.386	40.72	2.19	5.3	....	4.7	5.3

Annual meteorological summary for the year ending December 31, 1922—Continued.

CAIRO, ILL.

[H_b=358 ft.; h_t=87 ft.; h_r=80 ft.; h_a=93 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.*	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	10.0	N.	42	N.	1	17	13	4	6	7	5	2	8	0	6	8	17	8	8	4	2	0	3	8	0	24	0	0
February	12.5	N.	38	SW.	0	19	3	3	7	12	3	5	4	0	3	7	18	9	8	2	0	0	1	2	0	13	2	0
March	11.4	SE.	48	SW.	2	8	7	1	14	15	4	4	9	0	5	3	23	15	11	1	0	0	0	2	0	4	5	0
April	11.8	S.	46	SW.	1	8	10	5	14	13	5	3	2	0	8	5	17	8	8	0	0	0	0	0	0	0	5	0
May	7.1	SE.	25	NW.	0	8	5	12	12	10	8	2	5	0	6	10	15	12	8	0	0	0	0	0	0	0	8	0
June	6.7	N.	31	SW.	0	13	6	8	6	12	8	0	7	0	6	12	12	13	8	0	0	0	0	0	9	0	13	0
July	6.6	S.	27	NW.	0	11	10	5	4	19	5	4	2	2	9	8	14	5	5	0	0	0	0	0	6	0	6	0
August	5.8	N.	22	N.	0	18	5	4	7	10	10	3	5	0	13	7	11	4	2	0	0	0	2	0	11	0	5	0
September	6.1	N.	24	NW.	0	13	10	3	5	11	6	2	8	2	21	4	5	4	4	0	0	0	0	0	6	0	6	0
October	6.4	S.	30	N.	0	13	8	7	8	15	2	3	6	0	14	7	10	8	6	0	0	0	2	0	0	0	0	0
November	8.5	S.	37	NW.	0	12	7	2	10	14	7	2	5	1	11	9	10	9	8	1	0	0	0	0	0	4	2	0
December	10.6	S.	31	NW.	0	15	9	6	4	16	4	1	7	0	6	7	18	13	11	0	0	0	0	2	0	16	2	0
Year	8.6	S.	48	SW.	4	155	93	60	97	154	67	31	68	5	108	87	170	108	87	8	2	0	8	14	32	61	54	0

CANTON, N. Y.

[H_b=448 ft.; h_t=10 ft.; h_r=4 ft.; h_a=61 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.*	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	12.4	W.	52	W.	7	2	3	6	1	2	8	4	5	0	14	7	10	14	10	18	13	0	0	23	0	31	0	5
February	11.9	W.	54	SW.	4	0	3	6	0	1	9	5	4	0	9	7	12	14	9	19	13	0	0	17	0	28	1	1
March	10.2	W.	39	W.	0	4	2	6	2	0	8	6	3	0	17	5	9	11	11	8	6	0	0	6	0	26	0	1
April	11.6	W.	48	W.	3	2	2	5	0	1	7	9	4	0	15	5	10	13	11	6	4	0	0	0	0	13	3	4
May	9.6	SW.	39	W.	0	1	5	5	1	1	9	6	3	0	21	3	7	6	5	0	0	0	0	0	0	0	1	3
June	8.3	SW.	39	SW.	0	3	4	4	2	1	6	7	3	0	10	12	8	18	13	0	0	0	0	0	0	0	3	0
July	7.9	SW.	39	NW.	0	2	3	3	0	5	10	7	1	0	17	10	4	9	6	0	0	0	0	0	0	0	4	6
August	6.5	SW.	35	SW.	0	3	2	5	1	0	9	2	3	0	12	13	6	8	7	0	0	0	0	0	0	0	7	4
September	7.8	SW.	27	W.	0	0	3	4	1	4	11	4	3	0	17	8	5	7	4	0	0	0	0	0	0	1	0	3
October	10.5	SW.	47	SW.	2	3	1	3	0	2	10	8	4	0	8	8	15	13	11	4	2	0	0	0	0	12	1	1
November	10.1	W	45	SW.	1	4	2	1	1	3	8	7	4	0	2	5	23	15	11	9	2	0	0	5	0	18	0	0
December	13.0	SW.	53	W.	5	2	2	6	1	3	9	6	2	0	7	3	21	13	7	18	11	0	0	15	0	29	0	0
Year	10.0	SW.	54	SW.	22	26	32	54	10	29	104	71	39	0	149	86	130	141	105	82	51	0	0	66	0	158	20	28

CAPE HENRY, VA.

[H_b=18 ft.; h_t=8 ft.; h_r=3 ft.; h_a=54 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.*	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	19.3	SW.	64	NW.	7	12	19	2	2	4	11	1	11	0	5	5	21	12	12	6	2	0	5	3	0	13	0	0
February	14.8	NE.	58	N.	4	6	12	3	5	9	10	1	9	1	4	7	17	13	12	3	2	0	8	1	0	6	2	0
March	13.8	SW.	62	NE.	3	11	9	4	6	9	12	5	6	0	10	8	13	14	12	0	0	1	8	0	0	1	3	0
April	14.3	SW.	49	E.	3	6	11	8	10	2	13	6	4	0	12	6	12	8	5	0	0	1	0	0	1	0	2	0
May	10.9	SE.	56	NE.	1	1	7	9	16	13	10	4	2	0	10	10	11	13	8	0	0	0	1	0	0	0	5	0
June	10.0	SW.	51	NW.	1	3	2	3	13	11	19	5	4	0	11	4	15	16	13	0	0	0	3	0	2	0	12	0
July	10.2	SW.	64	NW.	2	3	9	5	7	13	18	4	3	0	9	10	12	14	13	0	0	0	1	0	9	0	10	0
August	11.6	SW.	38	W.	0	6	8	3	6	18	16	3	2	0	6	14	11	13	11	0	0	0	1	0	2	0	9	0
September	13.1	NE.	45	NE.	4	8	16	11	8	8	5	2	2	0	10	12	8	5	3	0	0	0	0	0	0	0	1	0
October	13.5	SW.	53	NW.	3	5	12	8	5	11	11	3	7	0	13	10	8	8	8	0	0	0	1	0	0	0	2	0
November	15.3	NW.	58	N.	8	6	8	2	3	9	15	3	14	0	16	8	6	3	2	0	0	0	1	0	0	0	0	0
December	14.6	SW.	47	NW.	5	8	14	2	8	5	13	4	8	0	4	9	18	17	12	2	2	0	6	0	0	4	0	0
Year	13.4	SW.	64	NW.	41	75	127	60	89	112	153	41	72	1	110	103	152	136	111	11	6	2	35	4	14	24	46	0

CAPE MAY, N. J

[H_b=17 ft.; h_t=13 ft.; h_r=3 ft.; h_a=49 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.*	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	10.8	N.	48	NW.	2	21	6	2	0	6	8	2	17	0	13	4	14	12	11	5	3	0	1	5	0	23	0	0
February	9.7	NW.	36	NW.	0	5	5	7	1	10	9	5	14	0	7	7	14	14	12	4	3	0	2	3	0	14	1	0
March	10.4	NW.	45	SE.	1	5	6	6	5	13	4	7	16	0	10	3	18	14	11	2	0	0	5	1	0	9	1	0
April	10.2	NW.	41	SW.	1	5	4	7	4	14	5	5	16	0	13	8	9	12	9	0	0	0	0	0	0	0	0	0
May	8.4	S.	38	NE.	0	2	7	8	10	15	12	3	5	0	15	7	9	11	7	0	0	0	2	0	0	0	3	0
June	6.7	S.	29	NW.	0	2	3	6	4	21	10	5	9	0	10	7	13	18	10	0	0	0	2	0	1	0	8	0
July	6.5	S.	30	W.	0	9	7	4	8	19	6	7	2	0	10	9	12	14	11	0	0	0	2	0	0	0	9	0
August	8.1	SW.	27	SE.	0	10	8	2	4	14	15	5	3	1	11	7	13	12	9	0	0	1	2	0	0	0	8	0
September	6.7	N.	24	NE.	0	12	9	3	9	9	6	6	1	0	18	8	4	3	2	0	0	0	3	0	0	0	0	0
October	8.5	SW.	36	S.	0	13	4	3	3	7	15	5	12	0	16	7	8	10	5	0	0	0	1	0	0	0	1	0
November	9.5	NW.	31	NW.	0	6	1	1	2	4	12	7	26	1	12	4	14	4	2	0	0	0	3	0	0	4	0	0
December	6.4	NW.	30	NW.	0	15	6	5	5	4	3	5	17	2	5	9	17	12	9	3	1	0	7	1	0	14	0	0
Year	8.5	NW.	48	NW.	4	105	66	59	55	136	105	62	138	4	140	80	145	136	98	14	7	1	30	10	1	64	31	0

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1922—Continued.

CHARLES CITY, IOWA.

[ϕ=43° 04′ N.; λ=92° 38′ W.]

Month.	Pressure.			Temperature.								Moisture.												
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.067	29.720	28.420	7.3	18.0	17.2	23.1	3.2	13.2	38	−29	5	12	13	92	75	82	0.059	0.080	0.086	1.44	1.15	5.5	4.7	4.6	5.8
February	28.998	29.740	28.166	13.5	21.3	20.6	27.3	8.6	18.0	46	−10	11	14	16	90	74	80	.079	.088	.093	2.93	1.30	4.9	5.3	5.8	6.0
March	28.948	29.570	28.190	29.9	39.3	37.5	43.6	27.4	35.5	64	8	27	28	30	86	67	76	.148	.154	.169	1.31	.63	5.6	6.5	5.3	6.0
April	28.923	29.460	27.950	39.9	51.7	50.8	58.0	36.1	46.0	70	27	36	38	39	86	63	66	.216	.235	.244	3.05	1.15	5.7	7.1	6.2	6.6
May	28.852	29.258	28.370	56.9	68.3	66.2	72.3	52.3	62.3	87	44	51	52	53	80	60	65	.379	.403	.418	3.93	1.22	5.7	6.0	5.4	6.1
June	28.908	29.235	28.531	65.0	77.1	76.6	81.1	59.0	70.0	95	43	58	57	59	77	52	56	.483	.482	.510	1.00	.45	4.5	5.0	2.9	4.2
July	28.944	29.240	28.570	64.0	72.3	74.4	78.9	58.5	68.7	86	47	58	59	60	82	60	62	.493	.521	.531	7.25	2.30	5.2	6.2	4.0	5.2
August	28.913	29.091	28.600	65.3	79.8	76.2	82.6	60.7	71.6	94	47	60	62	64	83	55	66	.526	.560	.601	1.99	.91	3.3	3.2	4.2	2.2
September	28.902	29.430	28.600	56.1	73.6	66.9	76.3	52.9	64.6	98	39	52	54	55	87	54	67	.413	.439	.451	2.22	1.23	4.5	3.3	3.5	3.7
October	28.911	29.270	28.570	44.3	61.6	54.9	65.5	41.9	53.7	86	24	39	42	43	83	52	64	.250	.287	.288	2.38	1.76	4.9	4.2	3.9	3.9
November	28.950	29.300	28.350	36.4	43.3	40.9	46.5	33.6	40.0	64	15	33	35	35	88	73	80	.197	.210	.213	3.14	1.28	7.2	7.3	7.1	7.3
December	28.980	29.530	28.530	15.0	24.7	20.9	28.8	9.4	19.1	49	−21	12	17	17	89	73	82	.086	.104	.099	.43	.26	5.8	5.5	4.6	5.3
Year	28.950	29.740	27.950	41.1	52.6	50.3	56.8	37.0	46.9	98	−29	37	39	40	85	63	70	.277	.297	.309	31.07	2.30	5.2	5.4	4.8	5.3

CHARLESTON, S. C.

[ϕ=32° 47′ N.; λ=79° 56′ W.]

January	30.129	30.451	29.280	43.0	50.3	46.8	54.6	40.1	47.4	74	26	38	38	39	83	65	77	0.246	0.248	0.260	2.48	0.60	6.2	5.4	5.5	5.9
February	30.106	30.500	29.570	52.2	59.9	55.8	63.6	49.3	56.4	77	28	48	48	50	87	68	81	.360	.376	.377	5.63	2.65	7.1	7.5	5.4	6.9
March	30.090	30.374	29.570	55.6	64.0	59.2	67.0	51.1	59.0	80	36	49	49	50	79	60	74	.373	.375	.388	3.15	1.33	4.6	4.3	3.7	4.3
April	30.070	30.390	29.660	64.5	73.8	66.5	76.3	60.0	68.2	89	45	56	55	57	74	54	74	.471	.459	.491	1.50	.55	4.3	4.2	4.6	4.1
May	29.931	30.310	29.530	72.1	77.4	72.4	80.0	67.2	73.6	93	58	65	64	65	79	65	79	.622	.604	.624	9.56	2.68	5.0	5.5	6.3	5.5
June	29.965	30.145	29.800	79.1	83.8	79.2	85.8	73.9	79.8	97	69	71	69	71	76	63	77	.753	.715	.766	3.54	.86	4.5	5.1	6.6	5.1
July	30.024	30.200	29.850	81.5	86.8	80.1	89.3	75.3	82.3	97	70	74	73	73	77	63	80	.822	.802	.823	8.02	2.30	4.4	5.1	6.5	5.4
August	29.959	30.120	29.770	76.4	82.2	77.8	84.2	72.0	78.1	95	66	72	72	72	85	73	83	.775	.799	.783	5.18	.84	5.7	6.1	5.9	6.1
September	29.999	30.180	29.810	73.9	81.6	75.9	83.2	70.5	76.8	90	62	69	71	70	84	70	82	.714	.760	.742	1.13	.58	5.7	5.7	5.4	5.6
October	29.959	30.200	29.640	65.2	73.6	68.4	75.1	62.3	68.7	86	52	60	62	63	85	68	83	.547	.569	.586	5.72	2.41	4.5	5.1	4.5	5.3
November	30.105	30.480	29.450	55.0	65.9	59.8	67.9	52.3	60.1	82	34	48	48	51	78	54	74	.370	.368	.400	.10	.07	4.9	4.2	2.9	4.3
December	30.093	30.410	29.560	51.8	61.0	55.6	63.9	48.7	56.3	79	34	48	50	50	88	71	83	.354	.387	.381	4.81	2.19	5.6	6.6	6.4	6.5
Year	30.036	30.500	29.280	64.2	71.7	66.5	74.2	60.2	67.2	97	26	58	58	59	81	64	79	.534	.539	.552	50.62	2.68	5.2	5.4	5.3	5.4

CHARLOTTE, N. C.

[ϕ=35° 13′ N.; λ=80° 51′ W.]

January	29.331	29.740	28.340	36.0	42.7	41.3	47.5	33.0	40.2	68	18	30	30	32	77	64	70	0.180	0.195	0.201	5.24	1.31	6.1	7.2	5.3	7.2
February	29.293	29.700	28.830	43.7	51.1	50.7	56.5	40.2	48.4	73	20	39	40	42	84	68	71	.261	.276	.284	7.12	2.00	7.9	6.5	5.8	7.0
March	29.269	29.850	28.700	47.8	57.4	54.9	62.7	43.6	53.2	79	29	41	42	42	78	61	65	.280	.293	.287	6.32	1.31	5.9	6.0	5.2	6.1
April	29.268	29.620	28.730	55.7	65.3	63.4	70.5	51.5	61.0	86	36	48	47	48	78	56	62	.361	.354	.360	6.59	2.86	5.7	5.6	5.2	5.5
May	29.159	29.590	28.620	65.3	75.5	70.8	78.9	59.9	69.4	88	49	58	56	58	77	52	67	.484	.457	.495	3.72	1.45	5.5	5.5	6.6	6.0
June	29.180	29.400	28.970	72.9	83.7	78.1	87.5	67.6	77.6	95	59	66	63	64	80	52	66	.644	.593	.615	2.74	.87	4.9	5.3	6.0	5.5
July	29.232	29.440	28.980	74.3	83.7	78.4	87.9	69.6	78.8	96	60	69	67	68	84	59	72	.714	.670	.698	5.19	1.37	5.5	5.7	5.8	5.8
August	29.196	29.450	28.960	70.4	80.2	75.3	83.7	66.1	74.9	94	57	64	62	64	81	56	66	.604	.566	.598	2.74	.84	5.4	5.8	6.5	6.0
September	29.273	29.510	29.020	67.1	79.9	75.0	83.4	63.6	73.5	94	54	60	58	59	80	47	58	.541	.490	.513	1.23	.72	3.9	4.3	3.0	4.1
October	29.207	29.560	28.850	56.0	69.3	63.5	72.8	52.9	62.8	87	43	48	46	48	75	46	61	.354	.338	.359	5.32	2.26	3.9	4.1	3.8	3.8
November	29.315	29.650	28.730	44.3	58.0	53.8	61.7	41.5	51.6	74	24	37	36	38	75	46	57	.233	.239	.261	.92	.58	3.6	2.7	3.7	3.4
December	29.295	29.670	28.650	41.7	49.8	48.0	54.5	38.6	46.6	72	24	37	39	40	84	70	77	.240	.259	.269	4.47	1.05	6.7	7.2	6.1	7.2
Year	29.252	29.740	28.340	56.3	66.4	62.8	70.6	52.3	61.5	96	18	50	49	50	79	56	66	.408	.394	.411	51.60	2.86	5.4	5.5	5.2	5.6

CHATTANOOGA, TENN.

[ϕ=35° 04′ N.; λ=85° 14′ W.]

January	29.375	29.680	28.520	37.8	43.1	43.5	48.3	34.7	41.5	64	20	31	33	33	77	69	68	0.185	0.201	0.199	6.29	2.41	8.0	7.1	7.5	7.4
February	29.331	29.780	28.937	44.0	50.9	51.0	56.3	40.7	48.5	74	20	37	39	40	75	65	68	.241	.262	.270	4.56	2.08	7.8	6.7	6.8	7.2
March	29.289	29.590	28.740	46.9	56.3	56.4	61.5	44.5	53.0	77	29	40	42	41	76	60	60	.266	.282	.279	9.80	3.66	7.0	6.7	5.9	6.6
April	29.285	29.680	28.780	55.4	66.5	67.0	72.3	53.1	62.7	85	39	47	49	50	75	56	58	.346	.366	.387	4.35	1.98	6.6	5.5	5.5	6.0
May	29.173	29.550	28.670	63.6	74.3	71.5	78.2	60.3	69.2	86	49	57	57	58	80	57	66	.471	.481	.500	4.21	1.04	6.3	6.0	7.1	6.5
June	29.216	29.440	28.940	70.8	82.2	78.5	85.5	66.7	76.1	94	60	64	65	67	81	57	60	.611	.618	.658	1.56	2.21	4.9	5.4	6.1	5.8
July	29.267	29.450	29.070	72.5	82.4	79.9	87.0	68.6	77.8	95	61	67	67	68	82	62	68	.656	.672	.680	3.65	.85	4.6	5.6	5.8	5.5
August	29.222	29.440	29.000	68.9	80.6	78.3	85.0	65.9	75.4	94	58	63	63	64	81	57	63	.574	.585	.606	5.22	1.47	4.1	4.7	4.7	4.5
September	29.290	29.470	29.100	66.2	81.1	77.4	85.7	63.8	74.8	93	56	60	62	62	82	54	60	.533	.569	.568	.78	.64	3.4	2.6	3.4	3.2
October	29.233	29.530	28.900	54.0	68.6	66.0	73.2	51.4	62.3	88	40	45	47	47	74	48	54	.322	.342	.343	1.72	1.24	4.0	3.8	2.9	3.9
November	29.377	29.650	28.690	45.1	56.8	55.1	61.7	42.8	52.2	79	26	37	38	38	73	52	54	.238	.254	.249	1.24	.71	4.1	4.2	3.7	4.1
December	29.318	29.630	28.710	45.1	51.5	51.3	57.2	41.5	49.4	74	27	39	40	41	80	68	70	.263	.272	.278	8.95	2.08	7.1	6.7	6.2	6.6
Year	29.281	29.780	28.520	55.9	66.2	64.7	71.0	52.8	61.9	95	20	49	50	51	78	59	63	.392	.409	.418	55.33	3.66	5.7	5.4	5.4	5.6

Annual meteorological summary for the year ending December 31, 1922—Continued.

CHARLES CITY, IOWA.

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

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Number of winds, 8 a. m. and 8 p. m. Days with 40 miles and over.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	7.1	SE.	30	NW.	0	4	8	1	15	11	8	2	13	0	10	10	11	8	5	11	8	0	1	23	0	31	0	0
February	8.4	NW.	34	W.	0	4	6	3	6	8	1	6	22	0	6	12	10	8	6	6	6	0	0	17	0	28	2	0
March	8.7	SE.	27	S.	0	9	8	6	16	8	1	1	12	1	9	8	14	6	5	4	3	0	0	1	0	24	1	0
April	7.8	S.	35	NW.	0	8	10	9	12	8	2	1	9	1	4	12	14	10	9	3	1	0	2	0	0	7	2	0
May	6.5	NW.	28	SW.	0	4	7	7	10	14	4	3	12	1	6	13	12	15	12	0	0	0	0	0	0	0	7	0
June	5.8	SW.	23	SE.	0	4	3	5	13	10	14	5	6	0	13	14	3	11	6	0	0	0	0	0	2	0	5	0
July	4.7	SW.	23	SW.	0	10	9	2	9	10	7	4	10	1	10	12	9	14	10	0	0	2	0	0	0	6	7	0
August	5.1	SE.	23	W.	0	2	4	4	20	7	9	4	8	4	18	8	5	11	8	0	0	0	0	0	4	0	7	0
September	5.3	SE.	20	SE.	0	3	8	3	20	10	5	2	6	3	17	7	6	8	7	0	0	0	1	0	6	0	4	0
October	5.3	SE.	25	SE.	0	3	3	0	21	9	8	4	12	2	14	10	7	6	5	1	0	0	0	0	0	4	2	0
November	8.8	SW.	34	SW.	0	4	4	3	9	8	14	7	11	0	4	9	17	10	10	3	1	0	1	2	0	14	1	0
December	7.3	SE.	28	NW	0	4	9	3	17	5	5	6	13	0	11	11	9	6	4	7	4	0	1	17	0	31	0	0
Year	6.7	SE.	35	NW.	0	59	79	46	168	108	78	45	134	13	122	126	117	113	87	35	23	2	6	60	12	139	38	0

CHARLESTON, S. C.

[H_b=48 ft.; h_t=11 ft.; h_r=76 ft.; h_a=92 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	12.0	N.	37	S.	0	10	13	3	0	4	14	6	12	0	11	7	13	9	8	0	0	0	4	1	0	6	0	0
February	10.7	SW.	36	NW.	0	6	9	6	3	4	20	3	5	0	5	9	14	11	7	0	0	0	3	0	0	2	5	0
March	12.1	S.	39	NE.	0	5	10	7	3	13	8	7	9	0	15	10	6	13	11	0	0	0	1	0	0	0	1	0
April	12.3	SW.	33	NE.	0	6	11	1	3	10	18	6	5	0	13	11	6	6	4	0	0	0	0	0	0	0	2	0
May	11.2	NE.	34	E.	0	3	17	8	4	10	13	5	2	0	9	11	11	16	15	0	0	0	0	0	1	0	13	0
June	9.5	S.	30	S.	0	3	6	4	6	12	20	7	2	0	7	18	5	15	14	0	0	0	0	0	6	0	12	0
July	9.0	SW.	54	NE.	1	2	1	1	4	13	25	14	2	0	6	20	5	19	15	0	0	1	1	0	14	0	15	0
August	9.3	SW.	40	N.	1	6	12	10	3	12	10	5	4	0	7	9	15	17	14	0	0	0	0	0	2	0	7	0
September	12.0	NE.	38	NE.	0	12	25	7	2	3	4	3	4	0	9	12	9	10	6	0	0	0	0	0	1	0	6	0
October	10.5	NE.	32	NE.	0	9	28	4	3	4	8	1	5	0	10	10	11	7	6	0	0	0	1	0	0	0	2	0
November	10.1	NE.	37	N.	0	9	24	2	0	5	8	3	9	0	11	15	4	4	1	0	0	0	0	0	0	0	0	0
December	11.3	SW.	34	N.	0	5	15	1	1	5	19	8	8	0	8	5	18	15	11	0	0	0	3	0	0	0	1	0
Year	10.8	NE.	54	NE.	2	76	171	54	32	95	167	68	67	0	111	137	117	142	112	0	0	1	13	1	24	8	64	0

CHARLOTTE, N. C.

[H_b=779 ft.; h_t=55 ft.; h_r=47 ft.; h_a=62 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	7.1	NE.	24	NW.	0	13	19	1	3	5	13	3	5	0	6	7	18	13	10	5	4	0	4	3	0	14	0	0
February	6.5	SW.	25	NW.	0	5	15	4	4	6	15	2	5	0	5	9	14	13	12	2	2	0	1	0	0	8	0	0
March	6.6	NE.	32	SW.	0	8	12	3	6	16	8	4	4	1	9	5	17	14	12	0	0	0	1	0	0	2	2	0
April	6.4	SW.	23	SW.	0	9	17	4	2	6	16	4	2	0	11	6	13	10	9	0	0	0	0	0	0	0	3	0
May	4.5	SE.	20	SW.	0	5	13	7	13	7	7	4	5	1	9	10	12	12	10	0	0	0	0	0	0	0	7	0
June	4.0	SE.	19	W.	0	6	6	6	8	7	7	13	7	0	8	15	7	14	11	0	0	0	0	0	9	0	11	0
July	3.6	SW.	19	NW.	0	3	12	4	8	6	15	8	3	3	5	16	10	14	10	0	0	0	0	0	12	0	15	0
August	4.0	NE.	24	NW.	0	7	16	7	5	10	6	3	5	3	8	8	15	12	10	0	0	1	0	0	3	0	13	0
September	4.2	NE.	15	NE.	0	9	27	8	6	2	2	2	3	1	13	13	4	4	4	0	0	0	0	0	3	0	6	0
October	3.8	NE.	15	W.	0	8	21	3	4	7	9	3	2	5	17	6	8	10	10	0	0	0	0	0	0	0	2	0
November	4.5	SW.	19	NW.	0	13	15	0	5	7	13	3	1	3	16	8	6	5	5	2	1	0	1	0	0	6	0	0
December	5.4	SW.	19	SW.	0	7	20	3	4	3	18	2	4	1	7	3	21	17	14	0	0	0	9	1	0	5	1	0
Year	5.0	NE.	32	SW.	0	93	193	50	68	82	129	51	46	18	114	106	145	138	117	9	7	1	16	4	27	35	60	0

CHATTANOOGA, TENN.

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

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	7.8	N.*	36	NW.	0	12	12	6	5	8	5	7	7	0	4	7	20	19	15	6	3	0	1	0	0	11	1	0
February	8.6	SE.	44	N.	1	7	6	1	15	6	4	6	11	0	3	11	14	12	8	2	0	0	3	0	0	5	1	0
March	9.7	W.	46	SW.	1	3	6	1	16	7	6	16	7	0	7	6	18	17	13	1	0	0	3	0	0	3	4	0
April	9.4	N.	44	SW.	1	15	7	1	10	9	9	4	4	1	7	11	12	15	11	0	0	0	0	0	0	0	7	0
May	6.5	SW.	33	NW.	0	5	13	6	10	4	15	7	2	0	3	16	12	18	13	0	0	1	1	0	0	0	11	0
June	5.5	W.	51	N.	2	11	6	1	3	2	12	19	5	1	5	19	6	17	9	0	0	2	0	0	7	0	12	0
July	5.9	SW.	44	NW.	2	8	1	1	9	2	24	5	11	1	7	16	8	15	13	0	0	0	1	0	7	0	12	0
August	5.9	NW.	44	SE.	1	11	9	1	5	5	9	9	13	0	12	16	3	13	10	0	0	0	0	0	4	0	10	0
September	4.4	NW.	32	NW.	0	12	9	1	6	4	4	9	12	3	13	10	2	5	2	0	0	0	3	0	6	0	4	0
October	5.7	NE.	25	SW.	0	7	16	3	4	10	9	6	7	0	16	11	4	5	3	0	0	0	2	0	0	0	2	0
November	7.9	NW.	28	NW.	0	8	9	1	12	6	5	7	12	0	14	9	7	9	5	1	0	0	4	0	0	5	2	0
December	8.8	SW.	39	W.	0	8	8	2	9	4	19	5	4	3	8	5	18	15	14	0	0	0	5	0	0	4	4	0
Year	7.2	SW.	51	N.	8	107	102	25	104	67	121	100	95	9	104	137	124	160	116	10	3	3	23	0	24	28	70	0

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1922—Continued.

CHEYENNE, WYO.

[ϕ=41° 08′ N.; λ=104° 48′ W.]

Month.	Pressure.			Temperature.								Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	23.891	24.300	23.410	18.2	28.7	23.2	31.4	10.7	21.0	55	−22	7	10	9	62	45	55	0.058	0.066	0.065	0.47	0.27	4.1	3.9	2.8	3.9
February	23.880	24.220	23.520	19.9	30.0	26.1	34.5	13.3	23.9	56	−12	8	11	11	61	48	55	.065	.075	.075	.85	.28	3.5	5.5	5.9	5.3
March	23.884	24.170	23.480	27.6	41.1	39.4	45.4	22.3	33.8	60	−15	16	17	17	62	38	40	.092	.094	.095	.33	.23	4.4	5.2	5.1	5.0
April	23.910	24.272	23.460	31.0	44.5	43.0	48.2	28.2	38.2	65	19	26	25	27	82	52	58	.144	.140	.146	3.23	.93	5.7	5.6	7.0	6.6
May	23.982	24.260	23.480	43.2	58.3	55.9	62.1	37.6	49.8	76	28	34	31	32	70	38	44	.196	.180	.186	2.90	.81	4.4	5.4	5.8	5.4
June	24.070	24.380	23.774	53.9	73.0	72.4	77.5	50.2	63.8	93	29	43	40	41	70	34	35	.289	.258	.266	.90	.61	2.7	3.2	4.5	3.5
July	24.142	24.330	23.760	56.6	74.7	72.5	79.3	51.7	65.5	92	40	45	41	45	68	34	42	.306	.263	.306	2.01	.71	3.0	3.5	5.4	4.4
August	24.139	24.300	24.020	59.0	77.4	73.4	81.6	56.5	69.0	90	50	49	47	50	70	36	47	.349	.331	.368	2.16	.74	2.0	4.5	6.1	4.1
September	24.130	24.360	23.910	49.6	70.3	68.5	75.0	46.5	60.8	84	34	36	36	36	62	31	33	.218	.213	.216	.36	.24	2.4	3.7	4.5	3.3
October	24.041	24.262	23.600	38.3	56.9	52.4	61.3	33.7	47.5	82	15	22	26	25	53	36	39	.116	.145	.136	.23	.16	3.7	3.6	3.6	3.4
November	24.005	24.310	23.360	27.3	37.9	32.9	41.1	21.8	31.4	55	10	20	23	24	73	56	68	.106	.121	.125	2.40	1.32	4.4	4.7	4.8	4.9
December	23.892	24.200	23.520	27.4	34.8	29.8	39.1	19.9	29.5	52	−1	16	18	18	63	49	61	.090	.100	.090	.44	.24	3.4	5.7	4.4	5.3
Year	23.997	24.380	23.360	37.7	52.3	49.1	56.4	32.7	44.5	93	−22	27	27	28	66	41	48	.169	.166	.174	15.38	1.32	3.6	4.5	5.0	4.6

CHICAGO, ILL.

[ϕ=41° 53′ N.; λ=87° 37′ W.]

January	29.275	29.850	28.550	21.5	26.7	27.6	32.5	17.1	24.8	52	−1	15	17	17	73	65	62	0.091	0.101	0.102	1.16	1.01	4.2	5.4	4.8	4.7
February	29.193	29.830	28.580	27.0	31.5	32.2	37.4	21.4	29.4	68	2	19	21	21	70	64	61	.118	.126	.122	.74	.24	6.4	6.9	4.4	6.2
March	29.162	29.680	29.480	36.5	41.2	40.0	45.3	33.4	39.4	66	23	30	32	32	76	69	72	.169	.189	.181	5.58	1.23	6.5	6.4	6.4	6.4
April	29.153	29.590	28.236	45.6	51.1	49.8	56.0	41.4	48.7	74	30	39	40	39	77	68	66	.245	.265	.250	3.70	2.64	6.1	6.1	4.9	6.0
May	29.076	29.460	28.480	61.2	67.2	65.1	70.2	57.5	63.8	83	52	52	52	51	73	62	62	.398	.401	.377	3.18	.64	4.7	5.9	5.5	5.2
June	29.115	29.420	28.770	68.0	73.8	73.1	77.7	63.8	70.8	95	51	56	56	56	68	56	58	.468	.464	.467	.12	.06	4.1	5.2	4.2	3.9
July	29.144	29.460	28.770	70.4	76.3	75.3	79.5	67.1	73.3	93	60	59	58	59	68	56	58	.507	.499	.508	4.00	1.85	4.9	5.5	4.6	4.7
August	29.130	29.360	28.720	69.8	77.4	74.7	79.5	67.0	73.2	92	56	59	59	60	70	55	62	.515	.518	.538	1.45	.85	3.0	4.4	3.0	3.4
September	29.228	29.560	28.905	65.5	72.6	71.2	75.7	63.3	69.5	98	52	56	56	56	72	59	61	.462	.471	.468	4.37	2.50	3.4	3.5	2.7	3.4
October	29.119	29.450	28.700	53.0	61.2	59.2	64.7	50.6	57.6	87	36	42	43	45	68	54	61	.287	.294	.311	3.40	1.53	4.5	4.9	3.5	4.1
November	29.184	29.510	28.702	41.8	45.9	45.9	49.8	39.3	44.6	66	21	34	36	37	74	68	71	.208	.219	.237	2.66	.96	7.0	7.3	6.2	7.5
December	29.188	29.720	28.710	27.8	31.5	32.1	37.4	22.4	29.9	53	−3	20	21	22	71	65	65	.121	.123	.128	1.21	.54	6.3	6.4	5.7	6.3
Year	29.164	29.850	28.236	49.0	54.7	53.8	58.8	45.4	52.1	98	−3	40	41	41	72	62	63	.299	.306	.307	31.57	2.64	5.1	5.7	4.7	5.2

CHICAGO UNIVERSITY, ILL.

[ϕ=41° 47′ N.; λ=87° 35′ W.]

January	29.471	30.060	28.690	19.4	26.4	25.3	31.2	15.8	23.5	52	−1	15	18	18	82	68	70	0.091	0.102	0.102	1.07	0.91	3.7	4.5	4.2	4.0
February	29.383	30.050	28.750	25.4	31.3	30.3	36.6	20.8	28.7	68	2	19	21	22	76	64	69	.116	.125	.125	.50	.20	5.5	6.1	4.2	5.8
March	29.348	29.860	28.640	35.3	41.7	38.5	44.7	32.6	38.6	67	21	30	32	32	80	68	76	.169	.185	.179	4.86	1.12	6.5	6.3	6.5	6.2
April	29.335	29.750	28.410	44.8	51.3	48.2	55.9	40.2	48.0	73	28	37	39	38	75	65	70	.232	.250	.246	3.51	2.51	5.6	6.1	5.3	5.7
May	29.253	29.639	28.660	60.5	68.4	63.5	70.8	55.7	63.2	87	50	53	52	52	76	60	68	.406	.409	.393	4.71	2.09	4.8	5.3	4.9	5.2
June	29.293	29.630	28.950	67.0	74.6	71.5	77.8	62.2	70.0	95	51	57	57	58	72	57	64	.485	.482	.492	.08	.04	3.9	4.5	3.4	3.6
July	29.322	29.640	28.940	68.9	76.3	74.0	79.2	64.7	72.0	93	55	60	59	60	75	57	64	.534	.511	.531	3.21	2.10	4.6	5.5	4.7	4.7
August	29.302	29.535	28.810	67.7	77.4	72.9	79.3	63.9	71.8	93	55	60	60	62	76	57	59	.523	.538	.563	1.02	.54	2.5	4.0	3.4	3.5
September	29.405	29.735	29.050	62.8	74.2	68.9	76.8	60.0	68.4	97	46	56	57	58	80	57	59	.474	.483	.492	3.23	1.97	3.3	2.9	3.1	3.4
October	29.302	29.640	28.870	51.0	62.3	57.6	64.9	48.9	56.9	88	34	43	44	45	74	53	65	.291	.298	.318	3.28	1.35	4.0	4.5	3.1	4.1
November	29.372	29.690	28.876	40.1	45.5	44.5	49.1	37.8	43.4	67	22	34	36	36	79	68	73	.207	.218	.233	2.28	.63	6.7	7.3	6.2	7.4
December	29.381	29.912	28.870	25.5	30.9	30.3	36.3	21.1	28.7	59	−5	20	22	22	80	68	71	.122	.126	.129	1.00	.55	5.9	5.8	6.2	6.5
Year	29.347	30.060	28.410	47.4	55.0	52.1	58.6	43.6	51.1	97	−5	40	41	42	77	62	69	.304	.311	.317	28.75	2.51	4.8	5.2	4.6	5.0

CINCINNATI, OHIO (ABBE OBSERVATORY).

[ϕ=39° 06′ N.; λ=84° 30′ W.]

January	29.524	30.020	28.790	24.5	32.9	....	37.8	20.7	29.2	61	6	20	24	25	82	69	69	0.115	0.137	0.141	2.07	0.94	6.0	5.2	4.1	5.4
February	29.459	29.910	28.930	32.3	39.1	....	43.2	28.9	36.0	71	12	27	28	31	80	63	70	.158	.165	.189	1.68	.51	7.3	3.6	6.9	7.1
March	29.392	29.710	28.700	39.6	48.5	....	53.2	36.4	44.8	76	21	33	37	40	79	66	72	.201	.233	.259	6.56	2.46	7.8	7.0	6.3	7.0
April	29.401	29.750	28.620	50.1	61.5	....	66.1	45.2	55.6	83	33	42	44	49	76	54	67	.294	.315	.377	4.32	1.83	6.6	5.3	5.0	5.3
May	29.302	29.687	28.670	63.3	74.5	....	77.0	56.6	66.8	87	48	55	56	57	76	54	62	.448	.456	.472	2.09	.83	5.4	5.5	6.4	5.5
June	29.328	29.526	29.080	69.7	80.8	....	84.7	62.7	73.7	92	54	52	61	63	77	53	58	.559	.548	.587	1.77	.72	4.7	5.0	5.5	5.0
July	29.371	29.580	29.140	71.4	82.5	....	85.8	64.9	75.4	96	53	53	61	66	75	50	63	.583	.554	.656	2.45	.84	4.0	5.0	5.7	4.4
August	29.344	29.580	28.980	67.7	81.7	....	85.0	62.4	73.7	97	52	60	59	62	77	48	58	.528	.513	.566	5.60	2.69	3.7	4.0	4.8	4.2
September	29.437	29.660	29.190	62.8	79.5	....	82.2	58.9	70.6	93	44	58	59	61	84	51	61	.495	.514	.551	2.98	1.92	2.0	2.1	3.0	2.2
October	29.366	29.740	28.930	49.2	66.2	....	69.4	46.4	57.9	88	32	45	44	47	86	48	59	.315	.308	.343	1.23	.53	3.5	3.8	3.0	3.7
November	29.467	29.760	28.880	40.5	51.4	....	54.9	37.8	46.4	73	22	35	36	38	79	56	64	.211	.229	.249	1.88	1.06	4.9	5.3	3.8	5.3
December	29.439	29.930	28.880	32.2	39.4	....	43.6	26.9	35.2	66	6	28	30	32	85	70	74	.168	.186	.194	4.60	1.10	6.7	7.0	6.0	6.9
Year	29.402	30.080	28.620	50.3	61.5	....	65.2	45.6	55.4	97	6	44	45	48	80	57	65	.340	.347	.382	36.58	2.69	5.2	4.9	5.0	5.2

Annual meteorological summary for the year ending December 31, 1922—Continued.

CHEYENNE, WYO.

[H_b=6,088 ft.; h_t=84 ft.; h_r=75 ft.; h_a=101 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction of time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	14.3	W.	71	W.	9	4	3	1	1	7	10	23	13	0	16	9	6	4	3	8	4	0	1	17	0	31	0	0
February	17.0	W.	61	W.	14	5	3	2	2	3	8	25	8	0	6	16	6	6	6	12	6	0	0	13	0	27	0	1
March	14.1	W.	53	W.	10	4	3	0	0	12	5	21	17	0	12	9	10	5	3	7	4	0	0	3	0	26	0	0
April	12.8	W.	60	W.	3	12	6	3	7	10	5	11	6	0	7	7	16	16	15	15	10	1	5	2	0	23	5	0
May	14.7	W.	68	W.	4	11	4	1	6	5	4	18	13	0	8	13	10	10	7	7	4	3	0	0	0	8	7	0
June	10.5	W.	39	SW.	0	3	5	4	10	7	4	16	11	0	13	17	0	7	5	0	0	2	1	0	2	1	12	0
July	10.3	W.	49	W.	5	4	9	7	4	4	7	15	12	0	12	13	6	14	9	0	0	1	0	0	3	0	13	0
August	9.6	W.	41	W.	1	5	3	3	5	10	4	18	13	1	12	17	2	15	10	0	0	2	0	0	1	0	21	0
September	9.7	W.	40	NW.	1	8	3	3	2	11	3	21	9	0	15	13	2	5	3	0	0	0	0	0	0	0	4	0
October	11.1	W.	40	W.	1	7	6	2	3	4	7	19	14	0	19	6	6	4	2	3	3	0	0	0	0	14	0	0
November	12.6	NW.	62	W.	5	10	3	2	1	5	6	15	18	0	13	7	10	7	6	8	7	0	1	3	0	27	0	0
December	15.3	W.	60	W.	9	6	1	2	0	7	6	27	13	0	9	12	10	4	3	8	4	0	0	7	0	27	0	0
Year	12.7	W.	71	W.	62	79	49	30	41	85	69	229	147	1	142	139	84	97	72	66	42	9	8	45	6	184	62	1

CHICAGO, ILL.

[H_b=823 ft.; h_t=140 ft.; h_r=133 ft.; h_a=310 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction of time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	13.0	SW.	42	SW.	2	0	12	3	6	9	13	11	3	0	12	10	9	9	4	12	7	0	1	15	0	30	0	0
February	14.2	W.	47	SW.	2	3	5	2	5	9	13	10	9	0	7	6	15	9	4	15	5	0	3	13	0	25	1	0
March	14.7	N.	49	SE.	1	12	16	1	5	10	7	2	9	0	8	6	17	14	12	9	3	0	2	1	0	11	1	0
April	12.7	N.	54	W.	2	10	13	2	8	5	11	6	5	0	10	6	14	13	11	1	0	1	1	0	0	1	7	0
May	9.8	S.	30	S.	0	10	9	6	6	12	8	7	4	0	10	12	9	13	9	0	0	0	0	0	0	0	5	0
June	10.3	N.	35	W.	0	20	7	3	6	2	15	3	4	0	13	13	4	4	1	0	0	0	0	0	4	0	3	0
July	9.7	NE.	38	S.	0	10	13	6	4	4	13	9	3	0	12	10	9	7	5	0	0	0	0	0	3	0	4	0
August	8.7	S.	48	NW.	1	10	5	10	7	11	6	4	9	0	19	10	2	6	3	0	0	1	0	0	3	0	7	0
September	9.4	SW.	26	N.	0	13	8	9	4	13	9	4	0	0	18	8	4	7	4	0	0	0	0	0	6	0	3	0
October	11.5	NW.	33	S.	0	7	4	7	5	8	10	6	15	0	15	9	7	8	8	0	0	0	0	0	0	0	0	0
November	13.5	W.	44	SW.	1	0	3	1	7	8	13	11	17	0	5	5	20	12	7	6	1	0	0	0	0	7	1	0
December	12.7	W.	36	S.	0	2	6	0	4	16	9	15	10	0	8	6	17	10	7	4	4	0	2	10	0	26	0	0
Year	11.7	SW.	54	W.	9	97	101	50	67	107	127	88	93	0	137	101	127	112	75	47	20	2	9	39	16	100	32	0

CHICAGO UNIVERSITY, ILL.

[H_b=673 ft.; h_t=7 ft.; h_r=3 ft.; h_a=131 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction of time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	12.2	SW.	42	W.	2	0	5	9	9	4	12	8	15	0	14	10	7	7	3	12	5	0	1	18	0	30	0	0
February	13.6	SW.	44	SW.	2	1	7	4	7	6	11	8	12	0	8	8	12	7	5	13	3	0	2	12	0	26	2	0
March	14.2	NE.	40	SW.	1	6	16	7	7	9	5	4	7	1	9	5	17	15	11	6	4	0	1	1	0	10	1	0
April	12.8	NE.	52	W.	2	4	15	7	13	3	11	4	3	0	10	6	14	14	12	1	0	0	1	0	0	2	4	0
May	9.2	NE.	34	NW.	0	3	12	8	10	12	7	6	4	0	10	12	9	14	12	0	0	0	0	0	0	0	5	0
June	10.1	NE.	34	SW.	0	7	15	9	6	2	14	3	4	0	15	11	4	3	1	0	0	0	0	0	3	0	3	0
July	9.3	NE.	39	NW.	0	3	19	6	3	8	11	6	6	0	15	6	10	7	5	0	0	0	0	0	2	0	3	0
August	8.7	NE.	51	NW.	1	4	10	9	8	14	2	6	8	1	16	13	2	6	4	0	0	0	0	0	3	0	6	0
September	9.2	NE.	29	NE.	0	4	17	10	5	12	9	2	1	0	19	6	5	7	4	0	0	0	1	0	6	0	2	0
October	10.9	SW.	38	NE.	0	2	8	5	8	7	11	6	15	0	15	10	6	7	7	0	0	0	1	0	0	0	0	0
November	13.4	SW.	36	SW.	0	1	2	2	6	7	17	12	13	0	5	5	20	13	8	4	1	0	0	1	0	9	1	0
December	12.8	W.	37	SE.	0	0	8	0	12	8	11	13	10	0	8	7	16	10	6	4	4	0	2	12	0	28	0	0
Year	11.4	SW.	52	W.	8	35	134	76	94	92	121	78	98	2	144	99	122	110	78	40	17	0	9	44	14	105	27	0

CINCINNATI, OHIO (ABBE OBSERVATORY).

[H_b=628 ft.; h_t=11 ft.; h_r= 3 ft.; h_a=51 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction of time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	8.8	NE.	30	NW.	0	7	15	5	8	4	12	4	7	0	12	8	11	10	8	6	3	0	2	9	0	27	1	0
February	10.1	SW.	39	SW.	0	7	10	3	8	7	9	5	7	0	4	12	12	12	9	5	2	0	2	5	0	18	0	0
March	9.8	NE.	54	SW.	2	6	10	5	11	9	7	9	4	1	8	3	20	19	16	5	5	0	1	2	0	12	7	0
April	9.2	NE.	46	SW.	1	4	15	6	6	7	11	3	7	1	8	15	7	11	8	1	0	0	0	0	0	0	5	0
May	5.7	SW.	26	SW.	0	8	9	8	12	6	9	6	4	0	9	12	10	11	8	0	0	0	0	0	0	0	10	0
June	6.0	SW.	32	NW.	0	10	15	4	7	3	14	2	4	1	11	13	6	9	6	0	0	0	0	0	4	0	5	0
July	6.2	SW.	24	SW.	0	12	14	5	2	4	19	3	2	1	14	9	8	8	7	0	0	0	1	0	9	0	9	0
August	5.1	NE.	36	NW.	0	8	16	8	5	5	7	5	6	2	14	12	5	9	8	0	0	0	0	0	6	0	10	0
September	4.9	NE.	16	SW.	0	10	15	6	7	8	7	4	0	3	24	3	3	5	4	0	0	0	2	0	9	0	4	0
October	5.5	NW.	29	SW.	0	4	12	5	5	9	9	3	11	4	18	5	8	7	6	0	0	0	1	0	0	1	1	0
November	7.7	SW.	27	SW.	0	1	4	4	7	9	13	11	10	1	10	10	10	7	4	4	1	0	0	0	0	10	0	0
December	7.9	SW.	28	NE.	0	7	7	6	11	7	10	3	11	0	6	9	16	10	10	4	3	0	3	4	0	22	1	0
Year	7.2	SW.	54	SW.	3	84	142	65	89	78	127	58	73	14	138	111	116	118	94	25	14	0	12	20	28	90	53	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

CLEVELAND, OHIO.

[ϕ=41° 30′ N.; λ=81° 42′ W.]

Month.	Pressure.			Temperature.									Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.343	29.890	28.740	22.1	26.5	27.3	32.6	18.7	25.6	56	2	16	17	19	73	67	69	0.094	0.102	0.110	1.52	0.57	6.0	6.3	5.1	6.0
February	29.270	29.810	28.630	28.9	32.4	31.9	38.5	24.9	31.7	68	7	23	24	25	76	71	73	.131	.141	.144	1.31	.29	7.4	7.4	7.2	7.6
March	29.241	29.770	28.480	34.3	39.6	40.7	47.0	30.7	38.8	73	18	29	32	33	80	74	74	.167	.183	.198	4.02	1.15	7.6	7.3	6.5	7.3
April	29.247	29.645	28.430	45.3	50.2	50.0	56.2	41.0	48.6	79	30	38	39	39	76	67	68	.249	.258	.257	2.10	.60	6.5	5.4	5.2	5.7
May	29.163	29.580	28.380	58.6	62.1	64.5	68.1	54.5	61.3	82	44	50	51	50	74	69	64	.367	.382	.378	2.42	1.01	5.1	5.4	4.9	5.1
June	29.175	29.430	28.810	66.1	70.5	70.9	76.0	61.1	68.6	92	53	57	58	56	73	67	62	.474	.498	.462	2.66	1.16	5.0	5.4	5.7	5.4
July	29.215	29.490	28.940	69.0	74.6	74.2	78.4	64.8	71.6	90	52	59	59	59	72	60	60	.512	.510	.504	3.98	1.75	5.5	5.3	5.4	5.2
August	29.194	29.491	28.762	66.2	73.5	73.0	76.7	62.5	69.6	92	51	57	58	56	74	60	57	.482	.502	.459	1.20	.63	4.5	4.2	4.3	4.5
September	29.302	29.601	29.020	62.2	71.9	70.0	74.7	59.2	67.0	92	42	54	57	57	75	62	64	.433	.473	.476	1.60	.60	5.0	3.5	3.7	4.1
October	29.192	29.620	28.670	50.6	58.9	56.8	62.5	48.3	55.4	83	35	42	45	44	73	62	65	.288	.322	.312	1.58	.79	5.4	4.8	4.4	5.2
November	29.263	29.645	28.730	41.0	46.8	45.6	50.0	38.4	44.2	67	21	34	35	34	74	64	66	.202	.214	.206	1.37	.39	7.9	8.0	8.1	8.0
December	29.267	29.730	28.790	30.1	38.1	32.3	38.3	25.2	31.8	63	8	24	26	25	76	72	73	.136	.145	.140	2.45	.85	7.8	7.3	6.5	7.5
Year	29.239	29.890	28.380	47.9	53.3	53.1	58.2	44.1	51.2	92	2	40	42	41	75	66	66	.295	.311	.304	26.21	1.75	6.1	5.9	5.6	6.0

COLUMBIA, MO.

[ϕ=38° 57′ N.; λ=92° 20′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.340	29.880	28.670	23.3	32.1	....	37.4	19.3	28.4	63	−3	18	20	....	80	62	....	0.109	0.117	....	1.53	1.18	5.4	4.8	....	4.6
February	29.265	29.850	28.740	29.0	37.7	....	43.9	24.8	34.4	74	7	22	22	....	76	53	....	.130	.132	....	1.23	.58	5.7	5.0	....	5.1
March	29.159	29.650	28.610	39.5	47.7	....	53.9	35.5	44.7	74	11	33	36	....	80	65	....	.204	.222	....	8.46	3.88	7.4	6.6	....	7.0
April	29.145	29.579	28.300	49.8	60.0	....	65.9	46.2	56.0	87	32	45	46	....	83	63	....	.310	.328	....	9.93	2.60	5.2	5.6	....	5.4
May	29.089	29.393	28.690	60.0	72.5	....	76.0	56.4	66.2	87	47	56	60	....	86	67	....	.453	.533	....	4.34	1.13	5.1	6.1	....	5.3
June	29.150	29.380	28.880	69.4	82.3	....	86.4	64.9	75.6	97	50	64	66	....	82	60	....	.595	.648	....	2.01	.72	4.6	5.6	....	4.6
July	29.182	29.450	28.900	69.4	82.2	....	86.4	65.1	75.8	96	50	64	64	....	83	56	....	.601	.614	....	3.49	1.08	5.3	5.2	....	4.6
August	29.168	29.330	28.890	68.8	83.6	....	87.5	65.8	76.6	99	52	63	62	....	82	51	....	.586	.572	....	3.30	1.14	3.8	4.7	....	4.1
September	29.245	29.530	28.960	62.4	78.0	....	81.9	59.7	70.8	100	44	57	58	....	83	53	....	.484	.502	....	3.79	2.85	3.7	2.6	....	3.1
October	29.186	29.560	28.840	49.3	67.1	....	71.3	47.4	59.4	89	30	44	49	....	82	54	....	.300	.359	....	1.50	.95	3.1	3.1	....	3.3
November	29.257	29.580	28.720	41.5	51.2	....	56.4	38.4	47.4	73	22	36	39	....	81	63	....	.228	.247	....	2.37	1.15	4.5	4.1	....	4.3
December	29.250	29.790	28.750	29.2	38.7	....	44.9	23.7	34.3	72	3	23	28	....	78	66	....	.137	.169	....	1.38	.96	5.2	5.5	....	5.2
Year	29.203	29.880	28.300	49.3	61.1	....	66.0	45.6	55.8	100	−3	44	46	....	81	59	....	.345	.370	....	43.33	3.88	4.9	4.9	....	4.7

COLUMBIA, S. C.

[ϕ=34° 00′ N.; λ=81° 03′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.818	30.160	28.880	39.2	47.4	45.6	51.9	36.3	44.1	78	24	34	35	37	81	66	72	0.214	0.223	0.236	2.22	1.12	6.5	6.7	5.5	6.8
February	29.778	30.190	29.200	47.4	56.0	55.2	61.8	44.9	53.4	77	24	44	45	45	87	69	69	.310	.328	.320	5.73	1.83	7.0	7.1	5.1	7.1
March	29.757	30.110	29.240	50.2	62.2	58.7	66.9	46.5	56.7	81	32	45	43	43	83	53	60	.325	.310	.305	6.51	2.20	4.2	4.8	4.3	5.0
April	29.743	30.080	29.250	53.6	69.0	66.8	74.6	54.1	64.4	90	41	52	50	51	80	55	61	.406	.392	.394	6.53	2.18	4.9	5.4	4.6	5.5
May	29.617	30.020	29.150	66.5	77.0	72.8	80.7	62.7	71.7	90	51	61	58	59	82	55	65	.544	.499	.513	2.85	.87	5.4	6.2	5.9	6.0
June	29.642	29.840	29.440	73.5	84.3	79.0	88.7	69.3	79.0	95	65	68	65	68	82	53	71	.678	.619	.686	4.96	1.65	4.6	5.3	6.4	5.4
July	29.698	29.890	29.490	75.3	85.5	78.1	88.9	71.5	80.2	96	68	71	70	70	86	61	78	.757	.735	.740	7.39	2.43	4.3	6.2	7.1	6.0
August	29.649	29.880	29.420	71.1	81.9	77.5	85.9	68.0	77.0	95	59	67	64	66	88	57	70	.671	.614	.650	1.76	.41	6.2	5.7	4.9	5.6
September	29.709	29.920	29.510	69.1	82.9	76.9	85.9	66.5	76.2	96	57	63	59	63	81	46	63	.590	.525	.589	2.19	1.62	3.0	4.4	4.1	4.2
October	29.660	29.960	29.310	57.8	72.1	67.0	75.2	55.2	65.2	86	42	52	51	53	82	50	64	.413	.396	.431	6.65	2.82	4.2	3.7	3.8	4.1
November	29.791	30.120	29.140	47.0	62.2	57.8	65.8	45.2	55.5	78	27	41	40	42	80	46	56	.281	.280	.291	.44	.32	3.7	3.1	2.4	3.7
December	29.772	30.110	29.210	46.4	55.4	53.4	60.1	43.8	52.0	76	29	42	42	45	84	65	74	.283	.296	.319	2.61	.70	6.7	7.5	6.9	7.2
Year	29.720	30.190	28.880	58.5	69.7	65.7	73.9	55.3	64.6	96	24	53	52	54	83	56	67	.456	.435	.456	49.84	2.82	5.1	5.5	5.1	5.6

COLUMBUS, OHIO.

[ϕ=39° 58′ N.; λ=83° 00′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.293	29.820	28.600	22.7	29.8	29.8	35.7	18.7	27.2	59	3	17	21	21	77	69	69	0.100	0.122	0.124	1.80	0.93	4.8	6.0	4.2	5.3
February	29.229	29.680	28.690	30.8	36.4	35.4	40.6	26.9	33.8	68	8	23	28	27	72	69	70	.134	.161	.161	1.58	.56	6.6	7.9	6.7	7.5
March	29.182	29.650	28.480	38.2	44.7	45.7	51.7	34.6	43.2	73	29	31	35	36	76	70	70	.188	2.17	.223	4.54	1.37	8.0	7.5	6.5	7.3
April	29.198	29.580	28.470	48.0	57.7	57.2	62.7	43.5	53.1	79	30	41	45	42	78	65	60	.279	.325	.297	3.05	1.45	6.5	6.1	5.3	5.3
May	29.107	29.510	28.450	61.4	70.7	69.1	74.5	56.6	65.6	86	49	54	56	54	77	62	62	.425	.457	.434	5.28	1.29	5.5	5.9	5.6	4.9
June	29.131	29.325	28.780	67.4	77.7	74.7	81.4	61.9	71.6	93	51	60	62	62	77	61	66	.521	.574	.562	3.14	2.06	5.5	6.5	5.2	5.7
July	29.174	29.368	28.940	69.6	79.3	78.0	83.3	64.1	73.7	92	52	61	62	62	75	57	60	.544	.567	.573	2.29	.94	4.5	5.6	4.8	4.7
August	29.150	29.410	28.740	65.8	77.4	75.1	81.2	61.6	71.4	94	51	58	58	58	76	53	57	.490	.492	.490	1.94	1.09	3.6	5.6	3.9	4.9
September	29.246	29.490	28.900	62.6	76.7	73.1	80.6	58.7	69.6	93	45	56	57	57	78	52	58	.459	.477	.475	2.68	1.60	2.2	3.0	2.2	2.8
October	29.156	29.540	28.670	49.9	63.4	60.2	67.5	47.3	57.4	88	34	43	45	44	78	54	57	.293	.322	.303	1.56	.43	4.1	4.6	3.5	4.7
November	29.246	29.561	28.680	39.2	48.2	46.1	51.6	37.2	44.4	69	20	34	36	36	80	64	69	.205	.230	.231	1.57	.49	6.4	7.5	5.3	6.9
December	29.226	29.700	28.660	30.4	33.7	35.0	41.3	26.0	33.6	64	4	26	28	29	82	75	78	.149	.179	.168	2.69	.76	6.6	7.0	6.1	6.8
Year	29.195	29.820	28.450	48.8	58.1	56.6	62.7	44.8	53.7	94	3	42	44	44	77	63	65	.316	.343	.337	32.10	2.06	5.4	6.1	4.9	5.6

Annual meteorological summary for the year ending December 31, 1922—Continued.

CLEVELAND, OHIO.

[H_b=762 ft.; h_t=190 ft.; h_r=165 ft.; h_a=201 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Aurora.
	Miles.		Mi.																									
January	13.8	W.	46	W.	4	5	7	4	6	12	10	10	8	0	9	9	13	9	6	13	8	0	0	18	0	30	0	0
February	14.9	S.	52	W.	3	7	3	3	3	14	6	15	5	0	0	12	16	11	8	16	9	0	0	9	0	24	0	0
March	13.1	NE.	47	W.	4	8	10	7	7	10	7	8	5	0	4	9	18	16	14	9	6	0	1	4	0	17	1	0
April	14.3	NE.	66	W.	7	4	9	8	3	14	5	8	9	0	8	12	10	15	9	4	2	1	1	0	0	3	4	0
May	9.5	NE.	39	SW.	0	3	12	7	11	11	5	6	4	3	13	9	9	10	7	0	0	0	1	0	0	0	4	0
June	10.4	NE.	36	SW.	0	9	11	2	5	7	14	5	6	1	11	11	8	11	6	0	0	1	0	0	1	0	8	0
July	10.2	N.	36	NW.	0	11	13	4	2	16	7	7	1	1	8	15	8	9	9	0	0	0	0	0	1	0	6	0
August	9.9	S.	40	NW.	1	7	11	3	7	17	9	3	5	0	14	10	7	9	6	0	0	0	0	0	1	0	3	0
September	10.8	S.	50	NE.	1	8	11	7	10	16	4	1	3	0	16	8	6	3	3	0	0	0	0	0	3	0	2	0
October	12.6	S.	41	NW.	1	2	9	4	5	16	12	4	10	0	13	7	11	9	6	0	0	0	0	0	0	0	1	0
November	15.1	SW.	48	NW	2	1	3	1	4	13	14	6	18	0	3	9	18	10	7	8	3	0	1	2	0	7	0	0
December	15.1	S.	50	NE.	3	2	8	1	5	15	18	8	5	0	3	10	18	13	8	10	5	0	2	13	0	23	0	0
Year	12.5	S.	66	W.	26	67	107	51	68	161	111	81	79	5	102	121	142	128	89	60	33	2	6	46	6	104	29	0

COLUMBIA, MO

[H_b=784 ft.; h_t=11 ft.; h_r=3 ft.; h_a=84 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Aurora.
January	8.6	E.	33	SW.	0	1	6	5	5	6	3	1	4	0	13	10	8	4	4	6	2	0	0	10	0	28	2	1
February	10.7	N.	33	SW.	0	8	4	3	4	5	3	2	1	0	11	11	6	6	6	5	2	0	1	5	0	22	0	0
March	10.7	SE.	37	NE.	0	2	5	3	7	2	3	4	5	0	5	6	20	14	10	5	2	0	0	2	0	10	7	0
April	9.7	SE.	40	W.	1	2	4	5	6	8	3	2	0	0	11	5	14	13	13	0	0	3	0	0	0	1	8	0
May	6.8	SE.	31	NW.	0	0	2	4	9	7	3	3	3	0	10	9	12	15	13	0	0	1	0	0	0	0	14	0
June	5.0	S.	26	W.	0	2	5	4	6	7	3	0	2	1	12	11	7	8	7	0	0	0	1	0	0	0	6	0
July	5.9	S.	44	W.	1	3	5	6	8	3	3	3	0	0	16	8	7	10	9	0	0	0	0	0	0	0	8	0
August	5.9	SE.	44	N.	1	1	4	4	11	4	1	3	2	1	12	13	6	8	7	0	0	0	0	0	13	0	6	0
September	6.0	S.	28	SW.	0	2	6	3	9	6	3	0	1	0	20	4	6	7	6	0	0	0	2	0	7	0	6	0
October	6.2	SE.	26	NW.	0	2	2	4	9	4	3	3	4	0	21	2	8	6	4	0	0	0	2	0	0	2	2	0
November	9.1	SW.	34	NW.	0	1	1	2	5	3	8	5	4	1	14	8	8	8	7	0	0	0	0	0	0	8	3	0
December	9.2	SE.	31	N.	0	4	4	2	6	7	3	1	4	0	9	13	9	6	3	3	1	0	0	7	0	25	2	0
Year	7.9	SE.	44	W.	3	26	48	45	85	62	39	27	30	3	154	100	111	105	89	19	7	4	6	24	38	96	64	1

COLUMBIA, S. C.

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

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Aurora.
January	8.0	*NE.	28	SW.	0	7	19	3	0	12	8	4	8	1	9	7	15	9	6	3	1	0	4	3	0	12	0	0
February	8.1	NE.	28	SW.	0	7	14	4	2	7	13	2	7	0	4	8	16	13	11	1	0	0	3	0	0	6	4	0
March	8.3	S.	39	SW.	0	3	13	8	5	14	9	6	3	1	9	11	11	13	13	0	0	0	1	0	0	1	3	0
April	7.7	SW.	37	SW.	0	9	12	3	2	9	15	7	3	0	12	6	12	11	10	0	0	0	1	0	0	0	4	0
May	6.5	NE.	25	NE.	0	4	16	7	10	10	5	6	3	1	9	5	17	10	9	0	0	0	0	0	2	0	6	0
June	5.2	S.	27	W.	0	2	10	5	7	18	5	10	3	0	7	13	10	12	11	0	0	0	0	0	9	0	14	0
July	5.6	SW.	30	S.	0	2	4	7	4	16	16	8	3	2	3	21	7	18	13	0	0	0	0	0	16	0	19	0
August	5.6	NE.	38	N.	0	1	21	10	2	12	7	5	3	1	8	13	10	9	8	0	0	0	1	0	5	0	4	0
September	5.9	NE.	22	NE.	0	11	27	6	2	6	4	1	3	0	13	15	2	6	5	0	0	0	1	0	7	0	6	0
October	5.7	NE.	25	NE.	0	9	20	11	3	5	4	4	6	0	18	3	10	10	9	0	0	0	1	0	0	0	2	0
November	5.4	NE.	20	N.	0	11	13	5	2	5	9	6	7	2	18	7	5	3	3	1	0	0	0	0	0	3	0	0
December	6.9	NE.	27	SW.	0	8	19	2	3	4	14	7	4	1	6	6	19	14	11	0	0	0	0	0	0	2	3	0
Year	6.6	NE.	39	SW.	0	74	188	71	42	118	109	66	53	9	116	115	134	128	109	5	1	0	12	3	39	24	65	0

COLUMBUS, OHIO.

[H_b=824 ft.; h_t=179 ft.; h_r=171 ft.; h_a=222 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Aurora.
January	11.8	SW.	38	NW.	0	10	5	9	6	8	7	9	7	1	11	7	13	10	8	6	5	0	2	13	0	29	0	0
February	13.7	NW.	50	W.	4	9	5	3	9	7	5	8	10	0	2	11	15	9	8	8	2	0	1	6	0	23	1	0
March	13.3	SE.	50	SW.	4	5	8	9	10	9	5	7	9	0	5	7	19	15	12	9	3	0	1	3	0	14	3	0
April	12.9	NW.	53	NW.	4	4	10	9	9	5	9	1	13	0	9	12	9	8	7	0	0	0	0	0	0	2	6	0
May	8.7	SE.	38	W.	0	10	6	9	12	7	5	5	7	1	9	16	6	12	12	0	0	0	0	0	0	0	9	0
June	8.9	N.	36	NW.	0	13	7	6	13	3	10	2	5	1	7	15	8	9	5	0	0	0	0	0	3	0	10	0
July	9.3	SW.	36	NW.	0	17	8	3	9	10	10	1	4	0	10	17	4	8	7	0	0	0	0	0	4	0	6	0
August	8.0	N.	48	NW.	1	12	12	4	13	6	5	1	8	1	13	12	6	9	8	0	0	0	0	0	3	0	7	0
September	7.8	S.	42	NW.	1	14	6	5	9	13	7	4	1	1	20	6	4	6	6	0	0	1	0	0	5	0	4	0
October	9.5	S.	37	NW.	0	5	4	8	9	14	7	6	9	0	13	8	10	8	6	0	0	0	0	0	0	0	2	0
November	11.4	S.	37	NW.	0	2	2	4	4	19	6	7	16	0	6	7	17	10	7	5	3	0	1	2	0	10	1	0
December	11.6	S.	41	N.	2	8	4	6	9	16	3	7	9	0	6	7	18	11	9	6	3	0	1	6	0	22	0	0
Year	10.6	NW.	53	NW.	16	109	77	75	112	117	79	58	98	5	111	125	129	115	95	34	16	1	6	30	15	100	40	0

*By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1922—Continued.

CONCORD, N. H.

[ϕ=43° 12′ N.; λ=71° 32′ W.]

Month.	Pressure.			Temperature.									Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum for 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.806	30.280	28.580	12.8	22.9	....	28.1	7.5	17.8	43	−23	7	15	....	76	69	....	0.068	0.089	....	1.73	0.80	4.0	3.9	....	4.0
February	29.776	30.260	28.980	18.3	26.2	....	33.1	14.2	23.6	53	−16	12	18	....	75	68	....	.085	.101	....	2.65	.72	6.3	6.4	....	6.2
March	29.750	30.270	28.990	29.8	39.2	....	43.3	26.0	34.6	72	7	24	27	....	79	62	....	.139	.161	....	5.00	1.42	4.4	5.2	....	4.7
April	29.685	30.100	29.060	42.4	51.9	....	55.8	34.7	45.2	83	27	34	38	....	74	62	....	.208	.242	....	2.11	.61	4.7	5.4	....	4.5
May	29.704	30.150	29.240	56.5	66.3	....	71.1	45.9	58.5	85	28	46	48	....	69	56	....	.315	.347	....	5.30	3.05	3.9	4.9	....	3.2
June	29.642	29.900	29.040	63.8	71.0	....	75.7	56.5	66.1	91	45	58	59	....	82	69	....	.489	.504	....	7.88	1.85	6.3	7.1	....	6.4
July	29.713	29.951	29.440	67.2	76.7	....	80.6	58.4	69.5	93	45	62	62	....	82	63	....	.557	.568	....	1.89	1.16	5.0	6.3	....	5.1
August	29.676	30.060	29.250	64.8	74.4	....	78.2	57.2	67.7	94	43	59	59	....	82	61	....	.505	.515	....	2.63	.77	5.4	5.5	....	5.4
September	29.813	30.200	29.290	55.1	68.6	....	73.0	48.7	60.8	86	30	52	57	....	90	68	....	.405	.484	....	2.72	1.42	5.5	4.4	....	4.5
October	29.654	30.210	29.100	44.0	55.0	....	59.8	38.1	49.0	88	18	39	44	....	82	70	....	.258	.318	....	2.27	.86	4.3	5.1	....	5.7
November	29.662	30.050	28.970	35.5	43.2	....	46.2	30.5	38.4	64	11	30	32	....	78	64	....	.173	.185	....	1.12	.78	5.8	6.2	....	6.2
December	29.808	30.350	29.340	18.8	26.3	....	31.7	14.1	22.9	59	−13	14	21	....	82	79	....	.091	.115	....	1.73	.54	6.5	6.7	....	6.5
Year	29.724	30.350	28.580	42.4	51.8	....	56.4	36.0	46.2	94	−23	36	40	....	79	66	....	.274	.302	....	37.03	3.05	5.2	5.6	....	5.2

CONCORDIA, KANS.

[ϕ=39° 35′ N.; λ=97° 41′ W.]

January	28.648	29.220	28.040	19.2	30.2	30.5	37.2	16.7	27.0	57	0	16	20	20	86	66	67	0.092	0.108	0.112	0.38	0.19	4.2	5.8	4.6	5.7
February	28.612	29.260	28.030	23.1	34.9	35.6	43.4	18.7	31.0	70	2	18	21	20	79	59	56	.104	.118	.112	1.12	.88	4.1	4.3	3.7	4.4
March	28.503	29.130	27.860	33.8	45.9	47.2	51.9	31.8	41.8	76	5	29	33	34	83	62	62	.169	.194	.210	2.59	1.01	5.7	5.3	5.3	5.6
April	28.471	28.940	27.690	46.9	59.0	59.8	64.5	44.4	54.4	82	34	41	41	41	82	56	58	.271	.270	.269	2.33	.92	5.8	5.3	5.4	5.7
May	28.449	28.770	28.030	57.0	69.2	69.1	73.9	54.5	64.2	85	46	51	51	53	82	56	59	.392	.400	.416	3.54	1.26	6.1	6.4	5.5	6.4
June	28.496	28.760	28.110	67.5	82.6	85.1	87.6	64.5	76.0	97	47	60	59	58	77	46	41	.518	.509	.490	2.10	1.51	4.9	3.4	2.8	4.0
July	28.534	28.840	28.100	68.0	81.9	81.9	86.1	64.8	75.4	96	56	62	62	64	83	52	56	.570	.568	.509	5.82	1.42	5.0	4.9	3.8	4.7
August	28.495	28.690	28.230	70.0	87.7	88.0	92.9	68.3	80.6	107	57	62	60	60	77	40	40	.567	.524	.520	.88	.83	4.3	3.5	3.3	3.8
September	28.568	28.930	28.260	63.2	80.0	77.6	84.7	61.2	73.0	106	42	52	52	51	68	41	43	.402	.402	.392	1.35	.52	3.5	3.6	3.3	3.7
October	28.520	28.908	28.060	48.7	68.2	63.9	73.3	46.4	59.8	90	26	40	39	39	72	37	42	.256	.251	.248	1.14	.46	2.5	2.6	2.7	3.1
November	28.508	28.950	27.920	38.6	50.3	46.8	54.9	34.8	44.8	72	22	33	34	35	79	55	65	.196	.205	.212	2.05	.80	4.1	4.2	3.6	4.5
December	28.576	29.130	27.970	24.1	37.0	34.6	42.2	20.5	31.4	62	0	19	22	22	80	56	62	.104	.116	.115	T.	T.	2.6	4.6	2.7	5.1
Year	28.539	29.260	27.690	46.7	60.6	60.0	66.0	43.9	55.0	107	0	40	41	41	79	52	54	.303	.305	.308	23.30	1.51	4.4	4.5	3.9	4.7

CORPUS CHRISTI, TEX.

[ϕ=27° 49′ N.; λ=97° 25′ W.]

January	30.104	30.540	29.609	49.9	56.2	54.8	60.7	46.3	53.5	77	30	45	45	47	86	70	76	0.322	0.322	0.340	1.12	0.62	7.2	7.6	6.5	7.4
February	30.054	30.620	29.700	57.4	65.7	61.2	68.5	54.0	61.2	80	36	52	54	53	84	69	76	.419	.452	.430	.51	.34	6.1	5.5	5.6	5.6
March	30.015	30.460	29.640	58.6	68.8	67.0	72.5	56.3	64.6	89	29	52	54	56	82	63	70	.439	.467	.478	.65	.37	4.5	5.2	4.4	5.0
April	29.912	30.440	29.600	72.0	77.4	75.4	79.7	69.5	74.6	92	56	66	67	67	83	72	76	.667	.679	.673	2.96	2.05	8.0	6.6	7.8	7.1
May	29.863	30.070	29.671	75.7	83.7	79.8	85.3	73.3	79.3	91	66	71	70	72	85	66	76	.763	.749	.774	6.31	2.32	5.8	6.3	6.5	5.9
June	29.939	30.140	29.820	77.6	85.0	83.5	87.2	75.1	81.2	91	71	73	72	73	86	66	70	.806	.793	.803	3.68	2.96	4.5	5.8	4.7	4.9
July	30.007	30.190	29.880	79.4	87.1	84.1	89.2	77.6	83.4	95	75	75	75	75	86	67	74	.866	.858	.868	.03	.03	3.4	4.6	3.9	3.9
August	29.941	30.130	29.825	78.8	87.7	84.7	89.6	77.7	83.6	93	74	74	74	75	87	65	72	.848	.839	.861	.20	.16	4.5	5.3	4.2	4.3
September	29.946	30.150	29.820	75.9	83.7	81.6	85.9	74.8	80.4	92	70	72	72	73	88	69	75	.793	.788	.805	13.89	6.18	4.9	5.7	5.5	5.4
October	29.941	30.250	29.700	67.1	78.6	75.1	81.5	65.3	73.4	90	57	61	62	64	81	56	70	.559	.575	.612	5.88	2.34	4.4	3.2	3.4	3.5
November	30.062	30.290	29.850	62.3	69.4	67.3	72.3	60.0	66.2	84	45	58	59	60	86	71	79	.514	.596	.548	3.47	2.03	7.1	7.8	6.7	7.4
December	30.060	30.410	29.710	57.8	67.0	64.4	70.9	55.3	63.1	83	38	52	54	57	83	67	77	.438	.466	.487	.01	.01	5.0	5.6	4.6	5.5
Year	29.987	30.620	29.600	67.7	75.9	73.2	78.6	65.5	72.0	95	29	63	63	64	85	67	74	.620	.626	.640	38.65	6.18	5.4	5.8	5.3	5.5

DALLAS, TEX.

[ϕ=32° 46′ N.; λ=96° 47′ W.]

January	29.624	30.000	29.060	38.1	46.2	....	50.9	35.4	43.2	74	22	31	32	....	75	60	....	0.189	0.191	....	2.09	0.84	7.2	7.0	....	7.2
February	29.527	30.000	29.160	46.7	55.5	....	61.8	43.1	52.4	88	21	39	38	....	76	56	....	.268	.252	....	2.38	.59	6.2	6.6	....	6.1
March	29.466	29.900	29.030	47.5	60.5	....	66.6	44.9	55.8	80	18	40	40	....	76	50	....	.278	.272	....	1.82	1.00	5.5	4.5	....	4.1
April	29.405	29.940	28.950	60.5	69.3	....	74.2	57.3	65.8	84	43	54	53	....	81	60	....	.445	.427	....	13.04	6.08	7.0	6.6	....	6.6
May	29.353	29.540	29.130	67.6	78.8	....	83.2	65.8	74.5	95	54	62	61	....	82	57	....	.562	.548	....	6.66	4.37	5.4	5.0	....	5.3
June	29.432	29.600	29.230	73.2	85.2	....	89.6	70.8	80.2	98	59	67	66	....	83	55	....	.673	.642	....	3.38	2.03	5.6	4.6	....	4.9
July	29.462	29.670	29.290	76.6	90.2	....	94.5	74.3	84.4	101	66	69	70	....	78	47	....	.711	.657	....	1.40	1.21	4.3	3.8	....	3.9
August	29.419	29.540	29.240	76.1	90.8	....	94.9	74.7	84.8	102	65	67	65	....	75	43	....	.669	.615	....	.53	.28	4.3	4.2	....	4.5
September	29.484	29.630	29.280	69.8	86.2	....	90.3	68.5	79.4	98	54	62	60	....	76	42	....	.559	.521	....	.68	.63	2.6	2.8	....	3.3
October	29.454	29.810	29.190	57.2	74.6	....	78.9	55.8	67.4	89	42	49	49	....	76	44	....	.365	.368	....	2.87	1.16	3.8	3.4	....	4.0
November	29.578	29.860	29.260	49.9	62.6	....	66.6	48.2	57.4	82	37	43	44	....	78	53	....	.297	.302	....	2.94	1.86	6.5	4.9	....	6.2
December	29.531	29.870	29.130	46.4	57.5	....	63.3	42.2	52.8	81	23	39	40	....	74	54	....	.275	.279	....	.37	.14	5.9	5.0	....	5.1
Year	29.478	30.000	28.950	59.1	71.4	....	76.2	56.8	66.5	102	18	52	52	....	78	52	....	.441	.423	....	38.16	6.08	5.4	4.9	....	5.1

Annual meteorological summary for the year ending December 31, 1922—Continued.

CONCORD, N. H.

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

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	5.3	NW.	38	W.	0	7	5	2	0	2	1	5	8	1	18	5	8	6	6	7	5	0	0	18	0	31	0	0
February	5.3	NW.	29	W.	0	9	2	1	1	0	3	5	7	0	9	5	14	10	7	10	8	0	0	10	0	27	0	0
March	5.6	NW.	27	NW.	0	11	4	2	3	1	1	2	7	0	16	4	11	11	11	7	5	0	1	4	0	23	2	0
April	6.9	NW.	31	NW.	0	3	5	2	3	1	4	2	10	0	12	10	8	10	8	3	2	0	0	1	0	14	2	0
May	5.8	N.	31	S.	0	9	8	4	5	1	1	0	3	0	23	3	5	6	6	0	0	0	0	0	0	1	2	0
June	4.7	SE.	32	NW.	0	6	4	2	8	3	4	3	0	0	8	10	12	17	13	0	0	0	0	0	1	0	6	0
July	3.7	SE.	15	NW.	0	9	3	2	6	4	4	1	1	1	11	11	9	10	8	0	0	0	0	0	2	0	4	0
August	3.9	S.	22	N.	0	9	4	4	0	4	3	1	5	1	13	5	13	12	10	0	0	0	0	0	1	0	6	1
September	3.7	S.	22	NW.	0	12	1	1	3	7	1	0	5	0	13	8	9	6	6	0	0	0	2	0	0	1	2	0
October	5.8	NW.	37	W.	0	8	4	2	0	4	3	2	8	0	10	8	13	6	6	2	0	0	1	0	0	11	2	0
November	5.5	NW.	23	W.	0	5	0	2	1	1	3	8	10	0	10	5	15	6	4	3	0	0	0	3	0	20	0	0
December	4.8	NW.	32	W.	0	7	4	3	2	4	0	3	8	0	8	6	17	12	9	16	11	0	0	18	0	30	0	0
Year	5.1	N.	38	W.	0	95	44	27	32	32	28	32	72	3	151	80	134	112	94	48	31	0	4	54	4	158	26	1

CONCORDIA, KANS.

[H_b=1,392 ft.; h_t=50 ft.; h_r=42 ft.; h_a=58 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	9.4	S.	37	N.	0	6	5	4	11	12	8	3	12	1	10	8	13	5	4	6	3	0	1	8	0	31	0	0
February	9.8	N.	37	NW.	0	9	7	7	4	10	1	10	8	0	13	9	6	3	3	3	2	0	0	7	0	23	1	0
March	10.6	S.	34	NW.	0	16	4	2	13	10	3	4	8	2	10	9	12	12	12	5	5	1	0	2	0	17	3	0
April	10.3	S.	44	NW.	1	7	8	12	9	11	3	3	7	0	12	4	14	10	5	1	1	0	4	0	0	0	0	0
May	8.5	S.	34	SW.	0	14	6	3	5	15	4	10	5	0	4	18	9	14	11	0	0	1	0	0	0	0	7	0
June	7.7	S.	30	NE.	0	5	6	7	5	29	0	5	1	2	13	16	1	7	5	0	0	0	0	0	12	0	5	0
July	7.0	S.	46	NW.	1	9	5	11	11	18	1	1	6	0	9	18	4	12	9	0	0	0	0	0	9	0	10	0
August	6.5	S.	32	SW.	0	2	5	14	16	15	1	4	3	2	15	15	1	3	2	0	0	0	0	0	23	0	4	0
September	8.7	S.	22	S.	0	5	5	10	11	24	2	2	1	0	17	8	5	9	8	0	0	0	1	0	10	0	6	0
October	8.1	S.	30	S.	0	9	0	2	8	27	2	6	6	2	19	9	3	6	5	0	0	0	1	0	1	2	3	0
November	9.7	S.	36	NW.	0	7	0	5	6	14	9	10	8	1	15	7	8	6	5	1	0	1	0	0	0	11	2	0
December	8.1	N.	32	N.	0	7	6	9	7	9	9	7	8	0	10	12	9	0	0	0	0	0	0	9	0	28	0	0
Year	8.7	S.	46	NW.	2	96	57	86	106	194	43	65	73	10	147	133	85	87	69	16	11	3	7	26	55	112	41	0

CORPUS CHRISTI, TEX.

[H_b=20 ft.; h_t=11 ft.; h_r=63 ft.; h_a=73 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	12.9	N.	38	N.	0	25	18	0	2	9	1	3	4	0	6	4	21	10	5	0	0	0	1	0	0	1	1	0
February	13.6	N.	44	S.	2	13	9	10	7	12	0	1	3	1	9	7	12	9	2	0	0	0	4	0	0	0	3	0
March	13.8	SE.	47	S.	1	16	1	9	19	12	1	3	1	0	12	9	10	8	3	0	0	0	2	0	0	2	5	0
April	18.4	SE.	48	S.	3	8	4	8	28	12	0	0	0	0	4	12	14	5	3	0	0	0	0	0	1	0	5	0
May	14.0	SE.	54	SE.	2	4	4	1	31	13	2	3	4	0	3	21	7	8	6	0	0	0	1	0	4	0	14	0
June	11.6	SE.	37	NW.	0	6	2	4	26	11	7	4	0	0	12	10	8	8	6	0	0	0	0	0	7	0	5	0
July	14.7	S.	35	S.	0	2	1	2	24	30	2	0	1	0	15	13	3	2	0	0	0	0	0	0	8	0	3	0
August	11.0	SE.	31	E.	0	3	1	5	27	11	9	4	2	0	10	17	4	3	1	0	0	0	0	0	16	0	3	0
September	11.9	E.	48	NE.	2	12	10	13	12	6	4	0	3	0	11	8	11	13	10	0	0	0	1	0	7	0	11	0
October	9.4	N.	46	N.	1	17	5	9	9	10	5	3	4	0	17	9	5	8	7	0	0	0	0	0	1	0	4	0
November	12.4	N.	42	NW.	2	17	10	8	8	8	1	2	6	0	4	8	18	10	7	0	0	0	0	0	0	0	4	0
December	11.2	S.	40	N.	1	15	5	3	4	21	1	6	6	1	9	9	13	1	0	0	0	0	3	0	0	0	1	0
Year	12.9	SE.	54	SE.	14	138	70	72	197	155	33	29	34	2	112	127	126	85	50	0	0	0	12	0	44	3	59	0

DALLAS, TEX.

[H_b=512 ft.; h_t=109 ft.; h_r=92 ft.; h_a=117 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	8.1	NW.	39	S.	0	6	4	3	3	4	3	3	5	0	7	6	18	12	10	2	0	0	1	2	0	10	2	0
February	9.8	S.	42	S.	1	5	2	1	4	8	3	2	2	1	7	10	11	10	9	2	2	3	0	0	0	4	4	0
March	13.1	SE.	45	SW.	1	0	1	5	8	3	1	7	4	2	13	12	6	10	6	1	1	0	0	2	0	4	6	0
April	10.6	SE.	42	S.	1	1	0	5	8	5	3	3	5	0	5	9	16	10	9	0	0	0	0	0	0	0	9	0
May	8.6	SE.	39	N.	0	1	1	5	12	4	1	2	5	0	10	13	8	10	7	0	0	1	0	0	3	0	8	0
June	7.4	S.	48	NW.	1	0	2	5	4	13	0	2	4	0	13	10	7	6	5	0	0	1	0	0	16	0	6	0
July	9.1	S.	45	N.	1	0	1	2	10	15	1	0	1	1	15	14	2	5	2	0	0	0	0	0	27	0	6	0
August	7.2	SE.	24	NE.	0	1	0	8	13	6	1	1	1	0	13	14	4	5	5	0	0	0	1	0	26	0	4	0
September	6.6	E.	33	S.	0	1	4	10	5	4	0	0	3	3	20	9	1	4	1	0	0	0	0	0	17	0	2	0
October	6.0	SE.	31	NW.	0	4	3	4	7	1	0	2	9	1	14	10	7	7	6	0	0	0	0	0	0	0	3	0
November	8.2	NW.	30	NW.	0	2	2	8	4	3	2	3	5	0	7	9	14	10	6	0	0	0	0	0	0	0	2	0
December	9.0	S.	47	NW.	2	0	3	4	1	9	1	1	10	2	11	10	10	8	3	0	0	0	0	0	0	7	3	0
Year	8.6	SE.	48	NW.	7	21	24	60	79	75	16	26	54	10	135	126	104	97	69	5	3	5	2	4	89	25	56	0

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1922—Continued.

DAVENPORT, IOWA.

[ϕ=41° 30′ N.; λ=90° 38′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.529	30.170	28.770	16.4	25.6	26.0	32.1	13.8	23.0	50	−5	11	12	15	79	55	62	0.078	0.086	0.095	0.98	0.94	3.5	4.2	3.0	4.0
February	29.446	30.120	28.740	23.0	31.0	29.4	37.9	18.1	28.0	66	−1	18	18	18	81	57	62	.112	.114	.112	1.34	.86	5.4	5.5	4.7	5.2
March	29.376	29.920	28.741	35.4	42.5	41.9	47.0	32.6	39.8	66	13	30	31	33	82	65	71	.177	.190	.193	3.40	.75	6.9	7.3	6.7	7.1
April	29.348	29.820	28.420	45.7	54.8	55.3	60.1	41.7	50.9	78	34	39	39	41	79	59	62	.250	.255	.277	2.86	.91	6.0	6.1	6.7	6.1
May	29.273	29.669	28.760	60.5	71.3	69.6	75.5	56.6	66.0	87	49	53	53	54	78	56	61	.416	.422	.441	3.87	.87	4.3	6.4	6.4	5.8
June	29.327	29.630	28.993	67.5	79.1	79.8	83.5	63.3	73.4	95	47	59	58	60	75	50	52	.510	.504	.529	1.22	.90	3.0	4.4	2.9	3.8
July	29.356	29.660	28.950	68.6	79.7	79.2	83.5	65.0	74.2	95	55	60	58	60	76	50	53	.534	.504	.532	5.66	2.21	4.6	5.8	4.3	5.4
August	29.337	29.550	28.950	68.3	80.4	79.8	85.3	65.3	75.3	97	52	59	59	62	74	49	55	.520	.510	.572	.48	.15	3.6	4.6	3.5	4.4
September	29.429	29.780	29.050	60.6	76.5	72.8	79.9	57.9	68.9	100	44	55	54	56	83	48	58	.458	.438	.471	1.91	1.01	3.2	3.1	3.0	3.4
October	29.345	29.700	29.050	48.7	65.8	60.8	70.2	46.9	58.6	89	31	42	40	42	77	42	52	.278	.269	.285	.42	.22	3.2	3.1	3.3	3.5
November	29.416	29.740	28.880	39.7	46.9	45.3	50.4	37.4	43.9	65	19	35	36	37	82	66	72	.211	.228	.232	3.12	1.02	6.0	6.3	5.4	6.6
December	29.433	30.000	28.950	23.1	30.2	28.6	35.6	18.5	27.0	56	−4	18	19	20	80	63	68	.109	.119	.119	.60	.30	5.9	5.8	3.7	6.1
Year	29.385	30.170	28.420	46.5	57.0	55.7	61.8	43.1	52.4	100	−5	40	40	42	79	55	61	.304	.302	.322	25.86	2.21	4.6	5.2	4.5	5.1

DAYTON, OHIO.

[ϕ=39° 46′ N.; λ=84° 10′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.191	29.720	28.530	23.1	30.5	29.5	35.9	19.8	27.8	56	4	18	20	20	80	64	68	0.107	0.118	0.120	1.43	0.60	4.8	4.7	4.2	5.1
February	29.127	29.590	28.620	31.2	36.7	35.9	40.9	27.9	34.4	69	11	27	28	29	83	69	74	.155	.161	.169	1.47	.37	6.9	6.7	6.7	6.7
March	29.071	29.510	28.360	38.4	45.8	45.8	51.6	35.5	43.6	73	20	33	36	36	81	71	71	.200	.231	.229	5.81	1.85	7.6	7.1	6.1	7.0
April	29.082	29.438	28.300	49.0	58.8	57.0	64.0	44.4	54.2	79	33	42	45	44	79	61	65	.293	.324	.317	5.38	3.11	6.3	4.7	5.1	5.1
May	28.991	29.390	28.351	62.5	72.4	68.8	75.7	57.0	66.4	86	48	54	55	54	76	57	63	.434	.449	.436	4.16	1.31	4.5	4.2	5.4	4.6
June	29.025	29.220	28.750	68.7	79.0	76.6	83.1	62.6	72.8	93	55	60	60	59	74	54	57	.525	.523	.511	1.54	1.16	4.8	4.0	3.7	4.4
July	29.062	29.290	28.840	69.9	79.9	78.3	84.1	64.4	74.2	92	51	61	61	60	75	54	56	.552	.552	.538	4.49	1.35	3.7	3.9	3.5	3.6
August	29.038	29.300	28.680	67.2	78.5	76.4	82.5	62.4	72.4	94	52	59	58	58	75	52	55	.508	.502	.496	2.51	1.14	3.3	3.4	3.2	3.5
September	29.133	29.364	28.880	63.2	77.3	73.1	81.1	59.2	70.2	93	44	56	58	57	78	53	59	.467	.504	.489	2.46	1.64	1.6	2.2	2.0	2.0
October	29.046	29.430	28.580	50.5	64.4	60.0	67.9	47.5	57.7	87	34	44	43	44	78	50	57	.300	.302	.302	1.10	.35	3.8	3.7	3.2	4.0
November	29.159	29.470	28.620	40.5	49.5	46.7	52.6	38.0	45.3	71	23	34	36	36	79	61	68	.210	.226	.224	1.79	.86	5.6	5.2	4.3	5.2
December	29.143	29.630	28.630	31.1	36.6	35.2	42.2	26.4	34.3	62	1	27	29	29	84	73	77	.163	.189	.170	3.62	1.39	6.9	6.3	6.0	6.5
Year	29.089	29.720	28.300	49.6	59.1	56.9	63.5	45.4	54.4	94	1	43	44	44	78	60	64	.326	.340	.334	35.78	3.11	5.0	4.7	4.4	4.8

DEL RIO, TEX.

[ϕ=29° 20′ N.; λ=100° 53′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.121	29.520	28.680	41.2	52.3	....	58.3	39.2	48.8	70	25	33	33	....	72	51	....	0.193	0.199	....	0.15	0.12	6.0	6.7	....	6.5
February	29.072	29.610	28.700	48.2	61.6	....	69.6	45.7	57.6	89	26	40	41	....	76	49	....	.274	.281	....	.11	.11	6.2	5.3	....	5.7
March	29.027	29.500	28.640	51.1	67.7	....	74.0	50.3	62.2	88	19	40	36	....	69	35	....	.298	.249	....	.48	.31	4.9	3.4	....	3.7
April	28.912	29.440	28.480	63.6	76.0	....	81.6	61.0	71.3	96	47	53	49	....	72	44	....	.447	.387	....	4.61	1.71	6.8	5.7	....	6.1
May	28.882	29.080	28.610	70.4	83.1	....	88.9	69.1	79.0	98	60	66	64	....	87	56	....	.650	.622	....	1.23	.93	6.3	4.5	....	4.8
June	28.956	29.120	28.750	72.6	84.4	....	88.7	70.7	79.7	94	58	68	65	....	86	54	....	.685	.627	....	4.67	2.74	5.4	4.8	....	4.8
July	29.003	29.160	28.810	75.1	88.0	....	93.2	74.2	83.7	98	68	68	67	....	79	51	....	.694	.659	....	2.84	2.84	4.6	4.1	....	4.2
August	28.957	29.100	28.790	76.6	91.7	....	96.0	76.3	86.2	100	70	67	64	....	73	40	....	.664	.600	....	.15	.10	3.0	3.0	....	3.4
September	28.995	29.190	28.780	71.0	84.9	....	89.1	70.4	79.8	97	62	65	63	....	81	50	....	.620	.586	....	.78	.39	4.6	4.2	....	4.2
October	28.986	29.330	28.660	59.4	75.3	....	80.3	58.3	69.3	97	47	52	50	....	78	46	....	.403	.385	....	1.30	.58	3.3	3.2	....	3.4
November	29.083	29.340	28.770	54.6	65.3	....	69.7	52.9	61.3	82	39	49	47	....	82	54	....	.371	.350	....	.28	.12	7.4	7.4	....	7.1
December	29.070	29.400	28.720	46.5	61.8	....	67.7	44.5	56.1	78	28	41	42	....	81	52	....	.283	.294	....	.04	.04	3.5	4.4	....	4.4
Year	29.005	29.610	28.480	60.9	74.3	....	79.8	59.4	69.6	100	19	54	52	....	78	48	....	.465	.437	....	16.64	2.84	5.2	4.7	....	4.9

DENVER, COLO.

[ϕ=39° 45′ N.; λ=105° 00′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	24.653	25.100	24.100	20.9	34.4	31.2	39.3	16.1	27.7	61	−10	9	10	14	65	42	50	0.065	0.068	0.079	0.30	0.17	2.3	3.6	2.5	3.0
February	24.633	25.000	24.245	23.9	38.2	35.8	43.2	19.6	31.4	63	−1	11	15	14	60	42	46	.073	.084	.084	.40	.14	2.3	5.5	5.1	4.6
March	24.614	24.980	24.190	30.9	47.1	48.0	52.6	28.0	40.3	68	−7	18	16	17	58	31	30	.099	.088	.097	.48	.24	3.6	5.6	5.3	4.9
April	24.624	25.030	24.140	36.7	50.7	51.5	56.1	34.2	45.2	72	18	28	26	29	72	44	47	.156	.149	.163	3.65	.90	3.9	5.3	6.8	5.3
May	24.693	25.000	24.140	48.6	64.7	64.5	69.3	46.1	57.7	83	36	35	31	30	61	31	32	.210	.180	.177	1.14	.69	4.3	5.3	6.5	5.3
June	24.766	25.070	24.419	59.6	79.2	78.6	83.9	57.0	70.4	98	37	44	39	40	59	27	28	.299	.250	.256	.19	.08	2.8	4.3	5.6	4.2
July	24.838	25.060	24.440	61.1	79.5	78.1	85.0	58.6	71.8	97	50	49	45	46	67	34	37	.349	.309	.321	1.87	.57	3.6	4.2	6.6	4.6
August	24.834	25.010	24.680	63.2	82.4	77.5	86.3	62.1	74.2	92	57	52	48	52	68	32	43	.390	.341	.337	1.50	.53	1.5	3.3	7.4	4.0
September	24.833	25.080	24.581	53.6	74.5	73.3	79.0	52.7	65.8	88	42	39	37	36	58	28	29	.240	.225	.224	.54	.52	2.2	3.1	5.2	3.6
October	24.759	25.010	24.260	41.7	61.5	59.4	66.2	39.4	52.8	86	24	25	23	23	52	26	30	.135	.124	.128	.39	.13	2.5	3.2	3.0	3.1
November	24.745	25.090	24.030	31.5	43.3	39.4	47.1	27.3	37.2	62	2	22	24	26	70	49	60	.119	.127	.141	1.95	.33	4.2	5.2	3.3	3.8
December	24.629	24.980	24.230	29.0	43.1	38.1	46.7	23.5	35.1	64	7	18	19	19	64	40	47	.097	.101	.100	.63	.61	2.0	4.5	3.5	4.0
Year	24.718	25.100	24.030	41.7	58.2	56.3	62.9	38.7	50.8	98	−10	29	28	29	63	36	40	.186	.170	.180	12.95	.90	2.9	4.4	5.1	4.2

Annual meteorological summary for the year ending December 31, 1922—**Continued**.

DAVENPORT, IOWA.

[H_b=606 ft.; h_t=71 ft.; h_r=64 ft.; h_a=79 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	8.1	E.	28	NW.	0	4	9	11	2	9	11	6	10	0	16	8	7	2	2	7	1	0	0	14	0	31	0	0
February	9.1	NW.	33	W.	0	4	4	7	1	6	8	11	15	0	10	9	9	5	5	13	1	0	1	12	0	27	2	0
March	9.9	E.	30	SW.	0	5	11	17	3	8	6	6	6	0	8	2	21	12	9	9	4	0	0	2	0	15	1	0
April	9.0	S.	47	SW.	1	1	16	8	4	11	7	5	7	1	9	8	13	10	7	1	0	0	3	0	0	0	3	0
May	7.5	E.	31	SW.	0	1	4	14	1	19	5	6	12	0	8	10	13	16	13	0	0	1	2	0	0	0	8	0
June	6.6	SW.	29	S.	0	5	9	13	0	4	18	5	6	0	14	12	4	4	4	0	0	0	0	0	3	0	3	0
July	6.0	NW.	42	S.	1	5	8	9	0	7	13	7	13	0	12	11	6	10	9	0	0	0	0	0	1	0	8	0
August	5.0	SW.	24	NW.	0	3	9	10	2	9	15	6	7	1	14	8	9	11	4	0	0	0	0	0	9	0	4	0
September	5.2	SW.	28	NW.	0	1	13	14	1	7	16	1	6	1	18	5	7	7	4	0	0	0	3	0	8	0	3	0
October	6.0	SW.	27	NW.	0	2	2	15	0	6	10	8	12	7	20	3	8	3	3	0	0	0	1	0	0	2	0	0
November	8.5	SW.	29	NE.	0	2	3	6	1	10	13	11	12	2	6	8	16	9	8	1	1	0	2	0	0	11	1	0
December	8.0	NW.	27	NW.	0	1	10	10	3	7	6	10	14	1	9	8	14	7	4	8	2	0	2	9	0	28	0	0
Year	7.4	E.	47	SW.	2	34	98	134	18	103	128	82	120	13	144	92	129	96	72	39	9	1	14	37	21	114	33	0

DAYTON, OHIO.

[H_b=899 ft.; h_t=181 ft.; h_r=176 ft.; h_a=216 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	11.5	NE.	44	NE.	2	5	15	3	5	5	12	8	8	1	12	8	11	7	7	8	4	0	3	10	0	28	0	0
February	13.2	SW.	44	SW.	4	5	12	4	1	5	14	8	7	0	4	11	13	11	7	8	3	0	0	6	0	21	1	0
March	12.9	SW.	44	SW.	3	3	14	3	8	6	10	5	12	1	8	3	20	17	12	5	4	2	2	3	0	12	6	0
April	12.4	NE.	52	W.	5	3	16	5	7	4	13	2	9	1	10	14	6	11	9	0	0	0	0	0	0	0	6	0
May	8.2	NE.	34	W.	0	5	16	5	7	7	11	8	3	0	12	12	7	17	10	0	0	0	1	0	0	0	11	0
June	8.7	NE.	36	NW.	0	5	21	2	3	3	17	3	4	2	12	12	6	7	5	0	0	0	0	0	4	0	6	0
July	8.6	NE.	50	NE.	1	7	19	3	1	4	17	5	5	1	19	8	4	8	8	0	0	1	0	0	4	0	7	0
August	7.4	NE.	39	NW.	0	6	16	4	6	4	9	5	6	6	20	8	3	7	7	0	0	0	0	0	4	0	7	0
September	7.7	SW.	35	SW.	0	4	22	1	2	6	21	1	0	3	25	3	2	7	7	0	0	0	0	0	6	0	5	0
October	8.7	SW.	31	W.	0	5	12	6	1	3	19	4	8	4	18	4	9	8	6	0	0	0	0	0	0	0	1	0
November	11.3	SW.	32	W.	0	4	4	2	4	3	22	6	14	1	11	8	11	8	6	4	2	0	0	1	0	10	0	0
December	11.1	SW.	42	NE.	1	4	10	3	8	4	17	3	11	2	9	7	15	10	9	5	3	0	1	7	0	22	1	0
Year	10.1	SW.	52	W.	16	56	177	41	53	54	182	58	87	22	160	98	107	118	93	30	16	3	7	27	18	93	51	0

DEL RIO, TEX.

[H_b=944 ft.; h_t=64 ft.; h_r=56 ft.; h_a=71 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	7.8	SE.	46	NW.	1	5	1	6	7	1	2	1	8	0	10	3	18	3	1	0	0	0	0	0	0	7	0	0
February	9.7	SE.	44	N.	1	5	2	6	8	0	0	1	6	0	9	8	11	1	1	0	0	0	0	0	0	2	0	0
March	13.5	SE.	62	NW.	3	4	1	5	10	0	1	3	7	0	17	6	8	4	2	0	0	0	1	1	0	4	3	0
April	12.8	SE.	52	NW.	4	5	4	6	11	1	0	2	1	0	7	9	14	8	6	0	0	0	0	0	3	0	7	0
May	9.0	SE.	42	E.	1	1	3	12	14	0	0	1	0	0	10	13	8	7	3	0	0	0	0	0	15	0	2	0
June	9.5	SE.	42	N.	2	1	1	16	11	0	0	1	0	0	12	11	7	8	7	0	0	0	0	0	15	0	3	0
July	9.9	SE.	27	S.	0	2	0	20	9	0	0	0	0	0	13	12	6	1	1	0	0	0	0	0	26	0	1	0
August	7.7	SE.	33	E.	0	0	0	28	3	0	0	0	0	0	17	11	3	2	2	0	0	0	0	0	30	0	2	0
September	5.3	SE.	30	SE.	0	2	7	17	3	0	0	0	1	0	16	4	10	7	5	0	0	0	0	0	12	0	0	0
October	7.2	E.	35	NW.	0	3	3	12	3	0	2	0	8	0	19	4	8	7	6	0	0	0	0	0	3	0	3	0
November	8.6	SE.	32	N.	0	5	6	2	8	1	0	1	5	2	5	8	17	5	3	0	0	0	1	0	0	0	1	0
December	6.7	SE.	44	NW.	1	3	1	8	4	1	0	4	9	1	14	8	9	1	1	0	0	0	3	0	0	1	0	0
Year	9.0	SE.	62	NW.	13	36	29	138	91	4	5	14	45	3	149	97	119	54	38	0	0	0	5	1	104	14	22	0

DENVER, COLO.

[H_b=5,292 ft.; h_t=106 ft.; h_r=98 ft.; h_a=113 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	7.6	S.	36	W.	0	14	7	3	3	15	8	10	2	0	19	9	3	4	3	8	4	0	0	9	0	29	0	0
February	8.1	S.	38	W.	0	9	4	6	1	17	4	10	5	0	9	13	6	6	4	7	6	0	0	5	0	25	0	0
March	8.6	S.	41	N.	1	9	8	5	7	14	6	10	3	0	12	12	7	4	4	4	3	0	0	2	0	21	0	0
April	8.0	S.	43	NW.	1	8	6	1	12	8	5	6	14	0	11	7	12	14	12	8	8	1	0	1	0	12	1	0
May	8.6	S.	36	W.	0	6	5	5	3	19	4	10	10	0	11	10	10	8	5	1	0	2	0	0	0	0	4	0
June	7.7	S.	32	SE.	0	3	5	4	6	24	6	5	7	0	13	15	2	4	3	0	0	0	0	0	6	0	9	0
July	7.4	S.	38	W.	0	8	3	4	8	22	5	7	5	0	9	19	3	12	9	0	0	0	0	0	9	0	14	0
August	7.0	S.	36	N.	0	5	4	3	8	27	10	3	2	0	11	19	1	12	7	0	0	1	0	0	5	0	18	0
September	6.4	S.	37	N.	0	9	6	1	5	23	5	8	3	0	16	11	3	2	1	0	0	1	0	0	0	0	3	0
October	6.9	S.	39	NE.	0	13	4	7	2	24	3	5	4	0	18	8	5	4	3	3	2	0	1	0	0	5	0	0
November	6.9	S.	40	NW.	1	14	2	3	4	13	6	9	9	0	10	12	8	5	5	6	4	0	2	2	0	24	0	0
December	7.2	S.	32	W.	0	8	6	2	5	21	6	8	6	0	14	15	2	2	1	8	2	0	1	2	0	25	0	0
Year	7.5	S.	43	NW.	3	106	60	44	64	227	68	91	70	0	153	150	62	77	57	45	29	5	4	21	20	141	49	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

DES MOINES, IOWA.

[ϕ=41° 35′ N.; λ=93° 37′ W.]

Month.	Pressure.			Temperature.								Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	3 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.234	29.892	28.620	17.3	25.9	25.4	31.3	13.8	22.6	49	−5	13	15	17	82	63	70	0.083	0.063	0.100	0.85	0.50	3.9	4.6	3.5	4.8
February	29.173	29.891	28.414	21.2	29.5	28.7	37.3	15.6	26.4	61	−4	15	16	17	74	55	62	.110	.099	.100	.64	.42	3.3	4.5	4.2	4.5
March	29.092	29.730	28.420	34.0	43.4	43.8	49.5	31.8	40.6	66	10	29	30	33	80	61	65	.164	.176	.193	2.25	1.65	6.3	6.7	6.7	6.3
April	29.069	29.530	28.040	44.3	56.1	56.6	60.3	41.4	50.8	82	31	38	40	40	78	58	57	.232	.259	.262	2.84	1.14	5.6	6.2	5.7	6.1
May	29.001	29.400	28.550	58.9	69.9	68.9	73.6	55.0	64.3	86	44	50	49	51	75	52	57	.383	.372	.398	6.87	3.29	5.7	5.9	5.2	5.7
June	29.064	29.343	28.699	67.6	80.0	80.6	84.1	64.0	74.0	95	48	59	59	60	76	49	51	.512	.505	.529	1.63	.76	3.8	4.4	2.7	4.0
July	29.100	29.400	28.700	67.3	78.2	78.3	82.4	63.6	73.0	90	53	61	61	61	80	57	56	.539	.543	.545	7.13	2.64	4.8	6.6	4.2	5.2
August	29.074	29.235	28.764	67.5	80.6	79.6	84.6	64.9	74.8	97	53	62	64	66	82	60	65	.561	.617	.655	6.63	2.60	3.3	4.1	4.4	3.7
September	29.157	29.540	28.750	59.8	75.0	71.3	78.4	57.7	68.0	96	43	53	54	57	80	50	63	.430	.443	.493	3.00	1.44	3.8	3.9	2.0	3.5
October	29.076	29.470	28.690	47.8	65.2	60.9	69.1	45.7	57.4	88	28	41	42	43	78	45	53	.269	.283	.297	3.41	2.02	3.5	3.5	2.3	3.5
November	29.134	29.470	28.578	40.0	48.0	45.3	51.5	36.6	44.0	69	19	35	38	37	83	69	73	.218	.244	.231	2.54	.90	5.5	5.5	4.4	5.0
December	29.158	29.740	28.670	21.3	30.3	28.5	35.4	15.9	25.6	53	−7	16	19	19	80	61	67	.102	.110	.109	.25	.15	4.5	5.7	3.1	5.2
Year	29.111	29.892	28.040	45.6	56.8	55.7	61.5	42.2	51.8	97	−7	39	41	42	79	57	62	.300	.312	.326	38.04	3.29	4.5	5.1	4.0	4.8

DETROIT, MICH.

[ϕ=42° 20′ N.; λ=83° 03′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	3 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.364	29.930	28.740	20.0	25.4	25.2	31.5	16.0	23.8	52	0	15	17	19	79	70	74	0.089	0.098	0.107	1.58	1.02	5.5	4.2	3.4	4.4
February	29.284	29.850	28.600	26.4	30.4	29.5	35.1	21.8	28.4	57	5	21	22	23	78	70	74	.118	.125	.128	1.91	.66	6.8	8.1	5.5	7.4
March	29.274	29.830	28.410	32.1	38.7	38.4	44.8	28.9	36.8	71	17	27	28	30	80	68	73	.150	.161	.175	5.12	1.76	6.0	6.0	5.3	5.9
April	29.261	29.650	28.380	44.6	52.1	49.0	56.8	39.4	48.1	79	29	37	39	38	76	62	69	.237	.253	.248	2.74	1.54	5.8	6.1	5.6	5.4
May	29.194	29.630	28.350	58.8	67.3	64.7	71.5	54.2	62.8	85	45	50	53	52	75	64	65	.376	.425	.394	2.53	1.00	4.2	6.0	4.9	4.6
June	29.214	29.490	28.840	65.9	73.9	71.5	78.1	60.4	69.2	94	48	55	58	58	70	58	63	.452	.489	.494	1.46	.58	4.7	5.4	3.8	4.6
July	29.250	29.540	28.940	68.8	77.1	74.1	80.7	64.6	72.6	89	53	60	62	61	73	60	65	.522	.568	.547	1.99	1.33	4.5	6.1	4.9	5.1
August	29.234	29.520	28.754	67.3	76.3	72.0	79.5	62.3	70.9	95	51	58	56	57	72	52	61	.492	.469	.480	3.36	2.57	3.4	4.8	3.8	4.0
September	29.339	29.640	29.100	62.2	71.9	67.5	75.8	58.3	67.0	93	46	55	55	56	76	57	68	.443	.452	.470	3.83	1.72	3.8	4.0	3.5	3.9
October	29.223	29.660	28.747	49.3	58.6	55.0	62.7	46.6	54.6	87	31	42	44	44	77	61	69	.286	.312	.309	1.22	.57	4.6	4.8	3.7	4.5
November	29.281	29.699	28.757	39.8	45.2	43.3	48.2	37.2	42.7	63	24	34	35	36	80	68	74	.206	.213	.219	.78	.13	7.4	7.9	7.2	7.6
December	29.291	29.770	28.800	27.3	31.1	29.4	35.8	22.5	29.2	60	4	23	24	24	84	74	78	.136	.134	.131	2.31	1.00	6.4	6.5	6.8	6.8
Year	29.267	29.930	28.350	46.9	54.0	51.6	58.4	42.7	50.5	95	0	40	41	42	77	64	69	.292	.308	.308	28.83	2.57	5.3	5.8	4.9	5.4

DEVILS LAKE, N. DAK.

[ϕ=48° 07′ N.; λ=98° 52′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	3 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	28.433	29.130	27.650	0.2	8.1	7.7	14.7	−6.5	4.1	33	−35	−2	4	5	89	80	87	0.044	0.056	0.061	0.58	0.28	4.6	5.5	4.4	5.4
February	28.482	29.120	27.810	−6.4	4.5	3.7	9.9	(*)	−0.4	29	−26	−8	1	2	90	84	90	.028	.044	.046	.64	.32	4.6	6.3	4.6	6.1
March	28.414	28.970	27.900	20.7	29.4	28.3	32.7	18.6	25.6	49	−9	14	23	24	86	76	83	.098	.124	.129	.62	.38	6.7	6.7	6.6	6.6
April	28.418	28.830	27.970	34.8	47.1	46.3	51.3	32.4	41.8	72	18	29	32	33	81	60	62	.165	.188	.191	.48	.14	4.5	6.1	5.5	5.6
May	28.313	28.777	27.780	51.7	62.5	61.2	66.8	46.9	56.8	82	35	46	46	46	81	59	61	.315	.326	.326	2.71	.98	6.5	6.1	5.6	6.2
June	28.354	28.780	27.920	58.1	70.3	69.7	74.7	52.9	63.8	94	43	52	52	53	80	56	59	.388	.400	.420	2.52	1.02	5.0	4.9	3.8	4.8
July	28.400	28.650	27.809	59.0	73.6	72.3	78.0	53.4	65.7	93	42	54	53	54	84	50	56	.425	.411	.428	.87	.41	3.5	4.8	3.9	4.3
August	28.372	28.600	28.100	60.1	77.9	76.4	83.2	56.7	70.0	98	46	55	53	54	83	44	50	.439	.412	.433	1.72	.78	4.0	3.1	4.2	3.9
September	28.422	28.918	28.010	49.8	66.6	63.0	71.4	47.3	59.4	95	33	45	46	46	84	52	57	.312	.323	.327	3.30	1.42	4.8	4.4	4.3	4.6
October	28.368	28.740	27.830	35.6	52.5	46.7	56.4	33.0	44.7	88	19	30	33	32	80	51	60	.170	.189	.188	.52	.31	4.9	5.4	4.5	5.3
November	28.418	29.070	27.680	28.3	33.8	32.4	37.9	25.6	31.8	52	4	26	28	29	89	80	86	.144	.162	.164	2.38	1.03	7.1	8.2	7.3	8.2
December	28.383	28.850	27.760	3.0	9.1	6.7	14.2	−2.1	6.0	41	−24	1	6	4	89	87	90	.055	.066	.063	.87	.25	5.9	6.2	5.3	6.4
Year	28.398	29.130	27.650	32.9	44.6	42.9	49.3	29.0	39.1	98	−35	28	31	32	85	65	70	.215	.225	.231	17.21	1.42	5.2	5.6	5.0	5.6

DODGE CITY, KANS.

[ϕ=37° 45′ N.; λ=100° 00′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	3 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	27.474	27.920	26.930	21.2	35.6	31.9	40.2	16.9	28.6	69	−1	17	21	20	84	58	64	0.096	0.114	0.112	0.45	0.41	4.9	4.6	3.8	4.4
February	27.435	27.916	26.939	22.8	41.8	38.6	48.5	19.5	34.0	76	−1	16	20	19	78	45	49	.098	.112	.109	1.73	.93	3.8	4.1	4.0	3.7
March	27.390	27.880	26.840	31.1	48.0	45.9	53.0	29.1	41.0	76	−10	28	30	32	88	53	63	.163	.172	.193	3.76	1.95	4.6	2.2	4.6	3.5
April	27.344	27.820	26.550	44.3	59.0	58.8	63.8	42.2	53.0	92	29	39	38	39	84	54	55	.232	.248	.256	4.24	2.56	5.8	5.1	4.7	5.1
May	27.359	27.670	26.860	55.5	70.7	69.0	74.8	52.5	63.6	86	44	50	50	52	84	51	69	.289	.377	.407	2.77	.85	4.8	4.9	3.5	3.8
June	27.412	27.650	27.130	64.9	82.6	81.4	86.6	62.4	74.5	96	59	59	60	59	82	47	49	.506	.520	.505	1.37	.67	3.2	1.8	3.3	2.2
July	27.443	27.730	27.050	67.6	84.9	84.2	89.6	64.7	77.2	101	53	61	61	62	82	48	50	.544	.545	.555	2.86	.94	3.8	3.0	3.1	2.9
August	27.418	27.650	27.188	68.0	89.3	86.6	93.3	66.7	80.0	104	56	60	59	58	76	38	41	.521	.508	.493	3.19	1.56	3.7	1.7	2.0	1.9
September	27.467	27.770	27.211	61.1	82.5	77.8	86.1	58.8	72.4	101	45	51	52	50	70	37	40	.378	.395	.368	1.84	.50	3.4	2.1	2.2	2.2
October	27.424	27.800	27.000	46.2	69.8	62.6	74.0	43.9	59.0	89	31	37	36	36	72	33	41	.228	.222	.229	.45	.43	2.5	2.5	1.9	2.4
November	27.484	27.840	26.860	37.0	54.0	47.7	57.8	33.2	45.5	75	18	32	32	32	80	46	55	.190	.199	.192	.95	.87	3.8	3.7	2.1	3.3
December	27.424	27.850	26.930	23.5	43.4	36.5	47.7	19.7	33.7	67	2	18	21	20	77	44	53	.097	.114	.110	T.	T.	3.5	3.3	3.1	3.6
Year	27.420	27.920	26.550	45.3	63.5	60.1	68.0	42.5	55.2	104	−10	39	40	40	80	46	52	.288	.294	.294	23.61	2.56	4.0	3.3	3.2	3.2

* −10.6, mean minimum temperature, Devils Lake, February.

Annual meteorological summary for the year ending December 31, 1922—Continued.

DES MOINES, IOWA.

[H_b=861 ft.; h_t=84 ft.; h_r=76 ft.; h_a=97 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 46 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	8.1	SE.	35	SW.	0	6	4	8	9	8	7	7	13	0	14	7	10	7	5	9	5	0	0	15	0	31	0	0
February	9.0	NW.	41	SW.	2	7	3	6	5	6	7	8	14	0	13	8	7	6	2	6	2	1	0	9	0	26	3	0
March	9.2	N.	32	SW.	0	10	7	7	10	10	4	4	10	0	7	8	16	9	6	7	5	0	0	1	0	19	1	0
April	8.5	E.	31	SW.	0	10	5	13	10	9	5	3	5	0	8	9	13	9	9	2	1	2	2	0	0	3	2	0
May	7.9	SW.	33	SW.	0	7	10	5	9	8	7	9	7	0	8	12	11	14	11	0	0	1	0	0	0	0	7	0
June	6.6	SW.	32	SW.	0	7	3	6	7	10	15	4	7	1	15	12	3	7	5	0	0	0	0	0	4	0	4	0
July	6.0	S.	37	SW.	0	6	7	9	7	9	10	4	9	1	11	10	10	13	12	0	0	0	0	0	1	0	9	0
August	5.6	S.	29	SW.	0	6	1	4	8	16	12	7	8	0	19	5	7	9	9	0	0	2	0	0	7	0	8	0
September	6.0	S.	23	SW.	0	11	4	6	11	17	8	1	2	0	16	9	5	4	3	0	0	0	1	0	6	0	3	0
October	6.5	SW.	32	SW.	0	4	2	4	5	12	17	6	12	0	19	6	6	8	6	0	0	0	0	0	0	3	3	0
November	9.2	SW.	52	SW.	2	2	4	6	4	8	13	10	13	0	14	6	10	9	7	2	0	0	0	0	0	12	0	0
December	7.6	NW.	26	NW.	0	10	4	7	6	5	12	6	12	0	12	8	11	5	2	7	3	0	0	10	0	31	0	0
Year	7.5	SW.	52	SW.	4	86	54	81	91	118	117	69	112	2	156	100	109	100	77	33	16	6	3	35	18	125	40	0

DETROIT, MICH.

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

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 46 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	12.7	SW.	48	W.	1	0	11	7	2	4	15	9	14	0	15	8	8	8	5	12	6	0	1	17	0	30	0	0
February	12.4	SW.	56	W.	2	5	3	4	4	4	14	13	9	0	4	7	17	12	8	14	8	0	2	11	0	28	1	0
March	12.3	NE.	36	SW.	0	7	10	10	6	5	12	0	12	0	10	7	14	15	12	9	7	0	1	3	0	20	0	0
April	12.4	SW.	56	W.	7	2	11	9	5	7	12	6	8	0	9	10	11	11	5	4	1	1	0	0	0	4	2	0
May	8.4	NE.	35	W.	0	4	12	13	8	8	9	6	2	0	14	8	9	10	10	0	0	0	1	0	0	0	2	0
June	9.7	SW.	36	SW.	0	10	7	10	6	4	11	8	4	0	10	10	4	9	7	0	0	0	1	0	1	0	8	0
July	8.8	SW.	54	SW.	4	6	11	7	8	7	11	5	7	0	7	18	6	12	9	0	0	0	0	0	0	0	4	0
August	8.2	SW.	39	N.	0	10	13	6	5	8	10	4	6	0	14	13	4	8	6	0	0	1	0	0	3	0	7	0
September	8.7	SW.	35	N.	0	9	16	6	4	8	10	4	3	0	13	12	5	9	7	0	0	1	0	0	4	0	5	0
October	10.5	SW.	28	W.	0	6	12	5	1	5	18	7	8	0	17	6	8	8	7	1	0	0	2	0	0	1	1	0
November	13.3	SW.	37	SW.	0	4	5	4	1	3	19	14	10	0	5	5	20	11	8	7	3	0	0	3	0	9	0	0
December	12.3	W.	46	W.	1	5	7	2	4	9	11	16	8	0	7	9	15	13	9	10	8	0	1	12	0	25	0	0
Year	10.8	SW.	56	W.	15	68	118	83	54	72	152	92	91	0	125	119	121	126	93	57	33	3	9	46	8	117	30	0

DEVILS LAKE, N. DAK.

[H_b=1,478 ft.; h_t=11 ft.; h_r=4 ft.; h_a=44 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 46 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	10.2	W.	39	N.	0	6	4	0	5	14	7	12	14	0	9	10	12	11	4	13	11	0	0	30	0	31	0	0
February	13.0	NW.	44	NW.	4	8	4	1	6	1	11	13	12	0	9	4	15	7	4	17	7	0	0	28	0	28	0	2
March	11.8	SW.	36	NW.	0	8	5	8	8	7	9	9	6	2	6	10	15	7	4	12	7	0	0	14	0	31	0	0
April	10.5	SE.	36	N.	0	7	11	8	14	5	8	2	5	0	11	6	13	7	5	7	3	0	1	0	0	17	1	1
May	9.7	SE.	36	NE.	0	6	6	5	16	4	7	12	6	0	8	7	16	17	11	0	0	1	0	0	0	0	5	1
June	9.1	SW.	36	N.	0	8	14	3	6	6	15	3	5	0	12	10	8	9	7	0	0	0	0	0	3	0	6	0
July	7.7	NW.	33	N.	0	6	1	8	6	10	3	14	14	0	17	8	6	9	4	0	0	0	0	0	2	0	6	2
August	8.4	SE.	40	NW.	1	10	2	8	16	8	3	7	8	0	16	10	5	9	5	0	0	0	1	0	7	0	8	0
September	8.2	SE.	36	W.	0	6	5	9	10	4	7	12	7	0	15	7	8	8	7	0	0	0	0	0	2	0	4	1
October	9.9	NW.	42	NW.	1	10	8	4	12	4	7	5	12	0	13	4	14	6	3	2	1	0	0	0	0	15	0	0
November	9.7	NW.	30	E.	0	10	9	3	8	4	7	4	15	0	3	4	23	11	6	10	7	0	0	6	0	25	0	0
December	10.5	W.	36	NW.	0	6	4	3	4	7	12	16	10	0	8	6	17	10	5	14	10	0	1	25	0	31	0	0
Year	9.9	NW.	44	NW.	6	91	73	60	111	74	96	109	114	2	127	86	152	111	65	75	46	1	3	103	14	178	30	7

DODGE CITY, KANS.

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

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 46 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	10.0	S.	34	S.	0	6	7	2	9	13	6	5	14	0	15	8	8	5	2	6	2	0	0	8	0	31	1	0
February	10.8	SE.	35	S.	0	8	9	4	13	3	6	5	8	0	15	9	4	3	3	3	2	1	0	4	0	23	1	0
March	12.4	S.	40	N.	1	8	8	1	17	8	5	2	13	0	21	5	5	9	6	7	4	0	1	2	0	17	2	0
April	12.7	NE.	58	NW.	1	7	9	6	11	10	7	4	6	0	12	3	13	11	8	2	0	2	0	0	0	3	4	0
May	10.3	NE.	47	SE.	1	7	12	7	9	6	8	2	11	0	17	7	7	13	11	0	0	2	0	0	0	0	7	0
June	9.3	S.	28	S.	0	9	8	9	21	16	6	0	0	0	24	5	1	6	6	0	0	0	0	0	13	0	7	0
July	9.6	SE.	56	NW.	1	3	10	5	19	14	3	2	6	0	19	11	1	9	7	0	0	0	0	0	17	0	9	0
August	8.4	SE.	36	NW.	0	2	8	11	23	5	9	1	3	0	24	7	0	7	6	0	0	0	0	0	21	0	9	0
September	10.4	S.	30	SW.	0	6	6	4	23	15	6	0	1	0	22	7	1	8	7	0	0	2	0	0	10	0	7	0
October	9.2	S.	31	NE.	0	5	7	3	14	12	7	1	12	1	22	5	4	3	2	0	0	0	0	0	0	4	1	0
November	12.3	NW.	49	SW.	2	6	4	2	10	7	11	7	13	0	17	9	4	6	1	1	1	0	0	0	0	14	2	0
December	9.4	NW.	37	N.	0	7	8	4	13	4	7	9	10	0	18	6	7	0	0	1	0	0	0	7	0	29	0	0
Year	10.4	SE.	58	NW.	6	64	96	58	182	113	81	36	97	1	226	84	55	80	59	20	9	7	1	21	61	121	50	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

DREXEL, NEBR.

[ϕ=41° 20′ N.; λ=96° 16′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	28.718	29.350	28.130	15.4	25.2	23.7	30.8	11.5	21.2	49	−10	14	18	18	94	75	80	0.086	0.101	0.105	1.45	0.70	4.9	5.1	4.1	4.7
February	28.687	29.370	27.946	16.2	26.0	24.6	33.5	11.2	22.4	57	−9	14	20	19	93	77	78	.091	.113	.108	1.10	.97	4.0	4.4	5.7	4.7
March	28.587	29.220	27.940	30.7	42.6	42.1	49.2	28.1	38.6	69	2	28	33	34	91	70	74	.161	.192	.205	1.76	.91	6.7	6.6	5.3	6.3
April	28.565	29.020	27.850	42.9	56.3	55.7	61.2	40.2	50.7	81	29	38	40	40	82	57	59	.233	.257	.261	2.23	1.07	6.1	5.3	5.6	6.1
May	28.519	28.860	28.070	56.2	69.1	....	72.7	51.4	62.0	86	40	50	51	....	82	56	....	.382	.393	....	2.43	1.44	5.4	6.2	....	5.8
June	28.580	28.860	28.190	66.3	81.0	....	85.1	61.5	73.3	97	49	59	60	....	79	51	....	.510	.536	....	2.70	.93	5.4	3.9	....	4.4
July	28.608	28.920	28.160	66.3	78.5	....	82.4	61.7	72.0	91	50	62	62	....	85	59	....	.550	.573	....	4.51	1.85	5.3	6.0	....	5.5
August	28.587	28.730	28.310	67.4	83.0	....	87.2	63.9	75.6	98	51	63	64	....	86	56	....	.576	.616	....	1.31	0.52	3.4	4.3	....	3.6
September	28.653	29.060	28.270	59.3	77.7	....	82.1	57.5	69.8	102	44	52	54	....	78	47	....	.405	.433	....	.86	.26	3.8	2.9	....	3.2
October	28.582	28.980	28.100	47.2	66.2	....	71.1	44.5	57.8	90	20	39	40	....	75	42	....	.252	.269	....	1.32	1.12	3.6	3.8	....	3.2
November	28.635	29.020	27.980	36.8	46.5	....	50.2	33.1	41.6	70	20	34	36	....	88	70	....	.201	.224	....	3.57	1.70	4.7	4.9	....	5.0
December	28.650	29.170	28.040	18.6	30.6	....	35.7	14.3	25.0	57	−7	16	16	....	88	65	....	.095	.113	....	.08	.05	4.8	5.4	....	5.1
Year	28.614	29.370	27.850	43.6	56.9	....	61.8	39.9	50.8	102	−10	39	41	....	85	60	....	.295	.318	....	23.32	1.85	4.8	4.9	....	4.8

DUBUQUE, IOWA.

[ϕ=42° 30′ N.; λ=90° 44′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.433	30.110	28.710	14.2	22.5	23.1	28.4	11.0	19.7	42	−9	10	13	15	83	64	68	0.072	0.083	0.090	1.16	1.07	3.8	3.2	3.8	3.8
February	29.344	30.060	28.580	19.5	27.3	25.7	33.1	14.5	23.8	52	−3	15	16	17	83	62	68	.095	.101	.100	1.44	.68	5.4	4.5	5.2	5.0
March	29.309	29.930	28.590	32.5	40.7	39.9	44.5	30.3	37.4	67	8	27	29	30	81	63	68	.153	.162	.167	1.65	.45	6.2	6.6	6.7	6.5
April	29.279	29.770	28.330	42.8	52.0	53.5	57.9	39.7	48.8	73	30	37	38	39	80	61	60	.228	.239	.250	2.89	.97	5.6	6.5	6.1	6.7
May	29.205	29.616	28.680	59.0	69.9	68.0	73.8	55.8	64.8	87	48	52	54	54	79	60	63	.400	.440	.431	4.79	1.68	5.0	6.5	5.9	6.1
June	29.256	29.600	28.880	65.4	75.9	77.4	81.0	61.3	71.2	94	44	58	60	61	77	60	57	.489	.536	.539	1.20	.82	4.3	5.7	3.0	4.7
July	29.286	29.600	28.870	65.5	76.0	75.7	80.0	62.1	71.0	92	50	59	59	60	80	56	61	.505	.503	.540	6.01	1.86	4.9	6.1	5.2	5.7
August	29.265	29.470	28.870	65.4	78.0	76.3	82.2	62.8	72.5	93	51	59	61	63	81	57	65	.520	.553	.596	1.99	1.03	4.0	4.7	4.1	4.0
September	29.361	29.770	28.980	57.5	72.9	68.2	76.4	55.4	65.9	99	39	53	54	56	86	54	64	.420	.437	.460	3.40	1.60	3.7	4.3	3.0	4.3
October	29.263	29.600	28.910	46.1	62.7	58.1	66.5	44.2	55.4	87	32	40	42	43	82	48	58	.265	.282	.293	.72	.51	3.7	4.2	3.7	4.4
November	29.316	29.660	28.840	38.8	44.9	43.9	48.8	36.6	42.7	64	19	33	35	35	80	68	71	.197	.213	.217	4.41	1.42	7.9	6.7	6.4	7.2
December	29.341	29.920	28.890	19.7	26.3	25.6	32.2	15.4	23.8	51	−14	14	18	18	79	68	70	.094	.106	.105	.41	.18	5.8	6.5	4.4	6.3
Year	29.305	30.110	28.330	43.9	54.1	53.0	58.7	40.8	49.8	99	−14	38	40	41	81	60	64	.286	.305	.316	30.07	1.86	5.0	5.5	4.8	5.4

DUE WEST, S. C.

[ϕ=34° 21′ N.; λ=82° 22′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.421	29.770	28.556	37.6	45.3	....	49.3	35.0	42.2	68	19	32	34	....	82	66	....	0.203	0.219	....	3.92	1.16	7.2	6.8	....	7.0
February	29.389	29.790	28.920	44.4	54.1	....	58.5	41.9	50.2	76	21	40	42	....	86	65	....	.274	.289	....	7.11	2.02	7.3	6.8	....	6.9
March	29.361	29.680	28.850	47.6	58.1	....	63.2	43.3	53.2	79	29	43	43	....	84	61	....	.296	.300	....	7.98	1.93	5.2	6.1	....	5.7
April	29.358	29.670	28.870	56.8	66.7	....	72.7	52.5	62.6	87	39	50	50	....	80	58	....	.386	.384	....	6.05	2.59	5.8	6.1	....	5.7
May	29.247	29.640	28.754	65.1	74.8	....	78.5	60.1	69.3	88	50	59	58	....	83	58	....	.519	.489	....	4.59	2.27	6.4	6.6	....	6.7
June	29.272	29.460	29.060	73.1	83.4	....	87.8	67.2	77.5	93	61	67	64	....	81	55	....	.660	.615	....	3.02	.83	5.2	6.3	....	5.6
July	29.322	29.510	29.120	74.0	84.7	....	88.4	68.8	78.6	95	62	70	69	....	89	61	....	.742	.720	....	5.28	1.71	4.8	6.5	....	5.9
August	29.278	29.500	29.057	70.7	81.1	....	85.0	66.8	75.9	94	57	66	65	....	85	60	....	.639	.628	....	2.24	.75	6.4	6.6	....	6.3
September	29.351	29.550	29.160	68.3	81.8	....	85.5	63.9	74.7	95	57	61	60	....	79	49	....	.554	.529	....	.33	.22	3.9	5.0	....	4.5
October	29.287	29.580	28.950	56.1	69.3	....	72.8	52.4	62.6	86	40	51	51	....	81	56	....	.385	.395	....	3.14	.96	3.9	4.2	....	4.3
November	29.412	29.700	28.810	45.1	59.7	....	63.3	42.4	52.8	78	23	40	41	....	83	51	....	.265	.279	....	.52	.28	3.8	4.3	....	4.5
December	29.391	29.700	28.883	43.3	51.6	....	56.7	40.5	48.6	73	28	40	43	....	90	74	....	.270	.294	....	4.25	1.09	6.9	7.3	....	7.3
Year	29.341	29.790	28.556	56.8	67.6	....	71.8	52.9	62.4	95	19	52	52	....	84	60	....	.433	.428	....	48.43	2.59	5.6	6.0	....	5.9

DULUTH, MINN.

[ϕ=46° 47′ N.; λ=92° 06′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	28.851	29.520	27.970	5.5	11.2	9.8	16.7	0.6	8.6	36	−30	4	7	7	92	83	87	0.056	0.065	0.064	0.51	0.20	5.2	6.5	4.4	6.0
February	28.803	29.452	27.750	3.4	11.7	10.2	16.3	−1.0	7.6	36	−22	3	7	7	99	81	88	.057	.065	.063	4.24	1.08	5.2	5.8	4.6	5.5
March	28.816	29.350	27.970	21.6	29.4	28.3	32.9	19.6	26.2	48	−1	18	21	21	87	72	74	.104	.115	.114	2.60	1.37	5.0	4.6	4.7	5.4
April	28.803	29.242	28.140	34.4	40.2	38.2	43.7	30.6	37.2	58	21	31	33	31	87	76	77	.172	.189	.174	2.53	.89	6.3	5.8	5.8	6.7
May	28.734	29.200	28.150	49.6	54.3	52.8	59.7	43.2	51.4	81	37	44	44	44	82	72	75	.290	.298	.295	3.28	1.25	4.3	4.3	5.1	5.4
June	28.744	29.210	28.390	56.1	65.4	61.5	70.5	49.3	59.9	92	41	51	54	52	83	69	75	.373	.421	.401	3.97	1.07	2.5	5.6	4.2	5.3
July	28.770	29.056	28.322	60.1	68.6	66.8	73.4	53.9	63.6	84	44	54	56	55	81	65	68	.418	.449	.445	2.90	.91	2.8	5.7	4.2	5.0
August	28.773	28.967	28.450	60.6	68.1	65.6	73.5	54.8	64.2	92	43	56	56	56	85	68	72	.452	.462	.451	2.01	.90	3.8	4.2	3.9	4.7
September	28.643	29.390	28.470	52.1	63.8	58.1	67.4	48.9	58.2	86	37	49	50	49	89	65	73	.352	.379	.354	2.23	1.00	2.8	3.0	3.3	4.2
October	28.736	29.110	28.130	40.7	49.5	45.7	54.0	38.0	46.0	85	21	37	38	38	86	68	75	.223	.248	.238	.56	.28	5.6	5.0	4.6	5.4
November	28.757	29.357	27.850	32.8	36.2	34.7	39.0	29.4	34.2	55	10	31	31	31	92	82	87	.179	.182	.183	3.57	.74	7.5	8.1	7.5	8.2
December	28.755	29.320	28.170	8.9	15.3	13.0	19.5	4.0	11.8	40	−18	8	11	10	94	82	86	.070	.081	.077	.90	.24	5.5	5.6	5.5	5.8
Year	28.782	29.520	27.750	35.5	42.8	40.4	47.2	30.9	39.1	92	−30	32	34	33	88	74	78	.230	.246	.238	29.00	1.37	4.7	5.3	4.8	5.6

Annual meteorological summary for the year ending December 31, 1922—Continued.

DREXEL, NEBR.

[H_b=1,299 ft.; h_1=10 ft.; h_2=3 ft.; h_3=54 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.01 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	12.2	NW.	41	SW.	1	6	7	0	14	11	6	3	14	1	12	11	8	6	4	10	5	0	0	15	0	31	0	0
February	12.1	NW.	46	NW.	1	15	4	2	6	6	4	3	15	1	11	10	7	3	2	8	2	0	2	13	0	27	1	0
March	13.0	SE.	37	SW.	0	14	8	6	12	8	4	0	9	1	6	12	13	6	5	6	4	0	1	2	0	22	2	0
April	12.9	SE.	44	NE.	2	7	8	10	13	8	5	3	6	0	9	8	13	10	5	2	0	1	4	0	0	3	2	0
May	11.4	NW.	39	SW.	0	4	3	4	2	4	5	4	5	0	8	13	10	12	11	0	0	0	1	0	0	0	4	0
June	9.3	S.	39	SW.	0	2	5	6	3	7	5	1	1	0	12	12	6	11	7	0	0	3	1	0	6	0	12	0
July	8.0	S.	36	SW.	0	3	3	2	2	8	5	2	5	1	9	12	10	12	11	0	0	0	3	0	2	0	18	0
August	7.9	S.	30	E.	0	3	3	3	7	7	5	0	3	0	17	11	3	6	5	0	0	0	0	0	12	0	10	0
September	9.2	S.	31	S.	0	2	4	3	7	9	3	0	2	0	18	8	4	7	4	0	0	0	0	0	7	0	12	0
October	10.0	S.	32	S.	0	4	1	1	2	8	7	2	6	0	18	10	3	5	4	1	0	0	0	0	1	6	1	0
November	13.4	SW.	52	SW.	3	4	0	0	4	5	6	2	9	0	13	5	12	7	6	0	0	1	1	0	0	13	2	0
December	10.9	NW.	33	S.	0	8	2	2	3	5	6	2	3	0	12	11	8	3	1	7	2	0	1	13	0	30	0	0
Year	10.9	S.	52	SW.	7	72	48	39	75	86	61	22	78	4	145	123	97	88	65	34	13	5	14	43	28	132	64	0

DUBUQUE, IOWA.

[H_b=698 ft.; h_1=81 ft.; h_2=76 ft.; h_3=96 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.01 inch and over.	T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	6.8	NW.	25	NW.	0	8	6	5	6	11	6	5	14	1	17	6	8	5	2	12	4	0	1	15	0	31	0	0
February	8.0	NW.	31	SW.	0	5	6	3	5	8	5	2	22	0	11	11	6	9	6	13	5	0	3	13	0	27	2	0
March	8.3	NW.	26	S.	0	9	6	5	11	12	2	3	14	0	8	6	17	9	8	8	4	0	1	2	0	18	2	0
April	7.3	NE.	38	NW.	0	7	13	5	5	16	2	4	8	0	5	12	13	15	10	3	0	0	2	0	0	2	5	0
May	5.9	S.	20	SE.	0	5	7	9	11	15	2	1	12	0	7	13	11	15	11	0	0	1	0	0	0	0	10	0
June	5.4	S.	20	SW.	0	7	11	2	8	16	5	2	9	0	15	6	9	9	6	0	0	0	0	0	1	0	6	0
July	5.1	NW.	22	S.	0	10	5	4	4	14	4	1	20	0	8	11	12	14	12	0	0	0	0	0	1	0	8	0
August	4.6	S.	27	N.	0	6	6	2	12	20	3	3	10	0	14	13	4	6	4	0	0	1	1	0	4	0	3	0
September	4.7	S.	18	N.	0	8	8	2	3	22	5	1	9	2	13	10	7	5	5	0	0	0	8	0	5	0	4	0
October	5.8	S.	24	S.	0	6	2	3	3	18	12	2	13	3	15	7	9	6	4	0	0	0	6	0	0	1	0	0
November	7.3	NW.	24	NW.	0	2	3	1	6	15	14	0	19	0	4	8	18	10	8	2	1	0	0	1	0	11	1	0
December	7.0	NW.	28	NW.	0	4	10	0	11	12	4	2	19	0	8	7	16	8	4	11	4	0	2	12	0	30	0	0
Year	6.4	S.	38	NW.	0	77	83	41	85	179	64	26	169	6	125	110	130	111	80	49	18	2	24	43	11	120	41	0

DUE WEST, S. C.

[H_b=711 ft.; h_1=10 ft.; h_2=4 ft.; h_3=55 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.01 inch and over.	T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	9.9	NE.	34	NW.	0	2	10	1	1	2	9	4	2	0	7	7	17	11	9	4	1	0	1	1	0	14	0	0
February	9.0	SW.	30	SW.	0	1	6	4	0	1	10	2	1	3	6	7	15	14	12	1	1	0	2	0	0	6	5	0
March	9.7	S.	42	W.	1	0	5	8	1	5	3	5	1	3	8	11	12	14	11	0	0	0	2	0	0	5	4	0
April	9.7	SW.	35	SW.	0	1	11	1	2	3	9	2	1	0	8	12	10	8	8	0	0	0	1	0	0	0	5	0
May	8.2	E.	39	N.	0	2	10	6	1	1	7	2	2	0	7	7	17	17	12	0	0	0	0	0	0	0	14	0
June	6.8	SW.	38	NE.	0	0	4	3	2	4	4	11	2	0	6	17	7	9	7	0	0	0	0	0	10	0	15	0
July	6.1	SW.	34	NW.	0	2	3	5	1	3	8	7	2	0	3	25	3	16	13	0	0	0	0	0	12	0	19	0
August	6.6	NE.	39	N.	0	1	12	4	1	0	5	5	2	1	6	10	15	11	6	0	0	1	0	0	6	0	11	0
September	7.3	NE.	25	NE.	0	1	19	2	0	0	4	2	2	0	12	14	4	4	2	0	0	0	0	0	8	0	6	0
October	7.6	NE.	26	NW.	0	0	19	1	0	1	4	4	1	1	17	6	8	9	9	0	0	0	0	0	0	0	4	0
November	7.1	SW.	24	N.	0	3	14	2	0	0	7	2	2	0	14	8	8	4	4	0	0	0	1	0	0	6	0	0
December	8.4	SW.	38	W.	0	1	10	6	0	2	7	3	1	1	7	0	24	15	14	0	0	0	4	0	0	4	3	0
Year	8.0	NE.	42	W.	1	14	123	43	9	22	77	49	19	9	101	124	140	132	107	5	2	1	11	1	36	35	86	0

DULUTH, MINN.

[H_b=1,133 ft.; h_1=11 ft.; h_2=3 ft.; h_3=47 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.01 inch and over.	T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	14.1	SW.	53	NW.	6	2	5	4	3	5	14	12	17	0	10	6	15	10	4	15	10	0	0	29	0	31	0	2
February	16.4	W.	50	NE.	8	2	11	3	3	0	9	16	12	0	11	5	12	13	10	13	11	0	3	27	0	28	0	2
March	15.3	NE.	60	NW.	4	6	23	2	0	0	11	10	10	0	14	2	15	8	5	7	4	0	5	17	0	31	1	5
April	12.3	NE.	52	NE.	2	5	33	2	0	0	6	5	9	0	6	10	14	13	11	8	7	0	9	0	0	19	0	5
May	11.0	NE.	39	NW.	0	2	40	5	1	0	4	4	6	0	10	9	12	9	9	0	0	0	8	0	0	0	5	0
June	10.9	NE.	52	W.	2	1	21	8	3	0	11	10	6	0	11	11	8	15	10	0	0	1	10	0	1	0	9	3
July	10.7	W.	36	NE.	0	2	16	0	1	3	8	19	13	0	12	11	8	12	9	0	0	1	7	0	0	0	7	2
August	10.5	NE.	50	NW.	1	0	28	3	1	1	5	12	12	0	11	12	8	9	5	0	0	0	3	0	1	0	7	0
September	11.6	NE.	40	SW.	1	4	20	3	3	1	12	10	7	0	15	8	7	13	9	0	0	0	4	0	0	0	5	0
October	13.0	NE	51	NW.	3	3	23	1	2	2	11	8	12	0	11	7	13	7	4	2	0	0	1	0	0	7	1	0
November	13.3	NE.	68	SW.	5	7	15	2	2	4	10	10	10	0	4	1	25	14	11	10	5	0	8	5	0	16	0	0
December	14.0	W.	67	NW.	7	1	4	7	2	3	13	21	11	0	12	4	15	11	5	13	11	0	0	26	0	31	0	0
Year	12.8	NE.	68	SW.	39	35	239	40	21	19	114	137	125	0	127	86	152	134	92	68	48	2	58	104	2	163	35	19

Annual meteorological summary for the year ending December 31, 1922—Continued.

EASTPORT, ME.

[ϕ=44° 54′ N.; λ=66° 59′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.979	30.400	28.850	17.9	21.3	20.8	27.5	11.8	19.6	45	−11	11	12	13	72	68	70	0.084	0.088	0.087	1.90	0.71	5.7	5.6	1.7	5.1
February	29.962	30.495	29.097	20.0	24.3	24.1	30.2	15.1	22.6	50	−10	15	18	18	80	74	76	.095	.103	.108	3.10	.66	6.6	7.2	5.1	6.6
March	29.935	30.438	29.190	29.5	35.0	33.6	39.9	26.0	33.0	54	3	23	25	26	76	67	72	.133	.143	.142	2.70	1.18	5.2	6.3	4.8	6.0
April	29.860	30.320	29.370	38.4	43.3	40.2	46.9	34.1	40.5	67	27	31	33	33	74	68	77	.174	.192	.191	1.76	.40	6.6	6.7	6.2	7.7
May	29.908	30.286	29.510	49.3	53.8	48.4	58.3	41.2	49.8	84	32	40	43	41	72	69	78	.255	.289	.265	2.27	.84	4.7	5.8	4.5	5.7
June	29.886	30.180	29.090	55.0	58.8	54.2	63.2	46.4	54.8	82	41	51	54	51	88	85	91	.384	.428	.383	2.45	.69	5.1	6.6	6.0	7.3
July	29.933	30.213	29.660	57.3	62.8	56.1	65.9	50.1	58.0	77	47	54	57	53	89	81	90	.415	.462	.401	3.69	1.08	5.5	6.3	5.2	6.1
August	29.894	30.299	29.500	57.7	63.2	58.0	67.0	52.3	59.6	87	48	54	58	55	90	83	89	.426	.476	.429	9.44	4.09	5.8	6.8	4.5	7.2
September	30.013	30.404	29.450	52.5	58.2	53.1	61.9	47.2	54.6	73	35	47	51	48	84	77	86	.338	.384	.351	.96	.68	3.0	4.7	2.6	5.2
October	29.805	30.440	29.260	44.3	48.7	45.7	52.0	39.2	45.6	75	25	38	40	40	79	72	81	.248	.266	.264	3.01	1.04	6.1	7.4	4.8	7.3
November	29.823	30.208	29.030	33.7	37.9	36.1	40.8	30.4	35.6	50	19	28	30	30	78	75	78	.155	.174	.171	1.93	.71	6.6	7.4	7.6	7.0
December	29.994	30.610	29.320	19.7	23.2	23.4	30.5	14.2	22.4	46	−8	13	16	17	75	74	77	.092	.105	.110	3.26	1.20	7.7	7.3	6.5	7.5
Year	29.916	30.610	28.850	39.6	44.2	41.1	48.7	34.0	41.3	87	−11	34	36	35	80	74	80	.233	.259	.242	36.47	4.09	5.7	6.5	5.0	6.6

ELKINS, W. VA.

[ϕ=38° 53′ N.; λ=79° 49′ W.]

January	28.069	28.480	27.207	23.2	32.7	30.2	39.5	19.1	29.3	63	0	20	22	23	87	65	74	0.118	0.130	0.130	3.18	1.40	8.6	6.6	5.2	6.9
February	28.030	28.420	27.500	31.9	40.0	38.2	47.5	27.2	37.4	73	1	28	31	31	87	71	75	.170	.186	.186	4.26	1.06	7.9	8.1	6.8	7.8
March	28.008	28.410	27.410	38.0	47.1	45.3	54.5	32.8	43.6	75	12	33	33	33	81	63	65	.198	.201	.199	5.32	1.25	7.6	7.4	6.4	7.3
April	28.036	28.372	27.290	46.5	56.0	53.9	63.6	40.1	51.8	81	24	39	38	38	75	54	57	.250	.244	.250	3.77	2.17	7.3	7.2	5.2	6.8
May	27.976	28.343	27.300	55.9	68.8	64.1	73.3	49.4	61.4	84	34	50	48	51	82	51	64	.374	.347	.382	3.25	.83	5.7	6.1	6.3	6.4
June	28.005	28.230	27.730	62.4	73.5	68.7	78.4	57.3	67.8	89	42	59	60	62	89	65	81	.505	.532	.567	7.40	1.79	7.8	7.2	6.8	7.0
July	28.054	28.192	27.860	65.3	75.4	70.3	80.5	60.2	70.4	90	50	62	62	64	89	64	82	.559	.551	.608	5.75	1.40	7.0	6.2	6.2	6.1
August	28.027	28.283	27.750	59.4	71.8	66.3	76.4	55.9	66.2	87	42	57	57	61	93	62	84	.477	.483	.539	2.96	1.13	6.5	6.6	6.5	6.3
September	28.124	28.315	27.850	53.7	74.0	63.1	78.1	50.9	64.5	90	34	53	54	58	96	50	83	.408	.426	.493	1.31	.63	3.6	2.5	2.1	4.2
October	28.006	28.360	27.610	42.7	63.2	52.2	67.9	38.4	53.2	82	23	40	40	43	90	46	71	.261	.271	.293	1.20	.43	4.1	4.4	2.3	4.7
November	28.066	28.388	27.480	34.6	46.5	41.9	53.0	30.7	41.8	74	17	31	33	34	86	64	76	.180	.200	.210	1.55	.49	6.5	6.8	5.5	7.2
December	28.035	28.400	27.390	31.2	40.3	36.2	46.9	23.9	35.4	67	8	27	30	30	85	68	77	.157	.173	.179	4.53	1.27	7.7	7.3	6.1	7.1
Year	28.036	28.480	27.207	45.4	57.4	52.5	63.3	40.5	51.9	90	0	42	42	44	87	60	74	.305	.312	.336	44.48	2.17	6.7	6.4	5.5	6.5

ELLENDALE, N. DAK.

[ϕ=45° 59′ N.; λ=98° 34′ W.]

January	28.503	29.220	27.820	4.6	12.6	....	19.7	−1.6	9.0	40	−24	2	8	....	86	80	....	0.054	0.067	....	0.53	0.30	6.2	6.2	....	5.7
February	28.506	29.200	27.830	−2.7	6.9	....	12.6	−8.3	2.2	36	−26	−5	4	....	88	84	....	.035	.050	....	1.48	.46	5.4	6.3	....	6.9
March	28.439	29.050	27.970	22.5	31.9	....	35.3	20.4	27.8	52	−17	20	25	....	88	74	....	.111	.134	....	.87	.46	7.0	7.3	....	6.7
April	28.438	28.880	27.940	36.0	49.2	....	53.5	33.8	43.6	76	21	33	34	....	88	59	....	.190	.201	....	1.63	.57	6.0	6.7	....	6.8
May	28.333	28.750	27.800	51.4	63.5	....	67.7	46.9	57.3	80	36	46	48	....	84	58	....	.325	.343	....	3.69	1.66	6.5	6.9	....	7.1
June	28.371	28.780	28.050	59.7	71.7	....	75.0	53.3	64.2	90	44	54	56	....	83	59	....	.420	.451	....	2.17	.89	5.5	5.5	....	5.9
July	28.434	28.690	27.890	59.8	75.3	....	78.7	54.0	66.4	91	42	56	56	....	86	51	....	.448	.452	....	1.54	.71	4.1	5.1	....	4.7
August	28.413	28.620	28.160	61.0	81.7	....	86.3	56.4	71.4	100	42	55	54	....	82	40	....	.448	.432	....	.16	.12	3.2	3.0	....	3.2
September	28.461	28.940	28.010	50.5	71.1	....	75.7	47.1	61.4	99	35	46	48	....	84	48	....	.321	.348	....	1.21	.66	3.4	3.5	....	4.1
October	28.396	28.740	27.910	36.3	57.9	....	62.2	32.7	47.4	93	18	32	36	....	86	48	....	.186	.223	....	.45	.21	4.9	5.0	....	5.3
November	28.449	29.000	27.670	29.9	36.1	....	39.2	26.5	32.8	59	11	28	30	....	93	80	....	.158	.174	....	2.73	.89	6.4	7.1	....	7.9
December	28.436	28.890	27.830	9.4	15.2	....	20.3	4.1	12.2	43	−20	7	11	....	88	84	....	.071	.082	....	.34	.19	5.4	6.0	....	6.6
Year	28.432	29.220	27.670	34.9	47.8	....	52.2	30.4	41.3	100	−26	31	34	....	86	64	....	.231	.246	....	16.80	1.66	5.3	5.7	....	5.8

EL PASO, TEX.

[ϕ=31° 47′ N.; λ=106° 30′ W.]

January	26.201	26.600	25.830	35.5	48.1	50.3	55.0	32.0	43.5	67	20	22	23	22	57	38	34	0.116	0.128	0.123	0.30	0.24	2.1	3.5	2.2	3.3
February	26.189	26.610	25.830	40.0	56.7	60.0	63.9	37.1	50.5	79	21	17	21	18	39	26	22	.094	.116	.101	T.	T.	3.8	3.4	3.8	4.1
March	26.148	26.480	25.750	42.1	61.3	62.9	68.1	39.1	53.6	80	14	20	20	18	42	22	20	.108	.111	.101	.16	.16	1.3	2.1	3.2	2.5
April	26.099	26.570	25.810	49.8	67.2	70.7	74.5	48.6	61.6	87	35	28	22	16	46	22	16	.168	.134	.106	.28	.14	1.9	2.3	3.5	2.6
May	26.113	26.300	25.840	61.8	79.8	82.4	85.6	60.3	73.0	93	43	33	30	25	37	18	14	.200	.182	.151	.36	.19	1.6	1.2	1.9	1.8
June	26.136	26.360	25.940	69.7	87.2	89.7	94.1	68.7	81.4	104	60	48	45	40	51	26	21	.361	.315	.265	.06	.03	1.8	.9	2.3	1.9
July	26.199	26.410	25.970	71.7	87.8	89.9	93.8	70.0	81.9	101	63	55	52	50	57	31	26	.432	.395	.361	1.08	.63	2.1	1.7	3.2	2.4
August	26.182	26.370	26.045	72.9	87.6	89.2	93.5	71.6	82.6	99	67	54	53	50	53	32	28	.423	.412	.362	.27	.16	2.6	1.5	3.4	2.7
September	26.205	26.420	26.041	66.1	81.5	81.9	86.5	64.7	75.6	98	57	52	50	48	62	36	34	.394	.369	.341	1.07	.91	1.3	2.4	2.3	2.1
October	26.184	26.460	25.800	54.0	70.7	70.7	75.7	52.3	64.0	90	37	39	39	38	61	35	34	.240	.243	.233	.35	.13	2.1	2.4	1.6	2.3
November	26.220	26.510	25.870	41.0	56.0	56.9	61.8	38.4	50.1	77	27	31	31	30	68	40	38	.173	.177	.170	.29	.12	2.2	3.1	2.4	2.8
December	26.245	26.470	25.950	39.5	55.1	58.7	61.2	37.3	49.2	69	27	26	28	26	59	35	31	.151	.155	.145	.09	.06	1.4	2.8	1.4	2.5
Year	26.177	26.610	25.750	53.7	69.9	71.8	76.1	51.7	63.9	104	14	35	34	32	53	30	26	.238	.228	.205	4.30	.91	2.0	2.3	2.6	2.6

Annual meteorological summary for the year ending December 31, 1922—Continued.

EASTPORT, ME.

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

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest	West	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	14.0	NW.	74	NE.	4	10	2	2	3	2	12	16	15	0	13	6	12	9	7	8	7	1	2	20	0	31	0	2
February	13.1	W.	44	NW.	2	6	2	6	6	1	12	12	11	0	7	6	15	15	9	15	14	1	0	14	0	28	0	2
March	11.7	NW.	48	SE.	4	7	2	7	2	9	7	11	17	0	7	12	12	9	9	5	3	0	4	4	0	23	1	3
April	12.1	NW.	43	E.	2	8	9	3	0	10	6	10	13	1	2	10	18	12	10	3	2	0	4	0	0	8	1	1
May	10.1	S.	35	E.	0	5	4	6	4	14	12	2	14	1	11	6	14	11	9	0	0	0	7	0	0	0	3	0
June	8.0	S.	33	SW.	0	1	2	8	3	30	9	4	1	2	4	10	16	13	10	0	0	1	13	0	0	0	3	0
July	7.4	S.	39	NE.	0	4	7	2	0	29	6	4	3	7	10	7	14	13	11	0	0	0	13	0	0	0	2	1
August	7.2	S.	29	SW.	0	2	7	1	2	25	10	0	10	5	4	11	16	15	11	0	0	0	19	0	0	0	6	0
September	7.6	S.	26	NW.	0	3	2	3	0	18	14	6	12	2	11	10	9	5	3	0	0	0	8	0	0	0	2	1
October	11.4	W.	37	S.	0	4	8	2	0	12	10	14	11	1	6	5	20	15	9	7	4	0	10	0	0	9	3	0
November	11.4	NW.	31	NW.	0	5	6	2	1	2	8	18	18	0	7	5	18	13	8	9	5	0	1	6	0	19	0	0
December	14.0	W.	58	NE.	3	6	7	0	3	5	9	22	10	0	5	7	19	16	12	17	11	0	1	16	0	29	0	0
Year	10.7	S.	74	NE.	15	61	58	42	24	157	115	119	135	19	87	95	183	146	108	64	46	3	82	60	0	147	21	10

ELKINS, W. VA.

[H_b=1,947 ft.; h_t=59 ft.; h_r=52 ft.; h_a=67 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	5.9	W.	31	NW.	0	10	5	6	5	2	7	14	10	3	7	7	17	14	9	12	6	0	0	9	0	27	1	0
February	6.6	NW.	36	NW.	0	6	3	1	8	7	4	10	13	4	1	13	14	18	14	9	7	0	0	3	0	17	4	0
March	6.7	W.	24	W.	0	8	2	2	12	10	4	14	7	3	6	6	19	19	17	9	7	1	1	2	0	16	1	0
April	6.9	W.	33	NW.	0	12	3	1	6	6	6	12	11	3	4	14	12	13	11	2	1	0	0	0	0	8	3	0
May	4.1	NW.	29	SW.	0	4	5	4	9	5	5	9	16	5	8	8	15	14	11	0	0	0	1	0	0	0	5	0
June	3.9	NW.	25	NW.	0	10	2	4	6	7	2	15	9	5	3	12	15	14	12	0	0	1	4	0	0	0	7	0
July	3.4	W.	21	W.	0	6	3	5	10	9	7	8	13	1	6	15	10	14	12	0	0	0	9	0	1	0	11	0
August	3.2	W.	18	NW.	0	8	7	1	10	8	7	6	7	8	6	13	12	11	10	0	0	0	13	0	0	0	8	0
September	3.0	NW.	26	NW.	0	10	3	7	11	5	3	4	9	8	16	10	4	6	2	0	0	0	20	0	0	0	4	0
October	3.9	W.	24	NW.	0	4	16	4	7	3	3	12	7	6	13	10	8	7	5	0	0	0	6	0	0	10	1	0
November	5.3	W.	30	W.	0	2	5	4	5	4	4	21	11	4	5	8	17	11	7	7	6	0	5	3	0	19	1	0
December	5.5	W.	29	NW.	0	6	10	5	7	3	6	12	11	2	6	6	19	15	13	7	3	0	1	6	0	29	1	0
Year	4.9	W.	36	NW.	0	86	64	44	96	69	58	137	124	52	81	122	162	156	123	46	30	2	60	23	1	126	47	0

ELLENDALE, N. DAK.

[H_b=1,457 ft.; h_t=10 ft.; h_r=3 ft.; h_a=56 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	14.6	NW.	57	NW.	2	4	2	0	2	9	4	1	9	0	10	8	13	6	4	17	6	0	1	26	0	31	0	0
February	17.1	NW.	57	N.	6	3	3	1	0	3	3	4	11	0	7	9	12	8	6	13	8	0	1	27	0	28	0	4
March	15.5	SE.	48	NE.	4	8	3	1	5	4	6	1	3	0	8	5	18	6	6	7	4	0	1	11	0	31	1	0
April	13.6	NE.	48	NW.	3	5	7	2	2	6	1	0	7	0	5	9	16	10	7	1	1	1	3	0	0	13	4	2
May	14.3	NW.	59	SE.	6	5	2	1	4	4	4	4	7	0	2	13	16	14	9	0	0	1	0	0	0	0	9	1
June	11.7	SW.	51	W.	2	3	6	0	3	5	5	2	6	0	7	11	12	10	9	0	0	1	1	0	1	0	9	0
July	10.0	NW.	50	NW.	2	3	0	1	5	4	3	0	15	0	11	15	5	7	4	0	0	1	0	0	1	0	7	2
August	11.5	S.	56	N.	2	4	2	1	5	8	1	1	9	0	17	11	3	5	1	0	0	0	0	0	7	0	6	0
September	11.9	NW.	46	SW.	3	5	3	1	2	5	3	3	8	0	17	4	9	9	6	0	0	0	3	0	4	0	4	1
October	13.6	NW.	48	NW.	2	4	5	0	0	4	6	3	9	0	10	8	13	4	4	1	1	0	1	0	1	18	0	0
November	14.5	NW.	48	NW.	6	3	4	3	5	2	3	1	9	0	3	8	19	11	7	6	4	0	5	6	0	22	1	0
December	13.9	NW.	53	NW.	6	1	4	1	2	3	3	5	12	0	8	6	17	4	3	9	4	0	3	22	0	31	0	0
Year	13.5	NW.	59	SE.	44	48	41	12	35	57	42	25	105	0	105	107	153	94	66	54	28	4	19	92	14	174	41	10

EL PASO, TEX.

[H_b=3,762 ft.; h_t=110 ft.; h_r=102 ft.; h_a=133 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	10.2	NW.	46	SW.	3	5	11	6	7	0	3	14	16	0	19	8	4	5	2	2	2	1	0	0	0	17	0	0
February	11.5	W.	48	W.	1	3	4	7	6	0	2	24	10	0	11	15	2	0	0	1	0	0	0	0	0	6	0	0
March	13.6	W.	64	SW.	5	2	5	5	10	1	4	23	12	0	19	12	0	1	1	1	0	0	0	0	0	7	0	0
April	14.9	W.	57	W.	5	0	7	11	5	1	5	21	10	0	17	13	0	4	3	0	0	0	0	0	0	0	2	0
May	12.9	W.	42	W.	1	0	5	7	11	0	3	20	16	0	23	8	0	4	3	0	0	0	0	0	4	0	4	0
June	10.9	E.	48	SW.	1	2	5	26	10	1	3	3	10	0	23	7	0	2	0	0	0	0	0	0	26	0	7	0
July	10.1	SE.	46	NE.	4	0	5	16	25	0	3	5	8	0	23	8	0	9	5	0	0	0	0	0	27	0	8	0
August	8.7	SE.	39	SW.	0	1	8	17	25	2	2	4	3	0	18	13	0	6	2	0	0	0	0	0	27	0	5	0
September	9.0	E.	34	NW.	0	1	8	21	18	3	2	5	2	0	21	7	2	6	2	0	0	0	0	0	11	0	5	0
October	8.7	E.	45	NW.	2	2	8	18	9	6	2	8	9	0	21	9	1	4	3	0	0	0	0	0	0	0	0	0
November	11.0	E.	43	E.	2	0	10	13	4	5	2	10	16	0	19	6	5	5	3	1	0	0	0	0	0	2	0	0
December	8.8	NW.	57	NW.	0	2	3	7	2	0	1	17	30	0	20	9	2	2	1	0	0	0	0	0	0	11	0	0
Year	10.8	E.	64	SW.	24	18	79	154	132	19	32	154	142	0	234	115	16	48	25	5	2	1	0	0	95	43	31	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

ERIE, PA.

[ϕ=42° 07′ N.; λ=80° 05′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.			Extremes.			Dew point.			Relative humidity			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.369	29.907	28.730	23.5	26.9	26.4	32.4	19.0	25.7	55	5	17	18	18	73	68	68	0.096	0.100	0.194	1.97	0.56	7.0	7.0	4.6	5.8
February	29.299	29.860	28.610	28.1	31.8	30.0	37.2	22.4	29.8	65	1	22	24	24	76	71	76	.124	.133	.135	1.25	0.39	7.5	7.4	7.4	7.0
March	29.287	29.850	28.540	34.2	38.4	38.3	45.3	29.2	37.2	75	16	27	28	29	74	67	70	.151	.158	.167	4.34	0.98	7.1	7.5	5.8	6.6
April	29.289	29.714	28.450	45.6	49.4	49.0	55.9	39.5	47.7	78	29	38	40	38	74	70	68	.239	.259	.246	2.45	0.84	6.1	5.6	5.6	5.6
May	29.211	29.650	28.420	59.9	63.8	62.9	69.2	53.3	61.2	83	42	48	49	49	68	62	64	.351	.361	.362	1.98	0.63	5.0	4.4	4.6	4.2
June	29.215	29.450	28.780	66.4	69.9	70.0	75.2	60.2	67.7	90	48	56	56	57	70	63	65	.461	.458	.472	2.11	1.09	5.0	4.7	5.1	4.8
July	29.201	29.490	28.990	70.1	75.1	73.4	79.3	63.7	71.5	93	53	60	60	59	70	61	63	.519	.532	.515	4.00	1.14	5.1	5.2	4.5	4.7
August	29.236	29.550	28.790	68.2	73.9	71.7	77.8	61.8	69.8	90	51	57	58	58	68	58	63	.473	.487	.490	2.66	.82	4.0	4.0	3.7	3.8
September	29.342	29.660	29.030	63.9	70.7	66.9	74.5	58.3	66.4	91	40	54	57	56	72	62	70	.442	.473	.466	1.72	1.03	4.5	4.2	3.1	3.8
October	29.228	29.690	28.700	51.6	58.1	55.1	61.9	47.3	54.6	83	32	42	44	43	70	62	66	.285	.316	.306	2.01	.68	5.5	5.4	4.8	5.2
November	29.285	29.730	28.770	40.9	45.3	45.0	49.4	38.0	43.7	65	25	33	34	34	73	66	65	.193	.204	.200	2.99	.79	7.6	8.0	8.2	8.0
December	29.306	29.750	28.860	31.1	33.2	32.3	37.5	24.8	31.2	64	13	23	25	25	72	70	73	.132	.141	.139	2.25	1.09	8.5	8.4	7.4	8.7
Year	29.277	29.907	28.420	48.6	53.0	51.8	58.0	43.1	50.5	93	1	40	41	41	72	65	68	.289	.302	3.00	29.73	1.14	6.1	6.0	5.4	5.7

ESCANABA, MICH.

[ϕ=45° 48′ N.; λ=87° 05′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.451	30.090	28.680	10.0	18.5	17.5	23.7	5.7	14.7	38	−17	8	12	13	90	72	82	0.063	0.074	0.081	1.12	0.73	5.5	5.3	4.5	4.9
February	29.378	30.019	28.468	11.0	18.7	17.9	23.9	7.2	15.6	37	−11	9	12	13	92	73	80	.071	.079	.083	2.71	.79	5.7	4.9	5.5	4.7
March	29.414	29.970	28.540	23.1	31.2	29.7	35.0	20.2	27.6	51	−3	20	22	23	88	70	76	.112	.123	.122	2.21	.98	5.3	4.7	4.8	4.5
April	29.363	29.850	28.420	35.3	41.1	38.3	44.7	31.5	38.1	65	23	31	31	31	84	69	77	.175	.177	.178	4.23	1.62	6.0	5.6	6.2	5.9
May	29.305	29.750	28.732	52.5	57.9	57.9	63.3	48.5	55.9	76	43	46	47	48	80	70	71	.317	.328	.337	2.35	.80	4.1	4.8	3.7	4.3
June	29.306	29.724	28.890	59.0	65.3	63.6	69.5	52.7	61.1	85	38	53	54	52	80	68	69	.405	.420	.404	3.63	2.40	4.2	5.6	4.7	4.5
July	29.328	29.670	28.830	61.6	67.6	66.2	70.9	57.0	64.0	78	45	56	57	57	83	71	73	.462	.478	.470	7.37	2.94	5.3	5.6	4.7	5.5
August	29.333	29.570	28.890	61.0	69.2	67.7	72.5	56.5	64.5	92	45	57	58	59	87	69	74	.482	.501	.514	2.18	.49	4.7	4.9	4.3	4.8
September	29.431	29.870	29.080	55.4	65.0	62.3	68.4	52.0	60.2	85	37	52	52	53	87	65	73	.400	.416	.424	4.45	2.09	4.6	4.9	4.5	4.8
October	29.319	29.760	28.700	42.6	49.6	47.8	53.6	39.1	46.4	86	26	38	39	40	85	68	75	.245	.259	.259	.71	.22	4.9	5.3	5.3	5.5
November	29.339	29.920	28.700	35.9	39.7	38.4	43.0	32.6	37.8	61	19	32	32	33	84	73	80	.188	.187	.194	2.02	.76	7.9	8.3	7.9	8.4
December	29.363	29.871	28.760	15.0	20.9	19.9	25.8	9.9	17.8	45	−11	12	14	15	87	73	79	.082	.091	.094	.94	.21	5.3	6.1	6.3	6.3
Year	29.361	30.090	28.420	38.5	45.4	43.9	49.5	34.4	42.0	92	−17	34	36	36	86	70	76	.250	.261	.263	33.92	2.94	5.3	5.5	5.2	5.3

EUREKA, CALIF.

[ϕ=40° 48′ N.; λ=124° 11′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	30.106	30.416	29.400	40.3	47.7	47.2	50.0	36.5	43.2	59	25	35	37	38	82	68	72	0.208	0.227	0.236	2.54	0.83	4.6	5.2	6.4	5.6
February	29.983	30.403	29.419	42.0	48.6	47.7	51.0	39.1	45.0	62	30	39	40	40	88	72	77	.237	.247	.255	9.75	2.98	6.4	7.0	7.3	6.7
March	30.059	30.460	29.560	43.9	50.1	49.4	52.9	41.3	47.1	61	33	39	41	41	84	72	74	.240	.257	.257	6.43	1.25	7.6	8.0	7.2	7.5
April	30.164	30.493	29.743	43.1	48.6	48.6	50.5	41.7	46.1	54	34	40	42	41	88	77	76	.248	.263	.261	2.39	.87	7.7	4.4	5.9	5.6
May	30.064	30.330	29.738	47.0	53.3	53.3	56.3	45.6	51.0	73	37	44	46	46	89	78	77	.287	.314	.310	.95	.43	6.7	6.0	5.7	6.3
June	29.980	30.230	29.838	52.1	57.5	57.7	60.2	51.0	55.6	65	46	50	51	51	92	80	78	.355	.374	.373	.14	.10	6.8	5.7	4.6	5.5
July	30.015	30.213	29.780	52.1	56.4	56.7	58.8	51.4	55.1	67	49	50	51	51	92	82	81	.357	.374	.371	.00	.00	8.1	7.1	6.8	7.6
August	29.999	30.140	29.840	53.1	59.4	59.4	61.0	51.9	56.9	70	47	51	52	53	93	78	80	.374	.395	.406	.03	.02	6.1	4.4	4.6	5.7
September	29.963	30.160	29.792	52.4	59.1	58.6	61.4	50.7	56.0	75	45	50	52	53	94	78	82	.367	.390	.399	.37	.35	4.3	4.6	3.9	5.3
October	29.975	30.180	29.600	52.0	58.4	56.7	60.2	49.4	54.8	74	40	48	50	50	87	75	80	.336	.360	.366	3.38	1.19	5.9	6.6	6.1	6.4
November	30.074	30.369	29.540	44.7	52.5	51.5	54.5	41.9	48.2	61	34	42	44	45	91	75	80	.271	.294	.302	3.32	1.10	5.2	4.3	4.5	5.2
December	30.033	30.431	29.470	45.5	51.0	50.1	53.5	41.8	47.6	64	35	41	44	44	86	77	80	.262	.288	.290	7.62	2.18	5.5	7.9	7.8	8.0
Year	30.035	30.493	29.400	47.4	53.6	53.1	55.9	45.6	50.6	75	25	44	46	46	89	76	78	.295	.315	.319	36.92	2.98	6.2	5.9	5.9	6.3

EVANSVILLE, IND.

[ϕ=37° 58′ N.; λ=87° 33′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.740	30.210	29.050	28.6	35.2	34.7	39.6	25.0	32.3	62	11	22	25	25	74	65	68	0.126	0.142	0.145	1.47	0.53	5.3	5.6	5.0	6.1
February	29.678	30.103	29.140	35.2	41.4	41.0	46.4	31.4	38.9	72	15	28	30	32	74	63	68	.169	.186	.199	2.38	.89	5.6	6.9	6.4	6.6
March	29.591	29.930	28.910	44.1	51.7	49.8	56.3	40.9	48.6	73	26	37	38	39	77	62	68	.235	.249	.249	8.20	2.01	7.0	6.6	6.5	6.9
April	29.587	30.020	28.880	53.9	64.8	63.7	69.2	49.3	59.2	84	36	45	45	46	73	52	55	.326	.337	.333	4.07	1.32	5.7	5.4	5.6	5.8
May	29.496	29.846	29.010	65.0	76.4	73.2	79.7	61.0	70.4	88	53	56	54	57	72	49	58	.455	.437	.470	2.69	1.12	4.8	5.3	5.5	5.9
June	29.537	29.736	29.370	71.6	84.3	80.4	87.9	67.8	77.8	96	57	64	62	64	77	49	61	.603	.565	.617	2.65	.65	5.2	4.8	4.8	5.3
July	29.579	29.800	29.380	73.0	84.6	81.1	87.7	69.3	78.5	96	56	65	62	64	75	49	59	.620	.582	.620	6.39	2.91	4.5	5.1	5.1	5.1
August	29.549	29.780	29.257	71.1	84.1	81.5	87.6	68.0	77.8	96	60	62	61	62	74	47	52	.569	.556	.566	3.06	2.02	3.2	4.1	3.9	4.5
September	29.632	29.840	29.440	66.0	81.9	77.3	85.7	63.6	74.6	99	49	59	60	58	78	48	53	.511	.531	.504	2.16	1.20	2.7	2.6	2.4	2.9
October	29.574	29.900	29.230	54.3	63.6	65.8	72.4	52.4	62.4	91	39	46	45	46	73	46	52	.321	.321	.329	2.12	.75	4.3	3.9	3.2	4.0
November	29.700	29.980	29.080	43.4	54.0	51.5	57.7	40.9	49.3	78	24	38	38	39	80	55	63	.242	.244	.250	1.64	.54	3.5	4.6	4.6	4.7
December	29.652	30.154	29.030	35.7	43.0	41.4	47.9	30.8	39.4	66	12	30	33	32	80	67	69	.191	.206	.196	5.94	2.21	5.1	6.5	6.1	6.6
Year	29.610	30.210	28.880	53.5	64.2	61.8	68.2	50.0	59.1	99	11	46	46	47	76	54	60	.364	.363	.373	42.79	2.91	4.8	5.1	4.9	5.4

Annual meteorological summary for the year ending December 31, 1922—Continued.

ERIE, PA.

[H_b=714 ft.; h_a=130 ft.; h_r=122 ft.; h_a=166 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.01 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	16.6	W.	63	SE.	8	4	12	0	4	13	8	12	9	0	8	13	10	11	8	17	8	0	0	18	0	30	0	0
February	15.9	NW.	62	W.	7	1	6	0	3	11	5	13	17	0	2	13	13	11	8	15	6	0	1	11	0	26	1	0
March	13.8	NE.	55	SE.	6	6	15	3	8	7	5	10	8	0	7	8	16	14	12	12	5	0	1	7	0	20	1	0
April	16.1	W.	65	W.	9	5	9	0	5	14	3	18	6	0	8	11	11	13	12	3	1	0	1	0	0	3	5	0
May	10.9	NW.	46	SW.	2	8	12	2	7	11	5	5	11	1	14	10	7	7	6	0	0	0	2	0	0	0	1	1
June	11.0	N.	43	W.	2	14	7	2	5	7	6	13	6	0	11	14	5	11	7	0	0	0	1	0	1	0	10	0
July	10.5	N.	40	SW.	1	15	6	2	9	10	6	5	9	0	11	16	4	12	11	0	0	0	0	0	3	0	6	0
August	10.8	NW.	38	SW.	0	9	7	3	5	16	2	8	12	0	16	11	4	8	7	0	0	0	0	0	1	0	7	0
September	11.1	N.	33	NW.	0	12	6	1	8	18	2	5	8	0	15	10	5	6	5	0	0	0	0	0	3	0	2	0
October	14.2	S.	38	SW.	0	5	8	1	3	17	8	8	12	0	12	6	13	9	8	1	0	0	0	0	0	1	3	0
November	16.1	NW.	48	NW.	2	0	4	1	5	17	8	5	20	0	2	7	21	15	12	11	6	0	0	2	0	8	0	0
December	16.7	SW.	53	SE.	6	1	6	2	9	12	9	17	6	0	1	4	26	12	8	12	6	0	1	11	0	25	1	0
Year	13.6	S.	65	W.	43	80	98	17	71	153	67	119	124	1	107	123	135	129	104	71	32	0	7	49	8	113	37	1

ESCANABA, MICH.

[H_b=612 ft.; h_a=54 ft.; h_r=44 ft.; h_a=60 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.01 inch and over.	T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	9.9	NW.	38	NE.	0	8	5	3	1	3	19	4	18	1	11	8	12	7	5	18	7	0	0	29	0	31	0	1
February	10.3	NW.	48	NE.	1	4	7	2	3	4	16	6	13	1	15	1	12	12	7	17	11	0	1	23	0	28	1	0
March	9.8	S.	39	N.	0	15	7	5	4	16	4	4	7	0	17	3	11	9	6	9	5	0	2	11	0	29	2	1
April	9.7	S.	42	NE.	1	16	10	2	3	14	4	4	6	1	8	9	13	12	8	9	5	0	3	0	0	16	4	0
May	8.7	S.	27	NE.	0	11	12	3	10	18	2	1	3	2	14	9	8	13	7	0	0	0	4	0	0	0	2	2
June	9.4	S.	36	N.	0	12	11	3	3	17	5	2	7	0	13	9	8	8	7	0	0	0	0	0	0	0	6	0
July	8.7	S.	43	NE.	1	16	4	2	1	19	9	2	7	2	10	10	11	11	9	0	0	0	0	0	0	0	4	4
August	7.7	S.	33	N.	0	9	7	2	4	16	12	5	7	0	12	11	8	15	10	0	0	1	4	0	1	0	8	0
September	8.3	SW.	36	N.	0	8	4	2	6	9	20	1	9	1	10	11	9	9	7	0	0	0	1	0	0	0	6	2
October	10.3	N.	37	S.	0	16	5	5	2	7	11	5	10	1	9	11	11	7	6	4	2	0	4	0	0	6	0	1
November	10.3	SW.	36	NE.	0	7	4	2	6	4	15	7	15	0	3	3	24	13	9	9	3	0	1	5	0	15	0	0
December	10.3	W.	32	NW.	0	4	7	2	1	5	15	17	11	0	9	7	15	10	7	15	7	0	1	19	0	31	0	0
Year	9.4	S.	48	NE.	3	126	83	33	44	132	132	58	113	9	131	92	142	126	88	81	40	1	21	87	1	156	33	11

EUREKA, CALIF.

[H_b=62 ft.; h_a=73 ft.; h_r=65 ft.; h_A=89 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.01 inch and over.	T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	5.6	SE.	39	N.	0	17	3	4	14	6	6	2	3	7	9	8	14	16	14	1	1	3	4	0	0	5	0	0
February	6.9	SE.	37	SW.	0	11	1	7	12	5	9	3	6	2	7	7	14	17	12	0	0	4	0	0	0	1	0	0
March	7.8	SE.	32	SW.	0	10	0	0	14	10	14	2	6	6	4	9	18	20	17	2	1	2	0	0	0	0	0	0
April	9.4	N.	38	N.	0	27	6	4	3	4	4	0	10	2	10	11	9	11	10	0	0	2	0	0	0	0	0	0
May	6.9	N.	36	N.	0	22	5	1	7	1	4	4	12	6	9	8	14	7	6	0	0	0	4	0	0	0	0	0
June	5.8	N.	25	N.	0	17	2	1	4	4	5	5	16	6	9	11	10	5	2	0	0	0	1	0	0	0	0	0
July	5.5	NW.	19	NW.	0	13	0	1	2	6	13	6	18	3	3	9	19	0	0	0	0	0	2	0	0	0	0	0
August	5.2	NW.	21	N.	0	15	1	2	5	2	7	8	18	4	6	17	8	2	0	0	0	0	3	0	0	0	1	0
September	4.7	N.	30	NW.	0	18	3	5	3	2	8	8	11	2	10	10	10	3	1	0	0	0	10	0	0	0	0	0
October	4.6	SE.	30	SW.	0	14	3	4	13	3	5	6	6	8	8	7	16	11	7	0	0	0	1	0	0	0	1	0
November	4.3	SE.	30	N.	0	12	5	5	12	3	4	3	5	11	12	7	11	12	8	0	0	0	9	0	0	0	1	0
December	6.3	SE.	49	SW.	1	9	2	7	16	7	8	5	2	6	3	6	22	22	18	0	0	2	6	0	0	0	1	0
Year	6.1	N.	49	SW.	1	185	31	41	105	53	87	52	113	63	90	110	165	126	95	3	2	13	40	0	0	6	4	0

EVANSVILLE, IND.

[H_b=431 ft.; h_a=139 ft.; h_r=135 ft.; h_a=175 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.01 inch and over.	T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	12.3	NE.	40	N.	1	9	19	7	4	2	9	3	9	0	7	14	10	10	7	6	3	0	3	9	0	25	0	0
February	13.8	NE.	44	NW.	2	12	13	3	2	6	10	5	5	0	5	8	15	10	9	3	2	0	1	3	0	15	2	0
March	14.0	SW.	52	W.	4	7	10	9	6	7	9	7	7	0	5	10	16	16	14	5	0	2	1	2	0	5	5	0
April	13.6	SW.	55	W.	6	7	15	5	7	8	10	5	3	0	5	17	8	10	8	0	0	1	0	0	0	0	4	0
May	9.5	SW.	40	W.	1	8	6	12	8	8	12	4	4	0	7	19	5	9	8	0	0	2	0	0	0	0	7	0
June	9.0	SW.	46	N.	2	5	15	10	3	3	15	7	2	0	6	20	4	12	10	0	0	1	1	0	10	0	9	0
July	8.8	SW.	68	W.	1	3	13	9	1	5	19	11	1	0	9	18	4	8	8	0	0	0	0	0	8	0	9	0
August	8.1	SW.	42	NW.	1	12	11	5	4	8	13	9	0	0	8	21	2	7	6	0	0	0	0	0	15	0	6	0
September	8.2	NE.	30	SW.	0	5	18	4	5	8	10	7	2	0	20	8	2	4	4	0	0	0	0	0	9	0	4	0
October	9.3	SW.	30	N.	0	9	8	11	5	8	11	4	6	0	14	10	7	8	7	0	0	0	0	0	2	0	0	0
November	11.2	SW.	37	SW.	0	12	5	4	5	10	8	12	4	0	11	12	7	8	7	2	2	0	0	0	0	7	1	0
December	12.0	N.	37	S.	0	12	8	10	5	5	12	4	6	0	6	10	15	13	12	3	2	0	2	3	0	19	4	0
Year	10.8	NE.	68	W.	18	101	141	89	56	78	138	78	49	0	103	167	95	115	100	19	9	6	8	17	44	71	51	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

FORT SMITH, ARK.

[ϕ=35° 22′ N.; λ=94° 24′ W.]

Month.	Pressure.			Temperature.								Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.683	30.080	29.020	34.6	40.9	42.1	46.7	31.3	39.0	69	18	29	33	32	80	73	66	0.169	0.193	0.185	2.44	1.73	7.0	7.1	6.2	6.9
February	29.600	30.080	29.120	42.7	50.4	50.0	55.9	38.5	47.2	79	24	36	38	37	76	63	62	.230	.250	.236	2.44	.95	6.7	7.2	7.2	6.9
March	29.524	29.920	29.040	45.3	54.2	55.4	60.5	42.5	51.6	77	19	39	43	42	78	68	64	.253	.295	.268	4.28	1.31	6.6	6.7	5.1	6.0
April	29.479	30.008	28.940	58.1	68.2	68.0	73.4	53.8	63.6	85	38	52	54	53	80	62	62	.402	.429	.422	4.30	1.03	6.2	6.2	5.8	6.0
May	29.422	29.690	29.120	65.0	75.9	75.5	80.0	62.8	71.4	89	53	60	61	61	85	61	62	.532	.546	.549	2.86	.74	6.4	6.6	5.8	6.3
June	29.499	29.670	29.320	73.1	85.4	85.0	89.5	69.7	79.6	99	58	67	66	66	82	54	55	.669	.646	.649	1.04	.61	4.7	6.2	4.8	5.2
July	29.518	29.750	29.300	75.9	87.2	87.2	92.1	73.0	82.6	102	61	70	71	71	83	61	59	.746	.772	.763	2.05	1.40	5.2	6.1	4.4	5.5
August	29.485	29.650	29.310	74.2	88.1	88.1	93.9	72.0	83.0	103	62	66	66	67	77	50	51	.648	.655	.676	1.88	1.07	4.1	4.4	5.1	4.3
September	29.557	29.740	29.330	67.6	85.2	83.7	90.1	66.0	78.0	101	53	57	56	56	69	38	41	.480	.467	.472	.48	.29	2.4	2.5	2.7	2.3
October	29.520	29.920	29.250	53.7	72.0	69.7	76.3	52.2	64.2	90	37	45	45	46	74	40	46	.319	.321	.335	2.80	1.97	3.8	4.3	3.8	4.1
November	29.550	29.940	29.250	45.4	58.2	57.0	63.1	43.6	53.4	81	32	39	38	40	78	51	56	.244	.243	.261	5.28	3.03	5.0	4.6	4.2	4.8
December	29.582	30.020	29.060	40.0	49.8	48.9	55.6	37.7	46.6	77	25	34	35	36	77	58	64	.212	.233	.237	3.27	1.14	5.8	5.7	5.5	5.9
Year	29.543	30.080	28.940	56.3	68.0	67.6	73.1	53.6	63.4	103	18	50	50	51	78	57	57	.409	.421	.423	33.12	3.03	5.3	5.6	5.0	5.4

FORT WAYNE, IND.

[ϕ=41° 05′ N.; λ=85° 10′ W.]

January	29.247	29.830	28.640	18.3	26.4	25.2	31.5	14.3	22.9	56	−6	14	18	18	84	68	73	0.089	0.105	0.106	1.72	0.81	5.5	5.0	4.3	5.1
February	29.173	29.740	28.580	27.2	32.6	32.1	37.8	23.5	30.6	67	10	22	25	25	80	73	75	.128	.144	.144	.87	.33	6.9	7.1	7.3	7.3
March	29.133	29.600	28.300	34.0	41.6	41.2	46.3	31.5	38.9	71	20	29	31	32	81	68	72	.163	.181	.193	6.03	1.44	7.3	7.2	6.9	7.0
April	29.129	29.497	28.260	45.6	55.0	54.6	60.1	41.6	50.8	78	29	38	39	42	76	58	64	.246	.260	.284	3.99	1.35	6.7	6.5	6.1	6.7
May	29.051	29.465	28.370	59.4	71.0	67.3	74.5	54.6	64.6	86	41	53	54	55	81	59	66	.415	.441	.440	3.84	1.38	5.2	5.8	6.0	5.6
June	29.082	29.310	28.788	66.2	77.1	75.4	80.8	60.7	70.8	95	52	57	56	58	73	50	57	.479	.467	.492	1.85	.87	5.0	5.2	4.1	5.0
July	29.119	29.400	28.860	67.4	78.1	76.2	81.9	62.3	72.1	90	51	61	60	59	81	54	57	.549	.531	.511	4.08	1.91	5.6	6.1	5.4	5.4
August	29.100	29.365	28.660	65.9	79.1	75.9	82.2	61.0	71.6	95	53	59	56	57	78	47	53	.501	.459	.476	1.56	.45	4.3	5.2	4.8	5.1
September	29.195	29.510	28.940	60.4	75.6	71.9	79.5	57.2	68.4	96	41	54	53	54	80	47	56	.440	.424	.449	1.70	1.26	3.1	3.1	3.1	3.3
October	29.109	29.497	28.630	48.3	61.9	58.1	65.4	45.6	55.5	88	32	43	43	45	82	55	64	.293	.296	.311	2.62	1.74	5.8	4.9	3.2	4.9
November	29.175	29.481	28.630	39.6	46.6	43.7	48.6	35.9	42.2	69	23	35	38	37	83	72	78	.218	.244	.233	1.72	.50	6.3	7.8	6.6	7.2
December	29.166	29.690	28.690	26.4	32.0	30.3	37.4	22.1	29.8	60	−4	22	24	24	81	73	74	.131	.138	.133	3.12	.78	6.5	6.7	6.7	6.9
Year	29.139	29.830	28.260	46.6	56.4	54.3	60.5	42.5	51.5	96	−6	41	41	42	80	60	66	.304	.308	.314	33.10	1.91	5.7	5.9	5.4	5.8

FORT WORTH, TEX.

[ϕ=32° 43′ N.; λ=97° 15′ W.]

January	29.418	29.780	28.840	37.6	45.5	46.4	51.7	34.4	43.0	73	19	31	33	34	78	65	64	0.187	0.204	0.209	1.63	0.68	6.9	7.0	6.1	6.9
February	29.335	29.840	28.960	46.4	55.3	55.9	62.5	42.5	52.5	88	20	40	41	39	80	64	56	.270	.282	.265	2.00	.64	5.0	6.4	5.5	6.1
March	29.271	29.710	28.870	48.2	60.8	62.1	67.6	45.2	56.4	81	18	41	43	40	76	55	49	.287	.300	.275	1.57	.62	5.6	4.5	4.3	4.8
April	29.218	29.780	28.700	59.4	68.3	70.1	74.0	56.6	65.3	85	41	54	54	54	84	66	60	.422	.447	.447	17.64	8.81	7.0	6.3	6.3	6.8
May	29.165	29.360	28.940	66.9	77.9	78.6	83.2	65.0	74.1	98	52	61	63	62	83	63	59	.548	.586	.560	4.56	3.40	5.1	5.0	5.2	5.1
June	29.240	29.420	29.040	72.1	85.1	85.4	89.6	70.9	80.2	100	60	66	64	64	81	52	50	.636	.609	.591	1.76	.86	4.7	5.1	4.2	4.9
July	29.263	29.509	29.040	75.7	90.3	88.0	95.5	74.5	85.0	104	65	68	66	64	76	46	42	.677	.634	.595	1.35	1.25	3.1	3.9	2.6	3.6
August	29.224	29.370	29.050	75.2	91.0	91.3	96.0	74.4	85.2	103	67	66	64	62	75	42	39	.647	.601	.561	.52	.21	4.3	5.2	3.0	4.2
September	29.289	29.520	29.100	69.4	86.0	85.2	90.2	68.7	79.4	99	56	60	60	58	73	42	41	.532	.519	.489	.41	.28	2.0	3.3	2.0	2.6
October	29.272	29.670	28.980	57.2	74.5	72.6	79.2	56.0	67.6	90	41	50	50	48	77	46	46	.371	.387	.363	2.33	1.06	4.0	3.6	3.1	3.6
November	29.398	29.690	29.083	50.5	61.3	61.0	66.3	48.7	57.5	82	38	44	46	45	78	59	58	.302	.329	.318	2.57	1.75	5.5	5.1	4.3	5.4
December	29.343	29.730	28.930	46.4	56.5	56.2	63.3	42.4	52.8	83	28	39	38	38	74	53	54	.273	.264	.263	.06	.03	4.6	4.5	3.9	4.8
Year	29.286	29.840	28.700	58.8	71.0	71.1	76.6	56.6	66.6	104	18	52	52	51	78	54	52	.429	.430	.411	36.42	8.81	4.8	5.0	4.2	4.9

FRESNO, CALIF.

[ϕ=36° 43′ N.; λ=119° 49′ W.]

January	29.773	30.090	29.070	36.8	45.0	46.1	49.0	34.4	41.7	60	24	33	34	35	87	68	67	0.193	0.208	0.206	2.46	1.72	3.7	4.5	4.2	4.8
February	29.727	30.040	29.370	43.7	53.4	55.2	57.8	41.4	49.6	71	29	39	40	39	85	60	56	.244	.246	.243	2.19	1.11	4.8	6.4	7.0	6.2
March	29.745	30.050	29.195	45.0	57.1	59.6	62.4	42.7	52.6	75	33	40	40	39	85	55	49	.255	.257	.243	1.53	.63	3.6	5.5	5.3	5.5
April	29.686	30.090	29.431	46.4	64.2	68.2	70.0	44.9	57.4	83	35	39	36	33	77	37	30	.245	.217	.199	.10	.10	2.2	2.3	.7	1.5
May	29.589	29.890	29.340	55.5	76.5	81.4	83.0	54.2	68.6	95	39	44	41	37	67	30	22	.294	.267	.226	.49	.20	1.5	1.7	1.8	1.8
June	29.545	29.820	29.370	62.6	84.1	90.0	91.2	61.8	76.5	109	52	46	45	42	58	28	21	.322	.309	.268	.12	.12	1.2	1.1	1.4	1.1
July	29.550	29.740	29.360	68.6	92.9	98.9	100.1	67.6	83.8	108	56	49	47	42	51	21	15	.354	.332	.280	T.	T.	.7	.9	.9	.8
August	29.531	29.730	29.350	64.7	87.6	93.6	95.1	63.1	79.1	103	55	46	45	39	52	23	16	.310	.300	.243	T.	T.	.5	.6	.4	.6
September	29.520	29.750	29.360	64.4	88.2	94.1	95.7	62.5	79.1	105	52	46	46	39	52	24	16	.312	.321	.243	.00	.00	.1	.2	.3	.2
October	29.613	29.800	29.400	53.0	72.5	73.9	77.1	51.4	64.2	92	41	46	46	43	79	40	36	.312	.313	.285	.52	.51	.9	1.7	2.2	1.8
November	29.750	30.060	29.270	44.2	56.5	57.2	60.6	41.5	51.0	67	34	40	42	41	86	61	58	.249	.273	.266	.62	.31	2.5	4.2	3.2	4.2
December	29.788	30.080	29.490	47.3	52.5	53.1	55.6	44.0	49.8	64	34	44	46	46	89	80	77	.294	.314	.310	2.20	.59	6.7	9.1	7.3	8.5
Year	29.651	30.090	29.070	52.7	69.2	72.6	74.8	50.8	62.8	109	24	43	42	40	72	44	39	.282	.279	.252	10.23	1.72	2.4	3.3	2.9	3.1

Annual meteorological summary for the year ending December 31, 1922—Continued.

FORT SMITH, ARK.

[H_b=457 ft.; h_a=79 ft.; h_r=72 ft.; h_a=94 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	8.7	E.	54	SW.	1	7	3	31	1	5	3	4	8	0	7	4	20	8	5	3	2	1	0	2	0	20	1	0
February	9.3	E.	44	NW.	1	7	2	24	5	2	6	4	6	0	5	9	14	8	7	2	2	0	0	0	0	9	1	0
March	11.2	E.	42	SW.	1	7	2	26	7	3	3	7	7	0	10	6	15	12	8	0	0	0	0	1	0	4	6	0
April	10.6	E.	60	SW.	4	2	5	26	5	10	4	5	3	0	10	3	17	12	10	0	0	0	0	0	0	0	3	0
May	7.2	E.	42	W.	1	4	7	21	3	4	13	3	6	1	8	8	15	17	12	0	0	1	0	0	0	0	11	0
June	5.9	E.	30	NW.	0	4	5	20	6	9	6	4	6	0	10	12	8	7	4	0	0	0	0	0	17	0	5	0
July	6.6	E.	53	SE.	1	8	2	22	4	9	12	4	0	1	8	13	10	4	3	0	0	0	1	0	20	0	6	0
August	6.1	E.	35	NW.	0	7	4	31	3	10	1	3	2	1	12	14	5	4	4	0	0	0	0	0	24	0	7	0
September	6.1	E.	27	SE.	0	11	9	27	3	5	3	1	1	0	23	6	1	2	2	0	0	0	0	0	14	0	2	0
October	6.5	E.	26	NW.	0	5	4	32	5	3	3	2	7	1	15	9	7	6	2	0	0	0	2	0	1	0	5	0
November	7.8	E.	48	W.	1	5	8	23	2	2	8	5	7	0	12	11	7	7	7	0	0	0	0	0	0	1	2	0
December	8.6	E.	34	NW.	0	4	6	31	0	4	7	3	7	0	9	10	12	9	8	0	0	1	0	0	0	10	5	0
Year	7.9	E.	60	SW.	10	71	57	314	44	66	69	45	60	4	129	105	131	96	72	5	4	3	3	3	76	44	54	0

FORT WAYNE, IND.

[H_b=856 ft.; h_1=113 ft.; h_r=107 ft.; h_a=124 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	10.5	SW.	42	SW.	1	1	11	8	7	4	15	14	2	0	12	8	11	8	6	10	6	0	2	18	0	30	0	0
February	11.5	SW.	43	SW.	2	5	3	6	3	7	10	9	13	0	2	9	17	9	7	14	4	0	0	9	0	23	0	0
March	11.4	E.	36	SW.	0	10	7	13	5	7	6	7	7	0	7	5	19	18	17	7	4	0	0	2	0	18	2	0
April	10.6	SW.	56	S.	4	6	9	10	9	4	12	6	4	0	5	9	16	14	10	2	1	1	0	0	0	1	5	0
May	7.4	E.	36	S.	0	3	3	23	9	8	4	6	6	0	10	9	12	12	9	0	0	0	0	0	0	0	11	0
June	7.7	SW.	27	SW.	0	6	13	10	2	4	15	4	6	0	8	16	6	7	7	0	0	1	0	0	2	0	7	0
July	7.9	SW.	55	SW.	1	11	5	9	2	11	11	6	7	0	8	15	8	10	8	0	0	0	0	0	0	0	6	0
August	6.7	E.	31	SW.	0	9	5	16	6	5	8	1	11	1	7	20	4	9	6	0	0	0	0	0	4	0	4	0
September	6.9	SW.	27	SW.	0	6	14	10	5	6	15	1	3	0	16	12	2	6	5	0	0	0	1	0	7	0	5	0
October	8.5	SW.	30	NW.	0	6	2	13	3	10	16	5	6	1	13	9	9	8	7	0	0	0	1	0	0	1	0	0
November	10.8	SW.	32	SW.	0	1	1	5	3	5	24	13	8	0	5	8	17	13	6	7	3	0	0	1	0	9	0	0
December	10.1	SW.	30	W.	0	3	7	8	8	7	14	12	3	0	6	7	18	11	10	6	4	0	2	11	0	27	0	0
Year	9.2	SW.	56	S.	8	67	80	131	62	78	150	84	76	2	99	127	139	125	98	46	22	2	6	41	13	109	40	0

FORT WORTH, TEX.

[H_b=670 ft.; h_a=106 ft.; h_r=51 ft.; h_a=114 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	9.1	E.	34	NW.	0	9	11	9	5	8	5	4	11	0	7	6	18	12	9	1	0	1	1	1	0	12	3	0
February	11.7	S.	34	S.	0	8	6	3	3	14	9	6	6	1	7	11	10	8	8	2	0	0	0	0	0	7	2	0
March	13.8	NW.	42	W.	1	3	4	3	13	10	6	8	15	0	11	10	10	7	5	1	0	0	0	1	0	4	4	0
April	10.0	S.	46	SE.	1	0	7	6	14	12	11	4	5	1	5	8	17	10	9	0	0	0	0	0	0	0	9	0
May	9.6	S.	41	S.	1	5	15	5	11	8	9	1	8	0	11	11	9	8	5	0	0	1	0	0	4	0	9	0
June	8.1	SE.	25	SE.	0	5	3	10	15	11	11	1	4	0	11	12	7	6	5	0	0	0	0	0	19	0	5	0
July	10.4	S.	34	W.	0	2	2	2	14	27	14	0	1	0	18	13	0	2	2	0	0	0	0	0	28	0	2	0
August	8.3	SE.	27	S.	0	0	4	12	21	10	12	0	2	1	12	17	2	4	4	0	0	0	0	0	25	0	6	0
September	7.3	SE.	33	NE.	0	8	8	9	21	6	4	1	1	2	19	9	2	3	3	0	0	0	0	0	17	0	2	0
October	7.4	SE.	32	NW.	0	5	6	6	12	7	6	7	12	1	16	10	5	7	6	0	0	0	0	0	1	0	2	0
November	9.0	SE.	31	SE.	0	9	5	10	10	6	2	4	14	0	7	13	10	6	5	0	0	0	2	0	0	0	2	0
December	8.9	S.	39	W.	0	7	0	5	12	12	8	5	13	0	14	6	11	3	0	2	0	0	1	0	0	7	0	0
Year	9.5	S.	46	SE.	3	61	71	80	151	131	97	41	92	6	138	126	101	76	61	6	0	2	4	2	94	30	46	0

FRESNO, CALIF.

[H_b=327 ft.; h_1=80 ft.; h_r=82 ft.; h_a=98 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
		*																										
January	5.2	NW.	29	NW.	0	2	3	11	10	2	5	2	24	3	12	8	11	7	5	1	0	0	5	0	0	9	0	0
February	6.2	NW.	29	SE.	0	3	4	14	8	4	2	2	16	3	5	10	13	11	8	0	0	1	2	0	0	2	1	0
March	6.2	NW.	29	NW.	0	5	6	7	8	0	3	1	25	7	10	13	8	8	8	1	0	0	1	0	0	6	0	0
April	8.4	NW.	35	NW.	0	4	2	5	2	0	1	2	43	1	24	5	1	1	1	0	0	0	0	0	0	0	0	0
May	8.4	NW.	34	NW.	0	1	4	5	1	0	0	2	47	2	24	5	2	4	3	0	0	0	0	0	9	0	1	0
June	9.1	NW.	30	NW.	0	1	0	1	1	0	1	2	50	4	26	3	1	1	1	0	0	0	0	0	14	0	1	0
July	8.2	NW.	24	NW.	0	1	3	0	0	0	1	6	48	3	28	3	0	0	0	0	0	0	0	0	31	0	1	0
August	8.6	NW.	27	NW.	0	0	0	0	0	1	1	3	54	3	29	1	1	0	0	0	0	0	0	0	25	0	1	0
September	6.7	NW.	20	NW.	0	2	1	0	4	2	0	0	48	3	30	0	0	0	0	0	0	0	0	0	24	0	0	0
October	6.1	NW.	26	NW.	0	1	2	6	8	2	2	4	30	7	24	4	3	2	1	0	0	0	0	0	1	0	2	0
November	4.6	NW.	29	SW.	0	2	4	15	4	4	0	1	24	6	17	3	10	5	4	0	0	0	8	0	0	0	0	0
December	4.9	NW	24	NW.	0	2	1	10	15	3	3	3	18	7	2	3	26	13	10	0	0	0	7	0	0	0	1	0
Year	6.9	NW.	35	NW.	0	24	30	74	61	18	19	28	427	49	231	58	76	52	41	2	0	1	23	0	104	11	8	0

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1922—Continued.

GALVESTON, TEX.

[ϕ=29° 18′ N.; λ=94° 50′ W.]

Month.	Pressure.			Temperature.											Moisture.											
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	30.079	30.420	29.600	50.1	52.3	52.5	57.1	46.9	52.0	72	35	47	47	48	89	84	86	0.340	0.340	0.347	4.84	1.92	7.8	7.3	7.5	7.7
February	30.037	30.570	29.690	57.6	62.2	60.2	65.5	54.3	59.9	75	40	55	57	56	90	84	86	.445	.484	.458	3.03	1.65	6.1	5.0	6.0	5.8
March	29.995	30.350	29.630	58.4	63.1	63.0	66.9	56.3	61.6	80	33	53	54	55	84	75	77	.436	.454	.461	2.69	1.05	5.3	5.0	4.8	5.3
April	29.936	30.430	29.630	69.6	73.6	72.1	75.9	67.4	71.6	82	58	65	66	65	85	78	80	.626	.657	.639	1.66	.96	5.7	5.5	6.4	6.0
May	29.860	30.010	29.670	75.0	79.8	77.7	82.4	72.2	77.3	90	62	72	73	72	89	80	82	.778	.816	.777	4.93	1.47	4.9	4.0	5.7	4.7
June	29.928	30.090	29.810	78.9	83.2	81.9	86.0	76.4	81.2	91	67	73	73	73	83	72	74	.812	.812	.801	8.96	3.46	4.5	4.6	5.4	5.1
July	30.002	30.170	29.880	80.3	84.2	82.4	86.4	78.0	82.2	89	69	74	74	74	82	71	76	.849	.831	.836	1.60	.44	4.1	4.8	3.5	4.4
August	29.918	30.090	29.807	79.8	85.0	83.1	87.7	78.5	83.1	92	71	74	74	75	84	70	76	.854	.833	.862	2.53	.92	4.1	4.4	4.4	4.4
September	29.938	30.100	29.806	77.3	82.4	81.0	84.7	75.7	80.2	91	70	72	72	72	84	71	75	.777	.780	.787	8.89	5.12	4.2	4.7	4.7	4.5
October	29.912	30.170	29.710	67.4	74.1	73.1	77.4	64.7	71.0	86	52	60	62	63	78	67	73	.541	.572	.603	4.78	2.30	2.7	2.7	2.9	2.9
November	30.051	30.230	29.830	62.4	67.1	66.5	70.7	60.5	65.6	79	48	58	60	59	86	78	78	.511	.539	.527	2.54	2.31	5.4	6.6	5.0	6.3
December	30.035	30.320	29.710	60.0	64.2	63.2	67.7	57.0	62.4	76	39	57	58	58	90	81	85	.494	.510	.516	2.56	1.41	4.8	5.4	5.0	5.5
Year	29.974	30.570	29.600	68.1	72.6	71.4	75.7	65.7	70.7	92	33	63	64	64	85	76	79	.622	.636	.634	49.01	5.12	5.0	5.0	5.1	5.2

GRAND HAVEN, MICH.

[ϕ=43° 05′ N.; λ=86° 13′ W.]

January	29.460	30.060	28.720	20.2	25.0	24.8	30.3	16.0	23.2	45	−3	16	18	18	82	71	72	0.091	0.099	0.102	1.39	0.70	7.1	6.2	5.5	6.5
February	29.374	30.000	28.670	23.8	27.4	26.6	33.3	20.3	26.8	55	7	19	21	21	79	76	77	.105	.120	.116	2.91	1.73	7.9	8.1	7.4	8.1
March	29.371	29.900	28.570	31.2	37.8	35.7	41.3	28.5	34.9	62	15	26	30	30	81	73	78	.144	.167	.166	4.26	1.35	5.9	6.0	6.8	6.1
April	29.343	29.810	28.370	41.3	47.7	46.0	53.0	36.3	44.6	71	28	35	36	38	78	67	74	.210	.222	.236	2.02	1.33	4.9	5.8	6.3	5.5
May	29.267	29.730	28.560	58.7	65.4	63.9	70.5	50.6	60.6	82	43	51	50	51	76	61	65	.381	.376	.385	2.10	.90	4.4	4.7	4.6	4.6
June	29.300	29.622	28.890	62.3	69.4	69.0	73.5	56.5	65.0	84	43	55	56	56	77	65	65	.435	.432	.459	1.85	1.09	4.7	3.7	5.1	4.0
July	29.328	29.649	28.905	65.5	71.2	71.0	75.1	59.7	67.4	89	48	59	60	59	80	69	67	.506	.528	.509	3.22	.95	6.1	5.9	5.1	5.1
August	29.322	29.580	28.860	65.0	72.5	71.3	76.6	59.1	67.8	87	47	58	60	59	79	65	66	.496	.524	.514	3.02	1.79	5.2	3.9	4.5	4.0
September	29.426	29.790	29.090	58.5	67.8	64.1	71.6	54.2	62.9	91	38	54	56	56	86	67	77	.442	.468	.476	4.66	1.55	4.0	3.9	3.6	3.8
October	29.308	29.710	28.880	48.6	56.8	53.1	59.4	43.7	51.6	76	28	42	44	44	79	62	73	.288	.303	.306	2.21	1.00	5.8	5.5	5.4	5.7
November	29.360	29.760	28.850	41.5	43.8	43.4	47.9	38.0	43.0	62	26	36	36	37	82	74	78	.224	.218	.231	3.63	1.09	9.0	9.6	9.1	9.2
December	29.379	29.860	28.870	27.5	29.2	28.3	33.8	22.3	28.0	52	8	24	24	23	84	81	81	.131	.134	.128	1.50	.41	8.8	9.1	7.9	8.5
Year	29.353	30.060	28.370	45.3	51.2	49.8	55.5	40.4	48.0	91	−3	40	41	41	80	69	73	.288	.302	.302	32.77	1.79	6.2	6.0	5.9	5.9

GRAND JUNCTION, COLO.

[ϕ=39° 04′ N.; λ=108° 34′ W.]

January	25.413	25.930	24.780	19.8	32.7	31.2	37.8	16.1	27.0	59	5	15	17	18	81	50	55	0.087	0.095	0.098	0.58	0.41	2.3	3.5	3.4	3.1
February	25.353	25.840	24.970	24.5	36.9	36.4	41.7	21.1	31.4	62	−7	20	22	24	82	56	61	.110	.123	.129	.62	.22	5.6	7.8	6.8	7.3
March	25.333	25.770	24.940	32.2	47.0	48.1	52.5	29.6	41.0	71	12	23	23	24	70	38	40	.124	.126	.129	.65	.42	4.6	5.1	6.4	5.5
April	25.291	25.840	24.820	38.7	55.1	54.8	60.0	35.9	48.0	77	22	28	28	28	66	37	40	.156	.156	.154	.45	.14	5.6	6.5	6.6	6.2
May	25.322	25.610	24.880	50.1	69.8	71.4	74.7	47.5	61.1	86	34	33	31	31	54	25	24	.190	.174	.175	.40	.40	3.5	3.9	5.3	4.2
June	25.365	25.610	25.090	62.2	83.8	85.4	89.1	59.3	74.2	100	44	38	40	40	43	22	22	.240	.259	.255	.09	.08	3.1	3.9	5.0	4.0
July	25.422	25.640	25.090	65.5	85.8	87.6	91.7	63.7	77.7	102	55	47	47	47	53	29	26	.326	.332	.326	.40	.25	3.8	3.9	4.6	4.2
August	25.436	25.590	25.220	65.7	83.6	84.0	89.6	64.5	77.0	96	59	53	54	54	65	38	39	.407	.422	.421	2.00	.70	3.9	5.0	5.7	5.1
September	25.439	25.620	25.229	57.6	77.8	79.7	83.9	56.5	70.2	91	51	40	43	43	54	31	29	.259	.284	.284	.38	.24	2.6	3.2	3.5	3.2
October	25.399	25.730	24.920	43.2	63.8	62.2	69.4	40.8	55.1	86	28	29	32	33	57	34	36	.157	.184	.189	.25	.14	2.1	3.3	2.9	2.7
November	25.420	25.800	24.810	31.3	46.2	43.7	50.9	27.9	39.4	62	20	24	26	27	73	46	53	.127	.140	.147	.38	.25	3.0	4.9	4.4	4.5
December	25.419	25.820	24.980	28.1	37.9	37.4	43.2	25.1	34.2	52	16	25	28	28	88	66	67	.134	.150	.149	.71	.38	4.4	6.5	5.8	5.9
Year	25.384	25.930	24.780	43.2	60.0	60.2	65.4	40.7	53.0	102	−7	31	33	33	66	39	41	.193	.203	.205	6.91	.70	3.7	4.8	5.0	4.7

GRAND RAPIDS, MICH.

[ϕ=42° 58′ N.; λ=85° 40′ W.]

January	29.386	30.000	28.660	19.5	25.7	24.6	30.9	16.4	23.6	50	2	15	18	17	81	71	72	0.087	0.102	0.100	0.71	0.40	6.8	6.9	5.4	6.7
February	29.300	29.920	28.612	24.1	28.5	27.4	33.9	21.1	27.5	55	7	20	21	20	81	72	72	.108	.118	.112	2.25	1.27	7.8	8.4	8.2	7.9
March	29.300	29.860	28.440	31.7	40.6	38.1	44.3	29.1	36.7	72	16	26	28	28	77	62	67	.140	.158	.159	3.18	1.06	6.2	6.1	7.2	6.5
April	29.270	29.720	28.320	43.3	53.4	50.5	57.9	38.0	48.0	74	29	35	35	37	72	50	61	.215	.215	.232	4.50	2.94	5.5	5.7	6.3	6.0
May	29.200	29.611	28.461	59.8	71.8	68.0	74.6	53.4	64.0	89	46	50	50	50	71	48	55	.368	.371	.376	2.64	1.44	5.2	5.9	5.4	5.9
June	29.228	29.528	28.810	64.7	76.3	74.2	80.3	58.9	69.6	92	44	53	53	55	68	46	52	.422	.409	.443	3.16	.98	4.9	4.2	5.9	5.0
July	29.259	29.590	28.870	67.5	76.7	75.1	80.8	61.5	71.2	89	49	57	56	56	70	50	53	.477	.459	.459	4.05	2.93	6.6	6.4	4.6	5.9
August	29.246	29.510	28.790	65.6	78.1	74.6	81.8	60.5	71.2	93	50	57	56	57	74	47	55	.471	.457	.475	2.96	1.08	5.2	5.7	4.8	5.5
September	29.351	29.708	29.060	58.9	72.6	66.9	75.3	55.0	65.2	95	40	53	53	56	81	52	69	.423	.430	.473	5.04	2.24	4.3	4.4	3.7	4.7
October	29.237	29.650	28.790	47.5	59.2	53.8	61.6	44.4	53.0	85	28	41	41	43	79	54	67	.272	.273	.289	2.87	1.20	6.2	6.3	4.8	5.7
November	29.287	29.700	28.760	40.3	44.3	42.6	47.7	37.1	42.4	62	25	34	34	35	78	66	74	.207	.201	.214	2.39	.68	9.0	8.8	8.3	9.0
December	29.304	29.820	28.770	26.1	29.5	27.6	33.8	21.6	27.7	59	6	21	22	21	81	72	76	.119	.120	.117	1.40	.25	9.2	8.4	7.4	8.0
Year	29.281	30.000	28.320	45.8	54.7	52.0	58.6	41.4	50.0	95	2	38	39	40	76	58	64	.276	.276	.287	35.15	2.94	6.4	6.4	6.0	6.4

Annual meteorological summary for the year ending December 31, 1922—Continued.

GALVESTON, TEX.

[H_b=54 ft.; h_t=106 ft.; h_r=98 ft.; h_a=114 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.10 inch and over.	T. or more.	Snow. 0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	13.3	N.	42	W.	1	24	7	4	6	3	3	4	11	0	6	2	23	18	11	0	0	0	1	0	0	0	2	0
February	12.3	SE.	42	NW.	1	7	9	9	13	7	1	1	9	0	8	8	12	7	6	0	0	0	4	0	0	0	3	0
March	13.3	E.	49	SE.	2	6	1	18	16	2	2	4	12	1	10	8	13	8	6	0	0	0	1	0	0	0	3	0
April	13.9	SE.	35	SE.	0	6	5	18	25	3	0	1	2	0	4	16	10	6	4	0	0	0	2	0	0	0	2	0
May	11.7	SE.	48	NW.	2	7	3	1	31	5	3	2	10	0	8	21	2	11	9	0	0	0	0	0	1	0	13	0
June	9.2	SE.	32	SE.	0	4	3	4	25	12	3	6	3	0	9	16	5	10	9	0	0	0	0	0	3	0	8	0
July	10.0	S.	33	N.	0	5	1	1	18	22	10	4	1	0	14	13	4	10	9	0	0	0	0	0	0	0	4	0
August	7.9	SE.	27	E.	0	3	5	9	23	9	7	3	3	0	11	17	3	6	6	0	0	0	0	0	4	0	5	0
September	9.3	E.	29	SE.	0	11	13	11	15	4	0	2	4	0	13	12	5	10	8	0	0	0	0	0	1	0	4	0
October	10.0	N.	38	N.	0	21	2	11	10	5	2	3	8	0	22	5	4	10	8	0	0	0	1	0	0	0	5	0
November	11.4	N.	26	N.	0	14	10	11	8	2	2	6	7	0	5	12	13	5	4	0	0	1	2	0	0	0	1	0
December	10.6	SE.	31	NW.	0	13	3	8	20	6	3	3	4	2	10	12	9	9	8	0	0	0	2	0	0	0	4	0
Year	11.1	SE.	49	SE.	6	121	62	105	210	80	36	39	74	3	120	142	103	110	88	0	0	1	13	0	9	0	54	0

GRAND HAVEN, MICH.

[H_b=632 ft.; h_t=54 ft.; h_r=49 ft.; h_a=59 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.10 inch and over.	T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	13.4	W.	60	W.	5	5	11	10	6	3	8	15	4	0	6	10	15	16	7	17	15	0	1	18	0	31	0	0
February	14.0	W.	50	W.	3	9	2	6	8	4	9	11	7	0	1	9	18	14	10	17	10	1	1	13	0	28	3	0
March	13.1	E.	40	S.	1	12	9	11	7	8	3	5	7	0	8	8	15	12	10	7	5	0	2	4	0	24	0	0
April	12.2	S.	63	W.	4	11	3	5	10	10	7	6	8	0	9	11	10	9	6	4	2	0	1	0	0	8	3	0
May	8.4	E.	39	W.	0	4	6	13	9	10	8	6	6	0	11	11	9	11	10	0	0	0	0	6	0	0	6	0
June	8.9	W.	34	SW.	0	7	4	3	5	14	5	11	11	0	17	8	5	6	4	0	0	0	0	0	0	0	5	0
July	8.7	W.	33	S.	0	5	3	6	3	12	3	15	15	0	16	13	8	8	7	0	0	0	1	0	0	0	6	1
August	7.9	W.	36	NW.	0	9	3	4	4	12	7	12	11	0	17	9	5	6	5	0	0	0	0	0	0	0	5	0
September	7.9	S.	30	N.	0	11	6	8	3	14	8	3	7	0	19	4	7	8	7	0	0	0	0	0	1	0	6	0
October	11.7	S.	52	W.	1	9	3	9	5	10	6	6	14	0	8	11	12	7	6	0	0	0	0	0	0	5	0	0
November	15.4	SW.	39	S.	0	9	2	4	5	8	12	10	10	0	0	5	25	18	15	6	5	0	0	1	0	7	0	0
December	14.8	W.	52	W.	4	6	4	6	9	8	7	15	7	0	3	2	26	12	10	16	8	0	0	14	0	27	0	0
Year	11.4	W.	63	W.	18	97	56	85	74	113	83	115	107	0	109	101	155	127	97	67	45	1	6	50	1	130	34	1

GRAND JUNCTION, COLO.

[H_b=4,602 ft.; h_t=60 ft.; h_r=52 ft.; h_a=68 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.10 inch and over.	T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	5.2	SE.	30	S.	0	6	5	5	16	6	2	12	10	0	19	6	6	4	4	6	4	0	0	5	0	30	0	0
February	4.8	NW.	32	SW.	0	9	4	5	7	7	2	9	13	0	2	9	17	11	8	13	9	0	0	8	0	25	1	0
March	7.0	SE.	34	SW.	0	6	3	6	15	9	2	2	19	0	11	8	12	8	4	5	3	0	1	1	0	19	0	0
April	7.0	SE.	38	S.	0	7	2	6	18	6	5	5	11	0	6	10	14	11	4	8	2	0	0	0	0	11	3	0
May	6.7	SE.	42	S.	1	9	3	4	16	4	3	5	16	2	16	8	7	2	1	1	0	0	0	0	0	0	1	0
June	6.1	SE.	38	SE.	0	16	1	5	17	7	0	2	11	1	13	14	3	3	1	0	0	0	0	0	16	0	6	0
July	6.1	SE.	38	SW.	0	10	3	5	22	4	5	3	10	0	13	13	5	7	3	0	0	0	0	0	21	0	12	0
August	5.8	SE.	37	W.	0	8	3	6	26	8	0	2	9	0	10	15	6	13	11	0	0	0	0	0	19	0	19	0
September	5.4	SE.	30	S.	0	6	4	9	14	12	1	4	9	1	16	11	3	5	2	0	0	0	0	0	2	0	8	0
October	5.0	SE.	32	SW.	0	10	1	7	18	3	3	5	15	0	18	9	4	4	3	1	1	0	0	0	0	2	2	0
November	5.0	SE.	35	S.	0	5	8	8	12	4	5	5	13	0	13	10	7	5	3	6	3	0	0	0	0	25	0	0
December	4.6	SE.	28	W	0	6	6	11	10	5	6	6	11	1	8	7	16	10	4	9	6	0	2	0	0	26	0	0
Year	5.7	SE.	42	S.	1	98	43	77	191	75	34	60	147	5	145	120	100	83	48	49	28	0	3	14	58	138	52	0

GRAND RAPIDS, MICH.

[H_b=707 ft.; h_t=70 ft.; h_r=70 ft.; h_a=87 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.10 inch and over.	T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	6.9	W.	32	W.	0	3	4	12	9	7	8	14	5	0	6	9	16	10	4	17	9	0	0	18	0	30	0	0
February	7.0	W.	34	W.	0	1	2	5	8	9	8	13	10	0	2	7	19	11	7	15	7	0	0	12	0	27	1	0
March	7.3	E.	24	NW.	0	3	9	10	11	3	5	9	11	1	8	7	16	13	11	7	4	0	1	4	0	21	0	0
April	7.0	W.	34	W.	0	1	5	10	10	5	9	12	8	0	9	7	14	9	6	2	1	0	0	0	0	6	2	0
May	5.1	E.	26	W.	0	1	5	16	10	7	4	11	6	2	10	7	14	12	9	0	0	0	0	0	0	0	6	0
June	4.9	W.	22	W.	0	2	5	9	9	6	6	13	10	0	12	10	8	7	7	0	0	0	0	0	1	0	6	0
July	4.9	W.	22	NW.	0	0	6	8	5	9	4	19	11	0	6	16	9	8	7	0	0	0	0	0	0	0	3	0
August	4.3	W.	31	W.	0	3	10	8	6	5	6	13	9	2	6	15	10	11	8	0	0	0	0	0	5	0	8	0
September	3.9	E.	17	NW.	0	1	12	10	3	9	5	11	1	8	13	10	7	8	6	0	0	0	0	0	3	0	4	0
October	5.7	W.	25	W.	0	1	6	11	8	14	2	9	10	1	7	12	12	9	6	1	0	1	0	0	0	1	0	0
November	7.1	S.	27	W.	0	1	1	5	8	13	10	11	10	1	1	3	26	16	11	7	4	0	0	2	0	9	0	0
December	7.2	W.	28	W.	0	3	7	6	9	14	3	15	5	0	3	7	21	13	11	17	8	0	0	14	0	27	0	0
Year	5.9	W.	34	W.	0	20	72	110	96	101	70	150	96	15	83	110	172	127	93	66	33	1	1	50	9	121	30	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

GREEN BAY, WIS.

[ϕ=44° 31′ N.; λ=88° 00′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.466	30.140	28.740	8.9	15.4	16.3	22.1	3.9	13.0	37	−20	6	10	12	84	77	79	0.059	0.072	0.078	0.88	0.69	5.8	5.3	3.8	6.3
February	29.378	30.070	28.520	12.1	19.1	18.1	24.7	6.4	15.6	42	−12	8	13	13	84	75	80	.070	.082	.083	4.54	2.23	6.0	5.4	4.5	5.9
March	29.395	29.970	28.550	26.3	34.0	32.7	37.3	24.8	31.0	53	2	22	25	26	82	69	74	.121	.140	.138	1.74	.69	5.9	6.3	6.2	6.5
April	29.351	29.844	28.360	38.7	46.7	44.9	50.8	35.0	42.9	71	23	33	35	36	80	66	71	.201	.215	.214	4.62	1.20	6.0	5.7	7.1	6.8
May	29.279	29.700	28.710	57.1	67.1	65.6	70.8	52.9	61.8	88	47	50	50	51	77	57	60	.363	.377	.380	1.79	.83	5.2	6.1	4.5	5.8
June	29.303	29.702	28.870	61.6	72.2	70.6	75.7	57.4	66.6	91	43	54	56	57	77	58	64	.427	.455	.480	4.88	3.70	5.3	5.9	5.5	6.4
July	29.318	29.650	28.820	63.6	73.8	71.7	77.1	59.2	68.2	84	50	57	57	58	79	58	63	.469	.475	.493	5.88	1.63	5.4	6.2	4.6	5.8
August	29.322	29.537	28.949	63.0	73.9	71.9	78.1	60.0	69.0	92	47	58	58	61	83	60	68	.488	.499	.541	4.10	2.48	4.1	4.7	5.1	5.4
September	29.422	29.827	29.030	56.5	69.1	64.6	71.8	54.3	63.0	90	39	52	54	55	86	59	71	.407	.436	.448	2.74	1.45	4.6	5.3	4.4	5.5
October	29.311	29.721	28.800	44.1	55.3	51.0	58.5	41.6	50.0	84	25	39	40	40	82	56	68	.252	.262	.265	.47	.14	5.5	4.7	3.6	6.0
November	29.339	29.840	28.810	37.7	41.7	40.7	45.1	34.6	39.8	59	22	33	32	34	81	70	76	.192	.192	.204	2.25	.59	8.9	8.2	7.3	8.5
December	29.369	29.900	28.830	17.4	21.8	21.7	26.7	12.4	19.6	43	−11	13	14	16	82	71	76	.088	.090	.096	.59	.17	6.8	6.1	6.0	7.1
Year	29.354	30.140	28.360	40.6	49.2	47.5	53.2	36.9	45.0	92	−20	35	37	38	81	65	71	.261	.275	.285	34.48	3.70	5.8	5.8	5.2	6.3

GREENVILLE, S. C.

[ϕ=34° 50′ N.; λ=82° 24′ W.]

January	29.051	29.420	28.155	37.4	44.4	42.3	48.4	35.3	41.8	66	21	32	35	35	81	71	75	0.197	0.224	0.219	5.32	1.33	6.6	6.4	5.6	6.7
February	29.016	29.400	28.570	44.1	52.1	50.2	57.1	41.0	49.0	73	20	39	42	42	84	69	75	.261	.281	.285	7.21	2.03	7.3	6.2	6.5	6.8
March	28.994	29.360	28.460	47.8	56.5	54.9	62.0	44.1	53.0	78	30	41	42	42	78	61	64	.278	.281	.287	5.95	1.95	5.4	5.5	4.5	5.6
April	28.998	29.320	28.490	56.7	65.5	63.9	71.1	52.3	61.7	85	40	48	47	49	73	54	62	.353	.344	.368	4.97	2.56	5.6	5.1	4.9	5.2
May	28.890	29.290	28.370	64.9	73.3	70.2	77.5	59.7	68.6	85	49	57	56	58	76	57	68	.472	.456	.496	6.28	2.55	5.2	5.6	6.5	6.0
June	28.919	29.140	28.710	72.4	82.4	77.1	85.9	66.9	76.4	92	60	65	64	65	79	54	67	.624	.593	.616	6.59	3.14	3.8	4.3	6.1	4.9
July	28.973	29.170	28.750	73.5	82.7	77.5	86.3	68.4	77.4	92	61	68	68	69	85	62	76	.698	.681	.712	5.21	1.13	4.8	4.8	5.5	5.4
August	28.931	29.170	28.700	69.6	79.4	75.6	83.3	66.1	74.7	93	58	63	62	64	81	58	68	.584	.565	.591	.95	.31	6.2	5.1	6.3	5.8
September	29.002	29.210	28.790	67.9	79.1	75.4	83.4	64.2	73.8	92	54	60	58	60	76	50	59	.527	.494	.521	.72	.24	3.3	3.8	2.9	3.4
October	28.936	29.270	28.590	56.2	68.3	64.2	71.8	53.1	62.4	84	42	48	50	49	77	55	61	.358	.374	.365	4.77	2.92	3.5	3.1	3.1	3.5
November	29.047	29.380	28.430	46.5	58.0	53.8	61.6	43.3	52.4	76	26	38	40	41	74	53	64	.248	.266	.283	.48	.20	3.8	2.9	2.9	3.2
December	29.017	29.360	28.440	43.2	49.4	49.1	54.9	40.8	47.8	68	27	39	41	42	84	77	80	.252	.279	.290	6.80	2.34	6.2	7.2	5.8	6.9
Year	28.981	29.420	28.155	56.7	65.9	62.8	70.3	52.9	61.6	93	20	50	50	51	79	60	68	.404	.403	.419	55.25	3.14	5.1	5.0	5.0	5.3

GROESBECK, TEX.

[ϕ=31° 30′ N.; λ=96° 28′ W.]

January	29.657	29.980	29.140	39.8	47.6	....	52.1	37.5	44.8	75	24	35	36	....	84	67	....	0.223	0.230	....	3.18	1.02	7.4	7.8	....	7.8
February	29.586	30.094	29.190	48.4	56.7	....	63.0	45.2	54.1	82	25	44	44	....	84	65	....	.314	.309	....	3.35	1.43	6.9	7.2	....	7.0
March	29.540	29.940	29.127	48.5	61.3	....	67.7	46.0	56.8	82	20	43	43	....	83	55	....	.318	.311	....	5.41	3.71	5.5	4.9	....	4.8
April	29.478	29.995	29.037	61.1	70.7	....	76.4	58.0	67.2	86	46	58	58	....	88	66	....	.492	.498	....	8.24	2.93	7.3	7.0	....	6.9
May	29.408	29.567	29.160	68.5	79.4	....	83.3	66.2	74.8	91	56	66	66	....	91	66	....	.637	.657	....	6.61	2.59	5.4	5.3	....	4.8
June	29.486	29.640	29.310	73.2	84.7	....	88.8	70.4	79.6	95	62	71	68	....	92	58	....	.749	.685	....	5.42	2.63	4.8	5.1	....	4.8
July	29.537	29.730	29.340	75.1	89.3	....	93.9	72.8	83.4	100	64	71	68	....	88	50	....	.761	.679	....	.80	.72	4.1	2.7	....	3.8
August	29.482	29.599	29.280	74.6	90.9	....	95.8	72.8	84.3	102	64	70	66	....	85	45	....	.728	.642	....	1.09	.80	3.8	3.0	....	3.5
September	29.523	29.670	29.300	68.2	85.8	....	89.9	66.9	78.4	98	56	65	63	....	88	49	....	.623	.590	....	1.30	.70	2.6	3.3	....	3.0
October	29.500	29.820	29.230	58.6	75.8	....	80.9	54.6	67.8	91	41	52	50	....	84	45	....	.403	.382	....	1.42	.60	3.6	2.8	....	2.9
November	29.615	29.870	29.350	51.1	64.2	....	68.5	49.0	58.8	85	36	47	48	....	86	59	....	.345	.361	....	2.02	.70	6.6	5.1	....	6.3
December	29.585	29.940	29.160	48.7	60.7	....	65.6	44.4	55.0	81	25	44	44	....	84	57	....	.337	.329	....	.26	.17	5.9	5.5	....	5.3
Year	29.533	30.094	29.037	59.5	72.3	....	77.2	57.0	67.1	102	20	56	54	....	86	57	....	.494	.473	....	39.10	3.71	5.3	5.0	....	5.1

HANNIBAL, MO.

[ϕ=39° 41′ N.; λ=91° 20′ W.]

January	29.626	30.190	28.920	21.5	29.9	....	35.9	18.3	27.1	57	1	15	18	....	74	59	....	0.094	0.107	....	1.56	1.25	4.7	5.2	....	5.1
February	29.542	30.180	28.950	27.7	35.8	....	42.8	23.1	33.0	74	4	21	21	....	73	53	....	.121	.124	....	1.18	.36	4.8	4.8	....	4.6
March	29.434	29.950	28.880	39.2	46.3	....	51.7	35.7	43.7	75	15	34	35	....	81	65	....	.211	.215	....	6.25	2.34	7.0	7.2	....	6.8
April	29.418	29.860	28.540	49.7	58.3	....	64.0	46.2	55.1	83	33	44	45	....	80	64	....	.297	.321	....	5.45	1.06	5.1	5.8	....	5.6
May	29.356	29.680	28.920	61.4	72.7	....	76.5	58.3	67.4	87	48	54	54	....	79	54	....	.438	.443	....	2.44	.84	4.3	6.0	....	5.0
June	29.416	29.670	29.130	69.7	81.8	....	86.5	65.4	76.0	96	53	60	59	....	72	48	....	.527	.514	....	.96	.58	2.9	5.8	....	4.1
July	29.441	29.704	29.150	70.1	81.3	....	86.1	65.5	75.8	96	54	62	60	....	76	49	....	.563	.533	....	2.26	.92	5.0	5.8	....	4.8
August	29.417	29.600	29.080	69.1	82.0	....	86.4	65.5	76.0	100	51	62	60	....	79	49	....	.565	.527	....	2.12	.95	4.0	4.0	....	4.0
September	29.514	29.810	29.200	62.2	77.1	....	80.9	59.4	70.2	99	43	56	56	....	82	52	....	.478	.482	....	3.54	2.15	3.2	3.1	....	2.9
October	29.446	29.800	29.110	49.3	66.0	....	70.7	47.5	59.1	90	33	43	43	....	79	46	....	.291	.296	....	1.83	.88	3.4	3.3	....	3.3
November	29.518	29.850	28.940	41.3	49.1	....	53.4	38.6	46.0	68	24	35	37	....	78	65	....	.216	.241	....	3.36	1.16	5.1	5.1	....	4.9
December	29.532	30.100	29.000	26.8	35.2	....	41.9	22.7	32.3	63	2	21	24	....	76	61	....	.119	.140	....	.38	.18	5.0	5.5	....	5.5
Year	29.472	30.190	28.540	49.0	59.7	....	64.7	45.5	55.1	100	1	42	43	....	77	55	....	.326	.329	....	31.33	2.34	4.5	5.1	....	4.7

Annual meteorological summary for the year ending December 31, 1922—Continued.

GREEN BAY, WIS.

[H_b=617 ft.; h_t=109 ft.; h_r=101 ft.; h_a=144 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	11.8	SW.	48	W.	3	9	6	3	1	11	22	7	3	0	7	9	15	5	3	6	5	0	1	25	0	31	0	0
February	12.3	SW.	54	SW.	3	3	7	0	5	12	17	8	4	0	10	6	12	11	8	11	10	0	1	20	0	28	3	0
March	12.3	S.	38	S.	0	10	14	2	9	10	8	4	5	0	6	12	13	6	6	7	4	0	1	10	0	27	1	0
April	12.1	S.	54	NW.	5	9	10	4	10	10	5	6	6	0	6	11	13	15	13	5	3	1	0	0	0	8	6	1
May	10.3	SE.	36	W.	0	7	11	5	17	11	3	4	4	0	9	12	10	10	8	0	0	0	0	0	0	0	3	0
June	9.7	S.	39	W.	0	3	4	4	9	21	9	8	2	0	4	15	11	11	5	0	0	0	1	0	1	0	7	0
July	9.5	S.	64	NW.	2	6	3	2	13	13	8	13	4	0	7	16	8	13	10	0	0	0	0	0	0	0	5	0
August	8.4	S.	62	W.	2	5	8	5	12	13	8	3	8	0	10	14	7	8	8	0	0	0	0	0	4	0	5	0
September	9.1	S.	50	SW.	2	2	6	6	8	21	6	2	9	0	11	10	9	11	8	0	0	1	1	0	1	0	3	0
October	11.8	S.	36	S.	0	4	11	0	4	19	8	7	9	0	10	8	13	6	4	1	0	0	0	0	0	4	0	0
November	12.9	S.	46	S.	1	3	3	2	7	13	15	7	10	0	1	6	23	12	9	4	1	0	1	4	0	12	0	0
December	12.7	S.	46	W.	4	7	4	3	6	13	17	8	4	0	9	4	18	10	6	14	8	0	1	17	0	31	0	0
Year	11.1	S.	64	NW.	22	68	87	36	101	167	126	77	68	0	90	123	152	118	88	48	31	2	7	76	6	141	33	1

GREENVILLE, S. C.

[H_b=1,039 ft.; h_t=113 ft.; h_r=102 ft.; h_a=122 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	9.6	NE.	32	SW.	0	4	19	11	3	1	15	6	1	2	6	9	16	15	11	5	3	0	2	1	0	12	0	0
February	9.9	SW.	48	W.	1	5	16	6	0	7	10	9	2	1	7	6	15	13	12	0	0	0	1	0	0	7	0	0
March	9.9	SW.	48	W.	1	4	14	4	2	11	10	13	4	0	10	8	13	15	14	0	0	0	1	0	0	3	2	1
April	10.7	SW.	39	SW.	0	3	13	7	3	9	17	5	3	0	10	11	9	10	8	0	0	0	0	0	0	0	2	0
May	8.1	NE.	34	W.	0	6	18	11	3	6	6	9	2	1	7	12	12	13	11	0	0	1	0	0	0	0	10	0
June	6.6	W.	46	W.	1	3	10	7	4	7	6	15	7	1	9	15	6	12	9	0	0	0	1	0	3	0	13	0
July	6.4	SW.	37	NW.	0	4	10	8	3	6	11	12	5	3	6	19	6	15	11	0	0	0	1	0	9	0	16	0
August	7.1	NE.	28	NE.	0	4	22	5	4	4	4	13	6	0	9	10	12	11	6	0	0	0	1	0	3	0	6	0
September	7.0	NE.	24	N.	0	2	27	11	5	0	4	3	7	1	18	9	3	5	4	0	0	0	1	0	4	0	6	0
October	7.5	NE.	30	E.	0	3	27	5	5	5	6	6	4	1	19	5	7	7	6	0	0	0	1	0	0	0	2	0
November	7.5	NE.	26	NE.	0	8	18	6	1	3	10	10	3	1	19	6	5	6	4	1	0	0	1	0	0	3	0	0
December	8.6	NE.	32	SW.	0	4	19	7	2	4	13	11	2	0	7	7	17	18	16	1	0	0	4	0	0	3	2	0
Year	8.2	NE.	48	W.	3	50	213	88	35	63	112	112	46	11	127	117	121	140	112	7	3	1	14	1	19	28	59	1

GROESBECK, TEX.

[H_b=461 ft.; h_t=11 ft.; h_r=3 ft.; h_a=56 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	11.8	N.	40	S.	1	11	6	2	3	3	2	2	2	0	4	5	22	15	12	1	0	0	0	1	0	8	1	0
February	14.0	N.	50	S.	2	5	3	2	3	3	7	3	2	0	4	10	14	9	8	0	0	0	1	0	0	3	5	0
March	14.2	SE.	52	NW.	3	2	1	1	12	5	2	2	6	0	12	9	10	7	5	1	0	0	0	1	0	4	5	0
April	12.9	S.	65	W.	3	3	3	4	7	7	3	2	1	0	5	5	20	11	10	0	0	1	0	0	0	0	7	0
May	10.0	SE.	45	W.	1	4	7	1	4	5	6	1	3	0	11	14	6	12	10	0	0	1	0	0	1	0	14	0
June	7.2	SE.	29	SW.	0	4	2	5	6	7	6	0	0	0	12	9	9	7	7	0	0	0	0	0	14	0	9	0
July	10.1	S.	39	NE.	0	0	1	2	2	16	9	1	0	0	15	14	2	4	2	0	0	0	0	0	28	0	4	0
August	7.3	SE.	50	N.	1	0	4	7	4	9	6	0	0	1	18	12	1	5	4	0	0	0	0	0	28	0	5	0
September	6.7	E.	52	E.	1	4	7	6	7	3	1	1	0	1	16	11	3	5	3	0	0	0	0	0	18	0	6	0
October	7.7	N.	32	NW.	0	10	3	3	5	4	2	2	1	1	21	5	5	9	5	0	0	0	1	0	3	0	2	0
November	9.9	N.	34	S.	0	8	7	2	7	1	3	1	1	0	6	10	14	8	6	0	0	0	1	0	0	0	4	0
December	11.0	S.	35	NW.	0	6	3	2	2	9	4	1	4	0	10	11	10	4	3	0	0	0	2	0	0	4	1	0
Year	10.3	S.	65	W.	12	57	47	37	62	72	51	16	20	3	134	115	116	96	75	2	0	2	5	2	92	19	63	0

HANNIBAL, MO.

[H_b=534 ft.; h_t=74 ft.; h_r=68 ft.; h_a=109 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	8.8	SW.	33	SW.	0	2	6	4	1	2	9	2	5	0	11	9	11	6	4	7	4	0	0	13	0	30	1	0
February	11.3	NW.	38	S.	0	4	4	2	0	4	6	4	4	0	9	13	6	6	6	6	2	0	1	7	0	23	1	0
March	11.0	NW.	44	E.	1	4	4	4	2	2	10	1	4	0	8	5	18	12	11	6	3	1	1	2	0	11	3	0
April	10.3	SW.	40	S.	1	5	4	3	3	5	8	2	0	0	11	5	14	13	11	0	0	2	2	0	0	0	7	0
May	8.0	SW.	27	SW.	0	1	5	4	2	3	10	2	4	0	10	14	7	17	11	0	0	0	1	0	0	0	9	0
June	7.1	SW.	37	NW.	0	5	2	2	1	8	14	0	3	0	18	14	3	7	4	0	0	1	0	0	8	0	4	0
July	7.5	SW.	36	SW.	0	7	3	2	2	1	9	5	2	0	11	12	8	9	6	0	0	0	0	0	10	0	5	0
August	6.5	SW.	30	SW.	0	2	4	3	2	1	13	1	4	1	16	9	6	7	6	0	0	0	0	0	8	0	7	0
September	6.7	SW.	38	SW.	0	3	6	2	3	3	9	1	3	0	20	2	8	5	5	0	0	0	2	0	6	0	4	0
October	7.1	SW.	31	NW.	0	4	0	1	2	1	15	1	5	2	21	3	7	5	5	0	0	0	1	0	1	0	1	0
November	9.6	SW.	31	S.	0	2	1	4	1	3	13	3	3	0	12	10	8	10	9	0	0	0	2	0	0	9	2	0
December	8.9	NW.	31	N.	0	4	5	6	2	2	6	1	5	0	12	8	11	6	4	3	2	0	2	7	0	25	0	0
Year	8.6	SW.	44	E.	2	43	44	37	21	30	122	23	42	3	154	104	107	103	82	22	11	4	12	29	33	98	44	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

HARRISBURG, PA.

[ϕ=40° 16′ N.; λ=76° 52′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.			Cloudiness.		
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.792	30.278	28.620	23.4	28.8	28.5	33.7	20.1	26.9	52	4	15	17	17	70	59	62	0.093	0.097	0.100	2.49	1.01	5.5	5.5	4.1	5.2
February	29.736	30.192	29.020	29.9	35.7	35.7	41.5	27.1	34.3	69	4	24	25	25	76	66	64	.133	.143	.142	2.29	.98	6.5	5.3	5.3	6.1
March	29.712	30.272	29.000	37.4	44.2	43.8	49.1	34.4	41.8	75	19	28	29	32	69	58	64	.166	.178	.192	3.21	.67	6.6	6.6	5.3	6.4
April	29.685	30.102	28.800	48.4	54.8	55.1	60.7	44.5	52.6	86	31	36	34	36	62	49	52	.228	.222	.240	1.43	.80	5.8	6.0	5.4	5.9
May	29.603	30.070	28.980	60.5	69.4	68.3	74.7	55.2	65.0	88	41	49	49	51	68	52	57	.363	.364	.389	3.72	1.63	5.2	5.5	4.7	5.3
June	29.586	29.781	29.170	68.8	76.3	74.1	80.8	63.6	72.2	89	54	59	58	61	72	57	66	.510	.510	.552	2.91	1.05	6.6	6.8	6.9	7.0
July	29.645	29.830	29.360	70.5	78.6	75.0	83.4	65.9	74.6	92	58	62	61	63	75	57	68	.567	.551	.585	3.91	1.64	6.1	6.7	5.8	6.3
August	29.617	29.929	29.280	66.7	75.7	72.7	80.3	62.6	71.4	94	55	59	58	59	77	56	65	.514	.500	.521	1.26	.65	5.1	5.9	5.1	5.6
September	29.739	30.090	29.380	62.4	73.7	70.6	78.9	58.9	68.9	95	41	56	54	56	79	52	62	.463	.441	.476	.85	.82	4.8	4.3	2.2	3.9
October	29.631	30.060	29.180	51.6	62.6	59.5	67.3	48.1	57.7	89	33	42	42	45	72	48	60	.299	.295	.327	3.16	1.74	4.1	4.8	3.2	4.3
November	29.694	30.090	29.110	41.4	48.6	46.4	51.8	38.5	45.2	66	30	32	32	35	70	54	64	.190	.189	.211	.56	.27	5.3	6.1	5.2	6.1
December	29.759	30.230	29.080	29.5	34.0	34.3	39.5	26.3	32.9	59	13	24	25	26	78	70	71	.130	.138	.144	2.41	.68	6.7	7.3	4.5	6.6
Year	29.683	30.278	28.620	49.2	56.9	55.3	61.8	45.4	53.6	95	4	40	40	42	72	56	63	.305	.302	.323	28.20	1.74	5.7	5.9	4.8	5.7

HARTFORD, CONN.

[ϕ=41° 46′ N.; λ=72° 40′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.981	30.480	28.700	20.1	27.1	26.2	32.7	17.0	24.8	49	−2	11	14	15	68	56	62	0.079	0.089	0.095	2.19	1.62	4.5	4.7	2.8	5.2
February	29.928	30.420	29.180	26.6	32.3	31.6	38.5	22.6	30.6	56	−6	19	20	22	74	61	66	.117	.120	.126	2.02	.32	7.4	7.5	4.8	7.2
March	29.910	30.490	29.150	34.1	41.4	39.7	46.8	29.8	38.3	74	12	23	26	28	72	57	66	.152	.156	.168	5.09	1.34	6.1	6.9	5.2	6.7
April	29.854	30.230	29.129	44.9	53.8	50.5	58.6	38.9	48.8	84	30	36	36	35	70	53	59	.217	.223	.219	2.46	.68	5.5	5.4	4.6	5.4
May	29.834	30.320	29.370	58.6	68.4	63.5	73.7	50.8	62.2	86	39	48	50	51	70	56	67	.349	.381	.392	5.42	2.71	4.2	4.2	3.5	4.4
June	29.786	30.030	29.240	66.0	74.0	70.3	77.6	60.9	69.2	90	52	60	63	62	83	70	76	.535	.584	.570	6.92	2.09	7.5	6.1	6.2	7.4
July	29.850	30.090	29.480	69.5	77.1	71.4	80.8	63.1	72.0	92	56	63	66	65	81	70	82	.586	.660	.633	5.16	1.83	5.6	4.7	5.6	6.1
August	29.810	30.160	29.460	65.9	75.2	69.9	79.2	60.8	70.0	91	52	61	63	63	85	67	80	.546	.582	.534	6.84	1.71	6.1	6.0	5.6	6.4
September	29.948	30.330	29.470	60.2	70.6	65.3	75.4	55.3	65.4	88	38	55	57	58	83	63	77	.453	.488	.497	2.06	1.12	5.5	4.5	2.7	4.7
October	29.802	30.320	29.300	48.4	59.4	54.7	64.4	44.3	54.4	87	28	42	45	46	78	61	74	.294	.335	.349	2.48	.98	4.2	4.9	3.2	4.7
November	29.836	30.230	29.180	38.9	46.3	42.9	49.7	35.3	42.5	64	21	30	32	34	70	59	70	.177	.193	.202	.89	.39	5.8	5.9	5.6	6.6
December	29.956	30.510	29.390	25.6	31.0	30.1	35.8	22.1	29.0	56	5	20	23	22	79	73	74	.113	.131	.129	4.52	1.64	8.1	7.0	5.5	7.5
Year	29.874	30.510	28.700	46.6	54.7	51.3	59.1	41.7	50.6	92	−6	39	41	42	76	62	71	.302	.328	.330	46.05	2.71	5.9	5.6	4.6	6.0

HATTERAS, N. C.

[ϕ=35° 15′ N.; λ=75° 40′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	30.128	30.524	29.113	43.4	47.3	45.2	52.1	39.4	45.8	69	25	39	40	41	85	76	84	0.256	0.261	0.268	7.58	3.42	6.5	6.9	6.4	6.9
February	30.123	30.570	29.390	48.2	51.8	49.1	56.1	43.4	49.8	71	20	45	45	45	88	79	87	.316	.318	.320	5.55	2.56	6.7	6.6	5.8	7.1
March	30.117	30.506	29.480	53.4	57.9	54.4	61.2	48.2	54.7	73	36	46	47	49	78	69	83	.343	.358	.371	6.95	2.47	4.9	4.7	4.4	4.9
April	30.092	30.460	29.616	60.8	64.8	60.0	66.7	54.9	60.8	84	41	52	53	52	76	67	76	.418	.427	.414	2.27	.73	5.9	4.4	4.6	5.1
May	29.982	30.420	29.510	70.2	72.5	68.4	74.3	62.7	68.5	81	54	62	63	63	76	72	84	.562	.580	.591	8.32	6.12	5.6	5.9	5.2	5.3
June	29.993	30.210	29.730	75.8	78.5	74.9	80.1	70.8	75.4	89	66	70	70	70	82	76	86	.730	.745	.744	8.70	1.12	6.8	6.5	6.8	6.2
July	30.039	30.270	29.890	78.6	81.6	77.6	82.9	73.5	78.2	86	68	73	74	74	84	77	87	.821	.829	.826	5.73	1.67	5.7	5.8	5.7	5.4
August	29.999	30.240	29.600	76.6	79.5	75.6	80.6	71.0	75.8	85	65	70	70	70	80	72	83	.736	.728	.741	8.71	2.43	5.7	5.3	6.0	5.3
September	30.046	30.300	29.660	74.2	76.7	72.8	77.8	69.2	73.5	85	62	68	68	67	81	75	83	.692	.692	.669	7.89	4.17	5.7	5.7	5.3	5.9
October	30.009	30.320	29.700	65.8	69.8	65.9	71.2	62.8	67.0	80	54	60	60	60	81	71	81	.539	.539	.541	2.48	.53	4.5	4.5	3.9	4.6
November	30.103	30.435	29.540	53.7	59.7	55.3	61.0	50.7	55.8	74	36	47	46	48	77	61	78	.345	.337	.363	.79	.41	3.3	3.3	2.9	3.5
December	30.114	30.460	29.430	50.1	54.1	51.4	57.8	46.1	52.0	66	36	47	48	47	89	81	87	.333	.353	.342	6.06	1.48	6.5	6.5	6.8	6.5
Year	30.062	30.570	29.113	62.6	66.2	62.6	68.5	57.7	63.1	89	20	57	57	57	81	73	83	.508	.514	.516	71.03	6.12	5.6	5.5	5.3	5.6

HAVRE, MONT.

[ϕ=48° 34′ N.; λ=109° 40′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	27.376	27.860	26.850	10.7	22.1	16.6	23.6	4.1	13.8	49	−26	8	16	12	87	77	81	0.072	0.095	0.084	0.42	0.15	4.7	6.4	7.3	6.6
February	27.425	28.000	26.900	−4.3	7.0	5.9	11.9	(*)	0.4	38	−31	−7	3	3	88	84	86	.035	.054	.052	.70	.19	6.6	5.6	4.5	4.9
March	27.281	27.820	26.838	21.0	32.5	32.8	36.5	17.1	26.8	63	−22	18	25	25	87	73	73	.102	.133	.134	.49	.32	6.3	5.7	5.6	5.1
April	27.328	27.700	26.775	34.4	48.2	48.8	52.8	32.6	42.7	77	24	31	31	33	86	55	59	.173	.178	.291	1.11	.39	6.2	5.5	6.6	6.7
May	27.315	27.830	26.750	45.1	61.0	61.2	65.0	42.5	53.8	93	32	39	39	39	81	47	47	.246	.244	.243	2.47	.76	5.4	5.3	6.2	5.9
June	27.328	27.700	27.052	54.3	74.5	76.1	79.4	51.8	65.6	97	40	43	48	48	82	42	40	.346	.335	.334	.82	.36	3.2	3.1	5.1	3.6
July	27.392	27.650	26.990	55.7	75.5	78.6	81.4	53.1	67.2	98	45	50	51	49	82	45	38	.361	.376	.353	2.76	1.66	2.8	3.4	3.0	3.6
August	27.326	27.605	27.098	56.9	79.6	80.3	84.5	55.5	70.0	96	45	51	52	50	81	40	38	.373	.393	.369	1.70	1.36	3.4	2.4	3.8	3.0
September	27.347	27.710	26.910	48.5	70.2	70.9	75.5	46.2	60.8	96	38	41	43	44	76	43	41	.260	.285	.298	.68	.26	3.7	3.2	4.2	3.3
October	27.332	27.760	26.830	37.6	59.4	55.7	62.9	32.9	47.9	81	14	31	33	34	78	40	47	.173	.193	.200	.09	.06	3.1	4.0	3.3	4.4
November	27.437	28.097	26.930	23.7	38.3	33.5	42.7	18.8	30.8	63	−5	19	27	25	84	66	73	.106	.147	.138	.54	.30	3.1	3.8	4.9	4.9
December	27.325	27.803	26.820	9.0	14.4	12.6	20.4	2.3	11.4	56	−35	8	8	7	82	78	80	.083	.085	.086	.53	.15	5.8	6.3	5.0	6.8
Year	27.351	28.097	26.750	32.7	48.6	47.8	53.0	28.8	40.9	98	−35	28	31	31	83	58	59	.194	.210	.215	12.25	1.66	4.5	4.6	5.0	4.9

* −11.1, mean minimum temperature, Havre, February.

Annual meteorological summary for the year ending December 31, 1922—Continued.

HARRISBURG, PA.

[H_b=374 ft.; h_t=94 ft.; h_r=90 ft.; h_a=104 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	7.2	NW.	35	NE.	0	11	3	7	3	7	3	11	17	0	11	8	12	10	6	9	4	0	1	13	0	28	0	1
February	7.1	NW.	38	S.	0	2	7	12	5	5	4	8	13	0	6	11	11	11	9	8	5	0	2	3	0	20	1	0
March	8.1	NW.	32	SW.	0	7	13	5	9	2	4	9	13	0	8	6	17	17	13	6	1	0	0	1	0	11	0	0
April	7.8	W.	44	SW.	1	4	8	8	7	4	5	12	12	0	11	6	13	12	6	2	0	1	0	0	0	1	3	0
May	5.9	S.	30	SW.	0	3	14	5	7	14	4	8	7	0	10	13	8	11	9	0	0	0	0	0	0	0	6	0
June	5.7	S.	27	SW.	0	6	7	6	9	9	8	8	7	0	2	12	16	13	7	0	0	0	0	0	0	0	8	0
July	4.9	S.	28	NW.	0	5	9	5	8	15	7	11	2	0	7	11	13	14	13	0	0	0	0	0	3	0	11	0
August	4.9	W.	22	N.	0	8	9	2	5	9	8	13	7	1	7	15	9	8	7	0	0	0	0	0	2	0	6	0
September	4.5	S.	19	NW.	0	8	7	9	10	12	5	7	2	0	16	8	6	3	1	0	0	0	1	0	2	0	1	0
October	5.8	W.	28	SW.	0	4	9	5	4	7	5	19	9	0	16	8	7	6	5	0	0	0	1	0	0	0	1	0
November	6.3	W.	30	NW.	0	3	5	7	4	6	6	20	9	0	8	9	13	6	3	5	1	0	2	0	0	6	0	0
December	5.8	NW.	27	N.	0	7	10	4	11	5	7	4	14	0	6	9	16	14	11	6	5	0	7	4	0	26	0	0
Year	6.2	W.	44	SW.	1	68	101	75	82	95	66	130	112	1	108	116	141	125	90	36	16	1	14	21	7	92	37	1

HARTFORD, CONN.

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

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	8.1	NW.	32	NW.	0	13	11	0	1	4	14	4	15	0	13	8	10	8	3	9	6	0	1	14	0	30	0	0
February	7.6	NW.	33	NW.	0	7	9	1	0	6	13	3	17	0	6	4	18	10	6	9	7	0	1	4	0	25	0	0
March	8.0	NW.	44	S.	1	14	8	2	0	10	8	5	15	0	7	8	16	15	12	7	5	0	1	2	0	15	0	0
April	8.6	NW.	36	SW.	0	13	3	3	1	11	11	2	16	0	13	5	12	12	7	4	2	0	3	0	0	5	1	0
May	7.9	S.	32	SW.	0	7	11	4	2	19	9	2	8	0	15	9	7	8	6	0	0	0	0	0	0	0	0	0
June	7.3	S.	35	SW.	0	7	6	4	2	18	13	4	6	0	6	8	16	13	12	0	0	0	0	0	1	0	5	0
July	6.8	S.	33	NW.	0	8	10	3	1	24	12	2	2	0	9	11	11	13	11	0	0	0	1	0	3	0	10	3
August	6.5	S.	27	SW.	0	8	12	3	1	16	13	1	8	0	8	9	14	11	10	0	0	1	1	0	2	0	8	0
September	6.1	S.	22	SW.	0	6	7	0	2	28	8	1	7	1	12	10	8	5	5	0	0	0	1	0	0	0	3	0
October	7.6	NW.	39	SW.	0	9	6	3	0	10	14	2	16	1	16	5	10	6	6	0	0	0	3	0	0	2	2	1
November	7.8	NW.	42	NW.	1	10	2	3	1	10	12	5	17	0	7	8	15	8	5	6	1	0	1	0	0	10	1	0
December	7.0	NW.	39	NW.	0	13	9	2	2	5	15	3	13	0	5	6	20	12	10	11	7	0	2	11	0	26	0	0
Year	7.4	S.	44	S.	2	115	94	28	13	161	142	34	140	2	117	91	157	121	93	46	28	1	15	31	6	113	30	4

HATTERAS, N. C.

[H_b=11 ft.; h_t=11 ft.; h_r=4 ft.; h_a=50 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	20.6	N.	52	NW.	8	22	8	2	0	2	11	8	9	0	7	7	17	10	8	1	0	0	2	0	0	5	1	0
February	16.0	SW.	57	N.	5	11	7	0	3	6	17	4	8	0	7	5	16	11	9	1	0	0	6	1	0	4	2	0
March	16.7	SW.	55	NW.	3	9	8	2	6	12	14	6	5	0	12	7	12	11	10	0	0	0	2	0	0	0	2	0
April	17.3	SW.	48	SW.	1	5	20	1	5	3	19	2	5	0	11	10	9	6	6	0	0	0	0	0	0	0	0	0
May	13.0	SW.	44	NE.	3	2	17	9	5	14	11	2	2	0	8	15	8	9	8	0	0	1	0	0	0	0	4	0
June	12.1	S.	34	W.	0	0	9	3	4	21	18	4	1	0	6	11	13	16	12	0	0	0	0	0	0	0	6	0
July	12.0	SW.	37	S.	0	5	5	3	0	12	29	3	5	0	6	15	10	14	9	0	0	0	0	0	0	0	8	0
August	9.7	SW.	50	NW.	2	6	11	6	5	9	16	6	2	1	12	9	10	13	11	0	0	0	0	0	0	0	5	0
September	11.2	NE.	49	N.	2	9	28	8	4	1	2	2	6	0	6	15	9	7	5	0	0	0	0	0	0	0	4	0
October	13.0	N.	37	N.	0	16	15	0	3	8	12	3	5	0	16	5	10	9	9	0	0	0	2	0	0	0	1	0
November	14.1	N.	44	NW.	3	17	8	1	1	2	14	6	11	0	19	5	6	7	4	0	0	0	0	0	0	0	0	0
December	14.3	SW.	52	NW.	1	11	16	1	5	4	18	4	3	0	6	9	16	16	12	0	0	0	3	0	0	0	1	0
Year	14.2	SW.	57	N.	28	113	152	36	41	94	181	50	62	1	116	113	136	129	103	2	0	1	15	1	0	9	34	0

HAVRE, MONT.

[H_b=2,505 ft.; h_t=11 ft.; h_r=4 ft.; h_a=44 ft.

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	9.0	SW.	38	SW.	0	3	2	11	0	1	27	5	11	2	5	11	15	9	6	13	9	0	1	19	0	30	0	1
February	6.7	NW.	30	SW.	0	1	5	12	2	0	14	5	15	2	9	9	10	10	5	16	10	0	0	25	0	28	0	1
March	8.3	E.	32	SW.	0	2	5	20	1	0	17	6	10	1	8	16	7	5	3	7	5	0	0	10	0	31	0	1
April	7.2	E.	27	N.	0	4	12	12	4	0	9	4	11	4	5	10	15	12	8	9	6	0	1	0	0	15	0	2
May	9.5	SW.	42	NW.	2	5	3	6	4	0	17	8	17	2	7	14	10	14	11	0	0	1	0	0	2	1	0	0
June	6.7	E.	42	N.	1	6	3	15	5	2	10	11	7	1	18	8	4	10	8	0	0	0	1	0	4	0	9	0
July	5.5	SW.	46	N.	1	4	3	8	3	4	13	7	16	4	16	12	3	10	10	0	0	0	0	0	6	0	6	0
August	6.5	E.	39	SW.	0	1	4	15	6	1	8	16	11	0	19	12	0	5	2	0	0	0	0	0	5	0	3	2
September	6.5	SW.	30	SW.	0	1	5	7	4	1	12	14	9	7	18	9	3	6	5	0	0	1	0	0	2	0	2	0
October	6.7	SW.	30	SW.	0	4	3	9	0	0	17	13	15	1	16	5	10	3	1	0	0	0	0	0	0	14	0	3
November	8.4	SW.	34	SW.	0	3	7	12	1	4	13	5	15	0	11	9	10	7	5	8	6	0	3	5	0	27	0	0
December	8.5	SW.	42	SW.	1	2	4	10	1	0	25	10	9	1	5	10	16	8	6	13	8	0	1	20	0	23	0	0
Year	7.3	SW.	46	N.	5	36	56	137	31	13	182	104	146	25	137	125	103	99	70	66	44	2	7	79	19	189	20	10

Annual meteorological summary for the year ending December 31, 1922—Continued.

HELENA, MONT.

[ϕ=46° 34′ N.; λ=112° 04 W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	25.785	26.300	25.220	16.3	22.3	22.0	27.4	11.8	19.6	48	−17	8	11	11	67	60	61	0.063	0.073	0.075	0.52	0.24	5.9	6.0	6.9	6.7
February	25.748	26.220	25.190	9.4	18.2	17.4	23.1	4.1	13.6	50	−22	4	6	7	79	58	63	.056	.060	.064	.90	.40	7.0	6.4	5.8	6.5
March	25.601	26.200	25.260	25.2	34.3	36.0	40.1	22.0	31.0	62	−9	18	20	21	73	57	54	.100	.112	.115	.79	.38	6.9	8.0	7.2	7.6
April	25.754	26.070	25.200	33.4	43.8	45.0	48.8	31.4	40.1	70	19	25	26	26	71	53	50	.135	.143	.141	2.04	.50	7.0	7.3	7.9	7.3
May	25.792	26.230	25.300	43.1	56.2	58.8	61.3	40.4	50.8	86	33	32	31	30	66	41	37	.184	.175	.167	1.63	.86	6.5	7.0	7.7	6.9
June	25.805	26.070	25.560	52.7	70.6	75.6	76.7	50.4	63.6	92	40	43	47	46	72	45	44	.286	.328	.314	2.58	.96	3.2	4.4	6.3	4.6
July	25.877	26.090	25.487	54.8	73.3	76.9	79.6	52.4	66.0	93	46	44	45	44	68	40	35	.288	.305	.290	1.32	.66	4.3	4.3	4.8	4.5
August	25.830	26.060	25.610	56.6	75.0	77.5	81.8	55.3	68.6	91	46	46	48	47	69	41	36	.316	.338	.329	.94	.24	4.2	4.2	4.8	4.7
September	25.839	26.110	25.390	50.3	67.1	69.5	74.1	47.2	60.6	90	36	36	38	37	61	37	34	.219	.236	.229	.54	.27	3.5	3.6	3.7	3.7
October	25.809	26.080	25.340	40.9	55.7	56.5	61.6	37.9	49.8	80	21	27	27	26	57	34	33	.144	.143	.138	.06	.04	4.5	4.9	4.6	4.7
November	25.893	26.330	25.450	24.5	33.0	32.0	37.8	21.2	29.5	60	8	20	22	23	82	65	69	.105	.118	.122	1.04	.50	5.0	5.8	5.5	5.8
December	25.728	26.040	25.265	15.5	19.7	18.8	27.1	9.4	18.2	54	−23	10	11	12	80	73	76	.080	.084	.086	1.10	.42	6.0	7.9	7.7	7.9
Year	25.796	26.330	25.190	35.2	47.4	48.6	53.3	32.0	42.6	93	−23	26	28	28	70	50	49	.165	.176	.172	13.46	.96	5.3	5.8	6.1	5.9

HONOLULU, HAWAII.*

[ϕ=21° 19′ N.; λ=157° 52′ W.]

January	29.981	30.110	29.740	70.3	73.0	70.5	75.8	66.0	70.9	80	62	61	61	61	73	67	72	0.536	0.540	0.537	6.39	1.52	6.4	6.9	6.1	6.5
February	30.000	30.110	29.860	70.1	73.9	69.9	75.6	66.6	71.1	78	63	59	60	60	69	63	71	.509	.528	.517	.77	.24	7.0	7.3	6.2	7.4
March	30.032	30.150	29.820	71.4	74.7	70.9	76.9	66.8	71.8	81	63	60	60	61	68	62	71	.521	.528	.535	3.54	1.64	5.5	5.3	4.2	5.6
April	30.018	30.130	29.850	73.9	77.1	72.7	79.1	69.2	74.2	82	66	62	62	62	66	60	69	.549	.555	.554	.37	.17	4.2	5.4	4.7	5.3
May	30.031	30.110	29.890	73.9	76.6	73.4	78.8	69.8	74.3	81	67	62	62	61	66	60	66	.547	.548	.541	.90	.67	5.8	6.1	4.5	5.7
June	29.992	30.120	29.870	75.6	78.8	75.3	80.3	71.9	76.1	83	69	64	63	64	68	60	69	.597	.581	.601	.42	.35	5.9	6.0	5.7	6.1
July	29.996	30.071	29.880	77.7	80.2	76.8	82.0	73.9	78.0	84	69	65	65	65	65	60	67	.612	.617	.612	.57	.46	5.3	5.5	4.5	5.2
August	29.989	30.043	29.860	77.2	80.7	76.8	82.2	73.6	77.9	84	71	65	64	65	67	58	67	.624	.606	.617	.75	.47	5.5	5.4	5.2	5.3
September	29.966	30.060	29.850	77.3	80.6	76.9	82.1	73.0	77.6	85	70	65	66	65	67	61	68	.628	.634	.626	1.49	.84	5.8	5.6	6.0	5.8
October	29.974	30.040	29.850	76.1	79.7	76.1	81.5	72.5	77.0	83	66	66	65	66	71	62	71	.635	.621	.636	3.24	2.31	5.4	5.6	5.5	5.9
November	29.967	30.090	29.780	73.5	77.2	73.5	79.1	69.7	74.4	82	63	64	63	63	72	62	70	.593	.580	.579	1.03	.27	5.0	5.2	4.7	5.2
December	30.026	30.120	29.880	72.4	77.6	72.6	79.1	68.3	73.7	82	65	63	62	63	72	60	72	.575	.564	.571	.66	.60	3.7	5.4	3.5	4.3
Year	29.997	30.150	29.740	74.1	77.5	73.8	79.4	70.1	74.8	85	62	63	63	63	69	61	69	.577	.575	.577	20.11	2.31	5.5	5.8	5.1	5.7

HOUGHTON, MICH.

[ϕ=47° 07′ N.; λ=88° 34′ W.]

January	29.357	29.990	28.500	11.0	16.9	....	21.4	5.3	13.4	36	−20	7	12	....	82	78	....	0.062	0.074	.....	2.79	0.74	8.2	7.6	....	7.7
February	29.298	29.950	28.260	11.1	16.1	....	22.1	6.0	14.0	41	−12	7	12	....	82	84	....	.063	.079	.....	4.84	1.56	8.6	7.5	....	7.9
March	29.342	29.870	28.330	22.2	32.7	....	36.0	19.5	27.8	55	−5	19	26	....	85	77	....	.108	.151	.....	.66	.24	6.2	5.7	....	6.0
April	29.299	29.760	28.630	33.9	41.2	....	45.6	30.6	38.1	66	22	30	34	....	87	76	....	.172	.197	.....	2.62	.83	6.4	6.3	....	6.8
May	29.234	29.670	28.680	52.5	65.0	....	68.3	46.8	57.6	84	41	48	57	....	85	76	....	.336	.476	.....	2.13	.96	5.4	4.7	....	5.2
June	29.225	29.704	28.790	57.8	66.8	....	70.8	50.7	60.8	95	37	49	52	....	75	63	....	.359	.403	.....	4.00	1.93	5.2	5.5	....	5.5
July	29.242	29.560	28.830	59.6	66.8	....	72.5	54.0	63.2	85	45	54	55	....	83	68	....	.426	.447	.....	2.10	.65	5.8	5.7	....	5.8
August	29.257	29.506	28.853	60.6	70.3	....	73.3	55.2	64.2	90	45	56	56	....	85	62	....	.450	.477	.....	2.01	1.11	4.2	4.6	....	4.7
September	29.337	29.860	28.980	55.2	64.7	....	68.3	51.2	59.8	87	37	51	53	....	86	69	....	.388	.430	.....	4.50	3.16	5.7	5.1	....	5.5
October	29.240	29.661	28.630	41.9	47.6	....	51.9	37.3	44.6	78	25	36	37	....	81	69	....	.225	.242	.....	.62	.21	6.2	6.4	....	6.8
November	29.267	29.860	28.420	35.4	37.8	....	40.8	31.5	36.2	52	19	32	32	....	86	80	....	.184	.190	.....	2.10	.53	9.0	9.3	....	9.2
December	29.244	29.734	28.680	16.8	19.9	....	25.1	11.8	18.4	42	−15	11	12	....	77	72	....	.077	.082	.....	2.59	.38	10.0	9.2	....	9.6
Year	29.278	29.990	28.260	38.2	45.5	....	49.7	33.3	41.5	95	−20	33	36	....	83	73	....	.238	.271	.....	30.96	3.16	6.7	6.5	....	6.7

HOUSTON, TEX.

[ϕ=29° 47′ N.; λ=95° 24′ W.]

January	29.968	30.340	29.500	47.3	52.1	....	57.3	43.8	50.6	78	30	44	42	....	89	72	....	0.314	0.288	.....	5.98	2.00	7.9	7.6	....	7.4
February	29.930	30.450	29.580	54.3	64.6	....	68.4	51.8	60.1	84	36	51	49	....	89	61	....	.394	.381	.....	2.25	.78	5.9	6.9	....	6.5
March	29.891	30.280	29.500	54.7	65.9	....	69.9	52.3	61.1	82	29	49	50	....	82	60	....	.385	.407	.....	10.66	7.36	5.6	6.0	....	5.5
April	29.818	30.310	29.520	66.1	75.8	....	79.2	63.7	71.4	87	52	62	62	....	87	64	....	.576	.573	.....	5.22	2.35	6.3	6.9	....	6.2
May	29.738	29.890	29.540	71.7	83.0	....	86.5	68.8	77.6	92	59	68	67	....	88	60	....	.688	.673	.....	6.07	1.86	4.3	4.9	....	4.5
June	29.823	29.970	29.660	75.8	85.4	....	89.1	73.2	81.2	97	66	72	70	....	87	62	....	.778	.741	.....	5.51	2.29	4.4	5.2	....	4.7
July	29.897	30.060	29.760	77.0	86.7	....	91.4	74.0	82.7	97	70	73	71	....	88	60	....	.821	.753	.....	2.11	.92	3.3	4.5	....	3.6
August	29.824	30.010	29.670	76.2	88.9	....	93.4	74.6	84.0	98	69	72	70	....	88	54	....	.799	.728	.....	1.72	1.05	3.1	4.2	....	3.5
September	29.846	30.020	29.680	72.5	85.3	....	89.1	71.8	80.4	98	67	69	67	....	88	57	....	.707	.675	.....	2.34	1.07	3.3	4.6	....	3.6
October	29.817	30.080	29.590	61.6	77.6	....	82.0	60.5	71.2	92	51	56	56	....	82	51	....	.468	.473	.....	2.90	1.40	2.3	3.9	....	3.2
November	29.945	30.150	29.720	57.1	68.0	....	72.2	56.2	64.2	84	42	52	55	....	85	66	....	.425	.471	.....	3.82	2.46	5.9	7.0	....	6.7
December	29.928	30.240	29.540	55.7	65.0	....	69.8	53.0	61.4	83	35	52	53	....	88	68	....	.429	.437	.....	2.97	1.56	5.1	5.9	....	5.4
Year	29.869	30.450	29.500	64.2	74.9	....	79.0	62.0	70.5	98	29	60	59	....	87	61	....	.565	.550	.....	51.55	7.36	4.8	5.6	....	5.1

*At Honolulu observations taken at 8 a. m. and 8 p. m., time of meridian of 157° 30′.

Annual meteorological summary for the year ending December 31, 1922—Continued.

HELENA, MONT.

[H_b=4,110 ft.; h_t=87 ft.; h_r=80 ft; h_a=112 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	9.1	SW.	33	SW.	0	1	1	0	1	2	37	7	13	0	6	9	16	6	4	16	6	0	0	16	0	31	0	1
February	6.4	SW.	31	SW.	0	4	1	0	1	2	28	5	15	0	7	6	15	9	5	16	8	0	0	19	0	28	0	0
March	7.3	SW.	30	SW.	0	3	2	3	1	3	32	8	9	1	2	11	18	6	4	14	4	0	0	4	0	26	0	1
April	8.6	SW.	35	SW.	0	3	1	0	2	5	33	7	9	0	5	7	18	11	8	13	8	0	0	0	0	14	0	2
May	9.9	SW.	40	SW.	1	10	0	0	1	5	27	12	7	0	2	14	15	12	6	6	2	0	0	0	0	0	1	0
June	7.1	SW.	29	SW.	0	3	4	2	1	4	35	5	6	0	11	13	6	15	10	0	0	0	0	0	2	0	12	0
July	7.3	SW.	39	N.	0	4	5	0	1	7	31	6	7	1	13	9	9	8	6	0	0	0	0	0	5	0	9	0
August	7.1	SW.	42	SW.	1	5	5	5	0	7	28	6	6	0	11	14	6	11	7	0	0	0	0	0	1	0	11	0
September	8.1	SW.	31	SW.	0	4	3	3	2	7	31	5	5	0	13	13	4	5	3	0	0	1	0	0	0	0	3	2
October	8.0	SW.	38	NW.	0	3	1	0	1	9	35	4	9	0	13	9	9	2	1	5	0	0	0	0	0	5	0	0
November	6.1	SW.	42	SW.	1	0	0	0	0	4	39	11	5	1	10	6	14	7	5	11	6	0	0	6	0	28	0	0
December	6.7	SW.	40	SW.	1	1	2	1	1	5	29	9	14	0	3	3	25	12	9	17	11	0	0	14	0	22	0	1
Year	7.6	SW.	42	SW.	4	41	25	14	12	60	385	85	105	3	96	114	155	104	68	98	45	1	0	59	8	154	36	7

HONOLULU, HAWAII.*

[H_b=38 ft.; h_t=86 ft.; h_r=69 ft.; h_a=100 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	9.2	E.	37	E.	0	2	24	32	1	1	0	0	1	1	5	12	14	19	18	0	0	0	0	0	0	0	1	0
February	9.4	E.	42	NE.	1	2	24	28	1	0	0	1	0	0	1	13	14	15	4	0	0	0	0	0	0	0	0	0
March	8.5	E.	27	NE.	0	2	20	33	1	1	2	0	3	0	7	18	6	12	10	0	0	0	0	0	0	0	2	0
April	8.8	E.	26	E.	0	2	22	31	3	2	0	0	0	0	3	20	7	8	4	0	0	0	0	0	0	0	0	0
May	10.3	E.	29	NE.	0	0	17	41	1	2	0	1	0	0	5	19	7	12	5	0	0	0	0	0	0	0	0	0
June	8.1	E.	27	E.	0	0	18	34	3	3	2	0	0	0	7	13	10	3	2	0	0	0	0	0	0	0	0	0
July	10.5	E.	29	E.	0	0	8	50	2	0	1	1	0	0	4	24	3	4	2	0	0	0	0	0	0	0	0	0
August	9.6	E.	27	E.	0	0	14	47	0	0	0	1	0	0	8	17	6	9	4	0	0	0	0	0	0	0	0	0
September	9.7	E.	29	E.	0	1	14	37	5	0	0	0	2	1	6	18	6	16	10	0	0	0	0	0	0	0	0	0
October	8.0	E.	26	NE.	0	4	18	34	2	2	0	1	1	0	6	12	13	8	6	0	0	0	0	0	0	0	2	0
November	8.7	E.	29	NE.	0	4	24	24	2	2	0	1	3	0	6	19	5	17	9	0	0	0	0	0	0	0	0	0
December	6.7	E.	26	E.	0	1	24	33	3	1	0	0	0	0	10	18	3	7	1	0	0	0	0	0	0	0	0	0
Year	9.0	E.	42	NE.	1	18	227	424	24	14	5	6	10	2	68	203	94	130	73	0	0	0	0	0	0	0	5	0

HOUGHTON, MICH.

[H_b=668 ft.; h_t=62 ft.; h_r=57 ft.; h_a=99 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	10.1	E.	42	W.	2	3	1	8	2	1	2	6	5	3	6	3	22	16	13	21	16	0	1	28	0	31	0	1
February	12.0	E.	50	W.	4	3	2	11	0	1	1	7	3	0	4	5	19	18	15	20	17	0	0	26	0	28	0	0
March	10.7	E.	43	W.	1	3	0	15	1	0	0	7	1	4	9	7	15	7	7	10	6	0	1	13	0	29	1	0
April	10.0	E.	50	NE	1	1	6	14	0	0	1	4	2	2	8	3	19	11	10	8	6	0	2	2	0	19	1	1
May	8.9	E.	27	E.	0	1	0	19	0	0	1	10	0	0	11	9	11	13	8	0	0	0	0	0	0	0	2	0
June	10.0	E.	50	W.	2	2	2	11	0	0	2	11	1	1	9	12	9	12	9	0	0	0	2	0	1	0	6	1
July	8.6	W.	35	W.	0	1	1	11	0	2	1	11	2	2	9	11	11	12	7	0	0	0	4	0	0	0	6	1
August	8.0	E.	38	NW.	0	0	3	14	0	0	1	12	1	0	12	12	7	8	6	0	0	0	4	0	1	0	4	0
September	8.4	E.	37	W.	0	2	1	12	1	0	0	9	0	5	12	6	12	9	7	0	0	0	6	0	0	0	6	0
October	10.5	E.	42	W.	2	2	1	16	0	0	2	3	5	2	10	2	19	9	5	5	3	0	4	0	0	8	0	0
November	10.0	E.	46	SW.	1	2	3	7	0	1	4	7	4	2	0	4	26	20	11	12	10	0	3	6	0	16	0	0
December	11.9	W.	58	W.	6	1	2	9	3	1	2	12	1	0	0	3	28	19	14	22	18	0	0	21	0	31	0	0
Year	10.0	E.	58	W.	19	21	22	147	7	6	17	99	25	21	90	77	198	154	112	98	76	0	27	96	2	162	26	4

HOUSTON, TEX.

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

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	9.2	N.	35	NW.	0	8	8	4	3	2	1	1	4	0	7	4	20	17	14	0	0	0	1	0	0	3	1	0
February	9.2	S.	42	S.	1	6	4	2	3	4	4	0	5	0	5	12	11	12	8	0	0	0	1	0	0	0	5	0
March	11.0	SE.	38	S.	0	3	1	4	8	3	2	1	9	0	12	3	16	9	8	0	0	1	0	0	0	3	4	0
April	11.1	SE.	39	SE.	0	3	8	2	14	2	1	0	0	0	4	14	12	7	4	0	0	0	0	0	0	0	2	0
May	8.2	SE.	37	SE.	0	1	4	2	9	6	3	2	4	0	9	18	4	11	11	0	0	1	0	0	0	8	0	10
June	6.1	SE.	34	SE.	0	3	3	1	9	4	4	3	3	0	11	13	6	11	10	0	0	0	0	0	17	0	11	0
July	6.8	S.	33	E.	0	1	4	2	2	9	7	3	0	3	14	17	0	10	8	0	0	0	0	0	22	0	7	0
August	5.9	S.	29	NE.	0	2	7	3	2	3	5	6	1	2	15	14	2	6	5	0	0	0	0	0	25	0	5	0
September	6.3	E.	25	E.	0	3	15	8	0	0	1	1	1	1	15	10	5	9	5	0	0	0	0	0	15	0	3	0
October	6.7	N.	31	E.	0	12	7	8	1	0	1	0	1	1	18	8	5	7	5	0	0	0	7	0	1	0	2	0
November	8.2	N.	26	SE.	0	8	6	6	4	1	0	2	3	0	5	7	18	5	5	0	0	0	1	0	0	0	4	0
December	7.5	S.	31	SE.	0	7	0	5	4	6	1	3	4	1	11	7	13	10	9	0	0	0	8	0	0	0	4	0
Year	8.0	NE.	42	S.	1	57	67	47	59	40	30	22	35	8	126	127	112	114	92	0	0	2	18	0	88	6	58	0

*At Honolulu for the observation hours see preceding page.

Annual meteorological summary for the year ending December 31, 1922—Continued.

HURON, S. DAK.

[ϕ=44° 21′ N.; λ=98° 14′ W.]

Month.	Pressure. Monthly mean.	Pressure. Extremes. Maximum.	Pressure. Extremes. Minimum.	Temperature. Mean. 8 a. m.	Temperature. Mean. Noon, local time.	Temperature. Mean. 8 p. m.	Temperature. Mean. Maximum.	Temperature. Mean. Minimum.	Temperature. Mean. Monthly.	Temperature. Extremes. Maximum.	Temperature. Extremes. Minimum.	Moisture. Dew point. 8 a. m.	Moisture. Dew point. Noon, local time.	Moisture. Dew point. 8 p. m.	Moisture. Relative humidity. 8 a. m.	Moisture. Relative humidity. Noon, local time.	Moisture. Relative humidity. 8 p. m.	Moisture. Vapor pressure. 8 a. m.	Moisture. Vapor pressure. Noon, local time.	Moisture. Vapor pressure. 8 p. m.	Moisture. Precipitation. Total.	Moisture. Precipitation. Maximum in 24 hours.	Moisture. Cloudiness. 8 a. m.	Moisture. Cloudiness. Noon, local time.	Moisture. Cloudiness. 8 p. m.	Moisture. Cloudiness. Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	28.722	29.410	28.100	9.7	18.0	15.3	23.4	4.1	13.8	42	−18	7	12	11	86	76	81	0.085	0.081	0.079	1.34	0.59	4.6	4.8	3.6	4.3
February	28.732	29.470	28.080	1.5	10.1	10.2	17.5	−3.8	6.8	38	−23	−2	5	6	84	78	82	.045	.057	.062	1.20	.48	3.9	4.7	4.6	3.0
March	28.625	29.340	28.130	24.8	34.9	34.4	39.6	22.4	31.0	64	−5	22	28	30	88	78	82	.124	.159	.167	.86	.31	5.2	6.1	5.8	4.8
April	28.607	29.080	28.070	39.2	53.5	54.2	57.8	36.8	47.3	73	24	34	36	38	81	54	56	.195	.218	.232	.54	.38	5.1	5.6	5.8	4.7
May	28.526	28.900	28.043	53.9	65.7	66.2	70.2	49.2	59.7	81	39	48	49	49	80	56	59	.340	.358	.367	2.47	1.03	5.5	7.5	4.7	4.4
June	28.574	28.950	28.170	62.3	76.6	77.4	81.4	56.8	69.1	99	44	55	57	58	79	53	54	.442	.474	.492	3.24	.89	4.3	4.0	3.2	3.2
July	28.626	28.900	28.100	63.0	77.5	77.6	81.9	59.4	70.6	94	47	58	59	58	83	54	52	.481	.507	.485	1.15	.58	4.1	4.3	3.5	4.3
August	28.580	28.800	28.320	63.9	83.5	82.9	88.4	61.8	75.1	100	50	58	56	57	81	40	43	.493	.463	.483	.39	.16	3.6	3.5	1.9	3.1
September	28.642	29.110	28.215	54.4	74.9	73.9	80.9	52.6	66.8	98	36	47	48	47	77	41	41	.340	.354	.336	.28	.25	3.6	2.9	3.0	2.6
October	28.590	28.960	28.060	39.2	60.9	57.0	65.5	37.2	51.4	93	21	34	35	35	81	41	46	.201	.208	.209	.84	.73	2.8	3.7	4.1	3.7
November	28.644	29.110	27.720	32.2	38.9	36.5	42.0	28.5	35.2	61	12	30	33	32	89	78	83	.170	.191	.183	2.72	1.29	5.9	6.8	6.4	6.8
December	28.663	29.130	27.950	12.9	20.7	18.1	26.6	7.5	17.0	47	−22	9	13	12	82	72	77	.080	.092	.090	.22	.13	4.6	5.1	3.8	5.4
Year	28.628	29.470	27.720	38.1	51.3	50.3	56.3	34.4	45.3	100	−23	33	36	36	83	60	63	.218	.264	.266	15.25	1.29	4.4	4.9	4.2	4.2

INDEPENDENCE, CALIF.

[ϕ=36° 48′ N.; λ=118° 12′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	26.000	26.450	25.350	26.3	41.6	38.4	45.6	22.7	34.2	57	6	17	22	20	66	47	49	0.097	0.122	0.113	1.11	0.86	1.2	1.7	2.3	1.8
February	25.942	26.280	25.530	31.2	43.2	42.6	46.7	28.0	37.4	70	2	25	31	30	77	63	62	.137	.175	.168	1.07	.34	3.7	4.1	5.4	4.1
March	25.944	26.320	25.380	36.6	55.9	56.1	60.4	33.3	46.8	71	21	26	34	32	63	45	41	.138	.202	.186	.10	.10	2.3	2.9	3.4	2.5
April	25.927	26.380	25.520	41.1	61.4	61.7	65.6	37.8	51.7	80	26	25	34	30	51	37	32	.133	.202	.172	.04	.04	1.4	2.4	2.8	2.2
May	25.923	26.230	25.480	51.9	75.7	76.2	79.6	49.7	64.6	89	36	29	29	28	42	18	18	.163	.162	.158	T.	T.	1.3	1.6	2.8	1.8
June	25.920	26.110	25.693	59.0	85.1	86.7	89.8	57.3	73.6	100	47	34	30	32	40	15	15	.202	.174	.185	T.	T.	1.2	1.7	2.2	1.7
July	25.995	26.170	25.757	66.7	91.6	92.0	95.5	64.7	80.1	103	57	39	37	37	37	17	16	.243	.234	.228	.02	.02	1.1	2.2	2.7	2.0
August	25.956	26.144	25.684	61.4	85.5	87.7	89.7	58.9	74.3	96	48	39	39	39	47	23	21	.259	.263	.258	.30	.15	1.6	2.1	2.3	2.1
September	25.978	26.150	25.740	58.4	84.7	85.5	88.4	55.7	72.0	95	47	31	32	31	35	15	15	.170	.180	.177	.00	.00	.4	.8	.8	.9
October	25.956	26.230	25.608	48.0	69.4	67.0	72.2	44.8	58.5	82	32	24	25	25	38	20	20	.128	.139	.135	T.	T.	.9	1.3	1.5	1.3
November	26.022	26.330	25.470	34.0	54.6	37.9	57.7	31.6	44.6	69	19	23	36	31	63	51	54	.126	.218	.176	.44	.44	1.3	2.7	2.8	2.8
December	26.022	26.320	25.656	32.9	48.3	44.3	52.5	29.6	41.0	62	18	27	33	31	79	57	62	.147	.191	.176	.57	.27	3.4	4.0	4.5	4.6
Year	25.965	26.450	25.350	45.6	66.4	64.7	70.3	42.8	56.6	103	2	28	32	30	52	34	34	.162	.188	.178	3.74	.86	1.6	2.3	2.8	2.3

INDIANAPOLIS, IND.

[ϕ=39° 46′ N.; λ=86° 10′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.289	29.810	28.680	22.8	30.3	29.2	35.3	18.1	26.7	60	−1	18	20	19	80	63	64	0.106	0.117	0.115	1.26	0.59	5.6	5.5	4.5	5.4
February	29.220	29.740	28.740	30.2	35.5	35.9	40.8	26.1	33.4	70	7	24	25	26	78	66	66	.141	.151	.157	1.46	.56	6.4	7.4	6.3	7.1
March	29.156	29.510	28.420	38.4	46.9	46.2	51.6	35.5	43.6	72	21	32	35	36	79	65	68	.193	.219	.219	7.16	3.15	7.6	7.3	7.2	7.5
April	29.162	29.515	28.361	48.9	57.6	58.2	63.9	44.5	54.2	78	32	42	43	44	78	62	62	.287	.308	.316	8.55	2.20	6.3	5.7	6.0	5.9
May	29.082	29.451	28.490	63.2	73.1	70.1	76.5	58.5	67.5	86	51	53	52	54	71	51	59	.412	.408	.432	2.58	1.40	5.6	5.7	6.0	5.8
June	29.117	29.320	28.880	69.0	80.0	78.7	83.9	63.6	73.8	93	51	59	58	59	73	49	53	.520	.496	.507	.99	.56	4.4	4.9	4.7	4.8
July	29.154	29.400	28.910	70.1	80.2	79.1	83.6	65.6	74.6	90	54	62	62	60	75	54	54	.557	.562	.535	2.67	1.11	5.5	4.5	4.4	4.6
August	29.136	29.347	28.770	68.7	80.5	77.9	84.0	64.7	74.4	95	56	60	60	61	76	51	58	.536	.529	.545	2.45	.54	3.5	3.2	4.5	3.5
September	29.231	29.490	28.970	63.2	78.2	74.8	82.1	60.4	71.2	96	44	56	57	57	78	49	56	.466	.480	.489	1.52	.97	2.4	2.4	1.7	2.4
October	29.146	29.510	28.700	51.6	64.7	62.0	68.5	49.7	59.1	89	35	44	45	45	76	52	57	.302	.321	.321	1.78	.76	4.0	4.4	2.8	4.1
November	29.245	29.540	28.706	41.2	49.1	47.0	52.3	38.5	45.4	69	22	35	36	37	79	61	68	.215	.227	.236	2.32	.78	5.9	6.3	5.6	6.0
December	29.218	29.750	28.760	30.7	35.8	34.9	41.4	25.5	33.4	63	−1	27	27	27	84	71	73	.162	.162	.163	4.45	1.24	7.3	7.0	6.2	7.0
Year	29.180	29.810	28.361	49.8	59.3	57.8	63.7	45.9	54.8	96	−1	43	43	44	77	58	62	.325	.332	.336	37.19	3.15	5.4	5.4	5.0	5.3

IOLA, KANS.

[ϕ=37° 55′ N.; λ=95° 25′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.100	29.560	28.450	24.6	33.5	31.6	39.6	20.5	30.0	64	3	20	21	....	82	60	....	0.117	0.119	....	0.96	0.36	5.6	6.2	....	6.9
February	29.043	29.550	28.450	29.6	40.6	39.4	47.4	25.4	36.4	78	7	23	23	....	74	51	....	.135	.139	....	1.26	.68	4.9	4.8	....	5.4
March	28.933	29.440	28.430	38.9	47.4	48.0	54.3	36.4	45.6	78	13	34	36	....	82	66	....	.207	.224	....	7.71	3.27	6.1	5.6	....	6.1
April	28.890	29.366	28.100	50.4	60.7	60.1	66.7	47.8	57.2	80	34	46	45	....	85	61	....	.323	.319	....	9.26	1.99	6.2	6.0	....	6.2
May	28.862	29.120	28.490	59.3	73.5	70.7	78.1	57.1	67.6	87	47	55	56	....	86	56	....	.440	.461	....	3.70	1.27	5.5	5.4	....	5.5
June	28.945	29.130	28.640	67.2	83.8	81.2	88.5	64.6	76.6	96	50	63	63	....	87	52	....	.586	.592	....	5.63	3.21	4.9	4.9	....	4.3
July	28.954	29.218	28.610	69.2	80.9	81.8	87.8	67.3	77.6	97	54	66	67	....	89	60	....	.645	.678	....	3.99	2.05	5.4	4.9	....	4.0
August	28.938	29.130	28.640	69.5	86.4	83.1	91.3	67.4	79.4	105	56	64	65	....	84	51	....	.611	.637	....	3.65	1.46	3.8	3.8	....	4.1
September	29.019	29.280	28.710	60.7	81.2	74.3	85.9	59.8	72.8	102	46	56	57	....	86	46	....	.470	.485	....	4.33	2.28	3.5	2.3	....	3.0
October	28.968	29.340	28.570	48.0	69.0	60.7	73.3	47.0	60.4	89	28	43	45	....	83	45	....	.291	.323	....	1.30	1.00	2.5	3.8	....	3.7
November	29.049	29.380	28.450	39.5	53.2	49.2	59.0	36.6	47.8	78	25	35	36	....	84	54	....	.212	.224	....	3.01	1.97	3.5	4.0	....	4.6
December	29.012	29.510	28.550	30.5	41.6	36.7	47.7	24.3	36.0	70	9	26	27	....	84	56	....	.156	.157	....	.18	.10	4.6	5.0	....	5.7
Year	28.976	29.560	28.100	49.0	62.6	59.6	68.4	46.2	57.3	105	3	44	45	....	84	55	....	.349	.363	....	44.98	3.31	4.9	4.7	....	5.0

Annual meteorological summary for the year ending December 31, 1922—Continued.

HURON, S. DAK.

[H_b=1,306 ft.; h_t=59 ft.; h_r=53 ft.; h_a=74 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Number of winds, 8 a. m. and 8 p. m. Days with 40 miles and over.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	T. or more.	Snow. 0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	10.5	SE.	42	NW.	1	6	3	2	19	5	6	9	12	0	15	6	10	9	6	16	8	0	1	24	0	31	0	1
February	10.5	W.	38	W.	0	5	5	1	11	2	2	14	16	0	22	2	4	6	6	10	5	0	0	25	0	28	2	0
March	10.4	SE.	38	W.	0	5	4	7	18	6	3	7	12	0	14	7	10	5	5	9	3	0	1	8	0	28	1	0
April	10.8	SE.	42	W.	1	11	6	6	18	5	1	4	9	0	12	10	8	8	3	1	1	0	3	0	0	5	1	1
May	10.7	SE.	52	S.	1	8	5	2	20	4	4	9	10	0	13	11	7	11	9	0	0	2	0	0	0	0	9	0
June	8.1	SE.	40	W.	1	6	2	4	12	12	4	8	12	0	15	11	4	12	8	0	0	0	0	0	4	0	8	0
July	7.4	SE.	36	SE.	0	4	4	4	16	7	4	12	11	0	12	12	7	10	6	0	0	1	1	0	6	0	9	0
August	8.1	SE.	46	N.	1	9	2	4	20	8	6	4	9	0	17	11	3	7	3	0	0	0	1	0	13	0	3	0
September	9.1	SE.	38	SE.	0	9	6	2	20	11	0	5	7	0	21	5	4	5	2	0	0	1	1	0	7	0	5	1
October	8.7	NW	34	NW.	0	5	2	1	14	12	4	5	19	0	16	7	8	4	2	1	0	0	0	0	2	11	0	0
November	10.6	NW.	42	W.	2	5	3	4	13	3	3	14	15	0	9	1	20	9	9	5	4	0	3	2	0	20	1	0
December	9.1	SE.	30	W.	0	7	5	2	15	6	5	8	14	0	12	6	13	5	3	11	5	0	2	18	0	31	0	0
Year	9.5	SE.	52	S.	7	80	47	39	190	81	42	99	146	0	178	89	98	91	62	53	26	4	13	77	32	154	39	3

INDEPENDENCE, CALIF.

[H_b=3,957 ft.; h_t=9 ft.; h_r=4 ft.; h_a=41 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	6.6	NW.	40	SW.	1	1	2	1	11	5	5	11	26	0	24	4	3	3	3	3	3	0	0	2	0	29	0	0
February	7.6	SE.	44	SW.	2	2	2	3	18	5	3	5	18	0	13	8	7	5	5	3	3	0	0	3	0	18	0	0
March	8.4	NW.	36	SW.	0	4	1	1	16	2	5	10	23	0	22	9	0	1	1	2	1	0	0	0	0	14	0	0
April	9.4	NW.	39	W.	0	3	3	1	9	2	1	8	33	0	23	6	1	1	1	2	0	0	0	0	0	8	0	0
May	7.2	NW.	33	NW.	0	3	0	0	13	1	5	13	27	0	24	7	0	0	0	1	0	0	0	0	0	0	2	0
June	5.7	SE.	28	SW.	0	2	2	4	17	4	5	9	16	1	25	5	0	0	0	0	0	0	0	0	15	0	3	0
July	5.5	NW.	32	SE.	0	1	2	1	16	3	3	11	25	0	25	5	1	1	0	0	0	0	0	0	28	0	5	0
August	5.9	SE.	33	SE.	0	2	1	2	28	8	4	8	8	1	24	5	2	4	3	0	0	0	0	0	18	0	5	0
September	4.9	NW.	21	SE.	0	0	2	1	22	5	5	3	22	0	29	1	0	0	0	0	0	0	0	0	13	0	0	0
October	6.6	NW.	35	SE.	0	1	2	2	17	8	6	9	17	0	26	5	0	0	0	0	0	0	0	0	0	1	0	0
November	6.3	NW.	28	SE.	0	1	1	1	8	2	3	10	34	0	19	7	4	1	1	0	0	0	0	0	0	16	0	0
December	4.1	NW.	40	W.	1	2	1	3	12	4	4	10	26	0	14	10	7	9	3	2	1	0	0	0	0	22	0	0
Year	6.5	NW.	44	SW.	4	22	19	20	187	49	49	107	275	2	268	72	25	25	17	13	8	0	0	5	74	108	15	0

INDIANAPOLIS, IND.

[H_b=822 ft.; h_t=194 ft.; h_r=188 ft.; h_a=230 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	12.5	NE.	38	SW.	0	4	14	5	5	8	11	7	8	0	12	7	12	9	6	10	4	0	3	14	0	28	0	0
February	14.1	S.	46	W.	2	5	9	5	0	14	8	4	11	0	5	8	15	9	4	8	2	0	2	6	0	20	0	0
March	14.3	S.	42	W.	2	6	9	7	7	9	8	5	11	0	6	5	20	16	13	7	3	0	0	1	0	10	5	0
April	13.6	SE.	54	W.	3	2	12	4	10	11	9	8	4	0	10	7	13	13	10	0	0	3	0	0	0	1	8	0
May	10.5	S.	34	NE.	0	4	5	5	16	11	3	13	5	0	9	12	10	12	10	0	0	0	0	0	0	0	4	0
June	9.9	SW.	38	W.	0	10	12	4	4	6	18	2	4	0	10	15	5	4	3	0	0	0	0	0	3	0	4	0
July	9.8	SW.	34	SW.	0	5	13	5	4	7	13	8	7	0	14	10	7	9	7	0	0	0	0	0	2	0	6	0
August	8.7	NW.	38	NW.	1	7	7	7	12	7	11	3	7	1	15	14	2	9	7	0	0	0	0	0	4	0	10	0
September	9.4	SW.	48	NW.	1	6	17	4	7	13	10	2	0	1	21	7	2	5	4	0	0	0	0	0	8	0	6	0
October	10.0	S.	32	NW.	0	5	7	5	6	17	9	5	7	1	18	4	9	8	6	0	0	0	0	0	0	0	1	0
November	12.4	S.	39	SW.	0	4	1	4	5	15	10	14	7	0	8	8	14	10	7	4	1	0	0	0	0	7	2	0
December	12.6	S.	38	NE.	0	5	7	3	11	12	10	6	8	0	7	4	20	11	9	9	2	0	0	8	0	22	0	0
Year	11.5	S.	58	NW.	9	63	113	58	87	130	120	77	79	3	135	101	129	115	86	38	12	3	5	29	17	88	46	0

IOLA, KANS.

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

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	7.3	S.	28	SW.	0	6	3	5	4	8	1	1	3	0	8	6	17	5	5	3	2	0	0	8	0	28	1	0
February	10.0	NE.	30	NE.	0	8	7	1	3	4	1	3	1	0	7	13	8	5	4	3	2	0	0	2	0	20	1	0
March	10.2	S.	32	NE.	0	5	2	4	5	7	1	2	5	0	11	4	16	11	9	2	1	0	1	2	0	8	5	0
April	8.8	S.	35	NW.	0	6	3	7	6	4	3	0	1	0	8	7	15	13	12	0	0	2	0	0	0	0	6	0
May	6.4	S.	31	W.	0	3	3	4	4	8	1	3	5	0	8	13	10	13	9	0	0	0	0	0	0	0	9	0
June	5.0	S.	28	SW.	0	5	2	2	1	10	5	0	2	3	13	16	1	6	6	0	0	1	0	0	14	0	7	0
July	5.3	S.	36	N.	0	6	7	5	4	6	3	0	0	0	9	17	5	10	9	0	0	0	0	0	11	0	7	0
August	4.6	S.	19	N.	0	3	2	5	6	10	1	2	0	2	13	15	3	10	7	0	0	0	0	0	15	0	8	0
September	5.4	S.	19	N.	0	4	4	3	6	12	0	0	0	1	21	5	4	7	6	0	0	0	0	0	10	0	6	0
October	5.1	S.	27	N.	0	5	2	1	4	10	1	1	7	0	17	8	6	8	5	0	0	0	1	0	0	1	2	0
November	7.4	SE.	32	W.	0	4	2	1	4	6	3	4	6	0	14	7	9	6	4	0	0	0	0	0	0	11	1	0
December	7.8	N.	30	S.	0	8	4	2	3	7	4	0	3	0	9	9	13	2	2	2	0	0	0	6	0	26	0	0
Year	6.9	S.	36	N.	0	63	41	40	50	92	24	16	33	6	138	120	107	95	78	10	5	3	2	18	50	94	53	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

JACKSONVILLE, FLA.

[ϕ=30° 20′ N.; λ=81° 39′ W.]

Month.	Pressure.			Temperature.								Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	30.129	30.490	29.450	49.0	56.5	53.3	60.5	46.2	53.4	78	30	45	48	48	86	76	84	0.319	0.363	0.357	3.21	1.33	6.5	5.6	4.5	5.9
February	30.112	30.510	29.740	56.9	66.3	61.9	70.4	53.7	62.0	81	28	54	55	56	90	69	82	.446	.470	.475	5.56	1.66	5.1	7.0	5.9	6.7
March	30.063	30.310	29.730	60.1	68.5	64.6	72.5	57.0	64.8	83	40	54	52	54	82	58	70	.449	.417	.425	3.69	1.52	3.5	5.0	3.3	4.6
April	30.070	30.330	29.760	66.6	76.5	71.2	79.4	63.5	71.4	90	51	59	57	58	79	53	66	.522	.482	.500	1.39	.97	3.5	3.9	2.3	3.8
May	29.920	30.220	29.560	73.0	80.8	75.2	83.7	69.1	76.4	93	62	66	64	65	81	60	74	.657	.613	.631	7.18	4.66	4.0	5.4	5.1	5.4
June	29.973	30.140	29.820	77.5	84.3	78.4	87.8	72.3	80.0	93	65	72	70	71	82	64	79	.774	.744	.761	5.88	1.74	3.0	5.5	5.4	4.9
July	30.047	30.200	29.910	79.1	85.3	80.6	89.6	74.3	82.0	94	69	73	70	71	82	61	74	.813	.723	.768	3.91	1.28	2.7	4.8	5.0	4.2
August	29.950	30.080	29.780	76.5	82.5	76.7	85.1	72.5	78.8	92	66	72	72	71	88	71	84	.799	.782	.765	7.71	2.01	5.2	6.1	5.9	6.0
September	29.963	30.130	29.820	73.8	80.0	76.0	82.9	70.8	76.8	90	61	70	69	72	88	72	86	.745	.724	.775	6.70	1.72	5.4	7.0	4.1	6.0
October	29.909	30.060	29.640	69.6	75.8	71.8	78.1	67.2	72.6	88	56	66	66	67	90	73	85	.666	.653	.674	8.84	2.96	7.0	7.0	5.6	7.2
November	30.080	30.400	29.580	59.3	69.7	64.9	72.1	57.5	64.8	83	37	53	54	56	82	59	73	.444	.452	.469	.58	.58	5.1	6.6	2.9	5.0
December	30.095	30.430	29.650	56.5	65.2	61.7	69.2	53.9	61.6	80	38	53	56	55	90	73	81	.421	.457	.452	2.54	1.67	5.5	6.5	4.8	5.9
Year	30.028	30.510	29.450	66.5	74.3	69.7	77.6	63.2	70.4	94	28	61	61	62	85	66	78	.588	.573	.588	57.19	4.66	4.7	5.9	4.6	5.5

JUNEAU, ALASKA.*

[ϕ=58° 18′ N.; λ=134° 24′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.878	30.525	29.030	31.3	33.0	31.3	34.4	28.6	31.5	42	15	26	28	27	81	81	82	0.146	0.155	0.149	11.56	3.79	8.5	8.5	7.3	8.5
February	29.966	30.320	29.032	21.4	27.3	23.8	29.3	18.3	23.8	44	0	12	14	12	67	58	62	.086	.098	.089	3.83	1.40	5.1	5.4	4.7	5.0
March	29.707	30.370	28.870	28.9	35.0	31.4	36.6	26.3	31.4	48	14	18	18	21	62	53	66	.107	.111	.121	5.08	1.56	6.4	6.0	4.0	6.0
April	29.918	30.430	29.540	37.9	43.4	39.4	45.6	33.7	39.6	53	25	31	31	32	77	66	76	.178	.184	.183	10.88	1.37	8.0	7.7	7.3	7.9
May	29.826	30.490	29.111	45.2	51.0	48.0	54.6	38.2	46.4	79	32	37	37	37	75	62	68	.225	.221	.222	5.13	1.37	6.9	7.3	7.1	6.8
June	29.996	30.320	29.560	52.2	57.8	55.3	60.5	45.9	53.2	75	42	44	44	43	76	63	67	.292	.285	.282	2.67	.98	6.9	7.3	8.1	7.6
July	30.071	30.380	29.770	53.0	57.2	55.3	59.6	48.5	54.0	74	41	48	49	49	85	76	80	.337	.348	.322	3.16	.99	8.2	7.9	8.4	8.2
August	29.890	30.244	29.296	53.3	58.2	55.5	61.5	48.6	55.0	73	36	50	50	50	89	76	83	.359	.361	.366	9.20	1.76	7.4	8.4	8.3	8.6
September	29.751	30.280	29.053	47.0	51.5	48.0	54.1	43.9	49.0	64	34	44	44	44	89	76	88	.288	.294	.294	10.32	1.93	8.4	8.6	7.9	8.6
October	29.762	30.220	28.890	42.3	46.3	43.1	48.7	38.9	43.8	55	31	39	41	40	90	82	89	.245	.257	.249	6.49	1.32	8.4	8.1	7.6	8.4
November	29.684	30.270	28.890	37.3	39.5	37.4	42.8	33.5	38.2	52	21	34	33	34	86	78	88	.197	.191	.200	11.43	1.93	8.3	8.7	8.2	8.5
December	29.827	30.450	29.100	27.5	29.0	27.7	32.2	23.7	28.0	43	14	19	18	19	71	65	69	.111	.109	.110	2.16	.87	6.3	6.2	5.1	6.5
Year	29.856	30.525	28.870	39.8	44.1	41.4	46.7	35.7	41.2	79	0	34	34	34	79	70	76	.214	.218	.218	81.91	3.79	7.4	7.5	7.0	7.6

KALISPELL, MONT.

[ϕ=48° 10′ N.; λ=114° 25′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	26.974	27.580	26.464	14.2	19.6	20.1	23.8	10.0	16.9	42	−12	10	14	16	84	76	81	0.072	0.083	0.090	0.74	0.20	6.9	7.9	7.4	7.0
February	26.892	27.420	26.280	9.3	18.6	21.4	25.0	5.9	15.4	41	−13	6	11	14	87	70	71	.063	.075	.083	.60	.16	5.6	6.6	5.8	5.9
March	26.837	27.390	26.410	23.5	34.3	35.7	38.6	21.2	29.9	52	−5	19	23	22	82	62	58	.105	.122	.119	.77	.30	6.3	6.9	6.7	6.4
April	26.906	27.210	26.390	32.3	44.9	46.3	48.7	31.5	40.1	67	23	26	26	26	77	49	48	.140	.141	.143	1.86	.91	6.5	6.6	6.4	6.0
May	26.926	27.380	26.480	40.8	57.2	59.1	61.6	39.1	50.4	80	29	32	30	30	72	38	38	.186	.169	.174	.76	.46	3.9	5.6	5.3	4.7
June	26.882	27.180	26.653	51.4	72.2	75.1	77.6	49.9	63.8	92	39	42	40	39	71	34	31	.268	.254	.242	.54	.21	3.3	3.2	3.3	3.2
July	26.956	27.190	26.570	50.7	74.3	77.2	79.7	49.6	64.6	94	45	42	41	39	73	32	28	.234	.264	.244	.61	.69	2.0	3.2	3.0	2.9
August	26.910	27.100	26.653	53.7	73.8	76.7	79.5	52.1	65.8	93	42	43	45	44	69	38	35	.284	.302	.297	.76	.27	3.6	4.2	4.5	3.8
September	26.939	27.220	26.500	47.2	65.1	67.7	70.9	44.6	57.8	85	36	38	40	39	72	43	38	.232	.256	.242	.52	.31	3.5	3.7	4.1	4.0
October	26.936	27.230	26.490	39.0	54.4	54.2	59.1	36.2	47.6	73	24	32	33	35	77	46	50	.184	.193	.208	1.05	.64	3.8	4.2	5.0	4.3
November	27.071	27.500	26.520	26.2	33.2	33.1	36.7	23.4	30.0	49	16	22	24	26	84	69	73	.118	.128	.135	1.06	.45	6.4	6.1	5.2	6.6
December	26.881	27.300	26.250	16.6	21.0	20.5	24.6	12.0	18.3	47	−19	12	14	15	82	74	79	.094	.097	.102	1.50	.28	9.0	8.8	8.1	8.5
Year	26.926	27.580	26.250	33.7	47.4	48.9	52.2	31.3	41.7	94	−19	27	28	29	78	53	52	.168	.174	.173	10.97	.91	5.1	5.6	5.4	5.3

KANSAS CITY, MO.

[ϕ=39° 05′ N.; λ=94° 37′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.120	29.680	28.466	24.6	33.2	32.2	38.5	20.9	29.7	64	1	16	18	19	69	53	58	0.096	0.103	0.112	0.61	0.43	4.1	4.9	4.0	4.8
February	29.063	29.660	28.510	27.9	37.2	37.7	43.4	23.4	33.3	73	1	19	18	20	67	45	49	.118	.114	.123	1.49	.97	4.0	3.0	3.9	3.8
March	28.963	29.510	28.390	38.7	46.9	48.0	53.4	36.5	45.0	76	12	32	34	37	78	64	67	.199	.211	.238	5.73	2.69	5.8	5.6	5.6	5.5
April	28.923	29.380	28.077	49.6	59.4	61.3	64.7	47.0	55.8	83	33	43	45	44	79	62	56	.290	.320	.302	4.06	1.26	5.8	5.6	4.9	5.1
May	28.878	29.158	28.453	61.3	71.4	71.2	75.0	58.6	66.8	83	49	53	54	54	76	58	58	.420	.445	.437	2.83	.85	5.6	5.5	4.7	5.0
June	28.950	29.190	28.660	70.8	82.4	82.7	86.3	68.0	77.2	96	51	62	63	62	75	53	51	.566	.585	.563	1.13	.53	3.6	4.2	2.7	3.8
July	28.979	29.260	28.644	70.8	81.1	82.0	85.5	68.3	76.9	95	59	64	65	65	79	60	59	.601	.635	.637	4.66	3.01	5.1	4.0	4.4	4.4
August	28.955	29.128	28.697	71.1	84.1	83.8	88.1	69.3	78.7	102	60	63	62	63	76	49	51	.585	.570	.586	.81	.33	3.4	3.7	2.8	3.5
September	29.035	29.330	28.730	64.3	77.1	76.1	81.3	62.7	72.0	101	51	55	56	58	73	50	55	.450	.466	.494	4.50	2.45	3.2	3.2	2.6	3.2
October	28.977	29.370	28.630	52.7	67.0	64.3	70.8	50.5	60.6	87	34	43	44	44	71	48	52	.298	.309	.306	2.31	1.66	2.3	2.9	2.2	2.8
November	29.053	29.380	28.506	42.4	52.1	50.4	55.7	39.9	47.8	73	25	35	36	37	76	55	61	.217	.221	.230	3.17	1.30	4.0	3.4	3.2	3.5
December	29.036	29.590	28.670	29.9	38.6	37.0	44.6	24.8	34.7	67	3	22	23	22	73	54	54	.134	.137	.125	.22	.17	4.1	4.2	3.5	4.3
Year	28.994	29.680	28.077	50.3	60.9	60.6	65.6	47.5	56.5	102	1	42	43	44	74	54	56	.331	.343	.346	31.52	3.01	4.2	4.2	3.7	4.1

* At Juneau, observations at 8 a. m. and 8 p. m., 135th meridian time.

Annual meteorological summary for the year ending December 31, 1922—Continued.

JACKSONVILLE, FLA.

[H_b=43 ft.; h_1=209 ft.; h_r=198 ft.; h_a=245 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	12.4	N.	48	SW.	2	19	7	4	7	5	5	4	11	0	12	6	13	9	7	0	0	0	1	0	0	1	0	0
February	12.8	S.	51	W.	3	5	10	5	8	12	11	2	3	0	4	10	14	11	10	0	0	0	3	0	0	1	5	0
March	14.7	SE.	45	SW.	3	8	9	7	14	8	5	6	5	0	12	12	7	7	6	0	0	1	1	0	0	0	5	0
April	12.8	S.	38	SW.	0	5	10	3	17	11	7	2	5	0	15	11	4	3	3	0	0	0	0	0	1	0	0	0
May	11.8	NE.	45	W.	1	0	11	11	13	7	10	5	5	0	11	11	9	13	11	0	0	0	0	0	2	0	13	0
June	9.7	S.	42	NW.	1	6	7	2	14	11	9	10	0	1	9	17	4	13	12	0	0	0	0	0	9	0	18	0
July	10.6	S.	41	S.	1	1	0	2	18	25	10	4	2	0	14	12	5	12	9	0	0	0	0	0	16	0	22	0
August	10.4	S.	44	S.	1	6	15	7	6	18	7	1	2	0	5	16	10	16	15	0	0	0	1	0	3	0	16	0
September	11.2	N.	42	N.	1	17	15	10	3	4	4	1	6	0	8	8	14	16	13	0	0	0	0	0	1	0	9	0
October	12.2	N.	35	N.	0	21	16	5	8	3	3	3	3	0	3	12	16	18	14	0	0	0	0	0	0	0	3	0
November	11.8	N.	37	N.	0	26	10	6	0	1	7	2	7	1	12	11	7	1	1	0	0	0	0	0	0	0	0	0
December	11.7	SW.	41	S.	2	5	13	3	3	8	15	8	7	0	11	7	13	9	7	0	0	0	4	0	0	0	0	0
Year	11.8	S.	51	W.	15	119	123	65	111	113	93	48	56	2	116	133	116	128	108	0	0	1	10	0	32	2	91	0

JUNEAU, ALASKA.*

[H_b=80 ft.; h_1=11 ft.; h_r=4 ft.; h_a=54 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	4.8	SE.	20	NE.	0	4	15	17	11	2	0	3	4	6	4	2	25	21	18	22	15	0	0	9	0	18	0	0
February	7.6	NE.	41	NE.	1	7	23	4	10	1	0	1	3	7	13	3	12	10	8	10	9	0	0	13	0	25	0	0
March	6.3	NE.	30	NE.	0	8	20	15	6	5	2	3	2	1	11	5	15	13	12	15	9	0	0	5	0	22	0	3
April	4.8	SE.	20	NE.	0	6	13	18	11	0	2	7	3	0	4	4	22	22	20	8	5	0	0	0	0	11	0	1
May	7.2	SE.	35	SE.	0	2	0	12	19	19	1	2	6	1	7	6	18	19	11	1	1	0	0	0	0	1	0	0
June	5.2	S.	24	NW.	0	1	5	4	3	22	5	4	12	4	6	3	21	12	8	0	0	0	0	0	0	0	0	0
July	4.9	S.	23	NW.	0	1	2	4	8	28	2	8	9	0	5	1	25	19	16	0	0	0	0	0	0	0	0	0
August	5.4	S.	28	SE.	0	2	0	10	11	24	1	7	4	3	2	3	26	24	20	0	0	0	4	0	0	0	1	1
September	6.8	S.	33	SE.	0	1	1	14	9	19	0	9	2	5	3	2	25	23	20	0	0	0	2	0	0	0	0	2
October	6.0	S.	28	SE.	0	4	1	17	11	16	0	5	3	5	4	2	25	21	16	0	0	0	4	0	0	2	0	0
November	8.4	SE.	38	SE.	0	1	1	6	24	15	3	6	4	0	3	3	24	25	24	10	7	0	0	1	0	12	0	0
December	7.7	E.	39	E.	0	8	0	17	14	16	2	2	3	0	11	1	19	13	11	11	9	0	1	17	0	28	0	0
Year	6.2	S.	41	NE.	1	45	81	138	137	167	18	57	55	32	73	35	257	222	184	77	55	0	11	45	0	119	1	7

KALISPELL, MONT.

[H_b=2,973 ft.; h_1=48 ft.; h_r=40 ft.; h_a=56 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	4.1	NW.	22	SW.	0	2	6	1	5	2	4	17	25	0	7	4	20	10	6	17	10	0	0	25	0	31	0	0
February	4.8	NW.	25	SW.	0	1	4	0	7	5	5	10	24	0	8	8	12	7	6	11	7	0	0	21	0	28	0	0
March	5.0	NW.	24	SW.	0	2	3	0	7	8	15	8	19	0	6	14	11	7	5	13	6	0	0	6	0	30	0	0
April	5.8	SE.	24	W.	0	2	3	1	16	6	8	5	19	0	6	12	12	14	11	10	7	0	0	0	0	17	0	0
May	6.1	SE.	30	SW.	0	0	4	0	13	5	13	13	14	0	13	12	6	8	4	0	0	0	0	0	0	2	1	0
June	5.9	NW.	29	SW.	0	1	3	3	14	2	6	11	20	0	23	4	3	4	4	9	0	0	0	0	1	0	2	0
July	5.8	NW.	34	SW.	0	0	1	1	13	1	8	6	32	0	19	11	1	4	4	0	0	0	0	0	1	0	2	0
August	5.3	NW.	26	W.	0	1	2	2	15	2	4	6	30	0	13	13	5	8	6	0	0	0	0	0	4	0	6	0
September	5.1	NW.	32	SW.	0	0	2	2	13	3	10	7	23	0	18	6	6	6	4	0	0	0	0	0	0	0	1	0
October	4.5	NW.	24	NE.	0	1	2	3	12	7	8	5	24	0	16	6	9	8	4	0	0	0	0	0	0	6	1	0
November	3.7	NW.	36	SW.	0	2	2	0	7	3	5	4	36	1	9	4	17	6	4	7	5	0	1	8	0	29	0	0
December	4.9	NW.	32	W.	0	6	2	0	8	3	8	2	31	2	2	3	26	20	14	18	15	0	0	17	0	24	0	0
Year	5.1	NW.	36	SW.	0	18	34	13	130	47	94	94	297	3	140	97	128	102	72	76	50	0	1	77	6	167	13	0

KANSAS CITY, MO.

[H_b=963 ft.; h_1=161 ft.; h_r=141 ft.; h_a=181 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	11.3	NW.	39	N.	0	3	9	4	12	12	7	2	13	0	15	4	12	6	3	8	4	0	0	7	0	25	2	0
February	13.9	N.	37	SW.	0	9	9	7	7	5	4	6	9	0	16	5	7	4	4	5	2	0	1	7	0	22	2	0
March	13.4	SE.	44	NE.	2	11	9	2	12	14	2	1	11	0	12	6	13	14	10	4	2	0	0	1	0	10	8	0
April	12.3	NE.	60	SW.	2	8	10	5	11	11	7	1	7	0	12	7	11	13	12	0	0	0	0	0	0	0	5	0
May	10.1	S.	38	NW.	0	7	8	10	3	12	10	5	9	0	9	14	8	13	11	0	0	0	0	0	0	0	8	0
June	8.8	SW.	45	NE.	1	8	11	5	5	9	16	3	2	1	19	9	2	9	4	0	0	0	0	0	7	0	8	0
July	8.3	S.	56	NW.	3	8	14	7	10	12	2	3	5	1	12	16	3	11	5	0	0	1	1	0	7	0	12	0
August	7.7	S.	41	NE.	1	4	12	2	14	17	6	6	1	0	16	13	2	5	4	0	0	0	0	0	10	0	8	0
September	9.4	S.	34	N.	0	7	8	7	6	24	6	0	2	0	20	4	6	8	7	0	0	0	0	0	8	0	7	0
October	9.1	S.	40	N.	1	11	3	2	12	14	8	5	7	0	21	4	6	5	4	0	0	0	4	0	0	0	4	0
November	11.7	SW.	48	NW.	1	6	3	0	13	13	11	6	8	0	18	6	6	10	9	0	0	0	1	0	0	6	1	0
December	12.1	S.	37	NW.	0	10	2	11	7	10	8	3	11	0	15	8	8	3	2	4	1	0	2	9	0	22	0	0
Year	10.7	S.	60	SW.	11	92	96	62	112	153	87	41	85	2	185	96	84	101	75	21	9	1	9	24	32	85	65	0

* At Juneau, for the observation hours see preceding page.

Annual meteorological summary for the year ending December 31, 1922—Continued.

KEOKUK, IOWA.

[ϕ=40° 22′ N.; λ=91° 26′ W.]

Month.	Pressure.			Temperature.								Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.521	30.110	28.810	19.6	29.2	27.8	34.3	16.3	25.3	55	1	12	14	17	71	52	62	0.080	0.091	0.099	1.04	0.79	4.7	4.4	3.4	4.6
February	29.445	30.100	28.870	26.0	34.8	33.1	40.1	21.1	30.6	68	2	19	18	20	74	50	59	.114	.113	.123	1.56	.46	5.4	3.9	4.1	4.6
March	29.358	29.900	28.779	38.2	46.0	44.3	50.5	35.0	42.8	72	15	33	31	34	81	58	68	.196	.187	.208	3.58	.94	6.8	6.4	6.7	6.7
April	29.332	29.760	28.450	48.9	57.8	57.4	62.9	44.8	53.8	81	33	41	41	44	76	57	62	.271	.283	.306	2.97	.69	5.2	5.8	5.6	5.8
May	29.232	29.616	28.800	61.7	72.6	70.2	75.8	56.9	66.4	87	49	53	52	54	74	51	59	.413	.407	.437	2.44	.56	4.5	5.1	6.2	5.5
June	29.321	29.580	29.020	70.6	81.1	81.7	85.4	64.6	75.0	96	51	59	58	59	68	47	48	.514	.490	.517	1.08	.68	4.2	4.8	3.7	4.4
July	29.353	29.640	29.000	70.6	80.8	81.0	84.8	66.2	75.5	96	57	62	59	61	72	49	52	.559	.516	.546	6.35	3.65	4.7	6.1	4.5	5.4
August	29.327	29.520	29.020	70.2	81.7	80.1	85.5	66.0	75.8	99	55	62	61	63	76	51	58	.564	.557	.598	3.37	2.08	4.7	5.0	4.6	5.0
September	29.422	29.740	29.070	63.6	76.9	73.2	80.0	60.1	70.0	98	46	56	56	58	77	51	61	.475	.472	.503	2.92	2.42	3.8	3.5	2.6	3.2
October	29.345	29.710	29.020	51.1	67.1	61.3	70.5	48.2	59.4	90	32	42	41	43	73	41	53	.291	.274	.293	.77	.34	3.6	3.1	2.6	3.7
November	29.424	29.740	28.880	40.7	49.0	46.5	52.7	38.1	45.4	65	22	34	36	36	78	62	68	.208	.229	.226	3.38	.99	5.1	5.7	3.6	5.3
December	29.427	29.990	28.940	25.1	34.0	32.4	40.3	20.7	30.5	63	−2	19	20	21	74	56	62	.110	.124	.125	.63	.20	4.8	5.9	4.0	5.6
Year	29.378	30.110	28.450	48.9	59.2	57.4	63.6	44.8	54.2	99	−2	41	41	42	74	52	59	.316	.312	.332	30.09	3.65	4.8	5.0	4.3	5.0

KEY WEST, FLA.

[ϕ=24° 33′ N.; λ=81° 48′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	30.068	30.420	29.710	67.5	73.1	69.7	75.2	65.6	70.4	80	55	62	62	63	84	70	79	0.569	0.571	0.581	2.60	1.84	3.4	3.5	3.7	4.2
February	30.093	30.370	29.910	69.6	74.8	70.9	77.5	67.4	72.4	83	52	64	65	64	81	70	79	.601	.622	.609	1.44	.90	3.9	3.3	1.4	2.9
March	30.063	30.220	29.900	73.9	78.0	74.2	80.5	71.4	76.0	85	62	64	65	65	73	64	74	.612	.624	.628	.08	.06	2.7	2.4	2.2	2.7
April	30.053	30.210	29.930	77.2	80.8	76.7	83.3	74.2	78.8	86	71	66	67	67	69	62	72	.644	.656	.662	.08	.04	3.1	2.7	2.9	3.0
May	29.926	30.090	29.700	78.9	81.5	78.3	84.4	74.3	79.4	88	69	71	71	70	77	71	78	.752	.765	.745	5.01	2.03	6.0	6.0	5.9	6.1
June	29.993	30.110	29.890	82.4	84.9	80.9	87.4	77.0	82.2	91	69	72	72	71	72	67	73	.798	.796	.765	3.78	2.22	3.8	3.7	5.6	4.6
July	30.066	30.170	29.950	82.4	85.4	82.0	87.7	76.9	82.3	90	72	73	73	72	73	66	73	.805	.802	.794	6.90	2.64	4.2	4.9	4.8	4.8
August	29.959	30.070	29.860	82.9	85.5	82.0	88.4	78.0	83.2	91	73	73	73	73	72	67	74	.808	.814	.804	3.51	1.00	5.2	4.4	4.8	5.0
September	29.929	30.060	29.800	82.2	84.9	81.2	87.4	77.0	82.2	90	71	73	74	74	75	70	78	.820	.836	.824	5.56	1.34	5.6	6.2	5.8	6.2
October	29.868	30.020	29.700	80.0	83.1	79.2	84.7	75.5	80.1	90	70	73	73	72	79	72	79	.804	.808	.788	8.31	2.48	5.3	5.0	4.3	5.3
November	30.018	30.270	29.780	74.5	78.8	74.9	80.4	70.9	75.6	85	60	69	68	67	83	71	77	.713	.703	.673	3.36	1.73	4.5	4.8	4.0	4.8
December	30.084	30.320	29.860	72.0	76.7	72.3	78.2	69.0	73.6	84	57	66	67	66	83	73	81	.658	.675	.642	3.02	1.36	3.5	2.8	2.4	3.2
Year	30.010	30.420	29.700	77.0	80.6	76.9	82.9	73.1	78.0	91	52	69	69	69	77	69	76	.715	.723	.710	43.65	2.64	4.3	4.1	4.0	4.4

KNOXVILLE, TENN.

[ϕ=35° 56′ N.; λ=83° 58′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.107	29.420	28.250	35.7	42.1	42.1	46.8	32.6	39.7	64	18	32	32	33	81	69	71	0.188	0.194	0.197	4.64	1.55	7.6	7.8	7.1	7.6
February	29.066	29.500	28.650	42.4	49.5	49.1	54.8	38.9	46.8	75	19	37	36	38	81	61	67	.240	.231	.249	4.09	2.38	8.6	7.0	6.1	7.5
March	29.025	29.323	28.480	45.7	56.1	55.2	61.1	42.6	51.8	79	30	40	39	41	82	56	61	.264	.260	.272	7.60	2.41	7.0	7.6	6.6	7.2
April	29.037	29.390	28.490	54.7	65.1	64.8	70.6	51.5	61.0	85	36	47	46	46	76	53	54	.338	.334	.338	4.61	1.11	7.6	6.9	6.6	6.8
May	28.938	29.310	28.400	63.3	74.1	70.2	78.2	58.3	68.2	88	46	56	55	57	79	53	65	.461	.443	.476	3.82	1.31	6.9	7.7	7.6	7.7
June	28.980	29.190	28.750	70.1	80.7	77.2	85.3	66.2	75.8	92	58	65	64	65	84	59	67	.619	.610	.617	3.64	1.41	7.4	7.4	6.3	6.9
July	29.029	29.200	28.800	72.6	82.7	77.8	86.3	68.3	77.3	93	60	67	66	67	84	58	70	.668	.648	.665	4.02	1.48	6.4	7.4	7.4	7.0
August	28.993	29.210	28.780	67.9	79.5	76.6	83.7	64.3	74.0	91	55	63	61	63	84	56	64	.574	.554	.577	3.47	1.38	5.4	6.3	6.2	5.8
September	29.057	29.230	28.860	65.5	80.5	76.3	84.3	62.7	73.5	92	55	60	59	60	83	49	58	.529	.506	.522	1.86	1.46	4.8	4.3	3.5	4.1
October	28.996	29.300	28.665	52.5	68.8	64.2	72.3	49.2	60.8	86	38	46	43	46	78	42	52	.322	.300	.321	1.39	.86	4.7	4.5	3.9	4.6
November	29.120	29.391	28.520	42.0	55.1	52.3	59.1	39.1	49.1	72	21	38	37	38	85	52	58	.242	.238	.243	1.80	.82	5.0	5.2	2.8	4.9
December	29.058	29.390	28.450	41.7	50.0	49.1	55.1	38.1	46.6	72	25	38	39	39	87	68	70	.244	.256	.261	7.27	2.27	8.0	6.5	6.2	7.1
Year	29.034	29.500	28.250	54.5	65.4	62.9	69.8	51.0	60.4	93	18	49	48	49	82	56	63	.391	.381	.395	48.21	2.41	6.6	6.6	5.9	6.4

LA CROSSE, WIS.

[ϕ=43° 49′ N.; λ=91° 15′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.385	30.080	28.670	8.0	17.5	18.0	24.4	3.7	14.0	42	−24	6	9	....	88	67	....	0.061	0.073	.....	1.25	1.07	4.9	5.8	4.2	5.5
February	29.274	30.040	28.440	13.1	21.4	20.0	27.9	7.2	17.6	48	−9	10	13	....	85	63	....	.076	.083	.....	4.04	2.29	5.6	5.0	5.5	5.5
March	29.255	29.890	28.420	29.5	39.3	37.8	43.5	26.5	35.0	66	4	25	26	....	83	69	....	.141	.145	.....	1.83	1.13	5.8	6.0	6.2	6.3
April	29.210	29.730	28.240	40.7	50.8	51.2	56.1	37.7	46.9	70	27	36	36	....	82	58	....	.214	.216	.....	3.86	1.49	5.7	7.4	7.0	7.2
May	29.148	29.569	28.600	58.4	70.1	67.5	74.0	54.3	64.2	89	47	52	52	....	78	55	....	.389	.396	.....	4.36	2.10	5.0	6.5	6.6	6.2
June	29.199	29.590	28.780	63.0	75.7	74.7	79.8	58.8	69.3	93	44	57	58	....	82	57	....	.479	.495	.....	3.20	1.35	5.1	5.1	4.5	4.6
July	29.219	29.540	28.810	63.2	75.5	73.8	79.1	58.8	69.0	86	49	59	59	....	86	57	....	.504	.500	.....	2.08	1.19	5.8	7.4	4.8	6.3
August	29.210	29.395	28.850	63.4	79.0	75.7	82.7	60.5	71.6	95	49	60	60	....	88	54	....	.522	.547	.....	3.43	2.57	3.4	4.2	5.5	4.5
September	29.307	29.750	28.880	55.8	72.5	67.0	75.7	53.7	64.7	101	40	53	54	....	90	54	....	.415	.431	.....	2.34	.86	4.3	4.7	3.6	4.2
October	29.207	29.550	28.810	44.6	60.7	55.4	65.5	42.3	53.9	87	25	40	41	....	83	50	....	.254	.275	.....	1.24	.99	4.9	5.0	3.2	5.0
November	29.240	29.630	28.620	38.5	43.8	42.3	47.7	35.6	41.6	63	15	34	35	....	84	71	....	.208	.211	.....	3.50	1.52	8.0	7.7	7.5	8.1
December	29.291	29.830	28.830	16.3	23.6	21.8	29.1	11.8	20.4	47	−17	14	15	....	90	67	....	.094	.095	.....	.42	.20	6.0	5.8	5.2	5.8
Year	29.245	30.080	28.240	41.2	52.5	50.4	57.1	37.6	47.4	101	−24	37	38	....	85	59	....	.280	.289	.....	32.15	2.57	5.4	5.9	5.3	5.8

Annual meteorological summary for the year ending December 31, 1922—Continued.

KEOKUK, IOWA.

[H_b=614 ft.; h_1=64 ft.; h_r=56 ft.; h_a=78 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.	*	*Mi.*																									
January	7.9	E.	35	W.	0	7	11	8	6	6	9	7	8	0	13	11	7	5	2	7	3	0	1	11	0	29	0	0
February	9.6	NW.	40	SW.	1	8	7	5	4	7	7	4	13	1	11	11	6	6	6	7	1	0	1	9	0	24	1	0
March	9.6	N.	34	SW.	0	9	5	12	6	10	5	4	11	0	7	6	18	13	11	6	4	0	1	2	0	11	4	0
April	8.6	S.	36	NW.	0	5	9	12	11	9	7	5	2	0	10	5	15	11	10	0	0	0	1	0	0	0	4	0
May	6.8	E.	37	SW.	0	1	6	13	6	15	5	10	5	1	8	13	10	15	14	0	0	1	1	0	0	0	13	0
June	5.8	N.	34	NW.	0	12	8	4	4	14	8	2	8	0	14	12	4	6	6	0	0	1	0	0	5	0	3	0
July	6.1	S.	26	N.	0	11	10	3	4	13	10	3	8	0	11	9	11	7	6	0	0	0	0	0	3	0	6	0
August	5.0	S.	24	NW.	0	7	5	8	12	13	8	3	6	0	12	12	7	9	9	0	0	0	0	0	6	0	11	0
September	4.9	S.	24	S.	0	8	7	7	4	17	6	4	4	3	20	2	8	6	6	0	0	0	0	0	7	0	3	0
October	5.9	SW.	33	NW.	0	5	3	7	10	12	7	3	13	2	18	6	7	5	4	0	0	0	1	0	0	0	1	0
November	8.8	SW.	36	S.	0	6	2	6	4	13	13	6	10	0	9	13	8	11	9	0	0	0	2	0	0	9	3	0
December	8.1	NW.	29	NW.	0	9	5	7	8	8	7	7	11	0	10	9	12	6	4	2	1	0	1	9	0	24	0	0
Year	7.3	S.	40	SW.	1	88	78	92	79	137	92	58	99	7	143	109	113	100	87	22	9	2	9	31	21	97	49	0

KEY WEST, FLA.

[H_b=22 ft.; h_1=10 ft.; h_r=3 ft.; h_a= 64 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	11.1	E.	37	W.	0	4	19	27	2	4	1	1	4	0	14	12	5	10	7	0	0	0	0	0	0	0	2	0
February	12.4	SE.	39	NW.	0	2	14	18	15	5	0	0	2	0	17	10	1	10	5	0	0	0	0	0	0	0	2	0
March	13.5	SE.	26	E.	0	3	9	13	20	5	3	0	4	0	21	8	2	3	1	0	0	0	0	0	0	0	0	0
April	11.6	SE.	26	SE.	0	4	2	24	25	4	0	0	1	0	20	8	2	4	1	0	0	0	0	0	0	0	0	0
May	9.8	SE.	46	NW.	1	3	3	7	22	11	4	1	10	1	6	13	12	15	13	0	0	0	0	0	0	0	14	0
June	7.4	SE.	29	SW.	0	1	3	18	21	10	3	2	1	1	11	16	3	13	7	0	0	0	0	0	2	0	14	0
July	8.6	SE.	34	NW.	0	0	4	19	36	3	0	0	0	0	10	16	5	15	13	0	0	0	0	0	0	0	21	0
August	7.4	SE.	31	NW.	0	1	6	14	26	9	1	3	2	0	9	17	5	8	7	0	0	0	0	0	7	0	14	0
September	8.8	SE.	52	W.	1	2	3	20	17	5	6	4	3	0	2	19	9	17	13	0	0	0	0	0	0	0	14	0
October	10.1	SE.	34	SE.	0	7	9	10	13	9	5	2	7	0	10	10	11	12	9	0	0	0	0	0	0	0	4	0
November	11.3	E.	44	W.	1	5	20	25	2	2	2	3	1	0	11	12	7	11	6	0	0	0	0	0	0	0	2	0
December	10.6	NE.	32	W.	0	0	18	19	14	3	0	1	7	0	20	9	2	9	6	0	0	0	0	0	0	0	4	0
Year	10.2	SE.	52	W.	3	32	110	219	213	70	25	17	42	2	151	150	64	127	88	0	0	0	0	0	9	0	91	0

KNOXVILLE, TENN.

[H_b=996 ft.; h_1=102 ft.; h_r=96 ft.; h_a=111 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	6.1	* NE.	28	SW.	0	12	19	3	3	4	14	3	4	0	2	10	19	16	12	8	5	0	1	0	0	12	0	0
February	7.6	SW.	35	SW.	0	13	10	6	1	5	14	4	3	0	3	8	17	10	9	5	2	0	0	1	0	8	1	0
March	7.1	SW.	40	SW.	1	6	17	6	3	8	17	4	1	0	7	4	20	15	13	3	0	0	1	0	0	2	5	0
April	8.0	SW.	42	SW.	1	9	16	3	1	5	19	4	3	0	5	9	16	15	12	0	0	0	0	0	0	0	5	0
May	5.3	NE.	30	SW.	0	5	21	4	1	7	14	7	3	0	1	11	19	15	13	0	0	1	3	0	0	0	9	0
June	5.2	SW.	22	SW.	0	7	12	7	3	7	17	5	2	0	3	9	18	17	14	0	0	1	1	0	6	0	14	0
July	5.5	SW.	32	S.	0	6	8	7	5	11	17	5	3	0	2	13	16	12	9	0	0	0	2	0	5	0	10	0
August	4.9	NE.	27	S.	0	6	17	7	3	5	14	2	3	5	8	13	10	10	9	0	0	0	1	0	2	0	7	0
September	4.0	NE.	21	SW.	0	12	24	5	2	5	5	2	3	2	13	11	6	5	4	0	0	0	0	0	4	0	6	0
October	4.9	NE.	26	SW.	0	8	25	5	2	3	12	1	2	4	15	5	11	4	4	0	0	0	0	0	0	0	0	0
November	5.1	NE.	24	SW.	0	9	18	1	2	4	12	9	3	2	13	6	11	6	4	3	2	0	1	0	0	7	0	0
December	6.2	NE.	29	SW.	0	11	19	2	1	4	16	5	3	1	7	5	19	16	16	1	0	0	0	0	0	8	1	0
Year	5.8	NE.	42	SW.	2	104	206	56	27	68	171	51	33	14	79	104	182	141	119	20	9	2	10	1	17	37	58	0

LA CROSSE, WIS.

[H_b=714 ft.; h_1=11 ft.; h_r=3 ft.; h_a=48 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	5.3	* S.	24	W.	0	4	1	0	3	12	2	3	6	0	12	6	13	4	2	7	4	0	1	21	0	31	0	0
February	5.9	S.	30	SW.	0	1	1	2	2	7	3	6	6	0	11	5	12	9	7	7	6	0	0	18	0	28	2	0
March	6.3	S.	24	SW.	0	6	4	2	3	8	2	0	5	0	8	8	15	9	6	8	5	0	0	2	0	28	2	0
April	5.6	N.	28	NW.	0	7	2	2	7	2	5	1	3	1	5	8	17	13	9	4	2	1	0	0	0	4	3	2
May	4.4	SE.	18	SW.	0	4	4	0	8	7	2	4	2	0	6	12	13	15	10	0	0	0	0	0	0	0	7	0
June	4.2	SE.	16	N.	0	3	2	1	11	5	1	4	3	0	11	12	7	13	7	0	0	0	1	0	1	0	12	0
July	3.7	SE.	20	SE.	0	3	1	0	9	6	3	4	5	0	9	8	14	9	6	0	0	0	1	0	0	0	8	0
August	3.7	SE.	22	NW.	0	1	1	1	13	4	3	0	7	1	14	10	7	8	6	0	0	0	1	0	4	0	4	0
September	3.8	SE.	14	S.	0	5	0	0	12	7	0	0	4	2	15	8	7	8	6	0	0	0	3	0	4	0	6	0
October	4.4	SE.	18	S.	0	3	0	3	11	3	2	3	5	1	13	7	11	7	5	0	0	0	3	0	0	2	2	0
November	6.0	S.	27	SW.	0	1	2	1	5	6	6	3	6	0	3	6	21	11	9	3	1	0	0	1	0	12	0	0
December	5.6	SE.	22	W.	0	2	2	1	14	2	1	3	6	0	11	5	15	6	4	10	5	0	0	16	0	30	0	0
Year	4.9	SE.	30	SW.	0	40	20	13	98	69	30	31	59	5	118	95	152	112	77	39	23	1	10	58	9	135	46	2

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1922—Continued.

LANDER, WYO.

[ϕ=42° 50′ N.; λ=108° 45′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	24.584	25.090	24.050	1.4	13.5	10.2	20.4	-5.6	7.4	39	-34	-4	5	2	77	66	68	0.039	0.055	0.049	1.13	0.68	2.9	2.6	2.8	3.1
February	24.345	24.919	24.040	9.2	21.7	21.4	28.4	3.9	16.2	46	-17	4	11	11	77	64	64	.056	.072	.073	.40	.18	4.5	4.2	5.1	4.5
March	24.540	24.920	24.166	19.7	34.7	38.8	41.9	17.2	29.6	60	-10	13	20	22	74	55	50	.084	.109	.115	.60	.48	4.3	3.8	5.4	4.4
April	24.567	24.930	24.100	29.5	42.3	44.6	48.0	27.5	37.8	64	9	25	29	30	81	62	59	.135	.161	.171	3.65	1.40	5.9	5.2	6.1	5.8
May	24.623	24.976	24.030	42.0	58.2	60.5	63.9	39.6	51.8	82	29	33	35	35	72	45	44	.188	.211	.209	1.70	.56	4.8	4.4	5.2	4.8
June	24.672	24.966	24.300	51.5	74.8	79.1	81.5	48.9	65.2	94	32	39	39	40	63	29	27	.241	.241	.253	.38	.23	1.6	2.5	4.0	3.1
July	24.745	24.950	24.350	55.1	75.8	79.1	82.5	53.5	68.0	94	42	43	46	44	65	38	32	.280	.310	.297	.09	.04	3.2	4.0	5.5	4.3
August	24.729	24.930	24.556	58.2	78.5	80.8	84.9	56.3	70.6	91	48	46	46	48	64	34	35	.312	.321	.349	1.04	.54	3.5	3.8	5.1	4.5
September	24.731	24.954	24.484	47.7	71.3	73.2	77.2	45.4	61.3	86	34	35	38	39	64	31	31	.207	.229	.242	.02	.02	2.2	2.3	3.0	2.8
October	24.689	24.920	24.280	36.0	53.8	53.8	60.1	32.3	46.2	80	10	27	28	29	71	43	43	.149	.153	.158	1.97	1.15	3.9	3.4	3.8	4.0
November	24.698	25.060	24.100	16.4	25.4	24.4	30.3	12.3	21.3	50	-3	11	16	16	80	68	68	.075	.092	.090	1.57	.80	4.2	5.3	6.9	5.8
December	24.543	24.870	24.100	16.8	25.4	25.7	32.6	10.7	21.6	48	-9	10	14	14	72	60	60	.069	.082	.084	.03	.02	3.6	4.8	5.6	5.1
Year	24.639	25.090	24.030	32.0	48.0	49.3	54.3	28.5	41.4	94	-34	24	27	28	72	50	48	.153	.170	.174	12.58	1.40	3.7	3.9	4.9	4.4

LANSING, MICH.

[ϕ=42° 44′ N.; λ=84° 26′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.191	29.770	28.500	15.5	26.0	22.2	30.5	11.6	21.0	48	-12	13	16	16	89	66	76	0.081	0.096	0.097	1.23	0.74	6.2	5.3	4.5	5.8
February	29.108	29.710	28.417	23.2	28.4	25.8	33.5	18.4	26.0	55	0	20	21	21	86	71	80	.112	.115	.117	.97	.24	7.4	8.0	5.4	7.6
March	29.104	29.670	28.190	29.4	40.4	36.5	44.4	26.4	35.4	71	14	26	29	29	85	65	74	.141	.163	.163	3.69	.97	7.4	5.9	6.3	6.2
April	29.084	29.490	28.150	42.4	54.2	48.9	58.0	35.7	46.8	80	25	36	38	38	78	57	68	.228	.252	.249	3.75	1.93	5.7	5.5	5.8	5.7
May	29.024	29.436	28.238	57.8	71.1	64.5	74.6	50.6	62.6	87	40	51	53	53	79	57	67	.383	.420	.413	3.39	1.32	4.3	6.1	5.1	5.7
June	29.049	29.316	28.630	62.8	75.7	70.5	79.5	55.4	67.4	91	44	56	57	58	79	54	65	.459	.479	.485	1.83	.82	4.0	4.9	4.5	5.1
July	29.080	29.400	28.720	65.6	78.0	72.1	81.9	57.5	69.8	90	44	58	58	58	78	53	63	.497	.504	.490	2.57	1.58	5.7	5.4	3.3	5.6
August	29.068	29.350	28.610	62.5	77.7	69.9	81.3	56.3	68.8	94	44	58	58	58	86	52	66	.497	.490	.487	2.42	.88	3.5	3.9	3.5	4.8
September	29.175	29.495	28.900	56.0	72.9	63.3	76.7	51.9	64.3	94	36	53	55	56	91	56	78	.430	.464	.471	2.93	1.37	4.3	4.6	2.7	4.5
October	29.053	29.440	28.620	44.5	59.4	50.5	62.6	40.9	51.8	87	25	41	43	42	87	57	74	.270	.296	.283	2.48	1.38	5.1	4.9	3.2	5.6
November	29.103	29.520	28.573	37.8	44.6	40.6	47.1	34.3	40.7	62	21	34	35	35	87	70	79	.208	.212	.209	1.79	.67	7.6	8.1	7.5	8.1
December	29.111	29.586	28.590	24.3	29.3	26.1	33.6	18.6	26.1	57	2	21	22	22	88	74	82	.123	.123	.119	1.03	.29	8.1	7.3	6.9	7.5
Year	29.096	29.770	28.150	43.5	54.8	49.2	58.6	38.2	48.4	94	-12	39	40	40	84	61	73	.288	.301	.299	28.08	1.93	5.8	5.8	4.9	6.0

LEWISTON, IDAHO.

[ϕ=46° 25′ N.; λ=117° 02′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.398	30.020	28.850	24.0	31.4	....	34.0	20.6	27.3	51	-7	20	22	....	82	67	....	0.109	0.120	....	0.56	0.21	6.9	7.1	....	6.8
February	29.246	29.830	28.570	28.0	36.1	....	39.3	25.9	32.6	51	6	23	24	....	79	61	....	.123	.130	....	1.10	.48	7.4	7.0	....	7.2
March	29.207	29.800	28.760	35.5	47.1	....	50.7	33.4	42.0	60	19	29	29	....	76	50	....	.161	.162	....	.80	.28	6.5	7.9	....	7.5
April	29.258	29.620	28.770	40.0	55.4	....	59.7	38.3	49.0	79	30	34	33	....	78	43	....	.193	.187	....	1.03	.28	6.3	7.0	....	6.8
May	29.246	29.640	28.840	47.8	67.3	....	72.2	45.5	58.8	90	31	37	36	....	68	34	....	.225	.222	....	.60	.16	6.0	6.0	....	5.6
June	29.115	29.450	28.830	59.0	83.4	....	88.6	57.3	73.0	100	48	43	43	....	57	27	....	.257	.284	....	.96	.45	3.1	3.6	....	3.3
July	29.157	29.380	28.730	62.4	88.1	....	94.4	61.2	77.8	109	54	43	41	....	49	20	....	.279	.262	....	.06	.04	3.5	2.5	....	2.9
August	29.107	29.300	28.750	61.8	84.1	....	90.9	60.5	75.7	104	52	47	49	....	60	32	....	.318	.347	....	1.21	.98	4.5	4.4	....	4.6
September	29.186	29.570	28.700	52.4	76.2	....	83.8	50.5	67.2	100	41	43	44	....	71	33	....	.282	.285	....	.51	.20	3.5	3.6	....	3.5
October	29.201	29.590	28.720	44.0	61.2	....	67.7	42.5	55.1	82	28	39	44	....	83	54	....	.241	.286	....	.86	.46	5.1	4.9	....	5.3
November	29.415	29.820	28.750	33.4	43.0	....	45.6	31.1	38.4	61	23	29	31	....	88	64	....	.159	.177	....	.97	.80	7.3	8.4	....	8.5
December	29.244	29.720	28.600	28.2	34.1	....	37.0	25.0	31.0	60	-1	24	25	....	83	70	....	.138	.149	....	1.33	.31	8.7	8.5	....	8.6
Year	29.232	30.020	28.570	43.0	59.0	....	63.7	41.0	52.3	109	-7	34	35	....	72	46	....	.210	.218	....	9.99	.98	5.7	5.9	....	5.9

LEXINGTON, KY.

[ϕ=38° 02′ N.; λ=84° 33′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.112	29.550	28.310	28.3	34.3	....	40.4	24.8	32.6	59	10	24	26	....	84	72	....	0.138	0.152	....	1.87	0.70	7.0	5.5	....	5.9
February	29.060	29.458	28.560	34.4	40.9	....	45.8	30.5	38.2	70	12	30	31	....	84	68	....	.185	.197	....	3.12	1.13	8.0	6.8	....	7.5
March	28.998	29.310	28.390	42.3	49.9	....	54.9	38.8	46.8	76	25	36	39	....	80	69	....	.230	.258	....	1.75	1.47	7.7	7.1	....	7.2
April	29.018	29.390	28.360	51.4	61.0	....	66.4	47.7	57.0	81	34	44	47	....	76	62	....	.309	.357	....	4.46	2.49	6.1	5.3	....	5.4
May	28.919	29.290	28.330	63.2	73.0	....	77.2	59.5	68.4	87	52	54	54	....	74	53	....	.435	.432	....	3.10	.80	5.0	5.6	....	5.1
June	28.958	29.156	28.800	70.4	78.7	....	83.5	65.6	74.6	91	60	63	61	....	78	57	....	.578	.546	....	2.44	.78	5.4	5.9	....	5.2
July	28.999	29.180	28.840	71.3	80.6	....	84.7	66.9	75.8	93	55	63	62	....	77	54	....	.593	.566	....	2.13	.61	3.9	5.5	....	4.5
August	28.966	29.200	28.700	68.8	80.7	....	84.3	65.1	74.7	93	55	60	57	....	74	46	....	.522	.480	....	2.20	1.07	3.4	6.1	....	4.1
September	29.054	29.210	28.850	65.4	77.5	....	82.2	62.9	72.6	94	47	58	58	....	78	52	....	.495	.486	....	5.99	5.45	2.6	2.8	....	2.8
October	28.976	29.330	28.600	54.3	65.3	....	70.0	51.9	61.0	87	38	43	44	....	68	48	....	.294	.302	....	1.25	.43	3.7	4.0	....	3.4
November	29.092	29.350	28.540	41.7	51.0	....	55.2	39.2	47.2	76	20	35	37	....	78	60	....	.218	.240	....	.88	.36	3.7	4.3	....	4.4
December	29.047	29.480	28.450	35.7	42.1	....	47.6	30.6	39.1	68	11	32	34	....	85	73	....	.192	.212	....	5.67	2.12	6.4	6.8	....	6.6
Year	29.017	29.550	28.310	52.3	61.2	....	66.0	48.6	57.3	94	10	45	46	....	78	60	....	.249	.252	....	40.86	5.45	5.2	5.5	....	5.2

Annual meteorological summary for the year ending December 31, 1922—Continued.

LANDER, WYO.

[H_b=5,372 ft.; h_t=60 ft.; h_r=54 ft.; h_a=68 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	2.7	SW.	17	NW.	0	4	7	5	3	6	16	10	9	2	23	4	4	6	5	7	6	0	2	24	0	31	0	0
February	4.8	SW.	38	W.	0	4	5	7	4	3	14	13	5	1	13	10	5	5	4	6	5	0	0	18	0	28	0	0
March	3.9	SW.	34	W.	0	6	4	3	4	5	14	9	14	3	12	16	3	5	3	6	5	0	0	8	0	31	0	0
April	4.9	SW.	36	SW.	0	2	3	7	5	4	15	10	12	2	9	12	9	8	6	7	7	0	1	2	0	20	0	0
May	6.6	W.	42	SW.	1	3	3	7	7	3	14	12	13	0	13	12	6	6	5	3	2	0	0	0	0	5	0	0
June	5.3	SW.	38	W.	0	3	1	3	4	1	18	23	7	0	20	9	1	3	2	0	0	0	0	0	3	1	3	0
July	5.1	W.	40	SW.	2	7	6	7	4	4	13	12	9	0	12	18	1	3	2	0	0	0	0	0	6	0	0	0
August	4.9	SW.	48	SW.	1	7	4	2	5	6	14	15	7	2	12	17	2	8	5	0	0	0	0	0	1	0	5	0
September	4.7	SW.	35	SW.	0	0	11	3	1	9	16	13	6	1	20	10	0	1	0	0	0	0	0	0	0	0	0	0
October	4.2	SW.	40	W.	1	1	6	9	5	14	13	8	4	2	17	9	5	5	5	5	5	0	0	3	0	17	0	0
November	2.6	W.	20	NW.	0	3	5	11	2	12	10	9	7	1	11	5	14	6	5	6	6	0	2	19	0	30	0	0
December	4.9	SW.	64	SW.	2	4	2	6	7	3	20	16	4	0	10	16	5	2	0	4	2	0	0	10	0	31	0	0
Year	4.6	SW.	64	SW.	7	44	57	70	51	70	177	150	97	14	172	138	55	58	42	44	38	0	5	84	10	194	8	0

LANSING, MICH.

[H_b=878 ft.; h_t=11 ft.; h_r=3 ft.; h_a=62 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	7.4	SW.	27	SW.	0	2	8	5	3	9	13	10	12	0	7	10	14	13	5	19	12	0	1	18	0	31	0	0
February	7.9	SW.	30	SW.	0	2	3	1	3	8	11	15	13	0	2	11	15	11	6	16	8	0	3	11	0	28	1	1
March	7.9	NW.	24	NW.	0	6	9	11	4	8	8	5	11	0	8	10	13	15	12	8	6	0	0	4	0	24	1	0
April	7.4	W.	32	SW.	0	5	7	7	7	6	11	12	5	0	9	10	11	9	7	2	0	3	0	0	0	12	2	4
May	4.7	SE.	21	NW.	0	3	9	7	12	10	10	4	7	0	10	10	11	13	9	0	0	0	2	0	0	0	9	0
June	4.2	SW.	20	S.	0	11	8	4	8	7	9	5	7	1	8	17	5	9	6	0	0	0	0	0	1	0	6	0
July	4.4	NW.	22	SW.	0	10	8	5	1	8	12	6	12	0	8	14	9	8	5	0	0	0	1	0	0	0	6	2
August	3.5	NW.	19	N.	0	7	8	5	9	8	9	3	10	3	9	18	4	11	9	0	0	1	1	0	4	0	12	0
September	3.4	SW.	14	NW.	0	6	10	7	3	7	8	7	7	5	13	9	8	9	7	0	0	0	1	0	3	0	5	1
October	5.1	SW.	23	NW.	0	7	3	9	4	11	9	6	12	1	8	12	11	9	8	2	0	0	1	0	0	5	1	0
November	7.3	SW.	23	NW.	0	2	2	1	7	4	19	10	15	0	2	6	22	16	10	7	3	0	0	3	0	12	1	0
December	7.4	W.	24	W.	0	1	6	1	7	13	11	15	7	1	4	6	21	10	6	15	5	0	2	13	0	31	0	0
Year	5.9	SW.	32	SW.	0	62	81	63	68	99	130	98	118	11	88	133	144	133	90	69	34	4	12	49	8	143	45	5

LEWISTON, IDAHO.

[H_b=757 ft.; h_t=40 ft.; h_r=32 ft.; h_a=48 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	3.6	E.	21	NE.	0	3	4	11	2	1	2	2	4	2	6	8	17	10	5	13	10	0	0	11	0	29	0	0
February	3.9	E.	32	W.	0	4	8	11	2	1	1	0	0	1	3	9	16	10	6	11	7	0	0	5	0	24	0	0
March	5.0	E.	34	S.	0	0	6	17	1	0	3	2	1	1	2	11	18	13	6	2	1	0	0	0	0	12	0	0
April	4.3	E.	28	NW.	0	2	5	13	2	1	1	3	1	2	6	9	15	14	6	2	1	0	0	0	0	1	0	0
May	4.2	E.	24	NW.	0	0	3	16	1	2	0	4	1	4	10	6	15	8	7	0	0	0	0	0	1	1	1	0
June	3.4	NE.	26	S.	0	2	7	15	0	0	2	1	1	2	18	6	6	4	4	0	0	1	0	0	17	0	5	0
July	3.6	E.	23	NW.	0	2	8	11	2	3	1	1	2	1	20	7	4	2	1	0	0	0	0	0	23	0	3	0
August	3.2	W.	26	NW.	0	2	3	5	8	4	1	5	1	2	13	11	7	7	4	0	0	0	0	0	19	0	6	0
September	2.6	W.	24	NW.	0	1	3	6	1	3	7	5	1	3	17	6	7	6	4	0	0	0	0	0	9	0	2	0
October	1.9	SE.	22	W.	0	1	1	8	6	2	6	3	0	4	12	6	13	6	5	0	0	0	2	0	0	2	2	0
November	2.3	E.	25	W.	0	1	2	11	4	2	4	0	3	3	3	3	24	6	4	2	1	0	0	0	0	19	0	0
December	3.7	E.	24	NW.	0	1	4	13	6	2	3	1	1	0	2	4	25	15	11	10	6	0	0	10	0	20	0	0
Year	3.5	E.	34	S.	0	19	54	137	35	21	31	27	16	25	112	86	167	101	63	40	26	1	2	26	69	108	19	0

LEXINGTON, KY.

[H_b=989 ft.; h_t=193 ft.; h_r=187 ft.; h_a=230 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	14.6	NE.	42	SW.	1	1	7	3	3	3	6	3	5	0	11	6	14	11	8	4	3	0	2	3	0	24	1	0
February	16.0	SW.	48	SW.	3	2	6	1	4	5	2	5	3	0	3	7	18	14	12	6	5	0	2	2	0	16	1	0
March	16.9	SW.	58	SW.	7	0	6	3	5	8	2	5	2	0	7	3	21	17	15	5	2	0	0	1	0	10	3	0
April	16.8	SW.	58	S.	5	1	4	2	3	4	7	4	5	0	12	5	13	9	7	0	0	1	0	0	0	0	1	0
May	11.6	SW.	40	W.	1	0	1	4	6	8	3	4	5	0	12	9	10	13	9	0	0	0	0	0	0	0	8	0
June	10.2	SW.	46	N.	1	2	4	2	6	3	9	0	4	0	10	7	13	9	7	0	0	0	0	0	3	0	6	0
July	11.6	SW.	41	SW.	2	1	7	3	3	2	12	2	1	0	11	14	6	8	7	0	0	0	0	0	3	0	5	0
August	10.6	SW.	48	NW.	2	2	3	3	2	8	4	3	5	1	14	10	7	10	7	0	0	0	0	0	6	0	5	0
September	10.7	NE.	48	E.	1	1	9	1	3	8	5	2	1	0	19	7	4	5	4	0	0	0	0	0	5	0	4	0
October	12.2	SW.	37	SW.	0	0	4	5	3	4	7	3	5	0	21	0	10	7	6	0	0	0	0	0	0	0	1	0
November	14.2	SW.	36	SE.	0	3	3	0	1	8	7	3	5	0	14	7	9	6	5	1	1	0	0	0	0	10	1	0
December	14.9	SW.	60	S.	1	2	3	4	5	3	7	1	6	0	8	8	15	15	11	3	2	0	1	2	0	19	1	0
Year	13.4	SW.	60	S.	24	15	57	31	44	64	71	35	47	1	142	83	140	124	98	19	13	1	5	13	17	79	37	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

LINCOLN, NEBR.

[ϕ=40° 49′ N.; λ=96° 45′ W.]

Month.	Pressure.			Temperature.								Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	28.846	29.450	28.230	17.7	27.6	27.3	33.9	14.4	24.2	55	−7	14	19	21	83	70	76	0.083	0.106	0.113	1.13	0.52	4.5	4.9	4.5	5.3
February	28.815	29.490	28.130	19.3	28.7	29.3	37.2	14.7	26.0	64	−3	14	18	20	79	66	68	.096	.105	.114	.66	.57	3.7	4.1	5.0	4.4
March	28.706	29.350	28.000	32.2	45.1	46.1	51.7	30.1	40.9	76	3	28	32	34	84	62	65	.160	.183	.210	1.77	1.16	5.7	5.8	5.4	5.9
April	28.679	29.103	27.860	45.3	58.5	58.2	63.1	43.3	53.2	84	32	40	43	43	84	59	62	.258	.294	.293	2.48	.86	6.2	5.6	4.9	6.4
May	28.642	28.970	28.260	56.3	70.5	69.9	74.7	53.0	63.8	89	40	50	49	48	80	52	52	.377	.372	.368	3.22	1.88	5.5	5.4	5.3	5.4
June	28.693	28.980	28.300	66.6	83.8	83.3	87.5	63.4	75.4	100	48	59	58	59	77	42	45	.504	.488	.509	2.37	.74	4.9	3.8	3.7	4.2
July	28.738	29.050	28.300	66.6	81.4	80.8	84.9	62.7	73.8	94	54	60	62	64	81	54	58	.533	.550	.597	6.23	1.67	5.4	5.8	4.0	5.1
August	28.705	28.853	28.468	69.2	86.4	85.1	90.7	66.3	78.5	104	54	62	62	62	78	46	47	.555	.569	.562	.69	.33	4.0	4.0	3.3	4.0
September	28.775	29.150	28.410	61.8	79.7	76.5	84.7	59.7	72.2	106	45	52	51	51	71	40	45	.399	.388	.390	2.12	.80	3.9	2.7	3.3	3.2
October	28.717	29.110	28.240	47.8	68.2	63.1	72.5	45.3	58.9	89	22	39	39	37	72	37	40	.248	.250	.231	1.42	1.18	3.2	3.3	2.4	3.0
November	28.785	29.140	28.101	38.8	48.7	44.9	52.7	34.3	43.5	72	21	33	34	34	80	58	67	.195	.202	.207	2.62	1.08	3.5	4.3	3.7	4.2
December	28.790	29.330	28.180	22.2	34.2	31.1	39.3	16.9	28.1	63	−3	16	17	18	78	51	58	.096	.100	.099	.06	.05	3.8	4.6	2.3	3.9
Year	28.741	29.490	27.860	45.3	59.4	58.0	64.4	42.0	53.2	106	−7	39	40	41	79	53	57	.292	.304	.308	24.77	1.88	4.5	4.5	4.0	4.6

LITTLE ROCK, ARK.

[ϕ=34° 45′ N.; λ=92° 16′ W.]

January	29.795	30.200	29.050	35.8	41.4	42.6	46.6	32.9	39.8	67	24	30	30	32	78	67	68	0.176	0.180	0.194	1.90	1.09	6.7	7.5	6.8	7.2
February	29.719	30.200	29.250	43.9	49.7	51.8	55.8	40.5	48.2	78	25	37	39	37	77	69	60	.252	.276	.249	3.95	1.33	8.4	7.2	5.2	7.0
March	29.648	29.990	29.180	46.2	54.3	55.7	60.8	43.9	52.4	77	21	40	41	42	80	64	64	.265	.276	.288	3.30	2.74	5.6	6.0	4.8	5.9
April	29.618	30.150	29.130	58.5	69.0	68.6	73.6	54.7	64.2	86	40	52	53	52	80	58	59	.414	.423	.411	3.53	1.24	6.1	5.5	5.6	5.7
May	29.541	29.840	29.220	65.2	75.7	75.3	80.1	62.9	71.5	87	55	61	62	62	86	63	65	.542	.559	.567	4.74	1.29	4.5	6.2	4.8	5.1
June	29.610	29.770	29.440	73.2	84.4	82.9	88.3	70.5	79.4	96	62	68	68	69	84	60	64	.692	.698	.709	2.21	.88	5.0	5.8	5.2	5.3
July	29.646	29.830	29.490	74.3	84.6	83.2	89.2	71.9	80.6	98	61	70	70	71	86	62	67	.731	.722	.759	2.39	1.14	6.1	5.8	6.1	5.8
August	29.607	29.770	29.450	73.2	87.0	84.9	91.6	71.4	81.5	98	63	67	66	66	82	51	55	.678	.655	.654	.83	.29	3.4	3.3	3.7	3.7
September	29.670	29.850	29.480	67.7	85.0	81.9	89.1	66.3	77.7	100	56	61	59	58	78	43	46	.545	.520	.502	.93	.69	1.5	2.7	2.1	2.2
October	29.627	29.990	29.360	55.5	72.0	69.6	76.5	53.9	65.2	90	40	49	49	49	78	46	50	.362	.386	.370	.77	.55	4.0	3.6	3.4	3.8
November	29.764	30.050	29.250	46.9	59.0	57.6	63.7	44.8	54.2	81	30	42	41	41	83	54	57	.282	.274	.271	2.07	.64	4.1	4.9	3.8	4.8
December	29.701	30.097	29.135	42.8	51.5	50.7	57.3	39.5	48.4	74	22	39	42	42	86	72	75	.265	.295	.296	3.38	1.33	5.6	6.4	5.8	6.1
Year	29.662	30.200	29.050	56.9	67.8	67.1	72.7	54.4	63.6	100	21	51	52	52	82	59	61	.434	.440	.439	35.02	2.74	5.1	5.4	4.8	5.2

LOS ANGELES, CALIF.

[ϕ=34° 03′ N.; λ=118° 15′ W.]

January	29.689	29.990	29.190	47.9	58.3	57.2	62.3	44.5	53.4	77	31	34	35	40	60	49	56	0.199	0.219	0.254	4.64	2.56	2.8	4.0	4.4	3.5
February	29.709	29.870	29.389	49.1	58.0	56.5	61.1	46.9	54.0	75	38	43	44	45	82	65	69	.287	.299	.306	3.47	1.29	5.0	5.7	5.5	5.4
March	29.706	29.969	29.250	49.7	60.2	59.1	63.6	47.5	55.6	81	39	42	43	44	78	56	61	.278	.284	.298	1.64	1.14	4.9	4.8	4.1	4.3
April	29.655	29.940	29.443	51.5	62.9	61.0	66.0	49.3	57.6	86	42	43	40	43	76	39	57	.286	.260	.291	.10	.10	5.2	4.2	3.3	3.7
May	29.594	29.770	29.350	54.8	68.7	66.5	71.8	53.3	62.6	92	43	50	52	50	87	58	60	.367	.394	.375	.65	.65	5.4	3.2	2.6	3.4
June	29.564	29.710	29.432	59.4	74.6	71.3	77.8	57.8	67.7	90	54	55	58	55	88	56	60	.446	.479	.459	T.	T.	4.8	2.5	1.6	2.8
July	29.613	29.750	29.491	61.1	76.5	72.5	78.9	60.1	69.5	88	57	59	61	60	92	59	66	.495	.531	.514	T.	T.	6.1	2.1	1.5	3.0
August	29.543	29.730	29.375	64.5	80.9	76.3	83.5	63.1	73.3	95	57	58	60	58	82	50	55	.490	.515	.492	.00	.00	4.1	1.4	1.6	1.8
September	29.539	29.680	29.422	64.1	81.5	76.0	84.3	61.9	73.1	102	57	57	58	58	81	46	56	.471	.482	.491	.00	.00	4.3	.6	.6	1.5
October	29.599	29.750	29.445	58.0	72.6	67.2	75.1	55.8	65.4	90	50	48	47	50	74	46	58	.353	.342	.372	.24	.24	4.2	2.2	1.3	2.3
November	29.688	29.920	29.270	53.6	66.6	61.8	68.8	50.8	59.8	82	43	36	37	41	56	38	51	.220	.228	.267	1.44	1.26	1.8	2.3	2.2	2.2
December	29.738	29.970	29.550	53.3	62.0	60.2	65.5	51.1	58.3	80	44	45	48	49	78	64	69	.313	.337	.352	3.09	1.24	4.7	5.4	4.7	5.0
Year	29.636	29.990	29.190	55.6	68.6	65.5	71.6	53.5	62.5	102	31	48	49	50	78	53	60	.350	.364	.373	15.27	2.56	4.4	3.2	2.8	3.2

LOUISVILLE, KY.

[ϕ=38° 15′ N.; λ=85° 45′ W.]

January	29.636	30.130	28.880	29.3	36.7	36.0	41.2	25.6	33.4	63	12	23	25	26	76	62	67	0.132	0.143	0.151	1.59	0.52	6.0	4.6	4.6	5.1
February	29.569	30.010	29.030	35.9	43.1	41.6	47.1	32.0	39.6	71	14	29	31	32	76	62	67	.171	.200	.200	2.66	.71	5.8	5.7	6.6	6.1
March	29.500	29.825	28.850	44.7	52.2	50.0	56.9	40.6	48.8	76	25	37	39	40	75	63	69	.233	.257	.262	6.46	1.57	7.0	6.6	6.4	6.6
April	29.493	29.920	28.800	53.4	64.4	62.7	69.2	49.4	59.3	84	35	43	47	50	76	55	64	.326	.355	.377	6.06	3.01	5.5	5.0	5.0	5.3
May	29.393	29.760	28.840	64.7	75.1	71.8	78.1	60.5	69.2	88	50	55	54	56	71	51	56	.443	.435	.463	2.17	.75	4.3	4.9	5.3	4.7
June	29.431	29.656	29.260	71.2	81.7	79.0	84.9	66.9	75.9	93	58	63	63	63	75	54	61	.576	.578	.593	4.00	2.73	4.5	5.4	4.6	4.8
July	29.469	29.710	29.290	72.0	82.3	80.1	86.0	68.1	77.0	94	57	64	63	63	76	54	59	.599	.590	.596	7.79	3.74	4.2	4.6	4.0	4.3
August	29.441	29.590	29.090	69.3	82.8	79.3	86.0	66.9	76.4	96	57	61	59	60	73	46	53	.539	.505	.532	1.62	.75	3.5	3.9	3.9	4.0
September	29.531	29.730	29.310	65.2	80.9	77.0	84.4	62.7	73.6	95	48	58	58	58	78	47	54	.498	.485	.495	1.39	1.12	2.4	2.2	1.7	2.6
October	29.464	29.820	29.080	53.0	68.1	64.8	71.7	51.8	61.5	89	38	45	46	46	77	48	53	.320	.324	.324	2.24	1.10	3.5	3.4	2.6	3.4
November	29.589	29.880	29.000	43.4	53.1	51.1	56.2	40.7	48.4	75	23	36	37	37	74	56	59	.222	.245	.223	1.53	.98	3.8	4.3	3.4	4.3
December	29.546	30.090	28.890	36.2	42.9	42.1	47.5	30.8	39.2	68	11	30	32	31	77	65	65	.185	.198	.188	4.96	2.03	6.1	6.4	6.3	6.6
Year	29.505	30.130	28.800	53.2	63.6	61.3	67.4	49.6	58.5	96	11	46	46	47	75	55	61	.354	.360	.366	42.78	3.74	4.7	4.8	4.5	4.8

Annual meteorological summary for the year ending December 31, 1922—Continued.

LINCOLN, NEBR.

[H_b=1,189 ft.; h_1= 11 ft.; h_2=4 ft.; h_a=84 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.	*	*Mi.*																									
January	11.0	S.	33	NW.	0	11	4	1	11	16	5	5	8	1	13	5	13	5	5	8	4	0	1	12	0	30	1	0
February	11.4	N.	50	NW.	1	16	7	2	6	7	4	3	11	0	13	8	7	3	2	7	1	0	1	11	0	26	1	0
March	12.2	N.	38	NW.	0	14	8	3	12	13	0	4	8	0	10	9	12	5	5	3	3	0	1	1	0	18	1	0
April	11.7	SE.	46	N.	2	9	12	7	14	4	5	4	5	0	10	4	16	13	9	2	0	2	0	0	0	1	2	0
May	10.6	N.	39	SW.	0	13	10	8	4	12	3	7	5	0	6	16	9	14	11	0	0	1	0	0	0	0	2	0
June	9.1	S.	42	NW.	1	4	8	9	7	22	3	3	4	0	11	16	3	13	9	0	0	2	0	0	12	0	12	0
July	8.0	S.	52	N.	2	9	11	3	13	17	4	2	3	0	9	15	7	15	11	0	0	0	0	0	8	0	8	0
August	7.7	S.	36	N.	0	3	10	6	15	20	2	2	4	0	14	12	5	5	4	0	0	0	0	0	20	0	3	0
September	9.9	S.	29	SW.	0	7	9	5	15	21	1	1	1	0	18	6	6	11	10	0	0	0	0	0	10	0	6	0
October	9.6	S.	36	NW.	0	12	3	0	10	20	7	4	5	1	20	7	4	4	4	0	0	0	0	0	0	5	1	0
November	12.1	S.	40	SW.	3	6	6	1	7	14	4	10	11	1	13	8	9	8	7	0	0	0	0	0	0	13	2	0
December	10.0	SE.	34	S.	0	12	4	4	14	11	5	7	5	0	15	11	5	3	0	2	1	0	0	12	0	28	0	0
Year	10.3	S.	52	N.	9	116	92	49	128	177	43	52	70	3	152	117	96	99	77	22	9	5	3	36	50	121	39	0

LITTLE ROCK, ARK.

[H_b=357 ft.; h_1=136 ft.; h_2=129 ft.; h_a=144 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	8.5	N.	41	NW.	2	17	8	8	4	10	2	6	7	0	7	4	20	9	5	3	0	0	1	1	0	18	0	0
February	10.7	S.	33	NW.	0	18	6	4	2	20	1	3	2	0	7	3	18	9	8	3	1	0	0	0	0	7	2	0
March	10.9	S.	45	NW.	1	10	5	4	11	13	2	11	6	0	9	7	15	12	10	0	0	0	0	1	0	4	8	0
April	11.1	S.	42	SW.	3	5	7	10	10	22	2	3	1	0	10	8	12	10	9	0	0	0	0	0	0	0	6	0
May	7.7	S.	55	W.	1	6	4	9	7	17	7	3	7	2	10	15	6	10	10	0	0	1	0	0	0	0	10	0
June	6.4	S.	32	S.	0	8	4	7	3	23	7	2	4	2	11	8	11	7	6	0	0	0	0	0	14	0	8	0
July	7.7	S.	33	S.	0	4	4	5	3	30	6	6	3	1	7	13	11	8	6	0	0	0	0	0	14	0	8	0
August	6.3	E.	29	W.	0	5	4	19	3	20	2	2	7	0	15	11	5	5	4	0	0	0	0	0	22	0	4	0
September	6.1	S.	34	SE.	0	13	6	8	5	19	2	1	4	2	21	8	1	4	3	0	0	0	0	0	14	0	3	0
October	6.7	S.	30	NW.	0	10	2	13	11	8	3	4	10	1	16	8	7	4	4	0	0	0	0	0	1	0	1	0
November	7.6	N.	41	NW.	1	12	2	11	10	7	3	5	8	2	13	7	10	9	9	0	0	0	0	0	0	1	2	0
December	9.0	S.	29	N.	0	14	5	9	2	20	5	1	6	0	9	8	14	11	7	0	0	0	2	0	0	6	3	0
Year	8.2	S.	55	W.	8	122	57	107	71	209	42	47	65	10	135	100	130	98	81	6	1	1	3	2	65	36	55	0

LOS ANGELES, CALIF.

[H_b=338 ft.; h_1=159 ft.; h_2=151 ft.; h_a=191 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	6.3	NE.	33	E.	0	4	19	8	3	0	14	7	7	0	18	8	5	6	6	0	0	1	1	0	0	1	0	0
February	6.3	E.	27	S.	0	1	18	4	5	4	15	6	3	0	11	7	10	8	7	0	0	0	2	0	0	0	0	0
March	6.2	SW.	29	S.	0	3	12	7	2	2	20	10	6	0	15	7	9	5	3	0	0	1	1	0	0	0	1	0
April	7.0	SW.	34	NW.	0	0	11	4	7	2	24	7	5	0	14	12	4	1	1	0	0	0	0	0	0	0	0	0
May	5.5	SW.	23	SW.	0	1	6	7	9	5	19	12	3	0	17	9	5	2	2	0	0	0	1	0	1	0	0	0
June	5.2	SW.	19	SW.	0	2	4	8	6	2	26	7	5	0	20	8	2	0	0	0	0	0	2	0	1	0	0	0
July	5.1	SW.	22	NW.	0	0	1	3	7	9	21	19	2	0	21	8	2	0	0	0	0	0	3	0	0	0	1	0
August	4.8	SW.	15	SW.	0	2	3	10	3	3	18	20	3	0	25	5	1	0	0	0	0	0	1	0	3	0	0	0
September	4.8	SW.	14	W.	0	2	2	7	8	2	14	20	5	0	24	6	0	0	0	0	0	0	2	0	4	0	0	0
October	5.1	SW.	24	NW.	0	6	13	7	1	1	13	19	2	0	22	8	1	1	1	0	0	0	1	0	2	0	0	0
November	5.8	NE.	26	SW.	0	7	16	5	2	1	14	15	0	0	22	3	5	5	3	0	0	0	1	0	0	0	0	0
December	5.3	E.	24	NW.	0	7	14	7	2	3	15	12	2	0	13	5	13	14	10	0	0	0	3	0	0	0	0	0
Year	5.6	SW.	34	NW.	0	35	119	77	55	34	213	154	43	0	222	86	57	42	33	0	0	2	18	0	11	1	2	0

LOUISVILLE, KY.

[H_b=525 ft.; h_1=219 ft.; h_2=214 ft.; h_a=255 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	12.7	NE.	50	W.	2	11	12	6	4	10	6	6	7	0	13	7	11	9	7	3	1	0	1	7	0	24	1	0
February	14.7	S.	44	W.	5	7	10	3	4	12	7	3	10	0	8	10	10	10	9	1	0	0	1	2	0	15	3	0
March	14.4	S.	69	SW.	5	5	6	8	8	12	7	9	7	0	6	10	15	17	15	4	2	0	0	1	0	7	5	0
April	13.8	S.	54	S.	4	5	10	9	3	20	5	3	5	0	11	9	10	8	7	0	0	1	1	0	0	0	3	0
May	8.7	S.	36	S.	0	6	8	6	10	10	10	9	3	0	12	11	8	10	8	0	0	0	0	0	0	0	6	0
June	9.0	S.	59	NW.	1	7	8	2	2	21	9	7	3	1	9	16	5	9	7	0	0	0	0	0	4	0	10	0
July	9.0	S.	40	NE.	1	7	11	5	3	15	12	3	6	0	13	12	6	8	8	0	0	0	0	0	4	0	9	0
August	8.4	NE.	41	SW.	1	8	17	3	7	15	6	1	5	0	15	13	3	5	5	0	0	1	0	0	8	0	9	0
September	8.0	S.	30	N.	0	10	16	3	6	15	4	3	2	1	23	3	4	5	5	0	0	0	1	0	7	0	5	0
October	9.3	S.	33	S.	0	11	15	2	3	20	3	3	5	0	20	4	7	7	6	0	0	0	0	0	0	0	2	0
November	11.6	S.	34	SW.	0	5	6	3	3	21	8	6	8	0	16	8	6	5	5	2	1	0	0	0	0	7	0	0
December	11.8	S.	39	S.	0	5	11	8	6	18	3	4	9	0	8	6	17	13	10	4	1	0	1	2	0	20	1	0
Year	11.0	S.	69	SW.	19	87	130	58	59	187	80	57	70	2	154	109	102	106	92	14	5	2	5	12	23	73	54	0

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1922—Continued.

LUDINGTON, MICH.

[ϕ=43° 57′ N.; λ=86° 27′ W.]

Month.	Pressure.			Temperature.								Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.433	30.050	28.610	19.9	23.2	23.7	29.2	15.7	22.4	41	1	16	17	18	83	74	76	0.091	0.093	0.100	0.56	0.37	6.2	6.3	6.1	6.5
February	29.350	30.010	28.580	21.4	24.4	24.5	30.2	17.9	24.0	43	6	17	18	20	83	77	80	.098	.104	.110	5.11	2.64	7.4	6.9	6.3	7.0
March	29.367	29.910	28.640	30.6	35.7	33.6	39.2	27.7	33.4	56	11	26	29	28	82	75	78	.142	.161	.152	3.36	1.31	5.5	4.7	5.9	5.3
April	29.331	29.820	28.330	40.5	43.9	42.3	49.4	34.9	42.2	70	27	36	37	36	83	78	79	.215	.226	.215	2.39	.91	5.4	5.3	5.2	5.2
May	29.260	29.675	28.590	56.6	60.8	62.3	67.7	49.5	58.6	81	43	51	51	52	84	74	72	.384	.381	.390	3.02	.78	5.1	4.2	3.6	4.1
June	29.257	29.640	28.840	59.6	65.6	65.0	70.2	54.2	62.2	83	42	53	54	54	81	67	69	.415	.427	.428	3.77	2.83	4.4	3.0	3.6	3.6
July	29.314	29.660	28.830	63.5	66.8	68.3	73.0	57.8	65.4	86	46	57	58	58	82	75	71	.476	.487	.480	3.73	1.43	4.9	4.1	3.6	4.2
August	29.307	29.550	28.880	64.0	70.4	69.1	73.7	58.6	66.2	82	45	58	59	58	80	68	69	.485	.514	.495	1.93	1.77	3.1	2.9	3.0	2.9
September	29.410	29.810	29.080	58.8	65.5	63.7	69.2	54.4	61.8	88	39	54	56	56	85	73	76	.440	.470	.466	4.67	1.36	4.0	3.6	3.3	3.9
October	29.286	29.730	28.820	47.2	53.9	51.1	57.2	43.2	50.2	78	26	42	44	44	83	69	76	.287	.301	.302	2.58	1.56	5.3	3.8	4.7	4.7
November	29.328	29.800	28.850	40.6	42.3	42.6	46.5	37.0	41.8	62	26	35	35	36	81	76	76	.213	.212	.219	2.02	.47	8.6	8.5	8.2	8.4
December	29.349	29.850	28.830	25.0	26.7	26.5	31.7	19.9	25.8	50	4	21	21	21	84	78	79	.117	.116	.117	1.07	.31	8.5	7.6	7.1	7.9
Year	29.335	30.050	28.330	44.0	48.3	47.7	53.1	39.2	46.2	88	1	39	40	40	83	74	75	.280	.291	.291	34.21	2.83	5.7	5.1	5.0	5.3

LYNCHBURG, VA.

[ϕ=37° 25′ N.; λ=79° 09′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.425	29.869	28.370	30.7	37.2	37.0	43.5	26.7	35.1	62	8	22	26	29	69	63	72	0.129	0.149	0.160	3.90	1.50	6.8	6.3	4.7	6.0
February	29.384	29.755	28.850	37.0	44.1	43.5	51.2	32.9	42.0	72	10	30	35	36	76	69	75	.179	.217	.223	3.32	.73	7.3	6.3	6.0	6.4
March	29.364	29.850	28.730	42.8	52.4	51.7	59.2	38.5	48.8	79	21	36	40	41	76	64	68	.226	.262	.271	7.30	2.84	5.6	6.0	4.9	5.5
April	29.355	29.736	28.650	52.0	62.2	60.8	69.1	46.5	57.8	89	32	42	45	46	70	56	62	.284	.322	.335	1.53	.48	5.0	5.0	3.9	4.5
May	29.261	29.720	28.670	62.9	73.2	69.3	78.5	55.9	67.2	89	41	55	56	57	76	56	67	.440	.450	.474	4.37	1.22	4.6	4.6	5.1	5.6
June	29.259	29.469	29.010	70.6	80.0	76.3	84.8	64.8	74.8	93	55	63	62	63	77	56	66	.576	.563	.589	3.37	1.33	5.3	4.8	5.1	5.6
July	29.310	29.469	29.060	72.3	81.4	76.5	85.9	66.8	76.4	94	58	66	65	67	82	59	73	.652	.620	.659	2.25	.89	4.8	5.2	4.8	5.8
August	29.283	29.562	28.960	67.4	77.7	73.9	82.9	62.8	72.8	90	48	61	60	62	80	58	68	.542	.536	.566	1.18	.42	4.5	5.0	5.1	5.6
September	29.390	29.687	29.110	63.1	73.1	71.2	83.0	58.8	70.9	96	46	58	57	60	83	49	68	.496	.473	.530	1.42	.99	4.2	3.2	2.1	4.1
October	29.299	29.700	28.920	51.5	66.9	61.5	73.1	48.0	60.6	89	35	46	46	48	81	50	62	.323	.334	.348	4.19	2.20	3.4	2.7	1.9	3.8
November	29.387	29.730	28.860	41.4	54.4	51.1	59.9	36.9	48.4	73	24	33	35	37	73	49	60	.201	.221	.238	.19	.16	3.0	3.1	2.7	4.0
December	29.390	29.822	28.630	36.4	45.5	43.5	52.0	33.0	42.5	72	16	30	34	34	76	67	70	.177	.207	.203	3.42	.84	6.5	6.2	4.8	7.0
Year	29.342	29.869	28.370	52.3	62.8	59.7	68.6	47.6	58.1	96	8	45	47	48	77	58	68	.352	.363	.384	36.64	2.84	5.1	4.9	4.3	5.3

MACON, GA.

[ϕ=32° 50′ N.; λ=83° 38′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.790	30.080	28.960	41.2	49.2	48.2	54.8	38.4	46.6	76	25	36	37	38	80	65	69	0.228	0.241	0.250	3.16	1.09	6.8	6.9	5.9	6.8
February	29.741	30.170	29.160	49.3	59.3	57.8	64.3	46.5	55.4	80	23	45	43	46	85	58	66	.330	.315	.338	5.78	2.66	7.6	6.5	4.9	6.9
March	29.720	30.000	29.230	51.1	62.3	60.7	66.9	47.5	57.2	82	29	46	47	47	83	60	63	.334	.349	.349	10.70	6.37	5.2	6.0	5.0	5.6
April	29.716	30.007	29.320	60.8	72.8	70.2	77.6	55.4	66.5	90	42	54	50	50	79	49	52	.438	.404	.386	1.71	1.50	5.4	5.0	3.6	5.2
May	29.575	29.920	29.190	67.7	76.6	73.0	81.0	63.1	72.0	91	53	61	60	61	80	59	70	.546	.522	.549	5.89	1.64	6.7	6.7	6.7	6.6
June	29.617	29.810	29.380	75.2	85.1	81.0	88.8	69.5	79.2	96	64	68	66	68	79	53	66	.690	.643	.684	5.46	2.74	4.5	6.3	5.9	5.5
July	29.675	29.850	29.480	76.4	85.6	79.9	89.7	71.2	80.4	96	63	70	68	70	82	58	73	.742	.697	.741	7.14	3.43	5.2	6.5	6.9	6.2
August	29.611	29.810	29.430	73.4	83.5	78.7	87.4	69.0	78.2	96	62	68	66	68	82	56	70	.677	.638	.680	2.52	.87	6.1	6.2	5.1	5.9
September	29.668	29.850	29.480	69.4	83.9	78.4	87.4	65.8	76.6	98	53	64	60	62	82	46	59	.600	.540	.577	.57	.37	3.1	4.1	2.7	3.6
October	29.623	29.880	29.320	59.0	72.4	67.7	75.8	56.5	66.2	87	43	53	54	55	82	55	66	.432	.443	.455	4.73	2.89	4.7	5.6	5.0	5.3
November	29.780	30.080	29.150	48.4	63.4	59.0	67.3	46.0	56.6	79	27	43	47	45	82	55	62	.302	.348	.337	.54	.33	5.2	4.9	4.2	5.3
December	29.757	30.070	29.200	49.2	57.6	55.1	62.5	45.4	54.0	76	32	46	48	49	90	73	80	.335	.358	.364	5.48	1.14	7.5	7.5	5.5	7.4
Year	29.689	30.170	28.960	60.1	71.0	67.5	75.3	56.2	65.7	98	23	54	54	55	82	57	66	.471	.458	.476	53.68	6.37	5.7	6.0	5.1	5.9

MADISON, WIS.

[ϕ=43° 05′ N.; λ=89° 23′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.100	29.730	28.390	11.6	19.3	19.8	25.9	8.1	17.0	41	−12	9	12	14	87	73	78	0.068	0.086	0.088	0.63	0.57	4.4	4.5	4.0	4.5
February	29.016	29.700	28.240	16.2	22.6	22.6	29.5	11.1	20.3	47	−5	13	16	17	86	74	77	.085	.095	.098	3.90	1.71	6.1	4.9	5.5	5.2
March	29.005	29.560	28.290	29.9	36.6	35.6	40.4	27.8	34.1	64	7	25	28	29	83	71	77	.142	.157	.161	2.01	.87	6.3	7.2	6.8	7.0
April	28.975	29.450	28.020	41.0	48.5	49.1	54.1	37.5	45.8	70	28	36	37	40	82	67	72	.216	.226	.233	3.39	1.22	6.0	7.3	6.6	7.1
May	28.911	29.350	28.360	57.9	68.1	66.0	72.1	55.0	63.6	86	47	51	52	52	80	58	64	.385	.393	.403	4.16	1.53	6.3	7.0	6.1	6.4
June	28.964	29.320	28.560	63.6	72.6	72.6	77.6	59.6	68.6	91	48	56	57	58	78	59	61	.463	.471	.488	3.17	2.31	4.8	6.0	4.8	5.2
July	28.990	29.285	28.540	64.9	73.5	72.4	77.5	61.7	69.6	90	55	58	61	60	80	67	66	.494	.531	.528	6.09	3.22	5.6	7.4	6.4	6.5
August	28.970	29.180	28.570	65.0	75.9	74.0	80.3	62.0	71.2	92	51	58	61	61	79	61	65	.496	.554	.550	1.33	.55	3.8	5.1	5.0	5.1
September	29.069	29.450	28.680	58.4	70.8	67.4	74.0	56.2	65.1	97	45	53	53	54	83	56	64	.421	.424	.433	2.34	1.20	3.7	4.9	4.0	4.5
October	28.957	29.303	28.581	46.5	59.1	55.2	63.1	44.7	53.9	86	30	40	40	41	80	52	61	.264	.268	.272	.65	.49	5.0	5.3	4.5	5.0
November	28.995	29.390	28.540	37.3	42.3	42.0	46.8	35.2	41.0	62	17	33	35	36	85	75	78	.197	.211	.220	3.14	.80	8.7	8.1	6.7	7.8
December	29.010	29.540	28.544	18.5	23.1	23.2	28.7	14.4	21.6	46	−11	15	18	18	84	78	81	.094	.105	.110	1.23	.51	5.8	6.6	6.0	6.4
Year	28.997	29.730	28.020	42.6	51.0	50.0	55.8	39.4	47.6	97	−12	37	39	40	82	66	70	.277	.295	.300	32.04	3.22	5.5	6.2	5.5	5.9

Annual meteorological summary for the year ending December 31, 1922—Continued.

LUDINGTON, MICH.

[H_b=637 ft.; h_1=60 ft.; h_r=53 ft.; h_a=66 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.	*	*Mi.*																									
January	12.7	W.	54	W.	3	5	6	11	8	4	4	14	10	0	7	9	15	10	3	17	10	0	0	20	0	31	0	0
February	12.5	W.	42	SW.	3	8	2	8	4	6	5	12	10	1	4	8	16	12	9	17	9	1	1	16	0	28	3	1
March	11.9	N.	39	S.	0	12	10	10	9	11	2	4	4	0	13	6	12	11	10	9	8	0	1	4	0	25	1	0
April	10.9	S.	42	S.	2	14	3	7	8	15	3	4	6	0	12	6	12	14	10	5	4	0	2	0	0	11	4	0
May	7.7	S.	26	S.	0	9	6	10	11	17	5	2	2	0	16	9	6	14	10	0	0	1	1	0	0	0	8	1
June	8.1	S.	31	S.	0	12	2	6	4	18	5	4	9	0	18	10	2	8	6	0	0	0	1	0	0	0	6	0
July	7.9	S.	38	SW.	0	10	3	7	5	19	10	5	3	0	16	10	5	12	8	0	0	0	1	0	0	0	7	1
August	7.7	S.	27	SW.	0	12	7	7	9	17	4	2	4	0	21	7	3	11	9	0	0	0	0	0	0	0	9	0
September	8.0	S.	36	SW.	0	11	5	15	5	18	2	2	2	0	17	6	7	12	10	0	0	0	0	0	0	0	5	1
October	11.1	S.	39	W.	0	8	9	8	8	14	2	6	7	0	11	13	7	9	6	2	0	0	0	0	0	2	1	0
November	14.4	SW.	39	S.	0	9	2	3	7	4	14	10	11	0	2	3	25	20	14	8	5	0	1	1	0	8	0	0
December	13.6	W.	46	W.	3	5	6	5	11	5	6	18	6	0	2	8	21	12	9	17	8	0	0	14	0	28	0	0
Year	10.5	S.	54	W.	11	115	61	97	89	148	62	83	74	1	139	95	131	145	104	75	44	2	11	55	0	133	44	4

LYNCHBURG, VA.

[H_b=681 ft.; h_1=153 ft.; h_r=146 ft.; h_a=188 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	8.5	NW.	30	NW.	0	16	10	10	2	1	13	8	8	0	8	9	14	12	9	6	4	0	0	6	0	21	0	0
February	7.0	W.	33	NW.	0	6	7	9	0	2	8	14	10	0	5	11	12	16	12	3	3	0	2	2	0	11	0	0
March	8.4	SW.	38	N.	0	8	9	9	1	5	14	5	11	0	11	5	15	15	13	2	1	0	1	0	0	6	1	0
April	8.0	SW.	38	SW.	0	6	10	8	6	4	9	8	9	0	12	12	6	12	6	0	0	1	0	0	0	1	1	0
May	6.5	E.	36	E.	0	12	9	5	5	6	12	7	6	0	10	12	9	12	11	0	0	1	1	0	0	0	6	0
June	6.3	W.	35	SW.	0	4	6	13	3	2	10	12	10	0	10	10	10	16	11	0	0	0	2	0	4	0	8	0
July	5.6	W.	35	NE.	0	7	12	10	1	4	7	16	5	0	9	12	10	13	7	0	0	0	1	0	8	0	8	0
August	5.7	W.	24	NW.	0	7	12	5	2	7	7	12	10	0	8	17	6	10	6	0	0	0	1	0	1	0	7	0
September	4.6	E.	28	N.	0	8	5	17	7	8	1	6	7	1	17	8	5	5	5	0	0	0	7	0	5	0	2	0
October	5.9	W.	31	NW.	0	9	7	5	3	3	9	17	8	1	18	4	9	8	7	0	0	0	4	0	0	0	0	0
November	7.5	W.	34	N.	0	9	0	1	2	3	9	18	17	1	16	8	6	3	1	1	1	0	2	0	0	12	0	0
December	6.1	W.	36	NW.	0	5	10	13	1	3	7	15	8	0	5	10	16	14	11	2	0	0	0	0	0	15	0	0
Year	6.7	W.	38	SW.	0	91	97	105	33	48	106	138	109	3	129	118	118	136	99	14	9	2	21	8	18	66	33	0

MACON, GA.

[H_b=370 ft.; h_1=78 ft.; h_r=71 ft.; h_a=87 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	7.7	NE.	29	NW.	0	9	17	4	1	13	6	5	7	0	8	6	17	12	11	0	0	0	0	0	0	11	1	0
February	7.2	S.	29	SE.	0	8	4	7	4	13	6	2	12	0	5	9	14	10	7	1	0	0	1	0	0	5	8	0
March	7.4	S.	31	S.	0	1	8	7	6	17	4	4	15	0	11	3	17	10	10	0	0	0	2	0	0	1	6	0
April	7.0	S.	23	SW.	0	5	11	5	2	19	9	3	6	0	13	5	12	5	4	0	0	0	0	0	0	0	2	0
May	6.2	E.	29	NW.	0	10	7	14	4	6	8	6	6	1	5	12	14	14	12	0	0	1	1	0	2	0	9	0
June	4.9	S.	29	NW.	0	4	8	5	6	16	7	5	9	6	7	14	9	11	9	0	0	0	0	0	15	0	16	0
July	4.7	S.	34	NW.	0	7	3	7	2	14	14	8	7	0	3	20	8	15	13	0	0	0	0	0	18	0	22	0
August	4.9	NE.	24	SW.	0	2	13	14	6	4	8	7	7	1	6	15	10	10	9	0	0	0	0	0	11	0	10	0
September	5.6	E.	26	NW.	0	12	18	13	4	6	0	2	5	0	17	9	4	2	2	0	0	0	0	0	8	0	4	0
October	5.9	NE.	20	NW.	0	15	18	11	1	3	3	6	5	0	12	8	11	9	6	0	0	0	0	0	0	0	3	0
November	5.7	E.	26	NW.	0	11	12	10	2	4	5	4	11	1	9	12	9	5	4	1	1	0	1	0	0	2	0	0
December	6.3	SW.	24	NW.	0	7	11	7	1	11	12	7	6	0	5	4	22	13	11	0	0	0	8	0	0	1	1	0
Year	6.1	NE.	34	NW.	0	91	130	104	39	126	82	59	96	3	101	117	147	116	98	2	1	1	13	0	54	20	82	0

MADISON, WIS.

[H_b=974 ft.; h_1=70 ft.; h_r=62 ft.; h_a=78 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	10.0	NW.	35	SW.	0	6	8	4	7	9	11	7	9	1	13	10	8	3	2	10	3	0	0	19	0	31	0	0
February	10.7	NW.	45	SW.	2	6	5	2	7	6	7	7	16	0	10	9	9	9	8	12	5	1	1	16	0	28	3	0
March	11.8	N.	39	SW.	0	11	11	6	12	7	4	2	9	0	7	4	20	9	8	9	4	0	1	6	0	25	1	0
April	10.3	S.	48	SW.	1	4	12	6	11	6	7	5	7	2	5	9	16	14	10	3	0	1	2	0	0	5	5	0
May	7.8	S.	31	S.	0	1	11	3	13	10	9	7	8	0	6	11	14	15	12	0	0	1	1	0	0	0	12	0
June	6.9	SW.	30	N.	0	4	8	2	9	10	11	6	10	0	10	11	9	8	7	0	0	1	0	0	1	0	8	0
July	7.1	NW.	35	SE.	0	4	6	1	6	11	8	7	19	0	6	11	14	12	11	0	0	0	0	0	1	0	9	0
August	6.7	SW.	33	NE.	0	8	6	2	6	13	13	5	9	0	10	14	7	5	5	0	0	1	0	0	2	0	7	0
September	7.4	SW.	25	NW.	0	3	11	5	6	16	9	1	9	0	15	7	8	9	9	0	0	0	0	0	5	0	5	0
October	9.3	SW.	33	S.	0	8	4	5	7	11	14	4	9	0	12	8	11	4	3	0	0	0	0	0	0	1	0	0
November	11.5	SW.	32	SW.	0	2	3	2	7	7	17	10	12	0	3	6	21	11	9	3	0	0	0	2	0	13	1	0
December	10.8	W.	31	W.	0	2	6	4	8	12	4	22	4	0	9	4	18	10	7	12	8	0	0	16	0	30	0	0
Year	9.2	NW.	48	SW.	3	59	91	42	99	118	114	83	121	3	106	104	155	109	91	49	20	5	5	59	9	133	51	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

MANTEO, N. C.

[ϕ=35° 54′ N.; λ=75° 40′ W.]

Month.	Pressure.			Temperature.								Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January							49.7	32.3	41.0	73	18										4.90	1.44				
February							55.0	36.0	45.4	74	16										5.14	.94				
March							59.9	41.5	50.7	82	31										6.26	2.14				
April							71.0	51.9	61.4	90	30										1.54	.64				
May							75.5	55.4	65.4	84	42										3.36	.94				
June							83.4	64.7	74.0	94	58										6.46	1.04				
July							86.8	68.6	77.7	92	62										11.72	2.38				
August							84.5	68.3	76.4	90	59										11.82	2.38				
September							79.5	66.3	72.9	88	56										4.36	2.92				
October							73.4	53.4	63.4	84	38										6.86	3.04				
November							65.1	40.4	52.8	79	28										.04	.04				
December							58.2	39.1	48.6	73	29										3.80	1.96				
Year							70.2	51.5	60.8	94	16										66.26	3.04				

MARQUETTE, MICH.

[ϕ=46° 34′ N.; λ=87° 24′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.301	29.950	28.508	13.5	19.8	17.7	24.3	10.0	17.2	38	−13	8	12	13	79	69	80	0.065	0.076	0.080	1.94	0.92	7.3	6.2	5.1	6.5
February	29.249	29.890	28.300	13.1	19.0	18.1	24.2	9.8	17.0	38	−6	8	12	13	78	74	79	.066	.081	.082	3.00	1.09	5.8	6.9	6.2	6.6
March	29.285	29.780	28.320	25.8	33.4	30.9	37.1	22.6	29.8	59	6	20	24	24	78	69	76	.112	.131	.129	2.72	.77	5.8	5.1	4.4	5.9
April	29.252	29.710	28.460	36.3	39.4	38.4	44.5	31.3	37.9	69	24	30	31	31	77	74	77	.165	.176	.177	3.79	1.37	7.4	6.9	7.0	6.9
May	29.191	29.650	28.676	54.3	57.2	55.5	63.5	46.3	54.9	83	40	44	46	47	72	70	74	.301	.320	.326	3.27	.97	5.1	6.4	5.8	5.8
June	29.188	29.660	28.720	58.8	64.3	61.2	69.5	50.5	60.0	94	38	48	49	50	71	62	71	.349	.354	.376	4.50	1.90	5.4	6.7	5.5	6.0
July	29.209	29.530	28.820	61.8	64.7	63.6	70.7	55.2	63.0	85	44	54	54	54	78	71	74	.430	.424	.431	3.49	.93	6.0	7.4	4.9	6.2
August	29.216	29.465	28.740	62.9	69.3	65.5	72.6	57.1	64.8	93	46	55	56	57	75	65	74	.436	.463	.468	2.02	1.32	5.0	5.7	5.4	5.4
September	29.299	29.790	28.940	57.1	65.3	61.0	70.1	53.0	61.6	88	39	50	53	52	78	66	75	.376	.414	.404	3.26	1.64	9.3	6.0	7.6	5.9
October	29.197	29.611	28.560	42.6	49.4	45.2	54.6	38.6	46.6	89	26	36	39	39	78	69	78	.224	.251	.250	1.74	.51	6.9	7.5	6.1	7.2
November	29.215	29.810	28.440	36.1	38.7	37.3	42.4	32.7	37.6	61	21	30	31	32	79	73	80	.177	.178	.185	2.84	.57	9.6	9.1	8.1	9.1
December	29.214	29.720	28.610	16.3	20.6	20.3	26.0	12.2	19.1	43	−10	12	14	16	83	75	81	.081	.088	.094	1.14	.27	7.2	8.0	7.6	7.8
Year	29.235	29.950	28.300	39.9	45.1	42.9	50.0	34.9	42.5	94	−13	33	35	36	77	70	77	.232	.246	.250	33.71	1.90	6.7	6.9	6.1	6.6

MEMPHIS, TENN.

[ϕ=35° 09′ N.; λ=90° 03′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.791	30.170	28.980	35.8	41.5	42.5	46.9	33.1	40.0	69	22	30	33	34	79	73	72	0.176	0.203	0.209	2.26	1.21	6.6	7.7	6.6	7.6
February	29.725	30.180	29.290	43.1	48.6	49.7	53.5	40.8	47.2	78	22	37	39	40	78	70	72	.248	.270	.278	3.30	1.03	6.5	8.0	5.2	7.4
March	29.659	30.020	29.192	48.7	54.2	55.3	60.0	45.8	52.9	74	25	41	42	43	76	65	66	.278	.280	.293	8.24	3.13	6.3	6.4	6.6	6.5
April	29.645	30.140	29.080	59.2	67.3	68.1	72.2	55.9	64.0	83	42	50	50	51	73	55	57	.391	.386	.399	3.21	.85	6.0	6.3	6.5	6.3
May	29.550	29.870	29.200	67.5	75.5	74.8	79.8	65.1	72.4	87	58	60	59	60	77	58	61	.518	.510	.520	3.48	1.96	4.9	6.6	6.4	5.8
June	29.606	29.780	29.450	74.4	83.3	83.5	88.0	71.5	79.8	96	62	67	67	67	79	59	60	.676	.662	.673	3.31	1.35	5.1	6.0	6.3	5.3
July	29.647	29.830	29.500	75.5	83.1	82.3	87.2	72.7	80.0	96	61	69	69	70	80	64	68	.711	.720	.743	3.71	1.46	4.7	6.5	6.9	5.9
August	29.606	29.770	29.420	73.4	83.9	82.2	87.7	71.7	79.7	93	63	65	64	67	76	54	61	.626	.626	.665	.76	.63	2.8	4.9	5.3	4.2
September	29.668	29.840	29.490	69.0	81.4	78.7	85.1	67.5	76.3	96	54	60	61	62	74	52	59	.539	.552	.577	1.41	.42	2.2	3.1	2.6	2.7
October	29.633	29.960	29.350	56.8	70.6	68.3	75.1	55.5	65.3	89	39	47	47	48	70	45	51	.337	.349	.362	.89	.46	4.5	4.0	3.0	4.0
November	29.774	30.050	29.147	47.9	58.7	57.7	63.1	46.4	54.8	80	32	40	42	42	75	55	57	.267	.280	.280	3.50	1.36	4.4	5.6	3.2	4.1
December	29.674	30.080	29.010	44.5	50.5	50.4	56.4	40.3	48.4	73	20	38	38	39	78	64	66	.261	.262	.271	5.19	2.87	7.2	7.1	5.3	7.0
Year	29.665	30.180	28.980	58.0	66.6	66.1	71.2	55.5	63.4	96	20	50	51	52	76	60	62	.419	.425	.439	39.26	3.13	5.1	6.0	5.3	5.6

MERIDIAN, MISS.

[ϕ=32° 21′ N.; λ=88° 40′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.763	30.040	29.000	43.5	50.4	49.2	55.4	40.0	47.7	78	26	39	39	41	83	68	75	0.252	0.258	0.272	8.49	2.33	7.8	7.8	7.3	7.4
February	29.725	30.180	29.310	49.0	57.4	56.3	62.6	46.1	54.4	82	26	44	44	45	83	65	68	.314	.321	.329	9.12	3.42	7.4	7.9	5.3	6.9
March	29.678	30.020	29.240	49.8	61.7	60.1	66.4	46.5	56.4	81	29	45	44	46	84	56	63	.328	.318	.350	6.20	2.24	6.8	5.8	4.9	5.7
April	29.668	30.090	29.300	61.3	72.6	71.2	77.5	57.4	67.4	86	39	56	54	56	85	56	61	.480	.450	.472	4.20	3.03	6.9	6.0	4.3	5.8
May	29.547	29.850	29.267	66.8	78.0	74.4	81.6	63.0	72.3	89	54	63	62	63	87	59	70	.578	.554	.580	5.37	1.58	6.6	6.9	5.6	6.7
June	29.610	29.770	29.440	73.6	84.5	80.0	88.0	69.1	78.6	97	63	68	67	69	83	57	71	.695	.664	.708	4.45	1.28	4.5	5.6	5.9	5.2
July	29.672	29.830	29.510	73.7	85.1	79.8	89.3	69.9	79.6	94	60	70	68	69	88	58	73	.736	.701	.723	5.31	1.43	4.0	5.5	6.5	5.1
August	29.596	29.760	29.410	72.6	85.0	81.5	88.8	69.5	79.2	94	59	68	67	69	86	56	66	.697	.676	.708	2.67	1.15	4.7	4.2	5.0	4.1
September	29.646	29.790	29.470	69.1	84.5	79.8	88.2	66.1	77.2	96	59	64	63	65	84	50	61	.606	.691	.616	.16	.06	2.5	4.4	3.6	3.4
October	29.595	29.810	29.340	56.4	72.0	67.0	75.0	53.0	64.0	86	39	51	53	55	82	54	67	.402	.432	.452	2.30	1.22	4.5	5.8	3.5	4.6
November	29.757	29.960	29.200	51.1	64.7	60.2	68.4	48.3	58.4	81	34	46	47	48	81	54	66	.343	.360	.374	2.54	1.38	5.9	5.2	3.1	4.9
December	29.714	29.980	29.220	51.2	58.6	56.8	64.9	46.3	55.6	80	29	48	49	49	91	73	77	.373	.380	.376	5.73	1.50	7.6	6.6	4.9	6.5
Year	29.665	30.180	29.000	59.8	71.2	68.0	75.5	56.3	65.9	97	26	55	55	56	85	59	68	.484	.475	.497	56.74	3.42	5.8	5.9	5.0	5.5

Annual meteorological summary for the year ending December 31, 1922—Continued.

MANTEO, N. C.

[H_b=12 ft.; h_t=5 ft.; h_r=3 ft.; h_a=42 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.	*	Mi.																									
January	.....	NE.	....	.....	....	8	9	0	1	1	6	2	4	0	10	3	18	7	7	1	1	....	....	1	0	14	....	....
February	.....	NE.	....	.....	....	3	9	2	0	4	6	0	4	0	8	5	15	9	9	1	0	....	....	1	0	6	....	....
March	.....	S.	....	.....	....	2	6	1	4	8	5	1	4	0	15	5	11	7	7	0	0	....	....	0	0	2	....	....
April	.....	NE.	....	.....	....	4	11	0	2	3	8	1	1	0	18	5	7	5	5	0	0	....	....	0	1	1	....	....
May	.....	SW.	....	.....	....	1	6	5	4	5	10	0	0	0	16	3	12	8	8	0	0	....	....	0	0	0	....	....
June	.....	SW.	....	.....	....	0	3	1	0	7	18	1	0	0	15	2	13	12	12	0	0	....	....	0	2	0	....	....
July	.....	SW.	....	.....	....	0	6	0	1	5	19	0	0	0	14	3	14	9	9	0	0	....	....	0	5	0	....	....
August	.....	SW.	....	.....	....	0	5	2	3	5	15	1	0	0	19	3	9	9	9	0	0	....	....	0	1	0	....	....
September	.....	NE.	....	.....	....	0	23	2	4	0	1	0	0	0	19	6	5	3	3	0	0	....	....	0	0	0	....	....
October	.....	NE.	....	.....	....	6	8	0	3	4	7	2	1	0	17	4	10	5	5	0	0	....	....	0	0	0	....	....
November	.....	NE.	....	.....	....	2	7	2	0	5	3	6	5	0	24	2	4	1	1	0	0	....	....	0	0	7	....	....
December	.....	SW.	....	.....	....	4	5	0	4	5	6	4	3	0	17	1	13	6	6	1	0	....	....	0	0	4	....	....
Year	.....	SW.	....	.....	....	30	98	15	26	52	104	18	22	0	192	42	131	81	81	3	1	....	....	2	9	34	....	....

MARQUETTE, MICH.

[H_b=734 ft.; h_t=77 ft.; h_r=70 ft.; h_a=111 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	12.3	SW.	50	SE.	3	0	1	0	6	14	22	12	7	0	9	5	17	14	9	19	14	0	0	25	0	31	0	1
February	11.4	W.	40	SW.	1	0	4	2	5	9	16	12	8	0	7	7	14	16	10	21	16	0	0	24	0	28	0	1
March	10.8	W.	38	SE.	0	4	2	8	7	4	10	16	11	0	9	8	14	9	8	9	7	0	3	10	0	29	1	0
April	9.0	NW.	38	NW.	0	3	6	7	7	5	6	2	24	0	8	4	18	11	9	8	6	0	1	1	0	16	1	0
May	6.3	E.	22	SW.	0	3	5	11	9	5	10	3	16	0	9	8	14	11	9	0	0	0	0	0	0	0	1	0
June	7.6	SW.	33	SW.	0	0	2	9	13	5	11	2	18	0	9	8	13	10	10	0	0	0	5	0	2	0	2	0
July	6.4	NW.	25	SE.	0	0	2	7	14	4	11	3	21	0	8	9	14	14	10	0	0	0	2	0	0	0	6	0
August	8.6	SW.	38	W.	0	4	2	5	8	9	10	9	15	0	9	12	10	9	6	0	0	0	1	0	3	0	5	0
September	9.5	SW.	40	SW.	1	1	2	4	7	11	14	10	11	0	9	8	13	9	7	0	0	0	0	0	0	0	4	0
October	10.4	NW.	37	NW.	0	1	4	3	8	5	13	9	19	0	5	5	21	10	8	7	6	0	0	0	0	6	0	0
November	11.1	NW.	45	S.	2	0	5	2	9	2	14	6	22	0	1	2	27	20	14	13	10	0	1	6	0	16	0	0
December	12.6	W.	43	S.	2	3	0	1	1	13	13	22	9	0	6	1	24	16	10	18	14	0	0	22	0	31	0	0
Year	9.7	NW.	50	SE.	9	19	35	59	94	86	150	106	181	0	89	77	199	149	110	95	73	0	13	88	5	157	20	2

MEMPHIS, TENN.

[H_b=399 ft.; h_t=76 ft.; h_r=69 ft.; h_a=97 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	8.6	N.	34	W.	0	13	15	6	3	8	2	6	8	1	5	6	20	9	7	3	0	0	2	0	0	16	2	0
February	10.6	N.	38	W.	0	16	6	4	9	11	6	0	4	0	5	4	19	10	9	1	1	0	0	0	0	8	2	0
March	10.9	SE.	48	SW.	3	8	4	5	17	5	9	8	6	0	9	2	20	12	11	2	0	0	0	1	0	4	7	0
April	10.1	S.	56	SW.	5	2	11	6	9	17	8	2	4	1	9	6	15	10	7	0	0	0	0	0	0	0	4	0
May	5.9	S.	33	NW.	0	6	7	8	9	17	5	7	3	0	8	10	13	12	10	0	0	0	0	0	0	0	9	0
June	6.5	SW.	28	W.	0	6	6	5	5	15	15	6	2	0	11	5	14	9	8	0	0	1	0	0	12	0	8	0
July	7.1	SW.	40	NW.	1	10	7	4	5	17	12	3	4	0	8	10	13	6	6	0	0	0	0	0	7	0	11	0
August	6.0	N.	27	SW.	0	23	14	5	6	4	6	0	2	2	16	8	7	6	4	0	0	0	0	0	11	0	7	0
September	5.8	N.	26	SW.	0	22	10	7	8	5	5	2	1	0	18	11	1	7	7	0	0	0	0	0	7	0	6	0
October	6.5	SE.	30	NW.	0	12	6	13	13	8	4	2	3	1	17	5	9	5	5	0	0	0	0	0	0	0	2	0
November	7.9	N.	40	NW.	1	16	6	6	11	10	7	0	4	0	11	11	8	6	6	0	0	0	2	0	0	1	2	0
December	9.5	S.	32	SW.	0	15	10	3	6	14	11	0	3	0	8	3	20	14	11	0	0	1	0	1	0	7	6	0
Year	8.0	N.	56	SW.	10	149	102	72	101	131	90	36	44	5	125	81	159	106	91	6	1	2	4	2	37	36	66	0

MERIDIAN, MISS.

[H_b=375 ft.; h_t=85 ft.; h_r=62 ft.; h_a=93 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	7.1	NE.	25	SW.	0	11	20	5	3	8	5	2	8	0	4	7	20	16	13	0	0	0	0	0	0	5	2	0
February	6.9	N.	30	N.	0	9	9	1	7	8	8	3	7	4	5	7	16	12	12	1	0	0	2	0	0	4	5	0
March	7.4	SE.	26	W.	0	6	6	4	16	6	5	3	11	5	9	7	15	11	9	0	0	0	0	0	0	3	7	0
April	6.8	S.	34	W.	0	8	9	5	9	14	10	0	2	3	5	16	9	10	7	0	0	0	0	0	0	0	6	0
May	5.1	SW.	31	NW.	0	4	10	4	7	10	15	3	6	3	5	13	13	16	10	0	0	1	1	0	0	0	9	0
June	4.0	W.	31	SE.	0	6	7	4	8	6	6	9	8	6	11	11	8	13	12	0	0	0	0	0	10	0	13	0
July	4.6	SW.	30	N.	0	6	1	4	5	12	20	6	6	2	8	16	7	12	9	0	0	0	0	0	14	0	15	0
August	4.2	NE.	29	N.	0	10	13	9	6	2	9	5	4	4	16	10	5	7	5	0	0	0	0	0	16	0	9	0
September	3.9	E.	20	E.	0	10	9	17	6	2	4	2	1	9	20	8	2	6	2	0	0	0	0	0	10	0	4	0
October	4.9	NE.	22	NW.	0	10	25	11	2	2	1	3	6	2	14	8	9	6	4	0	0	0	1	0	0	0	1	0
November	5.1	N.	23	SW.	0	14	11	11	6	4	3	2	4	5	12	9	9	9	7	1	0	0	0	0	0	0	3	0
December	6.5	SW.	32	SW.	0	6	10	7	5	8	15	3	4	4	6	10	15	15	13	0	0	0	2	0	0	3	4	0
Year	5.5	NE.	34	W.	0	100	130	82	80	82	101	41	67	47	115	122	128	133	103	2	0	1	6	0	50	15	78	0

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1922—Continued.

MIAMI, FLA.

[ϕ=25° 48′ N.; λ=80° 12′ W.]

Month.	Pressure.			Temperature.								Moisture.														
	Extremes.			Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	30.098	30.450	29.680	64.1	72.0	68.7	73.8	61.3	67.6	80	40	57	59	60	80	65	73	0.496	0.520	0.528	0.55	0.29	4.5	5.6	4.4	4.5
February	30.126	30.380	29.910	68.1	73.9	70.6	75.6	65.0	70.3	81	40	61	61	62	78	64	74	.558	.553	.570	3.14	2.51	3.5	3.5	2.7	3.6
March	30.098	30.250	29.870	70.8	76.5	73.2	77.8	67.9	72.8	86	52	62	62	63	73	63	71	.566	.577	.585	.13	.07	3.3	4.9	2.6	4.6
April	30.087	30.280	29.930	75.0	78.7	75.6	79.8	71.8	75.8	84	62	65	65	65	71	63	71	.616	.625	.625	.54	.33	4.2	4.4	3.7	4.7
May	29.949	30.160	29.710	77.5	81.3	77.2	83.0	71.3	77.2	89	68	70	70	69	78	70	76	.732	.739	.713	9.06	4.00	5.7	6.5	7.8	7.0
June	30.014	30.150	29.890	80.8	83.2	79.2	84.9	74.1	79.5	89	69	72	72	71	76	70	77	.799	.786	.764	4.50	1.26	5.4	6.0	5.9	6.3
July	30.092	30.190	30.000	80.6	83.3	80.8	85.5	75.8	80.6	88	69	72	72	72	76	69	75	.784	.781	.781	8.16	2.25	5.3	5.9	6.5	6.2
August	29.982	30.100	29.870	81.6	83.9	79.9	86.8	75.5	81.2	89	69	73	73	72	75	70	77	.810	.800	.780	7.97	2.22	4.6	6.0	7.2	6.2
September	29.952	30.090	29.820	80.4	83.1	80.4	85.3	74.9	80.1	89	70	73	72	73	79	71	78	.816	.799	.809	11.04	3.51	6.1	7.2	6.4	7.3
October	29.885	30.010	29.710	77.3	81.3	77.7	83.0	72.9	78.0	90	68	73	72	72	86	74	82	.806	.784	.779	15.85	2.56	7.5	4.6	6.7	7.9
November	30.042	30.330	29.800	71.9	77.0	73.9	78.2	68.0	73.1	83	52	64	63	64	77	64	72	.609	.596	.607	5.44	2.46	5.4	5.2	5.2	5.7
December	30.114	30.370	29.830	69.6	75.4	72.1	76.7	66.9	71.8	82	52	62	62	64	79	64	75	.578	.573	.598	1.19	.67	3.1	4.1	3.0	3.7
Year	30.037	30.450	29.680	74.8	79.1	75.8	80.9	70.4	75.7	90	40	67	67	67	77	67	75	.681	.678	.678	67.57	4.00	4.9	5.3	5.2	5.6

MILES CITY, MONT.

[ϕ=46° 25′ N.; λ=105° 49′ W.]

Month.	Pressure.			Temperature.								Moisture.														
	Extremes.			Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight
January	27.510	28.000	26.900	10.0	....	15.3	22.4	5.1	13.8	43	−25	7	....	10	89	....	79	0.069	....	0.075	1.00	0.32	4.1	....	5.5	4.8
February	27.544	28.143	26.900	−3.4	....	7.6	15.7	−6.7	4.5	42	−34	−5	....	3	94	....	79	.038	....	.054	.84	.51	3.8	....	5.6	4.2
March	27.431	27.904	26.987	19.2	....	33.9	29.2	17.9	28.6	60	−30	18	....	29	90	....	82	.106	....	.166	.52	.28	4.4	....	5.4	4.4
April	27.439	27.810	26.872	35.4	....	49.4	55.9	34.8	45.4	77	20	32	....	38	89	....	68	.186	....	.234	2.13	.49	6.6	....	6.9	6.3
May	27.416	27.900	26.755	48.7	....	62.3	68.6	46.5	57.6	88	34	44	....	45	84	....	58	.291	....	.312	4.75	2.27	5.1	....	6.3	5.9
June	27.439	27.790	27.138	59.5	....	77.7	82.1	57.0	69.6	98	44	54	....	56	84	....	50	.430	....	.458	1.53	.69	3.8	....	3.8	4.1
July	27.496	27.750	27.092	60.9	....	80.7	86.6	59.0	72.8	98	46	54	....	52	80	....	40	.430	....	.389	2.17	.58	4.5	....	4.2	3.8
August	27.440	27.710	27.167	63.9	83.3	85.2	90.6	61.5	76.0	100	50	54	51	50	70	34	33	.419	.390	.379	.48	.30	3.0	1.9	3.5	2.7
September	27.488	27.860	27.056	51.6	73.3	74.2	81.3	50.3	65.8	96	37	42	43	44	69	36	36	.268	.282	.291	.68	.56	2.9	2.4	3.3	2.9
October	27.468	27.867	26.966	38.5	59.6	58.3	64.5	36.4	50.4	91	22	29	31	31	68	38	38	.160	.178	.174	.52	.33	3.9	4.5	4.6	4.5
November	27.561	28.150	27.050	28.9	39.6	37.8	44.8	25.8	35.3	62	10	22	26	26	76	59	61	.121	.143	.143	.44	.18	4.3	6.2	5.3	5.6
December	27.471	27.932	27.012	10.0	19.0	17.2	23.2	4.7	14.0	47	−30	3	10	12	72	66	66	.069	.087	.083	.80	.22	4.6	6.1	5.7	6.2
Year	27.475	28.150	26.755	35.3	....	50.0	56.2	32.7	44.5	100	−34	30	....	33	80	....	58	.216	....	.230	15.86	2.27	4.2	....	5.0	4.6

MILWAUKEE, WIS.

[ϕ=43° 02′ N.; λ=87° 54′ W.]

Month.	Pressure.			Temperature.								Moisture.														
	Extremes.			Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight
January	29.408	30.050	28.610	18.5	24.0	23.1	29.1	14.2	21.6	45	−7	11	9	13	70	55	62	0.078	0.081	0.087	0.92	0.73	4.8	4.9	3.5	4.2
February	29.323	30.000	28.580	20.5	25.2	25.1	31.5	15.3	23.4	47	−2	14	15	16	74	62	67	0.092	.094	.097	1.45	.70	6.2	5.1	4.7	5.4
March	29.316	29.880	28.620	32.8	38.4	36.1	41.7	30.0	35.8	64	12	26	27	28	75	65	72	.145	.158	.156	1.83	.79	6.8	6.1	7.1	6.6
April	29.287	29.763	28.240	42.2	46.3	45.3	52.4	36.7	44.6	73	28	36	35	35	78	67	69	.217	.211	.209	2.38	.83	6.4	6.4	5.7	6.0
May	29.215	29.631	28.580	57.2	60.9	58.8	66.9	51.7	59.3	82	48	49	47	47	74	63	67	.348	.324	.324	2.36	.64	4.3	5.6	5.1	5.4
June	29.253	29.610	28.810	65.4	71.1	69.2	75.7	58.9	67.3	94	47	54	54	54	68	58	61	.429	.432	.427	2.48	1.02	3.8	4.9	4.0	4.5
July	29.274	29.620	28.810	67.1	73.6	72.0	77.0	62.6	69.8	92	55	58	58	58	73	60	62	.486	.490	.483	2.49	1.08	5.5	5.9	5.3	5.4
August	29.264	29.490	28.840	67.3	75.3	71.8	78.1	63.2	70.6	93	51	58	60	60	73	61	67	.495	.536	.527	1.71	1.18	3.3	4.4	3.5	3.8
September	29.366	29.730	29.020	61.7	70.0	67.4	73.5	58.8	66.2	97	47	54	56	56	76	62	67	.432	.456	.461	4.63	2.18	4.0	3.9	3.9	4.6
October	29.255	29.640	28.850	49.8	58.6	54.9	61.8	47.0	54.4	87	31	42	45	45	74	62	71	.277	.313	.313	1.62	.89	5.6	5.0	4.6	5.2
November	29.304	29.700	28.820	39.5	43.7	43.3	47.3	36.7	42.0	62	22	34	37	38	80	77	80	.204	.231	.240	2.47	.96	8.5	7.4	7.2	7.7
December	29.322	29.860	28.800	23.0	27.0	26.7	33.0	18.3	25.6	57	−8	18	18	18	78	67	69	.100	.112	.113	1.30	.45	5.6	6.6	6.3	6.4
Year	29.299	30.050	28.240	45.4	51.2	49.5	55.7	41.1	48.4	97	−8	38	38	39	74	63	68	.276	.286	.286	25.64	2.18	5.4	5.5	5.1	5.4

MINNEAPOLIS, MINN.

[ϕ=44° 59′ N.; λ=93° 18′ W.]

Month.	Pressure.			Temperature.								Moisture.														
	Extremes.			Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight
January	29.108	29.820	28.360	....	17.4	16.3	21.9	5.6	13.8	39	−18	....	9	9	....	66	71	....	0.071	0.071	0.88	0.35	....	6.6	5.7	6.2
February	29.083	29.820	28.040	....	15.4	14.3	20.7	2.4	11.6	41	−45	....	7	8	....	68	73	....	.066	.066	3.25	1.13	....	6.4	5.1	5.6
March	29.031	29.670	28.220	....	35.4	35.4	39.3	25.5	32.4	51	−1	....	24	25	....	61	64	....	.126	.136	1.60	.46	....	6.6	5.4	6.0
April	29.010	29.450	28.210	....	49.6	50.3	54.3	36.9	45.6	69	28	....	33	34	....	57	57	....	.195	.201	1.35	.74	....	8.1	6.9	7.6
May	28.909	29.320	28.380	....	67.9	67.0	72.1	54.4	63.2	86	41	....	48	50	....	52	57	....	.353	.372	2.94	.60	....	7.4	6.9	6.8
June	28.946	29.350	28.560	....	74.7	74.0	79.1	59.6	69.4	99	50	....	56	58	....	55	59	....	.461	.486	5.63	1.63	....	5.8	5.6	5.6
July	28.996	29.270	28.490	....	75.0	75.8	79.3	60.6	70.0	91	52	....	55	56	....	52	51	....	.445	.450	1.67	.63	....	7.4	3.9	6.0
August	28.967	29.160	28.670	....	79.6	77.9	83.5	63.4	73.4	95	52	....	58	58	....	48	53	....	.487	.502	1.66	.67	....	5.4	4.6	5.0
September	29.044	29.540	28.610	....	71.6	69.8	75.8	55.5	65.6	98	40	....	50	51	....	49	53	....	.384	.393	2.16	.88	....	4.7	4.3	4.5
October	28.951	29.300	28.490	....	58.8	56.6	62.5	44.6	53.6	89	30	....	40	40	....	51	56	....	.257	.265	1.21	.75	....	5.5	5.1	5.3
November	28.991	29.460	28.150	....	41.0	40.1	44.8	34.3	39.6	62	17	....	33	33	....	73	74	....	.199	.193	3.57	.84	....	6.9	8.1	8.5
December	29.031	29.560	28.510	....	21.4	20.2	25.9	10.4	18.2	51	−12	....	12	12	....	65	68	....	.083	.084	.15	.12	....	5.8	6.4	6.2
Year	29.006	29.820	28.040	....	50.6	49.8	54.9	37.8	46.4	99	−18	....	35	36	....	58	61	....	.261	.268	26.07	1.63	....	6.6	5.7	6.1

Annual meteorological summary for the year ending December 31, 1922—Continued.

MIAMI, FLA.

[H_b=25 ft.; h_1=71 ft.; h_2=64 ft.; h_a=79 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	8.3	E.	30	SW.	0	5	7	27	2	2	3	3	13	0	9	14	8	7	3	0	0	0	0	0	0	0	0	0
February	10.7	E.	30	NW.	0	4	1	25	14	6	0	1	5	0	16	9	3	4	3	0	0	0	0	0	0	0	1	0
March	11.2	E.	26	E.	0	5	7	23	14	3	4	3	3	0	12	16	3	5	1	0	0	0	0	0	0	0	0	0
April	9.5	SE.	25	E.	0	4	4	19	24	5	1	2	0	1	13	11	6	3	2	0	0	0	0	0	0	0	2	0
May	7.6	E.	38	NW.	0	2	5	16	12	10	7	4	6	0	4	10	17	18	14	0	0	0	0	0	0	0	13	0
June	6.2	SE.	30	NW.	0	6	3	12	20	9	5	5	0	0	5	15	10	15	13	0	0	0	0	0	0	0	15	0
July	6.4	E.	24	NW.	0	1	1	26	24	1	3	3	2	1	6	13	12	21	18	0	0	0	0	0	0	0	11	0
August	6.1	SE.	33	NW.	0	2	3	13	18	6	7	6	4	3	3	17	11	17	14	0	0	0	0	0	0	0	15	0
September	6.1	E.	21	E.	0	2	5	18	16	4	3	4	7	1	2	11	17	23	19	0	0	0	0	0	0	0	14	0
October	7.2	SE.	26	E.	0	10	6	14	16	1	5	4	6	0	3	7	21	26	26	0	0	0	0	0	1	0	10	0
November	9.2	E.	27	NE.	0	10	9	26	3	3	3	2	4	0	9	11	10	16	14	0	0	0	0	0	0	0	0	0
December	7.6	E.	25	E.	0	8	5	16	17	2	2	2	10	0	17	10	4	7	6	0	0	0	0	0	0	0	1	0
Year	8.0	E.	38	NW.	0	59	56	235	180	52	43	39	60	6	99	144	122	162	133	0	0	0	0	0	1	0	82	0

MILES CITY, MONT.

[H_b=2,371 ft.; h_1=48 ft.; h_2=39 ft.; h_a=55 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	7.0	*SE.	33	NW.	0	9	2	1	14	12	5	7	12	0	13	13	5	11	9	15	11	0	0	22	0	31	0	0
February	4.8	SE.	34	NE.	0	2	12	2	17	3	7	4	9	0	11	14	3	10	4	14	10	0	0	24	0	28	0	0
March	5.2	SE.	26	NW.	0	3	14	0	17	3	8	7	10	0	14	12	5	3	3	6	3	0	0	5	0	28	0	0
April	7.1	SE.	36	NE.	0	4	10	6	15	5	3	3	13	1	6	13	11	13	9	8	7	0	0	0	0	12	0	0
May	9.2	NW.	38	NW.	0	5	1	5	14	4	6	12	15	0	7	17	7	18	16	1	1	0	0	0	0	0	2	0
June	5.8	SE.	39	N.	0	14	15	6	13	2	3	0	7	0	13	12	5	9	9	0	0	0	0	0	4	0	5	0
July	5.1	N.	36	NW.	0	17	4	7	17	3	6	1	7	0	13	16	2	11	9	0	0	0	0	0	12	0	8	0
August	5.6	NE.	33	S.	0	11	15	2	11	9	7	2	4	1	21	7	3	4	3	0	0	0	0	0	18	0	8	0
September	5.0	S.	36	NW.	0	4	9	6	3	12	6	9	8	3	20	9	1	2	2	0	0	0	0	0	6	0	2	0
October	5.5	S.	30	N.	0	8	3	5	5	21	7	1	10	2	13	7	11	4	3	1	1	0	0	0	1	11	0	0
November	6.1	SW.	36	NW.	0	5	9	1	10	4	14	7	10	0	11	6	13	7	5	6	4	0	0	2	0	25	0	0
December	5.5	SW.	24	NW.	0	4	12	5	3	11	13	9	5	0	9	8	14	9	7	16	14	0	0	18	0	31	0	0
Year	6.0	SE.	39	N.	0	86	106	46	139	89	85	62	110	7	151	134	80	101	79	67	51	0	0	71	41	166	25	0

MILWAUKEE, WIS.

H_b=681 ft.; h_1=125 ft.; h_2=117 ft.; h_a=139 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	11.9	SW.	31	SW.	0	2	8	5	4	3	14	12	14	0	12	13	6	5	3	10	4	0	1	15	0	31	0	0
February	11.5	NW.	39	SW.	0	4	8	2	4	5	10	10	13	0	10	7	11	9	6	12	5	0	3	14	0	27	3	0
March	13.3	NE.	44	SW.	1	11	17	4	5	5	9	3	8	0	7	8	16	12	6	9	7	0	2	3	0	17	1	0
April	10.9	NE.	40	SW.	1	3	15	3	12	5	4	8	10	0	10	6	14	13	8	3	1	0	2	0	0	2	3	0
May	7.7	NE.	28	SW.	0	2	17	4	18	5	3	6	7	0	11	8	12	13	10	0	0	0	3	0	0	0	4	0
June	8.3	NE.	30	SW.	0	4	12	3	9	6	11	8	7	0	15	8	7	8	7	0	0	1	1	0	2	0	6	0
July	7.9	SW.	36	SE.	0	7	10	2	10	7	13	6	7	0	11	10	10	11	9	0	0	0	0	0	1	0	7	0
August	8.2	SE.	34	NE.	0	2	16	3	13	7	9	6	6	0	16	12	3	7	6	0	0	0	1	0	1	0	6	0
September	8.4	SW.	27	NE.	0	9	15	2	4	7	14	6	2	1	16	6	8	8	8	0	0	0	0	0	3	0	7	0
October	10.6	SW.	32	S.	0	6	6	6	4	6	14	14	6	0	11	11	9	7	5	0	0	1	0	0	0	1	1	0
November	11.8	W.	40	SW.	1	5	1	3	4	4	19	17	7	0	5	5	20	11	10	5	1	0	0	2	0	12	1	0
December	11.1	W.	31	SE.	0	9	4	1	4	7	13	20	4	0	10	2	19	9	8	8	5	0	1	11	0	28	0	0
Year	10.1	SW.	44	SW.	3	64	129	38	91	67	133	116	91	1	134	96	135	113	86	47	23	2	14	45	7	118	39	0

MINNEAPOLIS, MINN.

[H_b=918 ft.; h_1=102 ft.; h_2=92 ft.; h_a=208 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	12.6	*S.	41	NW.	2	3	1	0	8	5	3	4	7	0	8	11	12	7	3	11	7	0	1	23	0	31	0	0
February	12.5	W.	38	NW.	0	0	4	0	4	1	2	10	7	0	8	11	9	11	8	12	10	0	0	21	0	28	2	0
March	12.5	SE.	37	SE.	0	6	1	3	6	3	4	2	6	0	9	8	14	9	7	9	6	0	0	4	0	25	1	0
April	11.0	SE.	44	NW.	2	4	3	3	6	6	1	3	4	0	2	12	16	11	8	6	3	0	0	0	0	5	0	0
May	10.1	S.	34	SE.	0	1	4	2	9	3	6	3	3	0	3	14	14	13	11	0	0	0	0	0	0	0	4	0
June	10.8	SE.	54	N.	1	4	4	3	7	4	4	0	4	0	11	9	10	12	11	0	0	0	0	0	2	0	11	0
July	9.5	NW.	41	S.	2	4	2	0	8	5	3	3	6	0	5	15	11	8	5	0	0	0	0	0	1	0	6	0
August	9.9	SE.	55	NW.	1	6	3	1	10	5	1	2	3	0	11	15	5	8	6	0	0	0	0	0	6	0	8	0
September	10.1	S.	36	SE.	0	5	3	2	6	10	1	1	2	0	13	9	8	11	7	0	0	0	0	0	5	0	5	0
October	11.5	NW.	37	NW.	0	2	3	1	5	8	1	6	5	0	10	10	11	5	5	1	1	0	2	0	0	3	1	0
November	12.8	N.	46	SW.	2	3	3	1	4	5	3	8	3	0	3	4	23	13	11	4	1	0	0	3	0	13	0	0
December	12.2	W.	43	NW.	2	4	0	1	5	4	4	6	7	0	7	11	13	4	1	8	4	0	0	19	0	30	0	0
Year	11.3	SE.	55	NW.	12	42	31	17	78	59	33	48	57	0	90	129	146	112	83	51	32	0	3	70	14	135	38	0

*By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1922—Continued.

MOBILE, ALA.

[ϕ=30° 41′ N.; λ=88° 02′ W.]

Month.	Pressure.			Temperature.								Moisture.													
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	30.090	30.370	29.410	49.3	55.4	54.2	59.7	46.4	53.0	72	32	45	48	48	86	77	82	0.319	0.355	0.360	6.79	1.82	7.4	7.5	6.5	7.0
February	30.063	30.530	29.690	54.2	63.0	60.0	67.8	51.0	59.4	77	30	51	56	54	88	78	82	.401	.466	.440	5.65	2.42	6.7	6.8	5.3	6.4
March	30.029	30.330	29.620	55.1	64.1	61.8	68.4	52.0	60.2	80	33	50	50	52	83	65	72	.390	.405	.412	11.46	5.54	6.0	6.4	5.8	5.7
April	30.019	30.350	29.730	65.6	73.6	71.2	77.2	63.2	70.2	84	49	61	61	62	85	68	74	.556	.568	.579	.92	.38	6.3	6.2	7.5	5.9
May	29.876	30.134	29.590	70.5	77.9	74.8	81.4	66.8	74.1	91	55	67	66	67	89	68	78	.664	.640	.659	8.31	1.98	6.6	6.5	7.1	6.8
June	29.945	30.070	29.740	76.7	84.9	80.1	88.6	73.1	80.8	99	66	72	70	71	86	62	75	.789	.740	.769	2.03	.79	4.2	5.9	7.3	5.4
July	30.012	30.170	29.850	77.6	84.0	80.3	88.3	73.8	81.0	92	68	73	72	72	85	67	77	.803	.775	.792	9.57	4.59	3.5	6.6	6.5	5.5
August	29.920	30.070	29.780	76.2	85.4	80.8	88.7	73.5	81.1	94	68	71	71	72	86	63	76	.771	.764	.797	5.13	2.35	4.6	5.5	7.1	5.5
September	29.960	30.100	29.810	72.6	84.6	79.3	88.0	70.9	79.4	94	65	68	67	69	86	58	72	.697	.680	.713	3.19	1.26	3.9	4.9	5.6	4.7
October	29.897	30.110	29.720	62.5	73.6	70.2	76.9	60.5	68.7	87	48	58	59	61	85	64	74	.505	.530	.554	4.61	2.98	5.1	5.8	4.1	5.1
November	30.076	30.290	29.590	56.5	67.6	64.4	70.9	54.7	62.8	84	38	52	54	55	85	63	73	.429	.458	.475	3.98	1.54	4.5	6.2	5.3	5.8
December	30.054	30.320	29.618	56.7	63.1	60.5	67.1	53.1	60.1	79	37	55	56	56	93	80	85	.451	.480	.466	9.10	3.21	7.0	6.5	6.9	6.3
Year	29.995	30.530	29.410	64.5	73.1	69.8	76.9	61.6	69.2	99	30	60	61	62	86	68	77	.565	.572	.585	70.74	5.54	5.5	6.2	6.2	5.8

MODENA, UTAH.

[ϕ=37° 48′ N.; λ=113° 54′ W.]

January	24.594	25.110	24.030	7.1	26.3	23.8	30.8	2.5	16.6	47	−12	3	14	14	81	58	65	0.054	0.085	0.083	1.72	0.66	2.0	2.2	2.5	2.6
February	24.542	24.940	24.130	22.0	35.2	34.2	39.5	18.5	29.0	53	−14	15	20	20	75	53	54	.097	.109	.107	.89	.30	4.5	4.9	5.4	5.1
March	24.553	24.950	24.110	26.7	43.6	44.8	48.6	24.1	36.4	63	7	17	18	16	66	36	33	.093	.097	.092	.45	.31	3.6	4.3	4.4	4.4
April	24.535	24.970	24.100	30.2	49.1	49.0	54.2	26.2	40.2	72	7	22	21	21	71	37	38	.118	.111	.111	1.02	.26	3.9	4.7	5.7	5.0
May	24.582	24.840	24.050	38.6	64.9	66.0	69.5	37.0	53.2	82	20	25	24	23	58	24	23	.133	.130	.125	1.61	1.02	2.0	2.4	3.0	2.5
June	24.624	24.840	24.410	50.0	79.6	79.6	84.1	47.3	65.7	94	34	29	30	28	46	18	17	.169	.179	.163	.23	.15	2.1	2.7	3.0	2.7
July	24.695	24.860	24.450	56.4	83.9	84.0	89.0	55.2	72.1	99	47	38	36	36	52	22	23	.240	.225	.231	1.22	.37	2.5	2.6	3.4	2.9
August	24.679	24.830	24.464	57.5	78.0	78.6	83.6	55.7	69.6	93	48	48	49	47	72	40	38	.345	.358	.338	2.41	.87	3.3	3.8	4.0	4.0
September	24.687	24.850	24.460	50.1	78.2	77.6	82.4	47.8	65.1	90	38	35	39	35	58	27	23	.211	.246	.211	.04	.04	2.1	3.3	3.1	2.6
October	24.620	24.910	24.180	35.9	62.4	61.1	66.5	32.5	49.5	78	21	20	24	24	51	26	27	.109	.133	.130	.37	.37	1.5	2.4	2.9	2.5
November	24.635	24.980	24.040	24.6	43.1	38.5	46.8	21.7	34.2	62	12	18	23	22	74	46	51	.095	.121	.113	1.00	.51	3.0	3.3	2.9	3.6
December	24.632	24.980	24.300	28.6	38.2	35.1	41.5	25.0	33.2	55	9	24	26	27	82	64	72	.128	.143	.147	.61	.28	5.0	5.8	5.4	6.6
Year	24.615	25.110	24.030	35.6	56.9	56.0	61.4	32.8	47.1	99	−14	24	27	26	66	38	39	.149	.161	.154	11.57	1.02	3.0	3.5	3.8	3.7

MONTGOMERY, ALA.

[ϕ=32° 23′ N.; λ=86° 18′ W.]

January	29.938	30.210	29.186	44.3	50.8	50.7	55.7	41.7	48.7	77	27	38	40	42	80	70	74	0.252	0.270	0.285	6.94	1.65	7.3	7.2	6.2	7.1
February	29.897	30.350	29.420	51.0	59.5	59.2	66.1	48.0	57.0	80	27	46	47	49	82	64	70	.335	.344	.374	6.69	2.31	6.9	6.4	6.1	6.6
March	29.864	30.180	29.350	52.1	61.2	61.7	67.4	49.2	58.3	83	32	46	49	51	80	68	70	.333	.383	.401	11.38	4.50	5.5	6.0	4.2	5.4
April	29.855	30.200	29.490	61.8	73.0	72.4	77.9	58.8	68.4	89	43	56	58	59	82	62	64	.476	.509	.515	2.89	.90	5.1	5.0	3.9	4.8
May	29.716	30.040	29.390	69.1	77.4	74.7	81.8	65.3	73.6	90	58	63	63	64	82	64	70	.588	.582	.591	5.89	1.11	5.6	6.4	7.4	6.5
June	29.773	29.940	29.550	75.3	85.9	82.7	90.0	71.1	80.6	98	65	69	67	68	81	54	63	.707	.657	.681	1.21	.82	3.8	5.7	6.6	5.5
July	29.830	29.990	29.660	76.3	86.8	82.8	90.7	72.6	81.6	97	65	70	69	69	83	56	66	.749	.719	.718	4.01	1.47	2.6	4.8	6.4	5.2
August	29.754	29.940	29.570	73.9	84.8	82.6	89.5	71.1	80.3	96	62	68	68	68	82	58	61	.686	.679	.678	2.15	.75	4.5	4.5	4.8	4.7
September	29.805	29.970	29.600	71.6	85.2	81.5	89.3	68.9	79.1	98	60	65	63	63	80	49	56	.638	.596	.585	2.56	1.95	3.0	3.2	3.1	3.1
October	29.758	29.980	29.490	60.1	72.1	69.4	75.5	57.8	66.6	87	45	54	55	56	80	58	65	.442	.461	.474	3.26	2.14	3.7	5.4	4.0	4.8
November	29.922	30.170	29.330	51.3	64.7	62.0	69.0	49.3	59.2	82	32	45	48	47	80	56	60	.333	.370	.361	1.27	1.01	5.7	4.7	3.1	4.7
December	29.890	30.190	29.330	50.8	59.0	58.4	64.5	47.8	56.2	79	33	48	52	50	89	77	76	.352	.399	.379	6.82	1.84	7.4	6.9	5.2	6.6
Year	29.824	30.350	29.186	61.5	71.7	69.8	76.4	58.5	67.5	98	27	56	57	57	82	61	66	.491	.497	.504	55.07	4.50	5.1	5.5	5.1	5.4

MOORHEAD, MINN.

[ϕ=46° 52′ N.; λ=96° 44′ W.]

January	29.068	29.820	28.280	4.5	10.4	10.3	18.4	−1.7	8.4	35	−29	0	4	6	83	75	82	0.053	0.058	0.064	0.42	0.13	4.3	6.2	5.9	6.2
February	29.097	29.770	28.260	−1.6	6.3	5.9	12.9	−7.6	2.6	27	−30	−6	1	2	84	76	82	.037	.045	.046	.72	.25	5.5	7.4	5.1	6.2
March	29.017	29.670	28.510	21.7	30.4	31.1	34.4	20.4	27.4	53	−16	19	24	26	86	76	79	.105	.132	.139	1.30	.60	6.7	7.5	7.2	7.1
April	29.000	29.440	28.540	36.8	47.8	48.2	51.5	34.7	43.1	74	23	32	34	35	82	62	64	.179	.202	.207	1.85	.63	6.8	7.6	5.8	7.0
May	28.876	29.280	28.360	54.0	66.2	64.2	69.5	49.5	59.5	81	40	48	47	47	80	54	58	.341	.342	.338	3.94	1.75	5.5	7.5	6.3	6.8
June	28.910	29.322	28.560	60.8	72.3	71.8	75.9	55.4	65.6	94	46	54	54	56	79	55	59	.426	.432	.451	2.93	1.08	5.8	6.8	5.5	6.1
July	28.957	29.240	28.396	61.0	74.2	74.1	78.3	56.3	67.3	92	45	55	55	56	81	53	54	.441	.445	.451	1.65	.91	4.8	6.7	5.4	6.1
August	28.924	29.140	28.620	62.6	78.9	78.9	83.8	58.9	71.4	97	44	56	55	54	80	45	45	.462	.446	.436	.74	.42	4.0	4.2	4.0	4.6
September	28.989	29.550	28.577	51.5	68.9	67.7	73.7	49.2	61.4	97	36	46	47	46	83	50	49	.333	.344	.330	.66	.29	3.5	4.5	3.6	4.4
October	28.927	29.290	28.450	38.1	55.0	52.9	59.5	36.0	47.8	93	17	32	34	33	78	50	50	.184	.205	.195	.16	.10	5.0	5.3	4.5	5.5
November	28.979	29.580	28.130	32.9	36.0	34.5	39.5	28.9	34.2	53	9	30	31	31	90	81	87	.176	.189	.182	2.83	.61	8.7	5.6	7.7	8.7
December	28.996	29.500	28.370	7.3	11.2	10.3	17.3	1.5	9.4	41	−18	5	7	8	90	81	87	.067	.070	.069	.60	.23	5.2	7.6	5.1	7.2
Year	28.980	29.820	28.130	35.8	46.5	45.8	51.2	31.8	41.5	97	−30	31	33	33	83	63	66	.234	.242	.242	17.80	1.75	5.5	6.4	5.5	6.3

Annual meteorological summary for the year ending December 31, 1922—Continued.

MOBILE, ALA.

[H_b=57 ft.; h_t=125 ft.; h_r=119 ft.; h_a=161 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.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
	Miles.	*	*Mi.*																									
January	11.4	NE.	37	N.	0	11	18	6	6	12	1	3	5	0	5	8	18	13	11	0	0	0	2	0	0	1	0	0
February	10.9	S.	45	NW.	1	8	11	4	7	13	7	1	5	0	4	12	12	9	8	0	0	0	5	0	0	2	6	0
March	12.8	SE.	47	SE.	1	9	7	5	13	11	6	4	7	0	6	18	7	10	8	0	0	0	0	0	0	0	6	0
April	11.8	S.	40	NW.	1	11	5	4	8	19	10	1	2	0	5	15	10	6	4	0	0	0	0	0	0	0	1	0
May	8.9	SW.	34	W.	0	9	11	9	4	5	14	5	5	0	1	20	10	13	11	0	0	0	0	0	1	0	8	0
June	7.3	W.	29	N.	0	6	3	5	9	7	10	10	10	0	9	15	6	13	7	0	0	0	0	0	11	0	12	0
July	7.8	SW.	29	W.	0	5	2	3	3	9	17	9	14	0	5	21	2	16	15	0	0	0	0	0	7	0	21	0
August	7.5	N.	39	NW.	0	15	6	5	4	4	11	8	8	1	5	19	7	12	10	0	0	0	1	0	12	0	9	0
September	7.4	NE.	32	E.	0	11	19	8	4	6	5	2	5	0	9	14	7	10	6	0	0	0	0	0	10	0	6	0
October	9.5	N.	32	E.	0	20	16	10	0	7	3	0	6	0	12	8	11	10	10	0	0	0	1	0	0	0	1	0
November	9.7	N.	28	N.	0	20	8	12	7	7	2	2	2	0	9	11	10	7	5	0	0	0	2	0	0	0	2	0
December	9.7	S.	31	S.	0	12	3	6	6	14	12	2	7	0	4	17	10	11	9	0	0	1	6	0	0	0	6	0
Year	9.6	N.	47	SE.	3	137	109	77	71	114	98	47	76	1	74	181	110	130	104	0	0	1	17	0	41	3	78	0

MODENA, UTAH.

[H_b=5,479 ft.; h_t=10 ft.; h_r=2 ft.; h_a=43 ft.]

January	8.2	W.	48	S.	2	4	19	2	7	0	7	19	4	0	20	6	5	7	4	7	6	0	0	16	0	31	0	0
February	11.7	SW.	55	SW.	3	6	4	4	0	7	19	16	0	0	10	9	9	7	5	8	5	0	0	5	0	27	0	0
March	11.2	W.	55	S.	4	6	6	9	2	2	18	14	5	0	15	9	7	4	3	8	3	0	0	1	0	25	1	0
April	10.3	SW.	49	N.	3	7	8	4	5	5	11	14	5	1	9	14	7	11	8	11	9	0	0	1	0	22	4	0
May	11.5	W.	56	S.	4	3	6	7	3	5	12	23	2	1	22	7	2	5	5	2	2	0	0	0	0	6	0	0
June	11.9	SW.	46	SW.	4	4	1	2	4	4	23	20	2	0	18	11	1	4	2	0	0	0	0	0	8	0	7	0
July	10.7	W.	40	SW.	1	2	3	3	2	3	13	32	4	0	20	9	2	8	7	0	0	1	0	0	15	0	9	0
August	9.7	SW.	44	S.	3	5	3	0	1	6	22	23	2	0	16	10	5	11	9	0	0	0	0	0	4	0	14	0
September	9.5	SW.	44	S.	2	2	1	4	0	2	25	24	1	1	24	3	3	1	1	0	0	0	0	0	1	0	3	0
October	9.5	W.	44	S.	3	4	4	9	1	5	12	25	2	0	21	8	2	1	1	2	1	0	0	0	0	19	0	0
November	8.0	W.	38	S.	0	2	9	10	2	1	8	27	1	0	15	10	5	5	5	7	5	0	0	2	0	29	0	0
December	8.9	SW.	51	SW.	3	3	8	6	1	0	26	17	1	0	5	12	14	6	4	7	2	0	6	3	0	26	1	0
Year	10.1	W.	56	S.	32	48	72	60	28	40	196	254	29	3	195	108	62	70	54	52	33	1	6	28	28	185	39	0

MONTGOMERY, ALA.

[H_b=223 ft.; h_t=100 ft.; h_r=71 ft.; h_a=112 ft.]

January	8.0	NE.	23	W.	0	8	15	11	8	10	2	1	7	0	5	10	16	13	11	1	0	0	0	0	0	4	2	0
February	7.6	S.	34	N.	0	11	3	5	9	9	8	4	7	0	6	7	15	11	9	0	0	1	1	0	0	5	7	0
March	8.3	SE.	30	NW.	0	3	3	7	17	10	3	6	13	0	11	8	12	13	11	1	0	1	0	0	0	1	9	0
April	7.2	S.	32	SW.	0	5	7	5	8	18	11	3	2	1	11	11	8	5	5	0	0	0	0	0	0	0	5	0
May	6.1	SE.	25	E.	0	6	10	10	13	6	6	9	2	0	9	7	15	20	14	0	0	0	0	0	3	0	17	0
June	5.0	SW.	22	N.	0	6	11	2	8	6	11	8	8	0	6	16	8	8	7	0	0	0	0	0	15	0	6	0
July	5.4	W.	25	N.	0	5	2	4	4	5	17	20	5	0	10	18	3	11	9	0	0	0	0	0	20	0	11	0
August	5.7	E.	26	N.	0	5	6	20	7	2	10	7	4	1	13	11	7	8	6	0	0	0	0	0	14	0	6	0
September	5.0	NE.	24	SE.	0	3	21	15	8	1	6	1	4	1	19	7	4	7	6	0	0	0	0	0	12	0	8	0
October	8.1	NE.	22	NW.	0	10	20	9	5	5	2	2	7	2	14	4	13	6	6	0	0	0	0	0	0	0	1	0
November	6.5	SE.	26	NW.	0	13	9	11	13	4	2	4	4	0	13	8	9	5	3	1	0	0	0	0	0	0	2	0
December	7.0	SW.	24	NW.	0	11	4	6	12	6	14	3	6	0	8	5	18	11	9	0	0	0	3	0	0	0	3	0
Year	6.5	SE.	34	N.	0	86	111	105	112	82	92	63	69	5	125	112	128	118	96	3	0	2	4	0	64	10	77	0

MOORHEAD, MINN.

[H_b=940 ft.; h_t=50 ft.; h_r=43 ft.; h_a=58 ft.]

January	9.6	* S.	32	N.	0	11	2	0	6	20	4	7	12	0	9	6	16	11	6	18	11	0	0	27	0	31	0	0
February	10.5	N.	36	NW.	0	9	5	1	2	12	5	5	17	0	6	10	12	10	5	16	10	0	0	28	0	28	0	1
March	9.7	S.	34	SE.	0	17	5	4	10	11	10	3	1	1	6	5	20	10	6	12	7	1	0	9	0	30	2	0
April	8.5	N.	28	SW.	0	15	4	6	12	10	6	1	5	1	4	11	15	11	8	6	3	0	0	0	0	8	1	2
May	8.4	S.	30	NW.	0	13	6	2	9	13	8	5	5	1	4	13	14	13	11	0	0	1	0	0	0	0	8	0
June	7.6	N.	27	NW.	0	11	8	3	8	14	9	1	6	0	7	8	15	8	6	0	0	0	0	0	2	0	6	1
July	6.4	NW.	24	NW.	0	12	4	2	8	15	3	5	13	0	3	18	10	8	6	0	0	0	0	0	1	0	8	2
August	6.7	S.	27	N.	0	12	4	2	12	18	5	5	4	0	11	15	5	7	3	0	0	0	1	0	9	0	5	0
September	7.2	S.	27	NW.	0	11	5	5	6	15	3	2	13	0	13	7	10	8	6	0	0	0	3	0	4	0	4	0
October	8.4	N.	36	NW.	0	15	5	2	5	15	4	3	11	2	11	6	14	4	2	2	1	0	0	0	1	10	0	0
November	8.4	N.	30	SE.	0	17	3	6	6	5	9	4	10	0	2	3	25	14	10	9	4	0	1	3	0	18	0	0
December	8.4	S.	32	NW.	0	8	5	1	4	13	8	9	13	1	5	8	18	9	5	13	9	0	1	26	0	31	0	0
Year	8.3	S.	36	NW.	0	151	56	34	88	161	74	50	110	6	81	110	174	113	74	76	45	2	6	93	17	156	34	6

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1922—Continued.

NANTUCKET, MASS.

[ϕ=41° 17′ N.; λ=70° 06′ W.]

Month.	Pressure.			Temperature.								Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	30.101	30.536	28.936	28.5	32.2	30.0	35.7	24.3	30.0	49	8	23	23	24	78	70	76	0.132	0.137	0.137	3.68	1.16	5.9	5.5	3.4	6.3
February	30.063	30.560	29.370	31.6	35.0	32.0	37.7	26.5	32.1	47	6	28	30	28	84	83	85	.158	.175	.161	4.91	1.27	6.9	6.0	4.2	7.6
March	30.051	30.584	29.350	37.3	41.3	37.2	44.3	32.9	38.6	62	18	32	34	34	82	75	87	.192	.204	.201	6.24	1.37	4.5	5.5	4.6	6.0
April	29.990	30.350	29.330	45.1	48.9	43.3	51.3	39.7	45.5	67	31	38	39	38	79	71	84	.238	.246	.238	2.90	.77	3.7	4.5	3.1	5.4
May	30.000	30.453	29.570	56.5	60.5	51.9	62.8	48.4	55.6	76	40	49	50	48	77	71	86	.352	.366	.333	3.44	2.30	3.7	4.3	3.1	4.6
June	29.976	30.240	29.410	64.7	69.0	61.1	71.0	57.9	64.4	81	51	60	60	58	85	75	92	.519	.534	.499	2.61	.96	4.1	5.2	3.9	5.9
July	30.019	30.250	29.650	66.2	69.2	63.8	71.0	60.7	65.8	76	54	63	64	62	90	83	94	.578	.594	.558	5.05	2.09	4.8	5.3	4.8	6.7
August	29.974	30.310	29.655	68.1	71.6	65.4	73.2	63.2	68.2	79	59	65	64	64	90	79	94	.618	.611	.592	8.40	3.53	5.0	4.2	4.0	6.4
September	30.108	30.470	29.689	64.1	68.3	60.7	70.3	57.2	63.8	82	48	58	58	57	81	70	80	.497	.500	.485	.83	.48	3.2	3.5	2.6	4.5
October	29.947	30.500	29.440	54.7	59.4	55.3	62.1	49.7	55.9	81	34	47	48	48	77	68	78	.368	.378	.374	5.34	3.48	3.4	4.4	2.8	5.1
November	29.962	30.350	29.260	43.2	47.6	43.6	50.1	38.9	44.5	62	28	36	36	37	76	64	79	.225	.221	.233	.67	.32	4.8	4.8	5.0	5.6
December	30.081	30.650	29.330	33.5	37.3	35.2	41.1	30.0	35.6	53	19	28	30	30	82	75	82	.166	.176	.177	4.87	1.88	5.9	6.3	5.9	7.5
Year	30.023	30.650	28.936	49.5	53.4	48.3	55.9	44.1	50.0	82	6	44	45	44	82	74	86	.337	.345	.332	48.94	3.53	4.8	5.0	4.0	6.0

NASHVILLE, TENN.

[ϕ=36° 10′ N.; λ=86° 47′ W.]

January	29.616	29.970	28.790	34.3	41.2	41.7	46.8	31.0	38.9	64	19	30	31	30	82	67	65	0.172	0.179	0.179	2.90	0.97	6.3	6.4	6.0	6.5
February	29.561	30.020	29.090	41.5	48.2	47.7	52.8	37.3	45.0	73	19	34	36	36	76	64	66	.221	.245	.236	3.89	1.27	7.7	7.6	6.0	7.5
March	29.499	29.850	28.920	46.9	54.9	53.7	59.2	43.4	51.3	79	26	40	44	42	79	68	67	.268	.308	.287	9.32	2.76	7.5	7.3	6.6	7.2
April	29.492	29.930	28.920	56.2	66.3	66.5	71.0	52.3	61.6	84	38	49	54	53	78	66	64	.368	.445	.426	4.53	1.98	6.8	6.8	4.9	6.5
May	29.395	29.760	28.920	64.5	75.4	72.1	79.0	60.8	69.9	88	49	58	59	59	80	58	66	.494	.509	.514	4.39	1.69	5.4	6.4	6.2	6.3
June	29.437	29.640	29.270	71.8	82.1	80.0	86.1	67.8	77.0	95	59	66	65	66	81	58	64	.637	.620	.646	5.37	1.95	5.2	6.2	5.0	5.3
July	29.482	29.660	29.320	73.7	83.7	80.6	87.7	68.8	78.2	95	58	67	66	66	80	57	63	.667	.655	.650	6.15	2.58	3.8	5.4	5.3	5.0
August	29.447	29.670	29.160	69.9	83.3	79.8	87.1	66.6	76.8	93	57	64	64	64	82	52	60	.602	.599	.612	3.83	2.15	3.6	4.5	4.1	4.3
September	29.517	29.650	29.350	65.9	81.6	77.6	85.0	63.3	74.2	91	53	61	60	61	85	50	58	.543	.530	.547	3.28	1.46	3.1	3.9	2.4	3.2
October	29.467	29.750	29.143	53.1	69.9	67.4	74.2	50.5	62.4	87	37	46	45	45	79	44	47	.331	.323	.316	.75	.59	4.3	3.7	3.7	4.1
November	29.601	29.840	28.950	44.8	56.6	54.7	61.0	41.6	51.3	79	24	38	38	38	77	52	56	.246	.252	.253	1.80	.76	4.0	4.1	3.4	4.0
December	29.541	29.960	28.920	42.6	49.1	48.4	54.8	37.1	46.0	74	18	38	38	38	82	67	69	.244	.252	.256	6.29	2.14	6.8	6.3	5.5	6.5
Year	29.505	30.020	28.790	55.4	66.0	64.2	70.4	51.7	61.0	95	18	49	50	50	80	59	62	.399	.410	.410	52.50	2.76	5.4	5.7	4.9	5.5

NEW HAVEN, CONN.

[ϕ=41° 18′ N.; λ=72° 56′ W.]

January	30.045	30.535	28.733	22.3	29.0	28.5	33.5	19.6	26.6	49	3	16	15	20	75	56	70	0.099	0.097	0.117	2.08	1.34	4.5	4.6	3.5	4.9
February	30.002	30.480	29.280	27.7	33.7	32.4	38.6	24.0	31.3	59	−5	22	22	25	78	63	72	.128	.128	.140	2.84	1.08	6.9	6.5	5.3	6.4
March	29.978	30.540	29.230	35.1	41.8	40.2	46.2	31.4	38.8	70	15	27	26	29	71	55	66	.156	.151	.170	5.01	1.38	4.8	6.6	4.9	5.7
April	29.926	30.297	29.235	45.4	53.0	50.3	58.2	40.2	49.2	82	31	34	32	34	66	49	55	.204	.201	.204	3.06	1.13	5.3	4.9	3.9	4.9
May	29.893	30.356	29.430	59.5	66.6	61.9	71.6	51.7	61.6	83	40	47	46	48	65	51	64	.329	.322	.349	4.65	2.27	2.8	3.8	2.9	3.5
June	29.853	30.110	29.330	66.9	72.9	69.5	76.7	61.2	69.0	90	52	59	60	60	78	66	74	.512	.527	.540	7.32	1.90	5.9	5.6	6.3	6.3
July	29.917	30.160	29.560	70.0	76.0	71.4	79.3	63.9	71.6	91	57	61	63	64	75	66	79	.551	.588	.608	5.14	1.52	4.7	4.9	5.3	5.7
August	29.878	30.217	29.530	67.5	74.7	70.3	78.1	62.5	70.3	91	54	60	61	63	77	64	78	.524	.552	.583	3.01	.92	4.5	5.6	4.8	5.5
September	30.018	30.370	29.570	61.6	70.4	65.8	74.4	56.7	65.6	89	39	55	54	58	79	58	76	.453	.443	.495	1.86	.85	4.4	3.5	3.1	3.9
October	29.874	30.380	29.380	50.6	60.4	56.6	64.1	45.9	55.0	88	29	42	44	45	74	56	66	.310	.327	.338	3.18	1.42	3.4	3.9	3.3	3.7
November	29.910	30.310	29.280	39.8	47.5	44.2	50.8	36.4	43.6	65	24	31	31	32	70	55	64	.185	.186	.194	1.48	.63	4.7	4.8	4.6	4.8
December	30.022	30.565	29.370	28.2	33.2	32.3	37.1	24.6	31.0	53	12	22	23	25	76	67	73	.124	.132	.139	3.70	1.32	6.5	6.2	5.5	6.5
Year	29.943	30.565	28.733	47.9	54.9	52.0	59.1	43.2	51.1	91	−5	40	40	42	74	59	70	.298	.304	.323	43.33	2.27	4.9	5.1	4.4	5.2

NEW ORLEANS, LA.

[ϕ=29° 57′ N.; λ=90° 04′ W.]

January	30.078	30.390	29.480	51.8	58.4	56.5	62.9	49.0	56.0	80	37	48	50	50	86	77	81	0.355	0.390	0.386	5.22	2.18	6.3	7.4	6.7	7.1
February	30.063	30.520	29.680	57.2	67.0	64.2	70.9	54.5	62.7	82	35	53	58	57	86	73	78	.434	.517	.496	3.25	1.20	6.4	6.6	5.4	6.3
March	30.020	30.340	29.670	57.6	66.5	64.1	70.5	54.5	62.5	83	35	53	57	56	86	72	76	.434	.482	.470	8.45	2.24	6.1	5.9	4.7	5.5
April	30.001	30.390	29.750	68.4	77.4	74.3	80.3	66.3	73.3	87	54	62	61	63	81	60	68	.578	.566	.590	3.81	2.50	5.7	6.0	5.6	5.4
May	29.877	30.105	29.630	72.5	80.2	76.3	82.9	68.5	75.7	90	62	67	68	68	84	67	77	.674	.679	.691	5.75	1.42	6.1	7.1	5.5	6.1
June	29.944	30.051	29.770	79.3	84.8	82.2	88.5	75.0	81.8	96	70	73	73	72	81	68	72	.807	.904	.791	6.45	1.19	4.5	6.0	6.4	5.7
July	30.012	30.160	29.860	79.1	84.5	82.1	89.3	75.5	82.4	95	72	74	73	73	84	70	75	.841	.819	.820	4.05	.95	3.0	6.8	6.8	5.5
August	29.920	30.050	29.780	78.7	85.4	82.1	89.9	76.1	83.0	95	71	73	71	72	84	63	72	.817	.755	.783	5.71	1.70	4.5	6.1	6.4	5.8
September	29.950	30.070	29.810	76.6	84.8	80.4	87.0	74.7	80.8	93	71	71	68	69	83	60	71	.763	.708	.726	.93	.26	4.0	6.0	5.3	5.1
October	29.891	30.110	29.718	65.7	75.6	72.7	78.6	64.7	71.6	89	57	58	59	61	77	59	68	.506	.529	.556	3.25	2.06	4.5	4.6	3.3	4.2
November	30.065	30.250	29.690	61.1	71.1	67.3	73.5	59.0	66.6	85	44	54	56	55	78	60	68	.461	.490	.490	3.38	1.88	4.7	6.3	4.9	5.5
December	30.051	30.300	29.660	58.8	67.1	63.4	71.2	55.8	63.5	82	43	56	57	57	90	71	81	.470	.486	.494	7.01	2.54	5.5	6.0	6.2	5.6
Year	29.989	30.520	29.480	67.2	75.2	72.1	78.8	64.5	71.7	96	35	62	63	63	83	67	74	.595	.602	.607	57.26	2.54	5.1	6.2	5.6	5.6

Annual meteorological summary for the year ending December 31, 1922—Continued.

NANTUCKET, MASS.

[H_b=12 ft.; h_t=14 ft.; h_r=4 ft.; h_a=90 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Number of winds, 8 a. m. and 8 p. m. Days with 40 miles and over.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	17.9	NW.	67	NE.	6	5	7	4	1	1	11	13	20	0	8	11	12	10	8	5	3	0	2	9	0	28	0	0
February	15.7	SW.	43	E.	3	4	2	5	3	6	11	10	15	0	5	5	18	13	11	6	5	0	12	4	0	21	0	0
March	17.6	SW.	54	SE.	4	4	6	2	6	6	17	7	14	0	11	7	13	12	12	5	3	0	8	2	0	14	1	0
April	16.9	SW.	48	E.	3	9	5	4	2	5	13	10	12	0	12	8	10	12	9	3	2	0	7	0	0	1	1	0
May	16.2	SW.	45	SE.	2	3	6	3	9	7	25	8	1	0	12	12	7	8	6	0	0	0	9	0	0	0	1	0
June	14.9	SW.	43	SW.	1	0	4	2	14	14	20	5	1	0	10	7	13	7	7	0	0	0	16	0	0	0	1	0
July	16.4	SW.	43	NE.	3	3	20	0	3	12	23	1	0	0	7	7	17	11	9	0	0	0	16	0	0	0	4	0
August	15.4	SW.	37	S.	0	3	10	2	4	13	23	4	3	0	10	5	16	13	9	0	0	0	17	0	0	0	3	0
September	12.7	SW.	36	NE.	0	5	13	7	7	6	19	1	2	0	13	9	8	7	5	0	0	0	5	0	0	0	4	0
October	16.4	SW.	48	SW.	3	5	4	0	5	8	18	6	16	0	11	12	8	7	7	0	0	0	9	0	0	0	2	0
November	16.6	NW.	60	NE.	4	5	6	2	3	1	7	17	19	0	11	7	12	8	4	2	1	0	1	0	0	6	1	0
December	16.3	W.	53	N.	5	8	10	3	4	4	6	16	11	0	5	6	20	11	10	4	4	0	8	3	0	26	0	0
Year	16.1	SW.	67	NE.	34	54	93	34	61	83	193	98	114	0	115	96	154	119	97	25	18	0	110	18	0	90	18	0

NASHVILLE, TENN.

[H_b=546 ft.; h_t=168 ft.; h_r=161 ft.; h_a=191 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	10.3	NE.	37	NW.	0	7	18	7	2	8	7	3	10	0	7	7	17	14	8	4	2	0	0	0	0	20	1	0
February	11.8	S.	48	W.	2	8	7	4	4	11	8	3	11	0	3	7	18	12	10	3	1	0	0	2	0	9	2	0
March	12.4	S.	44	W.	4	3	5	9	13	11	1	12	8	0	6	6	19	15	11	1	0	1	0	1	0	4	3	0
April	11.7	S.	54	NW.	2	4	11	6	9	13	7	6	4	0	4	13	13	11	10	0	0	0	1	0	0	0	4	0
May	7.5	SE.	38	NE.	0	2	5	10	17	9	1	10	8	0	7	10	14	12	10	0	0	0	1	0	0	0	9	0
June	6.6	W.	28	S.	0	2	13	6	4	8	9	10	8	0	9	11	10	10	7	0	0	0	0	0	8	0	9	0
July	6.8	SW.	42	NW.	1	10	10	0	2	11	10	14	5	0	10	15	6	12	10	0	0	0	1	0	11	0	11	0
August	6.4	W.	48	E.	1	7	11	6	12	7	4	4	10	1	15	9	7	6	4	0	0	1	2	0	8	0	7	0
September	6.0	NE.	42	NE.	1	6	13	13	11	3	2	5	7	0	16	10	4	5	5	0	0	0	4	0	9	0	7	0
October	7.6	NE.	32	NW.	0	8	12	7	6	7	6	8	5	3	16	6	9	5	2	0	0	0	0	0	0	0	1	0
November	9.7	S.	43	S.	1	3	6	6	6	12	4	9	14	0	15	8	7	6	6	0	0	0	0	0	0	7	0	0
December	10.9	NE.	45	SE.	1	10	8	5	8	10	7	6	7	1	7	7	17	18	15	1	0	0	0	0	0	8	4	0
Year	9.0	NE.	54	NW.	13	70	119	79	94	110	66	90	97	5	115	109	141	126	98	9	3	2	9	3	36	48	58	0

NEW HAVEN, CONN.

[H_b=106 ft.; h_t=74 ft.; h_r=68 ft.; h_a=153 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	9.0	NE.	34	NE.	0	16	14	0	0	1	15	8	8	0	13	8	10	11	6	8	6	0	1	10	0	29	0	0
February	9.6	N.	32	NW.	0	13	9	1	3	5	11	8	6	0	6	10	12	8	7	8	4	0	1	5	0	24	0	0
March	10.3	NE.	42	S.	1	8	17	2	3	3	9	5	15	0	10	8	13	14	13	7	2	0	0	2	0	15	0	0
April	10.2	N.	38	NW.	0	5	8	1	2	8	11	7	18	0	14	5	11	10	9	3	0	0	1	0	0	2	1	0
May	9.8	SW.	32	NW.	0	5	12	2	5	7	18	9	4	0	16	11	4	6	5	0	0	0	0	0	0	0	0	0
June	8.1	S.	32	W.	0	5	8	4	6	13	15	7	2	0	8	8	14	17	12	0	0	1	0	0	2	0	8	0
July	7.8	S.	25	SW.	0	5	14	6	5	9	16	5	2	0	9	11	11	16	15	0	0	0	0	0	1	0	10	0
August	8.6	SW.	29	NE.	0	10	16	2	2	5	16	6	5	0	11	8	12	8	8	0	0	0	0	0	1	0	7	0
September	7.5	SW.	32	NW.	0	9	13	3	4	12	11	7	1	0	14	10	6	5	3	0	0	0	0	0	0	0	3	0
October	9.4	SW.	40	SW.	1	15	9	1	2	4	16	5	10	0	13	7	6	5	5	0	0	0	1	0	0	3	2	1
November	9.2	SW.	30	NW.	0	10	12	1	1	0	10	15	11	0	14	7	9	7	5	3	1	0	0	0	0	8	1	0
December	8.9	NE.	48	NE.	3	15	19	0	4	3	9	8	4	0	8	6	17	13	12	8	3	0	1	7	0	25	0	0
Year	9.0	SW.	48	NE.	5	116	151	23	37	70	157	90	86	0	141	99	125	120	100	37	16	1	5	24	4	106	32	1

NEW ORLEANS, LA.

[H_b=53 ft.; h_t=76 ft.; h_r=71 ft.; h_a=84 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	8.5	NE.	42	NE.	1	7	20	9	7	8	5	3	3	0	7	6	18	15	11	0	0	0	2	0	0	0	0	0
February	7.6	SE.	31	N.	0	7	7	7	11	7	11	3	3	0	4	13	11	12	9	0	0	0	4	0	0	0	4	0
March	8.9	SE.	29	SW.	0	12	6	7	13	11	4	5	4	0	12	8	11	12	11	0	0	0	0	0	0	0	7	0
April	8.1	S.	24	S.	0	2	8	2	11	25	4	4	4	0	9	13	8	7	6	0	0	0	0	0	0	0	4	0
May	6.5	SE.	34	NE.	0	7	9	4	11	11	7	7	6	0	4	18	9	12	10	0	0	0	0	0	0	0	9	0
June	4.7	SE.	19	SW.	0	5	3	6	12	11	3	8	10	2	7	17	6	15	13	0	0	0	0	0	12	0	18	0
July	4.9	SW.	27	NE.	0	5	2	1	4	8	23	11	7	1	7	17	7	11	10	0	0	1	0	0	14	0	19	0
August	5.3	W.	28	NE.	0	5	7	5	9	7	11	10	8	0	7	14	10	12	12	0	0	0	0	0	17	0	14	0
September	6.1	SE.	23	E.	0	1	17	8	17	11	3	1	2	0	11	12	7	6	6	0	0	0	0	0	6	0	7	0
October	7.3	NE.	24	E.	0	10	20	14	9	1	3	1	4	0	14	10	7	8	6	0	0	0	1	0	0	0	3	0
November	7.0	NE.	23	W.	0	2	22	13	9	5	2	3	4	0	8	12	10	6	5	0	0	0	2	0	0	0	2	0
December	6.3	S.	22	NW.	0	3	10	1	10	16	12	5	5	0	9	12	10	10	8	0	0	0	1	0	0	0	6	0
Year	6.8	SE.	42	NE.	1	66	131	77	123	121	88	61	60	3	99	152	114	126	107	0	0	1	10	0	49	0	93	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

NEW YORK, N. Y.

[ϕ=40° 43′ N.; λ=74° 00′ W.]

Month.	Pressure.			Temperature.								Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.812	30.310	28.445	36.3	31.2	30.2	35.7	22.3	29.0	50	6	16	18	17	64	56	57	0.101	0.109	0.106	2.46	1.02	4.5	4.5	3.8	5.6
February	29.772	30.250	29.090	30.8	35.4	34.9	42.3	26.7	34.5	66	−2	23	24	24	73	64	64	.136	.143	.141	2.97	.89	7.3	5.9	5.4	6.7
March	29.745	30.320	29.040	38.5	43.7	42.5	48.9	33.7	41.3	72	17	29	29	30	68	58	63	.173	.190	.180	4.35	.98	5.7	6.1	4.9	6.3
April	29.709	30.080	28.950	47.4	54.1	52.1	59.5	42.4	51.0	82	31	37	36	35	68	52	55	.237	.230	.222	1.96	.58	5.3	4.9	4.7	5.4
May	29.668	30.138	29.150	59.8	64.4	63.7	72.5	54.6	63.6	83	44	48	48	48	67	51	60	.345	.350	.344	3.24	2.14	3.9	3.8	4.1	4.7
June	29.635	29.870	29.110	68.2	74.1	70.6	77.4	63.9	70.6	87	53	60	59	61	77	62	75	.534	.517	.558	7.86	2.18	6.0	5.8	6.8	6.7
July	29.703	29.920	29.395	70.3	76.7	72.0	80.0	65.4	72.7	91	59	63	62	64	78	63	77	.584	.575	.598	6.55	2.47	5.7	5.5	5.0	6.4
August	29.664	29.990	29.340	68.4	74.8	71.4	78.3	64.5	71.4	91	55	62	61	62	81	64	73	.568	.545	.565	5.32	2.16	6.3	6.1	5.8	6.6
September	29.799	30.130	29.390	63.5	70.8	67.4	74.4	60.5	67.4	89	46	58	56	57	82	61	71	.501	.471	.486	3.05	1.53	4.5	3.8	4.1	4.6
October	29.660	30.133	29.190	53.7	61.7	58.4	65.3	50.0	57.6	87	34	45	46	45	74	57	64	.341	.347	.342	1.17	.38	3.1	4.0	3.0	3.9
November	29.703	30.080	29.110	42.4	48.5	45.8	51.8	38.9	45.4	65	27	33	32	34	71	54	64	.203	.194	.207	1.16	.55	5.8	4.8	4.5	6.2
December	29.793	30.310	29.080	32.5	35.8	35.3	40.5	28.1	34.3	56	13	25	25	26	73	66	68	.142	.142	.145	3.29	1.14	7.4	6.8	4.2	7.3
Year	29.722	30.320	28.445	50.2	56.3	53.7	60.6	45.9	53.2	91	−2	42	41	42	73	59	66	.322	.317	.324	43.38	2.47	5.5	5.2	4.7	5.9

NORFOLK, VA.

[ϕ=36° 51′ N.; λ=76° 17′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	30.082	30.540	28.880	35.5	40.7	39.0	46.3	32.1	39.2	69	20	28	29	29	76	63	67	0.169	0.173	0.171	3.49	1.02	7.7	7.5	5.0	7.3
February	30.053	30.490	29.510	41.0	46.8	45.2	52.7	37.0	44.8	74	13	35	36	37	82	66	73	.226	.233	.236	4.85	1.25	7.3	7.1	5.6	7.0
March	30.030	30.550	29.330	46.7	53.8	51.7	60.1	42.2	51.2	79	31	40	39	41	77	60	70	.272	.266	.277	4.95	1.19	5.0	5.4	5.8	5.5
April	30.009	30.370	29.330	56.1	62.9	60.0	68.4	51.0	59.7	87	39	46	43	46	70	51	62	.329	.305	.328	1.88	1.39	5.1	4.7	4.3	5.2
May	29.912	30.400	29.360	66.0	73.5	67.2	76.9	58.9	67.9	85	47	56	53	56	73	52	68	.470	.425	.456	3.42	2.25	4.9	6.0	4.3	5.7
June	29.904	30.110	29.590	72.5	79.7	74.4	83.8	68.0	75.9	91	60	66	64	66	81	61	77	.645	.616	.651	9.78	3.12	5.5	5.3	7.1	5.9
July	29.949	30.140	29.740	74.8	79.9	76.5	85.6	70.4	78.0	92	65	71	69	70	88	67	82	.756	.717	.736	11.92	3.47	6.4	5.9	5.6	6.3
August	29.921	30.191	29.670	72.2	79.4	74.3	82.5	67.6	75.0	90	60	67	65	67	84	62	79	.669	.624	.661	8.04	2.62	6.0	6.7	5.5	6.3
September	30.013	30.310	29.760	70.5	77.9	71.4	80.6	66.5	73.6	92	58	64	62	63	80	59	76	.605	.568	.597	.53	.38	5.3	5.3	2.8	5.2
October	29.946	30.340	29.580	59.6	68.3	63.8	71.8	56.8	64.3	87	43	54	51	54	82	56	71	.445	.410	.440	2.75	.87	5.4	3.9	3.5	4.5
November	30.030	30.400	29.490	46.9	55.6	52.7	59.0	44.5	51.8	74	27	40	38	39	78	53	62	.272	.247	.267	.44	.25	3.6	3.0	2.5	3.4
December	30.050	30.480	29.250	43.1	49.4	47.1	54.1	39.0	46.6	68	26	38	38	40	84	67	78	.247	.247	.292	2.93	.86	7.2	7.3	6.7	7.2
Year	29.992	30.550	28.880	57.1	64.1	60.3	68.5	52.8	60.7	92	13	50	49	51	80	60	72	.425	.403	.424	54.98	3.47	5.8	5.7	4.9	5.8

NORTHFIELD, VT.

[ϕ=44° 10′ N.; λ=72° 41′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.169	29.662	28.110	5.1	18.0	12.6	24.7	−0.2	12.2	49	−28	2	8	8	88	64	80	0.056	0.069	0.065	1.21	0.64	5.5	4.3	5.3	4.9
February	29.109	29.580	28.330	12.9	22.1	19.7	30.9	5.5	18.2	52	−21	9	14	15	84	69	80	.075	.089	.093	3.14	1.29	6.7	5.5	5.3	6.4
March	29.112	29.630	28.372	25.5	34.6	30.5	39.0	19.3	29.2	65	−4	20	23	23	81	63	73	.119	.129	.130	4.55	1.16	6.2	6.5	5.4	6.7
April	29.061	29.488	28.430	39.4	47.0	41.2	51.7	29.0	40.4	76	14	32	33	33	75	61	72	.186	.195	.191	2.88	.91	5.6	7.1	4.8	6.3
May	29.069	29.480	28.580	54.2	64.3	56.7	68.5	40.4	54.4	83	24	48	49	48	75	61	73	.321	.360	.336	2.51	.87	4.3	5.7	4.3	5.3
June	29.015	29.270	28.420	61.8	69.2	62.6	72.8	52.9	62.8	86	38	58	60	59	87	74	89	.485	.525	.508	7.88	1.80	7.2	7.8	7.6	7.5
July	29.089	29.307	28.820	65.7	74.3	66.5	77.9	52.9	65.4	89	40	60	61	61	83	64	82	.525	.540	.536	1.18	.44	4.9	6.0	4.3	5.7
August	29.063	29.433	28.620	60.3	72.0	63.5	75.5	52.3	63.9	88	37	56	59	59	88	65	87	.464	.511	.514	4.18	1.95	6.5	6.0	6.8	6.5
September	29.132	29.514	28.720	53.4	66.9	56.3	70.9	44.8	57.8	88	25	50	56	53	91	69	90	.385	.463	.423	2.36	1.27	5.6	4.3	3.3	5.3
October	29.015	29.498	28.450	42.3	51.5	44.7	55.9	34.2	45.0	85	14	38	43	40	85	73	82	.252	.300	.265	1.63	.55	6.9	5.9	6.0	6.6
November	29.032	29.415	28.320	32.2	38.2	36.0	42.9	27.7	35.3	59	8	29	31	30	87	74	80	.167	.179	.175	.78	.18	8.1	8.2	8.3	8.1
December	29.142	29.613	28.789	16.5	23.3	19.8	28.9	8.4	18.6	55	−24	13	17	15	86	76	82	.092	.101	.093	1.85	.74	8.0	8.2	6.1	8.0
Year	29.088	29.662	28.110	39.1	48.4	42.5	53.3	30.6	41.9	89	−28	35	38	37	84	68	81	.261	.288	.277	34.15	1.95	6.3	6.3	5.6	6.4

NORTH HEAD, WASH.

[ϕ=46° 16′ N.; λ=124° 04′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.897	30.380	29.470	38.2	41.6	41.5	44.4	35.2	39.8	60	24	33	36	36	82	83	83	0.195	0.220	0.219	3.43	0.67	5.8	5.3	5.5	4.6
February	29.745	30.180	29.100	38.3	41.5	42.2	44.2	35.8	40.0	57	26	33	35	36	81	80	80	.192	.208	.215	3.54	.77	6.0	7.1	6.7	6.1
March	29.768	30.267	29.300	40.2	43.3	43.3	45.3	38.1	41.7	55	33	36	39	38	86	85	83	.216	.238	.231	7.45	2.10	8.0	8.1	7.7	7.0
April	29.950	30.350	29.420	43.1	46.7	46.3	48.3	40.8	44.6	71	36	39	41	41	87	83	83	.242	.260	.257	3.88	.76	7.9	7.4	7.0	5.7
May	29.879	30.266	29.520	48.7	52.8	52.6	55.8	45.6	50.7	85	35	43	45	46	84	80	80	.290	.305	.308	2.54	.79	6.3	6.9	6.7	5.5
June	29.843	30.130	29.640	52.6	56.0	56.4	57.8	51.7	54.8	62	48	49	51	51	89	84	82	.349	.374	.372	.35	.31	8.4	7.3	6.7	5.8
July	29.913	30.080	29.723	52.9	56.2	56.6	58.0	51.7	54.8	63	48	51	53	53	94	89	89	.373	.403	.405	.08	.03	8.3	7.8	6.4	6.2
August	29.811	29.990	29.540	55.5	58.8	58.6	60.4	54.3	57.4	76	49	55	56	56	97	92	93	.427	.457	.458	.276	1.50	8.8	7.4	7.6	7.5
September	29.807	30.120	29.460	55.7	58.8	57.7	60.6	53.0	56.8	80	49	52	54	54	89	86	89	.392	.422	.420	3.24	1.01	7.0	6.5	6.1	7.0
October	29.779	30.180	29.400	52.4	55.2	54.7	57.5	50.7	54.1	72	42	50	51	52	91	87	90	.357	.377	.363	5.79	2.17	6.5	7.8	7.9	5.7
November	29.886	30.289	29.390	45.1	50.1	49.3	52.0	43.5	47.8	59	36	39	41	42	81	74	76	.242	.261	.265	3.54	.59	5.0	5.6	6.1	4.5
December	29.709	30.174	28.920	41.0	42.4	42.2	45.1	37.5	41.4	54	25	37	39	39	86	87	89	.233	.245	.252	8.60	1.41	7.1	7.5	7.8	3.2
Year	29.832	30.380	28.920	47.0	50.3	50.1	52.4	44.8	48.7	85	24	43	45	45	87	84	85	.292	.314	.315	45.08	2.17	7.1	7.1	6.8	6.2

Annual meteorological summary for the year ending December 31, 1922—Continued.

NEW YORK, N. Y.

[H_b=314 ft.; h_t=414 ft.; h_r=407 ft.; h_a=454 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	18.1	NW.	67	NW.	11	8	12	3	0	3	7	11	18	0	10	10	11	8	5	7	4	0	1	7	0	28	0	0
February	18.9	NW.	64	NW.	10	7	3	7	4	4	6	9	16	0	5	10	13	13	7	5	4	0	4	3	0	17	1	0
March	18.7	NW.	70	S.	12	4	9	8	2	6	6	7	20	0	6	11	14	13	13	6	4	0	1	1	0	10	3	0
April	16.8	NW.	72	NW.	10	10	1	5	2	12	7	9	14	0	9	12	9	8	8	0	0	0	0	0	0	1	2	0
May	12.9	SW.	60	NW.	5	5	6	8	4	15	11	5	8	0	12	13	6	9	7	0	0	0	0	0	0	0	1	0
June	13.1	S.	75	NW.	5	6	3	8	4	16	9	5	9	0	3	12	15	16	13	0	0	0	3	0	0	0	11	0
July	11.2	S.	60	S.	5	8	10	2	8	14	10	6	4	0	7	11	13	13	10	0	0	1	1	0	1	0	9	0
August	13.3	SW.	43	NW.	3	7	9	6	2	12	15	5	6	0	8	7	16	16	11	0	0	0	0	0	1	0	8	0
September	10.3	S.	52	NW.	2	12	5	6	7	11	9	4	6	0	15	6	9	5	4	0	0	0	1	0	0	0	3	0
October	16.6	NW.	60	NW.	7	8	1	3	3	9	12	8	18	0	18	5	8	8	6	0	0	0	4	0	0	0	2	0
November	18.9	NW.	64	NW.	11	6	3	1	1	4	13	10	22	0	7	11	12	6	6	3	1	0	2	0	0	7	1	0
December	15.3	NW.	63	NE.	8	8	7	9	3	5	6	10	14	0	5	10	16	12	10	7	5	0	6	4	0	21	0	0
Year	15.3	NW.	75	NW.	89	89	69	66	40	111	111	89	155	0	105	118	142	127	100	28	18	1	23	15	2	84	41	0

NORFOLK, VA.

[H_b=91 ft.; h_t=170 ft.; h_r=178 ft.; h_a=205 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	16.4	NE.	52	SW.	5	4	26	0	3	7	8	4	10	0	5	7	19	12	9	5	2	0	1	3	0	16	0	0
February	14.3	NE.	42	NE.	2	3	15	2	7	11	7	5	6	0	5	6	17	12	11	3	2	0	4	2	0	7	3	0
March	14.6	NE.	54	NW.	4	3	14	5	6	14	9	5	6	0	10	8	13	13	11	1	0	0	1	0	0	2	2	0
April	14.1	NE.	50	SW.	2	4	15	4	8	7	12	5	5	0	11	10	9	7	3	0	0	0	0	0	0	0	1	0
May	11.8	SE.	44	NE.	1	4	7	10	14	12	10	3	2	0	8	13	10	12	7	0	0	1	0	0	0	0	6	0
June	10.6	S.	40	N.	1	2	3	3	13	16	10	6	7	0	10	5	15	13	13	0	0	0	0	0	3	0	13	0
July	10.3	SW.	52	NW.	2	1	11	4	12	12	16	2	4	0	6	13	12	15	13	0	0	1	0	0	7	0	9	0
August	10.9	S.	38	NW.	0	2	11	6	8	13	16	0	6	0	5	13	13	13	10	0	0	1	1	0	1	0	10	0
September	10.4	NE.	30	NE.	0	3	27	4	12	3	5	3	3	0	7	18	5	5	3	0	0	0	1	0	1	0	0	0
October	11.9	NE.	40	NW.	1	7	12	10	3	10	9	6	5	0	15	8	8	9	9	0	0	0	3	0	0	0	2	0
November	12.7	N.	48	NW.	1	15	5	4	2	12	9	7	6	0	17	7	6	3	3	1	0	0	3	0	0	2	0	0
December	12.8	NE.	42	SW.	1	5	17	6	6	8	10	5	5	0	5	8	18	16	12	2	2	0	5	1	0	4	1	0
Year	12.6	NE.	54	NW.	20	53	163	58	94	125	121	51	65	0	104	116	145	130	104	12	6	3	19	6	12	31	47	0

NORTHFIELD, VT.

[H_b=876 ft.; h_t=12 ft.; h_r=3 ft.; h_a=60 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	7.4	S.	34	SW.	0	14	4	0	2	26	8	2	5	1	11	11	9	10	8	12	9	0	0	23	0	31	0	2
February	8.4	S.	36	N.	0	8	5	1	4	17	13	2	4	2	6	9	13	14	11	15	12	0	0	15	0	28	0	1
March	7.3	S.	39	S.	0	19	3	0	3	25	9	1	1	1	6	9	16	13	12	11	9	0	0	4	0	27	1	1
April	8.2	S.	39	SW.	0	8	5	2	2	20	9	1	10	3	6	13	11	14	12	8	5	0	2	0	0	20	3	1
May	7.5	S.	34	S.	0	11	13	0	1	25	8	0	4	0	11	11	9	8	8	0	0	0	1	0	0	4	2	0
June	6.4	S.	30	SW.	0	8	8	3	4	24	13	2	2	1	1	14	15	22	17	0	0	1	2	0	0	0	8	0
July	5.9	SW.	23	SE.	0	6	13	2	2	20	14	3	2	0	6	16	9	8	4	0	0	0	2	0	0	0	3	1
August	5.5	S.	28	SW.	0	12	7	2	3	24	9	3	2	0	6	10	15	13	10	0	0	0	2	0	0	0	8	0
September	6.0	S.	26	N.	0	10	5	0	3	30	7	3	2	0	10	10	10	5	5	0	0	0	12	0	0	3	5	0
October	8.3	S.	31	N.	0	11	4	0	1	24	12	1	7	2	6	11	14	10	6	6	3	0	3	0	0	16	1	0
November	7.0	N.	24	S.	0	18	4	0	2	15	11	1	9	0	3	3	24	13	7	8	6	0	0	5	0	19	0	0
December	8.0	S.	37	SW.	0	14	1	0	1	24	12	3	7	0	4	5	22	12	10	16	11	0	0	19	0	30	0	0
Year	7.2	S.	39	S.	0	139	67	10	28	274	125	22	55	10	76	122	167	142	110	76	55	1	24	66	0	178	31	6

NORTH HEAD, WASH.

[H_b=211 ft.; h_t=11 ft.; h_r=3 ft.; h_a=56 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	11.7	SE.	64	S.	8	11	4	13	15	9	3	4	2	1	13	10	8	18	16	5	3	0	0	0	0	10	0	0
February	16.5	E.	64	S.	8	4	1	17	10	10	4	4	6	0	6	9	13	18	16	6	1	0	0	0	0	3	0	0
March	18.0	S.	76	S.	14	5	1	6	13	8	5	8	16	0	7	8	16	23	21	2	1	0	0	0	0	0	0	0
April	17.6	NW.	66	S.	8	8	1	2	3	6	4	10	25	1	9	11	10	18	15	0	0	0	0	0	0	0	0	0
May	15.5	N.	70	S.	5	13	1	3	5	15	8	5	12	0	6	13	7	16	12	1	0	0	2	0	0	0	0	0
June	15.4	NW.	43	N.	1	19	1	1	1	5	4	4	25	0	6	15	9	3	2	0	0	0	0	0	0	0	0	0
July	15.1	N.	40	NW.	1	25	1	0	0	1	1	3	31	0	6	14	11	2	0	0	0	0	2	0	0	0	0	0
August	15.1	N.	54	S.	1	24	1	0	3	16	2	6	10	0	3	9	19	9	7	0	0	0	5	0	0	0	1	0
September	15.2	N.	50	S.	6	14	2	2	9	15	3	3	12	0	7	4	19	13	12	0	0	0	2	0	0	0	1	0
October	10.7	N.	58	S.	5	19	3	6	10	17	1	1	5	0	10	9	12	16	11	0	0	0	4	0	0	0	1	0
November	11.8	E.	62	S.	6	7	0	25	16	4	1	2	5	0	14	9	7	15	13	0	0	0	0	0	0	0	0	0
December	21.6	S.	78	S.	17	3	1	12	11	18	3	9	5	0	4	2	25	22	20	4	1	0	2	0	0	7	1	0
Year	15.4	NW.	78	S.	80	152	17	87	96	124	39	59	154	2	91	118	156	173	145	18	6	0	17	0	0	20	4	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

NORTH PLATTE, NEBR.

[ϕ=41° 08′ N.; λ=100° 45′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	27.120	27.800	26.510	12.3	29.9	25.6	35.3	7.9	21.6	58	−11	9	17	15	85	58	64	0.069	0.096	0.087	0.66	0.49	3.1	3.8	3.7	3.9
February	27.109	27.700	26.710	13.7	32.3	29.6	38.0	10.6	24.3	61	−4	9	17	16	81	53	58	.068	.094	.094	.05	.05	2.8	3.8	4.3	4.2
March	27.035	27.600	26.490	25.8	48.7	45.7	53.5	24.0	38.8	77	2	22	25	24	83	44	44	.122	.137	.130	.47	.24	3.7	5.3	6.1	5.3
April	27.040	27.470	26.510	38.8	55.4	54.9	59.6	36.6	48.1	77	25	34	33	33	85	49	50	.204	.200	.197	2.01	1.22	6.8	6.5	5.7	5.8
May	27.041	27.370	26.440	50.1	68.6	66.4	72.4	46.6	59.5	86	35	44	44	45	82	46	50	.305	.315	.319	2.53	1.39	5.4	5.1	4.7	4.9
June	27.084	27.420	26.680	61.6	82.6	82.3	86.4	59.2	72.8	99	46	56	56	55	83	42	41	.456	.457	.438	.87	.43	2.0	2.5	2.7	2.1
July	27.141	27.400	26.592	62.2	80.1	79.9	85.2	60.2	72.7	98	48	59	60	60	89	52	53	.505	.524	.531	4.91	1.87	5.5	3.5	4.8	3.8
August	27.118	27.280	26.904	63.4	87.0	84.7	91.2	62.3	76.8	102	48	59	58	60	86	40	46	.504	.497	.532	2.26	1.09	3.6	1.4	2.5	2.0
September	27.151	27.470	26.853	53.6	79.5	75.0	83.6	52.0	67.8	98	39	47	48	49	78	34	41	.326	.339	.358	1.00	.81	3.4	2.2	2.0	2.8
October	27.101	27.390	26.600	38.7	67.0	59.3	71.4	35.8	53.6	89	16	30	30	30	73	28	35	.177	.172	.170	.14	.14	3.5	2.9	2.5	3.1
November	27.133	27.500	26.300	21.6	46.8	40.2	50.4	27.1	38.8	65	11	27	30	29	83	55	65	.155	.174	.163	2.35	1.70	4.2	4.8	2.9	4.8
December	27.086	27.490	26.470	18.6	36.6	29.9	40.6	14.9	27.8	62	−6	14	19	17	81	50	58	.084	.106	.096	.01	.01	2.5	4.7	4.0	5.0
Year	27.097	27.700	26.300	39.2	59.5	56.1	64.0	36.4	50.2	102	−11	34	36	36	82	46	50	.248	.259	.260	17.26	1.87	3.9	3.9	3.8	4.0

OKLAHOMA CITY, OKLA.

[ϕ=35° 26′ N.; λ=97° 33′ W.]

January	28.856	29.280	28.320	29.6	38.4	37.3	44.2	26.1	35.2	68	10	24	24	24	78	60	60	0.134	0.139	0.139	1.15	0.71	6.0	6.6	5.7	6.2
February	28.776	29.267	28.330	34.3	46.7	46.9	54.5	31.1	42.8	80	12	25	25	25	69	47	46	.148	.148	.151	.64	.33	4.9	6.6	4.1	5.4
March	28.692	29.170	28.210	40.8	53.9	54.0	59.5	38.4	49.0	79	6	35	35	37	80	56	57	.221	.229	.240	4.37	1.86	5.6	5.0	4.6	5.5
April	28.661	29.180	28.160	53.2	64.1	63.3	69.1	50.9	60.0	85	36	47	47	47	82	59	62	.339	.346	.351	7.67	2.99	5.6	6.2	6.1	6.1
May	28.630	28.880	28.310	62.5	74.6	73.8	78.0	59.7	68.8	90	53	58	61	62	87	65	68	.499	.551	.565	6.83	2.82	6.8	5.7	4.6	5.7
June	28.716	28.930	28.480	70.5	85.0	83.8	88.2	67.6	77.9	99	55	65	65	64	83	52	53	.615	.618	.608	.30	.21	6.7	4.8	3.8	4.9
July	28.724	29.000	28.420	73.4	88.2	88.3	93.3	70.8	82.0	105	58	66	64	65	78	48	49	.640	.602	.633	2.31	1.74	4.9	4.7	2.0	3.4
August	28.700	28.847	28.514	73.8	92.1	89.5	96.5	72.2	84.4	107	62	64	63	62	74	40	42	.609	.582	.567	.19	.16	4.9	3.2	1.6	3.1
September	28.776	29.000	28.560	65.5	85.4	81.2	89.9	64.0	77.0	101	50	56	57	55	74	39	41	.468	.474	.435	.90	.80	1.9	2.0	.7	1.6
October	28.736	29.120	28.390	53.1	70.7	65.8	75.1	51.5	63.3	90	39	47	52	50	80	53	59	.335	.395	.377	4.30	2.53	3.6	3.6	2.1	3.1
November	28.843	29.140	28.460	44.5	56.8	52.8	60.9	41.7	51.3	75	29	39	42	42	82	60	67	.250	.287	.275	2.37	1.18	3.8	3.7	1.5	3.1
December	28.772	29.230	28.340	36.4	47.4	45.1	53.0	32.1	42.6	73	18	29	30	30	74	54	59	.177	.182	.181	.53	.45	5.2	4.4	4.0	4.8
Year	28.740	29.280	28.160	53.1	66.9	65.2	71.8	50.5	61.2	107	6	46	47	47	78	53	55	.370	.379	.377	31.56	2.99	5.0	4.7	3.4	4.4

OMAHA, NEBR.

[ϕ=41° 16′ N.; λ=95° 56′ W.]

January	28.952	29.570	28.376	19.2	26.4	26.6	32.1	15.1	23.6	50	−5	13	15	16	74	61	65	0.081	0.091	0.097	0.94	0.41	4.1	4.0	4.1	4.3
February	28.920	29.610	28.160	21.0	27.2	27.5	35.5	14.2	24.8	59	−5	13	15	17	73	59	62	.092	.092	.099	.91	.83	2.5	3.9	4.2	3.7
March	28.816	29.480	28.170	33.5	43.4	45.5	49.9	31.2	40.6	71	7	28	32	33	80	64	63	.160	.183	.198	1.47	1.02	5.7	5.5	4.7	5.5
April	28.787	29.230	28.070	45.4	56.7	57.6	61.8	43.4	52.6	83	30	39	40	40	78	57	56	.241	.259	.266	2.12	1.06	6.0	5.1	4.7	5.6
May	28.741	29.080	28.310	58.0	69.6	69.3	73.8	55.4	64.6	88	46	50	50	50	76	53	54	.377	.377	.378	2.37	1.29	4.3	6.0	3.5	5.0
June	28.793	29.080	28.420	68.3	81.5	81.6	86.1	65.0	75.6	98	52	59	60	60	74	49	49	.511	.527	.522	2.68	1.02	4.3	3.0	3.2	3.5
July	28.832	29.130	28.410	68.1	78.8	79.4	83.4	64.7	74.0	91	56	62	63	64	80	61	61	.555	.593	.611	5.60	1.95	4.3	4.9	3.4	4.5
August	28.801	28.951	28.539	69.7	83.1	82.6	87.9	67.5	77.7	102	57	63	65	65	80	57	57	.587	.633	.634	1.01	.80	2.7	3.3	2.2	3.0
September	28.873	29.260	28.528	61.8	76.9	73.8	81.5	60.5	71.0	101	50	54	56	57	76	51	58	.445	.461	.482	1.29	.78	3.4	2.9	2.3	3.1
October	28.809	29.200	28.350	49.9	65.8	62.8	71.3	47.8	59.6	90	27	41	42	41	73	44	47	.272	.278	.270	1.45	1.13	2.5	2.9	2.4	3.2
November	28.873	29.232	28.240	39.7	47.2	45.3	51.8	36.5	44.2	72	25	35	37	35	81	70	70	.211	.235	.216	2.55	1.16	4.2	4.8	4.4	4.6
December	28.885	29.410	28.300	22.3	30.9	30.7	36.9	17.5	27.2	58	−5	16	20	20	76	63	63	.098	.116	.113	.07	.03	4.0	4.5	3.6	5.1
Year	28.840	29.610	28.070	46.3	57.3	56.9	62.7	43.2	53.0	102	−5	39	41	42	77	57	59	.302	.320	.324	22.46	1.95	4.0	4.2	3.6	4.3

OSWEGO, N. Y.

[ϕ=43° 29′ N.; λ=76° 35′ W.]

January	29.782	30.370	29.010	17.8	22.2	22.0	27.6	12.6	20.1	45	−8	14	16	17	84	76	81	0.086	0.095	0.098	1.41	0.53	7.8	6.8	5.9	6.9
February	29.710	30.240	28.950	24.0	27.6	27.3	33.8	18.9	26.4	58	−9	20	22	22	84	78	79	.115	.124	.122	3.00	1.11	8.9	8.0	7.5	7.8
March	29.714	30.200	29.020	32.1	35.4	35.3	40.8	27.5	34.2	59	11	27	27	29	80	72	77	.152	.155	.162	3.42	.97	7.8	7.2	6.0	7.1
April	29 668	30.140	28.790	42.0	44.7	45.3	51.3	37.2	44.2	72	26	35	36	36	76	72	71	.209	.219	.222	3.68	1.28	6.3	5.7	5.5	5.3
May	29.621	30.080	28.930	56.3	60.0	58.5	65.4	48.3	56.8	83	36	46	46	45	71	62	64	.323	.318	.310	1.71	.61	4.9	3.9	4.5	4.5
June	29.579	29.850	29.050	62.7	66.2	64.8	71.4	56.8	64.1	88	49	57	57	57	82	75	77	.469	.481	.473	5.89	1.53	5.9	5.4	6.1	5.5
July	29.639	29.860	29.330	67.1	71.0	70.6	76.0	61.7	68.8	89	55	60	60	61	80	70	72	.529	.529	.544	2.56	1.28	5.5	4.3	4.0	4.5
August	29.613	29.960	29.140	65.4	72.2	69.0	75.3	60.5	67.9	89	51	58	59	60	77	64	73	.488	.507	.522	3.26	.95	6.0	4.8	5.5	5.1
September	29.732	30.070	29.380	60.2	67.6	64.1	70.8	55.0	62.9	89	38	55	56	56	82	67	75	.444	.461	.462	2.05	1.19	4.9	4.3	3.4	4.3
October	29.608	30.130	29.100	48.1	53.6	50.8	58.6	42.2	50.4	80	23	41	43	42	78	69	73	.284	.306	.291	2.72	.77	6.5	5.8	5.2	5.9
November	29.660	30.130	29.070	39.2	43.3	42.3	47.3	36.1	41.7	63	23	33	34	35	79	70	75	.196	.199	.211	1.27	.47	9.0	8.4	8.0	8.7
December	29.727	30.210	29.230	26.2	29.1	28.1	34.3	21.2	27.8	58	0	22	24	23	84	80	80	.125	.132	.126	2.18	.66	9.0	8.0	8.8	8.2
Year, 1922	29.670	30.370	28.790	45.1	49.4	48.2	54.4	39.8	47.1	89	−9	39	40	40	80	71	75	.285	.294	.295	33.10	1.53	6.9	6.0	5.9	6.2

Annual meteorological summary for the year ending December 31, 1922—Continued.

NORTH PLATTE, NEBR.

[H_b=2,821 ft.; h_t=11 ft.; h_r=3 ft.; h_a=51 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	8.2	W.	34	NW.	0	9	5	2	10	4	5	20	7	0	15	9	7	6	3	10	6	0	0	10	0	31	0	0
February	7.4	W.	29	NW.	0	10	7	3	10	3	2	12	9	0	14	8	6	3	0	4	3	0	1	7	0	28	0	0
March	8.6	N.	40	N.	1	11	3	5	11	8	2	12	10	0	13	4	14	3	3	5	3	0	4	1	0	25	0	0
April	9.3	E.	42	NW.	1	6	11	8	10	6	2	8	9	0	9	6	15	6	5	1	1	0	1	0	0	9	2	0
May	8.3	N.	40	W.	1	14	5	6	8	2	4	12	11	0	12	8	11	9	5	0	0	0	1	0	0	0	5	0
June	6.5	S.	25	NE.	0	3	8	9	10	18	5	5	1	1	23	6	1	5	2	0	0	0	1	0	10	0	5	0
July	5.8	N.	32	NW.	0	14	7	5	12	13	1	4	4	2	18	6	7	12	10	0	0	0	0	0	9	0	13	0
August	5.6	SE.	25	SE.	0	7	7	8	10	4	4	8	5	0	27	4	0	7	6	0	0	1	0	0	19	0	8	0
September	6.1	S.	25	N.	0	12	4	8	14	11	3	3	3	2	21	7	2	3	3	0	0	0	0	0	8	0	4	0
October	5.9	W.	29	N.	0	13	8	1	5	6	7	11	10	1	19	5	7	1	1	0	0	0	0	0	0	11	0	0
November	8.1	W.	39	NW.	0	9	2	4	7	2	8	16	11	1	12	6	12	5	3	4	3	0	2	2	0	24	1	0
December	6.3	W.	25	N.	0	9	5	4	6	9	3	23	3	0	13	10	8	1	0	6	1	0	0	10	0	31	0	0
Year	7.2	W.	42	NW.	3	117	72	63	122	86	46	134	83	7	196	79	90	61	41	30	17	1	10	30	46	159	38	0

OKLAHOMA CITY, OKLA.

[H_b=1,214 ft.; h_t=10 ft.; h_r=3 ft.; h_a=47 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	11.8	N.	39	S.	0	16	5	5	5	16	2	3	9	1	8	9	14	8	6	4	2	0	1	5	0	24	1	0
February	11.8	N.	36	S.	0	21	3	1	2	17	3	5	3	1	6	16	6	4	2	2	2	0	1	2	0	16	1	0
March	16.9	S.	50	S.	1	15	2	5	4	25	6	1	4	0	10	12	9	9	6	1	0	1	2	2	0	6	7	0
April	12.8	S.	50	W.	2	14	3	4	11	20	2	2	4	0	8	9	13	12	11	0	0	0	0	0	0	0	5	0
May	9.9	S.	40	NW.	1	14	2	6	9	15	5	5	4	2	10	11	10	13	11	0	0	1	0	0	1	0	8	0
June	8.6	S.	26	S.	0	8	1	8	14	25	1	1	1	1	10	15	5	5	2	0	0	0	0	0	15	0	8	0
July	10.5	S.	34	S.	0	4	3	5	13	31	2	2	2	0	20	7	4	6	6	0	0	0	1	0	21	0	6	0
August	9.1	S.	29	S.	0	2	6	6	16	29	2	0	1	0	20	10	1	3	1	0	0	0	0	0	25	0	3	0
September	9.0	S.	31	NW.	0	9	3	10	9	28	1	0	0	0	26	4	0	3	2	0	0	0	0	0	17	0	1	0
October	9.9	S.	33	N.	0	19	2	4	6	25	1	0	5	0	21	6	4	7	6	0	0	1	0	0	1	0	6	0
November	10.7	S.	35	SE.	0	17	2	3	9	13	5	5	6	0	18	10	2	7	5	0	0	0	1	0	0	2	1	0
December	12.2	S.	36	N.	0	21	3	1	4	18	8	3	4	0	14	8	9	2	2	0	0	0	1	4	0	17	1	0
Year	11.1	S.	50	S.	4	160	35	58	102	262	38	27	43	5	171	117	77	79	60	7	4	3	7	13	80	65	48	0

OMAHA, NEBR.

[H_b=1,105 ft.; h_t=115 ft.; h_r=107 ft.; h_a=122 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	9.0	NW.	33	N.	0	9	3	3	9	15	5	4	14	0	14	10	7	8	5	9	7	0	0	14	0	31	0	0
February	10.4	NW.	33	N.	0	8	4	4	4	6	2	9	19	0	15	8	5	3	2	6	2	1	1	11	0	25	1	0
March	10.3	NW.	36	N.	0	13	6	7	8	13	2	2	11	0	10	10	11	6	5	5	4	0	0	2	0	17	2	0
April	9.4	SE.	40	NW.	1	9	7	13	9	9	3	2	7	1	10	9	11	9	8	1	0	2	2	0	0	2	2	0
May	8.5	NW.	33	NW.	0	10	4	10	6	9	7	3	13	0	12	9	10	10	10	0	0	0	0	0	0	0	5	0
June	6.5	S.	54	NW.	1	8	9	2	8	18	5	1	8	1	16	10	4	9	6	0	0	2	0	0	9	0	8	0
July	6.1	SE.	35	NW.	0	12	5	4	14	10	4	2	11	0	11	15	5	13	12	0	0	0	0	0	3	0	13	0
August	5.9	SE.	36	N.	0	7	5	7	15	12	7	0	9	0	19	10	2	7	3	0	0	0	0	0	11	0	6	0
September	6.5	SE.	37	N.	0	7	7	7	15	15	0	2	7	0	15	7	5	9	5	0	0	0	0	0	6	0	8	0
October	6.7	NW.	37	NW.	0	2	1	1	12	19	3	2	19	3	19	9	3	5	4	1	0	0	3	0	0	1	2	0
November	9.0	NW.	43	NW.	1	10	1	4	8	10	7	9	11	0	15	5	10	10	7	0	0	0	0	0	0	9	1	0
December	8.3	NW.	37	NW.	0	7	4	3	8	10	7	5	17	1	13	9	9	3	0	7	2	0	1	14	0	26	0	0
Year	8.0	NW.	54	NW.	3	102	56	65	116	146	52	41	146	6	172	111	82	92	67	29	15	5	7	41	29	111	48	0

OSWEGO, N. Y.

[H_b=335 ft.; h_t=76 ft.; h_r=68 ft.; h_a=91 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	13.4	*S.	52	NE.	2	2	9	3	5	20	6	7	10	0	8	3	20	12	8	16	9	0	0	21	0	29	0	1
February	13.2	S.	41	SW.	1	5	2	4	6	18	2	9	10	0	2	7	19	16	9	21	12	0	0	13	0	28	2	0
March	10.6	NW.	32	NW.	0	6	3	3	13	13	4	6	14	0	6	6	19	15	12	12	9	0	2	6	0	22	1	0
April	11.6	W.	41	NW.	1	6	2	3	6	10	6	19	8	0	9	9	12	15	11	4	1	0	0	0	0	5	3	0
May	8.0	SE.	29	SW.	0	4	5	3	13	12	8	13	4	0	14	5	12	9	7	0	0	0	5	0	0	0	2	0
June	7.9	W.	29	NW.	0	8	6	1	4	11	9	14	6	1	8	12	10	15	14	0	0	0	4	0	0	0	10	0
July	7.2	S.	25	SW.	0	6	7	1	1	17	13	9	8	0	15	7	9	9	7	0	0	0	0	0	0	0	4	1
August	7.5	S.	28	NE.	0	6	9	1	6	22	8	5	5	0	11	9	11	8	8	0	0	0	0	0	0	0	8	0
September	8.1	S.	34	NE.	0	2	8	3	5	23	11	3	5	0	12	11	7	9	6	0	0	0	0	0	0	0	3	0
October	10.7	S.	40	NW.	1	7	6	2	6	21	7	5	8	0	10	6	15	12	11	2	1	0	0	0	0	5	0	0
November	11.1	NW.	34	NW.	0	5	0	0	6	18	7	5	19	0	2	1	27	12	10	10	2	0	1	2	0	11	0	0
December	13.7	S.	44	NW.	2	0	7	1	8	20	14	2	10	0	2	7	22	18	10	20	14	0	0	14	0	26	0	0
Year	10.2	S.	52	NE.	7	57	64	25	79	205	95	97	107	1	9	83	183	150	113	85	48	0	12	56	0	126	33	2

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1922—Continued.

PALESTINE, TEX.

[ϕ=31° 45′ N.; λ=95° 40′ W.]

Month.	Pressure. Extremes. Monthly mean.	Pressure. Extremes. Maximum.	Pressure. Extremes. Minimum.	Temperature. Mean. 8 a. m.	Temperature. Mean. Noon, local time.	Temperature. Mean. 8 p. m.	Temperature. Extremes. Maximum.	Temperature. Extremes. Minimum.	Temperature. Extremes. Monthly.	Dew point. Extremes. Maximum.	Dew point. Extremes. Minimum.	Dew point. Mean. 8 a. m.	Dew point. Mean. Noon, local time.	Dew point. Mean. 8 p. m.	Moisture. Relative humidity. 8 a. m.	Moisture. Relative humidity. Noon, local time.	Moisture. Relative humidity. 8 p. m.	Moisture. Vapor pressure. 8 a. m.	Moisture. Vapor pressure. Noon, local time.	Moisture. Vapor pressure. 8 p. m.	Precipitation. Total.	Precipitation. Maximum in 24 hours.	Cloudiness. 8 a. m.	Cloudiness. Noon, local time.	Cloudiness. 8 p. m.	Cloudiness. Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.615	29.950	29.090	40.4	47.0	47.3	52.2	37.9	45.0	76	24	36	36	37	84	68	69	0.229	0.229	0.234	5.62	1.93	7.7	8.3	7.8	8.0
February	29.548	30.020	29.206	49.1	57.9	57.2	62.4	36.0	51.2	81	29	43	44	43	80	63	62	.309	.313	.300	4.40	1.94	6.6	7.1	7.0	6.7
March	29.497	29.870	29.080	49.4	61.5	61.8	66.8	47.2	57.0	80	22	43	44	44	79	56	54	.308	.326	.312	6.93	3.46	5.9	5.4	5.2	5.3
April	29.452	29.960	29.070	60.9	70.9	70.9	76.6	58.4	67.5	86	46	57	58	57	86	66	63	.478	.500	.481	7.43	2.58	7.3	7.4	6.3	6.6
May	29.378	29.580	29.166	68.2	79.3	78.1	83.1	67.1	75.1	92	57	64	64	65	87	62	66	.604	.615	.627	5.62	1.92	6.3	6.6	5.9	5.8
June	29.452	29.598	29.326	73.5	84.6	83.1	88.6	70.6	79.6	96	63	70	68	67	87	58	61	.722	.680	.670	1.88	.80	4.6	6.3	5.3	5.2
July	29.500	29.700	29.365	74.2	87.0	86.2	91.9	72.6	82.2	97	64	70	68	68	88	54	56	.739	.688	.689	4.24	3.90	5.1	5.4	5.5	5.0
August	29.441	29.558	29.299	73.9	88.3	87.5	92.9	72.6	82.8	100	66	69	66	67	86	50	52	.718	.656	.661	1.73	1.31	4.4	4.7	5.1	4.5
September	29.486	29.660	29.314	69.0	84.4	81.9	88.5	67.9	78.2	97	60	65	64	64	88	52	57	.628	.611	.606	2.48	1.71	2.7	4.6	4.6	4.3
October	29.460	29.749	29.256	57.9	74.7	71.4	79.3	55.9	67.6	90	45	52	52	52	81	49	52	.403	.412	.401	3.26	2.09	4.0	3.5	3.1	3.7
November	29.589	29.830	29.350	51.6	62.8	60.9	67.2	49.3	58.2	82	37	46	49	48	81	63	64	.328	.369	.352	4.37	2.72	6.3	6.1	5.2	6.1
December	29.547	29.860	29.150	50.7	59.9	58.3	65.2	47.1	56.2	82	28	44	46	44	79	62	63	.332	.344	.319	.46	.18	6.5	6.0	4.5	6.2
Year	29.497	30.020	29.070	59.9	71.5	70.4	76.2	57.7	67.0	100	22	55	55	55	84	59	60	.483	.479	.471	48.42	3.90	5.6	6.0	5.5	5.6

PARKERSBURG, W. VA.

[ϕ=39° 16′ N.; λ=81° 36′ W.]

Month.	Pressure. Extremes. Monthly mean.	Pressure. Extremes. Maximum.	Pressure. Extremes. Minimum.	Temperature. Mean. 8 a. m.	Temperature. Mean. Noon, local time.	Temperature. Mean. 8 p. m.	Temperature. Extremes. Maximum.	Temperature. Extremes. Minimum.	Temperature. Extremes. Monthly.	Dew point. Extremes. Maximum.	Dew point. Extremes. Minimum.	Dew point. Mean. 8 a. m.	Dew point. Mean. Noon, local time.	Dew point. Mean. 8 p. m.	Moisture. Relative humidity. 8 a. m.	Moisture. Relative humidity. Noon, local time.	Moisture. Relative humidity. 8 p. m.	Moisture. Vapor pressure. 8 a. m.	Moisture. Vapor pressure. Noon, local time.	Moisture. Vapor pressure. 8 p. m.	Precipitation. Total.	Precipitation. Maximum in 24 hours.	Cloudiness. 8 a. m.	Cloudiness. Noon, local time.	Cloudiness. 8 p. m.	Cloudiness. Daylight.
January	29.548	30.050	28.704	27.3	33.5	33.3	40.0	23.7	31.8	64	8	21	22	24	76	63	67	0.120	0.127	0.135	1.91	0.60	6.7	5.7	4.5	5.5
February	29.479	29.940	28.930	34.7	40.8	40.3	46.9	30.0	38.4	72	8	28	28	29	74	60	64	.159	.164	.176	1.57	.31	7.1	6.9	6.0	6.4
March	29.429	29.900	28.790	40.1	49.5	48.9	56.4	37.0	46.7	78	22	34	35	36	77	60	63	.202	.223	.227	6.06	2.20	7.2	7.2	6.4	6.2
April	29.439	29.836	28.700	50.1	60.6	59.9	66.6	45.7	56.2	83	32	40	42	42	69	53	54	.268	.300	.297	3.81	2.61	5.8	5.4	5.9	6.3
May	29.344	29.746	28.680	60.5	71.7	68.5	76.4	55.7	66.0	89	42	53	52	55	77	53	65	.408	.405	.451	4.09	1.27	5.3	6.2	5.6	5.8
June	29.358	29.576	29.020	67.1	78.0	74.4	82.0	62.5	72.2	92	49	60	62	63	80	60	70	.531	.571	.586	5.06	1.41	5.7	6.0	5.8	6.1
July	29.399	29.600	29.160	70.1	80.8	76.1	84.9	65.7	75.3	93	53	64	64	65	81	58	70	.599	.609	.630	3.65	1.86	4.1	5.0	5.2	5.6
August	29.375	29.640	29.040	65.6	77.1	73.8	82.4	62.2	72.3	93	52	60	64	64	82	65	73	.523	.613	.607	7.44	3.15	4.1	4.7	5.7	5.1
September	29.478	29.715	29.200	61.7	77.7	70.7	81.8	58.9	70.4	94	45	57	61	62	85	58	74	.477	.557	.565	3.73	2.87	2.2	2.4	1.1	2.9
October	29.401	29.800	28.950	48.4	63.6	57.7	69.5	45.7	57.6	88	30	44	48	48	84	59	73	.302	.352	.339	2.73	1.09	3.7	4.4	3.1	4.1
November	29.503	29.829	28.950	40.1	50.4	47.4	54.6	37.5	46.0	75	20	33	34	36	76	56	66	.200	.212	.228	.97	.67	5.2	6.2	5.3	6.3
December	29.482	29.940	28.770	33.2	40.3	37.8	46.6	28.2	37.4	71	12	26	29	30	75	63	72	.148	.169	.176	4.13	.84	5.6	6.6	5.4	7.0
Year	29.436	30.050	28.680	49.9	60.3	57.4	65.7	46.1	55.9	94	8	43	45	46	78	59	68	.328	.358	.370	45.15	3.15	5.2	5.6	5.0	5.6

PENSACOLA, FLA.

[ϕ=30° 25′ N.; λ=87° 13′ W.]

Month.	Pressure. Extremes. Monthly mean.	Pressure. Extremes. Maximum.	Pressure. Extremes. Minimum.	Temperature. Mean. 8 a. m.	Temperature. Mean. Noon, local time.	Temperature. Mean. 8 p. m.	Temperature. Extremes. Maximum.	Temperature. Extremes. Minimum.	Temperature. Extremes. Monthly.	Dew point. Extremes. Maximum.	Dew point. Extremes. Minimum.	Dew point. Mean. 8 a. m.	Dew point. Mean. Noon, local time.	Dew point. Mean. 8 p. m.	Moisture. Relative humidity. 8 a. m.	Moisture. Relative humidity. Noon, local time.	Moisture. Relative humidity. 8 p. m.	Moisture. Vapor pressure. 8 a. m.	Moisture. Vapor pressure. Noon, local time.	Moisture. Vapor pressure. 8 p. m.	Precipitation. Total.	Precipitation. Maximum in 24 hours.	Cloudiness. 8 a. m.	Cloudiness. Noon, local time.	Cloudiness. 8 p. m.	Cloudiness. Daylight.
January	30.095	30.430	29.420	51.5	56.2	55.5	59.9	48.6	54.2	71	33	47	49	51	85	78	86	0.346	0.379	0.399	4.62	1.27	7.1	7.0	6.9	7.0
February	30.070	30.520	29.725	56.7	61.4	61.1	65.5	53.7	59.6	73	31	52	54	57	86	78	88	.431	.455	.501	2.93	1.59	7.0	7.4	5.7	7.0
March	30.036	30.320	29.670	56.8	62.6	61.9	66.8	54.3	60.6	76	32	51	51	54	82	70	76	.410	.417	.442	6.01	1.69	5.6	5.3	5.2	5.5
April	30.032	30.350	29.760	66.9	71.8	70.4	74.0	64.5	69.2	79	49	62	62	64	84	74	83	.577	.583	.625	.39	.27	6.0	5.0	5.6	5.7
May	29.877	30.150	29.600	72.1	75.6	74.7	78.5	68.2	73.4	90	58	68	67	68	87	77	82	.685	.667	.701	9.74	3.85	6.3	6.1	6.2	6.1
June	29.947	30.070	29.750	77.5	82.1	80.3	84.8	74.2	79.5	94	67	72	72	73	85	72	78	.796	.782	.805	1.74	.69	5.2	5.3	6.0	5.5
July	30.016	30.160	29.850	77.7	81.8	80.2	84.8	74.3	79.6	89	68	72	72	72	83	72	76	.786	.783	.786	7.51	2.46	6.0	5.8	6.5	6.2
August	29.920	30.070	29.790	77.2	82.6	80.3	85.3	74.1	79.7	90	68	72	71	73	84	70	78	.786	.776	.811	11.61	6.43	5.6	6.2	6.6	6.1
September	29.959	30.100	29.810	74.3	82.0	79.4	84.3	71.7	78.0	89	67	68	68	69	82	64	72	.700	.706	.716	1.94	.80	4.6	4.6	5.1	4.9
October	29.893	30.120	29.700	65.2	72.9	70.7	76.0	62.7	69.4	84	48	58	60	61	79	66	74	.512	.544	.563	6.58	3.35	5.5	6.0	5.1	5.8
November	30.074	30.300	29.600	58.8	66.7	65.8	70.1	56.6	63.4	79	38	53	54	55	81	66	71	.444	.467	.484	.72	.26	6.5	5.6	4.9	5.8
December	30.061	30.330	29.650	53.5	62.4	61.3	66.4	54.5	60.4	74	36	58	58	58	93	86	89	.479	.502	.497	6.02	1.55	6.6	6.2	5.9	6.3
Year	29.998	30.520	29.420	66.1	71.5	70.1	74.7	63.1	68.9	94	31	61	62	63	84	73	79	.579	.588	.611	59.81	6.43	6.0	5.9	5.8	6.0

PEORIA, ILL.

[ϕ=40° 43′ N.; λ=89° 36′ W.]

Month.	Pressure. Extremes. Monthly mean.	Pressure. Extremes. Maximum.	Pressure. Extremes. Minimum.	Temperature. Mean. 8 a. m.	Temperature. Mean. Noon, local time.	Temperature. Mean. 8 p. m.	Temperature. Extremes. Maximum.	Temperature. Extremes. Minimum.	Temperature. Extremes. Monthly.	Dew point. Extremes. Maximum.	Dew point. Extremes. Minimum.	Dew point. Mean. 8 a. m.	Dew point. Mean. Noon, local time.	Dew point. Mean. 8 p. m.	Moisture. Relative humidity. 8 a. m.	Moisture. Relative humidity. Noon, local time.	Moisture. Relative humidity. 8 p. m.	Moisture. Vapor pressure. 8 a. m.	Moisture. Vapor pressure. Noon, local time.	Moisture. Vapor pressure. 8 p. m.	Precipitation. Total.	Precipitation. Maximum in 24 hours.	Cloudiness. 8 a. m.	Cloudiness. Noon, local time.	Cloudiness. 8 p. m.	Cloudiness. Daylight.
January	29.528	30.110	28.790	17.1	27.8	25.2	33.6	14.0	23.8	54	−4	15	21	21	91	75	84	0.090	0.123	0.119	1.69	1.47	3.6	4.2	3.0	4.2
February	29.448	30.060	28.870	24.9	33.8	31.7	39.2	20.6	29.9	71	3	21	25	26	83	69	77	.122	.145	.150	1.98	.72	4.7	4.9	4.2	4.5
March	29.370	29.755	28.780	36.6	44.8	42.8	48.8	33.5	41.2	73	17	32	36	36	85	72	78	.193	.214	.223	5.09	1.01	6.8	6.2	6.9	6.4
April	29.359	29.764	28.487	47.1	58.0	55.2	62.5	42.5	52.5	77	30	42	45	45	84	65	70	.279	.322	.319	3.62	.76	5.2	4.8	6.0	4.6
May	29.281	29.629	28.760	61.0	72.1	69.6	75.8	55.5	65.6	87	45	56	56	56	83	60	64	.454	.486	.459	4.60	1.86	5.8	5.1	4.6	4.5
June	29.332	29.604	29.046	68.2	81.3	80.0	84.8	61.6	73.2	96	48	61	63	61	78	54	54	.549	.579	.556	.99	.65	2.9	3.3	3.0	2.6
July	29.364	29.646	29.020	69.4	81.4	79.5	85.6	63.8	74.7	97	50	62	62	61	78	53	55	.566	.565	.552	3.06	1.85	3.9	3.8	3.6	3.4
August	29.344	29.557	29.000	67.3	82.8	77.8	86.5	62.5	74.5	98	47	61	61	62	81	50	60	.547	.559	.580	.72	.41	2.8	3.0	2.4	2.5
September	29.435	29.746	29.125	60.4	78.9	70.8	82.2	57.0	69.6	100	40	56	57	59	88	50	67	.480	.496	.515	2.71	1.90	2.7	2.5	2.2	2.1
October	29.358	29.690	29.020	47.9	67.1	58.2	70.3	45.6	58.0	92	29	44	48	46	86	52	67	.299	.348	.335	2.02	1.29	3.9	3.2	2.4	2.9
November	29.438	29.760	28.875	38.3	47.4	44.4	50.5	36.0	43.2	68	17	35	39	38	87	73	80	.212	.252	.261	3.67	1.49	5.4	5.4	4.7	5.7
December	29.440	29.980	28.948	24.3	32.5	30.1	38.1	19.6	28.8	61	−6	22	24	25	89	71	81	.124	.140	.145	1.38	.80	5.8	5.5	4.2	5.4
Year	29.391	30.110	28.487	46.9	59.0	55.4	63.2	42.7	52.9	100	−6	42	45	45	84	62	70	.326	.351	.350	31.53	1.90	4.4	4.3	4.0	4.1

Annual meteorological summary for the year ending December 31, 1922—Continued.

PALESTINE, TEX.

[H_b=510 ft.; h_t=64 ft.; h_r=57 ft.; h_a=72 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.	*	*Mi.*																									
January	9.0	NE.	30	S.	0	8	25	4	4	8	5	2	6	0	4	3	24	15	12	1	0	0	0	1	0	5	2	0
February	9.9	NE.	32	S.	0	8	13	1	7	13	4	6	4	0	5	12	11	10	9	0	0	0	0	0	0	3	5	0
March	10.5	SE.	30	W.	0	8	1	4	15	10	5	7	12	0	11	8	12	8	6	0	0	0	0	1	0	4	5	0
April	8.8	S.	36	S.	0	6	9	4	12	16	4	4	5	0	6	5	19	11	10	0	0	0	0	0	0	0	5	0
May	7.1	S.	22	S.	0	4	10	6	8	17	7	7	3	0	10	9	12	11	6	0	0	1	1	0	1	0	12	0
June	5.5	S.	24	SW.	0	3	6	6	11	16	13	4	1	0	11	10	9	8	6	0	0	0	0	0	18	0	6	0
July	7.1	SW.	39	S.	0	1	3	7	2	21	26	2	0	0	8	21	2	7	5	0	0	0	0	0	24	0	8	0
August	5.3	E.	24	W.	0	2	5	19	8	13	12	0	2	1	12	14	5	8	6	0	0	0	0	0	22	0	4	0
September	5.1	NE.	28	S.	0	3	26	7	10	9	3	0	2	0	10	15	5	6	4	0	0	0	1	0	13	0	3	0
October	5.6	NE.	24	NW.	0	10	25	6	5	8	4	5	1	0	16	10	5	7	6	0	0	0	4	0	1	0	1	0
November	7.2	NE.	28	S.	0	5	22	7	11	5	4	3	3	0	8	10	12	10	6	0	0	0	2	0	0	0	4	0
December	8.3	SW.	30	NW.	0	9	9	2	9	10	14	2	7	0	7	10	14	9	3	0	0	0	4	0	0	2	3	0
Year	7.4	NE.	39	S.	0	67	152	73	102	146	101	42	46	1	108	127	130	110	79	1	0	1	12	2	79	14	58	0

PARKERSBURG, W. VA.

[H_b=637 ft.; h_t=77 ft.; h_r=68 ft.; h_a=82 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	6.2	* W.	29	NW.	0	10	5	1	10	4	9	14	9	0	13	6	12	13	7	8	6	0	0	7	0	27	0	0
February	7.2	NW.	36	SW.	0	8	2	0	11	7	8	4	16	0	6	9	13	14	10	8	4	0	0	2	0	16	4	0
March	6.5	SE.	30	NW.	0	9	10	1	14	3	11	3	11	0	9	6	16	16	15	7	4	1	0	0	0	9	4	0
April	7.0	N.	35	SW.	0	11	8	2	10	6	7	5	10	1	8	8	14	10	8	0	0	0	1	0	0	1	3	0
May	4.1	SE.	22	SE.	0	5	7	3	16	7	12	2	9	1	9	8	14	16	11	0	0	0	1	0	0	0	6	0
June	4.3	SE.	36	NW.	0	8	5	3	15	2	10	5	11	1	9	8	13	10	9	0	0	1	0	0	1	0	6	0
July	4.2	SE.	27	NW.	0	11	2	1	25	5	6	1	11	0	11	9	11	14	11	0	0	1	2	0	8	0	9	0
August	3.9	SE.	28	NW.	0	4	6	1	24	4	6	4	10	3	13	9	9	9	8	0	0	0	1	0	3	0	7	0
September	3.5	SE.	18	NW.	0	13	1	3	25	3	3	2	8	2	23	3	4	4	4	0	0	0	5	0	4	0	3	0
October	4.1	SE.	24	S.	0	5	4	3	19	8	7	5	8	3	18	4	9	8	6	0	0	0	3	0	0	1	1	0
November	5.6	SE.	29	NW.	0	3	1	2	19	4	14	7	9	1	9	5	16	7	4	4	2	0	1	1	0	11	0	0
December	5.2	SE.	33	W.	0	10	6	3	15	5	5	6	12	0	7	6	18	16	12	4	4	0	0	3	0	22	1	0
Year	5.2	SE.	36	SW.	0	97	57	23	203	58	98	58	124	12	135	81	149	137	105	31	20	3	14	13	16	87	44	0

PENSACOLA, FLA.

[H_b=56 ft.; h_t=149 ft.; h_r=131 ft.; h_a=185 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	15.5	NE.	55	SE.	3	5	20	13	3	11	2	4	4	0	7	4	20	10	9	0	0	0	1	0	0	0	0	0
February	14.0	SE.	58	NW.	3	8	6	10	8	8	10	5	1	0	4	6	18	7	3	0	0	0	4	0	0	2	6	0
March	16.8	SE.	47	SW.	5	12	5	6	16	14	0	4	4	1	10	10	11	11	9	0	0	1	0	0	0	1	5	0
April	15.7	S.	54	S.	2	7	5	5	7	23	6	7	0	0	8	12	10	4	2	0	0	0	0	0	0	0	2	0
May	12.4	S.	41	E.	3	3	7	13	3	7	12	13	4	0	10	8	13	14	13	0	0	0	0	0	0	0	10	0
June	9.8	S.	30	NW.	0	9	3	3	2	9	8	12	9	0	6	13	11	9	8	0	0	0	0	0	3	0	19	0
July	10.1	W.	36	SW.	0	10	4	3	3	6	13	17	6	0	6	14	11	17	11	0	0	0	0	0	0	0	17	0
August	10.2	W.	52	SW.	2	9	8	10	2	5	7	16	5	0	6	13	12	14	12	0	0	0	0	0	1	0	17	0
September	10.6	E.	42	NE.	1	8	19	15	3	5	4	6	0	0	13	10	7	10	6	0	0	0	0	0	0	0	6	0
October	13.4	NE.	42	SE.	1	7	24	17	2	4	3	3	1	1	12	3	16	11	8	0	0	0	0	0	0	0	1	0
November	13.1	NE.	31	W.	0	12	13	11	11	6	2	5	0	0	7	11	12	5	4	0	0	0	1	0	0	0	0	0
December	12.7	S.	46	S.	2	6	11	8	8	12	9	4	4	0	8	7	16	12	9	0	0	0	5	0	0	0	4	0
Year	12.9	S.	58	NW.	22	96	125	119	68	110	76	96	38	2	97	111	157	124	94	0	0	1	11	0	4	3	87	0

PEORIA, ILL.

[H_b=609 ft.; h_t=11 ft.; h_r=4 ft.; h_a=45 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	7.6	S.	31	SW.	0	5	10	9	5	13	2	8	9	1	14	10	7	6	2	9	4	0	1	14	0	31	2	0
February	9.2	W.	34	W.	0	6	6	3	6	12	2	10	11	0	11	11	6	7	5	8	2	0	3	8	0	26	1	0
March	9.1	S.	29	SW.	0	14	6	8	11	12	2	3	5	1	9	7	15	13	13	6	2	0	0	2	0	11	1	0
April	8.0	S.	23	NW.	0	5	10	9	13	8	6	2	5	2	14	6	10	15	11	0	0	0	1	0	0	2	6	0
May	5.6	S.	26	W.	0	5	4	8	15	8	8	6	5	3	14	10	7	15	10	0	0	1	0	0	0	0	10	0
June	4.8	NE.	22	S.	0	9	9	7	5	11	5	4	7	3	22	6	2	4	2	0	0	0	0	0	5	0	7	1
July	4.6	S.	23	S.	0	11	11	5	6	10	7	4	5	3	16	11	4	6	4	0	0	0	0	0	6	0	4	0
August	3.8	S.	19	N.	0	7	7	2	14	9	5	3	6	9	21	8	2	4	4	0	0	0	1	0	9	0	5	0
September	4.0	S.	17	W.	0	8	10	1	3	16	6	2	2	12	24	3	3	5	3	0	0	0	0	0	8	0	8	0
October	4.8	S.	20	SW.	0	7	2	6	2	16	7	4	12	6	23	1	7	6	4	0	0	0	0	0	3	2	2	0
November	7.5	S.	24	W.	0	3	1	3	5	16	9	9	12	2	10	9	11	11	9	2	1	0	0	0	0	11	0	0
December	7.5	S.	22	N.	0	7	5	5	9	14	3	8	10	1	10	9	12	6	6	4	1	0	2	10	0	29	0	0
Year	6.4	S.	34	W.	0	87	81	66	94	145	62	63	89	43	188	91	86	98	73	29	10	1	8	34	31	112	44	1

*By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1922—Continued.

PHILADELPHIA, PA.

[ϕ=39° 57′ N.; λ=75° 09′ W.]

Month.	Pressure.			Temperature.								Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	30.062	30.560	28.630	28.3	32.8	32.6	37.4	25.0	31.2	53	9	20	21	21	71	61	62	0.116	0.122	0.119	3.16	1.28	6.3	6.4	4.6	5.8
February	30.021	30.480	29.350	33.4	38.2	38.0	44.3	29.1	36.7	71	4	27	28	28	78	68	67	.158	.165	.162	2.62	.75	6.2	6.7	4.9	6.1
March	29.985	30.570	29.220	40.7	46.6	45.5	51.5	35.8	43.6	75	20	33	34	33	73	62	63	.209	.209	.199	4.34	.95	6.5	6.3	5.8	6.4
April	29.956	30.349	29.120	50.8	57.8	56.2	62.8	45.3	54.0	87	34	38	38	38	62	47	50	.247	.238	.239	1.52	.42	5.9	5.7	4.8	6.0
May	29.887	30.366	29.310	62.4	71.7	67.4	76.3	56.6	66.4	85	47	51	49	51	67	47	58	.382	.359	.386	2.47	.87	5.9	5.5	4.0	5.2
June	29.852	30.060	29.390	71.1	77.1	75.0	81.2	66.0	73.6	90	56	61	61	63	72	60	68	.556	.560	.586	4.56	1.20	6.3	7.3	7.1	6.8
July	29.914	30.112	29.610	72.6	80.0	75.7	83.6	67.4	75.5	94	58	64	64	64	75	58	69	.608	.598	.615	2.42	.67	6.4	6.9	6.5	6.7
August	29.880	30.220	29.550	70.3	77.3	73.3	80.6	65.3	73.0	91	56	62	60	62	76	58	69	.575	.540	.567	2.56	.61	6.6	7.1	6.0	6.5
September	30.011	30.360	29.630	65.2	74.5	70.1	78.2	61.2	69.7	93	47	57	56	58	76	54	67	.491	.479	.502	1.23	.69	5.9	5.4	3.4	5.3
October	29.894	30.347	29.440	55.5	65.3	61.2	69.4	51.8	60.6	91	38	46	44	46	70	47	59	.347	.326	.347	.71	.29	4.1	4.5	3.6	4.1
November	29.956	30.360	29.390	44.7	51.3	49.0	54.9	41.3	48.1	69	30	35	33	34	68	50	58	.215	.201	.212	.43	.25	5.8	5.7	4.4	6.0
December	30.032	30.540	29.250	33.6	38.1	37.9	42.2	30.0	36.1	57	16	26	29	28	75	72	67	.150	.167	.156	3.29	1.22	7.1	7.4	6.1	7.5
Year	29.954	30.570	28.630	52.4	59.2	56.8	63.5	47.9	55.7	94	4	43	43	44	72	57	63	.337	.330	.341	29.31	1.28	6.1	6.2	5.1	6.0

PHOENIX, ARIZ.

[ϕ=33° 28′ N.; λ=112° 00′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	28.852	29.200	28.464	38.3	56.3	56.5	61.7	35.5	48.6	69	24	30	29	30	72	38	38	0.177	0.172	0.173	1.29	0.83	2.8	3.3	4.2	3.5
February	28.846	29.150	28.460	43.3	61.5	62.9	67.6	41.1	54.4	80	28	35	32	33	72	37	35	.206	.194	.203	.42	.36	3.0	4.6	5.0	4.0
March	28.811	29.160	28.450	45.8	64.6	67.6	70.3	43.6	57.0	83	31	36	36	35	70	37	34	.221	.223	.214	.99	.55	3.0	4.4	4.2	3.8
April	28.726	29.170	28.500	50.1	71.9	75.8	77.9	48.6	63.2	92	35	34	31	30	56	25	21	.201	.183	.173	.24	.24	2.1	3.1	2.6	2.2
May	28.656	28.955	28.400	61.1	87.9	91.6	93.3	59.4	76.4	105	44	38	35	34	46	17	15	.237	.206	.198	.26	.26	1.7	1.5	2.2	1.5
June	28.627	28.875	28.474	70.1	97.1	101.0	103.3	69.2	86.2	114	56	47	43	42	45	17	15	.348	.299	.290	T.	T.	1.7	1.3	2.4	1.8
July	28.693	28.900	28.499	78.5	97.6	101.2	104.0	77.2	90.6	112	72	62	59	57	59	29	25	.567	.501	.474	.74	.36	3.1	3.5	5.6	4.6
August	28.660	28.920	28.470	77.5	96.8	98.6	102.4	76.4	89.4	110	72	65	62	60	67	34	32	.624	.567	.535	.57	.18	4.4	3.3	4.8	3.5
September	28.694	28.850	28.505	72.3	94.3	95.2	99.3	70.8	85.0	107	64	57	54	57	61	28	29	.481	.432	.467	.13	.13	1.6	1.0	2.8	1.7
October	28.701	28.930	28.480	57.7	84.2	80.7	88.1	55.2	71.6	100	38	41	39	44	56	21	28	.268	.240	.290	T.	T.	1.3	1.7	2.0	1.2
November	28.824	29.090	28.430	41.8	67.1	62.3	70.7	39.2	55.0	80	32	32	29	33	68	26	35	.179	.163	.193	1.04	.75	1.2	1.8	2.1	1.4
December	28.837	29.112	28.710	44.9	63.3	60.7	67.4	42.7	55.0	74	34	40	39	40	83	43	50	.254	.249	.262	.28	.17	2.7	4.0	4.5	3.4
Year	28.747	29.200	28.400	56.8	78.6	79.5	83.8	54.9	69.4	114	24	43	41	41	63	29	30	.313	.286	.290	5.96	.83	2.6	2.8	3.5	2.7

PIERRE, S. DAK.

[ϕ=44° 22′ N.; λ=100° 21′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	28.419	29.080	27.760	9.5	15.6	15.8	23.0	4.3	13.6	42	−17	5	11	11	80	78	78	0.062	0.078	0.078	0.68	0.27	4.1	4.9	5.2	4.8
February	28.446	29.160	27.750	3.9	12.1	12.6	19.7	−0.4	9.6	44	−18	0	7	8	82	79	80	.044	.061	.065	.49	.19	4.4	5.2	4.9	5.1
March	28.316	29.010	27.830	25.9	37.7	38.6	43.7	23.9	33.8	64	−5	23	29	30	87	72	72	.127	.163	.171	.56	.26	5.4	5.1	4.8	5.1
April	28.304	28.756	27.761	40.3	53.9	55.1	59.6	38.7	49.2	77	24	36	38	36	85	58	51	.215	.236	.214	.59	.35	5.5	6.4	5.9	6.2
May	28.233	28.663	27.550	53.3	65.7	66.9	70.3	50.3	60.3	82	39	48	51	48	83	61	56	.344	.394	.357	3.58	1.18	5.9	6.5	4.9	6.2
June	28.277	28.630	27.870	63.3	77.1	78.0	81.4	59.6	70.5	101	46	58	62	61	83	62	58	.485	.566	.541	4.60	2.32	4.0	3.9	4.4	4.1
July	28.337	28.592	27.751	64.1	77.7	79.9	82.9	61.0	72.0	95	49	59	60	59	84	57	52	.507	.530	.518	2.84	1.48	4.3	4.9	4.5	4.8
August	28.296	28.500	28.021	66.2	83.2	84.7	88.8	64.3	76.6	99	51	58	60	60	77	48	46	.503	.533	.532	2.03	1.47	4.0	2.8	2.8	3.1
September	28.339	28.780	27.923	54.3	76.4	76.2	82.5	52.8	67.6	100	35	46	49	44	75	40	35	.323	.358	.305	.19	.13	3.2	2.4	3.0	3.1
October	28.312	28.700	27.763	39.6	61.3	59.5	67.5	36.9	52.2	97	21	31	37	33	73	44	40	.180	.222	.189	.44	.31	3.5	4.1	3.7	4.0
November	28.374	28.930	27.600	32.4	39.9	38.4	44.3	29.1	36.7	64	17	28	32	32	84	75	78	.158	.185	.188	3.16	1.34	5.7	6.6	5.5	6.4
December	28.371	28.840	27.760	11.5	19.3	18.9	25.5	7.4	16.4	48	−22	6	12	14	78	72	78	.070	.091	.095	.31	.17	3.4	5.0	3.2	5.1
Year	28.334	29.160	27.550	38.7	51.7	52.0	57.4	35.7	46.5	101	−22	33	37	36	81	62	60	.252	.285	.271	19.47	2.32	4.4	4.8	4.4	4.8

PITTSBURGH, PA.

[ϕ=40° 32′ N.; λ=80° 02′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.266	29.770	28.490	25.1	30.5	30.7	36.9	20.7	28.8	59	6	19	19	20	78	61	65	0.113	0.111	0.120	1.56	0.52	5.4	5.9	4.3	5.8
February	29.199	29.700	28.562	32.4	37.9	37.5	43.3	27.1	35.2	70	5	26	27	27	76	66	65	.152	.162	.160	1.57	.42	7.9	7.8	7.0	8.0
March	29.169	29.700	28.500	38.2	44.7	44.9	51.3	34.7	43.0	75	18	31	33	34	77	65	68	.187	.199	.212	5.84	1.57	6.4	7.2	6.3	7.1
April	29.174	29.582	28.410	47.0	55.2	55.5	62.1	43.1	52.6	80	29	38	39	39	71	57	58	.249	.271	.268	3.56	2.34	6.6	6.2	6.1	6.6
May	29.086	29.498	28.383	60.1	69.6	68.8	74.5	55.4	65.0	88	40	52	52	53	75	57	60	.396	.410	.409	2.59	.82	5.4	5.7	5.9	5.6
June	29.097	29.295	28.730	67.2	76.5	73.8	80.4	62.0	71.2	89	49	58	59	59	74	56	62	.495	.512	.517	3.12	1.31	5.8	6.6	7.0	6.6
July	29.140	29.340	28.890	69.7	78.9	76.6	82.9	64.9	73.9	93	55	62	60	60	76	54	50	.554	.534	.533	2.89	1.56	4.9	5.7	5.1	5.4
August	29.119	29.400	28.785	65.4	75.8	74.2	80.2	61.4	70.8	92	50	59	57	57	79	54	56	.501	.481	.473	2.35	.69	4.9	5.3	5.4	5.4
September	29.226	29.500	28.940	61.6	76.6	72.1	80.8	58.4	69.6	94	44	55	54	54	79	47	55	.453	.440	.438	1.54	.79	2.9	3.3	2.1	2.9
October	29.132	29.570	28.680	50.0	60.9	58.6	66.2	46.7	56.4	86	34	43	45	43	78	58	59	.298	.320	.300	1.62	.52	4.6	4.9	3.3	4.8
November	29.206	29.572	28.670	41.1	47.4	46.9	51.5	39.1	45.3	69	23	34	36	36	76	66	67	.203	.219	.222	1.31	.67	7.9	7.6	7.2	7.8
December	29.203	29.640	28.558	32.9	37.9	36.4	43.5	27.7	35.6	64	9	27	30	28	78	72	70	.158	.178	.161	1.98	.69	7.5	6.9	6.2	7.3
Year	29.168	29.770	28.383	49.2	57.7	56.3	62.8	45.1	54.0	94	5	42	43	42	76	59	62	.313	.320	.318	29.84	2.34	5.8	6.1	5.5	6.1

Annual meteorological summary for the year ending December 31, 1922—Continued.

PHILADELPHIA, PA.

[H_b=114 ft.; h_t=123 ft.; h_r=114 ft.; h_a=190 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	10.5	N.	46	N.	2	18	6	3	1	5	8	5	16	0	9	9	13	8	6	6	4	0	0	10	0	25	0	0
February	10.4	NW.	34	S.	0	10	6	4	5	7	6	4	14	0	8	8	12	13	10	4	3	0	4	1	0	16	0	0
March	11.2	NW.	37	S.	0	11	4	7	1	12	2	5	20	0	8	6	17	16	13	3	1	0	1	1	0	7	2	0
April	10.4	NW.	36	SW.	0	17	1	3	2	15	6	6	10	0	6	14	10	12	9	0	0	0	0	0	0	0	3	0
May	10.1	SW.	36	SW.	0	6	4	9	5	11	14	9	4	0	11	11	9	10	8	0	0	0	0	0	0	0	2	0
June	8.6	NW.	32	NW.	0	5	4	4	7	7	15	7	11	0	2	16	12	14	11	0	0	0	0	0	0	0	7	0
July	8.5	SW.	28	N.	0	4	13	5	9	7	16	2	6	0	5	14	12	10	10	0	0	0	0	0	4	0	6	0
August	8.9	SW.	32	S.	0	9	9	6	4	6	18	5	5	0	8	4	19	12	12	0	0	0	1	0	2	0	6	0
September	8.0	SW.	26	NE.	0	9	8	5	9	9	14	3	2	1	12	4	14	4	3	0	0	0	0	0	1	0	2	0
October	9.7	SW.	29	SW.	0	12	4	2	4	4	22	6	8	0	16	5	10	6	4	0	0	0	1	0	1	0	1	0
November	9.7	NW.	32	NW.	0	10	2	0	0	2	15	9	22	0	7	11	12	4	3	3	0	0	3	0	0	4	0	0
December	9.4	NE.	36	NE.	0	8	11	8	5	6	2	7	14	1	4	7	20	14	12	5	4	0	5	3	0	17	0	0
Year	9.6	SW.	46	N.	2	119	72	56	52	91	138	68	132	2	96	109	160	123	101	21	12	0	15	15	8	69	29	0

PHOENIX, ARIZ.

[H_b=1,108 ft.; h_t=11 ft.; h_r=68 ft.; h_a=81 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	4.2	E.	22	W.	0	1	2	22	5	3	10	10	8	1	15	13	3	6	5	0	0	1	1	0	0	9	1	0
February	4.8	E.	26	NW.	0	4	3	21	5	1	2	11	9	0	13	9	6	3	2	0	0	0	0	0	0	4	0	0
March	5.5	E.	27	NW.	0	2	4	22	5	3	2	14	10	0	15	10	6	4	4	0	0	0	0	0	0	2	0	0
April	6.1	E.	26	W.	0	5	3	16	3	2	10	13	7	1	21	7	2	1	1	0	0	0	0	0	5	0	0	0
May	5.6	W.	29	W.	0	3	8	15	5	1	9	16	5	0	25	5	1	1	1	0	0	0	0	0	24	0	0	0
June	5.3	W.	32	SE.	0	7	4	20	1	3	5	12	8	0	22	6	2	0	0	0	0	0	0	0	30	0	5	0
July	5.1	W.	44	N.	2	5	5	19	2	3	3	18	7	0	11	15	5	7	5	0	0	0	0	0	31	0	11	0
August	5.1	W.	32	SE.	0	0	6	20	3	3	7	16	5	2	18	11	2	5	4	0	0	0	0	0	30	0	9	0
September	5.2	E.	27	N.	0	1	4	19	10	1	0	19	6	0	26	3	1	1	1	0	0	0	0	0	30	0	2	0
October	4.7	E.	22	W.	0	5	0	22	9	0	2	18	5	1	27	3	1	0	0	0	0	0	0	0	12	0	0	0
November	4.8	E.	24	E.	0	0	3	18	7	4	6	14	7	1	25	3	2	3	3	0	0	0	0	0	0	1	0	0
December	3.5	E.	15	W.	0	1	3	20	7	2	5	14	7	3	14	13	4	2	2	0	0	0	3	0	0	0	0	0
Year	5.0	E.	44	N.	2	34	45	234	62	26	61	175	84	9	232	98	35	33	28	0	0	1	4	0	162	16	28	0

PIERRE, S. DAK.

[H_b=1,572 ft.; h_t=70 ft.; h_r=63 ft.; h_a=75 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	8.7	NW.	40	NW.	1	8	6	9	7	3	7	5	17	0	16	3	12	7	5	13	7	0	0	21	0	31	0	0
February	9.7	NW.	44	NW.	2	5	4	9	9	0	6	6	17	0	10	7	11	6	5	8	6	0	0	22	0	28	1	0
March	10.7	NW.	42	NW.	2	9	6	16	10	0	6	2	12	1	12	10	9	4	3	4	3	0	0	4	0	25	0	0
April	10.7	SE.	46	NW.	1	6	6	13	12	3	5	2	13	0	9	6	15	6	3	1	0	0	0	0	0	3	1	0
May	11.2	NW.	46	W.	2	5	5	8	10	2	7	7	16	2	6	12	13	12	7	0	0	0	0	0	0	0	5	0
June	7.8	SE.	38	W.	0	4	8	13	13	3	3	3	11	2	14	10	6	12	12	0	0	0	0	0	5	0	8	0
July	7.2	E.	45	NW.	1	7	9	17	9	0	4	7	7	2	11	12	8	13	9	0	0	0	0	0	8	0	5	0
August	7.6	E.	47	NW.	2	5	7	21	12	0	2	5	9	1	21	5	5	4	4	0	0	0	0	0	17	0	3	0
September	7.4	E.	52	SW.	1	6	7	19	11	0	1	1	15	0	17	9	4	2	2	0	0	0	0	0	8	0	2	0
October	7.4	NW.	33	SW.	0	5	10	11	7	1	8	2	17	1	15	7	9	4	3	1	0	0	0	0	3	10	0	0
November	10.1	NW.	52	NW.	3	5	6	9	4	1	5	9	21	0	8	5	17	8	7	5	5	0	0	4	0	21	1	0
December	6.7	NW.	40	NW.	1	2	6	12	7	1	10	4	19	1	11	9	11	5	4	8	5	0	0	16	0	28	0	0
Year	8.8	NW.	52	NW.	17	67	80	157	111	14	64	53	174	10	150	95	120	83	64	40	26	0	0	67	41	146	26	0

PITTSBURGH, PA.

[H_b=842 ft.; h_t=353 ft.; h_r=345 ft.; h_a=410 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	11.7	SW.	39	NW.	0	5	9	6	2	4	12	13	11	0	10	6	15	10	7	8	6	0	2	11	0	28	0	0
February	13.2	NW.	62	W.	3	4	3	5	5	5	12	9	13	0	1	6	21	14	10	12	5	0	0	5	0	19	2	0
March	12.1	NW.	44	W.	1	9	4	8	7	6	6	10	12	0	8	2	21	17	14	9	6	1	1	1	0	14	2	0
April	12.5	NW.	47	NW.	6	6	7	5	9	4	7	7	15	0	5	11	14	15	7	2	1	1	0	0	0	3	7	0
May	8.6	NW.	39	NW.	0	6	7	6	9	3	12	5	14	0	10	8	13	11	10	0	0	0	0	0	0	0	6	0
June	9.0	NW.	39	W.	0	4	10	4	2	3	16	4	16	1	3	13	14	13	9	0	0	0	0	0	0	0	8	0
July	9.1	SW.	54	SW.	2	9	7	4	2	4	21	4	11	0	10	13	8	8	7	0	0	0	0	0	2	0	10	0
August	7.8	SW.	32	SW.	0	7	10	6	4	1	17	4	13	0	10	11	10	9	6	0	0	0	1	0	3	0	7	0
September	7.8	SW.	33	NW.	0	13	9	4	6	3	17	1	7	0	19	6	5	3	3	0	0	0	8	0	4	0	3	0
October	9.5	SW.	36	SW.	0	3	13	2	3	6	15	9	10	1	12	8	11	8	7	0	0	0	5	0	0	0	2	0
November	12.1	SW.	47	NW.	1	2	1	3	3	7	19	12	13	0	5	3	22	8	5	8	4	0	0	1	0	9	0	0
December	10.9	SW.	44	NW.	1	6	4	6	10	2	13	11	10	0	5	5	21	12	8	10	3	0	2	4	0	22	0	0
Year	10.4	SW.	62	W.	14	74	84	50	62	48	167	89	145	2	98	92	175	128	93	49	25	2	19	22	9	95	47	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

POCATELLO, IDAHO.

[ϕ=42° 52′ N.; λ=112° 29′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	25.523	26.100	24.900	13.3	19.3	18.3	24.1	7.9	16.0	46	−20	10	13	13	84	74	78	0.071	0.079	0.079	1.54	0.93	7.1	6.5	6.5	7.1
February	25.424	25.920	24.950	20.8	26.7	26.8	31.1	16.4	23.8	45	0	16	19	20	82	70	74	.095	.104	.108	1.94	.54	8.1	7.0	7.1	7.2
March	25.438	25.900	25.041	26.3	34.6	35.4	39.3	23.5	31.4	58	−2	18	22	23	71	61	60	.105	.122	.125	.69	.23	6.1	6.7	7.4	6.7
April	25.418	25.830	24.990	33.3	44.4	45.2	49.4	31.3	40.4	67	19	26	26	26	73	52	51	.138	.149	.143	1.81	.51	5.8	6.6	7.4	6.7
May	25.449	25.720	24.970	44.1	60.2	62.8	66.3	41.5	53.9	83	31	32	30	29	65	36	32	.185	.173	.163	1.84	.91	4.0	4.8	4.7	4.5
June	25.459	25.710	25.178	54.6	76.0	79.1	82.5	52.1	67.3	94	42	39	39	35	57	29	24	.247	.242	.206	.82	.62	2.6	2.9	3.4	3.2
July	25.519	25.720	25.220	58.5	80.3	83.8	86.9	57.0	72.0	98	46	40	40	36	53	25	21	.260	.254	.221	.17	.14	2.3	3.4	5.1	3.7
August	25.501	25.720	25.222	60.7	78.3	80.5	84.4	58.7	71.6	94	48	48	48	46	66	38	34	.354	.345	.331	2.20	.57	4.1	4.5	4.4	4.3
September	25.519	25.750	25.200	51.4	73.6	76.6	79.9	48.2	64.0	89	33	33	34	31	50	24	20	.192	.199	.174	.07	.07	1.9	1.7	1.9	2.6
October	25.483	25.800	25.110	43.6	59.3	59.3	64.9	39.7	52.3	83	25	28	30	28	58	37	35	.156	.167	.157	.76	.60	3.8	3.6	3.7	4.0
November	25.553	25.912	25.060	28.1	36.9	36.4	42.7	25.3	34.0	52	15	23	27	26	81	66	66	.122	.143	.140	.49	.14	5.4	5.4	5.4	5.9
December	25.474	25.880	24.951	25.1	29.3	29.1	33.9	20.6	27.2	46	−5	20	22	22	80	74	74	.111	.118	.118	1.82	.40	7.5	7.7	7.7	7.8
Year	25.480	26.100	24.900	38.3	51.6	52.8	57.1	35.2	46.2	98	−20	28	29	28	68	49	47	.170	.174	.164	14.15	.93	4.9	5.0	5.4	5.3

POINT REYES, CALIF.

[ϕ=38° 11′ N.; λ=122° 51′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.556	29.850	28.880			48.1	52.3	42.8	47.6	64	31			41			80			0.265	2.06	1.01			3.5	3.9
February	29.488	29.810	29.010			48.8	51.4	44.3	47.8	58	38			45			88			.303	2.69	.58			5.8	6.0
March	29.552	29.810	28.970			49.3	51.9	44.6	48.2	56	34			45			87			.303	1.97	.41			6.0	6.3
April	29.530	29.850	29.240			48.3	50.2	43.2	46.7	61	40			44			86			.289	.19	.16			2.9	3.3
May	29.460	29.720	29.200			51.0	55.0	45.9	50.4	79	41			49			92			.342	.39	.22			2.0	4.6
June	29.438	29.610	29.265			55.2	57.9	49.2	53.6	68	46			53			92			.402	.07	.04			3.2	7.8
July	29.465	29.570	29.280			55.9	58.2	51.2	54.7	66	47			53			91			.405	.00	.00			4.9	9.0
August	29.423	29.560	29.210			56.0	57.8	50.3	54.0	66	47			54			92			.410	.00	.00			.5	6.6
September	29.397	29.580	29.240			57.3	60.7	51.8	56.2	79	49			54			91			.426	.02	.02			.8	5.6
October	29.447	29.580	29.200			55.9	59.2	51.4	55.3	76	47			52			89			.388	1.77	1.06			3.7	6.5
November	29.528	29.830	28.970			53.0	57.0	47.5	52.2	71	42			48			87			.343	3.40	1.69			2.6	3.8
December	29.542	29.810	29.040			49.9	53.7	45.8	49.8	62	40			48			94			.337	5.43	1.36			6.1	6.8
Year	29.486	29.850	28.880			52.4	55.4	47.3	51.4	79	31			49			89			.351	17.99	1.69			3.5	5.8

PORT ANGELES, WASH.

[ϕ=48° 07′ N.; λ=123° 06′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	30.146	30.710	29.600		39.9	36.9	40.9	30.8	35.8	50	22		34	33		80	84		0.198	0.185	1.59	0.56		5.7	6.0	6.5
February	29.951	30.480	29.270		41.1	39.6	42.5	30.7	36.6	50	21		35	34		79	80		.203	.195	2.11	.90		6.0	6.8	6.8
March	29.943	30.420	29.450		45.1	44.2	46.5	33.1	39.8	55	28		38	36		76	75		.227	.215	2.26	1.01		5.9	7.0	6.4
April	30.123	30.510	29.530		48.6	49.2	51.5	36.7	44.1	58	31		42	39		76	70		.262	.243	.91	.21		5.6	5.4	5.4
May	30.075	30.494	29.670		54.7	55.0	57.2	40.4	48.8	74	32		44	42		68	65		.285	.274	.34	.10		4.4	5.1	5.1
June	30.051	30.310	29.770		59.1	57.1	62.2	48.0	55.1	71	43		49	48		69	65		.347	.337	.19	.17		3.5	2.5	3.5
July	30.103	30.200	29.810		61.2	62.6	65.4	48.3	56.8	83	45		51	50		70	65		.371	.363	.00	.00		1.2	1.7	3.5
August	30.015	30.220	29.740		62.8	62.8	66.5	50.3	58.4	84	44		53	53		71	72		.401	.401	.48	.24		5.2	4.5	5.7
September	30.014	30.400	29.606		59.7	59.4	62.3	46.5	54.4	79	41		52	51		76	74		.387	.374	1.38	.44		4.4	5.8	5.9
October	30.001	30.410	29.550		53.9	53.4	55.5	44.0	49.8	74	34		48	47		80	81		.330	.329	1.67	1.08		5.6	6.7	7.2
November	30.110	30.600	29.673		46.4	43.5	47.5	35.9	41.7	56	30		41	39		82	85		.258	.238	1.56	.63		7.4	5.9	8.1
December	29.927	30.430	29.100		39.4	37.2	40.5	31.4	36.0	54	20		36	35		87	91		.218	.207	7.73	2.11		8.0	9.0	8.9
Year	30.038	30.710	29.100		51.0	50.1	53.2	39.7	46.4	84	20		44	42		76	76		.291	.280	20.22	2.11		5.2	5.5	6.1

PORT ARTHUR, TEX.

[ϕ=29° 52′ N.; λ=93° 55′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	30.084	30.380	29.520	47.9	52.4	51.0	55.8	44.9	50.4	75	31	46	47	47	92	83	87	0.322	0.335	0.333	5.06	1.84	7.5	7.0	7.4	7.6
February	30.043	30.530	29.680	55.4	62.5	59.9	65.9	52.6	59.2	76	34	52	54	54	90	76	83	.414	.441	.441	3.48	1.48	6.4	5.5	4.9	6.1
March	30.000	30.340	29.620	56.4	64.0	62.5	67.8	53.9	60.8	79	31	50	50	53	80	64	73	.389	.406	.434	3.88	1.90	5.3	4.8	4.7	4.8
April	29.954	30.430	29.650	67.7	75.2	72.3	77.2	65.4	71.3	82	52	63	63	65	85	67	78	.591	.597	.630	1.24	.48	5.6	5.3	7.1	6.0
May	29.866	30.060	29.680	73.4	80.4	77.3	82.8	70.3	76.6	90	61	68	67	68	84	64	74	.695	.666	.695	3.49	1.10	4.2	3.9	4.8	4.8
June	29.936	30.080	29.820	77.5	84.0	81.6	87.5	74.3	80.9	93	67	73	71	72	86	66	74	.807	.769	.791	8.46	2.69	3.5	4.1	4.5	4.5
July	30.006	30.190	29.870	78.7	85.1	82.3	88.3	75.5	81.9	94	68	73	71	72	84	64	73	.818	.767	.796	3.53	1.02	3.4	4.6	4.5	4.5
August	29.916	30.060	29.780	77.4	86.5	83.5	89.3	75.2	82.2	94	69	73	72	73	87	63	72	.819	.780	.815	1.62	1.13	4.3	4.8	4.6	4.7
September	29.948	30.110	29.800	72.9	83.3	80.5	86.4	71.4	78.9	91	66	69	70	72	89	66	75	.720	.743	.773	2.10	1.00	3.4	4.4	3.5	4.8
October	29.914	30.180	29.720	61.1	76.0	71.6	79.5	58.6	69.0	89	48	56	56	60	84	53	70	.468	.476	.550	3.16	1.52	1.7	2.2	2.1	3.9
November	30.062	30.240	29.800	58.5	67.8	64.8	70.9	56.7	63.8	81	41	53	54	56	83	63	76	.433	.457	.489	1.78	.73	5.3	5.9	4.8	6.6
December	30.038	30.310	29.680	56.7	64.8	61.5	68.5	53.6	61.1	79	34	54	54	56	92	72	83	.452	.466	.482	6.98	3.73	4.6	4.8	4.3	5.7
Year	29.981	30.530	29.520	65.3	73.5	70.7	76.7	62.7	69.7	94	31	61	61	62	86	67	76	.577	.574	.602	44.64	3.73	4.6	4.8	4.8	5.3

Annual meteorological summary for the year ending December 31, 1922—Continued.

POCATELLO, IDAHO.

[H_b=4,477 ft.; h_1=60 ft.; h_r=52 ft.; h_a=68 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	8.3	SE.	36	SW.	0	0	0	0	28	5	11	6	12	0	5	8	18	10	5	16	9	0	0	26	0	31	0	0
February	10.3	SE.	48	S.	1	3	0	1	14	8	15	8	7	0	3	8	17	15	12	18	13	0	0	16	0	28	0	0
March	10.5	SE.	44	SW.	2	1	0	2	27	14	10	5	3	0	7	8	16	8	5	10	6	0	0	9	0	24	0	0
April	8.2	SE.	36	SW.	0	2	0	1	19	11	21	5	1	0	5	10	15	13	10	15	9	0	0	1	0	16	0	0
May	8.8	SW.	55	SW.	1	7	1	1	12	8	25	2	6	0	13	11	7	7	5	4	2	0	0	0	0	2	2	0
June	7.1	SE.	36	SW.	0	3	0	2	22	8	14	5	6	0	17	10	3	6	4	0	0	0	0	0	5	0	7	0
July	7.8	SE.	46	S.	1	2	0	1	28	5	15	7	3	1	15	13	3	2	1	0	0	0	0	0	10	0	5	0
August	7.4	SE.	38	SW.	0	3	0	3	17	18	7	5	7	2	14	11	6	14	11	0	0	3	0	0	6	0	17	0
September	7.2	SE.	34	SW.	0	7	0	0	24	5	11	10	2	1	20	8	2	2	1	0	0	0	0	0	0	0	2	0
October	8.3	SE.	40	SW.	1	4	0	0	17	13	20	4	4	0	17	6	8	4	3	2	0	0	0	0	0	3	1	0
November	5.9	SE.	40	SW.	1	6	0	1	11	7	18	9	5	3	11	4	15	6	5	7	1	0	3	3	0	28	0	0
December	11.5	S.	43	S.	2	1	3	0	19	15	17	4	3	0	2	8	21	10	9	17	9	1	1	12	0	29	1	0
Year	8.4	SE.	55	SW.	9	39	4	12	238	117	184	70	59	7	129	105	131	97	71	89	49	4	4	67	21	161	35	0

POINT REYES, CALIF.

[H_b=490 ft.; h_1=7 ft.; h_r=4 ft.; h_a=18 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	18.1	NW.	84	NW.	11	2	1	1	3	1	2	1	20	0	15	10	6	11	8	1	1	0	6	0	0	1	0	0
February	21.8	NW.	80	S.	14	0	0	0	1	9	3	1	14	0	8	5	15	16	13	0	0	1	7	0	0	0	0	0
March	18.9	NW.	61	NW.	12	0	0	0	0	7	5	1	18	0	8	6	17	13	10	0	0	1	8	0	0	0	0	0
April	32.8	NW.	74	NW.	22	2	0	0	0	0	0	0	28	0	18	6	6	3	1	0	0	0	8	0	0	0	0	0
May	27.4	NW.	73	NW.	16	5	0	0	0	3	2	0	21	0	14	7	10	3	3	0	0	0	16	0	0	0	0	0
June	16.8	NW.	54	NW.	4	4	0	0	0	5	3	3	15	0	4	4	22	3	0	0	0	0	25	0	0	0	0	0
July	17.0	NW.	50	NW.	6	0	0	0	0	7	4	2	18	0	1	3	27	0	0	0	0	0	23	0	0	0	0	0
August	27.1	NW.	60	NW.	16	3	0	0	0	1	0	0	27	0	7	8	16	0	0	0	0	0	24	0	0	0	0	0
September	20.3	NW.	57	NW.	9	12	0	0	1	2	0	0	14	1	12	4	14	1	0	0	0	0	20	0	0	0	0	0
October	19.3	NW.	56	NW.	8	6	0	0	0	5	2	1	17	0	6	10	15	10	8	0	0	0	17	0	0	0	2	0
November	18.4	NW.	72	NW.	9	6	0	1	0	5	1	0	17	0	15	8	7	4	4	0	0	0	10	0	0	0	1	0
December	17.3	S.	81	S.	10	4	3	2	2	11	0	1	7	1	6	9	16	16	15	0	0	0	15	0	0	0	0	0
Year	21.3	NW.	84	NW.	137	44	4	4	7	56	22	10	216	2	114	80	171	80	62	1	1	2	179	0	0	1	3	0

PORT ANGELES, WASH.

[H_b=29 ft.; h_1=8 ft.; h_r=3 ft.; h_a=53 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	6.3	S.	38	N.	0	0	4	1	5	13	7	1	0	0	6	10	15	12	9	2	2	1	1	1	0	21	0	0
February	5.7	S.	34	SW.	0	0	4	7	1	3	7	2	2	2	7	4	17	14	9	5	1	0	0	0	0	20	0	0
March	5.8	S.	32	W.	0	0	5	1	0	0	7	11	6	1	8	9	14	15	10	3	2	1	0	0	0	14	0	0
April	7.3	SW.	32	W.	0	2	1	2	0	0	2	14	9	0	8	10	12	14	9	0	0	2	0	0	0	3	1	0
May	6.6	S.	34	W.	0	1	2	4	1	0	1	11	11	0	12	8	11	8	3	0	0	0	1	0	0	1	1	0
June	7.2	SW.	24	W.	0	0	0	4	0	0	2	12	12	0	20	6	4	2	2	0	0	0	0	0	0	0	0	0
July	7.0	NW.	25	W.	0	0	1	0	0	0	0	15	15	0	20	8	3	0	0	0	0	0	1	0	0	0	0	0
August	5.4	SW.	19	SW.	0	1	2	1	0	0	4	12	11	0	8	12	11	8	4	0	0	0	0	0	0	0	1	0
September	4.4	S.	30	W.	0	2	0	4	2	0	3	10	8	1	10	8	12	10	8	0	0	0	4	0	0	0	0	0
October	4.2	S.	24	W.	0	2	0	8	6	3	4	7	0	1	7	3	21	12	6	0	0	0	4	0	0	0	0	0
November	5.3	S.	38	SW.	0	0	0	4	7	12	6	0	1	0	4	3	23	11	7	0	0	0	0	0	0	4	0	0
December	6.5	S.	42	NE.	1	2	2	2	5	12	7	1	0	0	0	6	25	24	20	9	8	0	1	4	0	15	0	0
Year	6.0	W.	42	NE.	1	10	21	38	27	43	50	96	75	5	110	87	168	130	87	19	13	4	12	5	0	78	3	0

PORT ARTHUR, TEX.

[H_b=34 ft.; h_1=58 ft.; h_r=51 ft.; h_a=66 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	11.2	NE.	37	NW.	0	18	21	4	5	6	2	2	4	0	5	5	21	21	14	0	0	0	0	0	0	1	1	0
February	10.8	SE.	39	NW.	0	9	9	6	9	12	2	2	6	1	9	6	13	10	6	0	0	0	1	0	0	0	3	0
March	12.5	SE.	42	SE.	1	13	4	7	19	5	2	5	7	0	13	5	13	11	7	0	0	0	0	0	0	1	7	0
April	12.5	SE.	38	S.	0	7	4	7	24	10	4	0	4	0	4	18	8	7	6	0	0	0	0	0	0	0	4	0
May	9.9	SE.	48	NW.	2	13	2	2	16	15	5	3	5	1	9	15	7	11	10	0	0	1	0	0	1	0	11	0
June	7.4	SE.	28	NW.	0	10	3	5	10	13	8	5	5	1	13	10	7	12	11	0	0	0	0	0	11	0	15	0
July	7.9	S.	29	N.	0	7	6	1	2	27	10	4	4	1	14	10	7	13	11	0	0	0	0	0	7	0	15	0
August	7.1	S.	30	NE.	0	12	10	3	7	15	5	6	4	0	8	20	3	4	3	0	0	0	0	0	15	0	11	0
September	7.5	NE.	24	NE.	0	15	16	5	10	7	2	1	2	2	11	10	9	12	8	0	0	0	0	0	6	0	10	0
October	7.5	N.	32	S.	0	20	13	3	7	8	5	1	5	0	20	5	6	6	6	0	0	0	3	0	0	0	4	0
November	9.3	NE.	24	NE.	0	18	10	14	9	2	3	2	2	0	8	4	18	5	4	0	0	0	1	0	0	0	1	0
December	9.0	S.	36	SW.	0	12	8	2	14	12	3	0	4	1	10	8	13	11	8	0	0	1	4	0	0	0	8	0
Year	9.4	N.	48	NW.	3	154	106	59	132	132	51	37	52	7	124	116	125	123	94	0	0	2	9	0	40	2	90	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

PORT HURON, MICH.

[ϕ=43° 00′ N.; λ=82° 26′ W.]

Month.	Pressure.			Temperature.								Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.445	30.015	28.780	18.7	24.9	23.3	30.0	14.5	22.2	51	−3	16	18	18	86	72	77	0.091	0.100	0.101	1.10	0.69	6.3	4.5	4.0	4.5
February	29.362	29.960	28.600	24.2	28.8	27.5	33.3	19.3	26.3	54	1	20	22	22	85	75	79	.116	.125	.125	1.07	.49	7.2	7.5	6.8	6.8
March	29.362	29.950	28.500	30.4	37.0	35.5	41.6	27.4	34.5	66	16	26	28	28	83	71	76	.141	.158	.158	2.79	.93	6.8	5.5	5.2	5.2
April	29.341	29.740	28.410	42.6	50.0	45.1	53.5	36.4	45.0	76	28	36	36	36	78	60	70	.224	.225	.217	3.39	1.52	5.7	5.0	5.4	4.6
May	29.278	29.720	28.428	57.0	65.5	60.0	68.7	49.9	59.3	84	39	49	51	50	75	62	72	.353	.394	.377	2.82	1.70	4.5	5.3	5.1	4.6
June	29.290	29.570	28.848	63.1	72.3	67.8	75.4	55.8	65.6	95	46	56	58	58	79	61	73	.468	.487	.509	1.92	.86	4.5	4.9	4.2	4.3
July	29.328	29.620	29.040	66.8	75.5	70.7	77.9	59.9	68.9	88	46	59	59	59	77	57	68	.514	.494	.506	2.01	.47	4.5	4.5	4.4	4.2
August	29.312	29.607	28.770	61.2	75.3	70.6	77.3	58.6	68.0	94	45	58	60	61	82	61	72	.505	.550	.553	.89	.69	3.0	3.9	3.3	3.5
September	29.421	29.732	29.181	59.2	70.5	65.2	72.9	55.2	64.0	91	40	55	55	56	86	60	74	.449	.458	.474	6.38	2.23	4.1	4.0	3.5	3.7
October	29.300	29.750	28.819	46.6	56.2	52.2	60.2	43.1	51.6	86	30	42	44	45	86	66	78	.292	.310	.325	1.29	.53	5.1	5.0	4.1	5.3
November	29.354	29.810	28.830	38.3	44.3	41.4	46.8	35.0	40.9	64	20	34	36	34	84	72	76	.203	.222	.206	.74	.18	7.8	7.3	8.2	7.5
December	29.373	29.850	28.876	25.4	30.4	27.5	33.9	20.2	27.0	58	−1	22	23	23	87	73	81	.128	.127	.127	1.21	.36	6.3	5.9	6.8	6.4
Year	29.347	30.015	28.410	44.5	52.6	48.9	55.9	39.6	47.8	95	−3	39	41	41	82	66	75	.290	.304	.306	25.61	2.23	5.5	5.3	5.1	5.0

PORTLAND, ME.

[ϕ=43° 39′ N.; λ=70° 15′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	30.007	30.490	28.790	16.8	23.3	22.0	28.1	13.5	20.8	41	−7	8	8	10	66	51	60	0.066	0.068	0.075	3.40	2.07	4.4	3.5	2.7	3.5
February	29.970	30.460	29.170	20.0	26.5	25.5	32.1	16.2	24.2	53	−8	14	16	17	78	64	71	.091	.097	.103	5.05	1.08	6.8	6.0	4.0	5.7
March	29.949	30.458	29.150	31.3	37.9	36.1	42.4	27.4	34.9	70	8	23	23	26	71	58	67	.132	.133	.146	3.86	1.32	4.4	5.7	4.6	5.3
April	29.882	30.300	29.250	43.1	48.6	44.1	52.6	36.5	44.6	72	28	32	31	33	66	55	67	.187	.183	.190	5.17	3.30	4.4	5.4	3.6	5.1
May	29.900	30.328	29.510	55.9	60.7	55.4	64.5	47.1	55.8	87	38	42	39	42	62	51	66	.275	.250	.281	5.72	3.50	3.7	4.2	4.4	4.3
June	29.855	30.110	29.170	61.8	66.3	62.6	70.2	55.7	63.0	91	49	55	56	55	81	74	80	.443	.460	.448	10.47	4.96	5.8	5.5	4.9	6.5
July	29.912	30.190	29.630	66.3	70.8	66.8	74.6	60.3	67.4	90	54	59	58	59	77	66	78	.500	.499	.506	2.50	1.14	5.4	4.8	4.9	5.5
August	29.871	30.280	29.474	65.5	70.1	65.5	73.9	60.6	67.2	94	53	57	57	59	76	65	81	.479	.469	.506	2.75	1.17	5.1	5.7	5.4	5.8
September	30.009	30.400	29.470	57.9	64.7	59.7	68.0	52.0	60.0	81	38	51	50	53	78	61	79	.386	.383	.412	1.80	.99	4.1	4.3	2.2	4.4
October	29.840	30.394	29.281	46.4	52.8	49.2	57.4	41.7	49.6	83	24	38	39	39	72	62	70	.248	.263	.269	2.13	.72	4.8	5.3	3.5	5.2
November	29.850	30.224	29.130	36.1	43.2	39.6	45.6	33.1	39.4	59	20	28	28	29	72	57	66	.158	.163	.168	1.33	.72	5.5	5.9	5.9	6.0
December	30.009	30.570	29.490	21.0	25.9	24.6	30.7	17.0	23.8	53	−3	14	15	16	75	65	70	.090	.091	.098	4.81	2.10	6.8	6.4	4.5	7.0
Year	29.921	30.570	28.790	43.5	49.2	45.9	53.3	38.4	45.9	94	−8	35	35	36	73	61	71	.255	.255	.267	48.99	4.96	5.1	5.2	4.2	5.4

PORTLAND, OREG.

[ϕ=45° 32′ N.; λ=122° 41′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	30.019	30.468	29.545	33.3	37.4	37.8	40.4	29.9	35.2	52	16	29	30	29	85	74	71	0.166	0.170	0.167	3.08	0.64	7.3	7.6	6.9	7.4
February	29.861	30.320	29.230	36.5	42.0	42.9	45.5	34.3	39.9	56	22	31	32	31	80	66	65	.176	.183	.179	3.29	.91	7.5	8.8	8.0	8.3
March	29.866	30.340	29.450	38.8	46.4	47.5	49.8	36.8	43.3	63	30	35	35	36	86	66	66	.205	.208	.216	6.57	1.05	6.6	8.6	9.1	9.1
April	30.008	30.430	29.600	42.9	51.9	54.2	56.4	41.0	48.7	72	35	38	38	39	84	62	59	.231	.234	.238	3.05	.82	6.8	7.4	7.4	7.8
May	29.930	30.330	29.540	49.8	62.5	65.9	67.9	48.2	58.0	94	37	43	41	41	80	49	44	.285	.262	.258	1.60	.34	6.5	5.8	6.3	6.1
June	29.858	30.147	29.590	55.8	68.6	74.8	76.2	54.8	65.5	89	46	48	49	51	76	51	45	.337	.347	.378	.14	.06	6.1	4.0	3.5	5.0
July	29.911	30.120	29.695	57.9	71.2	78.9	79.6	56.9	68.2	95	49	52	52	53	80	52	42	.386	.390	.399	T.	T.	4.3	2.1	1.4	3.0
August	29.840	30.030	29.610	58.7	70.6	75.7	77.2	57.3	67.2	92	52	54	55	55	86	59	51	.425	.432	.441	2.06	.86	5.3	4.1	3.8	4.2
September	29.859	30.150	29.530	56.0	67.4	72.2	73.9	53.8	63.8	93	48	52	53	54	87	62	55	.388	.410	.423	1.90	.76	5.3	5.1	3.9	5.2
October	29.858	30.250	29.490	51.1	58.0	59.5	62.1	48.8	55.4	78	39	49	50	51	93	77	75	.350	.371	.382	4.70	1.88	7.3	8.0	6.7	7.7
November	30.005	30.410	29.446	40.8	46.7	45.9	48.8	36.3	43.6	56	28	37	38	38	86	73	74	.220	.230	.228	2.94	1.06	5.2	6.0	5.9	6.3
December	29.861	30.340	29.190	36.8	39.4	39.1	42.5	33.6	38.0	61	18	33	34	34	84	81	81	.203	.211	.210	9.43	1.32	8.6	8.5	8.5	8.5
Year	29.906	30.468	29.190	46.5	55.2	57.9	60.0	44.5	52.2	95	16	42	42	43	84	65	61	.281	.287	.293	38.76	1.88	6.4	6.3	6.0	6.6

PROVIDENCE, R. I.

[ϕ=41° 50′ N.; λ=71° 25′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.955	30.425	28.680	23.3	29.4	28.0	33.8	19.4	26.6	50	1	14	16	17	66	56	61	0.091	0.101	0.104	1.36	1.00	3.7	4.2	4.0	4.1
February	29.908	30.380	29.160	28.5	34.4	32.0	38.8	23.9	31.4	57	−5	22	24	22	76	65	66	.128	.137	.130	2.42	.77	6.1	6.0	4.7	6.0
March	29.891	30.440	29.160	36.0	43.5	39.4	47.2	30.7	39.0	75	14	26	27	27	68	54	64	.154	.158	.155	4.67	1.51	4.8	5.9	4.8	5.5
April	29.838	30.210	29.220	46.3	52.8	48.8	57.9	38.7	48.3	82	28	34	33	34	63	49	60	.203	.200	.212	2.18	.86	4.8	5.4	3.7	5.0
May	29.829	30.289	29.420	60.4	68.3	61.2	72.4	50.7	61.6	86	39	45	44	46	60	47	61	.311	.306	.326	4.24	2.31	3.4	4.9	4.5	4.2
June	29.794	30.060	29.244	68.1	73.7	68.5	76.7	60.5	68.6	91	51	59	59	59	74	63	73	.511	.512	.519	6.58	3.03	6.1	6.3	6.7	6.4
July	29.854	30.090	29.520	69.8	75.9	69.9	79.3	62.3	70.8	90	55	61	61	62	75	62	78	.546	.553	.575	6.88	3.83	5.7	5.1	5.9	5.5
August	29.813	30.150	29.470	68.5	74.5	68.8	77.5	61.7	69.6	91	52	60	60	61	77	64	78	.537	.536	.549	6.96	2.14	5.6	6.1	5.6	6.2
September	29.950	30.330	29.480	62.2	70.9	64.2	74.1	55.5	64.8	88	40	54	54	55	75	58	74	.436	.449	.459	3.25	2.50	4.3	4.5	2.6	4.3
October	29.792	30.320	29.290	52.1	60.2	54.1	62.7	45.0	53.8	87	28	43	43	43	71	55	68	.310	.321	.317	2.66	.95	4.1	4.3	3.9	4.5
November	29.812	30.190	29.130	40.2	46.6	42.6	49.1	35.3	42.2	63	21	30	30	32	67	55	66	.176	.179	.185	1.09	.53	4.6	5.5	4.7	5.5
December	29.940	30.490	29.360	27.9	32.8	30.7	36.5	23.4	30.0	55	7	21	23	24	75	68	75	.124	.134	.134	2.58	.68	6.5	6.7	5.6	6.6
Year	29.865	30.490	28.680	48.6	55.2	50.7	58.8	42.3	50.6	91	−5	39	40	40	71	58	69	.294	.299	.305	44.90	3.83	5.0	5.4	4.7	5.3

Annual meteorological summary for the year ending December 31, 1922—Continued.

PORT HURON, MICH.

[H_b=638 ft.; h_t=70 ft.; h_r=63 ft.; h_a=120 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or over.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles		*Mi.*																									
January	12.5	NW.	45	W.	3	4	7	6	2	4	14	15	10	0	13	11	7	7	4	13	6	0	0	19	0	31	0	0
February	13.0	NW.	58	W.	2	3	1	2	5	9	13	10	13	0	1	14	13	12	8	15	8	2	3	12	0	28	2	0
March	12.2	NE.	40	N.	1	6	15	8	6	10	6	0	11	0	11	11	9	13	11	10	7	0	0	5	0	21	1	0
April	12.7	NE.	50	W.	4	8	10	4	6	7	8	7	10	0	9	14	7	10	5	2	1	0	0	0	0	8	2	0
May	8.3	NE.	40	NW.	1	10	16	0	9	13	5	4	5	0	13	6	9	11	7	0	0	0	1	0	0	0	4	1
June	9.1	NE.	40	NW.	1	7	18	6	5	6	7	7	4	0	6	22	2	7	7	0	0	0	1	0	1	0	7	0
July	9.1	NE.	35	W.	0	7	18	3	4	8	11	3	7	1	9	18	4	11	10	0	0	0	0	0	0	0	7	1
August	8.5	NE.	36	NW.	0	8	9	7	3	13	3	3	9	2	15	15	1	5	4	0	0	0	0	0	3	0	7	0
September	8.7	NE.	32	S.	0	6	13	3	7	10	12	4	5	0	14	12	4	10	8	0	0	1	3	0	2	0	7	1
October	10.5	SW.	34	NW.	0	1	6	10	2	8	15	7	13	0	9	12	10	7	5	2	0	1	3	0	0	4	0	1
November	12.8	SW.	42	NW.	1	2	3	3	4	7	17	5	19	0	1	12	17	10	6	7	3	0	0	3	0	13	0	0
December	12.8	W.	49	W.	3	1	6	3	7	13	9	14	9	0	7	11	13	10	6	14	7	0	1	14	0	30	0	0
Year	10.8	NE.	58	W.	16	63	122	55	60	113	120	79	115	3	108	161	96	113	81	63	32	4	12	53	6	135	37	4

PORTLAND, ME.

[H_b=103 ft.; h_t=82 ft.; h_r=75 ft.; h_a=117 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or over.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	9.1	NW.	40	NE.	1	11	3	0	0	1	18	10	19	0	20	4	7	8	7	7	6	0	1	20	0	31	0	0
February	8.6	NW.	35	SE.	0	10	4	0	3	2	6	11	18	2	10	6	12	11	10	12	9	0	1	12	0	28	0	0
March	9.5	NW.	48	SE.	1	7	3	1	4	10	10	10	17	0	14	4	13	11	10	6	4	0	3	4	0	23	1	0
April	10.3	NW.	38	NW.	0	8	2	3	4	7	7	10	19	0	13	5	12	12	10	2	2	0	1	0	0	6	1	0
May	10.4	NW.	35	SE.	0	5	11	3	6	10	8	10	9	0	14	9	8	8	6	0	0	0	1	0	0	0	1	0
June	8.7	S.	42	SE.	1	5	2	13	5	13	10	6	6	0	7	10	13	17	15	0	0	0	8	0	2	0	6	0
July	7.7	S.	23	S.	0	6	3	7	5	21	11	5	3	1	10	10	11	11	9	0	0	0	3	0	0	0	4	0
August	7.9	S.	32	SE.	0	9	2	5	7	9	12	8	9	1	9	9	13	10	7	0	0	0	4	0	1	0	4	0
September	7.6	S.	26	NW.	0	5	5	2	4	15	13	6	9	1	14	7	9	8	5	0	0	0	8	0	0	0	2	0
October	9.0	NW.	42	S.	1	4	5	1	2	8	13	12	16	1	12	8	11	9	8	0	0	0	5	0	0	8	3	0
November	8.2	NW.	32	NW.	0	9	3	1	1	7	10	8	20	1	10	5	15	8	3	5	2	0	0	2	0	13	0	0
December	9.4	N.	38	N.	0	20	2	0	0	3	11	12	14	0	6	6	19	15	11	14	13	0	2	18	0	30	0	0
Year	8.9	NW.	48	SE.	4	99	45	36	41	106	129	108	159	7	139	83	143	128	101	46	36	0	37	56	3	139	22	0

PORTLAND, OREG.

[H_b=153 ft.; h_t=68 ft.; h_r=63 ft.; h_a=106 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or over.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	5.3	E.	26	S.	0	10	6	12	10	5	5	0	14	0	6	4	21	16	15	7	5	1	7	2	0	19	0	0
February	7.3	E.	25	E.	0	2	2	13	5	13	7	4	10	0	2	2	24	14	13	8	0	0	0	0	0	9	0	0
March	6.7	SW.	29	SW.	0	2	3	5	12	12	14	4	8	2	1	3	27	24	21	4	0	0	3	0	0	3	0	0
April	6.8	NW.	27	SW.	0	11	2	3	3	9	10	7	15	0	5	3	22	16	14	5	0	2	0	0	0	0	1	2
May	7.0	NW.	26	E.	0	9	6	4	2	12	9	7	13	0	8	8	15	13	13	2	0	1	0	0	1	0	0	0
June	5.9	NW.	18	N.	0	19	1	0	1	7	1	4	26	1	11	10	9	4	2	0	0	0	0	0	0	0	0	0
July	5.9	NW.	18	NW.	0	27	0	0	1	1	0	2	30	1	18	10	3	0	0	0	0	0	0	0	3	0	0	0
August	5.2	NW.	24	SW.	0	18	2	1	7	8	4	3	19	0	17	6	8	7	6	0	0	0	0	0	1	0	4	0
September	5.5	NW.	22	SW.	0	9	1	0	0	12	9	5	23	1	9	12	9	8	7	0	0	0	2	0	2	0	0	0
October	4.1	NW.	21	SW.	0	9	2	6	5	14	6	7	13	0	4	5	22	13	11	0	0	0	6	0	0	0	2	0
November	5.8	SE.	25	E.	0	12	3	11	12	9	2	1	9	1	8	7	15	14	12	1	1	0	5	0	0	2	0	0
December	7.4	SE.	26	SW.	0	6	3	10	14	10	14	2	2	1	4	1	26	25	19	6	5	0	4	6	0	13	0	0
Year	6.1	NW.	29	SW.	0	134	31	65	72	112	81	46	182	7	93	71	201	154	130	33	11	4	27	8	7	46	7	2

PROVIDENCE, R. I.

[H_b=160 ft.; h_a=215 ft.; h_r=211 ft.; h_a=251 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or over.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	14.6	NW.	60	NW.	5	9	4	1	2	1	6	16	23	0	14	11	6	8	4	11	5	0	2	9	0	31	0	0
February	13.0	NW.	49	NW.	8	4	6	0	2	7	10	8	19	0	10	5	13	14	9	13	8	0	2	5	0	23	0	0
March	13.3	NW.	53	S.	4	4	10	3	2	5	9	7	22	0	11	7	13	12	11	8	5	0	2	2	0	15	1	0
April	13.9	NW.	53	W.	4	8	2	0	5	9	7	8	21	0	14	3	13	9	7	4	1	0	1	0	0	5	2	0
May	11.9	NW.	48	NW.	3	4	7	4	8	9	12	7	11	0	12	15	4	6	5	0	0	0	0	0	0	0	2	0
June	11.1	S.	61	NW.	2	3	2	3	6	20	12	8	6	0	6	10	14	13	10	0	0	0	0	0	2	0	5	0
July	9.8	S.	48	NW.	2	8	12	4	2	17	11	5	3	0	10	12	9	14	10	0	0	0	0	0	3	0	4	0
August	9.7	NW.	35	S.	0	13	7	1	2	11	10	10	8	0	8	10	13	12	10	0	0	0	0	0	2	0	8	0
September	9.1	SW.	35	S.	0	10	5	0	3	14	11	8	9	0	14	10	6	3	3	0	0	0	1	0	0	0	2	0
October	12.7	NW.	48	NW.	4	5	5	1	3	9	12	5	21	1	15	5	11	8	7	0	0	0	3	0	0	2	1	1
November	13.0	NW.	55	NW.	2	5	5	1	2	3	5	9	29	1	9	9	12	8	5	4	2	0	0	0	0	11	0	0
December	12.3	NW.	61	NW.	6	12	4	1	3	3	7	14	18	0	7	7	17	12	11	9	6	0	3	9	0	26	0	0
Year	12.0	NW.	61	NW.	40	85	69	19	40	108	112	105	190	2	130	104	131	119	92	49	27	0	14	25	7	113	25	1

Annual meteorological summary for the year ending December 31, 1922—Continued.

PUEBLO, COLO.

[ϕ=38° 18′ N.; λ=104° 36′ W.]

Month.	Pressure.			Temperature.								Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	25.234	25.650	24.730	17.0	34.8	32.8	41.1	11.1	26.1	61	−5	10	16	16	74	49	60	0.067	0.093	0.088	0.39	0.14	2.5	3.5	3.3	3.8
February	25.215	25.620	24.780	23.0	42.9	40.8	48.0	18.4	33.2	69	−2	13	13	14	66	32	35	.076	.079	.080	.37	.34	3.9	4.6	4.0	5.1
March	25.180	25.590	24.700	30.4	50.1	51.9	56.6	26.5	41.6	72	−13	20	20	19	65	34	29	.109	.112	.107	.29	.27	4.1	5.7	5.4	5.6
April	25.184	25.610	24.710	38.9	55.0	56.8	61.0	36.6	48.8	78	20	30	29	28	72	41	39	.176	.167	.161	1.21	.45	5.6	5.0	5.6	5.6
May	25.253	25.570	24.760	49.2	68.2	66.8	72.7	46.0	59.4	87	36	38	35	35	68	32	36	.240	.212	.213	1.67	.39	4.4	4.8	5.8	5.1
June	25.313	25.590	25.000	58.2	81.9	80.6	86.8	56.7	71.8	98	43	48	45	48	70	30	35	.339	.311	.343	.53	.17	2.2	4.2	6.3	4.5
July	25.369	25.610	24.967	61.5	85.0	83.0	90.1	59.7	74.9	101	53	50	47	47	69	30	33	.371	.334	.335	.29	.17	4.4	4.3	7.1	5.5
August	25.362	25.530	25.181	62.9	86.9	82.6	90.9	62.1	76.5	98	56	53	50	51	72	30	36	.411	.367	.377	.69	.45	2.9	3.6	6.2	4.6
September	25.372	25.650	25.116	55.0	78.7	78.3	83.5	53.1	68.3	92	39	39	38	38	57	26	26	.247	.239	.237	.09	.08	4.0	5.4	4.7	3.8
October	25.309	25.590	24.813	39.5	66.5	63.6	71.5	36.9	54.2	90	21	25	26	27	55	23	26	.136	.140	.144	.19	.19	2.0	2.1	2.8	2.6
November	25.316	25.660	24.600	30.1	45.4	42.1	50.4	24.8	37.6	68	5	23	25	26	75	48	57	.120	.137	.143	1.26	.60	4.2	6.0	3.5	5.6
December	25.226	25.610	24.820	27.5	46.7	42.1	52.1	20.9	36.5	65	6	18	19	18	69	36	38	.097	.102	.098	T.	T.	2.3	4.0	2.4	4.0
Year	25.278	25.660	24.600	41.1	61.8	60.1	67.1	37.7	52.4	101	−13	31	30	31	68	34	37	.199	.191	.194	6.98	.60	3.5	4.3	4.8	4.6

RALEIGH, N. C.

[ϕ=35° 45′ N.; λ=78° 37′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.777	30.190	28.680	34.7	41.2	39.9	46.3	31.0	38.6	72	18	31	33	32	86	74	74	0.187	0.203	0.199	4.09	1.19	6.3	7.7	5.4	7.4
February	29.738	30.160	29.200	42.2	50.2	49.8	56.7	39.3	48.0	76	13	39	41	42	88	72	76	.259	.284	.290	7.14	2.34	8.3	7.4	5.3	6.8
March	29.716	30.140	29.110	47.0	57.0	54.5	63.0	42.5	52.8	82	30	44	44	45	82	66	74	.287	.329	.325	5.47	1.60	5.9	6.4	3.9	5.5
April	29.702	30.050	29.100	55.6	65.5	64.3	70.7	51.2	61.0	90	39	49	51	52	80	63	67	.364	.412	.415	2.57	1.33	5.7	5.8	5.3	4.9
May	29.592	30.050	29.020	64.7	74.5	71.1	79.1	59.0	69.0	90	46	58	57	58	81	56	66	.500	.475	.495	4.05	1.00	6.4	6.9	6.5	5.5
June	29.601	29.810	29.370	72.8	81.8	77.0	85.8	67.7	76.8	93	61	66	65	66	81	57	71	.652	.618	.643	5.91	1.35	6.3	6.3	6.5	5.3
July	29.648	29.849	29.400	74.1	83.3	78.6	87.2	69.9	78.6	94	62	70	68	69	86	60	74	.722	.674	.710	4.08	1.90	6.9	7.0	5.7	5.3
August	29.619	29.866	29.360	70.6	79.7	73.7	83.5	65.4	74.4	92	53	66	64	66	84	61	77	.635	.615	.639	7.10	2.58	5.5	6.2	5.9	5.6
September	29.705	29.960	29.460	66.9	78.8	73.6	82.2	63.2	72.7	91	54	62	62	63	84	56	69	.562	.566	.584	.11	.11	5.1	5.4	3.6	4.9
October	29.640	30.020	29.290	56.5	68.8	64.0	72.8	53.5	63.2	88	42	50	50	50	81	55	64	.393	.389	.391	3.74	1.82	4.5	4.2	3.5	4.2
November	29.744	30.080	29.180	44.6	57.3	53.3	61.2	41.9	51.6	75	25	38	39	40	78	51	62	.250	.256	.273	.36	.16	3.6	3.5	3.8	3.6
December	29.739	30.140	29.050	41.7	49.8	48.0	54.4	38.2	46.3	72	23	38	43	43	87	80	85	.247	.299	.294	3.47	.54	6.7	7.5	6.8	7.3
Year	29.685	30.190	28.680	56.0	65.7	62.3	70.2	51.9	61.1	94	13	51	51	52	83	63	72	.422	.427	.438	48.09	2.58	5.9	6.2	5.2	5.5

RAPID CITY, S. DAK.

[ϕ=44° 04′ N.; λ=103° 12′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	26.589	27.020	26.124	14.3	22.8	17.7	27.9	5.6	16.8	50	−16	6	12	8	68	62	66	0.065	0.080	0.068	0.97	0.40	5.0	5.5	5.3	5.5
February	26.593	27.156	26.000	10.0	17.9	15.5	26.4	3.1	14.8	55	−12	2	8	5	67	64	62	.048	.065	.059	.44	.34	3.8	6.4	6.2	6.0
March	26.533	27.050	25.080	29.7	41.6	40.0	47.3	23.4	35.4	70	−3	18	22	23	64	48	53	.103	.124	.127	.10	.09	5.2	1.9	4.2	4.9
April	26.558	26.903	26.028	36.6	47.7	48.5	52.9	33.7	43.3	74	20	27	30	32	67	56	58	.146	.174	.185	3.22	1.45	6.7	6.6	7.3	6.7
May	26.560	26.978	25.865	49.5	61.2	59.9	66.2	45.8	56.0	80	37	40	38	39	70	44	51	.250	.234	.252	3.73	2.11	5.5	5.5	3.6	5.7
June	26.609	26.955	26.260	61.3	73.7	73.7	79.0	56.4	67.7	99	41	49	51	54	66	47	52	.353	.388	.424	2.62	.94	4.2	3.1	4.8	4.2
July	26.672	26.900	26.140	60.6	73.8	75.0	79.1	55.9	67.5	100	47	52	54	55	73	53	52	.389	.426	.438	4.33	1.03	4.4	4.1	4.2	4.4
August	26.625	26.840	26.380	64.2	81.0	81.6	85.8	60.9	73.4	96	52	52	54	54	64	42	41	.387	.433	.433	1.22	.75	3.9	2.5	3.0	3.3
September	26.658	27.020	26.333	53.3	74.0	73.3	79.2	49.6	64.4	94	40	38	38	40	58	31	33	.232	.241	.261	.76	.72	3.1	2.8	2.7	3.1
October	26.613	26.970	26.150	42.9	61.4	55.9	65.5	36.4	51.0	91	16	25	28	28	51	33	38	.136	.151	.153	.60	.53	4.3	3.8	3.1	3.9
November	26.640	27.160	25.973	33.0	40.5	35.9	44.0	27.4	35.7	63	14	23	28	26	67	63	70	.125	.154	.147	3.24	2.56	4.9	5.3	4.6	5.6
December	26.552	26.920	26.060	19.1	28.8	21.9	33.1	12.4	22.8	59	−16	10	14	13	65	58	66	.077	.092	.091	.28	.20	3.6	5.6	4.2	5.3
Year	26.599	27.160	25.865	39.5	52.0	49.9	57.2	34.2	45.7	100	−16	28	31	31	65	50	54	.193	.214	.220	21.50	2.56	4.6	4.4	4.4	4.9

READING, PA.

[ϕ=40° 20′ N.; λ=75° 58′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.838	30.314	28.556	24.3	30.2	28.7	34.6	21.0	27.8	51	6	19	23	23	78	73	77	0.108	0.128	0.124	2.16	0.99	4.8	5.6	4.2	5.6
February	29.787	30.263	29.072	30.6	36.7	35.5	42.1	27.0	34.6	72	2	25	28	28	79	71	75	.142	.160	.163	2.60	.87	6.1	5.7	5.2	6.1
March	29.753	30.343	28.968	38.4	45.5	43.4	49.8	33.9	41.8	76	18	33	36	35	80	71	74	.197	.228	.218	4.11	1.02	6.5	6.2	5.3	5.7
April	29.723	30.154	28.841	49.5	56.1	54.6	61.4	43.3	52.4	85	31	38	40	41	66	57	61	.252	.273	.275	1.88	.68	5.5	5.3	5.5	5.2
May	29.643	30.157	29.020	61.0	71.1	67.1	75.6	54.6	65.1	85	38	50	50	52	68	51	61	.372	.382	.400	3.23	1.03	5.1	5.0	4.1	5.1
June	29.620	29.830	29.190	69.2	76.5	73.2	81.0	63.1	72.0	89	52	61	62	62	75	64	70	.541	.583	.569	7.23	2.23	6.0	5.6	6.1	5.7
July	29.681	29.910	29.380	70.9	79.7	74.2	83.6	65.3	74.4	93	58	62	64	64	76	59	71	.577	.599	.601	3.58	1.18	5.5	5.5	5.6	5.3
August	29.650	29.982	29.300	67.1	76.8	71.7	81.1	62.7	71.9	92	54	60	61	62	80	60	72	.532	.548	.563	5.21	2.44	6.2	5.7	5.1	5.8
September	29.775	30.150	29.380	61.9	74.2	69.2	78.4	57.8	68.1	94	40	56	58	58	82	58	69	.466	.495	.508	1.16	.86	4.1	3.6	2.9	4.5
October	29.662	30.113	29.200	52.2	63.7	59.2	68.2	47.8	58.0	89	30	44	45	47	72	52	64	.311	.335	.347	1.18	.61	3.6	3.9	3.0	3.5
November	29.717	30.138	29.115	41.9	49.2	46.2	52.7	38.9	45.8	65	27	34	36	36	74	61	68	.209	.220	.220	.55	.27	5.7	6.0	4.7	5.6
December	29.790	30.258	29.110	29.6	35.7	34.6	39.4	26.7	33.0	54	12	25	28	27	81	72	74	.136	.154	.150	3.18	1.11	7.6	6.4	5.5	6.9
Year	29.720	30.343	28.556	49.7	58.0	54.8	62.3	45.2	53.7	94	2	42	44	45	76	62	70	.320	.342	.345	36.16	2.44	5.6	5.0	4.8	5.4

Annual meteorological summary for the year ending December 31, 1922—Continued.

PUEBLO, COLO.

[H_b=4,685 ft.; h_t=80 ft.; h_r=72 ft.; h_a=86 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	5.8	NW.	38	NW.	0	6	4	8	11	0	3	11	19	0	17	10	4	5	5	5	5	0	0	8	0	31	0	0
February	8.2	NW.	48	NW.	3	4	3	8	14	1	4	11	11	0	5	19	4	3	1	6	3	0	0	3	0	26	0	0
March	5.1	NW.	27	W.	0	6	8	6	10	1	5	7	18	1	7	17	7	2	1	3	2	0	0	1	0	22	1	0
April	6.5	E.	35	W.	0	6	7	10	10	4	3	9	11	0	8	13	9	8	5	5	4	0	1	0	0	7	3	0
May	7.7	E.	40	W.	1	7	11	10	9	0	3	10	11	1	10	17	4	10	9	0	0	2	0	0	0	0	7	0
June	6.3	N.	36	NW.	0	13	2	10	5	2	8	5	14	1	9	20	1	7	5	0	0	0	1	0	16	0	10	0
July	6.5	E.	35	NW.	0	13	10	10	6	1	3	5	14	0	4	23	4	5	3	0	0	0	0	0	18	0	11	0
August	6.0	NW.	41	E.	1	15	6	9	9	2	3	3	14	1	9	22	0	9	2	0	0	0	0	0	20	0	12	0
September	5.4	E.	34	W.	0	9	5	15	6	3	1	8	13	0	14	14	2	2	1	0	0	0	0	0	5	0	2	0
October	5.2	NW.	27	NE.	0	10	6	15	8	0	3	9	10	1	21	9	1	2	2	0	0	0	0	0	1	8	0	0
November	6.1	NW.	44	NW.	1	7	1	11	4	3	5	16	13	0	9	12	9	7	6	7	7	0	2	2	0	27	1	0
December	6.3	W.	42	W.	1	7	5	14	8	2	2	13	11	0	15	13	3	0	0	3	0	0	0	2	0	30	0	0
Year	6.3	NW.	48	NW.	7	103	68	126	100	19	43	107	159	5	128	189	48	60	40	29	21	2	4	16	60	151	47	0

RALEIGH, N. C.

[H_b=376 ft.; h_t=103 ft.; h_r=94 ft.; h_a=110 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	10.0	NE.	33	W.	0	10	18	3	2	1	17	3	8	0	6	3	22	11	9	4	3	0	4	4	0	19	0	0
February	8.7	SW.	35	NE.	0	9	10	6	3	6	14	3	5	0	5	11	12	12	11	2	1	0	1	2	0	8	0	0
March	9.3	SW.	52	W.	2	6	8	8	3	7	15	5	10	0	11	7	13	13	12	0	0	0	0	0	0	3	1	0
April	10.1	SW.	44	SW.	1	10	11	7	4	2	17	5	4	0	11	9	10	9	7	0	0	0	0	0	1	0	0	0
May	7.4	SW.	35	W.	0	5	11	6	8	9	15	4	4	0	10	10	11	14	9	0	0	0	0	0	1	0	8	0
June	6.9	SW.	27	NW.	0	1	7	5	3	11	21	6	6	0	9	13	8	16	12	0	0	0	0	0	6	0	9	0
July	6.7	SW.	31	NW.	0	3	10	1	5	9	23	9	2	0	8	15	5	9	7	0	0	0	0	0	13	0	6	0
August	6.4	SW.	34	W.	0	2	14	3	5	6	23	4	3	2	8	12	11	13	11	0	0	0	1	0	3	0	7	0
September	6.4	NE.	22	NE.	0	3	25	8	6	4	7	3	3	1	7	17	6	1	1	0	0	0	4	0	3	0	1	0
October	7.3	NE.	30	S.	0	5	20	4	4	4	17	4	3	1	15	7	9	9	9	0	0	0	1	0	0	0	0	0
November	7.5	N.	33	NW.	0	16	8	2	3	2	17	6	6	0	17	6	7	3	3	0	0	0	0	0	0	7	0	0
December	8.0	SW.	40	W.	1	4	13	7	2	5	20	7	4	0	7	4	20	17	15	1	1	0	1	0	0	7	0	0
Year	7.9	SW.	52	W.	4	74	155	60	48	66	206	59	58	4	114	117	134	127	106	7	5	0	12	6	27	44	32	0

RAPID CITY, S. DAK.

[H_b=3,259 ft.; h_t=50 ft.; h_r=43 ft.; h_a=58 ft.

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	7.9	N.	40	NW.	1	15	5	4	6	1	1	15	15	0	11	8	12	9	6	15	9	0	0	17	0	31	0	0
February	7.7	N.	48	SW.	2	22	3	3	10	1	3	10	4	0	7	11	10	6	3	9	6	0	0	18	0	28	0	0
March	9.2	W.	42	NW.	1	19	3	4	8	1	4	15	8	0	10	14	7	2	1	2	2	0	1	2	0	28	0	0
April	9.5	N.	38	N.	0	7	2	7	10	9	3	9	13	0	5	9	16	10	9	8	6	1	1	0	0	12	0	0
May	10.4	N.	46	N.	2	14	2	2	7	3	5	13	16	0	7	14	10	14	10	0	0	0	0	0	0	0	9	0
June	7.3	W.	38	N.	0	13	8	8	7	3	3	12	6	0	13	13	4	12	9	0	0	1	0	0	2	0	12	0
July	6.4	W.	34	N.	0	14	3	4	6	4	5	21	5	0	13	13	5	15	12	0	0	1	0	0	4	0	12	0
August	6.2	W.	33	N.	0	15	4	3	7	2	4	18	8	1	20	7	4	7	5	0	0	0	0	0	9	0	11	0
September	7.5	W.	36	N.	0	13	4	1	10	7	2	19	4	0	18	8	4	3	1	0	0	0	0	0	5	0	3	0
October	8.3	W.	37	S.	0	10	1	3	5	2	5	24	11	1	13	13	5	3	2	2	1	0	0	0	1	9	1	0
November	8.4	NW.	48	NW.	1	14	3	0	3	2	3	12	21	2	10	7	13	9	7	6	4	0	1	3	0	23	1	0
December	6.6	W.	34	N.	0	12	2	8	4	4	0	21	10	1	11	10	10	5	2	8	5	0	0	14	0	26	0	0
Year	8.0	W.	48	SW.	7	168	40	47	83	39	38	189	121	5	138	127	100	95	67	50	33	3	3	54	21	157	49	0

READING, PA.

[H_b=325 ft.; h_t=81 ft.; h_r=73 ft.; h_a=98 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	7.3	NW.	31	N.	0	8	4	0	9	3	9	7	22	0	12	7	12	8	6	5	4	0	0	14	0	27	0	0
February	7.4	NW.	30	NW.	0	5	4	1	13	6	7	7	13	0	6	11	11	12	9	7	5	0	3	3	0	17	1	0
March	6.1	NW.	30	NW.	0	4	5	4	7	3	12	4	23	0	12	3	16	16	13	8	3	0	0	1	0	12	0	0
April	4.7	NW.	36	NW.	0	5	3	2	7	12	7	5	19	0	10	9	11	12	10	0	0	1	0	0	0	1	3	0
May	5.2	SE.	26	SW.	0	8	7	0	20	11	7	4	5	0	10	14	7	12	9	0	0	1	0	0	0	0	6	0
June	4.7	SE.	30	NW.	0	8	1	2	15	5	14	1	14	0	8	12	10	17	13	0	0	0	0	0	0	0	12	0
July	2.7	SE.	22	NW.	0	6	6	0	19	4	12	5	10	0	8	16	7	12	11	0	0	0	0	0	4	0	13	0
August	3.8	SW.	17	SW.	0	7	6	2	10	7	11	3	16	0	9	9	13	14	11	0	0	1	0	0	3	0	9	0
September	4.0	SE.	18	NW.	0	2	2	2	20	15	3	2	14	0	13	11	6	3	3	0	0	0	3	0	1	0	1	0
October	5.2	NW.	24	NW.	0	9	2	0	10	11	11	1	18	0	16	10	5	6	6	0	0	0	0	0	0	1	0	0
November	5.0	NW.	24	N.	0	9	0	0	8	8	11	3	20	1	7	13	10	5	3	4	1	0	2	0	0	5	0	0
December	5.6	NW.	29	E.	0	4	2	0	11	5	11	3	26	0	5	12	14	13	10	8	7	0	5	3	0	26	0	0
Year	5.1	NW.	36	NW.	0	75	42	13	149	90	115	45	200	1	116	127	122	130	104	32	20	3	13	21	8	89	45	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

RED BLUFF, CALIF.

[ϕ=40° 10′ N.; λ=122° 15′ W.]

Month.	Pressure.			Temperature.								Moisture.																
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.769	30.100	29.040	35.2	45.5	50.3	51.6	32.2	41.9	65	22	29	33	32	79	65	52	0.160	0.189	0.184	1.41	0.75	2.9	3.0	3.1	3.8
February	29.669	30.040	29.150	40.4	47.8	51.9	52.9	38.1	45.5	63	28	36	38	37	85	72	61	.221	.235	.229	4.25	1.03	5.0	5.6	5.4	6.1
March	29.708	30.060	29.150	42.4	53.6	57.8	58.8	40.3	49.6	72	30	36	39	37	79	61	51	.216	.244	.231	1.07	.23	4.1	4.9	5.2	4.8
April	29.685	30.100	29.408	46.4	64.4	70.3	70.9	44.8	57.8	86	32	35	38	33	68	42	27	.213	.240	.193	.13	.07	1.5	2.0	2.0	1.7
May	29.599	29.910	29.259	56.5	75.6	80.8	82.3	55.0	68.6	100	34	42	44	42	60	37	30	.271	.298	.271	.56	.23	1.8	1.9	2.4	2.3
June	29.537	29.786	29.342	63.3	83.2	89.6	91.2	62.1	76.6	110	54	51	50	45	66	34	24	.375	.361	.303	.01	.01	1.3	1.4	1.8	1.7
July	29.540	29.740	29.344	69.1	91.6	98.5	99.5	67.8	83.6	112	58	51	54	47	55	29	19	.386	.416	.329	.00	.00	.2	.8	.6	.7
August	29.527	29.680	29.320	64.3	85.0	91.5	92.2	61.8	77.0	104	54	48	49	45	57	30	21	.341	.352	.302	.30	.26	.8	.7	1.2	1.3
September	29.523	29.720	29.350	63.9	86.0	92.6	93.4	61.3	77.4	109	53	43	46	44	47	27	20	.279	.325	.301	.00	.00	.3	.2	.9	.5
October	29.622	29.820	29.360	52.6	66.5	69.9	71.4	50.3	60.8	84	40	46	48	48	82	55	50	.324	.348	.347	3.05	2.68	2.4	3.2	3.3	4.1
November	29.740	30.060	29.160	40.4	55.4	58.4	60.3	38.4	49.4	70	30	35	42	43	80	62	60	.203	.270	.291	3.54	1.50	2.0	2.4	2.4	2.2
December	29.759	30.060	29.190	39.4	45.9	48.8	50.3	37.1	43.7	66	28	36	40	41	87	81	77	.216	.250	.262	5.59	2.08	6.7	7.0	6.0	7.1
Year	29.640	30.100	29.040	51.2	66.7	71.7	72.9	49.1	61.0	112	22	41	43	41	70	50	41	.267	.294	.270	20.81	2.68	2.4	2.8	2.9	3.0

RENO, NEV.

[ϕ=39° 32′ N.; λ=119° 49′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	25.504	25.990	24.830	17.9	29.2	30.6	34.8	13.4	24.1	49	−1	15	21	19	87	70	60	0.087	0.113	0.102	0.64	0.24	4.0	4.8	4.4	4.4
February	25.400	25.810	24.970	25.7	35.2	34.7	38.9	21.0	30.0	52	−4	21	25	24	81	68	66	.116	.139	.132	4.06	1.55	6.2	6.1	8.0	6.8
March	25.440	25.780	24.806	30.3	43.9	45.4	49.8	26.8	38.3	67	7	22	25	21	71	49	39	.117	.132	.112	.75	.28	3.5	6.2	5.8	5.3
April	25.460	25.850	25.130	31.5	51.2	52.6	57.3	29.1	43.2	73	20	24	26	24	73	41	35	.127	.143	.127	.40	.12	2.7	3.7	3.8	3.2
May	25.475	25.720	24.990	41.6	65.3	66.5	70.4	39.7	55.0	84	27	30	28	26	62	28	24	.163	.157	.140	.10	.06	2.0	2.7	4.3	2.8
June	25.470	25.670	25.270	51.4	77.1	77.0	82.3	50.2	66.2	99	39	38	34	34	62	24	24	.230	.199	.198	.92	.89	2.1	2.6	3.0	2.5
July	25.548	25.680	25.354	57.4	85.4	85.2	90.5	56.1	73.3	100	44	40	38	37	53	20	21	.258	.233	.231	.33	.30	1.3	2.9	3.6	2.5
August	25.483	25.660	25.270	52.3	80.1	79.9	84.6	50.6	67.6	94	40	38	34	35	58	21	21	.231	.206	.210	.01	.01	1.4	2.5	2.3	2.0
September	25.510	25.730	25.290	50.1	78.1	79.9	83.3	47.5	65.4	93	35	32	33	32	52	20	18	.182	.187	.182	.00	.00	.6	.6	.8	.5
October	25.472	25.770	25.170	38.8	61.9	61.9	67.0	36.0	51.5	77	20	29	30	30	67	31	32	.161	.168	.174	.09	.07	2.0	2.4	4.6	2.9
November	25.535	25.800	24.960	27.2	44.4	43.3	49.7	23.9	36.8	62	8	23	25	24	82	46	47	.121	.132	.126	.97	.40	3.3	3.2	3.9	3.5
December	25.480	25.810	25.020	30.8	38.3	37.5	43.4	26.5	35.0	60	5	27	29	29	85	70	73	.147	.158	.159	3.03	1.20	5.8	7.2	6.8	6.7
Year	25.841	25.990	24.806	37.9	57.5	57.9	62.7	35.1	48.9	100	−4	28	29	28	69	41	38	.162	.164	.158	11.30	1.55	2.9	3.7	4.2	3.6

RICHMOND, VA.

[ϕ=37° 32′ N.; λ=77° 27′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	30.043	30.540	28.760	31.0	36.8	36.3	42.4	27.5	35.0	65	13	23	26	26	71	64	66	0.133	0.149	0.152	4.58	1.54	6.5	6.9	5.5	6.9
February	30.002	30.450	29.450	37.0	44.4	43.0	50.4	33.4	41.9	73	8	33	36	35	86	73	75	.203	.225	.221	3.81	1.05	8.3	7.1	5.1	7.1
March	29.969	30.510	29.230	43.3	53.0	50.4	58.6	40.1	49.4	80	27	36	41	39	77	66	67	.233	.269	.251	7.01	1.52	4.9	5.9	5.9	5.2
April	29.948	30.350	29.180	54.2	64.1	60.7	69.1	48.0	58.6	88	30	45	45	43	71	53	56	.315	.324	.306	2.01	.96	5.3	5.0	4.4	4.9
May	29.847	30.343	29.240	63.8	73.4	68.3	77.5	57.0	67.2	87	42	56	56	56	77	58	69	.462	.468	.471	3.27	.76	5.2	5.5	5.6	4.7
June	29.842	30.050	29.530	72.1	80.4	74.8	83.9	66.1	75.0	91	57	65	66	66	80	65	77	.654	.648	.657	6.42	1.28	5.5	5.4	6.9	5.4
July	29.894	30.080	29.630	73.9	82.2	75.6	84.9	68.4	76.6	94	60	69	69	69	85	66	81	.712	.723	.711	8.48	3.18	5.1	5.7	6.4	6.1
August	29.863	30.160	29.560	69.6	79.9	73.1	82.4	64.2	73.3	90	52	64	65	66	84	62	80	.613	.632	.651	7.78	3.45	5.3	4.8	5.3	4.4
September	29.972	30.280	29.700	65.6	77.2	70.4	80.2	61.1	70.6	91	48	61	60	62	87	56	76	.562	.540	.578	.66	.60	5.3	4.7	2.1	4.3
October	29.891	30.300	29.500	55.2	68.5	61.1	71.5	50.1	60.8	89	34	50	47	51	82	50	71	.386	.357	.402	3.68	2.39	3.7	3.3	3.6	3.4
November	29.980	30.350	29.430	42.6	55.8	49.7	59.6	38.5	49.0	73	25	36	34	36	79	45	61	.232	.214	.236	.86	.78	3.4	3.4	2.5	4.8
December	30.000	30.465	29.180	36.7	45.3	43.2	51.4	33.1	42.2	72	20	32	34	34	83	67	72	.196	.211	.206	3.14	.84	6.9	6.1	5.5	6.8
Year	29.938	30.540	28.760	53.8	63.4	58.9	67.7	49.0	58.3	94	8	48	48	49	80	60	71	.390	.397	.404	51.70	3.45	5.4	5.3	4.9	5.3

ROCHESTER, N. Y.

[ϕ=43° 09′ N.; λ=77° 42′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.584	30.160	28.900	20.1	24.2	23.8	29.6	15.5	22.6	51	−3	12	14	14	68	64	65	0.079	0.087	0.087	2.41	1.25	7.7	6.8	5.9	6.8
February	29.508	30.060	28.790	26.3	30.3	27.9	35.4	20.8	28.1	60	0	19	20	20	73	64	70	.111	.117	.113	2.63	.92	8.6	7.2	7.0	7.8
March	29.518	30.080	28.800	32.2	38.0	36.7	43.4	28.8	36.0	68	18	26	26	27	72	63	68	.144	.151	.153	3.11	1.00	6.7	7.4	5.5	7.0
April	29.483	29.936	28.640	43.2	49.6	47.4	55.6	38.1	46.8	75	26	33	33	34	67	55	61	.199	.207	.206	2.40	.82	6.6	6.4	4.4	5.8
May	29.434	29.876	28.730	59.0	67.1	63.5	71.1	50.8	61.0	87	37	45	44	46	62	48	56	.315	.309	.325	1.35	.54	4.4	5.3	4.5	4.7
June	29.409	29.670	28.900	64.2	70.8	67.8	75.5	58.0	66.8	92	47	55	56	56	72	61	67	.440	.459	.464	8.14	2.72	5.9	6.6	5.4	6.0
July	29.465	29.690	29.160	68.1	75.2	72.7	79.4	61.9	70.6	93	53	58	57	58	71	56	62	.486	.485	.499	2.17	.72	5.3	5.5	3.7	4.5
August	29.439	29.760	28.980	66.2	74.1	70.0	77.6	59.9	68.8	91	50	57	56	58	72	55	66	.470	.467	.492	2.53	1.31	5.1	5.1	4.8	5.2
September	29.552	29.879	29.200	61.1	70.4	65.0	73.8	51.8	64.3	92	40	53	53	55	76	56	71	.428	.431	.455	1.85	1.22	4.0	4.4	3.1	4.1
October	29.430	29.920	28.930	48.7	55.5	51.2	60.0	43.0	51.5	83	28	39	41	41	70	61	70	.259	.280	.279	2.30	1.25	5.6	5.7	4.7	5.9
November	29.470	29.942	28.910	38.7	44.3	42.8	48.0	35.8	41.9	64	21	31	32	33	74	64	68	.180	.189	.199	1.12	.28	8.4	8.6	8.5	8.4
December	29.524	29.980	29.020	27.4	30.6	29.3	35.6	22.9	29.2	62	5	20	21	21	72	66	70	.114	.120	.117	3.01	1.78	8.0	7.3	7.9	8.0
Year	29.485	30.160	28.640	46.4	52.5	49.8	57.1	40.8	49.0	93	−3	37	38	39	71	59	66	.269	.275	.282	33.02	2.72	6.4	6.4	5.4	6.2

Annual meteorological summary for the year ending December 31, 1922—Continued.

RED BLUFF, CALIF.

[H_b=332 ft.; h_t=50 ft.; h_r=40 ft.; h_a=56 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles	*	*Mi.*																									
January	5.5	NW.	40	NW.	1	11	2	1	13	8	0	5	21	1	16	10	5	7	5	1	1	0	2	0	0	15	0	0
February	7.6	SE.	33	SE.	0	3	0	0	21	8	2	3	18	1	10	3	15	15	13	0	0	0	0	0	0	8	0	0
March	6.7	SE.	28	SE.	0	2	1	1	27	9	0	4	16	2	12	10	9	12	8	0	0	0	0	0	0	1	0	0
April	8.0	NW.	28	NW.	0	10	1	0	13	1	1	2	30	2	25	5	0	2	2	0	0	0	0	0	0	1	0	0
May	6.8	NW.	28	NW.	0	8	0	0	16	4	1	4	28	1	25	3	3	5	3	0	0	0	0	0	10	0	0	0
June	5.2	SE.	20	S.	0	1	2	4	24	12	1	2	11	3	25	4	1	1	0	0	0	0	0	0	16	0	0	0
July	4.6	SE.	15	SE.	0	2	0	2	40	4	0	5	8	1	29	2	0	0	0	0	0	0	0	0	26	0	0	0
August	5.2	SE.	20	N.	0	3	0	3	34	5	3	3	9	2	28	3	0	2	2	0	0	0	0	0	22	0	0	0
September	4.5	SE.	21	N.	0	3	0	0	24	4	4	5	20	0	30	0	0	0	0	0	0	0	0	0	21	0	0	0
October	4.8	SE.	28	NW.	0	8	2	2	17	7	2	8	15	1	14	9	8	7	6	0	0	0	0	0	0	0	0	0
November	5.3	NW.	30	N.	0	14	1	1	12	4	4	7	16	1	23	3	4	4	4	0	0	0	1	0	0	1	0	0
December	4.2	NW.	33	SE.	0	4	4	3	10	7	0	4	29	1	5	10	16	19	15	1	1	0	4	0	0	7	0	0
Year	5.7	SE.	40	NW.	1	69	13	17	251	73	18	52	221	16	242	62	61	74	58	2	2	0	7	0	95	33	0	0

RENO, NEV.

[H_b=4,532 ft.; h_t=74 ft.; h_r=67 ft.; h_a=81 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	4.4	* W.	39	W.	0	8	3	1	13	7	0	18	3	3	15	8	8	9	5	10	8	0	3	7	0	30	0	0
February	6.7	W.	38	SW.	0	9	2	4	5	8	7	16	5	0	4	10	14	14	8	15	11	0	0	8	0	24	0	0
March	8.3	W.	49	W.	2	7	0	1	6	8	2	31	6	1	8	14	9	6	4	9	6	0	0	1	0	21	0	0
April	8.0	W.	47	W.	4	9	4	2	0	1	6	29	9	0	17	8	5	6	4	9	6	0	0	0	0	17	0	0
May	8.1	W.	37	W.	0	3	3	4	1	2	9	32	5	3	19	10	2	2	2	3	0	0	0	0	0	5	0	0
June	7.4	W.	42	W.	1	3	1	1	2	0	7	45	0	1	20	8	2	2	1	0	0	1	0	0	5	0	5	0
July	6.7	W.	42	SW.	1	3	1	1	1	3	9	41	2	1	19	10	2	2	1	0	0	0	0	0	18	0	7	0
August	6.8	W.	28	W.	0	2	2	0	3	2	6	46	0	1	23	6	2	1	0	0	0	0	0	0	5	0	2	0
September	6.3	W.	33	W.	0	4	2	5	2	3	1	43	0	0	28	2	0	0	0	0	0	0	0	0	4	0	0	0
October	5.9	W.	35	SW.	0	7	5	3	2	5	2	31	5	2	17	12	2	3	1	0	0	0	0	0	0	5	0	0
November	4.3	W.	32	W.	0	8	7	3	4	3	3	23	8	1	17	6	7	7	5	6	3	0	0	2	0	27	0	0
December	5.1	W.	56	SE.	2	6	5	4	12	3	4	21	5	2	5	10	16	14	11	9	8	0	2	3	0	24	0	0
Year	6.5	W.	56	SE.	10	69	35	29	51	45	62	376	48	15	192	104	69	66	42	61	42	1	5	21	32	153	14	0

RICHMOND, VA.

[H_b=144 ft.; h_t=11 ft.; h_r=3 ft.; h_a=52 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	9.7	* NE.	36	SW.	0	2	22	4	3	10	8	5	8	0	8	4	19	10	10	6	5	0	2	6	0	22	0	0
February	8.8	NE.	39	SW.	0	5	17	1	4	14	8	2	5	0	3	13	12	18	12	4	4	0	1	2	0	10	0	0
March	8.9	S.	46	SW.	2	8	13	4	6	18	4	3	6	0	13	4	14	13	12	1	1	1	1	0	0	4	3	1
April	9.6	S.	46	SW.	1	7	12	8	5	14	6	2	6	0	11	10	9	10	7	0	0	0	0	0	0	0	2	0
May	8.8	SW.	32	SW.	0	2	13	10	12	7	15	0	3	0	13	9	9	12	9	0	0	0	1	0	0	0	5	0
June	6.6	SW.	31	NW.	0	2	10	7	10	11	13	4	2	1	11	5	14	17	16	0	0	0	0	0	3	0	11	0
July	6.2	SW.	42	NW.	1	8	10	6	7	10	19	0	2	0	8	14	9	13	10	0	0	0	0	0	9	0	9	0
August	6.5	S.	33	NW.	0	6	15	3	7	15	10	3	3	0	13	12	6	14	11	0	0	0	1	0	1	0	8	0
September	5.6	NE.	18	NE.	0	8	14	10	11	3	6	3	4	1	13	12	5	2	2	0	0	0	3	0	1	0	2	0
October	6.8	NE.	34	SW.	0	4	15	0	11	11	13	4	3	1	18	5	8	8	7	0	0	0	2	0	0	0	0	0
November	7.3	SW.	30	SW.	0	8	6	2	6	9	12	9	8	0	11	11	8	3	2	0	0	0	1	0	0	8	0	0
December	7.2	NE.	27	NW.	0	8	14	6	5	11	10	2	6	0	7	7	17	16	13	3	1	0	4	1	0	15	0	0
Year	7.5	NE.	46	SW.	4	68	161	61	87	133	124	37	56	3	129	106	130	136	111	14	11	1	16	9	14	59	40	1

ROCHESTER, N. Y.

[H_b=523 ft.; h_t=86 ft.; h_r=77 ft.; h_a=102 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	10.3	W.	44	W.	2	3	4	4	7	9	13	17	5	0	6	9	16	13	8	22	10	0	0	20	0	31	0	0
February	10.5	W.	52	W.	1	2	3	3	6	5	13	13	10	1	2	9	17	17	12	19	14	0	0	12	0	27	1	0
March	8.6	NW.	33	NW.	0	3	5	8	5	6	11	12	11	1	5	8	18	15	12	12	10	0	1	5	0	20	0	0
April	10.3	W.	45	W.	2	2	6	4	4	5	12	14	13	0	9	9	12	13	12	4	1	0	0	0	0	8	1	2
May	7.0	SW.	34	W.	0	1	11	9	4	9	13	9	6	0	15	5	11	9	8	0	0	0	1	0	0	0	0	0
June	7.5	SW.	32	NW.	0	5	11	3	5	2	13	10	11	0	8	10	12	15	13	0	0	0	0	0	1	0	7	0
July	6.5	SW.	27	W.	0	3	8	4	3	4	16	10	14	0	13	13	5	9	6	0	0	0	0	0	3	0	6	1
August	6.1	SW.	35	W.	0	6	10	6	1	5	21	5	8	0	13	7	11	8	7	0	0	1	1	0	1	0	9	0
September	6.6	SW.	23	NW.	0	3	10	6	2	7	21	5	6	0	16	6	8	6	4	0	0	0	0	0	3	0	3	0
October	7.9	SW.	36	W.	0	6	4	5	3	4	20	11	9	0	10	6	15	11	8	3	1	0	0	0	0	6	0	0
November	9.0	SW.	36	SW.	0	0	0	1	3	5	19	20	12	0	2	5	23	17	8	9	5	0	0	1	0	12	0	0
December	10.2	W.	42	W.	3	1	3	3	4	12	18	16	5	0	4	5	22	13	7	18	10	0	0	14	0	27	0	0
Year	8.4	SW.	52	W.	8	35	75	56	47	73	190	142	110	2	103	92	170	146	105	87	51	1	3	52	8	131	27	3

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1922—Continued.

ROSEBURG, OREG.

[ϕ=43° 13′ N.; λ=123° 20′ W.]

Month.	Pressure.			Temperature.														Moisture.											
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.625	30.050	28.984	33.5	39.6	40.9	44.1	30.2	37.2	56	14	31	33	34	90	77	76	0.175	0.190	0.196	3.68	1.01	6.3	5.5	5.5	5.7
February	29.467	29.940	28.860	36.1	43.2	46.6	48.6	33.8	41.2	62	26	34	35	35	92	74	66	.197	.207	.204	3.70	.74	5.8	6.6	7.2	7.0
March	29.511	29.964	28.998	38.9	49.2	50.8	54.0	36.5	45.2	67	27	36	36	36	88	62	59	.211	.215	.212	4.09	1.06	6.6	6.7	7.3	6.8
April	29.649	30.020	29.210	39.2	53.1	56.6	59.3	37.9	48.6	76	32	36	38	35	87	57	47	.211	.228	.201	2.68	.84	6.2	4.7	4.0	4.7
May	29.547	29.900	29.194	45.6	64.1	68.4	70.7	44.7	57.7	95	33	42	44	42	87	51	42	.270	.296	.266	1.03	.52	5.3	4.4	3.5	3.8
June	29.474	29.750	29.284	52.3	73.9	80.1	82.1	51.9	67.0	97	45	48	51	50	85	46	38	.332	.376	.366	1.01	.87	4.0	1.8	2.8	2.4
July	29.514	29.709	29.297	54.0	78.2	87.6	88.6	53.5	71.0	105	45	48	50	46	81	39	25	.338	.367	.317	.00	.00	1.7	0.6	0.3	0.9
August	29.471	29.650	29.271	54.3	73.1	78.0	80.0	53.1	66.6	93	46	49	51	50	85	48	40	.349	.379	.367	.32	.25	4.3	3.7	2.9	3.5
September	29.474	29.690	29.230	50.9	71.9	78.8	81.1	49.1	65.1	101	43	47	49	43	87	47	35	.328	.351	.318	1.56	.97	2.3	1.8	2.0	1.9
October	29.483	29.850	29.110	49.8	59.1	61.6	63.5	47.0	55.2	74	38	48	48	43	94	68	65	.336	.341	.351	3.50	.68	7.1	5.9	6.2	6.2
November	29.601	29.970	29.050	40.7	46.4	47.3	50.1	38.5	44.3	59	30	40	41	42	96	81	82	.246	.258	.266	2.56	.72	6.3	6.3	5.1	6.7
December	29.506	29.986	28.860	39.9	44.0	44.6	47.3	37.0	42.2	61	26	37	38	38	90	79	80	.223	.230	.237	5.86	1.24	6.9	7.6	8.2	7.9
Year	29.527	30.050	28.860	44.6	58.0	61.8	64.1	42.8	53.4	105	14	41	43	42	88	61	55	.268	.286	.275	30.02	1.24	5.2	4.6	4.6	4.8

ROSWELL, N. MEX.

[ϕ=33° 24′ N.; λ=104° 27′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	26.379	26.790	25.950	26.2	43.3	46.6	52.5	21.7	37.1	68	6	16	16	16	64	36	32	0.092	0.094	0.095	0.04	0.03	4.0	4.1	2.6	4.2
February	26.363	26.810	25.980	31.9	50.3	53.9	59.6	26.9	43.2	80	5	15	14	10	49	25	20	.095	.082	.072	.16	.16	4.1	3.9	4.1	4.0
March	26.298	26.710	25.890	35.5	57.8	62.0	65.9	32.7	49.3	82	2	19	20	14	54	26	19	.109	.117	.091	.72	.49	3.3	3.5	4.7	4.2
April	26.268	26.750	25.870	47.2	65.2	67.7	71.3	45.4	58.4	84	30	28	28	23	55	32	28	.194	.191	.168	1.37	.48	4.8	4.0	4.2	4.5
May	26.293	26.550	25.970	56.7	76.8	78.7	82.4	54.2	68.3	95	45	38	33	30	55	26	24	.249	.207	.194	1.50	.58	3.5	3.3	3.5	3.6
June	26.353	26.600	26.109	63.7	81.3	84.7	87.6	61.9	74.8	97	50	56	52	53	75	39	36	.444	.390	.405	1.69	1.01	3.2	2.3	4.4	4.1
July	26.394	26.630	26.100	67.5	86.9	89.6	93.0	66.1	79.6	102	58	52	49	47	60	28	26	.395	.347	.329	.17	.13	3.4	1.9	3.4	3.0
August	26.382	26.550	26.236	66.4	88.5	90.8	93.8	65.5	79.6	100	61	52	50	47	62	28	23	.404	.371	.331	.15	.06	2.7	1.4	3.3	2.6
September	26.411	26.650	26.204	60.1	81.1	81.9	86.3	59.1	72.7	99	48	49	48	45	69	33	30	.356	.342	.312	.13	.09	2.4	1.9	3.7	2.7
October	26.372	26.720	25.930	46.4	68.8	69.3	75.5	43.7	59.6	91	30	33	33	32	61	30	30	.102	.194	.186	.10	.04	2.4	2.9	2.3	2.7
November	26.424	26.720	26.020	37.3	53.3	55.9	60.1	33.9	47.0	78	17	28	30	27	71	47	40	.172	.178	.156	.53	.21	3.9	3.2	3.2	3.6
December	26.385	26.700	26.070	34.0	50.8	52.8	59.4	29.4	44.4	72	15	22	21	22	62	32	30	.120	.115	.121	.01	.01	2.1	3.7	3.0	3.5
Year	26.360	26.810	25.870	47.7	67.0	69.3	74.0	45.0	59.5	102	2	34	33	30	61	32	28	.235	.219	.205	6.57	1.01	3.3	3.0	3.5	3.6

ROYAL CENTER, IND.

[ϕ=40° 53′ N.; λ=86° 29′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
Januray	29.379	29.960	28.740	17.1	27.0	....	31.5	11.7	21.6	57	−15	12	16	....	78	61	....	0.078	0.098	....	1.81	1.21	6.2	5.4	....	5.4
February	29.280	29.860	28.763	27.1	33.3	....	38.1	22.6	30.4	68	3	21	23	....	75	64	....	.122	.132	....	.86	.28	7.6	7.5	....	7.2
March	29.246	29.750	28.510	34.7	43.4	....	46.9	31.5	39.2	70	18	31	33	....	84	69	....	.177	.199	....	5.91	1.31	6.9	7.3	....	7.2
April	29.245	29.606	28.379	45.9	55.8	....	60.3	40.6	50.4	76	28	39	42	....	77	64	....	.253	.293	....	4.71	2.19	5.8	6.7	....	6.2
May	29.161	29.547	28.550	60.7	72.6	....	74.8	53.6	64.2	86	46	54	54	....	80	55	....	.427	.442	....	3.12	1.35	5.9	6.9	....	6.3
June	29.197	29.440	28.910	67.4	79.7	....	82.7	57.8	70.2	97	47	58	57	....	73	48	....	.500	.485	....	.87	.44	4.1	5.4	....	5.2
July	29.228	29.540	28.946	69.0	79.6	....	82.3	60.6	71.4	92	47	61	60	....	77	52	....	.548	.528	....	3.24	2.03	5.7	5.9	....	5.7
August	29.213	29.444	28.780	66.4	80.8	....	83.5	59.1	71.3	93	49	60	58	....	81	48	....	.529	.499	....	1.70	.59	3.7	5.0	....	5.0
September	29.317	29.617	29.010	61.2	78.2	....	81.0	54.7	67.8	96	39	55	53	....	80	44	....	.453	.434	....	1.12	.74	3.3	3.4	....	3.3
October	29.217	29.574	28.730	48.0	64.6	....	67.5	44.9	56.2	89	30	42	44	....	82	51	....	.289	.307	....	4.83	2.23	4.0	4.5	....	4.4
November	29.298	29.587	28.778	39.1	46.5	....	49.7	35.5	42.6	68	21	36	37	....	88	71	....	.222	.236	....	2.15	.94	7.2	7.8	....	7.6
December	29.289	29.850	28.830	24.3	31.8	....	37.4	19.0	28.2	61	−12	22	25	....	92	76	....	.132	.144	....	2.40	.83	6.6	6.9	....	7.0
Year	29.256	29.960	28.379	46.7	57.8	....	61.3	41.0	51.1	97	−15	41	42	....	81	59	....	.311	.316	....	32.72	2.23	5.6	6.1	....	5.9

SACRAMENTO, CALIF.

[ϕ=38° 35′ N.; λ=121° 30′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	30.064	30.400	29.390	36.8	41.1	46.7	47.2	33.9	40.6	58	26	31	36	39	80	83	77	0.185	0.219	0.242	2.16	.96	2.5	3.4	2.9	4.4
February	29.991	30.330	29.581	43.2	48.2	51.9	52.9	41.3	47.1	60	31	40	43	44	88	84	75	.252	.284	.289	4.18	1.46	4.6	6.4	6.0	5.7
March	30.029	30.350	29.450	44.7	53.0	57.6	58.6	42.9	50.8	67	34	36	44	42	73	72	58	.220	.289	.273	1.29	.55	2.8	5.0	4.8	4.4
April	29.973	30.370	29.720	46.2	60.2	67.0	68.0	44.7	56.4	82	38	34	42	40	63	52	41	.198	.275	.262	.40	.36	.7	1.1	1.3	1.5
May	29.883	30.200	29.630	54.0	71.8	77.6	79.1	52.7	65.9	93	42	42	44	45	65	38	34	.272	.296	.303	.43	.24	1.2	1.7	2.0	1.8
June	29.835	30.090	29.671	57.5	77.1	83.9	84.9	57.2	71.0	105	50	48	52	50	71	43	35	.334	.394	.379	T.	T.	1.8	1.4	1.4	2.0
July	29.841	30.010	29.663	60.3	81.5	90.1	92.2	59.6	75.9	106	52	51	56	59	73	44	37	.380	.466	.504	T.	T.	.7	.5	.9	.8
August	29.824	29.990	29.643	58.5	78.4	86.8	88.2	57.4	72.8	102	51	47	51	52	66	40	32	.322	.376	.395	T.	T.	.7	.7	.7	1.2
September	29.805	30.020	29.630	61.5	81.4	90.7	91.9	59.4	75.0	104	52	49	50	43	66	36	20	.355	.373	.286	.00	.00	.0	.1	.4	.3
October	29.901	30.100	29.650	53.1	65.9	71.6	72.6	51.2	61.9	85	42	46	47	45	77	53	41	.311	.329	.307	.72	.29	1.9	3.3	2.5	3.3
November	30.033	30.340	29.523	43.6	52.0	57.0	58.2	41.4	49.8	63	36	40	41	42	86	68	60	.245	.259	.274	3.03	1.88	2.2	2.5	1.9	3.6
December	30.064	30.370	29.670	44.8	48.5	50.8	52.0	42.9	47.4	59	30	42	44	44	90	85	81	.272	.288	.296	6.12	1.36	6.2	5.9	6.4	7.2
Year	29.937	30.400	29.390	50.4	63.3	69.3	70.5	48.7	59.6	106	26	42	46	45	75	58	49	.279	.321	.318	18.33	1.88	2.2	2.7	2.6	3.0

Annual meteorological summary for the year ending December 31, 1922—Continued.

ROSEBURG, OREG.

[H_b=510 ft.; h_t=9 ft.; h_r=4 ft.; h_a=57 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles		*Mi.*																									
January	2.5	S.	14	W.	0	9	4	3	10	14	7	3	12	0	5	18	8	16	16	5	4	0	7	1	0	15	0	0
February	2.7	S.	20	SW.	0	7	3	4	8	12	6	3	12	1	3	12	13	15	14	3	2	0	4	0	0	12	0	0
March	4.1	S.	27	SW.	0	10	4	1	5	12	16	3	10	1	2	16	13	18	17	2	1	0	3	0	0	6	0	0
April	3.9	N.	20	SW.	0	18	5	2	2	8	6	5	14	0	9	15	6	11	10	1	0	2	0	0	0	1	0	0
May	3.4	N.	18	N.	0	18	5	1	5	3	6	3	17	4	15	11	5	12	6	2	2	2	0	0	3	0	0	0
June	3.4	N.	15	SW.	0	32	7	1	0	1	1	1	14	3	21	8	1	2	2	0	0	0	0	0	6	0	1	0
July	3.6	N.	15	N.	0	37	7	1	0	0	0	0	16	1	29	2	0	0	0	0	0	0	0	0	13	0	0	0
August	3.1	N.	14	NW.	0	22	6	2	1	5	0	5	17	4	16	12	3	5	2	0	0	0	0	0	2	0	0	0
September	2.6	N.	16	SW.	0	23	6	6	2	4	2	5	10	2	22	6	2	6	5	0	0	0	0	0	6	0	0	0
October	2.4	N.	18	S.	0	16	5	5	3	8	5	4	15	1	5	16	10	15	13	0	0	0	5	0	0	0	1	0
November	2.0	NE.	15	W.	0	16	13	3	1	5	3	3	15	1	2	15	13	14	11	0	0	0	12	0	0	1	0	0
December	3.1	S.	23	SW.	0	11	3	4	8	15	11	2	8	0	1	11	19	21	16	0	0	0	7	0	0	8	0	0
Year	3.1	N.	27	SW.	0	219	68	33	45	87	63	37	160	18	130	142	93	135	112	13	9	4	38	1	30	43	2	0

ROSWELL, N. MEX.

[H_b=3,566 ft.; h_t=75 ft.; h_r=69 ft.; h_a=85 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	8.1	S.	38	SW.	0	13	6	3	3	19	7	4	7	0	16	7	8	2	0	2	0	0	2	1	0	28	0	0
February	9.1	S.	42	NW.	1	5	9	7	4	14	1	11	5	0	13	10	5	2	2	2	2	0	0	1	0	21	0	0
March	10.3	S.	52	NW.	5	8	7	5	7	17	6	7	5	0	14	12	5	3	2	3	2	0	0	1	0	11	0	0
April	11.1	S.	42	W.	3	6	7	4	6	14	11	6	5	1	14	8	8	6	5	0	0	2	0	0	0	1	6	0
May	9.0	E.	41	SW.	1	5	7	11	5	8	8	12	5	1	16	9	6	7	4	0	0	1	0	0	6	0	10	0
June	8.3	S.	42	NE.	1	4	4	6	13	23	1	4	3	2	13	12	5	6	5	0	0	0	0	0	14	0	7	0
July	8.2	SE.	36	NW.	0	3	6	2	20	19	5	5	2	0	18	13	0	3	1	0	0	0	0	0	23	0	4	0
August	8.8	S.	36	NE.	0	3	3	9	11	18	7	7	2	2	20	11	0	4	1	0	0	0	0	0	26	0	8	0
September	7.0	S.	36	W.	0	6	2	6	12	20	5	4	2	3	20	7	3	3	2	0	0	0	0	0	10	0	5	0
October	7.2	S.	38	SW.	0	10	3	6	7	20	5	2	5	4	19	9	3	4	1	0	0	0	1	0	2	1	1	0
November	7.4	S.	35	W.	0	15	4	6	2	21	3	5	4	0	16	7	7	6	6	0	0	0	0	0	0	13	0	0
December	6.6	NW.	32	NW.	0	7	11	3	4	14	3	8	12	0	18	6	7	1	0	0	0	0	0	0	0	21	0	0
Year	8.3	S.	52	NW.	11	85	69	68	94	207	62	75	57	13	197	111	57	47	29	7	4	3	3	3	81	96	41	0

ROYAL CENTER, IND.

[H_b=736 ft.; h_t=11 ft.; h_r=3 ft.; h_a=55 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	10.8	W.	40	W.	1	1	4	5	2	4	4	7	4	0	12	7	12	5	4	12	4	0	1	18	0	30	1	1
February	12.9	W.	45	W.	2	3	1	3	3	3	6	3	6	0	4	9	15	7	6	11	3	0	1	9	0	24	1	0
March	13.1	E.	38	E.	0	4	6	6	2	5	2	2	4	0	7	4	20	17	16	7	5	0	0	2	0	16	2	0
April	11.8	SE.	50	W.	3	1	7	1	7	5	3	3	3	0	10	4	16	15	10	1	1	0	1	0	0	5	8	0
May	9.0	E.	30	W.	0	1	3	4	9	8	1	5	0	0	5	9	17	15	10	0	0	0	0	0	0	0	11	0
June	8.4	SW.	32	W.	0	2	5	2	5	5	6	3	2	0	9	15	6	5	3	0	0	0	1	0	3	0	6	0
July	7.9	N.	60	W.	1	4	4	2	5	7	4	1	2	2	9	11	11	9	7	0	0	0	0	0	2	0	9	0
August	6.6	SE.	41	NW.	1	4	2	2	7	6	4	2	3	1	9	20	2	10	7	0	0	0	0	0	5	0	7	0
September	7.4	SW.	30	NW.	0	3	6	4	5	8	3	1	0	0	16	9	5	5	4	0	0	0	1	0	8	0	2	0
October	8.5	S.	29	NW.	0	0	5	3	7	7	3	5	1	0	13	9	9	7	7	0	0	0	1	0	0	3	2	0
November	11.1	W.	34	SW.	0	2	1	2	3	6	8	7	1	0	4	6	20	12	10	6	1	0	0	1	0	12	2	0
December	11.1	W.	32	W.	0	2	2	2	5	5	5	9	1	0	6	6	19	8	8	4	3	0	1	12	0	29	1	0
Year	9.9	S.	60	W.	8	27	46	36	60	69	49	48	27	3	104	109	152	115	92	41	17	0	7	42	18	119	52	1

SACRAMENTO, CALIF.

[H_b=69 ft.; h_t=106 ft.; h_r=100 ft.; h_a=117 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	6.6	SE.	48	NW.	1	7	5	6	20	9	2	1	9	3	13	10	8	7	6	2	1	0	8	0	0	14	0	0
February	9.4	SE.	42	SE.	1	8	1	4	20	14	2	0	5	2	10	4	14	14	9	0	0	2	0	0	0	1	1	0
March	8.7	S.	32	SE.	0	9	1	2	16	20	7	1	6	0	13	11	7	14	9	0	0	0	0	0	0	0	0	0
April	9.4	NW.	31	NW.	0	5	2	2	13	10	6	2	20	0	26	3	1	2	2	0	0	1	1	0	0	0	1	0
May	8.5	S.	28	NW.	0	5	1	0	13	17	5	5	15	1	25	3	3	5	3	0	0	0	0	0	5	0	0	0
June	8.9	S.	24	S.	0	0	1	0	22	24	8	2	2	1	23	6	1	0	0	0	0	0	0	0	10	0	0	0
July	8.9	S.	20	S.	0	0	0	0	16	41	2	2	1	0	30	1	0	0	0	0	0	0	0	0	20	0	0	0
August	8.3	S.	24	S.	0	2	0	1	22	29	1	1	6	0	27	4	0	0	0	0	0	0	0	0	11	0	0	0
September	6.1	SE.	20	SW.	0	3	2	1	24	13	7	4	6	0	29	1	0	0	0	0	0	0	0	0	17	0	0	0
October	6.3	S.	27	NW.	0	6	0	4	14	6	10	2	16	4	18	7	6	7	6	0	0	0	0	0	0	0	3	0
November	5.5	SE.	26	S.	0	10	2	8	13	5	0	0	14	8	15	9	6	5	4	0	0	0	8	0	0	0	1	0
December	6.5	SE.	44	SE.	1	12	0	6	21	4	1	4	12	2	5	9	17	19	16	0	0	0	4	0	0	1	0	0
Year	7.8	SE.	48	NW.	3	67	15	34	214	192	51	24	112	21	234	68	63	73	55	2	1	3	21	0	63	18	6	0

Annual meteorological summary for the year ending December 31, 1923—Continued.

SAGINAW, MICH.

[ϕ=43° 26′ N.; λ=83° 57′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.455	30.050	28.720	17.3	24.8	23.3	30.0	13.5	21.8	46	−5	14	17	17	86	69	76	0.085	0.096	0.101	0.92	0.44	7.0	5.6	4.4	5.9
February	29.369	29.990	28.590	22.2	27.8	25.6	31.5	17.2	24.4	45	−2	18	20	20	82	72	78	.102	.114	.113	1.85	1.13	7.2	8.3	5.9	7.4
March	29.378	29.940	28.480	29.9	37.6	36.3	42.5	26.5	34.5	70	12	25	26	27	80	64	70	.135	.147	.155	2.48	.68	6.3	5.3	5.9	5.5
April	29.339	29.760	28.340	42.1	50.7	48.8	55.7	35.7	45.7	74	26	36	35	35	78	56	62	.225	.220	.222	2.06	1.22	6.0	5.6	5.0	5.9
May	29.279	29.695	28.452	58.4	68.7	65.2	72.9	52.2	62.6	88	42	48	49	50	71	52	60	.351	.360	.371	1.56	.58	5.0	5.7	5.1	5.1
June	29.295	29.590	28.810	62.9	72.8	71.4	77.9	56.0	67.0	90	44	54	55	56	75	56	59	.437	.428	.456	4.15	1.71	5.5	5.4	4.6	5.2
July	29.325	29.650	28.930	65.8	75.8	73.4	80.2	58.5	69.4	86	45	57	55	55	74	51	54	.476	.454	.442	3.21	1.44	5.2	5.5	3.6	5.2
August	29.317	29.610	28.840	63.2	75.4	71.2	79.5	57.5	68.5	94	47	56	54	56	78	50	61	.459	.437	.468	1.79	.72	4.3	4.4	4.0	4.3
September	29.425	29.756	29.160	56.8	69.0	65.8	73.7	53.2	63.4	94	39	53	53	56	86	59	70	.413	.426	.472	4.77	1.68	3.8	5.0	4.1	4.3
October	29.304	29.700	28.840	45.1	56.3	50.7	60.3	41.8	51.0	86	26	42	45	43	88	69	76	.280	.322	.295	1.70	.86	6.2	5.1	3.9	5.3
November	29.352	29.822	28.819	37.6	43.5	41.0	46.4	34.4	40.4	61	17	35	35	35	89	73	78	.211	.216	.208	1.65	.53	7.8	8.8	8.5	8.5
December	29.372	29.870	28.820	24.1	28.3	25.9	32.2	18.9	25.6	57	−2	22	21	20	89	74	77	.127	.121	.114	.80	.27	7.5	7.8	7.2	7.8
Year	29.351	30.050	28.340	43.8	52.6	49.9	56.9	38.8	47.9	94	−5	38	39	39	81	62	68	.275	.278	.285	26.94	1.71	6.0	6.0	5.2	5.9

ST. JOSEPH, MO.

[ϕ=39° 49′ N.; λ=94° 51′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.102	29.670	28.432	22.1	31.6	29.7	36.9	18.8	27.8	56	1	17	18	19	81	57	64	0.098	0.100	0.106	0.55	0.29	3.7	4.5	4.1	4.3
February	29.045	29.680	28.449	25.3	35.3	34.6	42.1	20.3	31.2	74	0	19	19	18	76	51	52	.115	.118	.110	1.58	1.39	4.2	2.6	4.0	3.6
March	28.946	29.530	28.360	36.8	45.6	46.8	52.7	34.5	43.6	72	8	32	33	36	82	64	67	.191	.200	.222	4.08	1.01	5.4	6.1	5.1	5.7
April	28.910	29.340	27.930	47.8	59.5	60.0	64.8	45.5	55.2	83	32	42	44	43	80	58	56	.277	.298	.294	2.54	.79	5.6	5.1	4.6	5.2
May	28.864	29.180	28.460	59.3	70.8	70.6	75.3	56.8	66.0	85	47	53	52	52	80	56	56	.414	.417	.416	6.56	1.94	5.0	5.4	4.6	5.0
June	28.934	29.190	28.610	68.9	82.6	82.8	86.7	65.7	76.2	97	51	62	61	61	78	48	48	.552	.540	.537	1.75	1.01	3.1	2.6	2.0	2.6
July	28.963	29.232	28.592	68.9	82.3	81.4	86.0	66.2	76.1	94	53	63	63	64	82	53	58	.586	.583	.618	4.16	2.11	4.9	2.8	3.6	3.8
August	28.938	29.100	28.680	69.1	84.0	82.9	88.7	67.1	77.9	102	55	63	63	64	82	50	54	.584	.579	.601	1.53	.99	3.5	3.2	1.7	3.1
September	29.018	29.320	28.690	62.7	78.3	73.9	82.3	60.8	71.6	104	45	55	55	56	78	48	57	.458	.450	.472	3.09	1.06	3.5	2.5	1.8	3.0
October	28.957	29.340	28.590	49.9	67.4	61.8	71.1	47.6	59.4	90	30	42	44	44	77	46	56	.286	.304	.308	2.72	.87	2.3	2.4	2.3	2.7
November	29.028	29.360	28.480	41.4	50.6	48.1	54.5	38.1	46.3	74	24	35	35	36	79	58	63	.217	.217	.218	4.99	2.96	4.0	3.5	3.7	3.8
December	29.024	29.570	28.560	26.5	36.3	33.6	41.0	21.5	31.2	63	1	21	21	21	80	54	60	.123	.121	.117	.16	.14	3.5	3.8	3.4	4.0
Year	28.977	29.680	27.930	48.2	60.4	58.8	65.2	45.2	55.2	104	0	42	42	43	80	54	58	.325	.327	.335	33.71	2.96	4.1	3.7	3.4	3.9

ST. LOUIS, MO.

[ϕ=38° 38′ N.; λ=90° 12′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.580	30.110	28.970	25.8	32.9	32.2	38.4	22.0	30.2	61	3	18	21	21	72	60	65	0.109	0.121	0.120	0.74	0.30	5.6	4.8	3.5	5.2
February	29.506	30.040	29.000	31.7	39.5	38.9	44.6	28.1	36.4	74	12	24	26	25	73	57	58	.142	.156	.152	1.52	.55	5.0	6.2	4.4	5.9
March	29.410	29.820	28.790	41.7	50.3	47.9	54.2	38.2	46.2	76	21	36	36	37	79	62	68	.222	.231	.234	4.84	1.77	6.8	6.9	6.3	6.7
April	29.392	29.850	28.610	52.6	62.8	60.9	67.7	48.7	58.2	82	40	46	50	50	79	65	70	.329	.385	.382	7.49	2.45	4.6	5.4	5.4	3.2
May	29.320	29.650	28.860	64.3	74.4	72.4	77.7	61.1	69.4	88	54	56	58	58	75	58	63	.459	.497	.500	1.26	.38	4.0	5.9	4.6	5.3
June	29.369	29.590	29.140	72.4	83.7	82.6	87.3	69.0	78.2	96	57	62	62	64	71	50	54	.573	.577	.599	.80	.23	4.0	5.5	4.2	5.0
July	29.407	29.650	29.150	73.3	82.9	83.5	87.6	69.9	78.8	96	60	62	63	63	70	52	53	.578	.581	.602	2.42	1.13	4.9	5.3	3.7	5.0
August	29.386	29.590	29.070	72.6	84.0	82.3	88.2	70.0	79.1	100	59	62	60	62	69	47	52	.559	.541	.562	1.79	.82	4.0	4.3	3.2	4.0
September	29.468	29.730	29.230	65.6	79.8	78.0	83.7	63.8	73.8	99	50	57	58	57	75	50	51	.487	.510	.490	2.49	2.02	2.2	2.7	2.0	2.4
October	29.405	29.750	29.050	54.8	68.5	65.6	71.6	52.9	62.2	90	38	44	45	45	68	46	50	.302	.322	.317	1.74	1.03	3.7	4.3	3.5	4.2
November	29.511	29.820	28.890	43.7	52.3	50.7	56.0	41.6	48.8	73	25	36	37	38	76	58	62	.232	.241	.247	2.36	.64	4.5	4.8	3.9	4.8
December	29.486	30.060	29.010	32.4	39.4	39.2	45.2	28.2	36.7	67	5	26	28	30	76	63	68	.156	.170	.178	4.98	3.04	5.3	5.0	4.0	5.5
Year	29.437	30.110	28.610	52.6	62.5	61.2	66.8	49.5	58.2	100	3	44	45	46	74	56	60	.346	.361	.365	32.34	3.04	4.6	5.1	4.1	4.8

ST. PAUL, MINN.

[ϕ=44° 58′ N.; λ=93° 03′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.231	29.950	28.480	8.5	16.5	....	21.1	4.5	12.8	40	−20	3	9	....	78	69	....	0.053	0.069	.....	0.90	0.36	5.3	6.4	....	5.2
February	29.152	29.930	28.180	7.4	14.4	....	20.6	1.4	11.0	39	−14	3	6	....	81	67	....	.057	.062	.....	3.69	1.25	4.3	6.2	....	4.6
March	29.130	29.800	28.320	27.1	35.0	....	39.8	24.8	32.3	53	−2	22	24	....	80	63	....	.122	.128	.....	1.41	.65	5.2	6.4	....	5.4
April	29.083	29.561	28.280	38.6	48.6	....	54.3	36.0	45.2	67	27	32	34	....	79	60	....	.184	.200	.....	1.55	.57	6.5	8.0	....	6.7
May	29.016	29.436	28.480	56.8	66.4	....	71.5	53.5	62.5	85	42	49	50	....	76	59	....	.356	.372	.....	2.48	.66	5.5	6.6	....	6.1
June	29.052	29.450	28.690	62.4	73.5	....	78.2	58.4	68.3	97	49	54	57	....	76	58	....	.430	.474	.....	4.61	1.16	4.5	5.4	....	4.7
July	29.078	29.380	28.620	62.5	73.9	....	78.5	59.2	68.8	91	51	56	57	....	81	56	....	.464	.467	.....	2.32	1.22	5.0	6.3	....	5.2
August	29.066	29.270	28.770	64.2	78.1	....	82.5	61.6	72.0	94	51	58	56	....	80	50	....	.491	.473	.....	1.31	.55	4.6	4.3	....	4.4
September	29.150	29.660	28.740	56.6	70.3	....	75.3	54.6	65.0	99	41	51	49	....	82	49	....	.391	.372	.....	1.82	.78	3.9	4.4	....	4.2
October	29.052	29.410	28.600	45.0	57.3	....	61.9	42.7	52.3	87	27	38	38	....	76	51	....	.239	.243	.....	1.08	.63	4.3	5.3	....	4.8
November	29.088	29.550	28.280	36.4	40.0	....	44.3	33.4	38.8	62	17	31	32	....	82	72	....	.185	.189	.....	3.70	.91	7.9	8.8	....	8.5
December	29.133	29.670	28.610	14.2	20.9	....	26.0	9.6	17.8	50	−14	9	10	....	77	61	....	.073	.078	.....	.18	.15	4.7	5.7	....	6.0
Year	29.103	29.950	28.180	40.0	49.6	....	54.5	36.6	45.6	99	−20	34	35	....	79	60	....	.254	.261	.....	25.05	1.25	5.1	6.2	....	5.5

Annual meteorological summary for the year ending December 31, 1922—Continued.

SAGINAW, MICH.

[H_b=641 ft.; h_t=69 ft.; h_r=62 ft.; h_a=77 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	9.4	SW.	35	SW.	0	3	12	3	3	8	13	12	8	0	7	10	14	9	5	16	9	0	2	18	0	31	0	0
February	7.2	NW.	23	W.	0	1	5	1	9	3	11	9	17	0	2	9	17	12	9	11	7	1	2	14	0	28	2	0
March	10.1	NE.	28	SE.	0	3	14	7	9	3	8	2	16	0	10	9	12	12	7	6	4	0	1	5	0	26	0	0
April	9.6	NW.	38	SW.	0	5	11	6	13	3	6	9	6	1	8	10	12	9	6	2	2	0	1	0	0	10	2	0
May	7.1	NE.	30	SW.	0	1	18	9	11	8	9	0	6	0	11	9	11	10	8	0	0	0	0	0	0	0	1	0
June	6.7	SW.	31	NW.	0	9	9	9	6	6	7	7	7	0	11	12	7	8	7	0	0	0	0	0	1	0	7	0
July	7.1	NW.	34	SW.	0	7	10	3	8	9	10	3	11	1	10	10	11	9	8	0	0	0	0	0	0	0	3	0
August	5.6	SE.	26	SW.	0	7	12	5	8	7	9	5	9	0	12	14	5	10	7	0	0	1	0	0	3	0	6	0
September	6.0	SW.	26	N.	0	9	8	6	5	9	13	3	6	1	15	7	8	11	8	0	0	0	2	0	2	0	4	0
October	8.2	NE.	27	S.	0	7	13	2	2	11	11	2	14	0	11	9	11	9	7	2	0	1	0	0	0	6	0	0
November	9.6	SW.	32	SW.	0	3	1	2	7	7	22	3	15	0	2	6	22	13	9	7	4	0	0	4	0	13	0	0
December	10.2	SW.	32	SW.	0	3	5	3	11	7	15	8	10	0	4	7	20	11	5	15	6	0	0	14	0	31	0	0
Year	8.1	SW.	38	SW.	0	58	118	56	92	81	134	63	125	3	103	112	150	123	86	59	32	3	8	55	6	145	25	0

ST. JOSEPH, MO.

[H_b=967 ft.; h_t=11 ft.; h_r=3 ft.; h_a=49 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	8.9	SE.	36	NW.	0	3	8	5	15	10	8	2	11	0	15	8	8	5	4	8	3	0	0	7	0	30	1	0
February	11.1	NW.	48	W.	3	5	6	9	8	5	3	6	14	0	16	8	4	5	3	6	2	0	0	8	0	25	2	0
March	11.1	NW.	38	NW.	0	8	9	5	16	10	1	2	11	0	11	6	14	11	9	6	3	0	0	1	0	12	3	0
April	10.1	SE.	60	NW.	1	3	9	8	17	9	5	0	9	0	12	8	10	9	7	1	0	0	1	0	0	1	1	0
May	8.1	NW.	31	NW.	0	3	5	11	7	8	5	8	14	1	9	15	7	12	9	0	0	1	1	0	0	0	8	0
June	6.4	S.	44	NW.	1	2	9	8	10	12	10	1	6	2	22	7	1	7	6	0	0	0	0	0	9	0	6	0
July	6.7	SE.	48	NW.	1	4	12	6	16	8	5	4	6	1	17	11	3	9	6	0	0	0	0	0	9	0	7	0
August	6.0	SE.	28	NW.	0	1	10	10	19	9	3	3	4	3	19	8	4	7	5	0	0	0	2	0	18	0	6	0
September	7.0	S.	29	NW.	0	5	11	6	14	14	4	2	4	0	21	5	4	7	7	0	0	0	0	0	7	0	7	0
October	6.9	S.	37	NW.	0	9	3	2	10	19	6	4	9	0	23	3	5	6	5	0	0	0	2	0	0	1	3	0
November	9.6	NW.	37	NW.	0	1	2	4	9	11	9	9	15	0	17	6	7	10	8	0	0	0	0	0	0	9	3	0
December	9.0	NW.	31	NW.	0	4	10	11	5	8	6	3	15	0	15	10	6	3	1	4	1	0	1	9	0	25	0	0
Year	8.4	SE.	60	NW.	6	48	94	85	146	123	65	44	118	7	197	95	73	91	70	25	9	1	7	25	43	103	47	0

ST. LOUIS, MO.

[H_b=568 ft.; h_t=265 ft.; h_r=258 ft.; h_a=303 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	12.0	S.	48	SW.	2	9	7	11	3	13	4	5	10	0	11	10	10	6	4	7	3	0	1	9	0	25	0	0
February	15.0	S.	50	S.	3	7	5	6	4	12	5	4	13	0	6	11	11	9	6	6	2	0	2	4	0	19	0	0
March	15.7	S.	50	S.	3	9	5	6	3	21	4	5	9	0	8	6	17	13	12	5	2	2	2	2	0	6	3	0
April	15.2	S.	50	SW.	5	6	9	8	5	22	4	2	4	0	13	9	8	11	11	0	0	2	1	0	0	0	8	0
May	11.5	S.	37	SW.	0	4	0	15	3	22	3	8	7	0	7	18	6	6	6	0	0	0	0	0	0	0	6	0
June	10.0	S.	37	S.	0	10	8	5	2	19	12	0	4	0	8	17	5	7	5	0	0	0	0	0	11	0	7	0
July	10.7	S.	42	S.	3	12	7	8	0	22	7	3	2	1	8	15	8	9	7	0	0	0	0	0	14	0	7	0
August	9.6	S.	49	SW.	2	10	5	5	4	20	7	4	7	0	13	13	5	7	7	0	0	0	0	0	15	0	6	0
September	9.8	S.	39	SW.	0	8	11	7	1	14	13	3	3	0	22	5	3	5	4	0	0	0	0	0	7	0	5	0
October	11.0	S.	37	N.	0	9	1	7	7	19	6	5	8	0	17	5	9	7	5	0	0	0	0	0	1	0	2	0
November	13.6	S.	44	S.	2	6	0	3	3	21	8	9	10	0	11	10	9	10	7	2	1	0	1	0	0	3	1	0
December	13.3	S.	39	S.	0	5	8	3	9	15	4	6	12	0	10	11	10	8	7	5	1	0	4	5	0	20	1	0
Year	12.3	S.	50	S.	20	95	66	84	44	220	77	54	89	1	134	130	101	98	81	25	9	4	11	20	48	73	46	0

ST. PAUL, MINN.

[H_b=837 ft.; h_t=236 ft.; h_r=228 ft.; h_a=261 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	12.7	SE.	52	NW.	2	3	1	0	12	1	6	3	5	0	10	12	9	7	4	11	7	0	1	24	0	31	0	0
February	13.5	W.	44	NW.	3	2	2	1	6	0	5	6	6	0	11	10	7	12	9	13	11	0	0	21	0	28	2	0
March	13.2	SE.	44	SW.	3	0	1	6	7	2	4	0	11	0	9	15	7	11	8	7	6	0	0	4	0	27	1	0
April	12.7	SE.	52	SW.	3	3	2	3	9	4	3	2	4	0	4	13	13	11	8	6	3	0	3	0	0	7	0	0
May	11.9	SE.	46	SE.	2	1	3	3	9	3	6	2	4	0	5	18	8	14	12	0	0	0	0	0	0	0	5	0
June	11.3	SE.	56	W.	3	2	1	2	10	3	5	4	3	0	10	16	4	12	11	0	0	1	0	0	1	0	12	0
July	9.9	W.	42	SE.	1	4	1	1	7	4	3	8	3	0	9	17	5	7	6	0	0	1	1	0	1	0	6	0
August	9.9	SE.	48	NW.	1	0	2	3	10	2	6	5	3	0	11	17	3	7	6	0	0	0	1	0	5	0	6	0
September	10.4	SE.	37	SE.	0	2	1	2	12	2	6	1	4	0	14	10	6	8	8	0	0	0	0	0	3	0	4	0
October	11.9	SW.	40	W.	2	2	1	3	8	5	6	2	4	0	11	12	8	7	6	1	1	0	3	0	0	5	1	0
November	13.6	SW.	58	SW.	2	0	1	2	7	1	8	3	8	0	3	3	24	13	12	4	1	0	0	3	0	14	0	0
December	13.2	W.	50	W.	3	3	0	1	10	3	4	8	2	0	8	12	11	4	1	5	4	0	0	19	0	31	1	0
Year	12.0	SE.	58	SW.	25	22	16	27	107	30	62	44	57	0	105	155	105	113	89	47	33	2	9	71	10	143	38	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

SALT LAKE CITY, UTAH.

[ϕ=40° 46′ N.; λ=111° 54′ W.]

Month.	Pressure.			Temperature.								Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	25.688	26.240	25.020	19.2	25.8	25.4	29.9	14.6	22.2	50	−7	15	18	18	82	68	72	0.067	0.098	0.100	1.42	0.59	4.5	4.2	4.3	4.6
February	25.594	26.070	25.150	26.6	33.0	32.4	36.9	22.6	29.8	57	10	21	23	24	79	68	71	.120	.127	.132	2.36	.51	7.1	7.0	6.5	7.1
March	25.608	26.046	25.220	32.0	40.3	40.4	45.2	23.3	36.8	68	12	22	24	27	66	52	60	.121	.130	.148	2.44	.66	4.3	6.2	6.9	6.3
April	25.576	26.030	25.120	39.1	47.9	48.3	52.6	36.1	44.4	70	24	27	30	28	62	52	50	.147	.166	.156	3.06	.91	6.1	6.4	5.9	5.7
May	25.597	25.850	25.098	50.3	62.4	65.4	67.4	47.9	57.6	87	34	34	33	32	56	36	31	.198	.188	.182	2.16	1.57	4.5	3.2	3.2	3.2
June	25.590	25.830	25.341	63.4	80.4	81.9	84.9	61.0	73.0	97	51	40	40	39	44	26	24	.250	.255	.243	.83	.75	2.4	3.0	2.9	2.4
July	25.663	25.820	25.380	66.6	83.3	84.7	88.3	64.8	76.6	98	58	44	47	44	46	32	27	.300	.334	.302	.65	.45	2.5	3.2	4.0	2.9
August	25.649	25.870	25.388	68.2	82.0	81.4	86.3	66.0	76.2	93	59	51	52	52	56	37	38	.385	.396	.388	1.86	.35	4.6	4.4	5.2	4.5
September	25.664	25.860	25.408	59.4	77.6	78.3	81.2	57.3	69.2	92	47	39	41	40	48	29	26	.242	.266	.252	.01	.01	2.2	2.8	2.2	1.9
October	25.627	25.940	25.210	49.0	62.6	61.2	66.3	45.5	55.9	83	34	32	35	36	54	39	43	.181	.211	.218	.66	.64	3.3	4.1	3.8	3.9
November	25.689	26.050	25.070	34.8	41.7	40.0	44.6	31.3	38.0	56	25	27	28	30	72	61	69	.145	.156	.167	3.33	1.32	4.4	6.4	4.8	5.5
December	25.661	26.090	25.150	31.9	36.2	34.4	38.4	27.8	33.1	50	17	26	28	28	79	71	77	.139	.149	.152	2.92	.74	8.5	6.8	8.1	7.8
Year	25.634	26.240	25.030	45.0	56.1	56.2	60.2	41.9	51.1	98	−7	32	33	33	62	48	49	.193	.206	.203	21.69	1.57	4.5	4.8	4.8	4.6

SAN ANTONIO, TEX.

[ϕ=29° 27′ N.; λ=98° 28′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.385	29.760	28.980	43.9	51.9	52.8	57.4	41.5	49.4	79	29	37	36	37	77	61	59	0.233	0.234	0.236	1.23	0.59	6.8	7.4	6.7	7.1
February	29.331	29.840	28.970	50.6	62.6	62.8	68.5	47.9	58.2	86	27	46	43	42	83	54	50	.326	.308	.286	1.26	.81	5.2	4.8	5.0	5.2
March	29.282	29.720	28.940	62.5	66.6	68.7	73.0	50.3	61.6	85	22	46	42	42	80	44	44	.357	.303	.313	3.29	2.63	4.8	3.6	4.1	4.5
April	29.202	29.750	28.820	63.3	74.7	74.8	79.4	60.9	70.2	90	50	58	56	56	84	56	56	.505	.484	.483	5.46	2.95	7.2	5.9	5.9	6.5
May	29.155	29.360	28.951	69.6	82.1	80.8	87.0	67.1	77.0	97	57	64	66	64	83	59	60	.607	.641	.613	3.46	1.80	5.7	4.9	5.1	5.4
June	29.236	29.410	29.097	71.8	83.7	84.4	89.0	69.7	79.4	96	62	66	68	66	84	60	57	.652	.677	.654	3.92	1.28	4.3	5.2	3.7	4.5
July	29.286	29.470	29.120	75.1	89.1	89.9	94.4	73.8	84.1	98	69	70	65	64	84	46	44	.729	.623	.604	.10	.10	4.1	3.7	2.8	3.8
August	29.226	29.401	29.070	75.6	90.9	92.0	96.7	75.0	85.8	100	69	69	64	62	81	42	38	.715	.598	.564	.27	.20	2.8	3.7	3.5	3.4
September	29.265	29.450	29.090	70.2	85.2	83.3	89.6	69.7	79.6	98	62	65	62	62	83	48	52	.626	.570	.571	.97	.72	2.7	4.9	3.5	4.0
October	29.240	29.520	28.990	61.2	78.5	76.8	83.3	59.5	71.4	97	50	53	52	52	76	41	44	.424	.408	.400	3.55	1.58	3.4	3.5	3.3	3.4
November	29.359	29.590	29.120	55.9	66.2	64.6	69.9	53.9	61.9	83	41	51	51	52	84	62	65	.399	.412	.409	.98	.30	7.4	7.1	6.0	7.0
December	29.342	29.680	29.020	52.7	63.8	63.0	69.4	49.9	59.6	82	31	46	47	44	80	57	54	.351	.354	.328	.10	.09	5.3	5.0	3.6	4.3
Year	29.276	29.840	28.820	61.9	74.6	74.5	79.8	59.9	69.8	100	22	56	54	54	82	52	52	.494	.468	.454	24.59	2.95	5.0	5.0	4.4	4.9

SAN DIEGO, CALIF.

[ϕ=32° 43′ N.; λ=117° 10′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.954	30.230	29.570	48.3	57.5	56.0	60.0	45.0	52.5	72	35	37	45	45	67	65	68	0.231	0.303	0.306	3.45	1.67	3.3	5.0	4.9	4.4
February	29.981	30.130	29.657	48.9	58.4	57.4	60.8	46.6	53.7	72	37	43	50	49	82	76	75	.300	.371	.350	1.86	1.01	5.1	5.1	4.6	5.0
March	29.980	30.210	29.580	49.4	58.8	58.2	61.5	47.7	54.6	73	38	44	50	48	83	74	70	.295	.364	.337	1.34	.71	5.0	3.8	4.2	4.2
April	29.928	30.150	29.771	51.3	60.0	59.2	62.6	50.0	56.3	80	44	45	48	46	81	69	64	.305	.346	.319	.17	.07	5.8	4.8	5.2	5.0
May	29.865	30.040	29.660	55.5	63.5	62.3	66.0	54.6	60.3	81	48	51	52	52	85	70	71	.379	.398	.395	.36	.19	7.2	3.8	4.3	5.0
June	29.837	29.960	29.700	59.9	66.9	66.4	69.5	59.1	64.2	77	55	57	57	57	90	72	72	.464	.468	.456	T.	T.	7.8	2.7	3.5	4.7
July	29.872	29.960	29.776	63.7	70.5	69.6	72.5	62.9	67.7	76	60	61	61	61	90	72	73	.531	.540	.530	.01	.01	8.5	2.0	2.9	4.0
August	29.795	29.960	29.630	65.9	73.8	72.2	76.1	65.3	70.7	84	62	62	62	62	88	69	72	.563	.568	.567	T.	T.	7.4	2.5	3.6	3.7
September	29.784	29.920	29.660	64.9	73.5	71.9	76.0	64.0	70.0	92	58	62	62	63	90	69	74	.547	.563	.581	.00	.00	6.4	1.7	2.5	2.6
October	29.847	30.000	29.709	58.7	68.5	66.0	71.0	57.0	64.0	88	48	52	53	55	79	60	70	.393	.406	.437	.09	.09	4.8	1.5	2.9	3.0
November	29.944	30.150	29.570	51.3	65.1	61.3	67.0	48.9	58.0	79	45	39	42	46	66	48	61	.247	.280	.324	.75	.38	2.5	2.1	2.4	2.3
December	29.994	30.190	29.800	53.0	63.0	59.8	64.7	51.2	58.0	74	41	47	48	51	81	63	75	.330	.349	.383	1.21	.66	5.5	5.2	5.3	5.5
Year	29.898	30.230	29.570	55.9	65.0	63.4	67.3	54.4	60.8	92	35	50	52	53	82	67	70	.382	.413	.416	9.24	1.67	5.8	3.4	3.9	4.1

SAND KEY, FLA.

[ϕ=24° 27′ N.; λ=81° 52′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	30.076	30.410	29.720	69.9	71.1	71.1	72.8	67.5	70.2	77	56	63	63	63	78	76	76	0.579	0.592	0.584	3.04	2.07	3.5	3.9	3.7	4.0
February	30.100	30.370	29.920	71.0	71.7	71.9	74.2	68.6	71.4	79	53	63	65	64	78	80	78	.600	.631	.621	2.22	1.57	4.1	3.5	2.1	3.3
March	30.071	30.210	29.900	73.5	74.4	74.3	75.5	71.8	73.6	79	63	65	65	66	76	74	75	.634	.665	.640	.27	.17	3.2	3.4	2.1	2.8
April	30.061	30.210	29.960	76.4	77.0	76.8	77.8	75.0	76.4	82	71	66	67	68	71	72	75	.641	.662	.691	.01	.01	3.8	3.1	2.8	2.9
May	29.936	30.100	29.710	77.7	78.3	77.9	79.9	74.5	77.2	83	69	71	72	71	80	80	80	.763	.773	.759	4.91	1.89	5.6	5.9	5.8	6.0
June	30.005	30.120	29.890	81.2	81.6	81.2	83.8	78.4	81.1	89	71	73	73	72	76	74	74	.800	.804	.791	.54	.18	4.0	4.1	5.7	4.6
July	30.074	30.160	29.980	81.8	82.4	82.1	83.5	78.6	81.0	88	70	72	73	73	73	72	74	.797	.804	.810	1.68	.84	5.3	5.0	4.9	5.2
August	29.971	30.080	29.870	82.4	82.8	82.4	84.7	79.1	81.9	89	71	73	73	73	74	72	73	.812	.808	.808	1.76	.84	5.0	4.7	4.9	5.0
September	29.934	30.060	29.800	81.8	82.4	81.9	83.3	77.2	80.2	84	69	73	73	74	75	74	76	.815	.815	.825	1.98	.42	6.7	6.2	5.7	6.6
October	29.866	30.011	29.690	79.9	80.5	79.8	81.6	76.5	79.0	87	68	72	72	72	78	76	78	.791	.785	.785	9.05	2.92	5.9	5.4	4.9	5.4
November	30.020	30.260	29.800	75.3	76.7	76.2	77.9	72.5	75.2	82	62	67	66	66	75	71	73	.664	.658	.660	3.87	1.78	4.9	4.8	3.9	4.9
December	30.087	30.320	29.870	73.2	74.6	73.7	75.7	70.6	73.2	83	61	66	66	66	77	76	73	.640	.652	.649	2.34	1.41	3.3	2.9	3.0	3.4
Year	30.017	30.410	29.690	77.0	77.8	77.4	79.2	74.2	76.7	89	53	69	69	69	76	75	76	.711	.721	.719	31.67	2.92	4.6	4.4	4.1	4.5

Annual meteorological summary for the year ending December 31, 1922—Continued.

SALT LAKE CITY, UTAH.

[H_b=4,360 ft.; h_t=163 ft.; h_r=156 ft.; h_a=203 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	5.9	SE.	33	NW.	0	5	5	5	13	9	4	7	14	0	14	5	12	10	7	11	10	0	6	22	0	30	0	0
February	7.5	NW.	42	SW.	2	3	2	5	8	16	3	4	14	1	6	4	18	11	9	16	11	0	0	10	0	25	0	0
March	6.5	NW.	39	NW.	0	10	2	7	6	11	4	3	18	1	5	11	15	14	10	13	11	0	1	4	0	19	2	0
April	7.4	NW.	38	NW.	0	7	6	5	10	8	4	2	17	1	11	6	13	11	10	10	7	0	0	1	0	12	1	0
May	8.5	NW.	47	SW.	2	3	5	4	9	12	5	1	22	1	19	8	4	7	5	2	1	1	0	0	0	0	5	0
June	7.7	NW.	42	SW.	1	3	5	3	15	12	2	1	19	0	23	4	3	4	3	0	0	0	0	0	8	0	3	0
July	6.5	NW.	39	NW.	0	8	8	4	8	14	2	2	15	1	19	9	3	4	3	0	0	0	0	0	13	0	6	0
August	5.3	SE.	60	NW.	1	4	7	4	11	10	8	4	13	1	14	11	6	13	12	0	0	2	0	0	7	0	14	0
September	6.7	NW.	30	SW.	0	5	4	2	10	16	3	0	19	1	24	4	2	1	0	0	0	0	0	0	1	0	2	0
October	6.8	NW.	29	S.	0	9	3	1	7	16	4	0	20	2	16	7	8	3	1	1	1	0	0	0	0	0	2	0
November	5.1	SE.	39	S.	0	5	6	9	8	14	1	4	12	1	13	3	14	10	9	10	6	0	0	1	0	22	1	0
December	5.6	SE.	44	S.	3	1	4	8	11	8	9	3	7	11	4	8	19	14	12	16	13	0	0	5	0	28	0	0
Year	6.6	NW.	60	NW.	9	63	57	57	116	146	49	31	190	21	168	80	117	102	81	79	60	3	7	43	29	136	36	0

SAN ANTONIO, TEX.

[H_b=693 ft.; h_t=119 ft.; h_r=112 ft.; h_a=132 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	8.4	NE.	45	NW.	1	14	26	3	2	6	2	0	9	0	7	3	21	11	7	0	0	0	2	0	0	3	0	0
February	9.4	NE.	60	NW.	1	12	13	6	8	8	0	2	7	0	9	11	8	9	3	0	0	0	2	0	0	1	2	0
March	9.7	SE.	32	NW.	0	9	7	5	20	3	3	1	13	1	15	7	9	7	4	0	0	1	1	0	0	3	3	0
April	10.1	SE.	44	NW.	2	7	17	5	19	5	2	1	4	0	7	7	16	8	7	0	0	0	0	0	1	0	6	0
May	7.1	S.	46	SE.	2	11	13	10	11	9	5	0	3	0	9	16	6	11	7	0	0	1	0	0	9	0	10	0
June	6.0	S.	35	NW.	0	8	9	11	16	8	1	0	5	2	12	11	7	10	9	0	0	0	0	0	13	0	7	0
July	7.7	S.	31	NE.	0	2	4	7	27	15	4	0	3	0	17	12	2	1	1	0	0	1	0	0	29	0	1	0
August	5.7	S.	28	SE.	0	8	10	7	16	13	2	3	1	2	19	11	1	3	2	0	0	0	0	0	31	0	0	0
September	7.2	NE.	28	NE.	0	13	20	7	13	5	1	0	1	0	15	9	6	8	4	0	0	0	0	0	15	0	3	0
October	7.2	N.	38	NW.	0	24	8	7	10	5	3	1	4	0	17	10	4	5	5	0	0	0	1	0	5	0	3	0
November	8.3	N.	28	N.	0	14	19	3	10	5	3	2	4	0	6	7	17	12	6	0	0	0	1	0	0	0	1	0
December	7.5	S.	40	NW.	1	11	5	3	4	21	1	1	16	0	14	10	7	2	1	0	0	0	1	0	0	1	0	0
Year	7.9	S.	60	NW.	7	133	151	74	156	103	27	11	70	5	147	114	104	87	57	0	0	3	8	0	103	8	36	0

SAN DIEGO, CALIF.

[H_b=87 ft.; h_t=62 ft.; h_r=55 ft.; h_a=70 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	6.7	NW.	52	S.	2	2	13	5	5	3	6	10	18	0	15	8	8	10	9	0	0	2	0	0	0	0	2	0
February	5.9	NW.	38	S.	0	1	11	4	6	5	3	7	17	2	11	9	8	10	6	0	0	0	0	0	0	0	0	0
March	6.6	NW.	38	S.	0	4	7	11	3	2	2	19	14	0	14	9	8	8	2	0	0	0	0	0	0	0	0	0
April	6.6	W.	30	W.	0	1	5	6	2	5	15	13	12	1	10	13	7	6	2	0	0	1	0	0	0	0	0	0
May	6.7	NW.	41	S.	1	6	5	1	5	9	7	10	17	2	11	11	9	2	2	0	0	0	3	0	0	0	0	0
June	5.3	NW.	19	S.	0	10	2	1	2	5	13	14	11	2	12	13	5	0	0	0	0	0	6	0	0	0	0	0
July	6.2	W.	22	W.	0	5	0	0	0	4	11	24	17	1	16	11	4	1	0	0	0	0	1	0	0	0	1	0
August	5.8	NW.	19	NW.	0	3	3	0	4	7	4	17	24	0	15	13	3	0	0	0	0	0	1	0	0	0	1	0
September	6.0	NW.	23	NW.	0	7	0	0	2	8	8	10	23	2	22	6	2	0	0	0	0	0	4	0	1	0	0	0
October	6.0	NW.	30	W.	0	10	5	5	2	4	1	11	22	2	18	11	2	2	1	0	0	0	1	0	0	0	0	0
November	5.5	NW.	28	S.	0	3	8	11	3	1	4	5	25	0	21	7	2	4	3	0	0	1	4	0	0	0	0	0
December	5.3	NW.	28	S.	0	4	8	7	1	9	4	4	25	0	11	8	12	8	7	0	0	0	2	0	0	0	0	0
Year	6.0	NW.	52	S.	3	56	67	51	35	62	78	144	225	12	176	119	70	51	32	0	0	4	22	0	1	0	4	0

SAND KEY, FLA.

[H_b=23 ft.; h_t=39 ft.; h_r=6 ft.; h_a=72 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	17.1	E.	48	NW.	1	3	18	26	4	4	1	2	4	0	13	14	4	9	7	0	0	0	0	0	0	0	3	0
February	18.2	E.	48	NW.	2	2	9	20	18	5	0	0	2	0	17	9	2	8	7	0	0	0	0	0	0	0	0	0
March	18.6	SE.	36	NE.	0	5	8	23	18	5	1	0	2	0	24	4	3	5	3	0	0	0	0	0	0	0	0	0
April	15.5	SE.	37	E.	0	0	7	29	19	3	0	0	2	0	19	9	2	1	0	0	0	0	0	0	0	0	0	0
May	12.3	SE.	42	SW.	1	3	2	12	17	14	3	4	7	0	9	11	11	14	12	0	0	0	0	0	0	0	15	0
June	9.0	SE.	33	S.	0	0	2	22	20	11	4	0	1	0	8	18	4	6	4	0	0	0	0	0	0	0	17	0
July	11.3	SE.	37	E.	0	1	2	30	26	2	0	0	1	0	8	16	7	7	7	0	0	0	0	0	0	0	18	0
August	9.3	SE.	36	NW.	0	3	5	16	21	12	1	3	1	0	13	12	6	11	8	0	0	0	0	0	0	0	19	0
September	11.8	E.	48	W.	2	0	6	16	18	8	4	5	3	0	1	17	12	13	10	0	0	0	0	0	0	0	12	0
October	14.1	S.	48	S.	2	9	15	6	10	11	7	1	3	0	10	11	10	12	10	0	0	0	0	0	0	0	7	0
November	17.9	E.	42	NW.	2	4	22	24	3	1	2	3	1	0	10	16	4	12	10	0	0	0	0	0	0	0	3	0
December	16.3	NE.	39	SW.	0	1	20	16	14	3	1	1	6	0	20	9	2	9	8	0	0	0	0	0	0	0	5	0
Year	14.3	E.	48	NW.	10	31	116	240	188	79	24	19	33	0	152	146	67	107	86	0	0	0	0	0	0	0	99	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

SANDUSKY, OHIO.

[ϕ=41° 25′ N.; λ=82° 40′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.482	30.070	28.860	22.0	27.5	....	32.8	18.9	25.8	56	3	15	18	....	73	66	....	0.092	0.104	....	1.29	0.45	5.3	5.1	....	4.5
February	29.403	29.980	28.763	29.1	33.6	....	37.9	24.8	31.4	68	8	23	24	....	76	66	....	.131	.140	....	1.00	.31	7.0	7.8	....	7.2
March	29.397	29.930	28.550	34.3	39.7	....	45.7	31.5	38.6	73	21	29	31	....	81	73	....	.165	.180	....	4.43	1.11	7.5	6.4	....	6.8
April	29.375	29.770	28.490	46.2	52.3	....	56.7	41.2	49.0	80	32	39	38	....	76	61	....	.255	.252	....	3.02	1.27	5.5	6.0	....	5.5
May	29.301	29.721	28.490	60.3	65.0	....	68.9	55.4	62.2	84	43	52	52	....	75	65	....	.395	.398	....	2.58	.99	5.0	5.7	....	4.8
June	29.314	29.560	28.930	67.6	74.1	....	77.9	62.2	70.0	94	52	59	59	....	74	61	....	.503	.513	....	1.96	.91	5.2	5.1	....	5.0
July	29.349	29.610	29.050	71.3	77.5	....	80.9	65.6	73.2	92	54	61	60	....	70	56	....	.541	.527	....	2.60	1.08	4.8	5.1	....	4.6
August	29.331	29.620	28.870	68.1	76.0	....	79.4	63.4	71.4	94	53	58	60	....	72	60	....	.498	.535	....	2.52	1.56	3.5	4.2	....	3.9
September	29.438	29.730	29.160	64.0	74.0	....	76.7	60.5	68.6	95	45	56	60	....	76	63	....	.463	.531	....	1.86	1.41	4.3	3.8	....	3.9
October	29.333	29.745	28.810	51.2	60.5	....	63.8	48.5	56.2	88	32	44	46	....	78	60	....	.310	.321	....	1.21	.60	5.0	5.1	....	5.2
November	29.405	29.770	28.870	40.5	47.5	....	50.1	38.1	44.1	67	24	35	36	....	81	66	....	.217	.225	....	1.27	.43	7.3	7.9	....	7.7
December	29.399	29.900	28.900	29.0	32.7	....	37.2	24.2	30.7	62	5	25	25	....	84	73	....	.144	.143	....	3.07	.91	7.5	6.7	....	6.8
Year	29.377	30.070	28.490	48.6	55.0	....	59.0	44.5	51.8	95	3	41	42	....	76	64	....	.310	.322	....	26.81	1.56	5.7	5.7	....	5.5

SANDY HOOK, N. J.

[ϕ=40° 28′ N.; λ=74° 01′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	30.142	30.650	28.720	26.5	30.8	30.3	34.6	24.0	29.3	50	10	19	19	21	70	61	66	0.108	0.113	0.119	1.74	0.84	4.7	4.9	3.7	5.1
February	30.103	30.580	29.400	30.9	34.3	34.2	39.5	27.6	33.6	63	3	25	26	26	78	71	71	.143	.148	.148	2.27	.50	6.6	5.8	5.2	6.1
March	30.069	30.690	29.290	37.4	42.1	40.5	46.2	34.1	40.2	69	20	30	31	32	73	65	72	.177	.183	.188	3.94	.95	5.5	5.9	4.6	5.8
April	30.031	30.420	29.220	46.8	53.2	49.9	58.9	42.2	49.6	81	35	38	36	37	71	56	63	.237	.230	.233	2.08	.58	5.1	5.3	4.3	5.0
May	29.980	30.470	29.440	58.9	66.0	60.5	69.7	54.0	61.8	85	43	52	52	52	78	63	76	.392	.397	.400	3.27	1.96	4.4	3.9	4.0	4.3
June	29.938	30.160	29.457	68.4	73.3	69.9	76.3	64.2	70.2	88	56	62	63	64	82	73	82	.569	.596	.598	8.98	1.93	5.5	5.5	6.8	5.9
July	30.001	30.230	29.681	70.8	76.3	71.7	78.7	66.7	72.7	88	60	65	66	66	82	72	84	.621	.648	.656	5.36	2.20	5.4	4.8	5.8	5.4
August	29.964	30.310	29.620	69.7	75.0	71.4	77.9	66.0	72.0	89	58	64	64	64	82	71	80	.605	.618	.613	2.76	.72	5.6	5.2	6.0	5.8
September	30.100	30.450	29.690	64.7	71.2	67.8	73.9	62.1	68.0	89	50	58	58	60	80	66	76	.505	.512	.530	1.09	.45	4.1	3.7	2.9	3.8
October	29.970	30.451	29.490	55.0	61.4	58.6	64.6	52.4	58.5	86	36	48	48	49	76	62	71	.366	.368	.379	1.28	.51	3.7	4.1	2.7	3.6
November	30.025	30.490	29.410	43.3	48.4	45.6	50.7	40.6	45.6	63	30	35	36	36	73	62	71	.218	.219	.225	1.10	.46	5.9	4.2	3.2	5.5
December	30.117	30.651	29.380	32.6	35.8	35.4	39.4	29.5	34.4	54	18	27	28	28	79	75	74	.152	.161	.157	3.39	1.02	6.9	6.8	4.4	6.9
Year	30.037	30.690	28.720	50.4	55.6	53.0	59.0	47.0	53.0	89	3	44	44	45	77	66	74	.341	.349	.354	37.26	2.20	5.3	5.0	4.5	5.3

SAN FRANCISCO, CALIF.

[ϕ=37° 48′ N.; λ=122° 26′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.946	30.250	29.250	43.0	47.8	49.8	52.6	40.9	46.8	61	32	36	35	35	79	63	59	0.222	0.209	0.210	2.41	0.91	3.0	3.3	3.3	3.7
February	29.880	30.220	29.472	46.7	51.7	52.8	55.8	44.7	50.2	63	38	42	41	42	84	69	68	.268	.266	.268	5.15	1.58	5.2	6.5	6.6	6.4
March	29.939	30.230	29.380	48.0	54.6	54.7	58.1	46.6	52.4	69	35	42	42	42	82	62	64	.272	.266	.266	2.38	.88	5.5	5.0	5.9	5.5
April	29.918	30.240	29.620	47.6	57.4	55.3	60.3	46.7	53.5	75	44	40	42	41	78	58	61	.256	.269	.263	.47	.44	3.2	2.0	2.3	2.1
May	29.839	30.090	29.580	51.4	63.5	59.2	66.2	49.9	58.0	87	44	46	47	46	83	57	64	.307	.321	.312	.55	.30	4.4	3.2	3.7	3.6
June	29.805	29.986	29.660	53.7	63.6	61.5	67.0	53.0	60.0	84	50	51	52	52	90	67	71	.371	.388	.384	.26	.24	6.3	2.7	2.9	3.8
July	29.824	29.900	29.665	55.2	63.0	61.0	65.8	54.5	60.2	74	50	52	53	54	90	71	76	.391	.405	.411	T.	T.	7.6	3.2	3.2	4.4
August	29.791	29.950	29.600	54.3	64.3	62.0	67.2	53.6	60.4	81	51	52	53	53	93	68	72	.389	.408	.397	T.	T.	6.8	1.3	1.1	3.0
September	29.761	29.950	29.610	56.1	68.1	64.7	71.6	55.0	63.3	91	52	53	54	53	90	62	68	.402	.418	.402	T.	T.	4.2	.6	1.4	2.1
October	29.823	29.960	29.610	55.0	63.5	63.2	67.1	54.2	60.6	81	49	51	49	50	88	63	65	.378	.357	.363	2.95	1.54	5.0	4.7	3.9	5.4
November	29.918	30.230	29.374	50.1	56.3	56.7	60.3	48.3	54.3	65	43	45	43	45	83	64	67	.298	.289	.305	3.77	2.09	2.6	3.1	3.4	3.4
December	29.940	30.240	29.510	48.2	52.4	52.0	55.4	45.9	50.6	61	41	46	46	46	91	78	83	.309	.309	.319	7.77	1.81	5.6	6.4	6.7	6.7
Year	29.865	30.250	29.250	50.8	58.8	57.7	62.3	49.4	55.9	91	32	46	46	47	86	65	68	.322	.325	.325	25.71	2.09	5.0	3.5	3.7	4.2

SAN JOSE, CALIF.

[ϕ=37° 20′ N.; λ=121° 54′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.974	30.270	29.300	....	49.6	49.8	54.1	31.7	42.9	62	23	....	34	34	....	56	58	....	0.201	0.207	2.46	0.68	....	3.4	2.5	3.7
February	29.915	30.250	29.540	....	54.2	54.7	57.9	40.1	49.0	67	28	....	40	40	....	61	59	....	.257	.232	3.01	1.12	....	6.5	6.2	6.7
March	29.962	30.250	29.432	....	57.2	57.4	61.3	40.0	50.6	72	34	....	40	41	....	54	55	....	.255	.263	1.74	.69	....	6.3	5.1	6.5
April	29.941	30.289	29.660	....	62.0	61.3	66.0	40.0	53.9	78	33	....	40	41	....	47	49	....	.261	.261	.32	.23	....	1.6	2.0	2.5
May	29.855	30.143	29.630	....	70.3	69.3	74.4	46.0	60.2	92	38	....	47	47	....	45	47	....	.327	.328	.50	.38	....	2.5	2.7	3.2
June	29.812	30.017	29.681	....	75.1	74.1	79.1	52.3	65.7	98	45	....	53	52	....	48	48	....	.407	.398	.01	.01	....	2.3	2.2	3.0
July	29.830	29.990	29.673	....	77.4	75.9	81.5	54.5	68.0	94	45	....	57	57	....	50	53	....	.471	.472	T.	T.	....	1.0	1.2	2.4
August	29.813	29.950	29.650	....	74.6	74.1	78.9	51.2	65.0	91	46	....	54	54	....	49	51	....	.414	.417	T.	T.	....	1.3	1.1	2.1
September	29.775	29.960	29.620	....	78.5	77.7	83.7	51.3	67.5	96	43	....	51	54	....	41	45	....	.387	.415	.00	.00	....	.7	.4	1.7
October	29.849	30.000	29.650	....	66.8	65.8	71.2	47.1	59.2	85	35	....	48	49	....	54	58	....	.538	.358	1.55	.90	....	4.8	3.6	4.6
November	29.946	30.260	29.410	....	58.1	57.0	62.1	38.9	50.5	68	30	....	40	42	....	54	59	....	.257	.275	2.72	1.59	....	3.1	2.9	3.6
December	29.972	30.260	29.550	....	54.2	53.5	57.2	41.7	49.4	64	31	....	45	46	....	72	76	....	.302	.311	4.68	1.60	....	6.9	5.8	6.6
Year	29.887	30.289	29.300	....	64.8	64.2	69.0	44.6	56.8	98	23	....	46	46	....	53	55	....	.323	.330	16.99	1.60	....	3.4	3.0	3.9

Annual meteorological summary for the year ending December 31, 1922—Continued.

SANDUSKY, OHIO.

[H_b=629 ft.; h_1=62 ft.; h_2=54 ft.; h_3=103 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.01 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	13.6	SW.	44	SW.	3	2	4	2	4	2	12	1	4	0	12	11	8	6	6	8	5	0	1	17	0	30	0	0
February	14.9	SW.	60	W.	3	5	0	2	2	4	7	8	0	0	1	13	14	12	8	14	9	0	1	10	0	24	0	0
March	14.3	NE.	42	W.	2	3	4	5	3	3	5	2	6	0	5	10	16	15	15	9	5	0	2	3	0	17	2	0
April	14.1	SW.	56	W.	8	1	2	6	2	3	8	6	2	0	8	11	11	13	11	1	1	0	2	0	0	0	4	0
May	9.1	E.	44	NW.	1	3	3	5	5	7	4	2	2	0	12	9	10	11	8	0	0	1	0	0	0	0	3	0
June	10.2	SW.	42	SW.	2	4	5	0	2	6	11	1	1	0	8	15	7	9	7	0	0	0	0	0	1	0	9	0
July	9.9	SW.	46	SW.	1	4	6	2	3	4	10	2	0	0	9	18	4	9	8	0	0	0	0	0	1	0	7	0
August	9.2	SW.	50	N.	2	2	5	0	2	7	12	2	1	0	15	12	4	5	4	0	0	1	0	0	3	0	5	0
September	9.7	NE.	46	N.	1	5	6	1	0	8	9	1	0	0	16	8	6	5	5	0	0	0	0	0	0	5	4	0
October	12.1	SW.	36	SW.	0	3	3	3	2	3	10	5	2	0	10	11	10	8	5	0	0	1	0	0	0	0	1	0
November	14.8	SW.	43	NW.	1	1	0	3	1	4	13	3	5	0	3	9	18	10	6	7	4	0	0	2	0	8	0	0
December	13.1	SW.	42	NW.	2	4	2	1	4	2	11	5	2	0	3	12	16	8	7	8	3	0	2	12	0	24	0	0
Year	12.1	SW.	60	W.	26	37	40	30	30	53	112	38	25	0	102	139	124	111	90	47	27	3	8	44	10	103	35	0

SANDY HOOK, N. J.

[H_b=22 ft.; h_1=10 ft.; h_2=3 ft.; h_3=55 ft.]

January	19.0	NW.	72	NE.	9	9	6	1	1	9	12	11	13	0	12	8	11	8	6	6	4	0	2	11	0	26	0	1
February	15.8	NW.	56	NW.	10	2	9	3	3	8	7	8	16	0	5	12	11	14	11	5	5	0	5	5	0	19	1	0
March	17.5	NW.	62	S.	6	4	9	3	3	9	11	9	14	0	8	9	14	15	12	6	3	0	1	1	0	11	1	0
April	15.8	W.	56	SW.	8	3	8	2	3	12	10	11	11	0	11	12	7	9	8	0	0	0	1	0	0	0	3	0
May	13.2	S.	46	S.	2	3	10	6	5	18	8	8	4	0	14	11	6	8	7	0	0	0	0	0	0	0	2	0
June	11.9	S.	50	W.	4	2	4	6	4	15	13	9	7	0	6	14	10	10	13	0	0	1	3	0	0	0	11	0
July	12.0	S.	59	S.	2	4	11	2	9	15	10	4	7	0	7	16	8	15	12	0	0	0	2	0	0	0	9	0
August	13.4	SW.	41	NW.	1	5	14	1	4	14	16	5	3	0	8	9	14	13	9	0	0	1	0	0	0	0	11	0
September	11.9	S.	44	NW.	3	4	11	5	7	13	10	2	8	0	15	9	6	5	5	0	0	0	0	0	0	0	3	0
October	15.5	NW.	50	S.	7	3	3	2	2	16	10	8	18	0	17	7	7	8	7	0	0	0	3	0	0	0	2	0
November	16.5	SW.	51	NW.	6	4	2	0	0	9	14	16	15	0	7	14	9	7	6	3	1	1	4	0	0	4	1	0
December	14.8	NE.	50	NE.	8	6	14	3	3	5	9	11	11	0	5	11	15	14	10	7	4	0	7	4	0	17	0	0
Year	14.8	SW.	72	NE.	66	49	101	34	44	143	130	102	127	0	115	132	118	132	106	27	17	3	28	21	0	77	44	1

SAN FRANCISCO, CALIF.

[H_b=155 ft.; h_1=208 ft.; h_2=202 ft.; h_3=243 ft.]

January	8.6	NW.	40	NE.	1	11	10	2	8	4	1	9	17	0	18	5	8	8	6	1	1	0	3	0	0	0	0	0
February	8.7	SW.	45	SW.	1	4	6	1	7	5	9	17	7	0	9	4	15	16	15	0	0	0	2	0	0	0	1	0
March	9.3	W.	31	NW.	0	5	5	2	3	4	11	23	7	0	11	9	11	13	13	1	1	0	0	0	0	0	0	0
April	11.0	W.	38	NW.	0	4	0	0	2	1	15	28	10	0	25	3	2	2	1	0	0	0	0	0	0	0	0	0
May	10.4	W.	40	W.	1	1	0	0	2	3	15	32	5	4	21	2	8	2	2	0	0	0	1	0	0	0	0	0
June	10.0	W.	32	W.	0	0	0	0	1	0	15	42	2	0	16	11	3	2	1	0	0	0	3	0	0	0	0	0
July	9.8	SW.	30	W.	0	0	0	0	0	1	27	34	0	0	11	14	6	0	0	0	0	0	2	0	0	0	0	0
August	10.7	W.	34	W.	0	0	0	0	1	3	23	34	1	0	19	11	1	0	0	0	0	0	2	0	0	0	0	0
September	8.3	SW.	29	W.	0	1	0	0	3	2	23	30	1	0	21	8	1	0	0	0	0	0	2	0	1	0	0	0
October	7.1	W.	26	SE.	0	3	1	1	5	9	12	28	3	0	8	15	8	9	7	0	0	0	0	0	0	0	1	0
November	6.6	NW.	30	W.	0	8	1	6	5	7	5	15	13	0	17	6	7	4	4	0	0	1	2	0	0	0	1	0
December	7.5	SE.	38	SE.	0	16	5	7	9	5	5	8	7	0	8	4	19	17	17	0	0	0	3	0	0	0	0	0
Year	9.0	W.	45	SW.	3	53	28	19	46	44	161	302	73	4	184	92	89	73	66	2	2	1	20	0	1	0	3	0

SAN JOSE, CALIF.

[H_b=141 ft.; h_1=12 ft.; h_2=3 ft.; h_3=110 ft.]

January	5.6	S.	29	NE.	0	4	1	1	2	0	1	2	20	0	17	8	6	9	7	0	0	0	1	0	0	19	0	0
February	7.0	SE.	36	SW.	0	6	0	1	4	1	6	1	9	0	6	6	16	12	8	0	0	0	0	0	0	5	0	0
March	6.2	NW.	24	NW.	0	4	1	0	0	2	2	1	20	1	8	6	17	14	11	0	0	0	0	0	0	0	0	0
April	7.3	NW.	27	NW.	0	6	1	0	0	0	0	0	23	0	21	7	2	4	2	0	0	0	1	0	0	0	0	0
May	6.1	NW.	28	NW.	0	10	1	0	0	0	2	0	18	0	19	7	5	4	3	0	0	0	0	0	2	0	0	0
June	5.9	NW.	21	N.	0	9	0	0	0	0	0	0	21	0	17	12	1	1	0	0	0	0	0	0	6	0	0	0
July	5.5	NW.	20	NW.	0	2	0	0	0	0	1	0	28	0	24	7	0	0	0	0	0	0	0	0	1	0	0	0
August	5.8	NW.	21	NW.	0	8	0	0	0	0	0	1	22	0	26	3	2	0	0	0	0	0	0	0	1	0	0	0
September	4.4	NW.	20	N.	0	11	0	0	0	0	0	0	19	0	23	7	0	0	0	0	0	0	3	0	5	0	0	0
October	5.1	NW.	25	NE.	0	8	0	0	2	0	4	0	17	0	12	10	9	9	7	0	0	0	3	0	0	0	1	0
November	5.4	S.	27	SE.	0	6	1	0	3	1	0	3	16	0	16	9	5	5	4	0	0	0	3	0	0	1	0	0
December	5.7	SE.	43	SE.	1	0	1	2	3	4	2	3	16	0	7	7	17	15	13	0	0	0	5	0	0	2	0	0
Year	5.8	NW.	43	SE.	1	74	6	4	14	8	18	11	229	1	196	89	80	73	55	0	0	0	16	0	15	27	1	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

SAN JUAN, P. R.

[ϕ=18° 29′ N.; λ=66° 07′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a.m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.936	30.080	29.780	74.1	77.6	....	79.2	69.5	74.4	82	66	68	68	....	81	73	....	0.681	0.693	....	5.37	2.78	4.9	4.9	....	5.2
February	29.967	30.070	29.890	74.6	77.1	....	78.9	70.1	74.5	86	67	68	69	....	79	75	....	.677	.700	....	5.42	1.57	6.3	5.6	....	5.6
March	29.974	30.120	29.830	75.1	76.9	....	78.5	69.7	74.1	81	66	67	68	....	77	74	....	.667	.677	....	3.87	1.52	5.9	4.9	....	5.3
April	29.980	30.100	29.850	76.1	77.7	....	78.5	70.0	74.2	80	65	68	69	....	77	76	....	.696	.719	....	3.19	1.06	4.8	3.6	....	4.6
May	29.928	30.000	29.800	79.8	80.6	....	82.6	72.4	77.5	90	70	72	73	....	79	79	....	.795	.823	....	3.84	1.26	6.9	6.1	....	6.1
June	29.945	30.051	29.860	80.9	81.2	....	83.0	73.9	78.4	89	70	74	75	....	80	82	....	.844	.871	....	5.15	1.37	5.0	5.2	....	5.1
July	29.993	30.100	29.930	81.5	81.8	....	83.6	75.0	79.3	86	72	74	75	....	79	80	....	.847	.870	....	4.39	.89	4.2	4.5	....	4.7
August	29.916	30.040	29.820	81.9	82.2	....	84.2	75.0	79.6	87	72	73	74	....	76	77	....	.821	.847	....	8.16	1.52	3.9	4.5	....	4.7
September	29.873	29.967	29.710	81.5	82.5	....	84.3	75.1	79.7	88	73	74	74	....	77	77	....	.831	.851	....	6.32	1.24	5.2	2.0	....	6.0
October	29.847	29.970	29.690	80.0	82.4	....	84.9	73.1	79.0	90	70	72	74	....	77	75	....	.788	.827	....	3.28	.86	3.1	4.8	....	4.4
November	29.859	30.010	29.750	77.9	80.7	....	82.3	71.9	77.1	88	68	70	70	....	77	71	....	.728	.746	....	4.31	*4.09	3.7	3.8	....	4.1
December	29.962	30.088	29.790	75.0	78.3	....	79.6	70.9	75.2	81	68	70	71	....	84	78	....	.727	.752	....	12.65	1.62	6.4	5.2	....	5.3
Year	29.932	30.120	29.690	78.2	79.9	....	81.6	72.2	76.9	90	65	71	72	....	79	76	....	.758	.781	....	65.95	4.09	5.0	4.6	....	5.1

SAN LUIS OBISPO, CALIF.

[ϕ=35° 18′ N.; λ=120° 39′ W.]

January	29.873	30.170	29.250	40.6	56.5	54.4	60.6	36.5	48.6	76	24	31	30	35	71	43	51	0.180	0.181	0.208	4.48	1.58	3.0	3.4	2.7	3.5
February	29.868	30.140	29.540	46.4	56.9	55.3	59.6	43.1	51.4	73	32	40	40	42	79	56	63	.254	.253	.273	6.49	2.70	5.2	5.8	5.5	5.4
March	29.903	30.150	29.375	44.7	58.7	55.9	62.0	42.3	52.2	80	30	39	42	42	81	56	63	.243	.270	.276	3.46	1.83	4.3	4.8	4.8	5.0
April	29.870	30.160	29.680	46.9	60.4	56.0	62.8	43.9	53.4	86	33	37	40	42	74	52	62	.230	.259	.269	.27	.13	4.8	2.7	2.3	3.0
May	29.787	30.010	29.520	50.8	68.7	63.1	72.1	48.4	60.2	95	38	44	46	46	79	48	58	.287	.314	.319	.72	.58	5.5	2.0	2.7	2.7
June	29.759	29.940	29.630	53.8	73.7	67.2	76.8	50.8	63.8	100	44	48	50	50	83	47	56	.337	.366	.364	.00	.00	4.8	1.8	1.9	2.4
July	29.785	29.900	29.640	54.4	73.4	70.5	77.4	53.0	65.2	87	46	52	53	53	91	50	55	.383	.403	.409	T.	T.	8.4	1.0	.9	2.5
August	29.729	29.910	29.600	54.7	77.1	69.9	80.9	52.0	66.4	97	45	50	51	51	86	41	52	.355	.360	.369	.00	.00	6.5	.4	.5	1.4
September	29.707	29.830	29.600	55.9	78.3	72.0	81.8	52.3	67.0	76	44	49	52	52	84	42	52	.354	.384	.396	T.	T.	4.7	1.4	1.0	1.7
October	29.773	29.910	29.640	51.6	71.6	64.7	74.3	48.5	61.4	91	36	45	44	47	80	42	57	.307	.307	.335	.47	.42	3.3	2.2	2.8	2.9
November	29.864	30.120	29.420	46.2	64.8	58.4	67.1	42.5	54.8	82	32	38	38	42	76	43	59	.239	.242	.278	5.30	2.40	3.0	2.7	2.0	2.9
December	29.901	30.150	29.650	48.5	60.8	57.0	63.5	45.2	51.4	75	35	43	46	48	83	60	73	.283	.312	.335	6.64	2.03	4.6	5.2	5.5	5.4
Year	29.818	30.170	29.250	49.5	66.7	62.0	69.9	46.5	58.2	100	24	43	44	46	81	48	58	.288	.305	.319	27.83	2.70	4.8	2.8	2.7	3.2

SANTA FE, N. MEX.

[ϕ=35° 41′ N.; λ=105° 57′ W.]

January	23.161	23.520	22.770	21.1	33.1	30.7	38.4	17.7	28.0	51	5	14	18	16	74	52	53	0.082	0.097	0.091	0.64	0.21	2.4	3.6	3.8	3.9
February	23.173	23.510	22.870	25.7	38.3	37.6	43.1	21.2	32.2	58	−1	16	18	16	67	44	41	.092	.100	.089	.51	.51	5.1	5.8	5.6	5.7
March	23.156	23.400	22.840	27.8	42.1	42.6	46.9	25.9	36.4	63	−2	18	18	18	67	40	40	.099	.099	.101	.44	.30	4.0	4.7	5.9	4.8
April	23.145	23.520	22.850	34.6	50.5	52.1	56.2	32.4	44.3	69	19	25	24	16	68	38	32	.138	.141	.116	1.43	.84	3.3	5.3	5.6	4.7
May	23.234	23.460	22.890	46.5	62.9	64.7	69.2	42.6	55.9	80	28	30	27	23	52	28	23	.166	.152	.131	.29	.12	1.6	3.3	4.4	3.3
June	23.331	23.560	23.150	57.3	75.5	75.2	80.3	52.4	66.4	87	39	40	36	36	54	26	28	.249	.222	.219	.74	.36	1.9	3.6	4.7	3.3
July	23.395	23.560	23.170	59.7	78.3	76.0	83.0	57.4	70.2	88	54	46	44	44	62	31	35	.314	.291	.297	1.75	.64	3.3	3.6	6.7	4.6
August	23.391	23.511	23.263	59.7	78.0	75.5	83.1	58.3	70.7	90	54	46	46	46	63	35	40	.320	.321	.323	1.85	1.51	2.7	3.3	6.1	4.0
September	23.374	23.550	23.230	53.0	71.4	68.2	75.9	51.8	63.8	83	44	42	41	42	67	34	41	.266	.238	.268	1.07	.63	2.8	3.1	5.0	3.9
October	23.272	23.490	22.850	40.6	50.8	56.5	64.2	38.7	51.4	77	23	26	26	26	57	28	33	.144	.139	.142	.24	.12	1.4	1.6	2.3	1.9
November	23.238	23.470	22.860	29.7	41.1	37.9	45.6	26.1	35.8	60	14	23	25	25	75	56	62	.121	.134	.132	1.13	.54	4.0	4.5	3.4	4.3
December	23.231	23.470	22.950	27.3	39.4	35.3	43.3	24.7	34.0	51	12	20	24	23	73	52	60	.109	.126	.125	.20	.15	2.2	4.3	3.5	3.5
Year	23.258	23.560	22.770	40.2	55.9	54.3	60.8	37.4	49.1	90	−2	29	29	28	65	39	41	.175	.173	.170	10.29	1.51	2.9	3.9	4.8	4.0

SAULT STE. MARIE, MICH.

[ϕ=46° 30′ N.; λ=84° 21′ W.]

January	29.412	30.000	28.678	6.9	14.5	15.4	21.3	2.9	12.1	35	−20	5	11	13	88	86	91	0.055	0.074	0.078	1.44	0.37	7.0	7.5	7.0	7.8
February	29.346	29.910	28.480	8.6	17.3	16.0	23.2	1.9	12.6	38	−20	6	13	14	89	82	91	.064	.082	.084	1.91	.84	7.5	6.9	6.4	7.0
March	29.399	29.807	28.624	19.9	30.2	28.5	34.9	15.7	25.3	47	−10	17	23	23	87	73	80	.099	.124	.128	1.13	.44	5.6	5.3	4.1	5.1
April	29.338	29.795	28.400	34.9	41.1	39.8	44.1	30.4	37.2	63	19	30	32	32	83	71	75	.169	.184	.189	3.26	1.04	7.0	6.6	6.3	6.6
May	29.301	29.709	28.642	51.9	64.6	58.7	68.6	45.3	57.0	84	34	44	49	47	76	58	67	.293	.349	.325	2.79	.76	6.2	4.9	6.0	5.0
June	29.288	29.630	28.800	56.0	67.2	63.0	70.8	48.4	59.6	90	36	50	52	52	80	59	68	.364	.391	.390	2.60	1.95	5.7	4.7	4.6	5.0
July	29.311	29.640	28.760	58.9	67.7	63.6	71.4	51.9	61.6	85	42	54	56	54	86	70	74	.431	.459	.430	5.44	1.76	6.3	5.4	5.8	5.4
August	29.314	29.573	28.760	58.7	70.0	64.8	73.1	53.2	63.2	90	40	54	56	56	85	62	70	.428	.460	.445	1.64	.54	5.3	4.3	3.7	4.7
September	29.418	29.839	29.100	52.1	65.2	59.0	68.8	48.5	58.6	85	34	49	53	52	90	67	78	.361	.428	.404	1.13	.81	4.5	5.3	3.6	5.1
October	29.294	29.750	28.660	40.0	47.8	44.1	51.7	36.1	43.9	82	20	36	38	37	84	72	77	.221	.249	.237	2.06	.63	7.6	6.6	5.7	6.6
November	29.311	29.871	28.750	33.6	37.3	35.8	40.5	30.1	35.3	54	12	30	33	32	87	82	85	.182	.194	.187	3.55	1.04	8.3	8.9	8.0	8.5
December	29.316	29.840	28.700	15.5	18.5	20.0	26.3	12.1	19.2	54	−11	12	16	18	84	83	90	.082	.094	.102	2.30	.32	7.5	8.1	8.2	8.4
Year	29.337	30.000	28.400	36.4	45.1	42.4	49.6	31.4	40.5	90	−20	32	36	36	85	72	79	.229	.257	.249	29.92	1.95	6.5	6.2	5.8	6.3

* Nov. 30-Dec. 1.

Annual meteorological summary for the year ending December 31, 1922—Continued.

SAN JUAN, P. R.

[H_b=82 ft.; h_1=9 ft.; h_2=4 ft.; h_3=54 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	14.6	E.	42	E.	2	0	6	11	3	9	2	0	0	0	11	13	7	21	17	0	0	0	0	0	0	0	0	0
February	18.0	E.	42	E.	3	1	3	15	6	2	1	0	0	0	3	19	6	22	16	0	0	0	0	0	0	0	0	0
March	18.2	E.	46	E.	4	0	3	22	2	3	1	0	0	0	13	9	9	18	13	0	0	0	0	0	0	0	0	0
April	15.8	E.	33	E.	0	0	2	24	1	2	1	0	0	0	12	12	6	16	11	0	0	0	0	0	0	0	0	0
May	12.9	E.	34	E.	0	0	2	26	2	1	0	0	0	0	6	15	10	13	10	0	0	0	0	0	1	0	1	0
June	13.1	E.	34	E.	0	0	0	28	1	1	0	0	0	0	8	16	6	19	18	0	0	0	0	0	0	0	10	0
July	15.4	E.	32	E.	0	0	0	30	1	0	0	0	0	0	9	18	4	24	15	0	0	0	0	0	0	0	6	0
August	12.9	E.	39	E.	0	0	0	27	3	1	0	0	0	0	10	18	3	23	19	0	0	0	0	0	0	0	2	0
September	11.5	E.	39	E.	0	0	1	18	2	7	1	0	0	1	5	15	10	21	17	0	0	0	0	0	0	0	10	0
October	7.8	S.	29	E.	0	0	0	7	7	13	2	2	0	0	9	20	2	17	13	0	0	0	0	0	0	0	8	0
November	11.1	E.	42	E.	3	1	4	8	0	14	2	0	0	1	14	13	3	18	11	0	0	0	0	0	0	0	1	0
December	16.5	E.	48	E.	3	0	1	16	2	11	1	0	0	0	9	14	8	25	23	0	0	0	0	0	0	0	1	0
Year	14.0	E.	48	E.	15	2	22	232	30	64	11	2	0	2	109	182	74	237	183	0	0	0	0	0	1	0	39	0

SAN LUIS OBISPO, CALIF.

[H_b=201 ft.; h_1=32 ft.; h_2=23 ft.; h_3=40 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	4.1	N.	27	NE.	0	21	7	1	3	2	6	2	18	2	15	11	5	8	6	0	0	1	1	0	0	7	0	0
February	5.2	N.	38	S.	0	9	6	0	9	8	4	5	14	1	8	9	11	13	10	0	0	0	0	0	0	0	0	0
March	4.4	NW.	19	NW.	0	15	3	1	3	3	3	8	21	5	12	13	6	9	7	0	0	0	0	0	0	1	0	0
April	5.4	NW.	28	NE.	0	8	3	0	1	5	2	8	33	0	18	11	1	3	2	0	0	0	0	0	0	0	1	0
May	4.9	NW.	25	NW.	0	10	3	0	0	7	6	8	27	1	21	6	4	5	2	0	0	0	0	0	2	0	0	0
June	4.5	NW.	16	NW.	0	14	2	1	0	3	1	6	29	4	21	8	1	0	0	0	0	0	0	0	5	0	1	0
July	3.8	NW.	16	NE.	0	17	3	1	1	4	6	4	25	1	24	6	1	0	0	0	0	0	0	0	0	0	0	0
August	3.9	NW.	17	NE.	0	14	5	0	0	10	5	4	24	0	30	1	0	0	0	0	0	0	0	0	4	0	0	0
September	3.2	N.	14	NW.	0	15	6	0	4	4	9	6	15	1	27	3	0	0	0	0	0	0	0	0	4	0	0	0
October	3.9	N.	17	W.	0	18	8	1	3	9	2	1	19	1	17	13	1	3	1	0	0	0	1	0	3	0	1	0
November	4.1	N.	17	SE.	0	19	3	0	2	9	1	5	18	3	20	5	5	5	4	0	0	1	0	0	0	1	1	0
December	4.0	N.	27	NE.	0	14	12	0	5	8	3	2	14	4	11	7	13	15	14	0	0	0	0	0	0	0	0	0
Year	4.3	NW.	38	S.	0	174	61	5	31	72	48	59	257	23	224	93	48	62	46	0	0	2	2	0	18	9	4	0

SANTA FE, N. MEX.

[H_b=7,013 ft.; h_1=38 ft.; h_2=31 ft.; h_3=53 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	8.6	N.	36	SE.	0	15	16	1	13	5	5	7	0	0	15	10	6	4	4	6	4	0	0	5	0	30	0	0
February	8.9	N.	45	S.	1	9	8	10	4	0	12	9	4	0	9	8	11	2	1	7	2	0	0	7	0	24	0	0
March	9.3	N.	39	S.	0	9	13	5	8	4	14	4	5	0	12	11	8	4	4	8	4	0	0	4	0	25	0	0
April	8.0	SW.	42	SW.	1	8	4	8	12	2	13	7	5	1	14	7	9	8	6	3	1	1	0	0	0	12	4	0
May	7.7	SW.	35	SW.	0	8	7	12	14	3	4	8	6	0	18	11	2	4	2	1	0	0	0	0	0	2	7	0
June	5.8	SE.	26	NE.	0	3	14	11	16	3	6	4	3	0	16	14	0	5	3	0	0	1	0	0	0	0	16	0
July	5.7	E.	28	NE.	0	3	9	17	10	7	6	4	2	4	11	16	4	10	7	0	0	1	0	0	0	0	18	0
August	4.9	E.	24	NE.	0	3	11	20	12	4	8	0	0	4	11	19	1	11	5	0	0	2	0	0	1	0	14	0
September	5.0	E.	36	NE.	0	7	9	15	10	6	6	1	3	3	16	10	4	8	5	0	0	0	0	0	0	0	9	0
October	5.5	E.	24	NW.	0	2	13	12	10	4	11	2	3	5	25	4	2	3	3	3	1	0	0	0	0	6	3	0
November	6.1	SE.	33	W.	0	5	14	8	17	5	5	2	3	1	17	3	10	8	6	12	8	0	0	2	0	24	0	0
December	5.9	N.	25	N.	0	16	21	4	9	1	3	4	3	1	17	8	6	3	2	2	0	0	0	0	0	28	0	0
Year	6.8	SE.	45	S.	2	88	139	123	135	44	93	52	37	19	181	121	63	70	48	42	20	5	0	18	1	151	71	0

SAULT STE. MARIE, MICH.

[H_b=614 ft.; h_1=11 ft.; h_2=3 ft.; h_3=52 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	7.1	SE.	48	NW.	1	3	5	7	22	3	8	3	8	3	2	9	20	16	10	22	16	0	1	28	0	31	0	0
February	8.5	NW.	42	NW.	2	1	3	7	8	1	11	7	16	2	4	9	15	20	11	22	20	0	4	22	0	28	0	0
March	8.8	SE.	38	NW.	0	4	5	5	17	2	7	8	14	0	14	7	10	8	5	8	5	0	2	9	0	29	0	0
April	9.0	NW.	35	N.	0	3	5	4	16	0	4	11	16	1	7	8	15	14	9	8	8	1	1	1	0	16	3	0
May	6.2	SE.	28	N.	0	0	4	12	19	4	5	11	6	1	9	13	9	11	10	0	0	0	0	0	0	0	3	0
June	6.4	NW.	34	NW.	0	2	2	10	13	4	5	8	15	1	10	10	10	5	3	0	0	0	0	0	0	0	1	0
July	6.2	NW.	36	SE.	0	0	1	11	16	2	5	10	14	3	11	10	10	13	13	0	0	0	0	0	0	0	2	1
August	5.4	NW.	31	NW.	0	5	7	5	14	4	4	3	16	4	11	14	6	10	7	0	0	0	3	0	1	0	4	0
September	5.6	SE.	34	NW.	0	4	3	6	21	4	4	4	12	2	11	11	8	10	5	0	0	0	4	0	0	0	3	0
October	8.2	NW.	46	NW.	1	5	10	7	15	3	5	2	13	2	7	8	16	14	7	7	5	0	1	0	0	12	1	0
November	8.9	NW.	38	NW.	0	5	6	4	14	3	8	7	13	0	2	5	23	17	15	9	6	0	1	8	0	18	0	0
December	10.3	E.	52	NW.	3	0	3	18	13	1	16	4	7	0	3	3	25	24	19	23	23	0	0	20	0	31	0	0
Year	7.6	SE.	52	NW.	7	32	54	96	188	31	82	78	150	19	91	107	167	162	114	99	83	1	17	88	1	165	17	1

Annual meteorological summary for the year ending December 31, 1922—Continued.

SAVANNAH, GA.

[ϕ=32° 05′ N.; λ=81° 05′ W.]

Month.	Pressure.			Temperature.								Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	30.116	30.440	29.290	44.2	52.4	48.8	56.4	41.5	49.0	78	27	39	40	40	82	67	74	0.255	0.278	0.271	3.01	0.73	6.6	5.6	5.0	6.0
February	30.084	30.480	29.590	53.6	62.9	57.9	66.9	50.5	58.7	80	28	50	53	53	90	75	84	.391	.448	.426	6.64	3.35	6.4	7.9	4.9	6.8
March	30.068	30.340	29.620	56.5	66.7	60.4	69.8	52.6	61.2	83	36	51	53	52	82	63	75	.396	.426	.404	4.68	1.76	4.2	4.4	4.1	4.3
April	30.049	30.331	29.670	63.7	74.9	68.2	78.4	59.5	69.0	90	44	58	62	60	82	66	76	.500	.578	.528	1.07	.62	3.8	4.1	3.6	3.7
May	29.901	30.253	29.530	71.5	79.0	73.2	82.2	66.4	74.3	94	57	66	67	67	83	69	81	.640	.669	.656	7.86	2.03	6.2	6.9	7.6	6.4
June	29.946	30.120	29.760	77.4	86.0	78.2	88.9	71.6	80.2	95	66	72	71	72	83	62	81	.776	.758	.782	5.85	1.99	4.5	5.5	7.3	5.2
July	30.008	30.170	29.850	78.4	88.0	79.4	90.9	73.1	82.0	97	69	73	73	72	84	61	80	.812	.815	.800	5.21	1.52	4.5	5.7	7.0	5.3
August	29.934	30.100	29.730	74.6	82.4	76.2	85.8	70.6	78.2	96	66	71	72	70	89	72	81	.760	.797	.731	8.18	4.04	5.7	6.2	6.0	5.8
September	29.973	30.150	29.820	72.1	81.1	75.9	84.2	68.5	76.4	97	61	68	68	69	87	66	79	.688	.703	.712	7.16	4.28	5.7	6.2	4.1	5.8
October	29.928	30.140	29.620	64.6	73.8	68.6	76.4	61.7	69.0	89	54	60	61	62	87	66	80	.547	.563	.569	4.94	1.69	5.3	6.5	5.4	6.3
November	30.082	30.410	29.460	54.5	66.5	60.8	69.4	52.1	60.8	82	33	49	49	50	81	54	70	.377	.381	.390	.01	.01	4.3	4.5	2.3	4.1
December	30.077	30.400	29.580	52.4	61.7	57.1	64.9	49.5	57.2	79	36	47	50	50	84	68	78	.346	.381	.379	3.65	1.61	6.3	6.0	5.3	6.6
Year	30.014	30.480	29.290	63.6	73.0	67.1	76.2	59.8	68.0	97	27	59	60	60	84	66	78	.541	.566	.554	58.26	4.28	5.3	5.8	5.2	5.5

SCRANTON, PA.

[ϕ=41° 24′ N.; λ=75° 42′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.288	29.780	28.180	19.8	27.5	25.2	32.1	16.1	24.1	51	−2	15	18	17	82	68	70	0.093	0.107	0.099	1.96	1.07	5.5	5.6	4.5	5.4
February	29.236	29.700	28.520	27.5	33.6	32.5	39.6	23.4	31.5	67	−7	22	24	23	80	68	68	.131	.146	.131	1.55	.56	7.9	7.0	6.1	6.6
March	29.225	29.770	28.420	34.2	41.9	39.9	46.9	30.5	38.7	73	14	29	31	29	80	68	65	.168	.188	.171	4.02	.86	7.4	7.1	6.1	6.7
April	29.206	29.630	28.350	44.9	52.5	50.7	58.4	38.8	48.6	82	26	38	39	36	77	62	58	.242	.257	.230	3.44	1.30	5.9	6.3	6.1	6.1
May	29.148	29.630	28.510	59.3	69.5	65.1	73.9	50.6	62.2	87	33	50	53	48	73	57	58	.369	.404	.352	2.20	.91	5.2	5.8	5.5	5.5
June	29.127	29.348	28.630	66.1	74.4	70.0	78.4	59.0	68.7	88	48	61	63	60	84	68	72	.543	.577	.534	7.06	2.34	7.3	6.6	7.3	6.8
July	29.191	29.387	28.880	68.9	76.9	73.0	81.3	61.4	71.4	95	49	62	63	60	78	63	66	.562	.581	.534	4.48	2.11	5.6	7.3	6.7	6.2
August	29.160	29.500	28.800	64.2	74.8	70.6	79.2	58.2	68.7	94	49	58	60	58	82	60	66	.497	.518	.501	2.56	.74	6.5	6.4	6.1	6.3
September	29.284	29.607	28.930	58.8	72.7	66.4	76.9	54.2	65.6	93	34	54	55	55	84	56	68	.435	.455	.458	1.18	.83	5.3	4.7	3.4	4.7
October	29.151	29.571	28.680	48.4	60.1	55.4	64.7	43.9	54.3	87	26	43	45	42	82	59	63	.303	.327	.296	3.56	1.62	5.8	4.9	4.3	5.2
November	29.193	29.620	28.560	38.8	45.2	43.0	49.2	35.7	42.4	62	25	34	36	33	81	72	68	.200	.223	.196	.76	.24	8.0	7.3	6.7	7.5
December	29.259	29.712	28.660	27.8	32.8	32.2	38.0	23.6	30.8	55	7	24	26	25	85	76	74	.135	.147	.139	2.31	.73	8.0	7.0	5.5	7.0
Year	29.206	29.780	28.180	46.6	55.2	52.0	59.9	41.3	50.6	95	−7	41	43	40	67	65	66	.306	.328	.303	35.08	2.34	6.5	6.3	5.7	6.2

SEATTLE, WASH.

[ϕ=47° 38′ N.; λ=122° 20′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	30.037	30.581	29.540	34.1	37.2	37.6	39.8	31.2	35.5	50	16	31	32	32	89	80	80	0.178	0.181	0.185	1.89	0.43	6.7	6.9	5.3	6.9
February	29.883	30.352	29.240	35.8	40.4	42.0	44.8	33.9	39.4	54	22	30	31	31	79	70	67	.170	.174	.174	1.74	.65	6.5	7.1	7.1	7.3
March	29.877	30.360	29.449	37.6	43.4	44.8	47.0	36.0	41.5	56	31	34	34	34	86	69	68	.193	.193	.198	4.45	1.16	7.3	8.4	7.9	8.3
April	30.027	30.411	29.530	41.2	48.2	50.4	53.4	39.8	46.6	71	34	38	37	37	88	66	61	.229	.218	.219	2.53	.70	8.2	7.3	6.4	7.4
May	29.980	30.330	29.610	47.6	57.4	61.0	62.8	46.2	54.5	89	36	42	40	40	82	56	50	.264	.256	.255	1.08	.46	6.8	5.4	4.6	5.4
June	29.927	30.206	29.651	52.7	61.7	68.2	69.7	52.0	60.8	81	49	48	48	47	84	62	49	.330	.337	.325	.03	.02	5.8	5.3	3.4	5.0
July	29.984	30.170	29.730	53.9	63.8	71.4	72.9	52.9	62.9	87	48	50	51	50	88	65	49	.366	.374	.362	.00	.00	5.5	3.3	1.0	3.4
August	29.897	30.090	29.643	56.4	63.2	68.6	70.3	55.1	62.7	84	52	53	53	52	87	71	59	.398	.406	.397	1.17	.60	5.7	5.3	4.5	5.6
September	29.909	30.270	29.540	53.9	61.5	65.1	67.3	52.2	59.8	78	49	51	51	51	90	70	62	.373	.375	.373	1.19	.39	4.8	5.9	5.3	5.9
October	29.907	30.304	29.500	50.1	54.6	55.8	58.5	48.5	53.5	73	34	48	48	47	93	79	75	.336	.333	.326	2.37	.62	7.6	7.4	7.7	8.0
November	30.036	30.480	29.549	40.8	45.0	46.6	49.2	38.0	43.6	57	31	37	39	39	87	77	75	.222	.239	.236	1.45	.55	5.4	6.8	5.6	6.9
December	29.851	30.310	29.150	37.1	39.8	40.0	42.6	34.3	38.4	56	19	33	34	34	85	78	78	.198	.202	.205	7.37	1.85	8.8	8.4	7.7	8.4
Year	29.943	30.581	29.150	45.1	51.4	54.3	56.5	43.3	49.9	89	16	41	42	41	86	70	64	.271	.274	.271	25.27	1.85	6.6	6.5	5.5	6.5

SHERIDAN, WYO.

[ϕ=44° 48′ N.; λ=106° 57′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	26.082	26.550	25.500	9.1	19.1	13.7	24.0	−0.9	11.6	47	−29	3	9	6	77	62	71	0.057	0.066	0.061	1.27	0.62	4.9	4.7	5.1	4.7
February	26.072	26.572	25.500	2.7	18.5	17.7	24.7	−1.8	11.4	54	−19	−1	8	8	82	61	65	.044	.063	.065	.21	.12	5.1	5.3	5.2	5.4
March	26.016	26.480	25.590	22.6	39.6	39.6	44.2	20.2	32.2	64	−13	18	20	23	82	45	51	.102	.110	.124	.34	.12	4.3	4.3	5.8	4.6
April	26.049	26.400	25.500	32.9	47.2	47.0	51.0	29.6	40.3	72	10	27	29	30	79	54	55	.150	.164	.166	3.47	1.10	7.8	6.2	6.7	6.7
May	26.078	26.520	25.435	44.6	50.4	58.1	63.8	40.9	52.4	88	33	37	37	37	76	47	50	.226	.229	.229	3.04	1.61	6.0	6.0	6.6	5.8
June	26.110	26.460	25.892	54.6	75.1	76.0	79.1	50.2	64.6	99	31	48	49	50	80	44	44	.346	.366	.381	2.21	.86	2.9	3.2	4.0	3.4
July	26.180	26.393	25.772	55.0	76.0	76.3	80.3	51.6	66.0	95	40	50	51	52	85	45	46	.370	.381	.388	2.11	1.24	4.6	3.7	4.9	4.4
August	26.126	26.380	25.900	57.6	82.9	82.4	86.6	55.6	71.1	98	46	51	52	51	80	36	35	.378	.391	.378	1.65	1.04	3.2	2.8	4.1	3.3
September	26.152	26.440	25.807	44.7	75.7	71.9	79.9	41.7	60.8	91	31	38	40	41	78	30	35	.229	.251	.260	.08	.07	2.6	1.8	2.9	2.4
October	26.123	26.439	25.650	33.9	60.4	55.1	64.4	30.2	47.3	89	12	25	26	27	71	32	40	.136	.141	.149	1.35	.71	3.9	4.6	4.5	4.5
November	26.168	26.690	25.630	26.5	39.9	34.8	42.8	22.8	32.8	61	3	22	26	26	82	59	69	.119	.142	.141	1.16	.52	4.5	5.4	5.6	5.3
December	26.035	26.401	25.560	10.8	24.0	20.8	28.9	5.2	17.0	61	−25	6	11	11	78	58	67	.066	.082	.084	1.02	.60	4.1	6.1	5.8	6.0
Year	26.099	26.690	25.435	32.9	51.5	49.4	55.8	28.8	42.3	99	−29	27	30	30	79	48	52	.185	.199	.202	17.91	1.61	4.5	4.5	5.1	4.7

Annual meteorological summary for the year ending December 31, 1922—Continued.

SAVANNAH, GA.

[H_b=65 ft.; h_t=150 ft.; h_r=143 ft.; h_a=194 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	12.4	NE.	50	W.	2	9	12	3	2	10	11	7	8	0	11	7	13	7	7	0	0	0	3	1	0	6	0	0
February	12.3	SW.	54	W.	1	1	7	7	6	10	16	3	6	0	8	4	16	11	10	0	0	0	2	0	0	2	4	0
March	14.0	S.	41	S.	1	2	6	6	10	16	5	7	10	0	14	11	6	10	9	0	0	0	2	0	0	0	3	0
April	12.7	S.	35	SW.	0	8	8	3	5	14	15	5	2	0	17	7	6	4	4	0	0	0	1	0	1	0	0	0
May	12.2	E.	45	W.	2	4	11	8	11	7	5	10	6	0	6	12	13	16	15	0	0	0	0	0	3	0	7	0
June	9.5	S.	48	W.	1	5	5	2	4	18	14	10	2	0	10	10	10	10	9	0	0	0	0	0	13	0	13	0
July	10.4	SW.	46	SW.	1	3	2	0	0	12	23	20	1	1	8	18	5	15	11	0	0	0	0	0	21	0	17	0
August	9.1	SW.	39	NW.	0	4	13	5	1	16	14	6	3	0	12	5	14	13	13	0	0	0	0	0	7	0	9	0
September	10.5	NE.	36	NE.	0	13	23	5	5	8	3	1	2	0	6	12	12	8	7	0	0	0	0	0	3	0	4	0
October	10.7	NE.	32	NE.	0	7	25	10	0	9	2	6	3	0	8	7	16	8	6	0	0	0	1	0	0	0	3	0
November	11.1	NE.	48	NW.	1	13	19	5	1	8	6	5	3	0	14	11	5	1	0	0	0	0	0	0	0	0	0	0
December	11.8	SW.	42	W.	1	5	17	0	0	9	13	11	7	0	8	5	18	14	9	0	0	0	6	0	0	0	1	0
Year	11.4	NE.	54	W.	10	74	148	54	45	137	127	91	53	1	122	109	134	117	100	0	0	0	15	1	48	8	61	0

SCRANTON, PA.

[H_b=805 ft.; h_t=111 ft.; h_r=102 ft.; h_a=119 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	7.9	SW.	40	NW.	1	8	9	1	0	15	12	6	11	0	10	12	9	7	6	12	4	0	0	14	0	30	0	0
February	7.5	SW.	32	SW.	0	6	4	3	5	8	15	4	11	0	5	9	14	11	6	14	4	0	0	6	0	22	0	0
March	7.7	NW.	33	SW.	0	15	7	3	6	4	10	4	13	0	6	10	15	13	12	11	6	1	0	2	0	19	1	0
April	8.4	NW.	48	SW.	2	3	6	0	3	11	11	10	16	0	8	12	10	14	10	5	1	1	0	0	0	5	2	0
May	6.5	N.	31	SW.	0	8	8	2	9	11	7	3	13	1	7	16	8	9	7	0	0	0	0	0	0	0	1	0
June	6.1	SW.	37	W.	0	4	8	2	6	5	23	2	10	0	3	12	15	15	11	0	0	0	0	0	0	0	10	0
July	5.5	SW.	24	S.	0	7	9	2	11	11	12	2	8	0	5	13	13	7	6	0	0	1	0	0	1	0	5	0
August	5.2	N.	34	SW.	0	9	10	1	3	11	13	2	12	1	7	11	13	13	11	0	0	0	0	0	3	0	6	0
September	4.7	N.	22	NW.	0	17	8	2	9	4	9	2	9	0	14	8	8	3	3	0	0	0	0	0	1	0	3	0
October	7.0	SW.	27	SW.	0	12	8	0	3	13	11	3	11	1	11	11	9	7	7	1	0	0	0	0	0	2	2	0
November	6.9	SW.	33	SW.	0	4	6	1	2	13	12	10	11	1	4	6	20	9	6	6	2	0	1	0	0	11	0	0
December	7.2	S.	34	SW.	0	12	7	1	4	7	14	4	13	0	3	13	15	13	9	10	7	0	2	7	0	25	0	0
Year	6.7	SW.	48	SW.	3	105	90	18	61	113	149	52	138	4	83	133	149	121	94	59	24	3	3	29	5	114	30	0

SEATTLE, WASH.

[H_b=125 ft.; h_t=215 ft.; h_r=209 ft.; h_a=250 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	9.5	SE.	45	S.	1	14	5	3	23	15	0	0	2	0	6	7	18	12	10	6	3	0	6	3	0	16	0	0
February	9.9	SE.	40	W.	1	7	8	5	13	12	4	0	7	0	5	4	19	14	8	6	4	0	1	0	0	7	0	0
March	10.4	SE.	48	S.	3	7	4	3	20	17	6	1	4	0	0	8	23	24	18	6	3	0	0	0	0	3	0	0
April	9.9	S.	34	S.	0	11	2	1	13	12	9	7	5	0	1	12	17	16	9	2	2	1	0	0	0	0	0	0
May	10.1	S.	37	SW.	0	12	3	2	14	6	16	3	5	1	9	11	11	13	8	0	0	1	0	0	0	0	0	0
June	7.5	N.	25	SW.	0	9	9	0	5	12	5	9	11	0	10	10	10	2	0	0	0	0	0	0	0	0	0	0
July	6.0	NW.	23	SW.	0	7	4	1	4	11	3	9	20	3	18	11	2	0	0	0	0	0	4	0	0	0	0	0
August	7.3	S.	26	S.	0	14	9	1	2	18	1	2	15	0	8	13	10	7	6	0	0	0	1	0	0	0	1	0
September	8.6	S.	38	SW.	0	7	7	1	8	10	12	4	10	1	5	16	9	9	6	0	0	0	6	0	0	0	0	0
October	6.4	S.	31	S.	0	14	8	3	12	8	5	1	10	1	4	5	22	12	8	0	0	0	5	0	0	0	0	0
November	6.2	SE.	42	S.	1	12	8	4	18	12	3	0	3	0	5	9	16	9	7	0	0	0	9	0	0	2	0	0
December	12.4	S.	54	SW.	4	3	9	5	16	22	6	1	0	0	3	4	24	22	20	8	6	0	0	3	0	14	0	0
Year	8.7	S.	54	SW.	10	117	76	29	148	155	70	37	92	6	74	110	181	140	100	28	18	2	32	6	0	42	1	0

SHERIDAN, WYO.

[H_b=3,790 ft.; h_t=10 ft.; h_r=3 ft.; h_a=47 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	4.8	NW.	29	NW.	0	5	3	3	5	17	3	1	25	0	14	7	10	12	6	13	12	0	0	20	0	31	0	0
February	4.7	NW.	40	SW.	1	4	6	2	7	12	5	1	19	0	8	10	10	7	2	11	7	0	0	22	0	28	0	0
March	5.1	NW.	30	NW.	0	5	6	5	5	9	6	3	21	2	11	14	6	6	4	7	6	0	0	3	0	30	0	0
April	7.9	NW.	29	SE.	0	2	0	5	11	9	10	3	19	1	4	13	13	12	10	8	7	0	0	0	0	20	0	0
May	8.5	NW.	46	NW.	1	1	3	5	4	2	12	5	27	3	4	16	11	15	7	1	0	1	0	0	0	0	7	0
June	4.8	NW.	33	NW.	0	7	6	10	4	8	5	1	14	5	17	10	3	13	10	0	0	1	0	0	2	1	9	0
July	4.1	NW.	30	NW.	0	3	1	6	7	14	8	2	13	8	12	16	3	20	8	0	0	0	0	0	6	0	14	0
August	4.1	S.	37	SW.	0	2	6	6	8	17	9	2	8	4	20	9	2	11	7	0	0	0	0	0	10	0	1	0
September	4.1	S.	42	SW.	1	4	8	5	7	18	6	0	10	2	23	5	2	2	1	0	0	0	0	0	3	1	3	0
October	4.6	NW.	26	N.	0	0	3	1	4	20	11	2	18	3	11	14	6	9	7	3	3	0	0	0	0	18	0	0
November	4.7	NW.	40	NW.	1	0	4	1	5	13	11	6	20	0	9	10	11	9	6	9	8	0	0	4	0	29	0	0
December	4.6	NW.	35	NW.	0	3	4	2	3	16	12	3	19	0	7	15	9	9	6	10	9	0	1	15	0	31	0	0
Year	5.2	NW.	46	NW.	4	36	50	51	70	155	98	29	213	28	140	139	86	125	74	62	52	2	1	64	21	189	45	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

SHREVEPORT, LA.

[ϕ=32° 30′ N.; λ=93° 40′ W.]

Month.	Pressure.			Temperature.								Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.902	30.250	29.230	40.2	45.6	46.8	51.5	37.7	44.6	73	29	36	38	40	85	79	79	0.225	0.245	0.261	5.73	2.00	7.8	7.5	7.8	7.8
February	29.835	30.320	29.410	48.5	57.3	56.8	62.2	45.8	54.0	80	31	44	46	45	85	69	67	.315	.334	.317	5.40	1.44	6.6	5.3	4.8	5.7
March	29.776	30.140	29.260	49.5	60.4	61.2	66.6	47.6	57.1	82	26	44	46	45	82	63	60	.314	.345	.332	9.31	3.80	4.4	4.7	4.1	4.7
April	29.742	30.260	29.310	61.6	72.2	71.2	77.2	58.4	67.8	86	46	57	60	60	84	69	71	.477	.543	.543	6.97	2.44	5.3	5.1	4.9	5.1
May	29.648	29.890	29.420	69.2	79.3	78.7	84.3	66.3	75.3	90	58	65	68	66	88	71	67	.629	.704	.649	4.04	1.27	5.4	3.7	3.8	4.5
June	29.728	29.880	29.580	74.7	85.2	83.3	89.9	71.6	80.8	97	64	70	72	70	86	67	67	.736	.798	.748	3.77	1.04	3.4	3.5	4.6	3.9
July	29.778	29.980	29.640	75.1	86.4	84.4	91.1	72.6	81.8	98	63	71	73	71	88	65	66	.767	.813	.766	4.09	3.05	4.1	3.2	3.9	3.8
August	29.713	29.840	29.568	74.8	87.3	85.1	91.7	72.5	82.1	98	65	71	71	72	88	60	65	.757	.769	.775	2.04	.87	3.1	2.4	3.1	3.0
September	29.765	29.930	29.600	69.8	85.2	81.4	89.1	68.6	78.8	96	60	65	65	65	86	52	60	.636	.629	.636	1.36	.94	2.9	2.3	2.6	2.9
October	29.730	30.070	29.480	56.8	75.6	71.1	79.6	54.4	67.0	89	44	51	51	50	82	45	50	.396	.400	.386	.45	.28	2.4	2.3	2.2	2.8
November	29.882	30.120	29.520	49.7	63.6	61.1	68.3	48.3	58.3	85	36	44	49	49	83	61	67	.307	.358	.358	2.01	1.66	4.3	4.3	3.7	4.6
December	29.824	30.150	29.410	49.2	58.1	57.2	63.7	45.9	54.8	83	26	46	49	48	87	73	76	.340	.374	.369	2.59	1.56	6.5	5.0	4.5	5.9
Year	29.777	30.320	29.230	59.9	71.4	69.8	76.3	57.5	66.9	98	26	55	57	57	85	64	66	.492	.526	.512	47.76	3.80	4.7	4.1	4.2	4.6

SIOUX CITY, IOWA.

[ϕ=42° 29′ N.; λ=96° 24′ W.]

January	28.912	29.570	28.300	14.8	21.8	22.3	27.8	10.5	19.2	46	−9	10	14	15	81	72	72	0.072	0.088	0.092	1.36	0.62	4.8	5.6	4.4	5.3
February	28.891	29.620	28.144	12.6	19.7	21.3	28.0	8.5	18.2	48	−8	7	12	14	77	69	72	.068	.081	.088	.58	.14	4.4	5.5	5.8	4.7
March	28.792	29.490	28.180	30.9	40.8	41.8	47.4	28.6	38.0	65	4	26	29	30	80	64	64	.144	.162	.120	1.69	.88	6.8	6.3	6.4	6.1
April	28.771	29.270	28.140	42.6	53.8	56.3	59.3	41.1	50.2	73	30	35	36	37	75	56	53	.209	.250	.239	3.08	2.19	8.1	6.9	6.3	6.8
May	28.709	29.070	28.250	56.5	67.7	68.0	71.6	53.9	62.8	83	44	48	47	47	74	51	50	.348	.343	.335	2.23	.75	5.9	7.5	5.1	6.1
June	28.747	29.150	28.370	66.2	78.7	80.7	84.0	62.1	73.0	98	45	57	56	56	71	47	45	.466	.454	.464	2.03	.56	4.2	4.8	4.1	4.7
July	28.799	29.110	28.300	65.1	77.0	78.9	81.4	62.0	71.7	92	50	59	59	59	80	56	53	.501	.514	.515	5.97	3.25	6.5	6.1	3.6	5.8
August	28.761	28.927	28.464	67.1	81.8	82.2	85.8	65.1	75.4	97	51	61	64	63	81	55	53	.542	.594	.591	2.92	2.07	4.0	4.4	2.6	3.8
September	28.832	29.246	28.462	58.4	74.8	73.8	79.7	56.5	68.1	99	45	52	53	52	78	48	48	.398	.418	.405	.49	.34	4.3	3.4	3.6	3.7
October	28.764	29.160	28.280	46.9	63.1	60.7	67.8	44.4	56.1	88	23	39	39	37	75	43	43	.249	.251	.233	1.11	.74	4.0	4.0	2.9	3.8
November	28.826	29.211	28.110	37.4	44.6	42.4	48.3	34.2	41.2	64	21	32	34	33	80	67	71	.189	.200	.198	4.41	1.50	5.6	5.5	5.5	5.8
December	28.845	29.370	28.230	18.3	25.6	25.8	32.7	13.5	23.1	53	−12	12	14	15	76	61	63	.086	.092	.096	.07	.06	4.0	5.2	3.3	5.2
Year	28.804	29.620	28.110	43.1	54.1	54.5	59.5	40.0	49.8	99	−12	36	38	38	77	57	57	.273	.286	.286	25.94	3.25	5.2	5.4	4.5	5.2

SPOKANE, WASH.

[ϕ=47° 40′ N.; λ=117° 25′ W.]

January	28.087	28.710	27.580	18.2	22.9	24.3	27.6	13.5	20.6	40	−12	15	19	20	87	85	84	0.091	0.107	0.112	1.19	0.25	7.6	8.8	7.8	8.4
February	27.952	28.480	27.340	21.5	28.6	32.9	34.6	17.7	26.2	49	−9	16	19	20	79	68	60	.097	.108	.112	1.04	.46	7.1	7.1	7.0	6.3
March	27.912	28.490	27.490	31.7	40.8	42.4	45.1	28.7	36.9	56	6	27	30	30	82	67	63	.148	.171	.171	1.40	.29	5.9	6.8	7.1	6.7
April	27.988	28.310	27.440	37.4	49.7	51.4	54.2	35.0	44.6	72	25	33	34	34	84	58	54	.190	.199	.194	1.44	.56	6.5	7.0	7.1	6.9
May	27.982	28.390	27.610	44.2	61.8	64.8	66.4	42.8	54.6	85	29	34	35	33	68	39	32	.201	.209	.193	.16	.14	4.5	5.8	5.6	5.3
June	27.897	28.200	27.710	57.5	77.8	82.3	83.7	56.0	69.8	93	49	44	42	39	61	30	23	.284	.272	.238	.02	.02	3.2	4.1	3.7	3.6
July	27.948	28.150	27.550	60.4	82.2	86.3	87.6	58.7	73.2	101	51	42	40	36	54	24	18	.277	.255	.217	.03	.02	3.1	2.8	1.9	2.6
August	27.918	28.100	27.620	59.7	75.5	82.4	84.7	57.2	71.0	98	49	45	46	43	62	34	29	.308	.312	.286	.65	.24	4.2	3.6	5.0	4.5
September	27.955	28.290	27.560	52.1	70.6	74.6	76.2	49.1	62.6	92	37	43	42	40	72	38	31	.277	.275	.251	.64	.23	3.8	4.4	4.6	4.4
October	27.957	28.320	27.505	43.7	58.3	60.8	63.2	40.1	51.6	77	28	38	40	40	82	54	50	.234	.252	.248	.83	.30	3.2	4.5	5.1	5.0
November	28.141	28.560	27.590	32.0	36.7	37.4	39.8	29.1	34.4	52	24	29	30	30	88	77	77	.159	.166	.170	.30	.18	7.6	7.7	7.3	8.2
December	27.956	28.380	27.280	20.7	24.9	25.1	28.1	16.6	22.4	49	−15	19	21	22	94	86	89	.120	.128	.131	3.31	.64	7.7	8.4	8.2	8.3
Year	27.974	28.710	27.280	39.9	52.5	55.4	57.6	37.0	47.3	101	−15	32	33	32	76	55	51	.199	.204	.194	11.51	.64	5.4	5.9	5.9	5.8

SPRINGFIELD, ILL.

[ϕ=39° 48′ N.; λ=89° 39′ W.]

January	29.505	30.090	28.820	20.0	28.0	26.6	33.7	16.8	25.2	56	−4	16	18	19	82	65	73	0.094	0.110	0.111	1.83	1.30	5.2	4.8	3.5	4.2
February	29.425	30.020	28.900	27.7	35.3	34.3	41.0	23.7	32.4	71	8	23	24	24	81	63	65	.131	.144	.144	.86	.29	4.7	5.4	3.9	4.8
March	29.338	29.790	28.700	38.6	46.9	44.7	50.9	35.4	43.2	74	20	35	37	36	86	69	74	.212	.231	.225	6.81	2.63	7.1	7.0	7.1	6.6
April	29.328	29.750	28.476	48.9	59.0	57.4	64.1	45.0	54.6	81	34	43	44	46	82	61	68	.297	.322	.330	5.20	1.28	5.9	5.7	6.0	5.7
May	29.252	29.600	28.750	61.7	72.4	70.1	76.6	57.5	67.0	86	49	55	54	56	79	55	62	.443	.434	.458	4.64	1.00	4.9	5.4	4.7	5.2
June	29.298	29.520	29.047	69.3	81.9	80.6	86.7	64.2	75.4	98	52	60	60	61	72	49	52	.527	.541	.542	1.19	.59	3.4	4.4	4.2	3.9
July	29.330	29.610	29.003	70.5	81.9	81.0	87.0	65.9	76.4	97	55	63	61	60	76	51	49	.580	.547	.522	2.56	1.06	4.6	4.8	4.1	4.8
August	29.309	29.510	28.960	68.4	83.1	80.3	87.7	65.5	76.6	100	54	60	60	60	76	47	52	.536	.532	.538	.55	.45	4.2	4.1	3.9	4.0
September	29.400	29.670	29.100	61.5	78.2	73.9	82.7	59.1	70.9	99	44	56	54	56	81	47	56	.472	.455	.482	1.00	.39	2.8	3.0	2.6	3.0
October	29.325	29.640	28.960	50.2	66.4	60.8	70.0	48.5	59.2	89	34	43	43	46	78	46	60	.297	.293	.329	1.95	.64	4.5	4.4	4.0	4.6
November	29.418	29.740	28.840	40.0	48.5	46.2	52.0	38.4	45.2	71	21	36	38	39	85	68	76	.222	.243	.257	2.53	1.10	4.9	5.2	4.2	5.7
December	29.403	29.980	28.940	27.6	34.1	33.7	40.3	23.7	32.0	62	−2	23	25	26	82	68	72	.135	.147	.154	1.59	.77	7.1	5.9	4.5	6.7
Year	29.361	30.090	28.476	48.7	59.6	57.5	64.4	45.3	54.8	100	−4	43	43	44	80	57	63	.329	.334	.341	30.71	2.63	4.9	5.0	4.4	4.9

Annual meteorological summary for the year ending December 31, 1922—Continued.

SHREVEPORT, LA.

[H_b=249 ft.; h_1=77 ft.; h_r=70 ft.; h_a=93 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. 1. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.	*	*Mi.*																									
January	8.0	NE.	27	W.	0	7	20	4	7	6	3	6	9	0	5	3	23	17	12	0	0	0	0	0	0	3	4	0
February	9.2	SE.	38	W.	0	6	8	5	13	12	2	4	6	0	9	9	10	8	7	1	0	0	0	0	0	2	3	0
March	9.7	SE.	34	W.	0	2	4	5	19	7	2	7	18	0	13	9	9	11	10	0	0	0	0	0	0	4	8	0
April	8.7	SE.	44	SE.	1	6	6	5	18	16	5	2	2	0	10	11	9	10	10	0	0	0	0	0	0	0	8	0
May	7.1	S.	36	NW.	0	7	6	6	9	15	9	3	7	0	15	10	6	10	9	0	0	2	0	0	1	0	8	0
June	5.9	SE.	40	NW.	1	7	11	4	13	11	6	1	7	0	18	8	4	11	9	0	0	0	0	0	18	0	8	0
July	6.4	S.	35	NW.	0	3	4	2	8	27	14	3	1	0	14	16	1	9	7	0	0	0	0	0	20	0	11	0
August	4.9	NE.	29	SE.	0	7	15	6	12	9	10	1	2	0	17	13	1	10	5	0	0	0	0	0	18	0	7	0
September	4.9	NE.	28	SE.	0	3	22	11	10	9	2	0	3	0	20	9	1	5	4	0	0	0	0	0	12	0	5	0
October	5.1	SE.	26	NW.	0	12	9	10	14	5	0	2	9	1	22	6	3	5	3	0	0	0	0	0	0	0	1	0
November	6.3	N.	22	SE.	0	14	7	8	12	2	5	5	7	0	16	5	9	8	5	0	0	0	0	0	0	0	3	0
December	7.8	S.	31	W.	0	5	11	3	12	15	5	3	8	0	11	5	15	10	6	0	0	0	0	0	0	3	3	0
Year	7.0	SE.	44	SE.	2	79	123	69	147	134	63	37	77	1	170	104	91	114	87	1	0	2	0	0	69	12	67	0

SIOUX CITY, IOWA.

[H_b=1,135 ft.; h_1=94 ft.; h_r=86 ft.; h_a=164 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	1. or more.	0.01 inch or more melted.	Hail.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	12.8	NW.	47	NW.	2	5	7	1	11	16	4	5	13	0	15	4	12	6	6	12	6	0	1	16	0	31	0	0
February	14.1	NW.	55	W.	5	5	3	5	7	5	2	3	26	0	10	12	6	7	5	9	6	0	0	16	0	28	0	0
March	14.1	N.	46	NW.	4	15	4	7	10	11	0	3	12	0	8	8	15	7	5	9	6	0	0	3	0	23	1	0
April	13.0	SE.	55	NW.	4	7	13	9	10	9	0	6	6	0	6	7	17	9	7	2	2	0	1	0	0	2	1	0
May	12.6	S.	48	SW.	6	4	8	8	6	14	1	7	12	2	8	10	13	11	9	0	0	0	0	0	0	0	1	0
June	10.6	S.	67	S.	1	7	4	7	8	21	0	3	9	1	14	6	10	7	6	0	0	0	0	0	5	0	9	0
July	9.6	S.	48	S.	2	10	8	7	3	18	1	3	11	1	8	13	10	9	7	0	0	0	0	0	2	0	7	0
August	9.3	S.	43	NE.	3	4	10	4	17	14	5	3	5	0	15	11	5	9	8	0	0	0	0	0	8	0	5	0
September	10.7	S.	33	N.	0	8	10	4	18	14	2	1	3	0	13	12	5	5	2	0	0	0	0	0	6	0	6	0
October	11.4	S.	42	NW.	2	13	1	1	12	16	4	1	13	1	15	11	5	5	3	0	0	0	2	0	0	5	1	0
November	15.2	NW.	56	SW.	6	4	4	5	4	11	3	8	20	1	9	8	13	8	7	1	0	0	0	0	0	13	2	0
December	12.1	NW.	46	NW.	2	3	8	2	12	10	2	5	20	0	11	9	11	2	1	6	1	0	2	15	0	29	0	0
Year	12.1	S.	67	S.	37	85	80	60	118	159	24	48	150	6	132	111	122	85	66	39	21	0	6	50	21	131	33	0

SPOKANE, WASH.

[H_b=1,929 ft.; h_1=101 ft.; h_r=94 ft.; h_a=110 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	1. or more.	0.01 inch or more melted.	Hail.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	4.2	NW.	23	SW.	0	9	7	4	0	5	13	6	18	0	1	6	24	13	9	20	13	0	9	21	0	31	0	0
February	5.8	NE.	25	SW.	0	7	11	4	0	15	8	5	6	0	8	5	15	11	6	16	11	0	1	10	0	24	0	0
March	7.2	SW.	36	S.	0	2	2	8	0	8	27	9	6	0	3	15	13	16	10	14	9	0	0	0	0	26	0	0
April	6.9	SW.	25	E.	0	3	4	6	0	6	25	8	6	2	4	11	15	15	8	9	5	0	2	0	0	7	2	0
May	6.2	SW.	31	SW.	0	0	4	11	2	5	26	3	11	0	10	10	11	3	1	1	0	0	0	0	0	2	0	0
June	5.7	SW.	28	N.	0	0	11	6	5	4	23	7	4	0	15	10	5	2	0	0	0	0	0	0	4	0	2	0
July	5.6	SW.	28	NE.	0	3	7	11	3	2	23	8	5	0	20	10	1	2	0	0	0	0	0	0	10	0	1	0
August	4.7	SW.	28	SW.	0	3	4	7	8	8	21	1	7	3	15	8	8	7	6	0	0	1	0	0	13	0	4	0
September	5.1	SW.	22	S.	0	1	3	16	1	10	20	8	0	1	11	13	6	4	4	0	0	0	0	0	1	0	0	0
October	4.3	SW.	30	SW.	0	11	9	6	2	8	18	3	4	1	13	8	10	8	6	0	0	0	2	0	0	2	0	0
November	4.1	N.	36	SW.	0	15	3	7	2	5	12	4	11	1	2	7	21	2	2	5	1	0	5	5	0	25	0	0
December	5.1	SW.	28	SW.	0	6	5	3	2	8	21	3	14	0	3	3	25	20	14	16	15	0	5	17	0	25	0	0
Year	5.4	SW.	36	S.	0	60	70	89	25	84	237	65	92	8	105	106	154	103	66	81	54	1	24	53	28	142	9	0

SPRINGFIELD, ILL.

[H_b=636 ft.; h_1=10 ft.; h_r=4 ft.; h_a=91 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Clear.	Partly cloudy.	Cloudy.	0.01 inch and over.	0.04 inch and over.	1. or more.	0.01 inch or more melted.	Hail.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	8.6	NE.	29	S.	0	5	13	7	6	9	6	7	9	0	15	8	8	7	5	9	5	0	0	15	0	30	1	0
February	10.4	NW.	32	S.	0	6	8	3	6	9	5	7	12	0	10	12	6	8	8	5	3	0	2	7	0	21	2	0
March	10.7	S.	33	NE.	0	5	9	5	10	11	5	6	11	0	10	3	18	15	13	6	3	2	0	2	0	8	4	0
April	9.3	SE.	34	SW.	0	4	9	6	18	5	9	6	3	0	12	3	15	12	11	0	0	2	0	0	0	0	6	0
May	7.7	SE.	29	W.	0	3	4	6	13	11	8	11	6	0	11	11	9	13	11	0	0	0	0	0	0	0	8	0
June	7.3	SW.	41	N.	1	9	12	3	4	11	14	2	5	0	14	12	4	4	2	0	0	1	0	0	8	0	4	0
July	7.2	S.	26	S.	0	7	6	6	12	8	9	5	9	0	14	8	9	11	10	0	0	0	0	0	9	0	8	0
August	6.5	S.	26	NW.	0	8	6	4	14	9	6	8	7	0	15	12	4	5	2	0	0	0	0	0	10	0	4	0
September	6.5	S.	26	W.	0	4	15	4	7	11	9	3	6	1	19	6	5	5	5	0	0	0	0	0	6	0	8	0
October	7.4	S.	25	NW.	0	5	1	6	8	16	7	8	11	0	14	7	10	8	6	0	0	0	1	0	0	0	1	0
November	9.2	W.	28	S.	0	4	1	5	5	13	12	9	9	2	10	8	12	10	8	2	1	0	1	0	0	8	1	0
December	9.5	W.	26	NW.	0	6	5	5	9	10	8	9	10	0	6	9	16	7	6	2	1	0	1	7	0	22	1	0
Year	8.4	S.	41	N.	1	66	89	60	112	123	98	81	98	3	150	99	116	105	87	24	13	5	5	31	33	89	48	0

*By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1922—Continued.

SPRINGFIELD, MO.

[ϕ=37° 12′ N.; λ=93° 18′ W.]

Month.	Pressure.			Temperature.								Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	28.733	29.190	28.170	27.2	34.3	34.4	40.1	23.5	31.8	61	7	24	26	26	88	74	71	0.136	0.150	0.145	1.38	0.44	5.7	5.9	5.6	5.9
February	28.677	29.100	28.170	32.0	40.8	40.3	47.5	29.0	38.2	73	12	28	28	28	83	61	62	.164	.172	.166	2.02	1.00	5.2	4.9	5.4	5.1
March	28.596	28.940	28.083	40.0	46.8	47.6	54.1	36.4	45.2	73	13	34	35	38	80	67	72	.208	.216	.242	6.45	1.80	5.9	5.6	6.4	5.6
April	28.574	29.060	27.920	52.3	61.4	61.0	67.4	47.8	57.6	85	32	45	46	46	78	60	62	.323	.331	.332	4.94	1.54	5.2	5.1	5.7	4.9
May	28.533	28.800	28.210	60.9	70.6	69.2	74.5	58.3	66.4	83	50	54	53	56	80	56	64	.437	.420	.452	3.94	1.56	4.5	5.3	4.7	4.0
June	28.613	28.806	28.400	70.2	80.8	80.3	85.4	66.0	75.7	96	54	63	60	60	78	52	53	.577	.530	.538	.66	.55	3.9	5.6	5.2	3.2
July	28.644	28.870	28.390	71.4	80.5	81.0	85.3	67.5	76.4	95	57	65	66	66	81	63	61	.629	.648	.643	6.15	2.49	3.5	4.8	4.3	3.3
August	28.620	28.820	28.405	70.5	82.1	80.5	86.3	67.7	77.0	100	58	62	61	63	75	50	56	.564	.550	.579	2.47	2.11	3.1	3.9	3.0	3.2
September	28.689	28.870	28.480	64.3	79.0	76.3	83.3	62.1	72.7	97	47	54	54	54	72	44	48	.444	.431	.431	.95	.42	2.2	2.8	1.7	2.7
October	28.626	28.948	28.320	52.1	67.2	63.7	71.4	50.5	61.0	86	32	43	42	43	72	44	51	.293	.294	.302	1.60	1.19	2.3	2.7	2.8	3.0
November	28.717	28.990	28.270	41.4	51.9	50.5	57.2	39.0	48.1	75	26	35	35	35	78	54	57	.211	.210	.212	4.14	1.40	3.5	3.1	2.3	4.0
December	28.652	29.100	28.240	33.8	42.8	41.3	48.8	29.7	39.2	71	12	28	30	31	80	63	68	.169	.184	.182	2.07	1.28	4.8	5.4	3.3	5.2
Year	28.640	29.190	27.920	51.3	61.5	60.5	66.8	48.1	57.4	100	7	45	45	46	79	57	60	.346	.345	.344	36.77	2.49	4.2	4.6	4.2	4.2

SYRACUSE, N. Y.

[ϕ=43° 02′ N.; λ=76° 10′ W.]

January	29.508	30.080	28.730	17.5	22.2	....	27.7	12.8	20.2	50	−8	10	12	....	72	65	....	0.076	0.082	.....	3.54	1.76	6.6	7.1	....	6.8
February	29.442	29.960	28.680	24.7	28.3	....	35.2	19.4	27.3	64	−10	19	20	....	76	71	....	.111	.117	.....	2.83	.92	8.1	7.1	....	7.5
March	29.455	30.010	28.750	32.8	37.1	....	42.7	27.5	35.1	66	9	24	26	....	71	66	....	.141	.153	.....	4.68	.98	7.3	7.2	....	6.9
April	29.399	29.870	28.580	42.9	48.1	....	54.2	37.6	45.9	79	25	33	33	....	69	57	....	.199	.199	.....	2.47	.94	6.4	6.5	....	6.3
May	29.374	29.815	28.705	58.2	66.0	....	70.2	50.2	60.2	82	34	45	45	....	63	50	....	.314	.317	.....	3.84	2.24	4.1	4.3	....	4.5
June	29.320	29.582	28.840	64.2	69.5	....	74.3	58.5	66.4	86	45	57	60	....	80	72	....	.484	.523	.....	15.92	4.79	7.4	6.4	....	6.4
July	29.396	29.589	29.100	67.2	73.1	....	78.3	60.8	69.6	90	53	62	65	....	83	77	....	.554	.623	.....	2.39	1.02	6.1	5.9	....	5.2
August	29.366	29.720	28.920	64.7	72.9	....	76.4	58.8	67.6	90	47	58	61	....	81	67	....	.492	.545	.....	4.87	1.16	5.9	6.1	....	6.0
September	29.480	29.810	29.180	60.7	68.5	....	72.3	55.1	63.7	87	36	54	55	....	78	62	....	.429	.455	.....	1.31	.73	4.5	4.9	....	4.8
October	29.349	29.830	28.850	48.3	55.0	....	59.4	42.1	50.8	84	22	41	43	....	76	66	....	.285	.317	.....	2.25	.62	6.4	6.2	....	6.7
November	29.400	29.844	28.830	38.3	42.9	....	46.8	35.2	41.0	62	21	31	32	....	76	67	....	.183	.186	.....	1.23	.42	8.7	7.9	....	8.5
December	29.451	29.920	29.010	26.7	29.7	....	34.7	21.6	28.2	59	2	19	20	....	71	68	....	.112	.121	.....	2.34	1.24	7.6	7.5	....	7.4
Year	29.412	30.080	28.580	45.5	51.1	....	56.0	40.0	48.0	90	−10	38	39	....	75	66	....	.282	.303	.....	48.17	4.79	6.6	6.4	....	6.4

TACOMA, WASH.

[ϕ=47° 16′ N.; λ=122° 23′ W.]

January	29.956	30.480	29.500	....	36.0	37.9	39.5	29.3	34.4	54	12	....	32	34	....	85	85	.....	0.181	0.196	1.72	0.32	....	8.5	6.9	7.7
February	29.779	30.260	29.130	....	40.4	42.2	44.5	32.4	38.4	53	18	....	32	32	....	74	68	.....	.183	.180	2.00	.50	....	7.6	7.1	7.2
March	29.778	30.280	29.380	....	43.6	45.5	47.7	34.9	41.3	56	29	....	33	35	....	67	69	.....	.190	.206	3.40	.55	....	8.7	8.2	8.2
April	29.937	30.320	29.442	....	48.9	51.4	53.3	39.0	46.1	68	29	....	38	38	....	68	62	.....	.235	.229	1.63	.34	....	8.3	6.8	7.4
May	29.886	30.260	29.540	....	58.6	62.0	64.0	45.1	54.6	86	34	....	41	40	....	55	48	.....	.259	.256	1.48	.45	....	7.1	6.8	6.5
June	29.838	30.080	29.579	....	63.6	70.1	71.0	51.8	61.4	82	48	....	47	47	....	56	44	.....	.323	.321	.02	.02	....	7.8	5.3	6.3
July	29.892	30.070	29.630	....	65.6	73.2	74.4	52.8	63.6	90	48	....	51	50	....	60	47	.....	.375	.366	T.	T.	....	8.4	7.6	7.4
August	29.819	30.060	29.549	....	65.2	70.4	71.7	54.8	63.2	83	48	....	55	54	....	70	58	.....	.431	.424	1.52	.76	....	7.0	6.2	5.5
September	29.825	30.180	29.454	....	62.6	66.1	68.4	51.0	59.7	79	43	....	53	54	....	72	66	.....	.408	.421	1.65	.64	....	6.5	5.8	5.9
October	29.814	30.220	29.420	....	54.1	56.4	58.0	46.9	52.4	72	32	....	49	49	....	83	78	.....	.345	.350	3.84	1.48	....	8.3	8.2	7.8
November	29.935	30.400	29.436	....	43.5	46.4	48.3	35.5	41.9	56	28	....	39	41	....	86	82	.....	.241	.256	1.48	.66	....	7.8	7.2	7.8
December	29.760	30.230	29.090	....	39.8	40.6	42.8	33.2	38.0	58	15	....	37	37	....	89	87	.....	.226	.229	7.22	1.47	....	8.6	7.9	8.4
Year	29.852	30.480	29.090	....	51.8	55.2	57.0	42.2	49.6	90	12	....	42	43	....	72	66	.....	.283	.286	25.96	1.48	....	7.9	7.0	7.3

TAMPA, FLA.

[ϕ=27° 57′ N.; λ=82° 27′ W.]

January	30.107	30.480	29.518	54.9	65.6	62.2	69.9	52.8	61.4	83	37	50	52	52	86	64	71	0.392	0.409	0.419	1.16	0.65	4.4	6.1	4.6	5.8
February	30.117	30.520	29.860	59.8	71.6	66.6	76.0	57.8	66.9	84	35	56	58	58	88	64	76	.482	.515	.516	.52	.33	4.1	5.1	3.8	5.0
March	30.083	30.320	29.840	63.0	75.2	69.5	78.5	59.9	69.2	85	44	59	59	59	86	59	69	.511	.528	.513	1.24	.50	3.9	4.6	3.7	4.6
April	30.068	30.267	29.910	69.7	81.1	75.4	84.5	65.9	75.2	90	57	63	60	62	80	49	64	.586	.517	.561	.16	.14	3.4	5.4	3.5	4.6
May	29.923	30.136	29.650	74.8	83.8	77.5	86.9	69.6	78.2	93	64	69	65	67	82	55	71	.706	.629	.659	3.40	1.33	4.5	6.4	5.5	5.9
June	29.989	30.125	29.850	78.7	85.4	80.1	89.1	72.8	81.0	93	67	73	71	71	83	63	74	.810	.762	.756	2.41	1.06	5.2	6.6	6.2	6.1
July	30.069	30.184	29.970	79.6	85.6	79.7	89.2	74.1	81.6	94	69	73	73	72	81	67	78	.815	.815	.786	7.15	1.95	3.8	6.8	6.6	6.3
August	29.958	30.110	29.790	77.8	84.2	79.2	87.2	73.6	80.4	92	69	73	72	72	85	67	80	.806	.776	.789	8.52	2.74	5.3	7.5	8.1	7.0
September	29.951	30.100	29.810	75.1	84.0	76.3	86.3	71.6	79.0	91	66	71	69	70	88	62	83	.766	.709	.748	8.46	1.75	5.4	6.5	8.2	6.9
October	29.883	30.050	29.670	72.5	81.2	74.5	82.7	69.5	76.1	90	60	69	68	68	88	65	82	.709	.689	.705	10.33	2.67	6.1	7.0	5.4	6.7
November	30.062	30.370	29.690	64.1	75.2	69.9	77.9	61.8	69.8	84	43	59	58	59	83	56	69	.519	.505	.519	1.01	.95	4.6	4.9	4.0	5.0
December	30.190	30.420	29.780	61.1	71.6	67.2	73.8	58.8	66.3	81	44	57	56	56	87	62	75	.481	.480	.514	3.57	2.10	4.5	5.6	3.4	5.2
Year	30.026	30.520	29.518	69.3	78.7	73.2	81.9	65.7	73.8	94	35	64	63	64	85	61	74	.632	.611	.624	47.93	2.74	4.6	6.0	5.2	5.8

Annual meteorological summary for the year ending December 31, 1922—Continued.

SPRINGFIELD, MO.

[H_b=1,324 ft.; h_t=98 ft.; h_r=66 ft.; h_a=104 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	10.7	SE.	34	W.	0	4	11	8	15	6	3	5	10	0	10	6	15	5	4	5	3	1	2	5	0	24	2	0
February	12.3	SE.	39	S.	0	9	9	4	12	8	2	5	7	0	9	11	8	7	4	2	1	0	3	1	0	19	3	0
March	14.1	SE.	40	S.	1	7	4	4	20	8	2	7	10	0	9	10	12	13	11	5	3	0	1	2	0	7	5	0
April	13.0	SE.	49	N.	4	2	6	7	20	11	6	3	5	0	12	7	11	11	10	0	0	2	0	0	0	1	6	0
May	9.2	SE.	36	W.	0	7	5	6	21	6	6	4	7	0	15	11	5	12	11	0	0	0	0	0	0	0	6	0
June	7.6	S.	36	SW.	0	5	5	5	6	14	12	6	7	0	17	11	2	3	3	0	0	0	0	0	10	0	4	0
July	8.2	S.	31	NW.	0	5	11	6	16	11	5	4	4	0	20	9	2	11	9	0	0	0	0	0	8	0	9	0
August	8.1	SE.	35	E.	0	6	4	10	21	9	7	3	2	0	15	13	3	7	3	0	0	0	0	0	9	0	4	0
September	7.9	S.	28	NW.	0	10	9	5	16	16	3	1	0	0	19	7	4	5	3	0	0	0	1	0	9	0	5	0
October	8.8	SE.	39	W.	0	6	6	2	22	13	1	2	10	0	18	8	5	6	6	0	0	0	1	0	0	1	2	0
November	10.9	SE.	38	SW.	0	3	4	1	15	7	8	7	15	0	14	11	5	6	6	0	0	0	0	0	0	9	1	0
December	11.6	SE.	33	N.	0	8	6	3	21	8	3	6	7	0	14	5	12	9	5	2	0	0	1	4	0	18	2	0
Year	10.2	SE.	49	N.	5	72	80	61	205	117	58	53	84	0	172	109	84	95	75	14	7	3	9	12	36	79	49	0

SYRACUSE, N. Y.

[H_b=597 ft.; h_t=97 ft.; h_r=65 ft.; h_a=113 ft.]

January	12.1	S.	51	NW.	7	4	2	5	4	22	7	11	7	0	5	11	15	16	12	17	12	0	0	19	0	30	0	0
February	13.2	S.	52	SW.	5	3	4	6	5	16	5	11	6	0	2	8	18	19	14	17	15	0	0	10	0	28	2	0
March	11.4	NW.	44	NW.	1	4	4	11	4	9	8	12	10	0	4	10	17	16	15	13	11	0	0	6	0	23	1	0
April	13.3	NW.	46	W.	4	2	3	3	3	11	11	14	13	0	6	8	16	13	9	4	2	0	0	0	0	9	3	1
May	9.2	S.	38	SW.	0	5	5	9	3	15	6	8	10	1	16	6	9	7	6	0	0	0	0	0	0	0	4	0
June	8.9	NW.	48	W.	1	4	2	8	2	11	8	10	15	0	6	11	13	14	12	0	0	1	0	0	0	0	10	0
July	8.1	S.	28	SW.	0	9	3	1	2	19	8	10	8	2	10	12	9	7	7	0	0	0	0	0	0	0	6	0
August	7.7	S.	41	NW.	2	6	1	2	3	24	10	5	11	0	8	9	14	12	8	0	0	0	0	0	0	0	10	0
September	8.2	S.	35	NW.	0	2	1	2	4	27	8	6	9	1	12	12	6	7	4	0	0	0	1	0	0	0	1	0
October	10.9	S.	46	NW.	1	4	1	4	2	16	11	7	17	0	7	8	16	13	7	4	0	0	1	0	0	7	1	0
November	10.9	W.	45	NW.	1	1	2	1	4	16	10	19	7	0	1	5	24	16	10	9	7	0	1	3	0	10	0	0
December	13.7	S.	46	S.	6	1	3	7	3	17	13	13	5	0	5	7	19	12	8	17	8	0	0	14	0	26	0	0
Year	10.6	S.	52	SW.	28	45	31	59	39	203	105	126	118	4	82	107	176	152	112	81	55	1	3	52	0	133	38	1

TACOMA, WASH.

[H_b=213 ft.; h_t=113 ft.; h_r=104 ft.; h_a=120 ft.]

January	6.7	SW.	39	NE.	0	1	6	3	3	3	13	0	2	0	3	8	20	13	10	6	3	0	9	3	0	21	0	1
February	6.8	SW.	29	NE.	0	7	3	2	3	1	9	2	1	0	3	9	16	13	9	6	0	0	1	0	0	12	0	0
March	6.8	SW.	26	SW.	0	8	1	1	0	4	10	5	2	0	1	8	22	24	17	5	0	1	0	0	0	6	0	0
April	7.3	SW.	30	SW.	0	13	0	1	1	0	10	4	1	0	0	14	16	14	11	1	0	0	0	0	0	1	0	0
May	7.2	SW.	37	NE.	0	11	2	1	0	0	9	5	3	0	3	16	12	13	10	1	0	0	0	0	0	0	0	0
June	5.9	N.	17	N.	0	16	2	0	0	0	2	7	3	0	5	16	9	1	1	0	0	0	0	0	0	0	0	0
July	4.9	N.	17	W.	0	15	0	0	0	0	1	9	6	0	0	15	16	0	0	0	0	0	2	0	1	0	0	0
August	5.2	N.	20	W.	0	19	0	0	0	0	8	3	1	0	4	13	14	7	6	0	0	0	0	0	0	0	3	0
September	5.4	SW.	25	SW.	0	12	0	0	0	0	8	10	0	0	6	14	10	12	5	0	0	0	1	0	0	0	0	0
October	4.1	N.	20	SW.	0	14	2	0	0	5	8	1	1	0	2	9	20	13	11	0	0	0	4	0	0	1	0	0
November	3.9	SW.	30	W.	0	8	3	1	4	1	9	0	2	2	3	6	21	10	6	0	0	0	19	0	0	5	0	0
December	7.2	SW.	37	SW.	0	2	5	3	0	6	14	1	0	0	1	6	24	20	18	8	3	0	3	4	0	14	0	0
Year	6.0	SW.	39	NE.	0	126	24	12	11	20	101	47	22	2	31	134	200	140	104	27	6	1	39	7	1	60	3	1

TAMPA, FLA.

[H_b=35 ft.; h_t=79 ft.; h_r=71 ft.; h_a=87 ft.]

January	7.0	NE.	30	SE.	0	9	25	6	3	3	6	6	4	0	6	17	8	6	4	0	0	0	8	0	0	0	0	0
February	7.4	SW.	27	W.	0	4	12	4	4	5	18	2	7	0	5	20	3	4	3	0	0	0	4	0	0	0	2	0
March	8.2	NE.	28	SW.	0	6	18	1	9	3	13	7	5	0	12	15	4	7	6	0	0	0	1	0	0	0	1	0
April	7.2	SW.	22	E.	0	2	10	2	11	2	19	7	7	0	11	16	3	2	1	0	0	0	4	0	1	0	0	0
May	6.9	NE.	27	NE.	0	3	18	6	6	4	9	14	2	0	8	12	11	10	7	0	0	0	0	0	6	0	9	0
June	6.0	NE.	27	NE.	0	3	13	8	7	7	10	5	7	0	6	16	8	14	10	0	0	0	1	0	14	0	17	0
July	5.4	SW.	42	SE.	1	3	6	4	12	10	12	9	6	0	1	23	7	17	13	0	0	0	0	0	16	0	22	0
August	5.9	S.	32	E.	0	1	14	6	10	16	4	8	3	0	1	19	11	19	14	0	0	0	0	0	8	0	22	0
September	5.6	E.	27	E.	0	6	21	23	3	3	1	1	2	0	2	15	13	23	22	0	0	0	1	0	7	0	17	0
October	6.5	E.	25	SE.	0	5	20	19	7	1	1	3	6	0	3	15	13	15	15	0	0	0	0	0	1	0	6	0
November	6.5	E.	24	N.	0	8	24	18	0	0	0	2	6	2	9	16	5	4	1	0	0	0	2	0	0	0	0	0
December	5.2	E.	25	W.	0	2	15	16	3	5	5	7	7	2	11	12	8	5	4	0	0	0	4	0	0	0	2	0
Year	6.5	NE.	42	SE.	1	52	196	113	75	59	98	71	62	4	75	196	94	126	100	0	0	0	25	0	53	0	98	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

TATOOSH ISLAND, WASH.

[ϕ=48° 23′ N.; λ=124° 44′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	30.007	30.580	29.490	38.9	40.7	40.0	42.6	36.4	39.5	49	28	34	35	35	84	80	82	0.202	0.208	0.204	4.68	1.02	5.5	5.6	6.2	6.3
February	29.846	30.350	29.250	38.2	40.3	40.0	42.7	35.9	39.3	51	31	34	34	34	84	79	80	.196	.196	.198	6.56	2.06	6.2	7.1	7.0	7.4
March	29.847	30.340	29.330	39.6	43.0	42.2	45.3	37.1	41.2	54	33	36	38	38	88	83	86	.214	.229	.231	8.11	1.51	7.8	7.1	7.0	7.6
April	30.034	30.430	29.465	42.3	45.8	45.9	47.9	41.1	44.5	60	34	40	41	40	90	83	82	.243	.255	.251	3.51	.88	8.2	6.8	6.7	7.4
May	29.993	30.430	29.550	45.8	50.3	51.0	53.9	44.4	49.2	79	36	43	44	44	90	82	79	.277	.295	.292	5.19	2.22	7.1	6.5	6.1	7.6
June	29.971	30.260	29.732	50.8	54.6	54.8	56.9	50.2	53.6	66	48	48	51	50	93	87	85	.342	.369	.362	.11	.05	6.7	7.2	6.6	7.7
July	30.030	30.220	29.760	50.4	53.7	54.1	55.9	50.0	53.0	66	48	50	51	51	97	91	91	.354	.371	.378	.02	.01	4.2	4.6	4.8	8.0
August	29.928	30.140	29.679	53.1	56.3	56.7	58.6	51.9	55.2	66	46	52	54	54	97	93	93	.391	.422	.424	2.54	.91	5.1	5.5	6.4	7.5
September	29.909	30.320	29.520	52.5	55.8	55.2	57.8	50.6	54.2	68	46	51	53	52	95	89	90	.374	.398	.390	7.23	1.71	5.9	6.4	6.6	7.6
October	29.896	30.291	29.420	51.2	53.5	53.3	55.3	49.6	52.4	64	43	50	51	50	94	93	90	.356	.380	.368	5.76	2.47	6.9	8.2	7.7	8.4
November	30.015	30.470	29.550	45.4	47.7	46.6	49.8	44.1	47.0	53	40	42	44	43	89	87	87	.271	.288	.277	4.85	1.34	5.7	7.1	7.7	7.9
December	29.789	30.270	28.818	39.8	41.3	40.3	43.1	37.8	40.4	52	29	38	38	37	92	89	88	.234	.240	.231	11.78	1.83	7.2	8.8	8.8	8.7
Year	29.939	30.580	28.818	45.7	48.6	48.3	50.8	44.1	47.5	79	28	43	44	44	91	86	86	.288	.304	.300	60.34	2.47	6.4	6.7	6.8	7.7

TAYLOR, TEX.

[ϕ=30° 35′ N.; λ=97° 20′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.544	29.880	29.120	40.7	48.6	....	53.0	38.4	45.7	75	25	34	36	....	79	67	....	0.219	0.236	....	3.62	1.42	7.3	8.2	....	8.1
February	29.476	29.960	29.100	48.3	59.0	....	64.3	44.8	54.6	83	24	42	42	....	82	58	....	.305	.297	....	2.56	.80	6.5	7.3	....	6.9
March	29.433	29.850	29.026	50.2	64.0	....	69.5	47.2	58.4	81	20	43	43	....	78	51	....	.325	.311	....	2.89	1.42	5.6	4.6	....	5.2
April	29.353	29.870	28.966	61.8	73.3	....	77.7	58.2	68.0	88	45	57	56	....	84	58	....	.490	.471	....	6.96	4.11	8.0	7.3	....	7.5
May	29.300	29.480	29.050	69.3	81.9	....	85.4	66.7	76.0	93	56	65	65	....	87	58	....	.627	.620	....	6.10	3.17	4.6	6.1	....	5.8
June	29.381	29.540	29.240	72.9	86.4	....	89.7	69.9	79.8	96	62	70	67	....	89	53	....	.724	.661	....	4.29	2.18	4.8	5.2	....	5.3
July	29.437	29.620	29.260	75.2	90.1	....	94.6	73.5	84.0	101	66	71	66	....	86	46	....	.752	.629	....	.27	.26	4.1	3.7	....	4.4
August	29.380	29.530	29.180	74.9	91.4	....	95.8	73.6	84.7	100	68	69	65	....	84	43	....	.719	.626	....	1.04	.61	3.9	4.1	....	4.2
September	29.423	29.570	29.200	69.3	85.4	....	89.3	68.3	78.8	99	57	64	63	....	83	49	....	.619	.589	....	1.25	.55	4.1	4.4	....	4.3
October	29.398	29.720	29.140	58.4	77.5	....	81.5	56.5	69.0	94	43	51	50	....	78	41	....	.397	.357	....	1.93	1.70	3.4	2.8	....	3.4
November	29.512	29.780	29.270	53.4	64.5	....	68.3	50.9	59.6	83	38	49	49	....	84	60	....	.371	.377	....	2.10	.73	6.5	7.3	....	7.0
December	29.435	29.830	29.110	49.9	61.3	....	66.3	45.4	55.8	80	28	44	45	....	79	59	....	.328	.337	....	.14	.13	5.7	5.7	....	5.5
Year	29.427	29.950	28.966	60.4	73.6	....	78.0	57.8	67.9	101	20	55	54	....	83	54	....	.490	.462	....	33.15	4.11	5.4	5.6	....	5.6

TERRE HAUTE, IND.

[ϕ=39° 29′ N.; λ=87° 24′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.553	30.100	28.940	23.2	30.6	29.8	36.1	18.8	27.4	60	1	17	20	21	77	64	69	0.105	0.121	0.123	1.14	0.54	5.8	5.2	4.4	5.7
February	29.482	29.980	28.990	30.4	36.7	36.6	42.0	26.8	34.4	70	8	24	26	27	77	63	67	.143	.154	.162	1.14	.41	6.1	5.6	5.4	6.7
March	29.398	29.790	28.640	39.9	47.9	48.0	52.3	36.6	44.4	74	22	35	38	38	82	71	72	.213	.248	.238	8.45	3.67	6.6	7.2	6.3	6.8
April	29.404	29.830	28.610	50.1	59.9	59.5	65.4	46.2	55.8	77	32	46	51	51	86	75	74	.323	.396	.391	10.57	3.92	5.6	5.5	5.6	5.9
May	29.319	29.700	28.750	62.9	73.7	71.2	77.6	58.8	68.2	86	51	55	58	58	76	60	65	.445	.494	.498	2.65	.63	6.5	5.9	6.1	6.1
June	29.350	29.570	29.140	69.0	81.8	80.0	86.1	63.8	75.0	96	54	59	60	60	72	49	53	.515	.524	.529	3.67	1.87	4.0	5.4	4.3	5.1
July	29.376	29.620	29.170	70.1	82.2	80.4	88.2	65.7	76.0	95	52	62	61	62	75	50	55	.559	.556	.560	2.41	.85	5.2	5.6	4.5	5.2
August	29.372	29.600	29.040	68.2	81.7	79.5	86.2	64.9	75.6	97	55	60	59	60	77	48	54	.537	.513	.540	2.40	1.36	4.5	4.1	4.6	4.8
September	29.471	29.730	29.260	62.9	79.7	75.2	83.4	59.9	71.6	96	43	56	56	58	79	46	57	.472	.475	.495	.74	.58	2.6	2.0	2.1	3.2
October	29.397	29.760	28.980	50.2	66.6	63.1	70.3	48.5	59.4	90	34	44	45	45	78	51	55	.298	.318	.317	2.22	.98	4.3	4.2	3.6	4.4
November	29.510	29.820	28.970	40.6	50.3	47.8	53.8	38.2	46.0	71	20	35	37	39	81	62	71	.220	.244	.255	1.22	.36	4.7	5.6	5.3	5.6
December	29.486	30.060	29.020	30.3	36.4	36.2	42.5	25.8	34.2	63	−4	26	29	29	84	74	75	.161	.178	.182	5.22	1.71	7.0	6.8	5.8	7.0
Year	29.426	30.100	28.610	49.8	60.6	59.0	65.2	46.2	55.7	97	−4	43	45	46	79	59	64	.333	.352	.358	41.83	3.92	5.2	5.3	4.8	5.5

THOMASVILLE, GA.

[ϕ=30° 48′ N.; λ=83° 58′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.874	30.200	29.170	45.7	55.0	52.2	59.6	43.5	51.6	76	28	41	42	42	84	64	71	0.279	0.292	0.300	2.72	1.09	7.3	7.1	5.2	7.2
February	29.845	30.270	29.460	54.9	66.3	62.2	70.4	52.0	61.2	81	27	51	53	52	88	64	71	.410	.432	.420	4.64	2.05	7.0	7.5	3.6	6.5
March	29.820	30.066	29.457	55.7	68.3	63.6	72.4	51.5	62.0	82	33	49	47	49	78	49	62	.376	.358	.379	4.12	1.10	5.5	5.1	4.8	5.6
April	29.817	30.060	29.530	63.0	76.3	71.3	80.5	59.1	69.8	89	48	57	55	56	82	49	62	.493	.453	.477	.64	.44	5.8	5.7	3.4	5.5
May	29.658	29.935	29.360	70.1	80.1	75.5	84.7	65.9	75.3	93	57	65	63	63	84	59	68	.618	.581	.586	8.21	2.65	6.6	7.5	7.0	7.2
June	29.721	29.871	29.500	77.1	85.0	79.6	89.6	70.5	80.0	99	67	70	68	70	80	58	72	.748	.690	.722	5.36	2.57	4.0	6.5	6.8	6.6
July	29.790	29.930	29.620	77.2	88.7	79.7	89.8	72.0	80.9	95	67	71	68	71	82	58	75	.767	.693	.756	3.64	1.31	4.1	7.6	7.1	7.2
August	29.698	29.840	29.530	75.1	83.9	77.6	88.2	70.7	79.4	94	64	70	69	70	84	61	77	.742	.704	.725	2.71	.81	6.7	7.9	7.1	7.5
September	29.732	29.900	29.550	71.8	84.2	77.9	87.7	68.5	78.1	97	57	66	64	66	82	51	67	.648	.602	.643	3.42	2.65	5.4	5.7	5.1	5.8
October	29.673	29.850	29.400	63.8	74.4	68.9	77.9	61.5	69.7	90	49	59	59	61	84	61	76	.523	.519	.550	4.75	2.55	7.2	6.9	5.8	6.9
November	29.843	30.140	29.320	54.0	68.5	62.7	72.3	52.1	62.2	83	32	49	53	52	84	58	69	.380	.422	.406	1.10	1.07	5.7	5.3	2.9	5.2
December	29.839	30.130	29.370	53.6	63.3	58.9	67.6	51.4	59.5	78	35	51	54	54	95	73	83	.395	.438	.427	6.33	2.11	6.1	7.5	4.9	7.1
Year	29.776	30.270	29.170	63.5	74.5	69.2	78.4	59.9	69.1	99	27	58	58	59	84	59	71	.532	.516	.533	47.64	2.65	6.0	6.7	5.3	6.5

Annual meteorological summary for the year ending December 31, 1922—Continued.

TATOOSH ISLAND, WASH.

[H_b=86 ft.; h_t= 9 ft.; h_r=4 ft.; h_a=57 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	18.6	E.	61	S.	12	0	15	22	4	7	5	7	1	1	9	5	17	19	16	0	0	2	0	0	0	4	0	0
February	21.3	E.	60	S.	13	0	6	25	3	10	3	6	3	0	5	2	21	17	15	8	2	0	0	0	0	3	0	0
March	15.6	W.	68	S.	9	0	6	8	9	8	10	19	2	0	3	9	19	26	23	7	6	0	0	0	0	0	0	0
April	13.7	S.	58	W.	3	0	8	1	2	16	14	14	5	0	5	6	19	18	12	2	2	0	0	0	0	0	0	0
May	13.6	S.	58	S.	7	0	6	4	3	23	11	15	0	0	3	6	22	18	14	1	1	0	7	0	0	0	0	0
June	10.2	SW.	34	S.	0	1	1	1	2	14	22	19	0	0	3	8	19	4	2	0	0	0	6	0	0	0	0	0
July	11.8	S.	39	SE.	0	0	0	0	1	34	18	6	3	0	4	4	23	2	0	0	0	0	20	0	0	0	0	0
August	10.1	S.	44	S.	2	1	4	2	5	24	23	3	0	0	6	5	20	9	7	0	0	0	18	0	0	0	0	0
September	13.8	S.	50	SW.	4	1	9	3	9	21	11	4	2	0	5	3	22	15	13	0	0	0	8	0	0	0	0	1
October	12.6	E.	56	S.	2	2	15	18	3	9	6	5	2	2	2	7	22	13	12	0	0	0	3	0	0	0	0	0
November	18.2	E.	68	S.	6	0	16	28	6	1	3	5	1	0	3	6	21	16	12	0	0	0	0	0	0	0	0	0
December	25.4	E.	76	NE.	18	1	6	24	4	14	6	5	2	0	0	7	24	29	24	12	12	0	1	1	0	10	0	0
Year	15.4	S.	76	NE.	76	6	92	136	51	181	132	108	21	3	48	68	249	186	150	30	23	2	63	1	0	17	0	1

TAYLOR, TEX.

[H_b=583 ft.; h_t=55 ft.; h_r=48 ft.; h_a=63 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	9.5	N.	31	S.	0	13	4	1	2	4	1	1	5	0	4	4	23	12	9	0	0	0	0	1	0	5	1	0
February	11.2	S.	33	S.	0	5	0	0	4	8	0	3	7	1	3	13	12	9	6	0	0	0	1	0	0	4	3	0
March	11.4	SE.	34	S.	0	2	0	2	7	8	3	1	8	0	11	9	11	5	4	1	0	0	0	1	0	4	3	0
April	10.9	SE.	33	SE.	0	5	1	2	10	7	1	1	2	1	3	7	20	12	11	0	0	0	1	0	0	0	6	0
May	8.6	SE.	37	SE.	0	2	4	0	7	7	3	4	4	0	7	12	12	10	10	0	0	0	0	0	4	0	12	0
June	6.4	SE.	28	N.	0	2	1	2	6	13	1	1	2	2	10	11	9	8	7	0	0	1	0	0	16	0	4	0
July	9.3	S.	29	S.	0	2	0	0	2	24	2	0	0	1	13	15	3	2	1	0	0	0	0	0	28	0	0	0
August	6.6	S.	28	N.	0	1	4	2	4	17	2	0	0	1	14	14	3	5	3	0	0	0	0	0	29	0	2	0
September	6.2	SE.	32	E.	0	7	5	4	2	8	0	2	1	1	12	13	5	7	5	0	0	0	0	0	15	0	4	0
October	6.8	N.	26	N.	0	11	1	2	2	4	1	0	8	2	19	8	4	4	2	0	0	0	2	0	1	0	1	0
November	8.2	N.	26	SE.	0	10	2	1	6	4	1	1	4	1	5	8	17	7	7	0	0	0	2	0	0	0	1	0
December	8.9	S.	28	NW.	0	3	1	0	2	13	2	1	8	1	9	10	12	2	1	0	0	0	2	0	0	3	1	0
Year	8.7	S.	38	S.	0	63	23	16	54	117	17	15	49	11	110	124	131	83	66	1	0	1	8	2	93	16	38	0

TERRE HAUTE, IND.

[H_b=575 ft.; h_t=96 ft.; h_r=84 ft.; h_a=129 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	9.8	NE.	35	SW.	0	7	17	1	3	12	6	3	13	0	7	14	10	7	4	10	4	0	3	12	0	29	0	0
February	11.8	NW.	35	SW.	0	5	10	3	4	12	7	2	13	0	5	10	13	8	7	7	1	0	3	6	0	20	0	0
March	12.3	NW.	38	NW.	0	7	8	6	11	12	3	5	10	0	7	7	17	17	12	4	4	1	0	1	0	7	3	0
April	11.4	S.	50	SW.	3	3	13	4	10	14	4	3	9	0	9	11	10	12	11	0	0	2	0	0	0	1	8	0
May	8.4	SE.	36	W.	0	7	6	5	16	11	5	6	5	1	6	14	11	10	9	0	0	0	0	0	0	0	8	0
June	8.3	SW.	42	NW.	2	13	7	6	6	10	11	2	5	0	6	19	5	4	3	0	0	2	0	0	6	0	6	0
July	8.2	S.	27	SW.	0	12	12	1	4	13	9	1	10	0	6	16	9	10	9	0	0	0	0	0	10	0	7	0
August	7.1	SW.	36	NW.	0	10	10	2	8	10	7	3	12	0	7	20	4	5	4	0	0	0	0	0	8	0	7	0
September	7.8	NE.	34	W.	0	8	16	1	8	13	9	1	4	0	18	10	2	4	2	0	0	0	0	0	7	0	4	0
October	8.0	S.	25	NW.	0	5	8	4	5	18	6	6	10	0	13	10	8	8	6	0	0	0	0	0	1	0	1	0
November	10.0	S.	28	S.	0	3	2	0	9	14	11	15	6	0	9	12	9	9	8	4	0	0	1	0	0	9	0	0
December	10.1	S.	36	N.	0	7	6	4	10	13	9	2	11	0	4	11	16	10	8	4	2	0	0	6	0	21	0	0
Year	9.4	S.	50	SW.	5	87	115	37	94	152	87	49	108	1	97	154	114	104	83	29	11	5	7	25	32	87	44	0

THOMASVILLE, GA.

[H_b=273 ft.; h_t=49 ft.; h_r=41 ft.; h_a=58 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	5.1	NE.	24	SW.	0	7	19	8	1	10	3	3	7	4	7	5	19	9	7	0	0	0	2	0	0	6	0	0
February	5.2	SW.	24	W.	0	3	8	8	0	17	9	3	7	1	6	6	16	8	6	0	0	0	1	0	0	2	5	0
March	5.7	E.	27	S.	0	5	9	10	1	12	6	4	9	6	8	11	12	10	8	0	0	0	0	0	0	0	4	0
April	5.3	SW.	19	SW.	0	6	9	11	1	15	13	2	2	1	7	16	7	4	3	0	0	0	1	0	0	0	0	0
May	4.6	SW.	25	NE.	0	2	8	17	2	7	11	5	5	5	2	16	13	16	14	0	0	0	1	0	8	0	13	0
June	3.3	SW.	16	NW.	0	2	6	9	2	11	10	10	6	4	3	16	11	11	10	0	0	0	0	0	12	0	15	0
July	4.0	SW.	25	SW.	0	2	1	9	0	16	17	11	1	5	0	19	12	15	10	0	0	0	0	0	17	0	17	0
August	4.0	SW.	23	E.	0	2	12	16	0	9	15	4	2	2	3	8	20	15	11	0	0	0	0	0	10	0	15	0
September	4.1	NE.	19	NE.	0	5	29	9	1	3	3	5	1	4	9	10	11	9	6	0	0	0	0	0	12	0	6	0
October	4.6	NE.	18	NE.	0	6	28	9	1	4	3	7	1	3	7	5	19	13	11	0	0	0	1	0	0	0	3	0
November	4.2	NE.	18	SW.	0	10	20	9	0	4	2	3	7	5	8	15	7	3	2	0	0	0	1	0	0	1	1	0
December	4.7	SW.	17	W.	0	4	14	7	4	13	8	4	5	3	6	7	18	14	9	0	0	0	4	0	0	0	4	0
Year	4.6	SW.	27	S.	0	54	163	122	13	121	100	61	53	43	66	134	165	127	97	0	0	0	11	0	59	9	83	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

TOLEDO, OHIO.

[ϕ=41° 40′ N.; λ=83° 34′ W.]

Month.	Pressure.			Temperature.								Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.494	30.060	28.889	20.4	27.2	26.0	32.0	16.7	24.4	55	1	15	16	18	78	59	69	0.090	0.094	0.103	1.54	0.77	4.6	3.7	4.3	4.1
February	29.412	29.970	28.760	28.0	32.8	31.3	37.6	23.5	30.5	65	7	22	22	23	75	62	69	.126	.127	.133	.83	.34	6.6	7.0	7.6	6.9
March	29.386	29.940	28.550	33.1	40.1	40.1	46.2	30.5	38.4	70	20	28	31	32	81	70	73	.157	.177	.190	5.18	1.31	6.6	6.5	6.2	6.4
April	29.375	29.760	28.503	45.4	52.9	50.9	57.2	40.7	49.0	80	30	39	41	42	77	65	72	.251	.272	.282	3.33	1.31	4.9	5.8	5.7	5.4
May	29.295	29.732	28.520	59.7	68.2	65.4	71.6	54.9	63.2	84	43	53	54	55	79	63	72	.403	.427	.450	4.29	1.26	4.7	4.5	4.5	4.7
June	29.316	29.560	28.940	66.6	74.8	72.1	78.6	61.2	69.9	94	52	58	57	58	74	56	64	.487	.482	.498	2.43	1.19	5.0	4.3	5.1	4.5
July	29.355	29.640	29.060	68.2	77.7	74.6	81.1	63.5	72.3	90	51	59	58	59	74	52	60	.512	.503	.511	2.55	1.03	4.5	5.1	4.1	4.5
August	29.338	29.630	28.880	66.5	76.7	73.0	80.1	62.3	71.2	94	52	57	56	58	73	50	61	.479	.457	.496	4.79	3.02	2.9	3.5	3.6	3.3
September	29.443	29.740	29.160	62.0	73.7	69.6	78.9	58.3	67.0	93	44	54	55	57	77	54	65	.438	.457	.484	2.85	2.54	3.4	3.5	3.2	3.3
October	29.339	29.760	28.830	49.3	60.3	56.7	63.8	46.5	55.2	86	32	43	44	44	80	57	66	.296	.307	.310	1.98	.89	3.8	4.9	3.4	4.3
November	29.409	29.780	28.880	40.1	47.2	44.9	50.0	36.9	43.4	65	24	35	35	35	81	63	68	.216	.214	.215	.96	.32	6.7	6.5	7.2	6.7
December	29.417	29.900	28.940	27.8	32.5	30.4	36.9	23.0	30.0	61	4	23	24	24	80	69	75	.134	.132	.133	3.31	1.36	6.5	5.3	6.5	6.1
Year	29.382	30.060	28.503	47.3	55.3	52.9	59.3	43.2	51.3	94	1	40	41	42	77	60	68	.300	.304	.317	34.04	3.02	5.0	5.0	5.1	5.0

TONOPAH, NEV.

[ϕ=38° 04′ N.; λ=117° 14′ W.]

January	24.042	24.510	23.300	21.1	27.4	27.6	31.3	17.5	24.4	45	−10	15	18	18	74	66	65	0.085	0.099	0.098	1.04	0.68	1.9	2.4	3.4	2.9
February	23.984	24.310	23.580	26.1	31.9	33.2	36.0	23.0	29.5	50	8	21	23	23	81	69	67	.116	.122	.122	.54	.50	4.0	4.7	5.6	4.7
March	24.010	24.370	23.430	28.5	39.0	41.7	44.6	26.5	35.6	60	9	20	22	23	69	51	48	.109	.119	.121	.14	.14	2.3	3.5	5.0	4.5
April	24.004	24.410	23.660	33.1	46.7	49.4	52.2	30.7	41.4	67	16	20	23	22	60	45	40	.104	.119	.116	.44	.36	3.4	4.3	4.8	4.2
May	24.054	24.310	23.590	46.9	63.2	64.9	68.3	44.4	56.4	80	21	26	27	26	45	29	27	.136	.147	.143	.38	.24	2.6	3.1	3.8	3.5
June	24.088	24.270	23.860	57.7	76.7	78.1	81.9	56.3	69.1	94	42	33	29	30	41	18	20	.193	.161	.174	.04	.03	2.2	1.7	4.0	3.1
July	24.178	24.300	23.940	64.9	82.8	84.3	87.7	63.3	75.5	98	53	35	34	34	35	19	20	.209	.200	.202	.84	.80	2.4	2.3	4.2	3.4
August	24.158	24.350	23.900	60.6	76.9	75.4	82.2	58.4	70.3	90	49	45	45	54	59	34	30	.305	.305	.343	.77	.31	2.4	2.9	3.7	3.0
September	24.135	24.300	23.910	59.3	75.7	78.2	80.4	57.2	68.8	88	40	29	35	34	32	23	20	.157	.206	.194	.00	.00	.6	.8	1.1	1.3
October	24.083	24.420	23.790	44.7	57.8	59.7	62.5	42.6	52.6	75	19	24	25	24	44	30	26	.127	.136	.127	.01	.01	1.4	1.9	2.5	2.1
November	24.091	24.410	23.600	31.3	40.3	40.8	44.6	28.2	36.4	56	13	20	21	20	61	47	44	.107	.112	.107	.41	.30	1.8	3.2	4.1	3.5
December	24.070	24.340	23.750	31.0	36.1	37.5	39.6	28.6	34.1	50	16	26	28	27	81	72	68	.139	.150	.149	.28	.10	4.3	5.5	6.5	6.1
Year	24.075	24.510	23.390	42.1	54.5	56.2	59.3	39.7	49.5	98	−10	26	28	28	57	42	40	.149	.156	.158	4.89	.80	2.4	3.0	4.1	3.5

TOPEKA, KANS.

[ϕ=39° 03′ N.; λ=95° 41′ W.]

January				22.2			38.4	19.3	28.8	62	2										0.34	0.14				5.6
February				25.7			44.1	21.6	32.8	74	2										2.48	2.27				4.3
March				36.8			53.5	34.8	44.2	79	10										4.27	2.17				5.8
April				49.1			65.6	45.9	55.8	82	33										5.23	2.33				5.4
May				59.2			75.5	56.5	66.0	87	47										3.93	1.31				5.9
June				69.3			87.3	65.6	76.4	95	48										1.35	.69				3.7
July				69.3			86.1	66.6	76.4	95	57										8.04	4.10				4.5
August				70.4			90.3	68.1	79.2	106	55										.43	.22				3.2
September				62.6			83.4	60.6	72.0	104	46										5.51	1.58				2.8
October				49.0			72.1	47.1	59.6	90	32										1.69	*1.79				2.8
November				40.3			56.8	37.3	47.0	76	25										4.83	2.80				3.7
December				26.9			43.5	22.2	32.8	68	3										.06	.06				4.1
Year				48.4			66.4	45.5	55.9	106	2										38.16	4.10				4.3

TRENTON, N. J.

[ϕ=40° 14′ N.; λ=74° 45′ W.]

January	29.965	30.470	28.540	24.7	31.5	29.7	35.5	21.4	28.4	52	5	18	21	21	76	64	68	0.108	0.124	0.119	2.41	1.07	5.2	6.6	4.1	6.1
February	29.920	30.376	29.220	30.7	37.1	35.4	42.3	26.2	34.2	70	0	25	29	27	78	72	71	.146	.171	.161	2.25	.67	6.6	6.8	4.5	6.6
March	29.889	30.460	29.140	38.4	45.5	42.7	49.6	32.9	41.2	74	17	33	38	36	80	74	76	.204	.244	.223	3.89	.90	6.1	6.4	5.3	6.4
April	29.857	30.241	29.020	49.1	56.6	53.9	61.1	42.2	51.6	83	30	42	48	44	76	73	71	.282	.353	.312	1.69	.82	5.8	5.4	4.6	5.6
May	29.706	30.272	29.230	60.8	71.0	65.8	75.4	52.9	64.2	84	39	53	58	55	76	65	69	.411	.494	.435	3.03	1.71	5.0	5.3	4.8	5.4
June	29.763	29.980	29.320	69.2	76.7	72.7	80.7	63.0	71.8	89	52	61	63	64	77	65	75	.561	.599	.602	4.98	1.12	6.0	6.1	7.5	6.6
July	29.824	30.050	29.500	70.5	78.8	73.3	82.6	64.2	73.4	94	58	64	64	64	80	62	74	.599	.608	.612	2.29	.89	6.3	5.9	6.2	6.4
August	29.790	30.120	29.450	68.9	76.4	71.2	79.5	62.6	71.0	90	54	62	62	62	80	63	75	.573	.572	.573	5.16	1.38	6.1	6.4	5.8	6.7
September	29.922	30.260	29.540	62.5	74.1	67.6	77.2	57.1	67.2	91	40	56	57	58	80	56	72	.474	.495	.506	1.75	.91	5.0	4.8	3.7	4.6
October	29.799	30.251	29.330	52.6	64.3	58.4	67.9	47.5	57.7	88	32	45	44	46	75	49	64	.333	.328	.347	.81	.34	3.8	4.6	3.7	4.1
November	29.855	30.250	29.270	40.6	50.1	45.6	52.9	37.2	45.0	66	27	33	33	33	75	52	63	.203	.202	.203	.62	.35	4.8	4.9	3.7	5.7
December	29.933	30.441	29.160	30.3	36.1	34.8	39.5	26.3	32.9	56	14	25	27	27	80	69	74	.141	.153	.154	3.46	.66	6.5	7.5	5.6	7.4
Year	29.859	30.470	28.540	49.9	58.2	54.3	62.0	44.5	53.2	94	0	43	45	45	78	64	71	.338	.361	.354	22.34	1.71	5.6	5.9	5.0	6.0

* Oct. 31-Nov. 1.

Annual meteorological summary for the year ending December 31, 1922—Continued.

TOLEDO, OHIO.

[H_b=628 ft.; h_1=208 ft.; h_2=201 ft.; h_3=243 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	15.7	SW.	51	SW.	6	6	8	6	2	5	19	7	9	0	14	10	7	6	6	12	5	0	1	17	0	30	0	0
February	16.3	SW.	68	SW.	5	6	3	3	2	9	13	13	7	0	5	8	15	8	6	15	5	0	0	9	0	24	0	0
March	16.0	NE.	52	SW.	4	11	8	9	2	8	10	7	7	0	7	8	16	16	14	9	7	0	0	2	0	19	0	0
April	15.8	SW.	68	SW.	8	4	9	11	3	6	12	6	9	0	10	10	10	14	9	3	2	1	1	0	0	3	5	0
May	10.8	SW.	43	SW.	1	5	9	12	11	2	11	4	8	0	14	6	11	13	12	0	0	0	0	0	0	0	7	0
June	11.7	SW.	43	SW.	1	10	3	7	4	6	16	4	8	0	12	15	3	12	10	0	0	0	0	0	1	0	10	0
July	11.6	SW.	73	SW.	3	13	3	6	6	6	16	6	6	0	13	15	3	11	10	0	0	0	0	0	0	0	7	0
August	10.6	SW.	36	W.	0	13	5	9	4	7	14	3	7	0	17	11	3	8	6	0	0	1	0	0	3	0	8	0
September	10.9	SW.	43	SW.	1	18	3	5	10	5	13	2	4	0	18	7	5	6	5	0	0	0	0	0	5	0	6	0
October	13.8	SW.	49	SW.	1	5	7	5	2	6	19	12	6	0	16	7	8	6	5	0	0	0	1	0	0	0	1	0
November	15.8	SW.	44	SW.	3	1	2	4	3	5	23	9	13	0	7	8	15	8	6	5	2	0	0	1	0	9	1	0
December	14.6	SW.	48	SW.	2	9	2	6	6	5	14	16	4	0	11	3	17	9	7	9	5	0	1	11	0	25	0	0
Year	13.6	SW.	73	SW.	35	101	64	83	55	70	180	89	88	0	144	108	113	117	96	53	26	2	4	40	9	110	45	0

TONOPAH, NEV.

[H_b=6,090 ft.; h_1=12 ft.; h_2=9 ft.; h_3=20 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	7.4	W.	43	W.	1	0	0	0	18	2	3	29	10	0	22	4	5	5	4	5	4	0	0	15	0	30	0	0
February	11.3	SE.	37	SE.	0	0	1	2	32	1	1	10	9	0	10	14	4	5	2	7	5	0	1	6	0	25	1	0
March	11.6	SE.	41	NW.	1	0	0	1	26	0	1	5	19	0	5	25	1	1	1	4	0	0	0	4	0	22	0	0
April	9.7	NW.	41	NW.	1	2	2	0	8	0	0	17	31	0	9	19	2	6	2	8	6	0	0	1	0	17	1	0
May	8.6	W.	51	W.	1	2	5	2	11	1	0	21	20	0	13	16	2	2	2	2	1	1	0	0	0	4	3	0
June	8.0	SE.	33	SE.	0	1	1	3	24	3	2	16	10	0	17	13	0	2	0	0	0	0	0	4	0	4	0	0
July	7.5	W.	39	NW.	0	3	1	0	22	1	1	17	17	0	17	14	0	3	1	0	0	0	0	0	13	0	5	0
August	8.8	SE.	32	NW.	0	1	0	1	35	0	0	7	5	0	21	10	0	6	5	0	0	0	0	0	1	0	5	0
September	6.1	SE.	23	SE.	0	0	0	1	25	5	2	21	6	0	26	4	0	0	0	0	0	0	0	0	0	0	0	0
October	9.8	SE.	37	NW.	0	0	1	1	29	1	1	18	11	0	21	9	1	1	0	0	0	0	0	0	0	3	0	0
November	8.2	W.	37	SE.	0	0	1	0	13	2	4	24	14	0	15	12	3	3	2	5	3	0	0	3	0	21	0	0
December	7.8	SE.	37	NW.	0	0	1	0	33	4	1	15	8	0	6	12	13	6	4	6	5	0	0	3	0	24	0	0
Year	8.7	SE.	51	W.	4	9	13	11	275	20	16	200	160	0	182	152	31	40	23	37	24	1	1	32	18	146	19	0

TOPEKA, KANS.

[H_b=987 ft.; h_1=92 ft.; h_2=83 ft.; h_3=107 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	10.4	*S.	40	N.	1	6	2	0	2	6	6	4	5	0	11	5	15	6	3	7	2	0	1	7	0	28	1	0
February	12.5	N.	37	S.	0	8	3	1	2	6	2	1	5	0	14	6	8	5	4	5	3	0	2	8	0	22	1	0
March	13.4	S.	40	N.	1	8	1	1	3	5	6	3	4	0	10	7	14	11	9	4	1	0	0	1	0	12	4	0
April	11.8	S.	50	W.	3	4	4	1	7	5	3	1	5	0	9	9	12	14	11	0	0	0	0	0	0	0	6	0
May	9.8	N.	40	SW.	1	3	4	3	1	3	5	4	8	0	7	14	10	13	9	0	0	0	0	0	0	0	8	0
June	8.5	S.	50	N.	1	5	2	1	2	6	9	3	2	0	14	14	2	6	3	0	0	0	0	0	12	0	6	0
July	8.6	S.	44	NW.	1	6	2	4	5	9	3	0	2	0	13	11	7	11	8	0	0	0	1	0	7	0	9	0
August	7.7	S.	31	S.	0	3	1	5	0	18	1	2	1	0	19	9	3	7	3	0	0	0	0	0	16	0	6	0
September	9.4	S.	40	W.	1	2	4	3	4	6	6	3	2	0	20	5	5	8	8	0	0	0	2	0	9	0	7	0
October	8.9	S.	37	N.	0	3	2	1	1	11	4	4	5	0	22	1	8	6	6	0	0	0	1	0	0	1	4	0
November	11.1	W.	46	N.	3	3	0	1	4	4	5	9	4	0	17	6	7	8	7	0	0	0	0	0	0	9	2	0
December	10.5	N.	37	S.	0	8	5	1	3	5	3	5	1	0	17	7	7	2	1	1	0	0	1	8	0	26	0	0
Year	10.2	S.	50	W.	12	59	30	22	34	84	53	39	44	0	173	94	98	97	72	17	6	0	8	24	44	98	54	0

TRENTON, N. J.

[H_b=190 ft.; h_1=159 ft.; h_2=152 ft.; h_3=183 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	13.1	W.	60	NE.	4	14	6	2	4	4	3	13	16	0	7	9	15	7	6	5	4	0	1	10	0	28	0	0
February	11.9	N.	54	W.	2	9	8	5	4	6	7	10	7	0	6	8	14	10	9	5	3	1	6	4	0	22	1	0
March	13.3	NW.	48	S.	3	13	5	7	2	9	5	9	11	1	9	6	16	14	12	9	3	0	2	1	0	13	2	0
April	12.6	W.	52	W.	3	12	3	5	4	8	7	11	9	1	9	11	10	11	9	0	0	0	0	0	0	2	1	0
May	11.2	SW.	40	SW.	1	7	8	6	8	11	11	5	6	0	9	13	9	7	6	0	0	0	0	0	0	0	2	0
June	9.9	W.	46	NW.	2	4	5	8	8	5	15	8	7	0	5	11	14	16	12	0	0	1	1	0	0	0	8	0
July	9.1	SW.	33	N.	0	10	9	7	8	16	8	1	3	0	6	11	14	13	9	0	0	0	1	0	3	0	9	0
August	9.3	SW.	35	N.	0	10	10	5	4	9	17	4	3	0	7	8	16	17	11	0	0	0	1	0	1	0	11	0
September	8.5	NE.	29	NW.	0	8	12	4	10	11	8	4	2	1	13	8	9	2	2	0	0	0	2	0	1	0	3	0
October	10.7	SW.	39	W.	0	12	4	2	3	7	18	3	12	1	16	5	10	5	5	0	0	0	6	0	0	0	2	0
November	10.8	NW.	46	NW.	2	10	1	3	2	5	14	13	12	0	8	11	11	5	4	2	0	0	5	0	0	9	0	0
December	10.3	NE.	42	NE.	2	8	16	7	2	3	6	6	14	0	3	10	18	15	12	7	6	0	5	4	0	25	0	0
Year	10.9	SW.	60	NE.	19	117	87	61	59	94	119	87	102	4	98	111	156	122	97	28	16	2	30	19	5	99	39	0

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1922—Continued.

VALENTINE, NEBR.

[ϕ=42° 50′ N.; λ=100° 32′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	27.311	27.803	26.750	11.7	22.7	19.2	27.7	5.8	16.8	53	−18	9	16	15	90	76	81	0.072	0.097	0.088	1.00	0.30	3.9	4.9	4.0	4.7
February	27.313	27.950	26.850	9.9	22.1	19.0	28.4	4.0	16.2	50	−12	8	15	14	89	72	78	.066	.092	.088	.32	.16	3.8	5.4	4.8	4.9
March	27.226	27.800	26.770	26.2	42.3	42.7	48.4	23.7	36.0	72	−3	22	27	28	84	59	57	.123	.151	.154	.75	.50	3.8	5.3	3.8	4.8
April	27.246	27.644	26.720	37.8	52.0	51.9	57.1	35.5	46.3	77	20	34	34	35	85	56	56	.200	.204	.208	2.30	.88	5.2	5.8	5.8	6.2
May	27.208	27.580	26.570	50.4	64.6	64.5	69.5	46.5	58.0	84	35	44	44	43	80	51	49	.303	.306	.296	2.67	1.13	5.7	5.4	4.3	5.2
June	27.262	27.590	26.900	61.2	76.6	77.6	82.4	56.7	69.6	102	42	54	54	54	79	49	48	.425	.425	.428	4.03	1.98	3.4	3.7	3.3	3.6
July	27.328	27.570	26.780	61.7	77.8	77.9	82.5	57.7	70.1	94	42	57	57	58	85	51	52	.469	.476	.488	3.89	1.31	3.9	4.2	4.3	4.7
August	27.291	27.480	27.040	65.0	81.3	83.2	88.7	61.8	75.2	101	48	58	56	57	78	41	44	.486	.459	.476	.42	.13	3.7	3.1	3.1	3.2
September	27.329	27.673	26.990	53.2	77.0	75.9	82.1	50.4	66.2	97	30	43	43	43	71	33	33	.294	.290	.286	.11	.07	2.3	2.6	2.6	2.7
October	27.281	27.600	26.780	38.8	63.6	58.6	67.6	34.8	51.2	96	18	30	30	31	71	32	38	.172	.167	.173	.61	.37	2.8	2.7	4.0	3.5
November	27.308	27.730	26.423	31.6	43.4	39.8	46.8	27.0	36.9	63	12	27	25	30	82	59	68	.151	.163	.169	2.74	2.26	3.5	4.8	3.6	4.9
December	27.270	27.680	26.640	16.8	29.4	24.6	34.2	11.0	22.6	59	−16	12	16	16	79	57	68	.082	.098	.100	.43	.28	3.0	4.2	3.3	4.3
Year	27.281	27.950	26.423	38.7	54.6	52.9	59.6	34.6	47.1	102	−18	33	35	35	81	53	56	.237	.244	.246	19.27	2.26	3.8	4.3	3.9	4.4

VICKSBURG, MISS.

[ϕ=32° 22′ N.; λ=90° 53′ W.]

January	29.901	30.200	29.180	42.7	48.8	48.0	53.8	40.0	46.9	75	30	40	44	43	89	84	84	0.259	0.303	0.290	6.46	2.16	7.7	7.7	6.9	7.4
February	29.851	30.310	29.430	48.4	56.5	56.8	62.0	46.5	54.2	79	26	44	50	49	84	80	77	.306	.385	.371	9.65	4.15	8.1	7.1	5.0	7.1
March	29.798	30.120	29.380	50.6	60.2	59.7	65.4	48.4	56.9	82	28	45	53	53	83	79	80	.331	.431	.424	8.37	2.96	6.2	5.3	4.7	5.5
April	29.777	30.220	29.401	62.0	71.6	70.9	76.5	60.0	68.2	85	45	56	60	61	83	70	73	.478	.549	.563	4.92	1.63	6.2	6.2	4.8	5.9
May	29.671	29.928	29.430	67.6	76.8	74.9	81.0	65.0	73.0	87	57	64	68	67	89	75	77	.606	.688	.659	4.24	1.67	7.1	6.6	4.8	6.1
June	29.742	29.880	29.610	73.8	83.6	80.8	87.4	70.9	79.2	95	66	70	74	73	88	75	79	.734	.847	.816	3.55	.90	5.0	5.6	5.4	5.4
July	29.796	29.951	29.660	74.4	84.0	79.8	88.0	71.5	79.8	94	63	70	74	73	88	73	80	.750	.835	.813	4.47	1.08	5.0	5.0	7.0	5.9
August	29.727	29.860	29.600	73.2	84.4	81.3	88.1	71.5	79.8	94	65	69	72	72	86	67	75	.708	.788	.795	3.96	1.77	4.5	4.3	4.5	4.6
September	29.772	29.910	29.590	70.3	84.0	79.8	87.0	68.4	77.7	95	59	63	66	68	80	56	67	.595	.654	.683	.64	.62	2.6	4.2	3.2	3.7
October	29.732	30.010	29.490	58.2	73.7	69.2	77.2	56.3	66.8	89	40	51	56	54	77	56	62	.395	.469	.446	1.33	1.10	3.3	4.0	3.2	3.9
November	29.884	30.090	29.440	52.0	65.1	61.3	68.9	50.0	59.4	84	35	46	48	48	82	56	65	.347	.364	.369	3.55	1.15	5.2	4.9	4.2	5.4
December	29.846	30.110	29.400	50.7	58.2	56.6	64.3	47.1	55.7	78	26	48	52	50	90	80	81	.366	.409	.388	7.40	2.29	7.0	6.2	5.5	6.5
Year	29.791	30.310	29.180	60.3	70.6	68.3	75.0	58.0	66.5	95	26	56	60	59	85	71	75	.490	.560	.551	58.54	4.15	5.7	5.6	4.9	5.6

WALLA WALLA, WASH.

[ϕ=46° 02′ N.; λ=118° 20′ W.]

January	29.130	29.720	28.620	21.6	24.6	24.7	29.7	16.4	23.0	48	−4	18	20	22	88	83	88	0.102	0.111	0.118	1.54	0.71	6.9	8.2	7.3	8.3
February	28.964	29.500	28.300	31.5	35.7	36.8	39.5	27.3	33.4	56	9	24	26	27	76	70	68	.133	.144	.146	.97	.51	8.3	7.3	7.3	7.6
March	28.923	29.490	28.490	38.5	46.8	48.4	51.1	35.4	43.2	61	25	30	31	31	71	55	53	.165	.173	.176	.96	.32	6.2	6.8	7.2	6.8
April	29.003	29.370	28.560	42.1	53.1	56.2	58.3	40.1	49.2	78	33	34	33	32	72	47	42	.195	.187	.181	1.34	.41	6.2	6.2	5.4	5.2
May	28.974	29.320	28.590	49.7	63.6	68.5	70.3	47.6	59.0	91	32	38	43	41	63	48	38	.230	.286	.263	.46	.33	4.1	4.8	4.4	4.2
June	28.856	29.200	28.649	62.9	79.4	85.5	86.9	60.9	73.9	100	53	46	50	47	56	35	28	.318	.374	.328	.51	.46	2.6	2.7	2.4	2.4
July	28.903	29.140	28.567	65.9	83.9	90.2	91.2	64.9	78.0	107	59	44	47	42	47	29	20	.295	.331	.276	.04	.04	1.8	1.1	1.4	2.0
August	28.863	29.070	28.569	64.3	78.7	84.2	86.1	62.4	74.2	102	51	48	49	48	58	38	31	.338	.355	.339	1.25	.93	3.8	4.2	4.3	4.0
September	28.914	29.290	28.520	58.3	74.8	78.6	81.1	55.8	68.4	95	47	42	44	43	57	34	30	.274	.288	.284	.41	.22	2.9	2.9	2.8	2.7
October	28.925	29.300	28.460	49.5	61.2	62.4	66.3	46.7	58.5	75	35	40	42	44	72	51	51	.255	.270	.287	.89	.55	3.7	4.5	3.8	4.3
November	29.149	29.550	28.470	35.1	38.5	39.0	41.0	32.8	36.9	59	26	32	32	34	86	80	82	.180	.184	.195	.95	.54	7.7	8.9	8.4	8.6
December	28.984	29.430	28.320	29.4	32.3	31.8	37.5	24.0	30.8	62	−2	24	25	25	81	76	78	.144	.151	.151	1.83	.33	8.1	8.7	8.6	8.3
Year	28.966	29.720	28.300	45.7	56.0	58.9	61.6	42.9	52.2	107	−4	35	37	36	69	54	51	.219	.238	.229	11.15	.93	5.2	5.5	5.3	5.4

WASHINGTON, D. C.

[ϕ=38° 54′ N.; λ=77° 03′ W.]

January	30.076	30.603	28.733	28.6	34.4	33.1	38.9	25.0	32.0	62	11	20	21	21	69	58	62	0.115	0.125	0.123	5.56	2.47	6.3	7.0	4.5	6.7
February	30.025	30.488	29.380	34.0	40.3	40.2	46.2	31.1	38.6	72	9	27	28	27	76	60	60	.160	.162	.160	2.86	.87	7.0	7.5	5.2	7.0
March	29.995	30.565	29.248	40.8	48.7	47.6	53.6	37.1	45.4	78	23	32	33	33	70	57	59	.195	.205	.201	4.74	.98	6.0	6.5	5.4	6.5
April	29.965	30.386	29.134	52.3	59.9	58.8	65.1	46.0	55.6	89	33	38	36	39	60	44	50	.257	.243	.261	1.05	.48	5.1	6.9	4.9	5.8
May	29.872	30.362	29.250	63.5	72.2	69.0	77.2	56.5	66.8	88	41	53	51	54	69	51	62	.408	.397	.435	4.27	1.77	4.5	5.6	5.3	5.5
June	29.850	30.060	29.498	71.5	79.0	76.2	83.1	65.9	74.5	93	56	63	63	64	76	61	68	.590	.593	.610	4.10	1.42	6.0	5.8	6.1	5.9
July	29.905	30.090	29.610	73.6	81.6	76.7	85.2	68.0	76.6	95	58	66	66	68	78	59	76	.649	.638	.690	9.59	3.37	4.5	5.6	6.0	5.5
August	29.877	30.190	29.540	69.4	78.5	73.0	82.1	64.1	73.1	92	53	63	62	64	80	58	75	.586	.565	.609	3.08	1.25	4.3	5.3	4.2	5.0
September	30.000	30.350	29.690	64.5	75.6	69.7	79.7	60.1	69.9	92	46	59	59	61	83	58	75	.524	.528	.560	6.27	5.16	5.4	4.2	1.9	4.4
October	29.905	30.360	29.460	53.4	65.6	59.8	70.1	48.6	59.4	87	33	46	46	48	77	51	67	.341	.350	.378	1.41	1.10	3.8	4.2	3.2	4.1
November	29.983	30.380	29.460	42.5	52.8	48.9	56.7	39.1	47.9	74	28	35	34	36	75	50	61	.214	.209	.222	.55	.35	4.7	5.1	4.1	5.2
December	30.034	30.520	29.240	33.6	40.0	38.8	44.9	30.4	37.6	64	17	27	29	28	78	66	65	.155	.165	.158	3.48	1.46	7.8	7.3	5.4	7.0
Year	29.957	30.603	28.733	52.3	60.7	57.6	65.2	47.7	56.4	95	9	44	44	45	74	56	65	.350	.348	.367	46.96	5.16	5.4	5.9	4.7	5.7

Annual meteorological summary for the year ending December 31, 1922—Continued.

VALENTINE, NEBR.

[H_b=2,598 ft.; h_1=47 ft.; h_2=36 ft.; h_3=54 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	10.2	W.	40	NW.	1	5	4	3	4	6	7	18	15	0	17	6	8	9	7	14	9	0	0	20	0	31	0	0
February	8.9	W.	37	NW.	0	10	4	7	1	5	1	17	11	0	9	11	8	5	2	9	5	0	1	17	0	28	0	0
March	10.2	NW.	44	NW.	1	9	5	6	7	5	5	11	13	1	10	14	7	4	3	5	2	0	2	3	0	27	0	0
April	10.8	E.	51	S.	1	8	2	13	2	9	3	12	8	3	4	16	10	13	7	5	3	0	3	0	0	8	1	0
May	11.1	NW.	51	S.	2	9	3	9	6	7	3	11	14	0	7	16	8	13	9	0	0	1	0	0	0	0	4	0
June	8.8	E.	47	NW.	1	7	8	10	5	8	10	8	4	0	16	10	4	9	7	0	0	1	1	0	5	0	7	0
July	7.5	S.	49	NW.	1	10	7	9	4	10	7	8	6	1	11	13	7	12	12	0	0	3	0	0	7	0	10	0
August	7.9	S.	32	N.	0	8	4	13	5	14	3	8	7	0	19	7	5	8	4	0	0	0	0	0	15	0	6	0
September	8.5	S.	33	SW.	0	13	3	5	5	15	4	10	4	1	21	7	2	3	1	0	0	0	0	0	8	1	3	0
October	8.3	W.	36	S.	0	8	7	4	0	6	5	18	14	0	15	12	4	4	4	1	0	0	0	0	2	14	1	0
November	10.5	W.	46	NW.	3	11	1	4	5	3	4	19	13	0	11	10	9	6	5	6	4	0	4	2	0	23	1	0
December	8.3	W.	35	NW.	0	6	3	4	2	2	13	21	10	1	12	15	4	7	3	9	7	0	0	12	0	29	0	0
Year	9.3	W.	51	S.	10	104	51	87	46	90	65	161	119	7	152	137	76	93	64	49	30	5	11	54	37	161	33	0

VICKSBURG, MISS.

[H_b=247 ft.; h_1=65 ft.; h_2=58 ft.; h_3=73 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	8.0	NE.	26	SW.	0	12	20	4	10	5	3	3	5	0	4	7	20	16	14	0	0	0	2	0	0	2	1	0
February	8.8	S.	32	NW.	0	5	13	2	14	9	5	3	5	0	4	8	16	12	9	1	0	0	0	0	0	4	5	0
March	9.5	SE.	35	W.	0	11	5	4	21	5	6	2	8	0	13	5	13	14	13	1	0	0	0	0	0	3	11	0
April	8.3	S.	34	W.	0	4	10	6	13	17	4	4	2	0	6	15	9	12	10	0	0	0	0	0	0	0	6	0
May	6.0	SE.	49	NW.	1	4	9	5	16	9	12	3	4	0	5	17	9	13	10	0	0	0	1	0	0	0	9	0
June	4.8	SE.	28	NW.	0	6	7	8	13	3	11	7	5	0	11	10	9	13	10	0	0	0	1	0	11	0	11	0
July	5.3	SW.	36	NE.	0	2	6	4	9	15	17	5	4	0	5	19	7	10	9	0	0	0	0	0	10	0	17	0
August	5.1	N.	31	NE.	0	13	11	9	8	5	8	8	0	0	13	13	5	8	7	0	0	0	1	0	13	0	11	0
September	4.7	N.	18	NE.	0	17	11	6	12	7	2	2	2	1	17	11	2	3	1	0	0	0	0	0	9	0	7	0
October	5.7	N.	23	NE.	0	10	18	15	9	1	3	2	4	0	18	4	9	6	3	0	0	0	0	0	0	0	4	0
November	6.4	SE.	22	W.	0	10	16	2	21	2	4	1	4	0	10	7	13	8	7	0	0	0	0	0	0	0	3	0
December	7.8	NE.	25	SW.	0	10	10	3	13	10	11	0	5	0	9	3	19	14	13	0	0	0	1	0	0	2	8	0
Year	6.7	SE.	49	NW.	1	104	136	68	159	88	86	40	48	1	115	119	131	129	106	2	0	0	6	0	43	11	93	0

WALLA WALLA, WASH.

[H_b=991 ft.; h_1=57 ft.; h_2=50 ft.; h_3=65 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	3.6	S.	20	SE.	0	2	2	0	6	25	17	5	5	0	3	4	24	10	9	13	8	0	3	16	0	28	0	0
February	5.9	S.	32	SE.	0	0	2	0	8	21	16	8	1	0	2	9	17	10	7	11	6	0	0	7	0	20	0	0
March	6.3	S.	26	SW.	0	4	4	4	6	29	9	4	2	0	6	12	13	12	9	5	3	1	0	0	0	6	0	0
April	6.7	SW.	29	SW.	0	3	3	2	5	24	16	5	2	0	9	12	9	13	6	5	1	1	0	0	0	0	0	0
May	5.8	SW.	20	W.	0	3	4	4	5	20	14	8	4	0	16	9	6	5	3	0	0	0	0	0	1	0	0	0
June	4.9	SW.	26	SW.	0	1	2	5	2	19	13	14	3	1	22	7	1	3	2	0	0	0	0	0	13	0	2	0
July	4.9	SW.	19	W.	0	1	2	2	2	16	14	23	2	0	24	6	1	1	1	0	0	0	0	0	17	0	2	0
August	4.5	SW.	21	W.	0	3	2	3	11	13	12	16	1	1	16	9	6	6	5	0	0	0	0	0	15	0	2	0
September	4.5	S.	23	W.	0	1	2	3	8	19	8	18	1	0	19	9	2	5	3	0	0	0	0	0	5	0	2	0
October	3.8	S.	20	E.	0	3	2	4	11	21	10	9	1	1	16	4	11	6	4	0	0	0	0	0	0	0	1	0
November	3.0	S.	30	W.	0	11	5	4	9	16	6	6	3	0	4	2	24	9	6	2	2	0	4	3	0	13	0	0
December	5.9	S.	28	SE.	0	2	1	1	4	21	21	10	2	0	2	5	24	17	12	11	8	0	0	11	0	20	0	0
Year	5.0	S.	32	SE.	0	34	31	32	77	244	156	126	27	3	139	88	138	97	67	47	28	2	7	37	51	87	9	0

WASHINGTON, D. C.

[H_b=112 ft.; h_1=62 ft.; h_2=42 ft.; h_3=85 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	7.7	N.	38	NW.	0	17	8	8	3	5	8	4	14	0	7	7	17	9	7	7	5	0	1	9	0	26	0	0
February	7.4	N.	33	N.	0	15	3	6	3	9	6	4	10	0	3	12	13	14	12	4	2	0	0	3	0	13	1	0
March	8.0	NW.	40	NW.	1	10	7	5	5	7	8	4	16	0	8	8	15	14	12	3	1	0	0	1	0	9	2	0
April	7.7	NW.	35	NW.	0	11	9	5	6	4	10	3	12	0	8	10	12	9	8	0	0	0	0	0	0	0	2	0
May	5.7	SW.	24	SW.	0	11	4	7	11	9	11	7	2	0	11	9	11	11	9	0	0	0	0	0	0	0	5	0
June	5.8	SW.	33	NW.	0	3	6	1	12	3	14	5	16	0	8	13	9	12	11	0	0	0	0	0	2	0	10	0
July	5.0	SW.	40	SW.	1	8	8	6	6	10	14	8	3	0	7	14	10	15	14	0	0	0	0	0	7	0	12	0
August	4.9	SW.	24	S.	0	10	9	6	1	8	18	0	9	1	10	13	8	12	11	0	0	0	0	0	3	0	8	0
September	4.6	N.	23	W.	0	13	12	8	3	9	5	5	4	1	12	10	8	4	3	0	0	0	1	0	2	0	3	0
October	4.6	N.	28	N.	0	12	3	2	3	10	9	10	12	1	14	11	6	5	5	0	0	0	1	0	0	0	0	0
November	6.0	NW.	33	NW.	0	8	2	2	3	8	11	13	13	0	13	5	12	4	4	4	0	0	1	0	0	7	0	0
December	5.9	N.	28	NW.	0	14	11	7	2	7	7	4	10	0	5	9	17	13	10	5	3	0	7	2	0	21	0	0
Year	6.1	N.	40	NW.	2	132	82	58	57	89	121	67	121	3	106	121	138	122	106	23	11	0	11	15	14	76	43	0

Annual meteorological summary for the year ending December 31, 1922—Continued.

WAUSAU, WIS.

[φ=44° 57′ N.; λ=89° 35′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	28.772	29.400	28.158	5.5	16.0	....	20.5	1.2	10.8	36	−32	....	....	....	....	....	....	....	....	....	0.77	0.56	7.5	5.1	....	6.1
February	28.678	29.321	27.818	7.2	18.9	....	22.4	1.7	12.0	38	−25	....	....	....	....	....	....	....	....	....	2.79	1.19	6.6	4.2	....	5.0
March	28.724	29.191	28.048	23.0	35.1	....	37.6	20.4	29.0	55	−3	....	....	....	....	....	....	....	....	....	1.43	.56	5.4	5.0	....	5.3
April	28.671	29.166	27.796	38.5	47.4	....	51.0	32.9	42.0	68	17	....	....	....	....	....	....	....	....	....	3.71	1.49	5.7	6.2	....	6.2
May	28.637	29.168	28.035	56.0	68.5	....	70.9	50.1	60.5	85	41	....	....	....	....	....	....	....	....	....	2.61	.50	5.4	5.7	....	5.1
June	28.673	29.051	28.346	60.5	72.3	....	75.1	54.4	64.8	89	40	....	....	....	....	....	....	....	....	....	4.87	2.47	5.5	5.1	....	5.3
July	28.686	28.991	28.360	61.4	73.7	....	76.1	55.7	65.9	84	46	....	....	....	....	....	....	....	....	....	3.49	1.45	5.1	5.9	....	5.7
August	28.691	28.880	28.353	61.5	76.3	....	78.2	56.5	67.4	91	44	....	....	....	....	....	....	....	....	....	2.74	1.52	5.5	4.7	....	4.9
September	28.781	29.184	28.540	53.5	69.0	....	71.6	49.5	60.6	91	34	....	....	....	....	....	....	....	....	....	2.86	1.69	4.7	3.3	....	4.2
October	28.661	29.023	28.418	40.9	55.6	....	58.4	38.4	48.4	84	24	....	....	....	....	....	....	....	....	....	.54	.27	4.6	4.3	....	4.7
November	28.667	29.102	28.288	35.2	39.5	....	42.2	32.2	37.2	57	18	....	....	....	....	....	....	....	....	....	2.10	.74	8.8	8.6	....	8.5
December	28.680	29.148	28.220	12.6	19.9	....	23.9	8.3	16.1	39	−15	....	....	....	....	....	....	....	....	....	.56	.16	6.3	5.6	....	6.4
Year	28.693	29.400	27.796	38.0	49.4	....	52.3	33.4	42.9	91	−32	....	....	....	....	....	....	....	....	....	28.47	2.47	5.9	5.3	....	5.6

WICHITA, KANS.

[φ=37° 41′ N.; λ=97° 20′ W.]

January	28.669	29.162	28.110	31.5	32.4	34.1	39.1	22.4	30.8	63	3	20	23	23	80	69	65	0.115	0.128	0.129	0.88	0.31	5.0	6.8	5.6	6.3
February	28.611	29.096	28.067	28.8	39.5	40.9	46.9	24.8	35.8	76	5	20	19	21	68	46	48	.121	.114	.126	1.38	.79	4.0	5.0	5.1	5.4
March	28.508	29.007	27.986	38.1	47.2	50.4	54.1	35.5	44.8	77	1	33	36	36	82	68	60	.202	.227	.223	3.39	2.16	6.0	5.7	4.8	5.7
April	28.475	28.972	27.625	49.7	58.3	60.4	64.1	46.9	55.5	79	35	43	43	45	80	61	62	.289	.291	.315	6.12	1.78	5.7	5.4	6.2	5.9
May	28.459	28.726	28.077	60.3	70.6	70.8	74.7	57.6	66.2	83	48	55	54	57	84	59	63	.442	.440	.471	5.60	1.07	5.4	5.2	4.5	5.0
June	28.531	28.794	28.246	68.7	82.0	81.9	86.3	65.9	76.1	96	52	63	62	62	82	51	52	.577	.556	.566	3.99	1.39	4.9	4.1	2.8	3.9
July	28.548	28.840	28.210	70.7	83.3	82.3	87.2	67.8	77.5	95	60	66	68	68	85	61	61	.644	.680	.691	8.46	3.22	4.8	5.1	4.5	4.5
August	28.524	28.703	28.265	71.9	87.1	86.4	91.4	70.2	80.8	105	60	62	62	63	74	45	48	.573	.572	.585	2.12	.96	3.2	3.3	2.7	3.4
September	28.599	28.850	28.330	63.7	81.0	77.5	84.6	62.1	73.4	100	49	55	54	56	75	42	50	.449	.436	.460	2.00	.98	2.6	2.8	2.8	2.6
October	28.553	28.960	28.190	51.4	69.7	65.4	72.5	49.3	60.9	87	37	42	43	42	72	40	47	.286	.289	.290	2.59	1.66	3.4	2.3	1.7	2.7
November	28.640	29.000	28.110	41.5	52.0	50.6	56.5	38.7	47.6	72	28	35	36	37	77	55	62	.211	.224	.234	5.35	4.20	3.8	3.7	2.5	3.7
December	28.590	29.100	28.140	30.4	40.3	39.1	46.7	26.0	36.4	65	8	23	25	25	73	56	59	.137	.139	.141	.06	.06	3.2	4.3	2.7	4.1
Year	28.559	29.162	27.625	50.6	62.0	61.7	67.0	47.3	57.2	105	1	43	44	45	78	54	56	.337	.342	.353	41.94	4.20	4.3	4.5	3.8	4.4

WILLISTON, N. DAK.

[φ=48° 09′ N.; λ=103° 35′ W.]

January	28.019	28.680	27.480	4.3	11.4	10.5	17.7	−2.9	7.4	38	−36	2	5	6	87	75	81	0.053	0.061	0.063	0.51	0.23	5.5	5.9	5.3	6.4
February	28.093	28.710	27.440	−4.5	4.5	3.3	9.5	(*)	−.8	34	−26	−6	0	0	94	79	84	.034	.042	.041	.50	.16	4.8	4.9	5.7	5.5
March	27.970	28.500	27.516	19.8	30.2	30.6	34.3	16.7	25.5	51	−17	16	20	22	83	64	69	.094	.109	.121	.58	.44	7.0	6.8	6.7	6.9
April	27.977	28.370	27.440	34.4	47.8	48.5	53.0	32.6	42.8	79	19	29	31	32	82	55	57	.162	.173	.188	1.37	1.00	6.8	8.3	7.2	7.6
May	27.895	28.414	27.320	49.3	61.0	61.5	65.3	45.4	55.4	82	33	43	41	41	80	52	52	.284	.264	.269	2.64	1.11	7.1	6.8	6.5	6.7
June	27.948	28.330	27.560	57.3	71.3	73.2	75.8	53.6	64.7	91	45	51	50	51	81	51	48	.384	.376	.380	4.28	1.86	6.6	5.8	4.5	5.8
July	28.001	28.250	27.554	57.4	73.6	75.1	78.5	54.3	66.4	95	47	52	54	54	84	51	49	.395	.422	.428	3.18	1.13	5.1	5.4	4.8	5.1
August	27.952	28.220	27.680	59.2	77.6	79.6	82.9	56.3	69.6	98	41	52	52	51	78	44	39	.399	.410	.391	1.86	1.02	4.0	4.1	3.6	4.3
September	27.994	28.473	27.560	49.1	68.2	67.8	73.3	46.9	60.1	91	34	44	49	49	84	52	54	.296	.353	.359	1.91	.59	4.2	4.1	4.6	4.3
October	27.965	28.400	27.450	37.5	53.7	51.4	58.5	34.5	46.5	86	20	31	35	34	77	52	54	.173	.205	.199	1.06	.41	4.6	5.8	5.4	5.4
November	28.056	28.700	27.510	28.5	35.8	33.2	38.9	24.9	31.9	53	1	24	26	26	84	69	75	.133	.145	.142	1.37	.95	7.1	7.1	7.5	7.7
December	27.981	28.390	27.480	5.4	12.3	9.5	16.3	−.3	8.0	43	−26	3	7	6	89	78	83	.064	.071	.071	.74	.20	5.4	6.2	6.1	6.3
Year	27.988	28.710	27.320	33.1	45.6	45.4	50.3	29.2	39.8	98	−36	28	31	31	84	60	62	.206	.219	.221	20.00	1.86	5.7	5.9	5.7	6.0

WILMINGTON, N. C.

[φ=34° 14′ N.; λ=77° 57′ W.]

January	30.105	30.470	29.110	40.6	47.9	44.1	51.9	36.2	44.0	76	22	35	37	37	81	69	77	0.228	0.242	0.235	3.57	0.97	6.6	6.4	4.8	6.4
February	30.081	30.510	29.440	48.1	57.3	52.4	61.0	43.9	52.4	76	20	44	48	47	86	72	82	.312	.354	.342	3.15	1.72	6.7	7.3	5.3	7.0
March	30.068	30.394	29.501	52.9	61.8	57.0	65.5	48.2	56.8	79	35	47	46	48	80	60	73	.349	.350	.358	4.47	2.31	4.8	4.3	3.8	4.6
April	30.040	30.330	29.520	60.9	69.5	63.6	72.8	54.6	63.7	91	41	53	54	54	77	61	74	.434	.449	.442	3.26	1.32	5.2	5.3	4.6	5.0
May	29.920	30.340	29.450	68.1	77.0	70.5	78.9	62.1	70.5	89	49	62	62	64	82	60	80	.570	.560	.605	5.20	2.51	5.6	5.6	5.0	5.4
June	29.936	30.132	29.720	75.6	81.8	77.0	84.4	70.0	77.2	94	64	70	70	71	84	69	82	.736	.749	.756	7.67	1.14	5.6	5.9	5.9	5.6
July	29.988	30.180	29.810	78.2	84.0	78.1	86.3	72.6	79.4	91	67	73	72	73	84	68	85	.804	.782	.817	9.64	2.73	3.9	6.2	4.4	5.5
August	29.941	30.136	29.700	73.4	80.6	75.3	83.1	68.4	75.8	90	62	69	67	70	86	65	83	.711	.674	.728	5.42	1.37	4.3	5.3	5.6	5.5
September	29.993	30.230	29.750	70.2	79.0	72.9	80.7	66.5	73.6	90	58	66	65	67	86	64	81	.642	.636	.664	7.48	4.02	3.7	6.5	4.0	5.4
October	29.954	30.246	29.640	61.1	72.0	65.8	74.6	57.6	66.1	84	45	57	55	58	86	58	78	.492	.462	.516	6.40	2.57	3.9	4.0	3.3	4.1
November	30.077	30.410	29.450	48.1	61.7	55.7	64.6	44.8	54.7	80	29	43	44	46	82	53	70	.303	.308	.333	.46	.25	2.8	2.5	1.9	2.9
December	30.071	30.430	29.450	48.3	57.8	53.2	61.5	45.0	53.2	76	30	45	48	48	87	71	83	.314	.357	.352	3.81	.88	6.0	6.4	5.8	6.3
Year	30.014	30.510	29.110	60.5	69.2	63.0	72.1	55.8	64.0	94	20	55	56	57	83	64	79	.491	.492	.512	60.53	4.02	4.9	5.5	4.5	5.3

* −11.2, mean minimum temperature, Williston, February.

Annual meteorological summary for the year ending December 31, 1922—Continued.

WAUSAU, WIS.

[H_b=1,247 ft.; h_t=4 ft.; h_r=3 ft.; h_a=— ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.	*	*Mi.*																									
January	.....	NW.	....	.....	....	1	0	1	9	0	2	3	15	0	8	11	12	7	3	14	7	0	0	28	0	31	0	0
February	.....	NW.	....	.....	....	0	1	0	9	1	1	7	9	0	13	5	10	10	8	13	10	1	0	22	0	28	1	0
March	.....	SE.	....	.....	....	2	4	2	7	4	1	6	5	0	15	3	13	8	7	9	6	0	0	11	0	30	2	0
April	.....	NW.	....	.....	....	1	1	7	5	2	2	2	10	0	10	3	17	12	9	4	3	0	0	0	0	13	2	0
May	.....	E.	....	.....	....	3	5	6	4	3	3	6	1	0	15	3	13	13	10	0	0	0	0	0	0	0	4	0
June	.....	W.	....	.....	....	3	4	3	4	3	2	10	0	1	13	4	13	11	8	0	0	0	0	0	0	0	4	0
July	.....	SE.	....	.....	....	2	2	1	8	0	5	6	6	1	12	7	12	7	7	0	0	0	0	0	0	0	4	1
August	.....	N.	....	.....	....	8	3	2	3	2	3	5	5	0	13	6	12	8	7	0	0	0	0	0	4	0	5	0
September	.....	SW.	....	.....	....	5	2	1	4	3	7	3	5	0	17	4	9	11	8	0	0	0	0	0	1	0	4	0
October	.....	SE.	....	.....	....	3	1	0	12	0	3	6	6	0	14	5	12	5	4	1	0	0	0	0	0	7	0	0
November	.....	NW.	....	.....	....	1	3	2	7	2	5	3	7	0	4	1	25	14	8	5	3	0	0	5	0	18	0	0
December	.....	NW.	....	.....	....	2	1	2	8	3	1	5	9	0	9	5	17	9	7	15	8	0	0	23	0	31	0	0
Year	.....	SE.	....	.....	....	31	27	27	80	23	35	62	78	2	143	57	165	115	86	61	37	1	0	89	5	158	26	1

WICHITA, KANS.

[H_b=1,358 ft.; h_t=139 ft.; h_r=132 ft.; h_a=158 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	12.1	S.	47	S.	1	8	8	3	11	18	3	3	8	0	9	6	16	7	4	5	3	0	2	10	0	29	2	0
February	14.2	NE.	57	S.	3	9	14	4	12	7	1	2	7	0	9	11	8	5	3	5	2	0	0	3	0	21	1	0
March	16.1	S.	48	S.	6	9	7	4	10	18	2	3	9	0	9	10	12	10	8	5	3	3	0	2	0	9	5	0
April	15.0	SE.	66	S.	4	5	5	7	16	15	4	0	8	0	8	10	12	12	10	0	0	2	0	0	0	0	5	0
May	11.4	S.	46	SW.	2	9	13	10	3	15	5	1	6	0	13	10	8	14	13	0	0	1	0	0	0	0	8	0
June	11.1	S.	66	NW.	5	2	5	9	5	28	9	1	0	1	14	13	3	8	6	0	0	1	0	0	10	0	8	0
July	11.4	S.	68	N.	3	3	5	9	13	25	5	1	1	0	9	17	5	9	9	0	0	0	0	0	10	0	10	0
August	11.3	S.	38	N.	0	0	3	4	11	28	14	0	2	0	18	11	2	6	5	0	0	0	0	0	14	0	8	0
September	11.9	S.	33	S.	0	5	7	5	8	34	0	1	0	0	21	6	3	8	6	0	0	0	1	0	8	0	5	0
October	11.7	S.	50	SW.	3	12	6	3	5	30	4	1	1	0	20	7	4	5	5	0	0	0	0	0	0	0	4	0
November	13.9	S.	53	W.	3	10	2	3	6	22	5	4	8	0	16	7	7	7	5	0	0	0	0	0	0	4	4	0
December	12.8	S.	38	S.	0	9	15	1	8	16	4	1	8	0	18	5	8	1	1	1	0	0	3	5	0	21	0	0
Year	12.7	S.	68	N.	30	81	90	62	108	256	56	18	58	1	164	113	88	92	75	16	8	7	6	20	42	84	60	0

WILLISTON, N. DAK.

[H_b=1,878 ft.; h_t=41 ft.; h_r=33 ft.; h_a=48 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	7.4	W.	37	NW.	0	9	4	1	6	11	11	9	10	1	10	4	17	11	4	15	10	0	1	25	0	31	0	1
February	8.0	W.	30	NW.	0	5	7	3	6	4	12	12	6	1	11	5	12	6	5	12	6	0	0	26	0	28	0	1
March	9.4	SE.	36	SE.	0	7	4	5	13	8	11	8	6	0	5	11	15	5	2	9	5	0	0	8	0	31	0	0
April	8.5	SE.	40	NW.	1	8	14	7	10	4	7	2	5	3	1	11	18	12	6	9	6	1	0	0	0	15	2	3
May	12.3	SE.	45	NE.	2	7	7	5	13	1	8	10	11	0	7	8	16	15	10	2	2	1	0	0	0	0	4	0
June	7.7	NE.	56	W.	2	10	11	4	8	7	10	4	5	1	9	11	10	11	10	0	0	0	0	0	2	0	9	0
July	5.8	N.	28	SE.	0	12	13	7	10	6	3	3	8	0	9	15	7	12	11	0	0	0	0	0	2	0	12	0
August	7.3	SE.	44	NW.	1	12	4	6	14	9	4	9	1	3	15	10	6	11	7	0	0	0	1	0	5	0	10	5
September	6.7	SE.	29	SE.	0	9	4	7	10	7	9	10	3	1	13	12	5	10	6	0	0	1	1	0	2	0	5	5
October	6.9	SW.	29	W.	0	12	9	3	5	7	7	11	8	0	11	9	11	5	3	6	3	0	0	1	0	11	0	1
November	7.9	NW.	36	NW.	0	8	5	4	10	4	9	7	13	0	5	5	20	8	7	8	5	0	0	4	0	25	0	0
December	7.9	W.	32	W.	0	3	11	3	3	6	15	15	5	1	10	4	17	11	9	13	11	0	0	21	0	31	0	1
Year	8.0	SE.	56	W.	0	102	93	55	108	74	106	100	81	11	106	105	154	117	80	74	48	3	3	85	11	172	42	17

WILMINGTON, N. C.

[H_b=78 ft.; h_t=81 ft.; h_r=76 ft.; h_a=91 ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	9.4	N.	30	S.	0	14	14	2	0	2	14	11	5	0	9	6	16	9	9	3	1	0	4	1	0	10	0	0
February	8.2	SW.	43	W.	1	6	12	6	0	6	15	8	3	0	4	9	15	13	7	2	0	0	0	0	0	5	1	0
March	9.8	SW.	36	W.	0	6	10	4	2	9	18	12	1	0	13	9	9	10	8	0	0	0	0	0	0	0	1	0
April	10.0	SW.	35	SW.	0	7	10	7	2	6	16	12	0	0	13	6	11	11	9	0	0	0	0	0	1	0	2	0
May	8.0	SW.	28	SW.	0	4	10	13	1	7	15	11	0	1	9	12	10	11	7	0	0	0	1	0	0	0	9	0
June	7.2	SW.	36	SE.	0	3	3	3	2	11	23	14	1	0	8	12	10	19	17	0	0	0	0	0	2	0	14	0
July	6.5	SW.	35	W.	0	3	3	3	2	9	25	16	1	0	8	14	9	18	15	0	0	0	0	0	5	0	16	0
August	6.4	SW.	23	SW.	0	8	12	7	4	5	15	10	0	1	10	12	9	16	13	0	0	0	0	0	0	0	12	0
September	7.7	NE.	29	E.	0	10	24	8	1	2	7	5	2	1	9	13	8	9	7	0	0	0	1	0	1	0	5	0
October	6.9	NE.	22	SE.	0	8	22	5	3	10	4	8	2	0	16	5	10	10	10	0	0	0	4	0	0	0	2	0
November	6.0	N.	22	N.	0	15	8	5	0	3	9	10	7	3	19	7	4	5	3	2	1	0	1	0	0	3	0	0
December	7.9	SW.	24	SE.	0	5	16	5	2	2	17	13	1	1	9	6	16	16	12	0	0	0	1	0	0	3	1	0
Year	7.8	SW.	43	W.	1	89	44	68	19	72	178	130	23	7	127	111	127	147	117	7	2	0	12	1	9	21	63	0

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1922—Continued.

WINNEMUCCA, NEV.

[ϕ=40° 58′ N.; λ=117° 43′ W.]

Month.	Pressure.			Temperature.								Moisture.													
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	25.686	26.230	24.990	7.5	23.0	22.2	28.8	0.7	14.8	39	−18	5	16	16	89	74	74	0.060	0.094	0.088	1.15	0.66	4.0	4.0	4.6	4.2
February	25.562	25.000	25.090	20.8	32.5	31.9	36.4	15.4	25.9	48	−7	17	24	24	85	70	72	.101	.130	.130	2.10	.68	7.1	6.8	6.7	6.7
March	25.595	26.030	25.090	25.9	41.7	41.7	45.8	22.0	33.9	63	−2	21	25	24	81	51	51	.118	.132	.130	.79	.26	6.0	7.0	7.0	7.0
April	25.605	26.010	25.240	30.0	49.9	50.7	54.6	28.1	41.4	70	17	25	25	24	80	40	40	.131	.132	.131	.55	.22	4.2	6.4	5.6	5.1
May	25.616	25.870	25.140	40.6	65.0	66.6	70.3	38.5	54.4	84	22	30	28	27	66	27	24	.165	.155	.146	.47	.34	3.2	3.8	3.6	3.5
June	25.593	25.820	25.390	52.0	79.6	80.4	84.0	50.8	67.4	99	41	37	34	33	58	21	20	.222	.197	.191	.15	.14	2.9	2.2	2.9	2.4
July	25.670	25.800	25.440	54.3	86.5	85.7	90.1	52.7	71.4	99	44	36	38	36	52	20	19	.224	.243	.217	.36	.26	2.5	3.5	3.9	3.2
August	25.618	25.820	25.335	52.1	81.3	80.5	85.5	50.1	67.8	95	41	38	39	38	62	26	26	.248	.263	.242	.91	.33	2.6	2.7	3.0	2.5
September	25.658	25.890	25.410	45.1	78.8	77.0	82.4	42.5	62.4	91	32	28	32	32	51	19	20	.151	.183	.182	.00	.00	.7	.3	.7	.7
October	25.623	25.936	25.300	34.9	62.5	59.8	66.7	31.4	49.0	82	11	26	29	28	69	32	33	.139	.162	.150	.31	.26	2.4	3.4	3.7	3.7
November	25.704	26.050	25.120	22.7	43.5	39.6	48.3	19.0	33.6	62	6	18	24	24	82	46	53	.100	.126	.127	.52	.27	3.3	5.0	5.0	4.7
December	25.640	26.050	25.100	27.5	34.8	33.4	38.7	23.1	30.9	50	2	24	27	27	86	73	77	.128	.146	.146	1.91	.83	7.9	8.3	8.9	8.1
Year	25.631	26.230	24.990	34.4	56.6	55.8	61.0	31.2	46.1	99	−18	25	28	28	72	42	42	.149	.164	.157	9.22	.83	3.9	4.4	4.6	4.3

WYTHEVILLE, VA.

[ϕ=36° 56′ N.; λ=81° 05′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	27.731	28.080	26.858	28.6	34.9	33.2	40.1	25.0	32.6	59	10	24	26	27	81	70	77	0.138	0.150	0.155	2.96	0.93	7.2	6.0	5.1	7.2
February	27.702	28.000	27.300	35.7	43.0	40.1	47.6	31.6	39.6	68	11	32	34	32	85	71	75	.195	.218	.199	3.12	1.55	6.7	7.3	6.9	7.5
March	27.698	28.032	27.186	40.6	49.1	47.0	55.0	36.5	45.8	73	24	34	35	37	78	63	69	.210	.226	.233	4.74	1.28	6.5	6.6	5.7	6.4
April	27.730	28.004	27.140	49.0	58.5	56.2	63.9	43.7	53.8	81	29	41	43	43	76	58	63	.275	.295	.291	2.51	1.14	5.5	5.5	4.2	4.8
May	27.659	28.030	27.080	57.4	68.0	63.3	71.8	51.2	61.5	84	38	52	53	52	84	62	70	.399	.412	.403	4.53	1.27	5.1	5.5	6.0	4.8
June	27.688	27.900	27.480	65.6	74.9	70.4	78.8	59.4	69.1	86	47	60	61	62	84	63	76	.538	.538	.561	7.09	2.27	6.0	6.1	5.5	5.3
July	27.742	27.898	27.550	67.1	76.9	71.9	81.0	62.4	71.7	87	55	64	64	65	89	66	79	.592	.600	.615	4.07	1.43	5.5	5.9	7.0	5.1
August	27.710	27.950	27.490	62.2	73.0	67.4	76.5	57.3	66.9	83	46	59	59	60	88	63	78	.498	.508	.522	2.52	.90	5.1	5.3	5.2	5.1
September	27.783	27.980	27.573	57.8	74.0	66.8	78.2	53.0	65.6	87	41	54	55	57	87	53	72	.426	.446	.475	.74	.45	2.7	3.6	2.8	3.5
October	27.687	28.000	27.350	47.1	64.9	56.3	68.1	43.0	55.6	84	30	41	44	44	81	49	65	.277	.300	.307	4.61	2.81	3.2	2.7	2.5	3.2
November	27.748	28.030	27.170	36.8	49.7	44.8	53.3	33.9	43.6	67	20	31	34	34	79	56	65	.185	.212	.208	.86	.52	4.2	4.4	3.7	4.6
December	27.705	28.020	27.103	36.1	43.5	40.0	48.2	31.4	39.8	62	18	32	34	33	84	70	76	.192	.205	.199	3.85	1.36	6.9	6.4	6.0	6.7
Year	27.715	28.080	26.858	48.7	59.2	54.8	63.5	44.0	53.8	87	10	44	45	46	83	62	72	.327	.342	.347	41.51	2.81	5.4	5.4	5.0	5.4

YANKTON, S. DAK.

[ϕ=42° 54′ N.; λ=97° 28′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	28.798	29.440	28.190	13.6	22.4	....	27.9	8.6	18.2	46	−11	10	14	....	86	70	....	0.074	0.090	.....	1.77	0.86	3.9	5.1	....	5.3
February	28.773	29.540	28.060	9.3	17.9	....	26.2	4.3	15.2	45	−13	6	11	....	84	72	....	.062	.077	.....	.74	.60	4.4	4.8	....	5.2
March	28.680	29.370	28.110	29.4	41.2	....	40.8	26.7	36.8	71	2	25	28	....	82	62	....	.139	.159	.....	.93	.45	6.7	6.7	....	6.5
April	28.664	29.130	28.070	41.8	54.6	....	60.0	39.5	49.8	73	27	36	38	....	79	55	....	.214	.234	.....	1.37	.97	6.8	6.6	....	6.5
May	28.589	28.962	28.140	55.9	68.0	....	72.5	51.8	62.2	87	42	50	51	....	80	58	....	.346	.397	.....	1.77	.41	5.2	7.5	....	6.5
June	28.626	28.990	28.220	66.0	79.3	....	84.4	61.5	73.0	98	44	59	59	....	79	52	....	.504	.505	.....	2.62	1.40	5.1	4.5	....	5.2
July	28.674	28.970	28.302	65.3	77.4	....	82.2	61.9	72.0	95	50	60	61	....	82	59	....	.519	.544	.....	3.17	1.12	6.2	6.2	....	5.5
August	28.636	28.811	28.310	67.8	83.3	....	88.2	64.9	76.6	102	51	61	62	....	80	51	....	.551	.570	.....	.96	.72	3.6	4.3	....	4.1
September	28.711	29.140	28.300	58.5	76.7	....	81.8	56.1	69.0	101	40	50	50	....	76	42	....	.380	.369	.....	.85	.74	4.6	3.6	....	4.3
October	28.649	29.040	28.120	44.6	62.8	....	68.1	42.0	55.0	91	24	37	39	....	76	44	....	.234	.257	.....	.73	.67	3.8	4.5	....	4.5
November	28.700	29.120	27.950	36.3	43.8	....	48.1	32.8	40.4	68	21	30	33	....	79	68	....	.177	.199	.....	2.57	1.16	5.9	5.8	....	6.3
December	28.733	29.230	28.040	16.1	25.6	....	31.9	11.2	21.6	54	−16	12	17	....	83	68	....	.085	.100	.....	.20	.20	4.1	4.5	....	5.3
Year	28.686	29.540	27.950	42.0	54.4	....	59.8	38.4	49.2	102	−16	36	39	....	80	58	....	.276	.292	.....	17.68	1.40	5.0	5.3	....	5.4

YELLOWSTONE PARK, WYO.

[ϕ=44° 58′ N.; λ=110° 42′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	23.806	24.330	23.250	9.1	15.9	14.5	20.8	4.2	12.5	39	−23	6	8	9	84	70	76	0.056	0.062	0.065	0.74	0.20	5.6	5.0	6.7	5.7
February	23.736	24.162	23.267	9.8	19.4	17.7	23.7	2.1	12.9	39	−25	6	10	10	85	66	69	.061	.072	.070	1.84	.53	6.2	7.0	6.4	6.5
March	23.759	24.150	23.400	20.4	31.9	30.8	36.4	16.6	26.5	47	−18	14	16	17	74	51	54	.086	.093	.096	.66	.12	5.2	6.3	6.5	5.9
April	23.788	24.150	23.310	25.5	39.4	38.8	43.4	23.0	33.2	62	4	20	22	21	80	50	49	.113	.118	.112	1.15	.37	5.7	5.9	6.1	6.0
May	23.869	24.210	23.310	36.7	51.9	51.2	55.6	33.7	44.6	75	25	29	29	29	78	43	45	.158	.160	.162	1.08	.33	6.2	5.6	6.2	6.1
June	23.937	24.200	23.630	45.0	69.2	68.7	73.3	42.4	57.8	86	29	36	36	36	71	31	32	.214	.211	.212	.56	.19	2.8	4.0	4.6	3.8
July	24.013	24.180	23.616	47.5	69.7	69.4	74.5	44.9	59.7	86	38	40	40	41	77	37	39	.252	.255	.260	1.46	.31	3.5	4.7	4.5	4.5
August	23.998	24.160	23.797	51.9	73.4	70.3	76.7	49.3	63.0	85	40	44	44	44	74	38	43	.294	.301	.298	1.60	.38	3.6	5.7	5.2	4.6
September	23.982	24.210	23.600	41.9	66.6	64.7	70.7	38.9	54.8	80	25	30	31	32	64	28	31	.172	.180	.184	.10	.08	1.8	2.5	2.9	3.0
October	23.919	24.140	23.560	34.8	51.9	49.6	56.8	30.6	43.7	76	20	22	24	24	59	36	40	.115	.124	.129	.34	.33	3.1	4.0	4.2	4.4
November	23.924	24.270	23.390	20.6	31.3	27.5	36.1	15.5	25.8	49	−1	16	19	19	80	59	68	.089	.102	.101	.96	.26	3.7	5.2	4.0	5.2
December	23.766	24.160	23.360	16.8	21.9	19.9	26.6	10.7	18.6	41	−16	12	15	14	80	72	77	.078	.087	.086	1.98	.83	6.3	7.6	7.4	8.3
Year	23.875	24.330	23.250	30.0	45.2	43.6	49.6	26.0	37.8	86	−25	23	24	25	75	48	52	.141	.147	.148	12.46	.83	4.5	5.1	5.4	5.3

Annual meteorological summary for the year ending December 31, 1922—Continued.

WINNEMUCCA, NEV.

[H_b=4,344 ft.; h_t=18 ft.; h_r=6 ft.; h_a=56 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	6.5	NE.	34	NW.	0	8	35	0	0	2	15	0	2	0	15	7	9	7	6	9	6	0	0	19	0	31	0	0
February	7.9	NE.	40	SW.	1	6	22	1	0	3	15	6	2	1	6	9	13	12	8	14	12	0	0	8	0	28	0	0
March	8.3	NE.	35	SW.	0	5	18	2	1	4	20	8	4	0	6	5	20	11	7	9	8	0	0	1	0	28	0	0
April	7.5	SW.	44	NW.	1	5	15	0	0	6	19	9	12	0	13	5	12	7	3	11	5	0	0	0	0	20	0	0
May	7.7	SW.	34	W.	0	5	15	1	1	2	22	9	7	0	18	7	6	6	3	3	2	0	0	0	0	9	1	0
June	6.8	SW.	32	SE.	0	4	18	0	1	6	19	5	7	0	20	8	2	3	1	0	0	0	0	0	7	0	2	0
July	6.0	SW.	38	NW.	0	3	11	0	1	1	24	9	13	0	19	6	6	4	2	0	0	1	0	0	16	0	5	0
August	5.7	SW.	50	S.	2	4	10	2	1	5	26	10	4	0	23	4	4	5	5	0	0	0	0	0	9	0	4	0
September	6.0	SW.	25	NW.	0	4	17	1	0	1	23	9	4	1	27	3	0	0	0	0	0	0	0	0	5	0	0	0
October	6.0	SW.	37	SW.	0	7	18	0	2	3	17	7	8	0	17	6	8	2	2	0	0	0	0	0	0	15	0	0
November	5.9	NE.	27	SW.	0	4	27	2	2	3	16	2	2	2	13	8	9	6	5	5	3	1	0	0	0	27	0	0
December	6.8	SW.	50	SW.	1	1	18	0	0	2	30	6	2	3	4	3	24	13	10	10	9	0	0	5	0	29	0	0
Year	6.8	SW.	50	S.	5	56	224	9	9	38	246	74	67	7	181	71	113	76	52	61	45	2	0	33	37	187	12	0

WYTHEVILLE, VA.

[H_b=2,304 ft.; h_t=49 ft.; h_r=40 ft.; h_a=55 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
January	6.5	W.	30	SW.	0	4	5	17	0	0	3	21	10	2	7	4	20	10	7	8	5	0	2	8	0	24	0	0
February	7.0	W.	29	W.	0	3	9	6	1	0	3	22	11	1	4	7	17	15	11	6	4	0	3	4	0	13	0	0
March	7.9	W.	33	NW.	0	1	5	7	1	5	6	25	11	1	9	4	18	13	11	2	1	0	0	1	0	12	2	0
April	7.7	W.	36	SW.	0	2	9	8	4	0	8	19	9	1	10	12	8	11	8	0	0	1	1	0	0	2	0	0
May	5.4	W.	36	W.	0	3	3	10	9	3	6	19	9	0	13	9	9	14	12	0	0	0	1	0	0	0	8	0
June	4.7	W.	25	NW.	0	5	3	10	0	1	8	19	14	0	9	12	9	15	10	0	0	1	1	0	0	0	0	0
July	4.3	W.	22	W.	0	2	3	8	1	1	7	28	8	4	8	19	4	14	10	0	0	0	4	0	0	0	6	0
August	4.5	W.	44	E.	1	3	2	10	1	4	7	24	8	3	9	15	7	13	11	0	0	1	3	0	0	0	5	0
September	3.4	SE.	23	W.	0	6	5	10	14	0	0	4	17	4	15	13	2	2	2	0	0	0	1	0	0	0	3	0
October	4.7	NW.	24	SW.	0	8	5	9	0	3	3	17	14	3	20	5	6	7	5	0	0	0	1	0	0	1	1	0
November	7.1	W.	29	SW.	0	5	1	6	0	0	4	22	21	1	14	7	9	6	3	2	2	0	2	2	0	14	0	0
December	6.5	W.	28	W.	0	2	8	10	2	0	1	32	7	0	10	3	18	15	10	2	0	0	1	1	0	20	1	0
Year	5.8	W.	44	E.	1	44	58	111	33	17	56	252	139	20	128	110	127	135	100	20	12	3	20	16	0	86	35	0

YANKTON, S. DAK.

[H_b=1,233 ft.; h_t=49 ft.; h_r=42 ft.; h_a=57 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
January	9.0	NW.	36	NW.	0	2	3	1	6	2	5	5	7	0	11	11	9	7	5	10	7	0	0	15	0	31	0	0
February	9.4	W.	36	W.	0	1	2	1	1	0	2	10	10	1	9	11	8	4	3	7	3	0	1	18	0	28	1	0
March	9.1	NW.	32	NW.	0	1	1	5	4	2	4	3	9	2	5	13	13	5	5	5	3	1	0	3	0	27	1	0
April	9.2	NE.	33	S.	0	1	6	3	5	2	3	5	5	0	6	12	12	6	5	0	0	0	3	0	0	3	0	0
May	9.3	NW.	40	SW.	1	3	4	4	3	4	3	5	5	0	5	13	13	12	8	0	0	0	0	0	0	0	4	0
June	7.1	SW.	24	S.	0	1	1	5	1	2	7	4	7	2	8	14	8	9	6	0	0	0	1	0	8	0	9	0
July	6.1	NW.	32	S.	0	3	1	3	4	3	4	2	10	1	7	17	7	13	9	0	0	0	1	0	5	0	11	0
August	6.0	S.	30	NW.	0	3	1	6	3	7	4	2	2	3	14	13	4	7	4	0	0	0	0	0	15	0	4	0
September	6.9	S.	30	S.	0	2	2	2	6	7	1	5	4	1	11	16	3	4	2	0	0	0	0	0	7	0	3	0
October	6.6	NW.	32	NW.	0	1	1	3	1	3	3	8	9	2	13	11	7	5	1	0	0	0	1	0	1	5	1	0
November	10.3	W.	41	SW.	1	3	0	1	5	2	4	9	6	0	7	9	14	8	7	2	2	0	0	1	0	15	0	0
December	7.7	W.	33	NW.	0	2	4	3	2	3	2	11	4	0	11	10	10	2	2	9	2	0	1	14	0	29	0	0
Year	8.1	NW.	41	SW.	2	23	26	37	41	37	42	69	78	12	107	150	108	82	57	33	17	1	8	51	36	138	34	0

YELLOWSTONE PARK, WYO.

[H_b=6,200 ft.; h_t=11 ft.; h_r=4 ft.; h_a=48 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
January	9.1	S.	27	N.	0	7	0	1	7	25	18	2	2	0	9	10	12	9	5	20	9	* 0	0	28	0	31	0	0
February	8.4	S.	42	S.	1	4	1	2	3	18	15	9	4	0	4	12	12	14	11	22	14	0	0	22	0	28	0	0
March	10.0	S.	37	S.	0	3	1	1	2	22	23	5	5	0	6	15	10	13	8	17	13	0	0	8	0	29	0	0
April	8.7	S.	48	SW.	1	3	2	0	3	20	14	5	13	0	8	11	11	14	10	19	12	0	0	4	0	29	0	0
May	9.3	S.	43	S.	1	3	2	0	1	20	15	7	14	0	5	15	11	15	9	9	8	0	0	0	0	14	1	0
June	7.0	SW.	35	S.	0	6	2	0	1	20	17	4	10	0	16	11	4	8	5	0	0	0	0	0	0	1	4	0
July	6.6	SW.	39	NW.	0	7	2	0	1	13	19	6	14	0	12	12	7	12	9	0	0	2	0	0	0	0	11	0
August	7.5	S.	44	SW.	1	2	0	1	1	23	26	5	4	0	12	13	6	15	12	0	0	1	0	0	0	0	13	0
September	7.4	S.	44	SW.	1	2	0	0	0	23	19	6	10	0	18	11	1	4	1	0	0	0	0	0	0	3	1	0
October	8.8	SW.	35	SW.	0	2	0	0	0	20	25	7	8	0	12	12	7	2	1	5	2	0	0	1	0	21	0	0
November	6.0	S.	31	N.	0	5	0	0	3	16	18	12	6	0	10	9	11	12	6	15	12	0	0	6	0	29	0	0
December	9.8	S.	40	S.	1	5	0	1	8	28	14	5	1	0	3	5	23	19	10	23	19	0	0	23	0	31	0	0
Year	8.2	S.	48	SW.	6	49	10	6	30	248	223	73	91	0	114	136	115	137	87	130	80	3	0	92	0	216	30	0

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1922—Continued.

YUMA, ARIZ.

[ϕ=32° 45′ N.; λ=114° 36′ W.]

Month.	Pressure.			Temperature.								Moisture.															
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.909	30.250	29.480	45.0	60.2	57.4	61.8	39.8	50.8	70	29	30	27	28	58	30	35	0.175	0.158	0.165	0.54	0.27	1.7	2.8	3.2	3.3
February	29.883	30.180	29.470	46.5	66.3	66.2	68.6	43.2	55.9	81	31	33	30	30	62	27	27	.196	.175	.172	.16	.11	1.5	3.3	3.6	3.3
March	29.845	30.240	29.429	50.3	70.4	72.4	74.4	46.6	60.5	87	35	33	30	29	53	24	21	.196	.174	.162	.22	.22	2.5	3.0	2.5	2.8
April	29.754	30.320	29.534	53.0	76.5	78.7	81.0	50.0	65.5	95	40	35	30	27	54	19	17	.212	.170	.152	.00	.00	1.1	1.2	1.5	1.4
May	29.661	30.020	29.410	62.2	91.2	92.2	95.3	59.8	77.6	108	45	44	36	37	54	15	15	.295	.212	.222	.05	.05	.9	1.5	1.3	1.2
June	29.611	29.840	29.451	71.9	98.1	100.4	103.2	69.8	86.5	115	58	56	48	52	59	20	21	.468	.367	.407	.09	.09	1.5	1.4	1.4	1.5
July	29.689	29.840	29.500	80.5	100.7	102.4	105.5	78.1	91.8	112	71	66	61	62	62	28	27	.644	.540	.557	T.	T.	3.1	1.9	2.0	2.0
August	29.636	29.890	29.418	80.1	100.1	99.6	104.6	77.9	91.2	113	70	71	65	64	74	33	34	.751	.617	.607	.12	.08	2.7	3.5	4.3	3.5
September	29.640	29.810	29.489	76.2	98.4	97.4	102.9	73.8	88.4	114	63	66	60	61	73	31	33	.659	.535	.555	1.11	1.03	1.5	1.2	1.9	1.3
October	29.697	29.950	29.500	61.0	87.2	82.7	89.6	57.8	73.7	101	42	46	42	44	60	21	27	.319	.274	.306	.00	.00	.3	.7	1.4	.9
November	29.865	30.110	29.480	48.0	71.6	65.1	72.8	43.8	58.3	80	34	38	37	38	68	31	38	.228	.228	.231	.66	.66	.8	.4	1.0	.9
December	29.924	30.190	29.723	49.8	68.5	62.9	69.5	45.1	57.3	74	36	43	49	47	79	52	58	.283	.360	.331	.08	.06	2.8	3.1	2.7	2.7
Year	29.760	30.250	29.410	60.4	82.4	81.4	85.8	57.1	71.5	115	29	47	43	43	63	28	29	.369	.318	.322	3.03	1.03	1.7	2.0	2.2	2.1

DUTCH HARBOR, ALASKA.

[ϕ=53° 55′ N.; λ=166° 30′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	† 29.468	30.266	28.256	* 32.5	.....	* 33.6	38.4	29.0	33.7	47	15	7.68	1.25	* 7.2	.....	* 8.0	...
February	29.928	30.826	29.186	31.1	.....	32.8	37.1	28.1	32.6	46	21	2.79	.40	7.6	.....	7.0	...
March	29.634	30.636	28.276	32.5	.....	35.5	40.1	29.6	34.8	48	15	12.07	2.40	8.8	.....	7.6	...
April	29.637	30.566	28.566	35.4	.....	36.9	42.3	32.0	37.2	48	22	5.65	1.10	5.1	.....	5.4	...
May	29.772	30.456	28.986	36.1	.....	38.7	42.7	34.0	38.4	51	29	3.25	1.75	9.4	.....	8.6	...
June	29.952	30.446	29.164	42.1	.....	46.1	49.7	40.1	44.9	59	36	1.80	.59	9.1	.....	8.0	...
July	30.116	30.566	29.426	49.1	.....	53.8	59.4	47.2	53.3	68	39	.90	.30	9.2	.....	7.6	...
August	29.820	30.136	29.306	47.2	.....	51.4	56.5	44.5	50.5	68	34	2.14	.50	5.6	.....	5.9	...
September	29.961	30.446	28.916	47.6	.....	50.1	55.1	44.9	50.0	70	38	.82	.15	6.0	.....	5.7	...
October	29.476	30.126	28.476	40.5	.....	41.6	46.1	37.4	41.8	58	28	6.76	1.03	9.0	.....	8.8	...
November	29.656	30.266	28.366	30.6	.....	33.9	38.7	29.7	34.2	50	18	4.86	2.06	7.6	.....	8.0	...
December	29.383	30.086	28.576	36.5	.....	37.6	40.4	34.5	37.4	46	18	15.62	2.12	7.1	.....	8.0	...
Year	29.734	30.826	28.256	38.4	.....	41.0	45.5	35.9	40.7	70	15	64.34	2.40	7.6	.....	7.4	...

EAGLE, ALASKA.

[ϕ=64° 46′ N.; λ=141° 12′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	† 29.053	29.835	28.200	* −1.6	.....	* −0.4	6.7	−9.8	−1.6	29	−51	0.41	0.13	* 6.7	.....	* 3.9	5.9
February	29.340	29.941	28.758	−10.2	.....	−3.9	2.3	−13.5	−5.6	17	−54	.07	.05	4.3	.....	3.4	4.4
March	29.125	29.799	28.390	−10.2	.....	5.6	15.0	−16.4	−0.7	36	−42	.08	.05	3.0	.....	3.9	3.6
April	28.990	29.672	28.440	27.8	.....	35.8	41.4	20.6	31.0	60	−11	.18	.16	5.8	.....	6.2	6.3
May	29.028	29.490	28.630	38.4	.....	47.4	52.5	28.3	40.4	85	10	.91	.33	6.5	.....	6.8	6.9
June	29.076	29.521	28.711	54.5	.....	60.4	66.1	42.3	55.0	82	30	2.12	1.03	5.6	.....	5.8	7.0
July	29.083	29.426	28.779	54.1	.....	60.5	65.9	44.2	55.0	78	30	1.92	.33	7.1	.....	7.0	8.1
August	28.966	29.350	28.608	50.5	.....	58.7	65.5	39.6	52.6	81	16	.65	.22	6.0	.....	5.8	6.2
September	29.002	29.361	28.529	33.8	.....	46.2	47.6	28.4	38.0	60	14	.54	.24	7.9	.....	6.9	7.5
October	28.894	29.233	28.299	28.2	.....	31.1	37.2	24.9	31.0	53	4	.32	.16	8.7	.....	7.6	7.7
November	28.930	29.396	28.238	5.2	.....	7.8	14.1	−2.1	6.0	36	−38	.57	.12	6.7	.....	5.7	6.9
December	29.230	29.871	28.570	−13.3	.....	−11.7	−6.0	−19.0	−12.5	18	−44	.30	.10	3.9	.....	4.4	4.8
Year	29.060	29.941	28.200	21.4	.....	27.6	34.0	14.0	24.0	85	−54	8.07	1.03	6.0	.....	5.6	6.3

KODIAK, ALASKA (RADIO STATION).

[ϕ=57° 47′ N.; λ=152° 22′ W.]

Month.	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	† 29.705	30.43	28.57	* 33.1	.....	* 32.5	36.7	26.8	31.8	42	10	2.10	0.39	* 6.0	.....	* 6.2	...
February	29.885	30.15	28.48	31.6	.....	32.9	36.3	27.2	31.8	44	10	1.53	.34	5.7	.....	5.6	...
March	29.678	30.19	28.69	30.4	.....	31.2	36.9	26.4	31.6	47	5	1.80	.80	5.3	.....	5.2	...
April	29.753	30.19	28.97	35.5	.....	37.1	41.6	31.6	36.6	50	24	.....	.....	6.1	.....	6.6	...
May	29.741	30.05	28.94	40.3	.....	41.2	48.3	35.7	42.0	57	29	3.59	.71	8.2	.....	7.4	...
June	30.014	30.40	29.42	48.4	.....	51.2	58.9	42.3	50.6	72	37	2.90	2.00	6.6	.....	5.3	...
July	30.047	30.17	29.39	53.7	.....	55.5	62.4	49.3	55.8	74	44	2.85	1.39	6.2	.....	6.8	...
August	29.801	30.24	29.07	50.8	.....	52.9	61.7	46.6	54.2	68	42	5.04	.....	6.2	.....	6.3	...
September	29.757	30.16	28.80	46.3	.....	49.1	57.0	42.8	49.9	66	36	.....	.....	5.7	.....	6.3	...
October	29.493	29.93	28.39	42.3	.....	43.2	52.3	39.5	45.9	58	27	9.53	1.40	8.1	.....	8.1	...
November	29.501	30.00	28.45	32.9	.....	32.9	40.3	25.4	32.8	49	6	.....	.....	4.9	.....	5.7	...
December	29.735	30.48	28.63	34.0	.....	34.5	37.9	29.9	33.9	49	16	2.97	.76	5.9	.....	6.9	...
Year	29.762	30.48	28.39	39.9	.....	41.2	47.5	35.3	41.4	74	5	.....	.....	6.2	.....	6.4	...

† No diurnal correction applied.

* 6 a. m. and 6 p. m., 165th meridian time, at Dutch Harbor; 8 a. m. and 7 p. m., 135th meridian time, at Eagle, except 5 p. m. in November and 4 p. m. in December; 7 a. m. and 7 p. m., 150th meridian time, at Kodiak.

Annual meteorological summary for the year ending December 31, 1922—Continued.

YUMA, ARIZ.

[H_b=141 ft.; h_t=9 ft.; h_r=2 ft.; h_a=54 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds, 8 a. m. and 8 p. m.† North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T. or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	7.2	N.	30	S.	0	29	5	2	4	4	3	8	7	0	18	10	3	6	5	0	0	0	0	0	0	3	0	0
February	6.0	N.	25	W.	0	13	11	4	2	7	2	11	6	0	17	8	3	3	1	0	0	0	0	0	0	1	0	0
March	6.6	N.	32	NW.	0	14	7	2	1	10	8	13	7	0	24	3	4	2	2	0	0	0	0	0	0	0	0	0
April	6.9	W.	31	NW.	0	10	2	0	7	8	12	16	4	1	26	3	1	0	0	0	0	0	0	0	6	0	0	0
May	5.6	W.	41	W.	1	9	5	1	1	3	18	18	6	1	25	5	1	1	1	0	0	0	0	0	26	0	0	0
June	5.0	SW.	22	SE.	0	1	1	0	3	11	26	13	1	4	25	4	1	1	1	0	0	0	0	0	30	0	2	0
July	5.7	SW.	27	S.	0	2	1	1	11	10	21	10	2	4	25	4	2	0	0	0	0	0	0	0	31	0	5	0
August	5.2	S.	30	SE.	0	1	1	5	14	15	19	4	0	3	15	14	2	2	2	0	0	0	0	0	30	0	7	0
September	4.2	SW.	30	N.	0	3	10	2	9	8	18	5	2	3	27	2	1	3	2	0	0	0	0	0	30	0	4	0
October	3.7	W.	19	W.	0	11	8	3	3	2	8	18	5	4	29	2	0	0	0	0	0	0	0	0	18	0	0	0
November	4.2	N.	21	N.	0	19	6	5	1	1	4	10	12	2	26	4	0	2	1	0	0	0	0	0	0	0	0	0
December	3.2	N.	17	W.	0	22	12	7	2	6	1	7	4	1	21	7	3	2	1	0	0	0	1	0	0	0	0	0
Year	5.3	SW.	41	W.	1	134	69	32	58	85	140	133	56	23	278	66	21	22	16	0	0	0	1	0	171	4	18	0

DUTCH HARBOR, ALASKA.

[H_b=13 ft.; h_t=4 ft.; h_r=3 ft.; h_a=— ft.]

January		*SE.				1	4	0	18	4	9	5	6	15				27	23					4	0	19		
February		SE.				8	2	2	12	0	6	4	6	16				21	13					2	0	26		
March		SE.				1	3	7	19	3	7	6	8	8				23	21					3	0	18		
April		SE.				0	5	5	13	4	12	8	6	7				26	22					0	0	16		
May		NW.				1	4	4	18	1	1	6	16	11				23	15	7	(?)			0	0	11		
June		SE.				1	6	5	15	5	5	1	3	19				10	6	0	0		2	0	0	0		
July		SE.				0	10	4	11	6	6	0	2	23				10	7	0	0		4	0	0	0		
August		SE.				4	4	2	10	7	3	1	6	25				16	12	0	0			0	0	0		
September		S.				7	1	0	2	20	11	6	5	8				9	7	0	0			0	0	0		
October		N.				11	2	0	8	8	5	7	7	14				(?)	(?)	(?)	(?)			0	0	4		
November		NW.				6	0	0	11	0	4	8	16	15				22	14	(?)	(?)			6	0	18		
December		SE.				3	2	13	17	0	0	0	2	25				24	21	(?)	(?)			3	0	12		
Year		SE.				43	43	42	154	58	69	52	83	186										18	0	124		

EAGLE, ALASKA.

[H_b=815 ft.; h_t=4 ft.; h_r=3 ft.; h_a=— ft.]

January		*E.				9	10	11	0	1	0	9	1	21	11	4	16	7	5	11	7			31	0	31		7
February		E.				6	5	23	0	0	0	7	3	12	14	2	12	2	1	7	1			28	0	28		14
March		W.				3	3	8	0	0	0	15	1	32	18	4	9	3	1	7	3			26	0	31		5
April		E.				4	3	20	1	1	1	19	1	10	8	6	16	3	1	9	3			4	0	28		8
May		N.				14	5	11	1	3	1	14	2	11	8	3	20	8	5	4	0			5	0	18		
June		E.				13	4	16	4	1	0	15	3	4	6	4	20	14	9	0	0			0	0	1	2	
July		E.				12	6	20	4	3	1	10	1	5	2	8	21	24	14	0	0	0	0	0	0	2	2	0
August		E.				5	6	15	3	2	0	14	0	17	10	4	17	11	5	2	1	0	0	0	0	5		8
September		W.				4	3	10	1	0	1	25	2	14	5	5	20	8	4	5	3		0	2	0	21		10
October		E.				3	6	17	6	0	0	11	0	19	6	3	22	8	2	8	6			12	0	22		4
November		W.				9	2	15	2	0	0	17	2	13	5	9	16	10	0	13	10			27	0	30		8
December		NE.				12	12	10	0	0	0	11	2	15	14	3	14	6	3	8	6			31	0	31		6
Year		E.				94	65	176	22	11	4	167	18	173	107	55	203	104	56	74	40			166	0	248		

KODIAK, ALASKA (RADIO STATION).

[H_b= 15 ft.; h_t=6 ft.; h_r= 3 ft.; h_a=— ft.]

January		*SE.				0	12	1	13	1	9	2	13	11				18	11	7	(?)			4	0	23		
February		NW.				0	5	3	11	0	4	9	13	11				13	11	10	(?)			5	0	24		
March		NW.				1	15	1	4	0	7	7	22	5				6	6	4	(?)			8	0	21		
April		SE.				1	8	6	13	8	4	3	11	6										0	0	19		
May		NW.				11	16	4	5	1	0	4	16	5				18	16	3	(?)			0	0	6		
June		SE.				1	10	9	10	7	2	3	5	13				(?)	(?)	0	0			0	0	0		
July		S.				5	5	2	13	15	3	8	1	10				9	(?)	0	0			0	0	0		
August		SE.				4	3	3	16	7	4	7	12	6						0	0			0	0	0		
September		NW.				8	3	6	3	7	7	4	10	12										0	0	0		
October		SE.				4	8	9	17	3	5	5	7	4										0	0	9		
November		SW.				3	11	4	5	4	12	11	7	3										4	0	25		
December		NE.				0	15	9	13	1	8	2	13	1										4	0	18		
Year		NW.				36	111	57	123	54	65	65	130	87										25	0	145		

* By eye observations at this station.

† At the observation hours at Dutch Harbor, Eagle, and Kodiak; see preceding page.

Annual meteorological summary for the year ending December 31, 1922—Continued.

NOME, ALASKA.

[ϕ=64° 30′ N.; λ=165° 24′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	Maximum.	Minimum.	Monthly.	Maximum.	Minimum.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	8 a. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	† In.	In.	In.	* °	°	* °	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	*		*	
January	29.734	30.299	29.071	8.2	....	8.2	12.4	2.7	7.6	38	−31	....	....	....	....	....	....	....	....	....	2.87	1.16	6.7	....	6.8	7.1
February	30.029	30.775	28.990	6.7	....	7.9	15.8	0.1	8.0	34	−33	....	....	....	....	....	....	....	....	....	2.66	.70	7.0	....	7.6	7.9
March	29.966	30.740	29.100	2.6	....	8.8	13.1	−1.3	5.9	34	−32	....	....	....	....	....	....	....	....	....	T.	T.	4.9	....	4.4	4.4
April	29.710	30.300	29.033	19.0	....	23.0	28.1	15.0	21.6	39	−14	....	....	....	....	....	....	....	....	....	1.55	.40	7.8	....	7.1	7.0
May	29.914	30.251	29.443	26.7	....	32.1	35.5	21.6	28.6	49	2	....	....	....	....	....	....	....	....	....	.34	.11	3.9	....	3.6	4.3
June	29.928	30.520	29.270	39.2	....	42.1	45.4	36.2	40.8	56	29	....	....	....	....	....	....	....	....	....	2.00	.60	9.5	....	9.9	9.3
July	29.888	30.330	29.380	43.8	....	46.2	49.6	40.1	44.8	58	34	....	....	....	....	....	....	....	....	....	6.20	1.46	7.5	....	8.5	7.7
August	29.716	30.208	29.210	43.5	....	47.7	51.0	41.1	46.0	66	28	....	....	....	....	....	....	....	....	....	5.44	1.86	7.6	....	7.5	7.7
September	29.772	30.100	29.386	38.6	....	44.4	46.8	36.5	41.6	55	22	....	....	....	....	....	....	....	....	....	3.28	1.18	7.9	....	6.9	7.5
October	29.582	30.230	29.019	29.1	....	31.5	35.7	26.1	30.9	48	18	....	....	....	....	....	....	....	....	....	1.90	.56	5.9	....	6.7	6.5
November	29.715	30.340	28.600	9.1	....	10.1	16.1	2.3	9.2	34	−25	....	....	....	....	....	....	....	....	....	1.85	.72	3.6	....	4.5	....
December	29.833	30.480	28.990	14.9	....	13.9	20.2	8.6	14.4	35	−32	....	....	....	....	....	....	....	....	....	1.40	.86	3.8	....	4.5	....
Year	29.816	30.775	28.600	23.4	....	26.3	30.8	19.1	25.0	66	−33	....	....	....	....	....	....	....	....	....	29.49	1.86	6.3	....	6.5	....

SITKA, ALASKA.

[ϕ=57° 04′ N.; λ=135° 20′ W.]

January	† 29.828	30.500	29.104	* 33.0	....	* 34.0	40.0	29.0	34.5	53	15	....	....	....	....	....	....	....	....	....	9.56	2.24	* 7.1	....	* 6.8	6.6
February	29.844	30.235	28.940	26.5	....	28.1	38.4	22.5	30.4	49	8	....	....	....	....	....	....	....	....	....	2.83	1.44	5.2	....	4.4	4.8
March	29.610	30.257	28.838	34.1	....	34.2	43.0	27.6	35.3	49	17	....	....	....	....	....	....	....	....	....	5.28	1.84	5.7	....	6.5	5.9
April	29.888	30.370	29.470	40.0	....	38.8	47.2	32.9	40.0	55	25	....	....	....	....	....	....	....	....	....	8.35	1.45	7.5	....	8.0	7.6
May	29.804	30.380	29.060	47.8	....	46.0	54.6	38.1	46.4	77	30	....	....	....	....	....	....	....	....	....	3.22	.93	6.1	....	6.8	5.7
June	30.008	30.339	29.659	53.2	....	51.8	60.8	44.0	52.4	71	40	....	....	....	....	....	....	....	....	....	1.12	.36	6.6	....	5.7	5.8
July	30.080	30.396	29.771	54.1	....	53.5	61.0	48.3	54.6	73	42	....	....	....	....	....	....	....	....	....	3.06	.82	9.0	....	7.8	7.4
August	29.884	30.254	29.258	63.7	....	60.0	63.7	50.0	56.8	71	43	....	....	....	....	....	....	....	....	....	7.17	1.35	7.8	....	8.0	7.5
September	29.716	30.256	28.850	50.5	....	49.8	57.5	44.5	51.0	66	36	....	....	....	....	....	....	....	....	....	13.25	2.96	7.7	....	8.8	8.0
October	29.712	30.186	28.790	45.7	....	45.1	54.4	39.7	47.0	63	30	....	....	....	....	....	....	....	....	....	6.61	1.65	7.5	....	7.6	7.0
November	29.620	30.144	28.750	40.5	....	41.7	47.6	36.2	41.9	59	28	....	....	....	....	....	....	....	....	....	11.33	2.16	8.5	....	8.2	7.7
December	29.738	30.302	29.010	31.1	....	31.2	38.1	26.0	32.0	48	15	....	....	....	....	....	....	....	....	....	4.15	1.57	6.2	....	4.5	5.5
Year	29.811	30.500	28.750	43.4	....	42.0	50.5	36.6	43.5	77	8	....	....	....	....	....	....	....	....	....	75.93	2.96	7.1	....	6.9	6.6

TANANA, ALASKA.

[ϕ=65° 10′ N.; λ=152° 06′ W.]

January	† 29.685	30.384	28.827	* −4.7	....	* −2.7	3.2	−11.6	−4.2	29	−40	....	....	....	....	....	....	....	....	....	0.53	0.14	* 5.9	....	* 6.1	6.6
February	29.968	30.700	29.188	−6.6	....	0.1	5.4	−12.4	3.5	30	−45	....	....	....	....	....	....	....	....	....	.30	.14	6.5	....	6.4	6.3
March	29.780	30.480	28.983	−8.1	....	4.8	13.0	−12.7	0.2	38	−43	....	....	....	....	....	....	....	....	....	.11	.05	4.0	....	3.3	3.4
April	29.602	30.240	28.900	23.8	....	31.8	37.2	18.5	27.8	53	−15	....	....	....	....	....	....	....	....	....	.27	.05	6.4	....	6.7	5.8
May	29.664	29.946	29.290	38.7	....	47.9	52.6	29.9	41.2	77	10	....	....	....	....	....	....	....	....	....	.26	.16	6.4	....	5.8	5.5
June	29.746	30.252	29.300	51.0	....	58.1	62.8	42.7	52.8	72	31	....	....	....	....	....	....	....	....	....	1.22	.26	7.0	....	6.6	....
July	29.710	30.069	29.300	50.6	....	57.0	61.1	44.7	52.9	76	32	....	....	....	....	....	....	....	....	....	5.80	.92	8.4	....	7.5	8.0
August	29.589	30.017	29.160	48.5	....	57.5	63.2	41.5	52.4	76	21	....	....	....	....	....	....	....	....	....	1.20	.25	6.5	....	6.7	6.6
September	29.642	29.980	29.127	36.2	....	42.1	49.5	31.9	40.7	60	10	....	....	....	....	....	....	....	....	....	2.03	.62	6.0	....	6.6	6.4
October	29.465	29.958	28.926	26.4	....	28.7	32.7	24.1	28.4	48	9	....	....	....	....	....	....	....	....	....	2.13	.75	7.4	....	7.3	7.4
November	29.566	30.241	28.964	1.5	....	3.3	7.9	−5.2	1.4	28	−42	....	....	....	....	....	....	....	....	....	.55	.25	5.6	....	5.1	5.3
December	29.792	30.423	29.064	−3.8	....	−5.0	2.1	−10.7	−4.3	25	−39	....	....	....	....	....	....	....	....	....	.13	.08	3.1	....	2.7	2.8
Year	29.684	30.700	28.827	21.1	....	27.0	32.6	15.1	23.8	77	−45	....	....	....	....	....	....	....	....	....	14.62	.92	6.1	....	5.9	....

VALDEZ, ALASKA.

[ϕ=61° 07′ N.; λ=146° 16′ W.]

January	† 29.828	30.660	28.769	* 21.4	....	* 21.5	26.5	15.3	20.9	34	2	....	....	....	....	....	....	....	....	....	5.14	0.76	* 7.3	....	* 6.9	7.2
February	29.995	30.380	29.290	19.4	....	21.6	31.3	14.0	22.6	51	−4	....	....	....	....	....	....	....	....	....	.76	.39	5.1	....	4.8	5.0
March	29.749	30.490	28.980	20.5	....	22.8	32.4	15.0	23.7	42	−1	....	....	....	....	....	....	....	....	....	1.64	.50	3.7	....	3.7	3.6
April	29.868	30.410	29.240	32.5	....	33.8	42.9	26.2	34.6	53	15	....	....	....	....	....	....	....	....	....	5.84	1.55	6.8	....	6.2	6.4
May	29.856	30.394	29.120	43.1	....	45.4	53.1	34.8	44.0	68	24	....	....	....	....	....	....	....	....	....	1.68	.44	6.5	....	6.7	6.0
June	30.050	30.409	29.690	50.6	....	52.4	58.2	43.7	50.9	69	37	....	....	....	....	....	....	....	....	....	.51	.26	7.5	....	7.3	7.0
July	30.062	30.290	29.810	51.3	....	54.2	59.7	45.2	54.2	75	37	....	....	....	....	....	....	....	....	....	5.44	1.21	7.5	....	7.0	6.8
August	29.874	30.300	29.450	48.9	....	50.2	55.9	44.1	50.0	63	33	....	....	....	....	....	....	....	....	....	8.26	1.32	8.1	....	8.1	7.8
September	29.784	30.331	28.960	44.0	....	46.6	54.5	38.7	46.6	63	28	....	....	....	....	....	....	....	....	....	1.23	.28	6.6	....	5.9	5.6
October	29.696	30.182	28.860	36.6	....	39.0	45.0	34.2	39.6	54	22	....	....	....	....	....	....	....	....	....	9.34	2.43	7.9	....	8.4	8.1
November	29.604	30.110	28.560	27.4	....	27.9	32.8	22.9	27.8	42	7	....	....	....	....	....	....	....	....	....	7.12	1.07	7.4	....	7.2	7.1
December	29.879	30.590	29.000	16.2	....	17.0	22.9	9.5	16.2	36	−10	....	....	....	....	....	....	....	....	....	1.42	.87	4.5	....	5.2	4.9
Year	29.854	30.660	28.560	34.3	....	36.0	42.9	28.6	35.9	75	−10	....	....	....	....	....	....	....	....	....	48.38	2.43	6.6	....	6.4	6.3

† No diurnal correction applied.

* 6 a. m. and 6 p. m., 165th meridian time, at Nome, except 5 p. m. in November and December; 8 a. m. and 8 p. m., 135th meridian time, at Sitka; 7 a. m. and 7 p. m., 150th meridian time, at Tanana and Valdez, except at Tanana 6 p. m. in December.

Annual meteorological summary for the year ending December 31, 1922—Continued.

NOME, ALASKA.

[H_b=22 ft.; h_t=5 ft.; h_r=6 ft.; h_a=49 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	Number of winds at observation hours. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.04 inch and over.	Snow. T or more.	0.01 inch or more melted.	Hail.	Dense fog.	Maximum temp. 32° or below.	90° or above.	Minimum temperature 32° or below	Electricity. Thunderstorms.	Auroras.
	Miles.	*	*Mi.*																									
January	10.2	NE.	47		2	9	22	16	2	3	0	2	4	4	6	5	20	14	11	25	(?)			25	0	30		4
February	9.6	E.	63		1	4	17	13	4	2	3	3	1	9	4	3	21	11	9	20	(?)			20	0	28		2
March	7.6	NE.	29		0	15	20	13	0	0	2	0	8	4	15	5	11	0	0	4	0			29	0	31		[illegible]
April	11.9	NE.	48		2	6	16	13	9	1	4	4	3	4	6	6	18	11	9	21	11			15	0	30		
May	7.5	N.	41		1	19	10	9	3	7	2	3	0	9	15	6	10	5	4	7	(?)			11	0	26		
June	7.6	NE.	27		0	4	17	7	8	1	13	7	2	1	0	1	29	18	11	2	0			0	0	3	0	
July	9.7	SW.	40		1	3	3	2	7	6	24	10	5	2	6	3	22	21	17	0	0		0	0	0	0	0	
August	9.9	SW.	41		1	10	8	4	11	5	12	7	5	0	3	7	21	18	11	0	0		1	0	0	4		
September	9.0	NE.	36		0	9	10	10	8	6	7	5	4	1	5	4	21	19	14	1	(?)			0	0	9		2
October	10.4	NE.	43		2	19	21	10	7	2	0	1	1	1	8	8	15	10	9	4	0			9	0	20		2
November	10.2	NE.	48		2	15	23	0	2	0	2	1	17	0	17	0	13	10	9	15	10			29	0	0		
December	11.6	NE.	45		1	13	32	5	0	0	0	5	6	1				11	7	11	9		0	28	0	31	0	2
Year	9.6	NE.	63		13	126	199	102	61	33	69	48	56	36				148	111	110				172	0	212		

SITKA, ALASKA.

[H_b=90 ft.; h_t=3 ft.; h_r=2 ft.; h_a=— ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below	Thunderstorms.	Auroras.
January		* E.				2	2	18	7	2	0	3	3	25	8	5	18	17	17	9	(?)			1	0	23		
February		NE.				0	20	14	2	0	1	1	0	18	14	2	12	6	6	6	(?)			8	0	26		
March		E.				2	6	20	6	0	2	4	1	21	9	8	14	13	12	12	(?)			0	0	28		
April		E.				6	0	11	7	3	4	3	4	22	6	4	20	22	22	6	(?)			0	0	14		
May		SE.				2	4	9	12	3	8	4	10	10	10	6	15	11	10	2	(?)			0	0	4		
June		NW.				1	1	1	0	2	5	9	19	22	11	5	14	9	8	0	0			0	0	0		
July		W.				0	0	0	2	0	7	12	7	34	8	2	21	18	17	0	0			0	0	0		
August		E.				0	2	10	3	2	5	5	5	30	3	9	19	21	20	0	0			0	0	0		
September		E.				4	2	16	6	2	2	2	4	22	3	8	19	23	19	0	0			0	0	0		
October		E.				1	5	23	5	3	0	0	0	25	5	8	18	21	19	1	0?			0	0	1		
November		E.				2	2	26	6	2	1	3	6	12	6	1	23	25	24	1	(?)			0	0	9		
December		E.				7	14	18	1	1	0	5	0	16	12	5	14	12	12	7	6			3	0	26		
Year		E.				27	58	166	57	20	35	51	59	257	95	63	207	198	186	44				12	0	129		

TANANA, ALASKA.

[H_b=242 ft.; h_t=4 ft.; h_r=3 ft.; h_a=— ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below	Thunderstorms.	Auroras.
January		* E.				7	13	18	5	1	3	11	3	1	4	16	11	9	5	14	9			31	0	31		5
February		E.				0	15	16	3	1	1	14	3	3	9	3	16	9	4	8	9			28	0	28		4
March		E.				4	13	27	5	2	1	5	5	0	20	7	4	3	2	4	3			28	0	31		11
April		E.				4	7	19	6	1	7	6	10	0	6	15	9	8	5	8	(?)			9	0	25		
May		E.				6	7	25	10	0	2	8	4	0	10	13	8	3	2	2	(?)			4	0	18		
June		W.				0	2	3	12	4	13	16	10	0	3	11	16	11	8	0	0			0	0	2		
July		SW.				1	0	4	10	6	28	14	5	0	0	11	20	23	17	0	0			0	0	1	0	0
August		SW.				2	5	11	4	9	12	6	8	0	2	14	15	19	8	0	0		1	0	0	4	1	0
September		E.				4	14	15	9	1	4	5	8	0	6	9	15	19	12	4	3		1	0	0	15	0	1
October		E.				7	20	27	3	0	0	0	4	1	5	7	19	17	11	11	9		0	14	0	24	0	2
November		NE.				3	16	10	4	0	0	13	6	8	9	11	10	10	5	16	10		0	30	0	30	0	0
December		NE.				2	18	23	0	0	0	5	5	9	19	10	2	4	1	6	4		1	31	0	31	0	11
Year		E.				40	130	198	76	25	65	103	71	22	93	127	145	135	80	73				175	0	240		

VALDEZ, ALASKA.

[H_b=27 ft.; h_t=4 ft.; h_r=6 ft.; h_a=— ft.]

Month.	Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	Days with 40 miles and over.	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.	Dense fog.	32° or below.	90° or above.	Minimum temperature 32° or below	Thunderstorms.	Auroras.
January		* NE.				17	35	0	0	1	3	0	0	6	9	1	21	15	15	19	15		1	30	0	31		
February		N.				29	25	0	0	0	0	0	0	2	15	0	13	7	5	10	7			15	0	27		1
March		N.				16	38	0	0	2	5	0	0	1	18	5	8	10	6	11	10			15	0	31		
April		NE.				15	27	0	0	4	10	0	0	4	10	3	17	16	14	16	11			0	0	28		
May		SW.				9	17	0	0	4	28	0	0	4	5	16	10	15	9	0	0			0	0	9		
June		SW.				0	0	0	0	10	45	0	0	5	7	5	18	9	4	0	0			0	0	0		
July		SW.				3	8	0	0	16	28	0	0	7	8	5	18	18	16	0	0			0	0	0		
August		SW.				12	15	0	0	10	16	0	0	9	5	2	24	22	20	0	0			0	0	0		
September		NE.				24	26	0	0	5	4	0	0	1	12	6	12	10	7	1	0			0	0	6		
October		NE.				19	26	0	0	2	7	0	0	8	4	4	23	23	21	3	2			0	0	13		
November		NE.				19	24	3	0	1	10	0	0	3	8	2	20	20	16	20	17			12	0	29		
December		E.				14	13	22	4	3	4	0	0	2	14	6	11	6	4	12	6			29	0	31		
Year		NE.				177	254	25	4	58	160	0	0	52	115	55	195	171	137	92	68			101	0	205		

* By eye observations at this station.

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PART IV.

MONTHLY AND ANNUAL PRECIPITATION, 1922 (ALL STATIONS)—MONTHLY AND SEASONAL SNOWFALL, SEASON 1922-23 (SELECTED STATIONS)—MONTHLY AND ANNUAL EVAPORATION, 1922.

The precipitation values given in the following tables have been taken largely from the records of unpaid cooperating observers. Most of these observers have standard rain gauges, the remainder having gauges similar in pattern to the standard.

Occasionally the record for a station may be incomplete from various causes, either for a single storm or for a longer period. Where conditions were favorable, the missing data have been supplied by interpolation from the records of near-by stations. The monthly amounts in such cases are inclosed in brackets to show that some portion has been estimated.

The discrepancies between the amounts recorded by separate observers when two reports are received 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 as early as 6 o'clock a. m., whereas the other may defer it to 9 p. m. or later, thus sometimes causing a difference in the amounts recorded on the first and last days of the month.

The monthly and seasonal amounts of snowfall for the winter of 1922-23 are given for selected stations in the United States and Canada.

The monthly and annual amounts of evaporation during the year 1922 follow the snowfall, this being the fourth year that this series of reports has included them. The number of these reports at the present time is small, records appearing from only about half of the States.

The evaporation measurements are all made from cylindrical pans, 4 feet in diameter, 10 inches deep, placed on framework laid on the ground, and exposed as far as possible to full sunshine. A description of equipment and methods of observation appears in the Monthly Weather Review of December, 1916, pages 674 to 677.

Monthly and annual precipitation (in inches and hundredths) for 1922.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Alabama.													
Alaga	3.10	6.10	7.35	1.60	6.05	6.45	5.80	1.10	4.70	3.55	0.20	6.10	52.10
Anniston	5.83	6.98	8.76	6.09	5.28	5.49	5.20	1.40	0.44	1.99	1.83	7.05	56.34
Auburn	6.94	7.86	12.64	2.72	5.12	7.23	1.99	5.70	0.38	1.58	1.41	6.97	60.54
Bay Minette	7.02	7.01	7.80	1.29	8.11	3.12	4.45	7.50	1.50	3.19	1.50	11.55	64.04
Benton	9.95	7.81	12.79	3.64	7.64	3.23	.....	2.31	2.01	5.10	0.68	7.36	.....
Birmingham	6.20	5.02	7.14	6.64	3.42	3.82	5.23	2.95	1.54	1.81	2.59	7.63	53.99
Bridgeport	7.10	4.37	10.61	4.77	6.57	7.97	4.07	3.31	1.06	1.15	1.57	9.02	61.57
Calera	6.38	6.03	8.68	3.23	5.84	3.52	5.24	1.71	2.10	2.10	3.86	5.80	54.49
Camp Hill	6.76	6.97	13.74	4.17	7.75	2.50	3.86	3.96	0.32	3.55	1.61	6.33	61.52
Centerville	7.51	7.65	9.75	3.96	4.39	3.60	5.21	3.86	1.68	2.08	4.73	7.32	61.74
Citronelle	8.75	6.47	10.49	3.90	9.16	3.76	6.48	5.84	1.94	2.27	.....	6.80	.....
Clanton	7.79	6.78	8.09	5.30	5.92	4.17	5.65	1.91	2.43	2.14	3.16	5.02	58.36
Cochrane	6.98	4.95	11.42	5.36	6.82	3.07	2.45	5.65	0.00	3.90	3.97	9.82	64.39
Dadeville	6.65	7.28	13.00	4.32	6.41	4.69	2.36	3.90	0.25	5.53	2.48	4.79	61.66
Decatur	5.60	3.92	10.71	4.77	4.55	3.68	4.21	3.21	0.97	0.76	1.34	7.85	51.57
Demopolis	8.00	5.91	8.01	4.10	4.37	3.27	5.21	6.09	0.14	1.16	2.46	5.61	54.33
Eufaula	5.80	4.96	5.94	4.27	6.71	7.39	3.35	2.47	1.96	4.23	1.06	9.49	57.63
Evergreen	7.71	4.94	8.89	6.21	6.83	1.93	6.45	3.38	2.43	4.08	0.65	6.58	60.08
Fayette	.....	.....	.....	.....	.....	4.61	3.09	2.44	1.73	0.81	3.99	9.43	.....
Florence	7.07	5.34	9.92	6.69	5.40	4.68	3.32	3.23	0.85	1.22	1.87	7.86	57.45
Fort Deposit	7.10	6.25	7.82	3.65	6.78	4.41	3.42	2.09	4.01	4.20	0.76	4.55	55.04
Gadsden	7.75	6.20	11.59	7.38	6.22	4.94	3.47	2.30	1.05	1.99	1.74	10.01	64.64
Goodwater	7.86	8.16	9.19	5.36	6.64	2.63	3.39	2.95	0.67	4.49	1.89	3.95	57.18
Greensboro	7.31	7.81	7.54	3.02	4.99	3.30	3.32	6.28	0.00	0.60	1.08	7.85	53.10
Greenville	6.76	6.26	11.83	3.51	7.29	1.83	4.56	2.48	2.06	3.41	0.91	8.82	59.72
Guntersville	9.37	4.50	11.16	5.14	8.50	3.12	2.00	1.19	0.56	1.87	1.82	7.50	56.73
Healing Springs	5.10	6.52	11.73	2.88	4.59	6.26	.....	.....	0.35	T.	0.55	6.07	.....
Helena	6.72	5.91	9.78	5.23	6.34	3.58	2.61	2.27	2.59	1.28	2.43	7.33	56.07
Highland Home	7.60	5.42	10.49	1.97	8.78	1.35	5.09	2.04	1.09	2.54	1.01	6.21	53.59
Leeds	6.34	4.62	8.24	7.17	7.05	5.36	3.61	1.07	1.63	2.59	2.46	6.05	56.19
Lock No. 4	7.30	5.89	10.35	6.98	8.45	4.41	3.21	2.95	0.25	2.68	2.22	9.18	63.87
Madison	5.86	5.04	11.92	5.22	6.26	3.61	5.75	3.11	1.25	1.46	1.42	9.41	60.31
Maple Grove	9.20	6.53	11.45	7.24	6.44	4.49	4.78	2.43	1.10	3.17	1.33	9.22	67.38
Marion	9.94	7.26	9.85	2.97	7.60	0.59	2.61	2.93	0.32	1.28	1.75	4.82	52.01
Mentone	10.07	5.10	10.83	5.38	7.25	7.43	4.53	4.23	0.97	2.75	0.98	10.18	69.70
Milstead	7.84	9.39	11.55	2.39	8.57	2.72	5.53	3.32	0.75	3.65	2.21	7.41	65.33
Mobile	6.79	5.65	11.46	0.92	8.31	2.03	9.57	5.13	3.19	4.61	3.98	9.10	70.74
Montgomery	6.94	6.69	11.38	2.89	5.89	1.21	4.01	2.15	2.56	3.26	1.27	6.82	55.07
Ozark	5.20	5.37	6.96	3.08	5.99	2.67	3.41	2.47	2.67	3.58	0.58	8.65	50.63
Prattville	7.21	7.10	13.11	2.74	4.42	1.79	4.39	2.87	0.55	4.09	0.95	6.56	55.78
Primrose Farm	5.61	5.07	10.83	3.05	5.68	1.56	2.82	1.91	4.30	2.83	0.69	4.15	48.50
Pushmataha	8.39	9.04	8.24	4.33	6.90	3.03	6.00	2.43	1.47	1.75	2.84	4.64	59.06
Riverton	5.52	4.70	11.44	5.86	3.54	2.54	3.29	2.86	0.40	0.71	3.51	6.91	51.28
Robertsdale	5.59	6.39	5.95	0.61	11.71	5.53	6.52	5.21	2.07	5.83	2.50	9.61	67.52
Scottsboro	7.69	3.87	6.77	6.25	5.46	5.15	4.89	3.89	1.08	1.45	1.35	.....	.....
Selma	5.83	6.33	12.61	2.55	5.57	1.71	4.16	4.16	0.97	3.60	1.32	5.55	54.36
Silverhill	6.07	6.46	6.95	1.56	10.30	5.57	5.72	7.88	4.13	2.97	2.16	8.79	68.56
Spring Hill	5.80	6.24	12.16	1.39	9.03	5.04	12.85	7.03	2.78	4.20	3.13	8.63	78.28
St. Bernard	7.79	6.21	12.63	8.14	7.02	3.72	3.44	2.31	1.68	3.61	1.99	10.84	69.38
Talladega	7.00	7.40	10.85	7.00	8.63	5.69	3.69	1.74	4.00	2.45	2.28	6.74	67.47
Tallassee	6.29	6.14	11.57	2.22	5.34	1.59	4.29	4.02	1.05	2.94	.....	6.50	.....
Thomasville	6.72	6.41	13.98	2.90	8.99	0.99	4.32	1.93	1.01	1.36	2.30	4.95	55.86
Troy	7.20	4.98	9.24	2.09	9.10	1.49	2.14	1.85	1.24	2.59	0.57	11.31	53.80
Tuscaloosa	7.28	4.78	8.74	4.46	4.51	5.49	4.45	3.22	2.02	1.39	2.32	6.35	55.01
Tuscumbia	6.38	5.22	10.52	6.18	5.65	3.80	3.58	3.59	0.53	0.99	1.85	7.30	55.59
Tuskegee	7.26	4.07	10.35	2.56	7.07	T.	2.17	2.40	0.54	0.88	2.22	7.49	47.01
Union Springs	6.62	5.80	9.11	2.11	8.33	0.93	2.14	1.31	0.69	2.14	1.47	5.99	46.64
Uniontown	6.64	7.30	.....	2.98	4.83	1.11	6.56	4.45	0.30	1.19	1.94	7.01	.....
Valley Head	10.41	4.74	9.05	5.49	8.78	6.00	6.77	2.85	1.40	2.55	0.97	10.48	69.49
Wetumpka	6.78	7.14	12.29	3.23	5.90	1.53	1.76	1.63	3.11	2.57	1.96	5.65	53.55
Alaska.													
Akiak	1.06	0.44	0.36	0.81	0.38	.....	.....	.....	.....	.....	1.21	1.10	.....
Akulurak	.....	.....	.....	.....	0.20	1.43	2.25	3.76	1.84	1.10	.....	.....	.....
Allakaket	1.20	0.86	T.	0.24	0.09	1.66	4.34	1.69	0.83	1.70	1.91	0.15	14.67
Anchorage	1.41	0.49	0.66	0.66	0.13	0.58	3.60	1.33	1.61	0.73	.....	0.16	.....
Aniak	1.53	0.89	0.60	.....	0.63	2.56	.....	.....	.....	.....	.....	.....	.....
Annex Creek	9.80	2.99	4.24	9.22	4.97	2.17	5.68	.....	12.19	10.97	17.21	3.55	.....
Barrow	0.13	0.36	0.09	0.19	0.03	0.63	2.44	0.59	0.38	1.20	0.54	0.46	7.04
Bonanza Mine	.....	0.90	0.50	.....	.....	0.50	5.70	8.00	2.28	3.03	1.84	0.60	.....
Calder	17.09	3.43	6.90	8.36	7.75	1.57	2.95	4.69	16.51	14.44	23.43	4.18	111.30
Candle	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.49	0.07	.....
Chickaloon	1.25	0.30	0.50	0.85	0.06	0.06	2.42	1.66	0.53	1.59	0.82	.....	.....
Chitina	1.15	0.61	0.06	0.41	0.34	0.25	1.12	2.81	0.82	1.41	1.38	0.45	10.81
Copper Center	.....	.....	.....	.....	.....	1.19	1.22	2.30	0.78	0.27	1.34	0.50	.....
Cordova	13.83	4.73	5.78	17.55	4.72	3.47	20.08	20.29	6.28	28.27	26.79	4.08	155.87
Dillingham	2.05	0.56	0.06	1.57	.....	.....	(1)	(1)	[1] 10.28	2.53	2.87	1.49	.....
Dutch Harbor (Radio Station)	7.68	2.79	12.07	5.65	3.25	1.80	0.90	2.14	0.82	6.76	4.86	15.62	64.34
Eagle	0.41	0.07	0.08	0.18	0.91	2.12	1.92	0.65	0.54	0.32	0.57	0.30	8.07
Fairbanks (near)	0.69	0.55	0.19	0.10	0.72	0.81	5.39	0.63	1.26	0.84	0.34	0.30	11.82
Fortmann Hatchery	12.63	5.71	15.12	10.39	10.97	1.49	2.52	4.19	19.65	17.09	25.36	8.43	133.55
Fort Yukon	0.22	0.24	0.45	0.10	0.12	0.08	2.14	.....	.....	0.22	0.40	.....	.....
Healy	.....	.....	.....	0.86	0.72	3.37	3.26	2.38	1.23	.....	0.26	.....	.....
Holy Cross	.....	.....	0.87	.....	.....	.....	.....	3.52	2.66	2.43	2.10	0.40	.....
Iliamna	4.67	0.43	1.75	.....	3.00	.....	5.17	5.19	2.23	7.12	.....	2.46	.....
Juneau	11.56	3.83	5.08	10.88	5.13	2.67	3.16	9.20	10.32	6.49	11.43	2.16	81.91
Kake	5.35	1.49	2.63	4.43	3.36	0.96	2.03	2.49	3.72	3.61	3.62	1.47	35.16
Katalla	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13.35	3.70	.....
Kennecott	2.93	0.97	0.45	0.60	1.57	1.23	3.13	6.03	1.00	3.44	2.15	0.75	24.25
Ketchikan	14.14	4.26	15.71	12.94	10.56	1.67	2.63	5.86	16.64	20.77	29.86	9.39	144.43
Killisnoo	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.17	.....
Kodiak (Radio Station)	2.10	1.53	1.80	.....	3.59	2.90	2.85	5.04	.....	9.53	.....	2.97	.....
Kodiak (Experiment Station)	2.91	2.79	1.40	6.07	8.73	3.83	4.90	5.54	2.20	8.15	4.07	3.18	53.77
Latouche	.....	.....	5.20	.....	9.73	.....	.....	.....	.....	.....	.....	.....	.....
Matanuska	1.45	0.59	1.17	0.80	0.28	0.92	3.27	2.41	1.54	1.77	1.01	0.04	15.25

[1] The amount entered for September is the accumulated total for July, August, and September.

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Alaska—Continued.													
Mount Roberts (Radio Station)							5.17	11.26	10.97	7.78			
Mount Roberts (Experiment Station)							9.11	15.81	14.97				
Nenana	0.50	0.43	0.17	0.17	0.53	0.99	7.10	0.89	1.78	0.52	0.26	0.18	13.52
Nome	2.87	2.66	T.	1.55	0.34	2.00	6.20	5.44	3.28	1.90	1.85	1.40	29.49
Noorvik	1.17	1.34	T.	0.52	0.20	1.47	3.04	4.82	1.83	1.84	1.26	0.28	17.77
Nulato	1.35	0.76	0.53	1.38	0.04	1.81	2.65	2.69	1.59	2.65	1.97	0.30	17.72
Paxson				0.35				3.04			0.47		
Rampart	0.66	0.75	0.24	0.09	0.08	0.75	3.64	0.41	0.73	2.13	0.80	0.17	10.65
Ruby	0.93	0.90	0.39		0.18	1.93	7.42						
St. Paul Island	1.71	0.91	1.15	1.28	0.86	1.29	1.60	1.94	4.72	2.67	2.88	1.12	22.13
Seldovia												1.76	
Seward	4.41	1.21	1.31	7.74	3.81	1.64	4.38	8.49	1.86	14.89	9.17	4.49	63.12
Shaktoolik	0.37	0.61	0.08	0.36								0.42	
Shismaref			0.06										
Sitka	9.56	2.83	5.28	8.35	3.22	1.12	3.06	7.17	13.25	6.61	11.33	4.15	75.93
Skagway	3.12	1.51	1.71	1.62	0.92	1.00	0.58	3.06	4.38	3.17	4.83	0.31	26.19
Speel River								12.65	13.61	12.89	18.18	5.63	
Talkeetna	2.99	1.26	1.32		0.22	0.99	11.68	3.01	2.39	6.16	1.77	0.38	
Tanana	0.53	0.39	0.11	0.27	0.26	1.22	5.80	1.20	2.03	2.13	0.55	0.13	14.62
Tunnel							4.74						
Unga		1.07	4.90										
Valdez	5.14	0.76	1.64	5.84	1.68	0.51	5.44	8.26	1.23	9.34	7.12	1.42	48.38
White Mountain	1.47	1.19	0.07	0.67	0.17		3.82	3.25	1.96	1.10	1.31	0.77	
Wrangell											12.37	4.09	
Yakutat	8.27	5.24	4.49	13.58	5.74	1.21	10.66	17.43	9.99	13.59	16.69	3.51	110.40
Arizona.													
Ajo	1.05	0.44	1.28	1.29	0.13	T.	0.80	2.03	0.34	0.01	0.56	0.89	8.73
Alamo Ranger Station	2.78	0.69	1.36	1.00	0.13	0.83	1.73	1.97	0.38	0.17	2.16	0.42	13.62
Alpine	1.38	0.50	1.90		0.18	2.50	3.66	2.84					
Ashdale Ranger Station	7.60	2.80	3.10				0.66		0.50		4.00	2.20	
Ashfork	2.36	0.28	1.59	0.15	0.42	0.69	1.94	2.84	1.26	0.51	1.32	0.51	13.87
Avondale	1.78	0.62	1.08	0.12	0.34	0.15	0.69	0.26	0.40	0.00	1.10	0.45	6.99
Baboquivari										0.14	1.50	0.10	
Benson	T.	0.00	0.60	0.30	T.	T.	2.90	3.18	1.87	0.20	0.20	T.	9.25
Big Springs Ranger Station							1.73	4.93	1.43	1.28			
Bisbee	1.48	0.14	0.67	0.27	0.10	1.87	4.61	7.40	1.22	0.51	1.46	0.38	20.11
Blue	2.58	2.79	1.03		0.22	1.16	3.55	4.73	0.52	1.17	3.06	0.48	
Bly Ranger Station		0.60											
Bowie	0.48	0.32	1.03	0.41	0.05	0.74	1.34	2.98	0.39	0.26	0.66	0.40	9.06
Buckeye	1.60	1.73	0.71	0.00	0.36	0.48	0.52	0.65	0.71	T.	0.60	0.26	7.62
Canon	5.36	0.78	1.63		0.41	0.12	1.01	2.73	3.73	0.16	1.60	1.50	
Casa Grande	0.63	0.42	1.12	0.78	0.00	T.	0.10			T.	0.38	1.76	
Cedar Glade	1.54	0.48	1.50	0.47	0.32	0.55	1.15	1.98	1.37	0.35	0.77	0.47	10.95
Chandler	1.27	0.62	1.19	0.54	0.21	0.20	0.67	1.15	1.35	0.02	1.30	0.24	8.76
Childs	5.34	1.97	2.97	0.09	1.30	0.73	2.29			0.30	3.07	0.70	
Chin Lee	0.62	T.	0.67	0.02	0.29	0.23	1.46	2.27	T.	0.23	0.43	0.05	6.27
Clemenceau	1.97	0.60	1.87	0.01	0.57	0.43	0.70	0.81	0.84	0.22	1.00	0.20	9.22
Clifton	1.02	0.12	0.15	0.38	T.	0.61	0.44	1.99	1.29	T.	0.30	0.07	6.37
Cochise	0.96	0.20	0.74	0.15	0.06	1.51	1.85	2.33	0.83	0.29	0.65	0.16	9.73
Constellation	3.65	1.12	2.01	T.	0.57	0.73	1.17	1.33	3.65	0.08	1.13	0.63	16.07
Continental	1.40	0.29	1.15	0.56	0.21	0.89	3.18	2.67	0.51	0.20	0.49	0.32	11.87
Cosnino	4.23	0.50	1.48	0.47	0.52	0.77	0.70	4.95	0.40	0.70	2.80	1.60	19.12
Crown King	9.30	1.60	3.50	0.85	1.00	0.54	4.80	4.10	1.02	1.00	0.65	0.80	29.16
Douglas	0.35	0.00	0.47	0.13	0.10	0.31	6.29	2.07	0.73	0.00	0.83	0.28	11.56
Dudleyville	2.13	0.42	0.90	1.08	0.17	0.20	1.41	2.77	0.68	0.11	1.12	0.32	11.31
Elgin	1.27	0.12	0.87	0.49	0.06	1.01	4.75	4.34	2.55	0.17	0.73	0.16	16.52
Fairbank	0.53	0.10	0.38	0.38	0.05	1.15	1.37	2.22	1.47	0.22	0.28	T.	8.15
Flagstaff	4.78	1.08	3.25	0.97	1.20	1.83	2.28	3.24	1.56	1.07	2.31	1.50	25.07
Florence	1.49	0.30											
Fort Apache	2.98	0.62	2.06	1.18	0.25	0.50	1.27	3.90	0.31	0.50	1.76	0.97	16.30
Fort Grant	1.43	0.25	0.50	0.28		0.20	1.27	3.02	2.22		0.68		
Fort Valley	4.45	1.85	3.11	1.54	1.23	1.31	1.16	2.53	1.40	1.63	2.64	1.87	24.72
Gila Bend	0.57	0.40	0.84	0.15	0.00	0.20	0.70	2.20	0.30	0.00	0.20	0.15	5.71
Gisela	4.36	0.89	2.26	0.43	0.81	0.48	0.58	1.38	0.56	T.	3.90	1.60	17.25
Globe	1.92	0.64	1.48	1.09	0.02	1.76	2.27	1.32	0.47	0.25	2.34	0.28	13.84
Goodyear	0.73	0.59	1.09	0.33	0.03			0.52	0.38	0.00	1.05	0.20	
Gould's Ranch	1.35	0.63	0.82	0.35	0.45	0.05	0.51	0.50	0.30	0.00	1.00	1.85	7.81
Grand Canyon	2.79	1.88	1.22	0.66	0.59	0.29	1.41	2.54	1.28	0.85	1.81	1.13	16.45
Granite Reef Dam	2.16	0.59	2.08	0.33	0.31	0.10	0.45	1.38	0.29	0.00	1.53	0.57	9.79
Heber		1.44	3.91	2.36									
Helvetia			1.31	0.86		0.41	3.88	3.24	0.79	0.43			
Henry's Camp	3.47	1.69	3.32	1.55	0.63	1.27	2.37						
Hereford	0.16	T.	0.20	0.00	T.	1.15	4.35	3.41	2.05	0.25	0.25	0.10	11.92
Higley	1.17	0.52	1.44										
Holbrook	0.05	0.01	0.05	0.70	0.25	0.45	0.11	1.50	0.05	T.	0.23		
Indian Oasis	1.54	0.35	1.37	0.52	0.00	0.65	1.65	2.90	1.30	0.00	1.55	0.00	11.83
Intake	1.93	1.40	1.39	0.66	1.13	0.32	1.66	0.15	0.39	0.02	1.38	0.44	10.87
Jerome	2.90	1.12	2.50	0.78	1.05	1.20	0.70	2.07	1.57	0.70	2.66	0.46	17.71
Kayenta	1.10	0.18	0.39	0.37	0.49	0.33	0.69	2.30	0.38	0.17	1.69	0.20	8.29
Kingman	1.67	1.14	0.93	0.29	0.34	0.22	0.58	3.12	1.17	0.32	1.17	0.59	11.54
Lakeside Ranger Station	2.62	0.70	1.51	1.98	0.33	0.74	1.41	5.00	0.74	0.85		1.27	
Lee's Ferry	0.20	0.38	0.35	0.81	0.15	T.	T.	0.10	0.07	0.60	0.45	0.06	3.17
Leslie Canyon	0.34	0.07	0.78	0.14	0.23	0.62	1.90	2.57	2.28	0.20	0.43	0.21	9.77
Leupp	0.92	0.47	0.03	0.01	0.15	T.							
Lewis Springs	0.43	T.	0.85	0.21	T.	0.51	2.93	3.43	0.85	T.	0.34	0.17	9.72
Maricopa	0.58	0.46	0.71	0.65	0.17	0.50	0.52	2.89	1.41	T.	0.83	0.20	8.92
Marinette	1.85	0.57	0.63		0.41	0.78	0.58	0.59	0.25	0.00	1.49		
Mesa Experiment Farm	1.50	0.50	1.15	0.45	0.27	0.07	0.85	1.34	0.38	T.	1.07	0.48	8.06
Miami	4.70	1.11	1.92	0.99	0.31	3.57	2.07	2.46	0.61	0.36	2.59	1.32	22.01
Moccasin	1.89	1.08	0.63	1.45	0.57				0.52		0.65	1.04	
Mohawk	0.50	0.10	0.25	0.00	0.00	0.18	0.60	0.90	2.61	0.09	0.40	0.00	5.54
Mormon Lake Ranger Station					2.04	3.34	2.67	3.17	1.52	1.20			

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Arizona—Continued.													
Mount Harqua Hala	.....	0.66	1.32	T.	0.41	0.07	1.95	3.12	1.86	0.02	1.02	0.58	.....
Mount Trumbull	.....	0.57	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Naco	0.40	0.10	1.30	0.20	T.	0.28	4.03	4.39	0.60	0.35	1.15	0.25	13.05
Natural Bridge	5.72	1.72	3.88	0.30	1.34	0.37	2.13	3.19	1.69	0.73	3.93	1.89	26.89
Nogales	1.79	0.22	0.89	0.25	0.19	0.44	5.20	2.03	1.11	0.60	0.58	0.20	13.50
Paradise	1.27	0.56	0.64	0.61	0.03	0.37	2.54	2.56	2.87	0.30	2.13	0.55	14.43
Parker	0.88	0.02	0.71	0.03	0.00	T.	0.88	1.73	0.30	T.	0.28	T.	4.83
Patagonia	.....	.....	.....	.....	.....	0.44	4.37	2.22	1.92	0.46	0.75	0.19	.....
Payson	4.04	0.73	2.21	.....	.....	.....	.....	.....	.....	.....	3.02	1.69	.....
Phoenix	1.29	0.42	0.99	0.24	0.26	T.	0.74	0.57	0.13	T.	1.04	0.28	5.96
Pinal Ranch	4.77	2.38	2.02	1.22	0.72	1.79	2.84	2.13	0.88	0.68	3.11	1.39	23.93
Pinedale	3.31	0.75	2.84	1.36	1.08	0.90	2.62	3.45	0.30	0.50	3.26	0.97	21.34
Pinto	0.50	0.18	0.35	0.34	0.50	0.55	1.12	2.29	0.21	0.65	1.02	0.49	8.20
Portal	0.66	0.22	0.46	0.42	0.02	1.35	1.38	5.82	2.19	0.30	2.65	0.17	15.64
Prescott	5.51	1.65	2.96	0.75	1.35	0.24	1.48	3.56	2.50	0.78	2.50	1.48	24.76
Prescott Dry Farm	2.04	0.38	1.19	0.49	0.71	0.81	3.29	3.89	1.21	0.30	0.94	0.65	15.90
Quartzsite	0.58	0.13	0.43	0.00	0.22	0.00	0.20	1.62	1.79	0.00	0.33	0.10	5.40
Redrock	2.00	1.00	0.56	2.10	0.85	T.	1.93	1.18	0.86	0.02	0.77	0.00	11.27
Reno Ranger Station	4.37	1.35	2.73	0.95	1.08	T.	1.77	1.66	1.28	0.40	2.75	2.00	20.34
Roosevelt	3.74	1.26	2.61	1.08	0.46	0.51	1.42	0.95	0.94	0.32	2.42	1.48	17.18
Rosemont	1.98	.....	1.91	0.45	0.30	0.45	5.04	2.76	0.60	.....	1.00	.....	.....
Rucker Canyon	1.16	0.53	1.23	0.36	0.13	0.88	3.61	3.11	1.97	0.42	2.01	0.62	16.03
Ryan	1.74	2.00	1.46	2.49	.....	.....	.....	.....	.....	.....	1.01	1.50	.....
Sacaton	1.11	0.41	1.23	0.78	0.22	0.11	0.53	3.32	0.55	0.00	1.20	0.26	9.72
St. Johns	0.43	0.19	0.51	0.62	0.08	0.49	1.16	2.30	0.15	0.08	0.83	0.57	7.41
St. Michaels	1.44	1.04	1.56	.....	0.48	1.22	.....	2.11	T.	0.25	2.11	0.16	.....
Salome	1.63	0.26	1.13	T.	0.25	0.03	0.82	1.62	1.21	T.	0.65	0.43	8.03
San Carlos	.....	2.20	0.99	1.20	0.20	0.04	1.35	0.80	0.16	0.29	0.75	0.75	.....
San Simon	0.50	0.31	0.69	0.09	0.16	0.40	0.38	1.84	0.12	0.24	0.56	0.65	5.94
Santa Marguerita	2.60	0.30	0.95	0.65	0.00	0.90	4.84	3.35	1.80	0.00	1.76	0.30	17.45
Seligman	0.86	.....	0.32	0.05	T.	.....	.....	.....	.....	.....	0.95	0.44	.....
Show Low	2.00	0.42	.....	.....	.....	1.66	0.60	3.40	0.82	0.66	1.71	0.86	.....
Snowflake	1.12	0.81	0.56	0.22	0.52	1.58	1.92	4.61	T.	0.31	0.89	0.60	12.54
Soldier Camp	.....	.....	.....	.....	.....	1.19	.....	.....	.....	.....	.....	.....	.....
Springerville	0.31	0.02	0.60	1.00	0.20	0.46	1.88	3.09	0.77	T.	0.41	0.08	8.82
Spring Valley Ranger Station	2.05	0.50	1.50	0.40	2.40	0.75	2.02	2.49	1.35	0.62	.....	0.48	.....
Supai	0.42	0.38	0.42	1.12	0.20	0.70	0.71	1.66	.....	0.62	0.35	.....	.....
Superior	3.26	1.04	1.81	1.35	0.10	1.09	4.03	0.90	1.29	0.34	3.03	0.40	18.64
Sycamore Ranger Station	4.00	1.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tempe Date Orchard	1.48	0.43	1.20	0.37	0.42	0.11	0.75	0.70	0.26	0.00	0.90	0.41	7.03
Thatcher	1.01	0.36	0.49	0.03	.....	0.05	0.06	2.06	0.58	0.07	0.21	0.55	.....
Tombstone	0.58	0.13	0.88	0.42	0.43	0.62	2.04	3.54	1.35	0.33	0.33	0.25	10.90
Tonto Ranger Station	2.84	0.89	2.11	0.37	0.59	0.78	1.95	1.52	1.07	0.48	1.66	1.18	15.44
Truxton	1.50	0.89	1.11	0.84	0.54	0.64	3.56	1.68	.....	.....	.....	.....	.....
Tuba City	0.10	0.31	0.06	0.00	0.00	0.88	0.55	0.65	0.14	0.28	1.53	0.00	4.50
Tucson	0.73	0.20	1.20	0.27	0.06	0.33	1.27	1.21	1.01	0.18	0.32	0.08	6.86
University of Arizona	1.20	0.20	1.36	0.76	0.15	0.44	1.73	1.18	1.73	0.22	0.32	0.10	9.39
Walnut Creek Ranger Station	3.29	0.72	1.82	0.64	0.48	0.11	2.36	3.92	1.17	0.68	1.64	0.63	17.46
Walnut Grove	5.27	0.99	2.35	0.29	.....	0.21	2.09	1.17	4.05	0.50	2.55	0.50	.....
Wickenburg	4.48	0.65	1.14	0.00	0.30	0.14	1.14	0.51	2.17	0.00	0.71	0.40	11.64
Willcox	0.72	0.60	0.65	0.20	0.00	.....	.....	.....	.....	.....	.....	.....	.....
Williams	4.53	1.35	3.05	1.31	1.05	0.44	5.44	3.09	1.44	0.95	2.52	1.78	24.95
Windmill Ranch	.....	.....	.....	.....	.....	0.97	2.25	.....	.....	.....	.....	.....	.....
Winslow	1.55	T.	0.48	0.48	0.38	0.05	2.74	1.85	0.70	0.05	0.31	0.00	8.59
Yaeger Canyon	2.61	1.00	2.40	0.49	.....	.....	2.28	3.05	.....	.....	.....	.....	.....
Young	4.99	.....	4.41	0.86	.....	0.09	1.75	0.81	0.00	.....	1.28	2.40	.....
Yuma (Weather Bureau)	0.54	0.16	0.22	0.00	0.05	0.09	T.	0.12	1.11	0.00	0.66	0.08	3.03
Yuma (Citrus Station)	0.73	0.31	0.15	0.00	0.14	0.00	0.00	1.23	1.43	0.00	0.81	0.14	4.94
Yuma (Date Orchard)	0.61	0.13	0.21	0.00	0.04	T.	T.	0.09	1.92	0.00	0.61	0.14	3.75
Yuma (Evaporation Station)	0.65	0.11	0.21	0.00	0.05	0.09	0.02	0.23	1.41	0.00	0.66	0.08	3.46
Arkansas.													
Amity	1.64	5.08	9.36	4.99	5.76	3.94	1.29	3.25	2.42	1.89	.....	.....	.....
Arkadelphia	2.12	5.01	10.15	4.86	7.90	3.77	4.30	1.60	1.50	1.11	1.50	2.47	46.29
Arkansas City	5.14	6.43	10.14	5.06	10.33	5.59	2.68	1.22	2.50	2.28	4.20	5.74	61.31
Arlberg	.....	.....	.....	.....	.....	.....	.....	.....	0.30	1.50	3.15	6.20	.....
Batesville	2.70	2.50	7.24	4.71	4.94	0.53	6.39	1.07	1.00	0.78	4.42	3.92	40.20
Bee Branch	2.50	4.05	5.70	3.45	3.18	2.35	4.95	1.85	2.60	1.75	4.78	5.85	43.01
Bentonville	1.37	1.87	5.06	3.89	4.32	2.48	3.79	0.78	1.86	1.06	6.75	2.71	35.94
Black Rock	3.43	2.60	8.90	4.99	3.23	0.34	6.62	2.70	1.80	0.97	4.74	6.48	46.80
Booneville	1.73	3.38	4.65	4.84	5.11	1.03	2.19	1.10	1.01	1.04	5.01	2.97	34.06
Brinkley	2.39	2.66	12.99	6.73	5.98	2.49	5.02	3.70	1.56	1.37	1.90	6.14	52.93
Calico Rock	2.68	2.80	8.43	2.85	2.84	0.97	3.61	2.01	1.16	1.20	2.48	7.39	38.42
Camden	3.84	5.38	10.19	6.77	6.09	3.17	6.40	0.86	2.98	0.74	2.47	2.60	51.49
Clarendon	2.41	3.00	12.98	3.39	5.36	2.87	2.97	0.78	1.32	1.02	3.02	4.67	43.79
Clinton	2.90	3.82	9.34	3.62	5.91	0.53	2.98	.....	.....	1.94	3.48	6.21	.....
Conway	2.69	3.57	9.05	5.49	3.40	3.11	3.65	0.35	0.63	0.38	3.85	4.90	41.57
Corning	2.65	2.92	8.67	5.52	1.57	2.40	3.10	1.37	0.84	0.62	3.50	6.66	39.82
Dam No. 1	.....	.....	.....	5.42	3.56	3.04	5.92	0.73	1.82	1.53	3.50	5.42	.....
Danville	1.48	3.81	6.22	0.41	4.07	0.61	3.76	2.29	0.15	3.90	3.15	4.25	34.10
Dardanelle	1.92	3.31	6.83	4.00	2.72	2.12	3.18	1.94	0.82	2.88	4.03	4.46	38.21
Dodd City	2.83	2.93	6.17	5.36	3.83	0.84	6.95	1.21	0.32	0.36	2.41	5.35	38.56
Dumas	4.82	7.89	12.19	5.46	8.94	5.66	2.18	1.63	1.26	1.15	6.54	4.21	61.91
Dutton	2.43	3.44	4.33	7.89	4.86	1.55	4.76	3.00	0.65	1.81	4.91	7.23	46.86
El Dorado	7.98	7.88	8.69	9.12	7.44	3.81	4.45	3.27	1.43	0.83	2.04	5.28	65.22
England	2.31	4.87	10.58	.....	.....	.....	.....	0.81	0.73	0.46	3.21	3.90	.....
Eureka Springs	1.64	2.36	5.00	5.19	3.94	1.08	5.83	2.28	2.02	1.05	4.51	5.41	40.31
Fayetteville	1.58	1.90	3.24	3.59	2.89	1.47	6.62	2.54	0.73	0.69	6.67	3.82	35.75
Fort Smith	2.44	2.44	4.28	4.30	2.86	1.04	2.05	1.88	0.46	2.80	5.28	3.27	33.12
Fulton	2.79	4.98	9.04	7.96	6.13	5.27	2.08	3.06	0.21	3.17	1.29	2.35	43.33
Georgetown	2.62	2.87	13.01	4.66	6.94	1.36	2.45	2.78	1.13	1.45	3.41	3.92	46.60
Grannis	2.32	5.83	7.93	7.11	5.33	3.17	2.55	4.30	2.12	0.82	5.83	4.66	51.47
Gravette	1.33	2.24	5.95	4.92	3.52	1.41	4.12	1.47	1.27	0.74	7.44	3.86	38.27
Hardy	2.37	2.17	6.20	2.77	4.64	2.68	2.07	2.27	0.75	2.06	.....	.....	.....
Harrison	.....	1.81	5.46	.....	.....	.....	.....	.....	.....	2.80	3.30	.....	.....
Heber Springs	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.95	4.50	4.23	.....

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
***Arkansas*—Continued.**													
Helena	2.76	3.24	9.54	5.06	6.42	1.23	4.98	0.84	1.98	3.30	5.06	5.82	50.23
Higden	2.43	3.34	7.97	3.37	4.19	2.03	4.25	0.55	0.30	1.39	4.62	5.98	40.42
Hope	2.39	5.79	8.87	9.29	5.58	3.04	2.84	2.40	1.58	1.38	1.37	1.56	46.09
Hot Springs	1.90	4.21	9.58	4.80	7.41	3.40	4.44	2.22	0.72	.....	.....	3.25	.....
Huttig	6.50	8.52	11.90	8.50	12.69	3.50	4.29	1.75	2.00	0.30	3.55	5.60	69.10
Jonesboro	3.24	3.10	11.36	5.07	2.25	0.34	7.96	2.09	5.89	2.16	4.25	5.21	52.92
Junction	3.98	5.68	10.95	7.58	7.59	4.75	5.40	1.20	1.65	.....	1.42	2.44	.....
Lincoln	.....	.....	.....	.....	.....	.....	.....	1.54	0.53	0.30	8.82	1.96	.....
Little Rock	1.90	3.95	8.30	3.55	4.74	2.21	2.39	0.83	0.93	0.77	2.07	3.38	35.02
Lutherville	1.47	4.04	6.04	5.15	4.60	1.55	2.34	3.94	0.60	1.64	4.20	7.02	42.59
Magnolia	.....	7.03	10.80	6.55	.....	4.38	3.94	1.38	3.80	1.85	4.15	4.06	.....
Malvern	2.38	3.70	10.10	3.98	4.24	4.56	3.74	1.40	1.38	2.62	.....	.....	.....
Mammoth Springs	1.74	2.63	3.70	2.94	1.89	0.45	3.30	1.63	1.07	3.31	.....	5.03	.....
Marianna	2.50	3.74	9.82	4.35	5.14	2.47	4.53	1.07	1.26	0.39	2.15	.....	.....
Marked Tree	3.21	2.01	14.59	3.95	4.58	0.82	8.90	8.43	1.91	1.49	5.22	4.46	59.57
Marshall	3.10	2.91	7.11	5.47	5.06	0.32	8.30	2.03	1.23	1.77	2.66	6.61	46.57
Mena	1.75	2.86	7.49	6.49	7.65	2.66	0.96	5.21	0.62	2.71	6.25	2.39	47.04
Morrilton	0.77	2.81	7.93	4.09	2.83	0.68	2.29	0.33	0.86	0.81	3.38	5.24	32.02
Mountain Home	1.83	4.19	7.38	5.52	2.72	.....	.....	0.95	0.28	3.39	2.21	5.80	.....
Mount Ida	1.69	3.98	7.77	5.27	7.82	2.75	2.72	2.11	0.65	2.63	3.22	4.34	44.95
Murfreesboro	1.23	4.51	9.70	7.39	5.27	6.35	3.20	1.57	0.23	2.12	2.40	2.87	46.84
Nall	2.00	2.98	5.66	6.35	5.73	1.63	7.10	2.32	0.60	1.55	4.75	6.60	47.27
Newport	3.17	2.72	9.25	4.86	3.44	0.71	6.91	0.75	1.45	2.15	4.03	5.50	44.94
Okay	2.64	5.74	7.58	6.99	.....	1.42	4.44	0.90	.....	.....	.....	.....	.....
Osceola	2.00	1.70	7.15	2.87	5.75	.....	7.07	1.05	1.80	1.00	.....	.....	.....
Ozark	2.38	2.58	4.49	6.63	3.78	1.63	1.60	0.55	0.40	0.99	5.97	5.47	36.47
Patterson	3.34	2.62	10.79	4.77	3.66	1.64	5.43	0.33	0.62	1.15	4.90	4.62	43.87
Pindall	.....	.....	.....	.....	.....	.....	.....	.....	0.64	4.35	3.13	7.25	.....
Pine Bluff	2.22	2.51	13.53	4.86	7.35	3.01	1.13	2.98	0.38	0.43	3.70	4.81	46.91
Pocahontas	2.90	3.30	8.22	3.53	2.55	3.25	5.08	3.10	1.57	0.68	4.65	6.60	45.43
Portland	6.25	9.70	7.78	5.20	10.54	4.13	4.51	3.13	1.09	0.25	5.32	4.67	62.57
Prescott	2.45	4.47	9.86	8.41	5.28	4.55	2.30	1.45	1.94	1.11	1.63	1.90	45.35
Princeton	1.55	4.90	11.53	6.45	5.90	5.32	7.17	0.90	1.20	1.45	1.75	1.95	50.07
Rison	3.08	4.16	13.83	7.74	4.64	5.07	4.91	2.02	1.67	1.10	2.15	3.65	54.02
Rogers	1.34	1.92	4.47	5.03	2.24	2.99	4.43	1.17	1.35	0.66	5.61	6.46	37.67
Searcy	2.19	3.53	8.70	4.58	5.03	1.64	5.36	0.36	3.80	.....	.....	.....	.....
Snow Lake	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.56	5.53	5.56	.....
Springbank	4.67	5.68	10.57	12.81	3.83	4.93	6.38	3.12	1.75	0.81	3.25	3.26	61.06
Stuttgart	2.22	4.29	11.38	3.98	4.78	3.70	2.02	1.78	0.70	1.44	2.41	3.79	42.49
Subiaco	2.21	3.53	4.64	4.88	4.93	0.63	2.25	1.16	0.51	0.90	5.17	6.10	36.91
Texarkana	3.25	5.45	7.52	10.34	4.03	4.39	4.44	4.74	0.98	1.35	0.86	1.68	49.03
Umphers	1.85	3.35	.....	4.22	.....	.....	.....	.....	.....	.....	.....	.....	.....
Waldron	1.64	3.59	6.33	6.66	6.62	2.08	2.13	2.43	0.47	0.80	6.80	3.60	43.15
Warren	4.23	6.55	9.79	5.58	6.66	6.15	1.70	1.25	2.77	0.92	4.65	4.39	54.64
Whitecliffs	1.70	5.50	9.90	12.25	4.60	5.90	2.10	1.88	T.	3.76	2.90	1.00	51.49
Wynne	2.14	2.33	11.75	4.09	4.82	2.12	7.86	0.21	0.53	1.17	3.67	5.17	45.86
California.													
Abbotts	4.32	4.98	2.34	0.87	0.41	0.00	0.00	0.00	0.00	0.71	3.67	4.45	21.75
Acton	.....	.....	0.25	0.15	0.29	0.00	T.	0.00	0.01	0.08	1.78	2.93	.....
Aguanga	4.30	3.29	1.79	0.33	0.45	0.00	T.	0.00	0.00	0.40	1.30	1.28	13.14
Alder Creek	11.10	5.60	.....	0.95	0.95	.....	T.	T.	.....	.....	2.79	.....	.....
Amago	6.80	7.58	3.64	1.80	1.34	0.00	0.00	0.00	0.00	1.10	2.13	6.24	30.63
Anglola	2.04	1.31	1.57	0.20	0.43	0.22	0.00	0.13	0.00	0.31	0.69	2.20	9.10
Antelope Valley	3.07	2.59	1.65	0.44	0.27	T.	T.	0.00	0.00	0.31	1.38	2.26	11.97
Antioch	2.56	4.47	1.05	0.46	0.17	0.00	T.	0.00	0.00	0.87	1.89	4.85	16.32
Arrowhead Springs	8.12	5.02	2.87	1.68	2.40	0.00	0.35	0.00	0.00	0.50	2.34	6.62	29.90
Arroyo Seco	7.84	7.75	2.62	1.21	1.42	0.12	T.	0.00	0.00	0.62	2.50	6.41	30.49
Atascadero	5.65	5.61	3.37	0.31	0.91	0.00	0.00	0.00	0.00	0.33	4.16	6.11	26.45
Auberry	3.45	7.77	7.41	0.25	1.86	0.00	0.00	0.00	0.00	0.00	2.47	4.30	27.51
Auburn	3.27	11.71	7.19	1.23	2.56	T.	0.00	0.00	0.00	2.10	4.60	16.76	49.42
Avalon	3.48	3.50	1.38	0.27	0.46	0.03	0.00	T.	0.00	0.05	0.93	6.64	17.34
Bagdad	0.22	0.21	0.00	0.00	T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43
Bakersfield	1.53	1.58	2.30	0.10	0.23	0.14	T.	0.00	0.00	0.40	0.71	1.15	8.14
Banning	4.45	0.18	2.11	0.55	1.15	0.00	0.00	0.12	0.00	0.40	2.54	.....	.....
Barlow Sanitarium	5.18	3.67	1.96	0.12	0.79	0.00	0.00	0.00	0.00	.....	.....	3.14	.....
Barrett Dam	5.70	4.13	3.62	1.35	0.87	0.00	0.00	0.00	0.00	0.57	1.36	4.45	22.05
Beaumont	5.38	4.69	2.54	0.94	1.29	0.00	0.10	0.00	0.00	0.56	2.78	4.90	23.18
Beaumont (near)	5.75	4.69	2.64	1.30	1.27	0.00	0.08	0.00	0.00	0.95	3.64	4.65	24.97
Belotta	3.27	5.89	2.86	1.11	1.07	0.01	0.00	0.00	0.00	0.85	3.91	7.39	26.36
Benson's Ferry	2.48	4.22	1.14	0.76	0.49	0.00	0.00	0.00	T.	0.86	3.29	5.46	18.70
Berkeley	3.74	0.31	2.59	0.67	0.88	0.24	T.	T.	0.00	2.90	4.28	8.49	30.10
Betteravia	3.62	3.27	2.54	0.31	0.47	0.00	0.00	0.00	0.00	0.45	1.16	3.34	15.16
Big Bar	1.56	7.18	5.43	0.71	0.83	0.58	0.00	T.	0.25	3.53	2.41	11.98	34.46
Big Bear Tavern	7.43	5.05	3.10	0.80	1.70	T.	T.	.....	.....	.....	.....	.....	.....
Big Sur	4.90	10.24	4.33	0.92	1.19	0.00	0.00	0.00	0.00	3.64	5.89	12.88	43.99
Bishop Creek	1.26	3.89	1.69	0.34	0.33	0.46	1.11	0.78	0.00	0.16	2.48	2.07	14.57
Blue Canyon	8.25	22.68	12.93	3.31	4.14	0.78	T.	0.00	T.	2.52	8.24	19.52	80.37
Blythe	0.47	0.04	0.32	0.01	0.00	T.	0.14	0.47	0.38	T.	0.28	T.	2.11
Bonita	4.00	2.27	1.49	0.20	0.31	0.00	T.	T.	0.00	0.20	0.77	2.14	11.38
Branscomb	3.47	16.55	11.71	1.94	1.07	0.07	0.00	T.	0.40	5.13	3.58	19.56	63.48
Brawley	0.64	T.	0.07	0.00	T.	T.	T.	T.	0.00	0.00	0.01	0.01	0.73
Brooks	1.35	6.85	1.70	0.16	0.09	0.00	0.00	T.	0.00	2.15	4.97	8.76	26.03
Burkhart Ranch	4.26	3.90	1.37	0.14	0.25	0.04	0.16	T.	0.08	0.26	2.11	2.29	14.86
Cajon Ranger Station	3.97	8.17	3.84	1.99	0.92	0.00	0.33	0.10	0.00	0.48	3.61	4.85	28.26
Calexico	0.68	0.75	T.	0.00	T.	T.	0.78	T.	0.11	0.00	0.22	0.03	2.57
Camp Baldy	8.27	12.97	3.93	2.22	1.34	0.00	0.16	0.04	0.02	0.59	5.85	11.61	47.50
Campbell	2.52	2.78	1.88	0.03	0.35	0.05	T.	0.00	0.00	1.43	3.02	5.56	17.82
Campo	4.55	3.54	2.84	1.03	0.86	0.00	7.10	1.32	0.25	0.53	1.65	3.39	27.05
Camptonville (near)	6.03	18.44	10.34	2.09	3.07	0.34	0.01	T.	0.04	3.31	7.99	21.57	74.13
Canyon Dam	2.16	14.13	6.77	0.55	2.24	0.52	0.00	0.00	0.00	2.01	5.13	8.89	42.45
Cascada	5.43	6.48	4.65	0.56	2.12	0.44	0.17	0.03	0.00	1.18	5.87	7.10	34.03
Cedarville	0.80	3.66	1.28	0.43	0.18	0.11	0.62	T.	0.05	0.61	0.62	1.73	10.09
Centerville Powerhouse	3.58	11.69	5.59	0.84	1.95	0.04	T.	0.00	0.00	4.02	4.46	13.73	45.90
Chester	2.20	10.78	5.67	0.88	1.13	1.09	0.18	0.07	T.	2.35	5.19	6.62	36.16
Chico	2.60	6.33	2.01	0.35	1.12	T.	T.	T.	0.00	2.58	4.21	8.23	27.41

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
California—Continued.													
China Flat	2.52	9.59	7.59	1.64	0.96	T.	0.00	T.	0.34	3.07	2.62	14.49	43.13
Chula Vista	2.93	2.23	1.35	0.36	0.23	0.00	0.02	0.02	0.00	0.03	0.77	2.21	10.15
Churn Creek	1.67	6.17	2.56	0.85	2.39	0.67	0.00	0.02	0.00	3.15	3.01	7.74	28.23
Claremont	5.21	4.88	2.23	0.41	1.05	0.05	0.05	0.05	0.00	0.50	1.85	5.14	21.42
Cloverdale	1.58	9.04	3.66	0.32	0.34	0.11	T.	0.00	0.00	4.38	4.83	10.93	35.19
Clovis	3.65	3.05	1.76	0.80	1.08	0.10	0.00	0.02	0.00	0.55	1.65	3.11	15.17
Coalinga	2.40	2.01	1.36	0.07	0.23	0.00	0.00	T.	0.00	0.09	0.47	2.36	8.99
Colfax	5.60	17.47	8.54	1.68	3.06	0.54	T.	0.00	0.00	2.41	7.52	16.48	63.30
Colgate	3.68	13.10	8.97	1.31	2.69	0.04	T.	0.00	0.02	2.38	4.18	14.99	51.36
Colusa	1.77	4.18	0.51	0.18	0.16	0.04	0.00	0.00	0.00	1.37	3.71	6.17	18.09
Corona	5.04	2.93	1.87	0.08	0.82	0.01	0.05	0.00	0.00	0.20	1.67	2.50	15.17
Covina	5.08	5.65	3.34	0.29	0.85	0.12	0.08	0.00	0.00	0.53	2.54	6.43	24.91
Crescent City	7.95	14.46	15.50	4.78	2.41	0.29	6.00	0.89	1.79	5.64	4.82	13.55	72.08
Crockett	1.89	5.91	2.02	0.40	0.49	0.12	0.00	0.00	0.00	3.20	3.50	6.22	23.75
Cuyamaca	8.54	8.99	4.73	2.50	1.32	0.00	0.57	1.53	0.25	1.35	5.63	8.35	43.76
Davis	2.29	5.85	1.47	0.40	0.40	0.00	0.00	0.00	0.00	1.56	3.29	7.37	22.63
Decker's Ranch	9.41	7.42	3.44	1.78	2.30	0.05	0.13	0.73	0.06	0.89	4.01	9.60	39.82
Deer Creek	7.53	31.84	12.26	3.15	4.25	0.58	0.00	T.	0.00	3.22	9.19	21.65	93.67
Del Monte	3.36	4.61	2.20	0.00	0.14	0.00	0.00	0.00	0.00	0.64	2.64	4.01	17.60
Denair	2.09	4.08	1.80	0.32	0.57	0.00	0.00	0.00	0.00	0.90	2.00	4.19	15.95
De Sabla	3.44	17.05	8.30	1.01	2.43	0.00	0.00	0.00	0.00	5.25	5.67	15.14	58.29
Devore Ranch	8.32	10.27	4.17	3.03	2.38	0.00	0.15	0.00	0.00	0.60	4.73	13.66	47.31
Dinkey Meadow	4.62	15.68	6.80	1.23	2.23	0.20	0.44	0.03	0.00	1.64	6.76	12.68	52.31
Dinuba	2.84	3.00	2.00	0.24	0.53	0.23	0.00	0.19	0.00	1.36	1.30	3.36	15.05
Dobbins (near)	3.79	11.71	8.48	1.48	2.63	0.10	0.01	0.00	0.03	2.26	4.34	15.35	50.18
Dobie Ranch	2.21	0.84	1.90	0.31	0.15	0.00	0.04	0.00	0.00	0.05	0.45	0.30	6.25
Dodgeland	1.96	4.43	1.07	0.34	0.55	0.00	0.00	T.	0.00	1.19	3.59	5.66	18.79
Downieville	5.50	24.30	11.76	1.95	3.87	0.83	T.	0.00	0.03	3.24	9.51	18.84	79.83
Dry Canyon Reservoir	4.43	2.18	1.43	0.33	0.42	0.00	0.00	0.00	0.00	0.55	1.97	5.72	17.03
Dudley	2.05	2.06	1.16	0.04	0.15	T.	0.00	T.	0.00	0.20	0.72	2.05	8.43
Dudleys	6.30	13.70	7.56	0.86	1.95	0.43	T.	T.	0.00	1.38	6.53	11.35	50.06
East Park	0.81	5.74	0.59	T.	0.04	0.24	T.	0.00	0.00	2.24	3.81	5.33	18.80
Echo Mountain	6.83	7.87	1.75	1.10	1.45	0.00	0.00	0.00	0.00	0.35	2.92	7.07	29.34
Edison	1.95	1.95	2.21	0.63	0.41	0.10	T.	T.	0.00	0.83	0.93	1.83	10.84
El Cajon	4.64	3.09	2.42	0.55	0.53	0.00	0.04	0.01	0.05	0.30	1.38	2.60	15.61
Electra	4.12	9.95	5.87	0.66	1.52	0.11	0.00	0.00	0.00	1.93	6.10	10.52	40.78
Elsinore	6.42	2.28	1.93	0.27	0.43	0.00	T.	0.01	0.01	0.16	1.67	1.41	14.59
Emigrant Gap	5.35	12.60	6.42	0.28	3.60	0.60	0.00	0.00	T.	1.08	6.80	11.60	48.33
Escondido (No. 1)	5.59	4.51	3.10	1.01	0.66	T.	0.08	T.	0.00	0.35	1.18	2.77	19.25
Escondido (No. 2)	6.49	4.81	2.81	1.32	0.62	0.00	0.06	0.00	0.00	0.29	1.05	3.32	20.77
Eureka	2.54	9.75	6.43	2.39	0.95	0.14	0.00	0.03	0.37	3.38	3.32	7.62	36.92
Fairmont	4.89	3.64	1.72	0.29	0.43	T.	T.	0.00	0.00	0.22	1.62	6.23	19.04
Firebaugh	2.20	1.70	1.40	0.47	0.33	0.02	0.00	0.00	0.00	0.27	0.98	1.72	9.09
Folsom	3.29	6.70	3.26	0.93	0.99	0.00	0.00	0.00	0.00	1.05	4.69	9.46	30.37
Fontana	6.32	4.13	3.23	0.84	1.24	0.06	T.	T.	0.00	0.49	1.85	4.51	22.67
Fordyce Dam	5.32	18.74	13.86	2.93	3.55	1.95	0.15	0.12	0.05	3.66	8.49	19.12	77.93
Fort Bragg	2.51	7.03	6.00	1.25	0.82	0.08	0.00	0.00	0.41	4.80	3.11	9.45	35.46
Fort Ross	2.98	5.37	4.75	0.73	0.63	0.00	0.00	0.00	0.43	3.25	3.83	10.65	32.62
Fresno	2.46	2.19	1.53	0.10	0.49	0.12	T.	T.	0.00	0.52	0.62	2.20	10.23
Friant	3.41	2.99	2.01	0.46	0.82	0.10	T.	T.	0.00	1.05	2.12	3.13	16.09
Georgetown	4.64	19.66	7.18	4.40	3.20	0.35	T.	0.00	0.00	6.56	8.57	21.21	75.77
Giant Forest	8.39	11.65	4.57	2.51	2.54	0.50	0.22	0.42	0.00	1.70	3.64	9.13	45.27
Glacier Point	5.60	17.00	5.60	0.70	1.85	1.75	0.36	0.07	0.00	1.84	.....	.....	.....
Glennville (near)	3.88	3.49	3.58	0.91	1.00	0.59	0.03	0.05	T.	1.83	2.01	6.04	23.41
Grass Valley	5.52	17.61	10.05	2.57	3.47	0.15	0.05	T.	0.02	3.10	8.33	19.61	70.48
Greenland Ranch	1.20	0.10	T.	T.	0.06	T.	0.00	0.40	0.00	0.00	T.	0.00	1.76
Haines Canyon	7.96	10.04	.....	.....	1.34	.....	.....	.....	.....	.....	4.62	7.18	.....
Hanford	1.68	2.24	1.75	0.14	0.44	0.22	0.00	T.	0.00	0.45	0.79	2.52	10.23
Happy Camp	3.16	9.51	8.44	0.97	0.80	0.67	0.00	0.00	0.33	2.04	1.63	9.45	37.00
Hat Creek	0.85	6.41	2.13	0.38	1.91	1.40	0.00	0.60	0.00	1.58	2.26	4.85	22.37
Hayfork	1.26	7.66	3.56	0.46	0.67	0.47	0.00	0.00	0.06	3.89	2.76	8.82	29.91
Head Dam	5.13	15.53	9.17	2.13	.....	0.10	0.00	0.00	0.00	2.43	5.84	17.13	.....
Healdsburg	1.68	9.80	3.09	0.33	0.36	0.11	0.00	0.00	0.00	2.18	5.75	11.91	35.21
Helen Mine	2.29	19.26	8.18	1.40	1.18	0.33	0.00	.....	.....	.....	.....	.....	.....
Hetch Hetchy	3.45	6.80	6.31	0.60	2.67	0.42	0.58	T.	0.00	2.20	3.00	8.10	34.13
Hobbler's Camp	8.64	13.42	8.96	1.28	2.21	0.94	1.02	0.20	0.00	3.28	7.45	9.70	57.10
Hollister	3.01	4.12	2.10	0.57	0.74	0.02	0.00	0.00	0.00	0.95	2.30	2.63	16.44
Hot Springs	5.00	4.46	3.58	1.85	0.87	0.38	0.13	0.08	0.00	1.88	2.37	8.22	28.82
Hullville (near)	2.41	15.39	6.85	0.86	0.92	0.23	0.00	0.22	0.02	5.18	4.59	15.61	52.28
Huntington Lake	5.81	5.49	4.78	1.23	2.42	0.33	0.34	0.10	0.00	1.01	4.49	6.80	32.80
Hurley Flat	4.42	4.12	1.91	1.35	1.93	0.00	0.61	2.86	1.24	0.51	2.37	4.06	25.38
Idria	2.62	6.61	2.37	0.38	0.80	0.06	0.00	0.00	0.00	0.23	3.66	3.56	20.29
Independence	1.11	1.07	0.10	0.04	T.	T.	0.02	0.39	0.00	T.	0.44	0.57	3.74
Indio	1.10	0.21	0.22	0.00	T.	T.	0.07	T.	T.	T.	0.03	0.04	1.67
Inskip	5.47	27.33	13.53	3.44	3.95	0.85	0.00	0.00	T.	6.23	6.94	16.81	84.55
Iron Forks	7.35	9.15	3.95	2.42	1.50	0.00	0.00	0.08	0.04	0.65	4.81	7.71	37.66
Jenny Lind	4.18	6.81	3.59	1.55	1.25	0.00	0.00	0.00	0.00	1.05	2.24	6.57	27.24
Johnstone Ranch	4.78	3.05	1.98	0.18	1.15	0.00	0.00	0.00	0.00	0.12	1.04	2.41	14.71
Jolon	2.91	5.20	1.59	0.11	0.30	0.00	0.00	0.00	T.	0.40	3.93	3.45	17.89
Julian	7.08	6.93	3.03	2.12	1.85	0.00	1.07	0.00	T.	1.85	7.03	3.00	33.96
Kennedy Mine	3.68	8.99	4.47	0.64	1.73	0.00	0.00	0.00	0.00	1.40	6.23	12.55	39.69
Kennett	2.16	13.57	8.95	1.43	1.80	0.80	0.00	0.00	0.00	4.27	4.18	8.76	45.92
Kentfield	3.09	9.10	5.12	0.72	1.22	0.11	0.00	0.00	0.00	4.05	6.11	16.66	46.18
Kernville	2.27	2.14	1.14	0.59	0.38	0.00	T.	0.00	0.00	T.	0.87	3.35	10.74
King City	2.98	2.64	0.93	0.00	0.05	0.00	0.00	0.00	0.00	0.57	2.16	2.85	12.18
Kings River, North Fork	8.72	12.75	8.54	1.16	2.05	0.22	0.42	0.03	0.00	1.78	7.08	13.08	55.90
Knights Landing	2.22	5.21	1.64	0.81	0.53	0.00	0.00	0.00	0.00	1.73	4.75	8.52	25.41
La Crescenta	8.22	7.60	3.34	0.91	1.33	0.20	0.00	0.00	0.00	0.45	2.71	6.56	31.32
Lake Eleanor	3.28	11.33	9.30	0.70	2.44	0.54	0.60	T.	0.00	2.18	4.68	11.56	46.61
Lakeport	0.87	7.77	2.86	0.32	0.35	0.27	0.00	0.00	0.00	2.71	5.44	9.35	29.94
Lake Spaulding	5.77	25.29	13.38	2.24	4.63	1.21	0.00	0.00	0.05	3.00	8.85	17.58	82.00
Lake Tahoe	2.95	13.19	4.60	1.03	1.66	0.80	0.31	0.23	0.00	1.05	3.72	10.88	40.42
La Porte	3.76	20.43	8.03	1.90	1.46	0.11	0.05	0.00	0.00	2.23	8.54	16.55	63.06
Las Plumas	3.95	12.08	8.28	0.84	0.00	0.05	0.00	0.00	0.00	3.22	6.85	15.34	50.61
Lathrop	2.37	3.31	1.31	0.84	0.51	0.15	T.	T.	0.00	0.39	2.67	3.98	15.73
Le Grand	3.07	4.12	4.72	0.27	0.97	0.28	0.00	T.	0.00	0.63	2.88	3.91	20.85
Lemon Cove	2.70	2.90	3.37	0.27	0.70	1.04	0.00	T.	0.00	1.25	1.57	3.58	17.38

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
California—Continued.													
Lick Observatory	3.36	7.74	5.21	1.12	1.17	0.04	0.00	0.00	0.00	1.26	3.49	7.72	31.11
Lindsay	2.71	2.38	2.16	0.47	0.51	0.42	0.00	0.00	0.00	0.88	1.23	2.81	13.57
Litchfield	0.41	5.21	0.57	0.48	0.45	0.09	0.07	0.00	0.00	0.18	0.92	3.12	11.50
Little Rock Creek	3.41	1.05	1.42	0.22	0.00	0.00	0.00	0.00	0.00	0.00	1.00	.....	.....
Live Oak Canyon	5.92	5.71	2.68	0.67	1.07	0.00	0.06	0.00	0.00	0.76	2.48	7.73	27.08
Livermore	1.51	5.46	1.83	0.23	0.27	T.	T.	T.	0.00	0.54	2.86	5.43	18.13
Livingston	2.17	3.66	1.55	0.62	0.58	0.02	0.00	0.00	0.00	0.28	2.15	.....	.....
Llano	2.80	0.85	0.95	T.	0.10	0.02	T.	0.00	0.00	0.05	0.20	0.64	5.61
Long Beach	3.74	2.65	1.47	0.17	0.52	T.	T.	T.	0.00	0.06	1.42	3.42	13.45
Los Alamos	4.35	3.60	2.58	0.28	0.39	0.00	T.	0.00	0.00	0.55	1.26	4.15	17.16
Los Angeles	4.64	3.47	1.64	0.10	0.65	T.	T.	0.00	0.00	0.24	1.44	3.09	15.27
Los Gatos	2.83	11.20	3.32	0.32	0.48	0.03	T.	0.00	0.00	2.80	6.34	10.40	37.72
Lower Haines Canyon	7.58	6.26	4.26	1.33	0.00	0.00	T.	0.00	0.00	0.20	3.47	.....	.....
Lytle Creek	4.85	9.64	4.71	3.28	2.26	0.00	0.02	0.00	0.00	0.40	3.63	9.95	38.74
McCloud	0.78	6.55	5.87	0.47	2.32	1.06	0.00	0.15	T.	5.47	3.85	11.51	38.03
Madeline	0.56	.....	.....	.....	.....	T.	0.71	0.21	0.20	0.58	0.96	3.37	.....
Maricopa	1.92	1.11	1.75	0.9	0.32	0.33	0.03	0.00	0.00	0.42	0.36	1.03	7.36
Mariposa	5.73	9.42	6.01	0.66	1.96	0.39	0.00	0.00	0.00	0.91	5.63	7.53	38.24
Markleeville	2.10	7.35	1.86	0.70	0.47	1.38	0.83	0.08	0.00	0.46	2.28	3.38	20.89
Marysville	2.23	4.93	2.75	0.55	0.97	0.00	0.00	0.00	0.00	1.52	3.15	9.89	25.99
May Canyon	.....	.....	.....	.....	.....	T.	.....	.....	0.00	0.68	2.06	8.44	.....
Mecca	0.79	0.19	0.07	0.00	0.05	T.	0.07	T.	0.25	0.00	T.	0.02	1.44
Melones	3.81	8.61	5.19	1.29	1.03	0.00	0.00	0.00	0.00	1.40	5.17	9.09	35.59
Merced	3.68	4.02	2.77	0.87	1.14	0.12	T.	0.00	0.00	0.55	2.21	3.66	18.42
Merced Falls	2.80	4.91	3.09	1.84	1.97	0.33	T.	0.00	0.00	0.57	3.54	4.47	23.52
Mesa Grande	4.14	5.49	3.90	4.95	2.05	0.00	0.17	.....	.....	0.95	.....	.....	.....
Middlewater	2.49	1.24	1.62	T.	0.07	0.03	0.00	0.00	0.00	0.08	0.72	0.51	6.76
Mill Creek (Amador County)	5.77	15.29	8.14	0.82	1.59	0.21	0.00	0.00	0.00	1.61	7.10	16.00	56.53
Mill Creek (San Bernardino County)	5.03	4.31	2.92	2.08	1.88	0.00	0.16	T.	0.37	1.15	3.80	4.22	25.92
Milo	3.32	4.88	2.78	1.21	0.50	.....	.....	.....	.....	.....	.....	.....	.....
Milton (near)	4.48	6.68	4.53	0.98	1.17	0.00	0.00	0.00	0.00	0.69	3.62	8.02	30.17
Mission Valley	5.27	1.59	1.74	0.00	0.98	0.00	0.00	0.00	0.00	.....	.....	.....	.....
Mokelumne Hill	3.51	9.83	5.86	0.63	1.65	0.08	0.00	T.	0.00	2.10	6.08	9.51	39.25
Monroeville	1.45	4.30	0.65	0.42	0.27	0.00	0.00	0.00	0.00	1.78	4.72	5.22	18.81
Monrovia Canyon	7.32	6.40	2.23	0.70	1.21	0.26	0.00	0.00	0.00	0.47	3.63	5.29	27.51
Montague	0.49	2.34	1.04	0.07	1.02	1.02	0.04	0.29	0.20	1.68	0.56	5.28	14.03
Morongo Valley	2.33	0.74	0.99	0.14	.....	.....	.....	.....	.....	.....	.....	1.06	.....
Mountain Springs	8.60	7.15	2.70	1.50	1.15	0.00	0.00	0.00	0.00	0.95	2.97	8.95	33.97
Mount Tamalpais	7.54	10.47	6.86	1.71	1.89	0.22	T.	0.00	0.04	4.19	3.85	11.10	47.87
Mount Wilson	12.86	9.90	3.76	1.91	1.20	T.	T.	T	0.00	0.55	4.39	9.05	43.62
Mouth San Antonio Canyon	8.53	8.16	2.40	2.03	1.35	0.00	0.06	0.03	0.00	0.96	3.65	9.29	36.46
Napa	2.16	5.87	2.46	0.68	0.38	0.21	T.	T.	0.00	3.86	4.45	9.21	29.28
Needles	0.25	0.31	0.53	T.	0.19	0.10	0.01	1.47	0.55	T.	0.18	0.02	3.61
Neenach	2.88	2.20	2.68	0.55	0.15	0.00	0.00	0.00	0.00	.....	0.50	3.02	.....
Nellie	11.19	11.89	6.05	3.11	3.07	0.00	0.65	.....	.....	.....	2.80	8.90	.....
Nevada City	4.77	18.11	8.41	1.81	3.28	0.05	0.05	T.	T.	2.60	7.85	18.68	65.61
Newman	1.37	2.87	1.67	0.00	0.21	0.00	0.00	0.00	0.00	0.35	2.79	3.12	12.38
Newport Harbor	3.05	2.82	1.11	0.04	0.27	T.	T.	T.	0.00	T.	0.59	1.89	9.77
Nicolaus	2.04	5.44	1.88	0.80	0.76	0.00	0.00	0.00	0.00	1.50	3.81	8.87	25.10
North Bloomfield	4.87	15.99	9.43	2.06	3.76	0.65	0.00	0.00	0.00	2.75	7.88	16.25	63.64
North Fork	4.96	9.19	5.23	0.51	1.97	0.51	0.37	0.21	0.00	1.21	6.20	10.63	40.99
Oakdale (near)	2.36	4.48	2.05	0.50	0.36	0.07	0.00	0.00	0.00	0.52	1.89	3.90	16.13
Oakland	3.41	5.42	3.51	1.14	1.04	0.15	0.00	T.	T.	1.38	3.88	9.38	29.31
Ojai	5.35	4.49	2.66	0.20	0.51	0.00	0.00	T.	0.00	0.32	2.60	9.43	25.56
Opid Camp	7.61	17.55	.....	1.12	1.99	0.00	0.00	0.00	0.00	0.91	5.96	11.46	.....
Orland	1.36	4.62	0.51	0.17	0.48	T.	T.	0.00	0.00	2.02	4.18	4.59	17.93
Orleans	2.46	9.67	8.51	1.39	0.73	0.18	0.00	0.02	0.82	3.38	2.09	13.72	42.97
Oroville (near)	3.25	6.48	3.04	0.74	1.28	0.00	T.	0.00	0.00	1.50	2.75	11.08	30.12
Ozena	2.86	3.01	1.98	0.00	0.15	0.00	0.00	0.00	0.00	0.42	1.15	3.18	12.75
Pacoima	6.14	6.07	1.72	1.07	1.01	0.00	0.00	0.00	0.00	0.61	2.44	6.40	25.46
Palmdale	2.54	1.03	1.53	0.57	0.30	T.	0.00	0.00	0.00	0.09	0.98	1.89	8.93
Palo Alto	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.77	.....
Parkfield	3.68	3.49	2.36	0.20	1.03	0.00	0.00	0.00	0.00	0.45	2.55	4.87	18.63
Pasadena	6.49	5.21	2.31	0.32	0.91	0.06	0.01	0.00	0.00	0.54	1.82	4.97	22.64
Paso Robles (No. 1)	4.44	5.45	2.79	0.21	0.54	0.01	T.	0.00	0.00	0.41	3.39	4.61	21.85
Paso Robles (No. 2)	4.76	4.93	2.65	0.06	0.45	0.04	0.00	0.00	0.00	0.40	3.25	4.92	21.46
Pattiway	4.00	1.76	2.89	0.10	1.23	T.	0.10	0.00	0.00	0.40	0.81	1.53	12.82
Peachland	2.00	7.42	4.71	0.35	0.74	0.03	0.00	0.00	T.	3.99	5.62	12.64	37.50
Petaluma	1.94	4.90	2.15	0.24	0.34	0.12	0.00	0.00	0.00	2.28	3.43	10.06	25.46
Piedra	4.38	2.67	3.02	0.42	1.00	0.20	0.38	0.00	0.00	0.83	1.53	2.59	17.02
Placerville	4.58	14.29	8.13	1.20	3.00	0.00	T.	0.00	0.00	2.77	9.55	15.61	59.13
Point Loma	4.11	2.52	1.48	0.35	0.41	0.02	0.00	0.00	0.01	0.06	0.50	1.37	10.83
Point Reyes	2.06	2.69	1.97	0.19	0.39	0.07	0.00	0.00	0.02	1.77	3.40	5.43	17.99
Pomona	5.28	4.79	2.54	0.29	1.12	0.01	0.06	T.	T.	0.55	1.90	4.77	21.31
Porterville	2.69	2.22	2.02	0.82	0.62	0.64	0.07	T.	0.00	0.96	0.80	1.77	12.61
Portola	1.90	8.50	4.30	0.00	0.55	0.06	0.00	0.00	0.00	0.07	1.71	5.53	22.62
Priest Valley	3.89	6.69	2.93	0.28	0.60	0.00	0.00	0.00	0.00	0.51	4.66	6.86	26.42
Quincy	2.51	14.80	6.27	0.59	1.80	1.94	T.	0.00	0.01	3.37	6.14	11.13	48.56
Raywood Flat	5.35	12.59	2.74	1.95	1.50	0.00	0.48	0.48	0.08	2.30	4.00	8.67	40.14
Red Bluff	1.41	4.25	1.07	0.13	0.56	0.01	0.00	0.30	0.00	3.95	3.54	5.59	20.81
Redding	1.00	6.40	4.11	1.00	2.40	0.90	0.00	0.01	0.00	3.54	2.98	7.73	30.07
Redlands	5.80	2.66	2.39	0.85	1.35	0.00	T.	0.00	0.00	0.37	1.43	3.01	17.86
Reedley	3.15	2.66	2.36	0.22	1.55	0.24	0.10	0.15	0.00	0.95	1.00	2.14	14.52
Represa	3.57	6.40	3.03	1.18	1.47	0.00	0.00	0.00	0.00	0.69	4.73	9.06	30.13
Rio Vista	2.88	4.20	1.52	0.82	0.48	0.02	T.	T.	0.00	1.08	2.99	7.03	21.02
Riverside	4.30	2.36	1.93	0.23	0.88	0.00	0.02	0.09	0.00	0.30	1.18	2.25	13.54
Rocklin	3.43	7.12	3.38	0.70	1.20	0.00	0.00	0.00	0.00	1.40	4.15	9.59	30.97
Rose Mine	4.23	0.54	1.17	0.24	1.26	1.37	2.67	0.61	0.81	0.29	0.93	0.76	14.98
Ruth	2.80	12.75	7.30	1.40	.....	.....	0.00	0.00	0.30	3.35	4.55	9.15	.....
Sacramento	2.16	4.18	1.20	0.40	0.43	T.	T.	T.	0.00	0.72	3.03	6.12	18.33
St. Helena	1.55	9.33	2.98	0.38	0.35	0.09	0.00	0.00	0.00	2.45	5.68	11.43	34.24
St. John	2.11	4.66	1.15	0.52	0.36	0.00	0.00	0.00	0.00	3.24	5.05	5.67	22.76
Salinas	2.98	3.50	2.40	0.40	0.58	0.02	T.	0.00	0.00	0.88	2.87	2.54	16.17
San Antonio Canyon	5.24	10.44	4.33	1.62	1.62	0.00	0.05	0.04	0.00	0.63	4.71	10.05	38.73
San Antonio Intake	7.77	11.35	3.99	2.11	1.58	0.00	0.07	0.01	0.08	0.69	4.78	11.07	43.50

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
California—Continued.													
San Bernandino	6.60	3.75	2.45	0.75	1.27	0.00	0.02	0.02	0.00	0.46	2.04	3.16	20.52
San Diego	3.45	1.86	1.34	0.17	0.36	T.	0.01	T.	0.00	0.09	0.75	1.21	9.24
San Fernando	5.15	3.75	1.78	0.59	0.67	0.02	0.00	0.00	0.00	0.23	1.83	5.55	19.57
San Francisco	2.41	5.15	2.38	0.47	0.55	0.26	T.	T.	T.	2.95	3.77	7.77	25.71
San Gabriel Intake	9.88	10.39	3.19	1.85	1.32	T.	0.09	0.00	0.00	0.43	4.88	.....	.....
San Gabriel Powerhouse	6.57	6.58	2.41	0.48	1.11	0.25	0.03	0.00	0.00	0.54	2.55	6.52	27.04
San Jacinto	4.34	2.71	1.75	0.41	0.81	0.00	0.10	0.00	0.00	0.12	1.72	2.33	14.29
San Jose	2.46	3.01	1.74	0.32	0.50	0.01	T.	T.	0.00	1.55	2.72	4.68	16.99
San Luis Obispo	4.48	6.49	3.46	0.27	0.72	0.00	T.	0.00	T.	0.47	5.30	6.64	27.83
San Pedro	.....	.....	.....	0.20	0.60	0.00	0.00	T.	0.00	0.10	1.12	4.14	.....
Santa Ana	3.34	3.33	1.81	0.14	0.14	0.00	0.00	0.00	0.00	0.07	0.65	3.23	12.71
Santa Ana River	8.44	6.02	3.81	1.97	2.05	T.	0.43	0.19	0.05	1.29	2.48	6.66	33.39
Santa Anita Ranger Station	12.07	10.47	3.02	1.25	1.74	0.15	0.00	0.00	0.00	0.77	5.83	9.57	44.87
Santa Barbara	4.64	3.48	2.73	0.09	0.45	0.00	0.00	0.00	0.00	0.37	1.98	8.70	22.44
Santa Clara	2.41	3.63	1.76	0.24	0.53	T.	0.00	T.	0.00	1.33	2.97	4.72	17.59
Santa Cruz	3.95	6.35	4.15	0.78	0.70	T.	0.00	0.00	0.00	2.02	3.25	8.70	29.90
Santa Maria	4.90	2.97	2.50	0.22	0.35	0.00	0.00	0.00	0.00	0.32	1.34	3.59	16.19
Santa Monica	3.74	2.61	1.35	0.04	0.46	T.	T.	T.	0.00	0.20	.....	.....	.....
Santa Rosa	1.10	6.81	3.66	0.25	0.52	0.06	T.	0.00	0.00	2.79	4.92	10.84	30.95
Scotts Bar	1.25	4.74	4.38	1.20	0.53	0.62	0.00	0.00	0.25	1.14	1.80	4.30	20.21
Seriterre	3.35	7.09	4.28	0.71	1.70	0.03	T.	T.	0.00	2.36	3.90	12.70	36.12
Seven Oaks	7.81	7.99	4.04	2.67	1.49	0.42	0.37	1.25	0.58	1.65	3.65	5.57	37.49
Shield's Ranch	1.16	3.89	1.11	1.14	0.15	0.91	1.32	T.	0.00	T.	1.36	1.65	12.69
Sierra Madre (No. 1)	7.92	6.69	2.38	0.68	1.28	0.20	0.00	0.00	0.00	0.49	3.65	6.09	29.38
Sierre Madre (No. 2)	8.44	7.06	2.53	0.38	1.15	0.17	0.00	0.00	0.00	0.56	3.47	5.60	29.36
Sierraville	2.00	7.30	3.27	1.02	0.88	0.60	0.75	0.00	0.00	1.02	4.29	9.25	30.38
Sisson	1.30	7.50	5.20	0.65	1.50	0.60	0.00	0.40	0.03	4.75	4.30	3.95	30.18
Sister Elsie Peak	.....	.....	.....	.....	1.12	0.00	.....	.....	.....	.....	3.73	6.62	.....
Snow Creek	4.71	2.02	1.60	0.50	0.63	0.00	T.	0.78	0.02	0.39	1.21	1.16	13.02
Sonora	2.75	8.29	7.76	0.93	1.40	0.66	0.00	0.00	0.00	0.97	5.91	9.98	38.65
Spaulding	5.77	25.29	13.36	2.24	4.63	1.21	0.00	0.00	0.05	3.00	8.85	17.58	82.00
Spreckels	2.92	2.90	1.94	0.43	0.58	0.00	T.	0.00	0.00	0.64	2.60	2.52	14.53
Springville (near)	4.88	7.58	4.43	2.26	1.63	0.25	0.17	0.45	0.00	1.69	4.14	9.83	37.31
Squirrel Inn	14.48	13.02	4.29	2.97	3.03	0.00	5.01	0.00	T.	1.31	4.90	12.75	61.76
Stanley-Miller Mine	7.57	7.96	3.67	2.86	1.00	0.00	0.11	0.10	0.10	0.68	3.63	7.72	35.40
Sterling	0.65	0.00	T.	0.00	0.00	T.	0.00	0.50	1.05	0.00	0.13	0.00	2.33
Stockton	3.02	4.35	1.32	0.35	0.71	0.06	T.	T.	0.00	0.57	3.51	5.85	19.74
Storey	3.07	2.24	2.82	0.25	0.96	T.	T.	0.00	0.00	0.55	1.77	2.26	13.92
Stratton Ranch	8.63	13.09	2.74	1.73	2.80	0.00	0.53	0.74	T.	0.37	1.24	9.06	40.93
Sulphur Banks	0.78	4.94	1.60	0.15	0.24	T.	0.00	0.20	0.00	2.92	3.98	7.88	22.69
Summit	5.10	15.10	11.10	3.10	3.60	0.78	0.00	0.00	0.00	2.66	8.60	14.20	64.24
Tahoe	2.95	13.19	4.60	1.03	1.66	0.80	0.31	0.23	0.00	1.05	3.72	10.88	40.42
Tamarack	3.13	11.80	5.29	2.37	5.47	2.80	0.95	0.60	0.00	1.82	7.62	10.89	52.74
Tejon Rancho	3.25	1.73	3.13	1.09	0.00	T.	0.00	0.00	0.00	0.75	0.70	0.42	11.07
Three Rivers	2.93	4.58	2.87	0.57	1.47	0.53	0.11	0.02	0.00	1.14	1.77	5.11	21.10
Trona	2.24	0.21	0.53	0.00	0.03	0.01	0.19	0.44	0.00	0.03	0.25	1.03	5.06
Tujunga	6.82	5.87	2.91	1.01	1.02	T.	0.01	T.	0.00	0.20	2.52	4.89	25.25
Turlock	2.58	3.85	2.42	0.35	0.54	0.00	T.	0.00	0.00	0.54	2.48	5.02	17.78
Tustin (near)	3.54	3.25	1.60	0.15	0.67	T.	0.00	0.00	0.00	0.08	0.74	2.64	12.67
Twin Lakes	.....	.....	.....	.....	.....	.....	2.18	0.10	0.00	1.20	3.04	15.90	.....
Twin Valley	1.86	17.51	5.35	0.64	0.70	0.27	0.00	T.	T.	6.75	5.96	12.63	51.67
Two Canyon Ranch	6.40	6.63	2.29	1.09	0.97	0.17	T.	0.00	0.00	0.82	3.54	7.46	29.37
Ukiah	1.63	10.42	4.70	0.60	0.35	0.91	0.00	0.00	0.00	4.59	4.38	10.12	37.70
Upper Mattole	3.56	16.04	11.63	2.12	0.90	0.00	0.00	0.00	0.48	5.26	4.48	18.06	62.53
Vacaville	2.62	7.40	2.52	0.28	0.62	T.	0.00	T.	0.00	2.31	4.29	10.22	30.26
Valyermo	4.54	1.66	1.38	0.15	0.27	0.00	0.22	0.01	0.00	0.18	1.22	.....	.....
Ventura	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.62	0.68	5.29	.....
Visalia	2.76	1.71	1.79	0.15	0.59	0.58	0.00	0.00	0.00	0.71	0.91	2.85	12.05
Voltaire	4.92	4.64	2.35	0.94	0.21	0.00	T.	0.00	0.00	0.37	1.99	9.07	24.49
Walnut Creek	1.58	6.77	1.94	0.38	0.64	0.09	0.00	0.00	0.00	1.72	3.32	7.98	24.42
Warner Springs	4.88	4.80	3.90	0.90	0.00	0.25	1.53	2.35	0.00	0.35	0.75	2.57	22.28
Wasco	1.83	2.34	1.77	0.32	0.33	0.45	0.00	0.00	0.00	0.35	T.	1.20	8.59
Wasioja	2.39	3.85	2.69	0.25	1.20	0.00	0.00	0.00	0.00	0.25	.....	.....	.....
Watsonville	2.71	5.35	2.95	0.68	0.76	0.00	0.00	0.00	0.00	1.23	4.49	3.71	21.88
Weaverville	1.98	7.07	4.63	0.42	1.05	0.53	0.00	0.00	0.00	3.47	2.48	10.02	31.65
West Branch	4.19	24.14	10.75	1.93	3.71	0.14	0.00	0.00	0.00	4.65	7.52	16.13	73.16
West Point	4.48	12.57	8.64	0.52	1.64	0.14	0.02	0.01	0.00	1.78	7.11	13.46	48.37
Westwood	1.70	11.32	4.24	0.76	1.07	0.82	0.34	0.01	T.	1.84	4.20	6.58	32.88
Whitewater Canyon	4.80	1.33	1.67	0.60	0.63	0.00	0.00	0.80	0.00	0.35	0.90	1.40	12.48
Whitewater Ranch	4.15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Willows	1.07	4.82	0.44	0.09	0.47	T.	T.	T.	0.00	2.12	4.37	4.86	18.24
Wrights	3.29	12.72	4.75	0.59	1.13	0.23	T.	0.00	0.00	3.29	7.71	18.44	52.15
Yorba Linda	4.24	4.02	1.70	0.12	0.82	T.	T.	T.	T.	0.14	0.79	2.46	14.09
Yosemite	5.39	8.05	5.50	0.76	2.65	0.36	0.96	0.16	0.00	1.51	3.23	8.38	36.99
Yreka	0.58	2.67	1.95	0.59	1.41	1.22	0.06	0.00	0.13	1.66	0.49	5.83	16.55
Colorado.													
Akron	0.25	0.25	0.15	3.90	3.69	1.43	3.24	1.24	0.06	0.05	1.90	0.10	16.26
Ames	2.26	2.39	3.45	2.35	1.55	0.95	1.80	1.38	0.13	0.45	2.80	3.81	23.32
Ashcroft	1.09	0.94	1.57	.....	.....	.....	1.96	1.61	0.51	0.86	2.99	5.13	.....
Auldhurst	0.30	0.10	1.09	2.04	1.03	1.99	1.87	2.86	0.86	0.71	0.77	0.29	13.91
Boulder	0.63	0.59	0.81	3.32	1.02	0.62	1.04	1.50	T.	1.13	2.58	0.56	13.80
Buena Vista (near)	0.53	1.06	1.15	0.80	1.27	0.28	1.33	1.49	0.46	0.02	0.80	0.40	9.59
Burlington	T.	0.20	0.46	.....	2.56	4.20	2.09	3.04	0.16	0.18	1.44	T.	.....
Byers	T.	.....	.....	.....	1.45	0.67	1.42	4.47	.....	.....	.....	.....	.....
Calhan	0.09	0.24	0.47	3.37	1.34	0.57	2.23	4.36	0.48	T.	1.19	0.07	14.41
Canon City	.....	0.30	0.03	1.52	0.74	0.70	1.81	2.73	1.18	0.53	0.95	0.03	.....
Cascade	4.03	2.86	3.15	2.85	2.90	T.	0.85	2.35	0.50	0.15	4.50	3.40	27.54
Castle Rock	0.13	0.25	1.17	2.91	1.27	0.83	3.78	3.00	0.22	0.32	1.67	0.34	15.89
Cathedral	1.05	0.42	0.93	1.08	0.42	1.17	2.38	1.79	0.51	0.07	2.07	0.86	12.75
Cedaredge	.....	.....	.....	.....	.....	.....	.....	.....	0.11	0.09	0.45	0.94	.....
Cheesman	0.39	0.18	1.27	2.24	1.38	0.95	2.70	4.28	0.07	1.05	1.34	0.26	16.11
Cheyenne Wells	.....	0.50	1.50	3.55	1.40	1.68	3.22	3.77	T.	0.00	0.85	0.70	.....
Collbran	2.35	1.19	2.01	1.95	0.45	0.90	0.15	2.61	0.71	0.69	1.81	1.61	16.43
Colorado Springs	0.08	0.35	T.	1.80	1.51	0.73	2.04	2.43	0.18	0.14	0.60	0.01	9.82
Columbine	1.94	3.15	2.09	1.52	2.32	0.34	0.93	1.86	0.75	0.68	1.24	4.46	21.31

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Colorado—Continued.													
Columbine Ranch	4.04	2.16	1.11	2.05	1.40	0.04	2.70	2.03	0.47	0.88	1.62	4.73	23.23
Cope	.....	.....	.....	.....	2.56	3.10	.....	4.65	0.00	0.00	0.80	0.05	.....
Crawford (near)	0.34	0.68	0.27	0.52	.....	0.12	0.19	0.14	T.	0.00	.....	.....	.....
Crested Butte	2.15	2.83	3.30	1.65	1.10	0.49	0.22	0.18	0.06	0.00	1.37	7.42	20.77
Cuchara Camps	0.29	0.83	3.64	2.14	1.88	2.08	4.31	2.75	2.33	1.63	2.84	0.88	25.60
Cumbres	8.07	4.38	4.19	1.55	1.70	1.00	0.57	1.47	1.10	0.09	2.25	3.47	29.84
Del Norte	0.90	0.46	0.35	0.78	0.43	.....	.....	.....	.....	.....	.....	.....	.....
Delta	0.75	0.67	1.18	0.87	0.22	0.04	0.04	0.82	0.17	0.09	1.07	0.84	6.76
Denver	0.30	0.40	0.48	3.65	1.14	0.19	1.87	1.50	0.54	0.30	1.95	0.63	12.95
Dillon	0.48	1.58	1.07	2.64	0.55	0.08	2.02	2.41	0.37	0.77	1.53	3.33	16.80
Dolores	2.94	2.05	3.03	1.05	1.50	0.12	0.84	0.82	0.00	0.82	.....	2.01	.....
Dove Creek	2.79	.....	.....	0.10	.....	.....	.....	.....	.....	.....	.....	.....	.....
Durango	1.84	2.28	4.49	0.70	1.02	0.93	1.96	2.09	0.06	0.18	4.08	1.78	21.41
Eads	T.	0.50	0.70	4.76	.....	.....	.....	.....	.....	.....	.....	.....	.....
Edgewater	0.24	0.26	0.52	1.65	2.01	0.45	1.70	3.42	0.05	0.85	2.60	T.	13.75
Elk Creek	0.32	0.14	2.37	3.59	1.60	2.17	4.46	6.21	0.90	1.00	2.51	0.37	25.60
Estes Park Fish Hatchery	0.67	0.72	1.19	2.80	0.99	0.43	1.78	2.61	0.21	1.36	1.54	1.54	15.84
Flagler	0.15	0.30	1.00	3.16	0.83	1.19	2.74	2.35	0.11	T.	0.60	0.20	12.63
Flebbe Ranch	0.33	0.76	0.91	0.26	0.40	T.	0.46	0.48	0.30	0.24	0.72	1.26	6.12
Fort Collins	0.35	0.53	0.36	2.80	0.87	1.03	0.80	0.73	0.02	0.74	1.44	0.31	9.98
Fort Lewis	1.07	1.31	1.37	0.52	0.89	0.30	0.88	0.92	0.54	0.31	2.65	1.68	12.44
Fort Lupton	0.37	0.30	0.15	1.87	0.47	0.39	1.40	2.59	0.06	0.07	1.10	0.37	9.14
Fort Morgan	0.00	.....	0.10	2.80	2.59	1.46	0.77	1.07	0.00	0.14	2.31	0.25	.....
Fraser	0.92	2.71	1.93	3.38	1.18	0.39	1.85	2.19	0.54	0.75	1.93	3.64	21.41
Fremont Experiment Station	0.18	0.49	0.86	2.33	2.95	3.60	4.12	7.39	0.85	0.86	2.13	0.18	25.94
Fruita (near)	.....	.....	.....	0.62	0.73	0.50	0.22	0.72	0.40	0.16	0.84	0.84	.....
Fry's Ranch	0.89	0.42	0.96	1.77	0.44	0.02	0.90	0.73	0.11	0.71	1.30	1.18	9.43
Garfield	0.94	1.90	1.50	1.71	1.23	0.77	2.83	3.29	0.63	0.22	2.31	4.11	21.44
Garnett	0.44	0.48	1.20	0.91	0.18	0.55	0.55	0.07	0.12	0.00	0.56	T.	5.06
Georgetown	0.35	0.46	1.17	2.73	1.19	0.16	1.15	.....	.....	.....	.....	.....	.....
Glenwood Springs	1.65	3.13	1.48	1.69	1.32	0.80	0.88	2.72	1.45	0.55	1.17	1.54	18.38
Goodpasture	.....	0.74	1.64	2.37	2.72	1.75	2.73	2.31	0.31	1.15	.....	0.72	.....
Grand Junction	0.58	0.62	0.65	0.45	0.40	0.09	0.40	2.00	0.38	0.25	0.38	0.71	6.91
Greeley	0.29	0.36	0.15	1.73	1.25	0.25	1.46	1.72	0.05	0.02	0.61	0.43	8.32
Grover (near)	0.21	0.15	.....	1.27	1.95	1.15	3.93	0.64	0.07	0.01	1.67	0.25	.....
Gunnison	0.30	0.62	0.63	0.47	0.14	0.08	0.42	0.98	0.17	0.12	0.70	1.59	6.22
Hartsel	0.56	0.19	0.37	1.13	0.69	0.87	1.78	2.98	0.10	0.35	0.79	0.60	10.41
Haswell	.....	.....	.....	.....	.....	0.25	1.31	1.21	0.07	0.00	0.50	0.03	.....
Hawthorne	0.76	0.98	2.00	3.94	1.67	0.90	1.16	2.04	0.16	1.56	3.03	0.54	18.84
Haxtun	0.00	0.23	T.	3.68	1.76	1.14	2.01	1.65	0.00	0.00	1.89	0.00	12.36
Hayden	0.71	2.33	1.43	0.45	1.38	0.34	0.64	1.75	0.73	1.30	1.12	2.95	15.11
Hermit	2.90	0.73	1.11	1.54	0.78	1.21	1.05	2.52	0.55	0.31	1.77	1.12	15.59
Holly	0.00	1.00	1.30	3.06	2.96	0.88	2.74	3.22	0.28	T.	0.27	0.00	15.71
Hoyt	0.32	0.09	0.11	1.96	0.85	1.00	2.29	1.32	0.02	0.11	2.08	0.04	10.19
Huerfano	0.20	0.33	0.60	1.08	1.83	2.03	0.51	1.06	0.00	0.60	0.59	0.00	8.83
Idaho Springs	0.22	0.30	1.61	2.80	0.89	0.88	3.36	2.75	0.40	1.38	1.14	0.77	16.50
Ignacio	1.33	1.54	2.66	0.72	0.43	0.56	1.52	1.20	0.13	0.20	2.62	1.03	13.94
Julesburg	0.24	0.13	0.15	3.25	3.08	0.92	1.83	1.82	0.24	0.10	4.01	0.12	15.89
Kassler	0.51	0.41	1.42	3.62	2.37	0.55	2.73	2.17	0.07	0.80	2.12	0.68	17.45
La Junta	0.06	0.27	0.81	2.41	2.42	0.58	2.60	2.09	0.06	0.10	0.67	0.18	12.25
Lake Moraine	0.48	0.32	1.47	2.95	2.07	3.28	4.57	6.19	1.64	0.98	2.22	0.54	26.11
Lamar	0.00	0.55	1.20	3.10	1.80	0.85	1.29	1.16	0.15	0.00	0.52	0.18	10.80
La Porte	0.80	0.64	0.33	4.48	1.24	0.97	1.31	0.82	0.21	0.98	0.74	0.12	12.64
Las Animas	T.	0.58	1.22	2.65	1.21	0.31	3.64	0.70	0.00	0.00	0.66	T.	10.97
La Veta Pass	1.27	1.26	4.18	0.63	1.06	0.52	0.86	0.96	0.21	0.55	2.35	0.74	14.59
Lay	0.56	2.15	1.04	2.04	0.66	0.39	0.86	2.00	0.58	0.97	0.47	3.33	15.05
Leadville	1.03	1.88	1.24	1.71	1.05	0.47	3.62	5.46	0.23	0.90	1.75	3.17	22.51
Le Roy (near)	0.67	0.33	0.30	4.90	2.37	1.24	3.63	1.10	0.39	0.02	1.87	0.18	17.00
Limon (near)	0.05	0.10	0.23	3.88	0.68	1.04	1.49	3.93	0.14	0.00	2.56	0.05	14.15
Long Branch	0.27	0.40	0.65	5.81	1.09	1.21	2.95	4.17	0.16	T.	1.14	0.52	18.37
Longmont	0.29	0.28	0.53	1.66	0.16	0.38	1.45	1.02	0.29	0.24	1.64	0.34	8.38
Longs Peak (near)	0.53	1.28	1.59	2.84	1.88	0.80	2.39	2.06	0.31	1.30	1.15	0.89	17.02
Madrid	0.06	0.43	1.16	1.55	1.78	2.27	2.43	0.76	1.03	0.24	1.24	0.22	13.17
Manassa	0.05	0.25	0.34	0.39	0.65	0.76	0.37	1.50	0.31	T.	0.28	0.05	4.95
Meeker (near)	0.82	0.73	2.06	1.25	0.63	0.14	1.44	1.37	1.18	0.68	1.85	0.38	12.55
Mesa Verde Park	.....	.....	2.60	1.32	2.55	.....	.....	.....	.....	0.35	2.55	1.34	.....
Montrose	0.34	0.19	1.28	1.05	0.22	0.21	0.87	0.96	0.14	0.05	1.00	1.30	7.64
Monument	0.25	0.44	1.27	3.81	1.25	0.51	3.40	3.26	0.24	0.01	1.60	0.23	16.27
Morrison	0.56	0.93	1.95	4.50	1.56	0.74	2.24	3.36	0.42	0.72	2.19	0.82	19.99
Nast	1.06	2.09	1.38	0.83	1.28	0.20	1.44	2.76	0.59	0.26	2.16	4.96	19.01
North Lake	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.14	0.88	1.03	.....
Ordway	T.	0.19	0.31	2.03	4.00	0.20	0.47	0.54	0.00	0.00	1.11	.....	.....
Palisade Lake	4.38	3.02	5.11	1.81	2.35	1.75	2.11	3.99	1.23	0.55	4.76	3.05	34.11
Palisades	0.67	0.41	0.50	0.67	0.42	0.43	0.53	1.96	0.45	0.22	0.99	0.58	7.53
Paonia	1.66	1.66	2.20	1.79	0.73	.....	0.74	1.70	0.64	0.22	1.66	2.10	.....
Parker	.....	.....	.....	.....	.....	1.49	2.93	1.65	0.08	0.21	2.20	0.46	.....
Peetz	0.18	0.30	0.13	4.14	1.86	1.41	1.97	1.41	0.38	0.00	2.25	0.05	14.08
Pitkin	1.09	1.34	1.56	1.37	0.52	0.52	2.57	0.78	0.89	0.19	1.35	3.43	15.61
Platoro	.....	.....	.....	.....	.....	2.13	2.17	3.26	0.71	.....	.....	.....	.....
Pueblo	0.39	0.37	0.29	1.21	1.67	0.53	0.29	0.69	0.09	0.19	1.26	T.	6.98
Pyramid	1.75	2.69	3.63	2.28	1.16	0.47	1.62	1.95	0.80	0.87	2.20	4.24	23.66
Redvale	1.25	0.69	0.81	1.20	0.43	0.02	.....	.....	.....	.....	.....	.....	.....
Rico	2.10	2.14	4.01	2.15	1.48	1.24	2.42	4.23	1.17	0.86	2.94	3.32	28.06
Rifle	1.23	1.06	0.61	0.56	0.49	0.58	0.58	1.59	0.84	0.27	0.64	0.81	9.26
Rocky Ford (near)	0.02	0.25	0.50	1.46	1.63	0.55	1.28	0.33	0.00	0.00	0.97	T.	6.99
Saguache	0.80	1.38	0.55	T.	T.	1.60	.....	.....	.....	.....	.....	.....	.....
Salida	0.42	1.05	0.82	0.80	0.42	1.21	0.81	.....	.....	.....	1.87	0.34	.....
San Luis	0.16	0.12	1.65	0.73	1.51	0.83	1.52	0.93	0.28	0.38	0.34	0.11	8.56
Sapinero (near)	2.25	2.75	3.93	2.65	1.11	0.19	0.98	1.79	0.31	0.35	2.83	4.63	23.79
Savage Basin	1.96	2.76	6.71	3.07	2.65	0.52	2.75	2.30	0.49	0.63	4.95	4.29	33.02
Sedgwick	0.26	0.22	0.05	3.55	1.96	1.36	2.98	1.72	0.27	0.05	1.50	0.03	13.95
Shoshone	1.16	2.62	1.01	0.97	1.15	0.27	0.82	1.64	0.36	0.70	1.83	1.57	14.10
Silver Lake	0.85	3.11	2.00	3.58	1.20	1.56	2.76	0.35	0.15	1.85	1.25	1.98	20.63
Silverton (near)	2.72	1.48	3.71	1.86	1.52	0.18	0.78	3.00	1.18	0.18	0.48	1.33	18.42
Simpson (near)	0.35	0.28	1.06	5.78	1.36	0.91	2.65	3.67	0.00	0.10	3.13	0.27	19.56
Spicer (near)	0.81	0.84	0.36	0.21	0.07	0.03	0.13	0.64	0.46	0.57	0.70	2.18	7.00

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Colorado—Continued.													
Springfield	0.35	0.90	1.30	2.05	1.85	0.68	2.13	0.88	0.12	0.26	1.03	0.25	11.80
Steamboat Springs	2.81	4.22	2.82	1.60	1.23	0.72	1.23	2.37	0.92	1.20	1.87	5.61	26.60
Sterling	0.20	0.44	0.03	5.48	2.25	1.41	2.44	2.30	0.11	0.00	2.61	0.14	17.41
Strasburg	0.16	.....	.....	.....	2.71	0.24	2.19	2.05	.....	.....	.....	.....	.....
Tacoma	3.29	3.33	1.99	0.89	0.79	0.49	1.00	0.67	0.57	0.38	2.93	1.95	18.28
Telluride	2.03	1.46	2.91	0.71	1.39	0.12	1.72	2.25	0.05	1.90	1.80	1.78	18.12
Terminal Dam	4.08	2.31	3.75	1.76	1.60	0.10	1.19	2.34	0.10	0.10	4.15	3.01	24.49
Trinidad	0.11	0.64	1.75	2.31	2.04	1.63	4.89	1.74	1.21	0.08	1.40	0.35	18.15
Trout Lake	1.88	2.18	3.43	2.29	1.99	0.76	1.46	2.12	0.77	0.39	2.91	4.21	24.39
Two Buttes	0.01	0.60	0.37	3.14	1.15	1.22	2.50	0.93	0.17	0.07	0.24	0.33	10.73
Two Buttes Reservoir	.....	.....	.....	4.47	0.93	1.15	.....	.....	.....	T.	0.45	T.	.....
Utleyville	0.02	0.53	0.52	3.11	2.07	1.77	3.39	0.31	0.68	0.00	0.40	0.10	12.90
Victor (near)	0.23	0.53	0.72	1.45	1.56	1.10	3.99	3.16	0.47	0.53	1.82	0.40	15.86
Wagon Wheel Gap Experiment Station	2.29	1.04	2.34	1.34	1.70	1.05	1.82	3.08	0.54	0.42	3.49	0.84	19.95
Waterdale	.....	.....	.....	2.64	1.61	0.66	1.38	3.14	0.34	0.26	1.20	0.34	.....
Westcliffe	0.20	0.57	0.75	1.59	1.27	1.06	2.46	0.63	.....	.....	.....	.....	.....
Willard	0.31	0.22	0.15	5.16	2.32	2.88	3.83	2.05	0.33	0.00	2.26	0.16	19.67
Wray	0.24	0.44	0.29	4.90	.....	0.59	5.15	.....	.....	.....	1.88	.....	.....
Yampa	1.90	2.62	0.27	0.01	0.16	0.26	0.66	0.74	.....	1.70	1.63	1.47	.....
Yuma	0.35	0.32	0.10	3.65	4.67	2.12	4.08	2.18	0.00	0.16	T.	.....	.....
Connecticut.													
Bridgeport	2.82	2.94	4.47	2.84	4.27	.....	.....	.....	.....	4.28	1.51	3.25	.....
Canton	1.67	1.94	2.90	2.95	5.66	.....	4.78	5.00	1.95	4.35	0.92	3.93	.....
Colchester	2.03	2.33	7.05	2.79	5.72	7.38	3.33	7.35	1.83	2.40	1.34	3.58	47.13
Cream Hill	2.02	3.03	5.60	2.67	5.44	7.48	3.69	6.21	2.35	2.45	0.93	3.03	44.30
East Hartland	1.57	1.70	6.05	1.88	6.33	5.70	6.96	4.79	2.04	3.18	1.29	4.03	45.52
Falls Village	1.65	1.95	4.67	2.30	6.97	5.81	2.30	5.81	2.14	2.30	1.02	3.08	40.00
Hartford	2.19	2.02	5.09	2.46	5.42	6.92	5.16	6.84	2.06	2.48	0.89	4.52	46.05
Lake Konomoc	1.77	3.65	2.22	3.07	5.66	8.39	3.16	6.88	1.55	2.24	1.33	2.41	42.33
New Haven	2.08	2.84	5.01	3.06	4.65	7.32	5.14	3.01	1.86	3.18	1.48	3.70	43.33
New London	2.53	3.34	5.45	2.92	4.56	7.43	3.71	5.23	1.38	2.90	1.35	3.21	44.01
North Grosvenor Dale	1.81	2.62	6.39	2.63	3.53	7.25	5.40	5.15	4.64	3.18	1.26	1.82	45.68
Norwalk	1.59	2.77	4.32	2.57	4.41	7.41	5.98	3.31	2.38	2.58	1.55	3.60	42.47
Storrs	.....	.....	6.58	1.67	5.08	5.09	7.05	3.76	6.01	2.87	1.25	3.86	.....
Torrington	1.95	2.27	5.34	4.09	6.60	7.14	4.79	6.59	3.07	4.31	1.93	3.11	51.19
Voluntown	1.97	2.90	6.21	1.64	4.88	7.07	5.68	7.77	3.58	3.07	1.96	2.99	49.72
Waterbury	1.65	3.00	4.70	3.12	5.36	4.95	3.13	4.94	1.85	2.55	1.39	4.00	40.63
Delaware.													
Delaware City	3.21	2.52	4.01	2.08	1.93	5.69	2.57	2.02	1.61	1.39	0.60	2.53	30.16
Dover	3.94	2.94	4.34	1.98	1.74	7.23	6.43	4.73	3.20	0.89	0.62	3.44	41.48
Milford	4.12	3.50	5.20	2.59	1.19	5.51	6.12	5.67	2.03	1.42	1.12	5.04	43.51
Millsboro	4.92	3.71	4.84	2.34	3.47	5.20	9.54	6.12	2.98	1.58	1.07	5.71	51.48
Seaford	4.33	4.54	4.39	2.27	2.01	4.29	8.05	7.06	2.75	1.52	0.99	5.45	47.65
Wilmington	3.64	2.78	4.07	2.64	2.21	4.44	5.61	3.13	0.99	1.65	0.53	2.94	34.63
District of Columbia.													
Washington (Weather Bureau)	5.56	2.86	4.74	1.05	4.27	4.10	9.59	3.08	6.27	1.41	0.55	3.48	46.96
Florida.													
Allapattah	0.63	3.18	0.02	0.15	8.92	5.41	9.90	8.82	8.90	17.67	6.13	1.32	71.05
Apalachicola	2.38	3.67	3.66	0.63	9.27	1.63	9.70	8.25	4.06	7.42	0.72	4.98	56.37
Arcadia	.....	.....	.....	.....	.....	.....	.....	.....	.....	7.75	1.42	0.95	.....
Avon Park	2.17	2.62	0.83	0.14	8.56	6.87	6.67	7.47	7.54	9.35	1.52	1.37	55.11
Bartow	0.92	1.77	0.87	0.04	8.30	5.91	8.10	5.54	11.64	8.18	0.95	2.62	54.84
Blountstown	2.48	5.95	4.81	2.91	6.71	5.39	5.90	2.15	3.30	3.49	1.55	3.58	48.22
Bluff Springs	5.92	7.42	8.78	1.22	11.89	1.81	6.79	1.46	3.68	5.60	1.65	12.19	68.41
Bonifay	3.39	5.43	8.77	1.26	8.53	4.74	3.98	6.87	5.02	2.22	0.70	8.01	58.92
Bradentown	2.04	0.40	0.92	0.10	5.20	5.30	9.89	19.35	10.53	12.02	1.11	1.60	68.46
Brooksville	1.29	1.64	3.98	0.87	7.85	8.45	11.23	9.22	11.91	8.92	0.67	3.11	69.14
Carrabelle	2.67	2.74	3.52	2.00	6.96	2.08	4.95	8.40	5.70	5.88	0.64	5.25	50.79
Cedar Keys	3.23	3.24	2.90	0.00	5.48	4.96	9.47	7.17	2.94	4.07	0.31	3.71	47.48
Clermont	0.71	3.21	0.90	0.23	6.88	4.92	8.07	10.89	6.38	5.51	0.51	1.62	49.83
Cottage Hill	5.53	8.78	6.28	0.93	7.74	2.99	7.21	7.62	1.17	5.17	2.63	6.71	62.76
Crescent City	.....	2.34	3.21	1.96	7.70	13.45	5.00	3.52	7.66	8.73	0.35	1.97	.....
Davie	2.32	3.10	0.41	1.45	12.33	12.39	9.71	13.71	13.49	14.21	7.51	1.54	92.17
De Funiak Springs	3.71	5.18	11.50	1.27	8.69	13.52	5.03	3.90	4.92	3.63	1.87	6.92	70.14
De Land	0.90	1.10	1.57	0.25	8.51	5.90	4.04	7.47	10.01	12.04	0.60	3.64	56.06
Eustis	0.87	1.71	1.72	0.70	5.62	7.27	7.91	4.07	7.19	4.49	0.38	1.73	43.66
Federal Point	3.07	4.66	1.34	1.83	8.72	8.59	4.81	4.81	5.93	11.36	0.30	2.26	60.02
Fellsmere	1.46	1.39	1.02	1.00	3.32	4.15	9.13	6.70	11.74	12.14	1.36	0.56	53.97
Fenholloway	2.68	4.92	4.92	1.04	6.06	10.53	9.60	7.28	2.18	3.99	1.23	3.91	58.37
Fernandina	2.30	1.80	1.05	0.75	6.80	6.36	7.60	3.94	2.17	8.01	0.75	2.28	43.81
Fort Lauderdale	5.34	1.43	0.22	0.90	11.63	9.22	9.18	8.53	11.00	15.24	7.58	2.29	82.56
Fort Myers	0.86	2.55	0.72	0.02	8.42	15.11	6.07	10.51	17.35	11.08	3.71	0.95	77.35
Fort Pierce	2.19	3.19	0.60	0.65	2.54	2.94	4.34	5.88	8.44	10.46	2.10	0.67	44.00
Gainesville	3.03	3.45	3.25	2.16	7.59	3.93	5.09	6.25	4.26	7.86	0.17	4.29	51.33
Garniers (near)	4.08	.....	6.83	1.34	9.54	2.91	8.92	7.27	1.68	4.91	2.57	5.48	.....
Glen St. Mary	2.93	5.18	2.90	0.35	7.90	4.39	3.45	10.29	.....	10.77	0.00	2.87	.....
Griffin	2.50	1.03	0.30	1.78	7.99	11.54	9.76	11.23	9.26	9.16	5.65	0.92	71.12
Hilliard	3.39	3.37	3.35	0.53	11.28	5.39	5.15	13.89	.....	6.31	1.72	.....	.....
Homestead	0.25	0.66	0.00	3.60	10.15	9.99	7.50	.....	.....	23.89	3.67	.....	.....
Hypoluxo	1.63	1.52	0.00	2.47	10.51	7.69	6.01	10.03	9.22	12.98	5.59	0.66	68.31
Inverness	1.56	1.35	2.47	1.55	8.70	7.03	6.95	8.75	7.00	6.07	0.21	2.48	54.12
Isleworth	.....	1.00	0.53	0.35	8.14	6.92	4.96	9.41	7.98	6.39	0.62	1.02	.....
Jacksonville (Weather Bureau)	3.21	5.56	3.69	1.39	7.18	5.88	3.91	7.71	6.70	8.34	0.58	2.54	57.19
Jacksonville (No. 2)	3.55	5.42	3.34	.....	.....	.....	.....	.....	.....	.....	.....	2.16	.....
Jasper	.....	2.50	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.60	.....
Johnstown	2.87	3.58	1.97	0.45	6.97	4.54	4.55	6.47	4.98	10.36	T.	3.36	50.10
Jupiter	2.90	1.81	0.46	1.94	4.47	5.63	8.66	7.17	8.97	.....	2.30	0.84	.....
Key West	2.60	1.44	0.08	0.08	5.01	3.78	6.90	3.51	5.56	8.31	3.36	3.02	43.65

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Florida—Continued.													
Kissimmee	0.75	1.27	0.55	0.20	7.93	4.99	5.65	8.88	4.57	5.14	1.08	2.36	43.37
Lake City	2.19	5.18	2.85	0.53	7.85	5.97	5.50	4.06	4.55	4.42	0.04	2.49	45.03
Lakeland	0.46	2.00	1.50	0.25	8.45	8.44	10.70	8.32	7.77	7.73	1.40	2.99	60.01
Lake Wales	1.60	2.28	0.73	0.38	9.26	6.30	7.02	6.67	6.84	7.21	0.82	1.94	51.05
Live Oak	2.84	5.75	3.51	0.63	5.62	10.53	3.38	6.00	5.52	8.51	0.38	3.20	55.87
Lock No. 4	2.87	1.98	0.40	2.01	9.02	11.04	15.10	13.98	15.86	13.85	6.14	0.93	93.18
Long Key	3.05	2.18	0.23	0.91	10.10	4.11	8.54	7.71	14.52	9.11	1.78	2.68	64.92
Lynne (near)	2.43	4.24	3.92	0.86	7.00	3.80	7.30	7.88	11.34	4.72	0.13	2.37	55.99
McDonald	0.74	1.64	1.14	0.33	5.87	8.44	6.41	7.80	9.94	5.86	0.41	1.45	50.03
Madison	2.77	5.31	3.61	1.78	4.73	7.60	3.37	6.93	3.42	2.60	0.81	4.55	47.48
Malabar	0.78	2.11	1.28	0.27	3.73	4.05	4.68	16.53	5.59	9.35	0.98	0.90	50.25
Marianna	2.68	5.72	2.86	2.01	4.55	7.03	5.32	2.97	5.20	3.83	0.53	7.73	50.46
Melrose	.....	.....	.....	0.60	10.40	9.61	4.03	3.70	5.96	8.81	0.00	3.51	.....
Merritts Island	0.84	0.70	0.71	0.03	7.39	8.02	2.84	3.92	8.89	6.80	1.00	1.08	42.22
Miami (Weather Bureau)	0.55	3.14	0.13	0.54	9.06	4.50	8.16	7.97	11.04	15.85	5.44	1.19	67.57
Miami (No. 2)	1.93	2.98	0.04	0.17	9.43	4.40	7.56	9.24	10.31	15.14	5.65	1.12	67.97
Middleburg	3.22	5.22	3.54	0.93	8.05	4.58	3.14	7.23	7.42	7.95	0.22	2.50	54.00
Monticello	2.74	5.04	7.95	2.14	9.30	3.95	3.45	8.09	4.06	4.84	1.06	6.83	59.45
Moore Haven	0.70	1.10	0.74	0.46	5.14	9.82	7.63	6.72	14.93	10.70	1.56	0.89	60.39
Mount Pleasant	2.70	.....	.....	.....	.....	2.81	3.15	12.74	5.15	5.66	0.60	5.73	.....
New Smyrna	1.11	1.22	1.06	0.37	7.90	6.22	3.48	5.88	5.40	4.58	0.82	2.09	40.73
Ocala	3.25	2.40	2.54	1.23	8.43	6.48	9.18	4.62	10.54	6.38	0.46	2.98	58.49
Okeechobee	0.49	0.84	0.34	0.00	3.81	9.97	6.41	5.20	9.72	8.06	0.83	0.58	46.25
Orlando	1.06	1.38	1.27	0.10	5.88	9.75	4.84	9.38	7.78	6.95	0.75	2.06	51.20
Palatka	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.90	.....
Pensacola	4.62	2.93	6.01	0.39	9.74	1.74	7.51	11.61	1.94	6.58	0.72	6.02	59.81
Pinellas Park	1.10	0.62	2.38	0.48	6.74	2.19	16.02	16.62	10.40	13.81	1.23	4.53	76.12
Punta Gorda	2.89	2.27	0.28	0.03	5.47	4.13	10.62	13.96	13.43	9.18	2.00	1.02	65.28
Quincy	2.83	4.42	5.38	2.18	11.70	11.58	5.35	6.35	3.30	7.89	0.71	4.31	66.00
Ritta	0.65	0.72	0.00	0.71	11.15	7.99	4.24	7.58	11.42	13.29	0.18	0.35	58.28
St. Andrew	1.87	5.43	4.78	1.04	6.04	2.44	8.35	12.48	5.81	3.05	1.96	.....	.....
St. Augustine	4.09	3.88	0.65	0.77	8.72	4.62	5.51	6.45	11.43	7.99	0.70	3.31	58.12
St. Cloud	1.18	1.83	0.90	0.00	4.56	6.70	4.18	.....	.....	5.31	0.86	.....	.....
St. Leo	1.27	0.51	1.94	0.06	7.86	4.65	11.79	10.14	11.80	7.45	3.05	1.31	61.83
St. Petersburg	1.57	0.49	0.81	0.42	3.52	4.30	14.66	16.04	9.78	10.05	1.23	4.36	67.23
Sand Key	3.04	2.22	0.27	0.01	4.91	0.54	1.68	1.76	1.98	9.05	3.87	2.34	31.67
Sanford	0.77	1.02	1.26	0.32	5.44	5.08	5.06	12.44	8.35	8.74	0.33	3.04	52.46
Satsuma Heights	2.18	4.20	1.94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Switzerland	.....	3.50	1.89	0.53	7.81	5.58	5.98	5.31	11.33	5.14	.....	2.46	.....
Tallahassee	2.32	4.22	4.65	4.41	7.32	10.96	5.06	4.62	5.52	4.89	0.47	4.83	59.35
Tampa	1.16	0.52	1.24	0.16	3.40	2.41	7.15	8.52	8.46	10.33	1.01	3.57	47.93
Tarpon Springs	1.25	1.19	1.73	0.05	5.04	2.04	8.20	14.49	10.68	8.13	1.17	1.42	55.39
Temple Terraces	1.35	0.27	0.38	0.16	4.59	4.91	8.33	8.54	7.57	12.38	2.79	2.46	53.73
Titusville	1.64	1.03	0.72	0.00	7.07	8.45	4.98	11.05	9.51	6.72	0.70	1.48	53.35
Wausau	.....	.....	2.96	1.89	5.28	.....	.....	.....	.....	1.50	0.63	.....	.....
Georgia.													
Abbeville	2.68	7.01	6.60	1.70	6.92	1.93	4.19	3.50	0.77	1.88	0.60	6.40	44.18
Adairsville	7.45	5.40	7.36	4.06	5.77	5.45	6.13	2.38	1.56	2.90	0.55	6.20	55.21
Alapaha	2.76	6.08	4.90	0.33	7.73	5.10	5.59	4.01	0.75	6.27	0.43	4.77	48.72
Albany	3.04	7.22	7.23	2.28	9.92	7.17	1.60	4.05	0.63	3.70	1.27	7.54	55.65
Americus	4.41	6.06	5.82	2.90	8.49	5.10	5.58	5.65	1.20	5.57	0.96	5.89	57.03
Athens	5.52	8.61	8.53	5.76	5.35	4.13	7.27	1.83	1.10	3.35	0.70	3.54	55.09
Atlanta	5.03	6.55	10.30	4.34	8.01	4.41	6.97	2.72	1.16	3.48	1.42	6.20	60.59
Augusta	2.70	5.05	8.62	3.03	5.16	4.28	4.97	3.97	1.47	6.50	0.49	3.36	49.60
Bainbridge	3.40	6.79	2.69	2.00	10.50	6.90	5.45	4.25	4.05	3.36	0.95	4.80	55.14
Blakely	4.24	6.74	9.04	1.42	7.68	5.88	4.01	2.94	3.03	1.89	1.19	9.22	57.28
Blue Ridge	11.65	5.40	10.83	5.23	8.84	4.46	2.70	4.50	1.17	3.84	1.55	10.50	70.67
Brunswick	2.73	4.02	4.48	1.49	8.78	4.99	7.50	5.65	3.41	8.11	0.24	2.15	53.55
Butler	3.52	5.60	10.64	3.03	6.90	5.12	8.62	3.09	1.45	4.87	0.63	6.09	59.56
Canton	7.91	6.94	7.19	7.58	7.53	3.31	5.36	0.86	1.52	2.94	2.32	5.88	59.34
Carlton	5.22	8.56	7.79	5.76	5.57	3.66	4.57	3.05	1.15	4.27	0.80	3.55	53.95
Clayton	9.30	5.51	14.40	7.17	12.23	3.98	10.04	1.70	1.00	3.65	1.25	12.40	82.63
Columbus	5.34	5.80	10.85	3.66	5.30	2.28	5.52	2.64	0.96	2.60	1.05	5.28	51.28
Concord	6.24	6.27	11.02	2.32	7.85	5.22	3.35	3.08	0.60	1.29	1.67	4.68	53.59
Cornelia	6.78	6.74	8.57	5.59	8.18	5.99	5.69	2.95	2.35	2.46	0.59	8.88	64.77
Covington	6.15	8.95	9.65	6.10	5.80	7.55	4.15	0.90	0.35	4.05	1.75	4.68	60.08
Dahlonega	9.28	6.51	7.49	7.62	6.77	5.40	7.17	4.47	1.71	2.51	0.84	9.04	68.81
Dublin	4.10	6.80	8.10	2.36	8.01	7.29	2.42	5.83	1.07	1.95	0.19	7.44	55.56
Eastman	2.90	6.82	10.84	1.54	6.80	5.86	5.50	1.59	1.51	2.56	0.56	6.15	52.63
Eatonton	3.51	6.26	11.37	4.61	6.53	4.34	3.27	2.73	1.62	4.49	0.89	4.20	53.83
Fair View	3.94	5.92	12.48	2.35	6.48	7.10	4.05	1.43	0.58	4.44	1.20	4.23	54.20
Fort Gaines	3.27	4.24	8.95	2.37	5.29	8.67	3.57	3.72	0.45	4.65	1.90	7.60	54.68
Fort Valley	4.24	4.67	9.73	2.63	5.90	3.74	5.95	4.28	2.63	2.91	0.62	7.47	54.77
Gainesville	6.70	8.02	6.75	5.82	6.44	5.60	5.25	1.50	1.60	2.53	0.99	5.20	56.40
Gillsville	5.33	7.67	6.32	6.28	5.40	4.41	5.05	2.80	3.60	2.01	0.60	7.47	56.94
Glennville	2.50	6.03	5.68	1.09	6.76	7.23	4.06	5.97	1.43	4.69	T.	4.83	50.27
Goat Rock	4.98	5.44	6.86	4.00	6.45	1.96	4.87	5.53	0.74	1.51	1.56	4.29	48.19
Greensboro	3.38	4.80	8.38	3.84	7.75	5.17	6.41	1.90	0.70	4.30	0.41	3.50	50.54
Griffin	5.02	7.85	9.44	3.96	7.23	5.18	3.23	2.42	0.49	1.48	2.12	3.46	51.88
Hartwell	4.51	8.56	7.07	5.47	5.28	1.96	5.75	1.42	1.61	2.58	0.52	4.75	49.51
Hawkinsville	2.99	5.10	8.83	2.07	6.29	4.16	6.62	2.06	1.46	1.90	0.36	6.49	48.33
Hazlehurst	2.98	6.13	4.13	1.22	5.62	5.39	3.71	4.91	2.21	4.40	0.23	5.35	46.28
Lisbon	2.71	6.62	8.85	5.77	6.96	2.34	2.07	2.30	1.97	5.43	0.56	3.16	48.74
Louisville	2.57	6.26	8.08	3.09	7.47	5.90	.....	.....	.....	.....	.....	3.50	.....
Lumber City	3.13	5.38	4.94	1.80	4.47	4.27	2.65	3.94	0.55	4.79	0.09	6.30	42.31
Macon	3.16	5.78	10.70	1.71	5.89	5.46	7.14	2.52	0.57	4.73	0.54	5.48	53.68
Marietta	5.06	7.73	8.84	5.19	6.64	2.61	3.60	1.12	2.78	3.22	1.33	5.16	53.28
Marshallville	4.96	5.73	12.31	1.63	8.24	6.87	3.35	5.83	2.53	2.84	0.82	7.11	62.23
Milledgeville	3.80	7.11	11.31	4.27	7.84	5.47	5.11	4.60	0.63	4.44	1.66	3.66	59.90
Millen	3.10	6.30	6.15	1.10	9.80	3.35	7.20	3.50	0.90	3.35	0.00	5.90	50.65
Montezuma	3.45	5.73	6.72	2.18	6.75	6.04	5.21	4.33	3.73	3.24	1.55	5.87	54.80
Monticello	4.40	6.36	10.98	3.43	7.03	8.04	2.89	2.20	0.65	4.08	1.46	4.12	55.64
Newnan	6.76	6.07	12.69	4.59	5.27	8.91	3.84	2.54	1.87	2.27	1.21	3.58	59.60
Norcross	5.08	7.47	7.45	5.94	5.84	5.29	6.20	3.05	1.24	2.72	1.41	5.71	57.35
Point Peter	5.10	7.99	8.59	5.98	5.51	4.05	4.53	3.17	1.11	4.42	1.00	4.72	56.17

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Georgia—Continued.													
Quitman	2.61	3.84	5.82	2.13	8.18	3.86	5.48	6.12	1.83	2.91	1.53	6.78	51.09
Ramhurst	9.53	5.88	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Resaca	8.14	6.17	10.37	6.17	5.74	5.60	4.47	2.59	1.01	2.76	0.88	7.17	61.16
Rome	7.56	5.42	7.33	5.80	8.87	6.56	3.95	2.86	0.67	2.27	0.88	6.97	59.14
St. George	2.25	3.90	2.77	0.55	8.70	4.15	6.83	7.45	2.16	8.67	0.53	2.03	49.99
Savannah	3.01	6.64	4.68	1.07	7.86	5.85	5.21	8.18	7.16	4.94	0.01	3.65	58.26
Statesboro	.....	4.29	5.36	0.50	.....	5.17	4.54	5.10	2.71	5.65	T.	2.89	.....
Talbotton	5.44	6.11	8.80	2.88	8.94	6.98	2.76	2.14	0.74	4.60	0.99	7.25	57.63
Tallapoosa	5.35	9.13	6.99	6.91	7.14	6.97	4.96	1.98	0.92	2.34	2.13	7.94	62.76
Thomasville	2.72	4.64	4.12	0.64	8.21	5.36	3.64	2.71	3.42	4.75	1.10	6.33	47.64
Tifton	.....	.....	.....	0.30	7.08	2.90	5.71	2.21	1.49	3.79	0.75	4.68	.....
Toccoa	6.59	6.85	7.66	6.99	7.06	4.15	6.05	2.30	1.46	3.08	0.33	8.97	61.49
Valdosta	2.65	5.29	5.15	1.70	8.41	6.24	3.95	6.78	1.97	4.76	1.18	5.25	53.33
Warrenton	3.52	6.13	10.43	5.86	6.69	4.40	3.80	1.31	2.63	5.09	0.38	3.71	54.85
Washington	3.25	7.34	11.50	4.96	8.68	1.29	6.77	2.24	1.24	5.00	0.54	3.33	56.14
Waycross	3.01	6.19	4.36	0.69	7.38	9.00	4.24	5.97	1.70	5.46	0.26	4.04	52.30
West Point	4.87	7.49	10.97	4.32	5.98	3.09	4.22	6.25	0.10	1.50	1.52	4.54	54.85
Woodbury	5.17	7.01	11.53	3.95	7.94	4.93	5.90	1.66	0.50	1.84	1.23	4.12	55.78
Idaho.													
Aberdeen	0.95	0.76	0.27	1.54	1.05	0.80	0.51	2.16	0.00	0.27	0.43	0.75	9.49
Alpha	1.70	4.27	4.31	2.24	2.59	0.76	0.38	1.20	0.16	0.52	1.22	5.52	24.87
American Falls	1.50	0.75	0.47	1.86	1.75	0.75	0.39	1.40	0.00	0.73	0.76	1.00	11.36
Arco	2.00	0.90	1.29	0.82	0.53	1.15	0.11	2.05	0.00	T.	1.00	2.44	12.29
Argora	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.20	1.85	.....
Arrowrock	1.14	0.79	2.46	1.48	0.46	0.68	0.20	1.20	0.00	0.56	0.95	2.79	12.80
Ashton	2.47	1.96	0.62	0.65	1.24	1.13	1.39	1.49	0.00	0.59	0.63	1.42	13.59
Atlanta	.....	.....	.....	.....	.....	.....	0.67	1.87	0.00	0.74	.....	.....	.....
Avery	2.10	3.54	2.09	2.40	1.02	0.61	0.59	0.83	0.85	1.44	1.49	5.06	21.02
Big Smoky Ranger Station	.....	.....	.....	.....	.....	1.66	0.20	1.84	0.00	.....	.....	.....	.....
Blackfoot	1.30	0.93	0.52	1.06	2.41	0.81	0.50	1.51	T.	0.51	0.52	0.80	10.87
Bliss	1.56	0.54	.....	.....	.....	.....	.....	0.93	0.00	0.37	0.83	0.68	.....
Bogus Creek	0.98	3.00	5.05	3.46	2.96	1.15	0.34	1.49	0.07	0.51	0.91	4.78	24.70
Boise	0.90	1.00	2.36	1.51	1.56	0.57	0.19	1.13	0.01	0.52	0.52	1.73	12.00
Bostetter Ranger Station	.....	.....	.....	.....	.....	1.40	1.18	2.14	T.	0.37	.....	.....	.....
Boulder Mine	2.42	3.92	4.45	2.07	2.94	1.14	0.30	2.74	0.05	0.36	1.75	6.22	28.36
Brownlee	1.32	1.98	1.95	2.60	.....	.....	.....	.....	.....	.....	.....	.....	.....
Buhl	1.40	0.45	0.47	1.10	1.78	0.58	0.27	0.66	0.00	0.17	0.68	0.50	8.06
Burley	1.40	1.25	0.38	2.11	1.20	1.26	0.48	2.07	0.00	0.41	0.55	0.60	11.71
Caldwell	0.80	0.50	1.07	0.82	0.78	0.78	0.05	0.45	0.00	0.46	0.64	1.66	8.01
Camas	1.40	0.38	1.17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cambridge	.....	.....	.....	.....	.....	0.47	0.43	1.05	0.00	0.52	0.58	6.71	.....
Challis	0.61	0.39	0.87	1.51	0.35	2.20	0.89	1.19	0.07	0.00	0.30	1.06	9.44
Chesterfield	.....	.....	2.50	1.77	1.82	.....	.....	.....	.....	.....	.....	.....	.....
Coeur d'Alene	1.99	1.70	2.23	2.64	0.28	0.09	0.38	1.18	0.71	1.78	0.77	5.11	18.86
Cottonwood Creek	1.14	1.05	3.70	1.96	1.01	0.70	0.15	1.70	0.00	0.60	1.19	5.09	18.29
Council	2.60	2.96	4.51	2.15	1.74	0.65	0.52	1.07	0.29	0.57	1.02	5.67	23.75
Cuprum	1.86	2.56	2.86	1.71	2.19	1.51	0.30	2.26	0.84	0.83	0.75	6.00	23.67
Deer Flat	0.65	0.59	0.68	0.72	0.74	0.98	0.03	0.20	0.00	0.56	0.17	2.44	7.76
Driggs	2.14	1.34	0.78	.....	.....	.....	1.54	2.88	0.61	0.48	.....	.....	.....
Dubois	.....	0.79	1.41	0.69	1.63	0.63	1.58	1.68	0.00	0.85	.....	.....	.....
Emmett	0.93	1.31	1.81	1.24	0.42	0.77	0.02	0.72	T.	0.43	0.56	2.02	10.23
Felt	0.88	1.50	0.50	0.28	0.73	1.02	1.40	1.91	T.	0.51	0.73	1.50	10.96
Fish Lake Ranger Station	.....	.....	.....	.....	.....	.....	1.87	1.15	.....	.....	.....	.....	.....
Fort Hall	0.59	0.98	0.62	1.09	1.88	1.03	0.71	1.18	T.	0.64	0.48	0.59	9.79
Garden Valley Ranger Station	1.18	1.88	3.54	1.59	1.25	0.58	T.	1.26	.....	.....	.....	3.21	.....
Geneva	0.65	4.03	0.83	0.95	0.45	T.	0.60	0.91	0.33	0.31	0.42	0.60	10.08
Glenns Ferry	0.80	0.46	0.86	1.66	0.52	0.95	0.13	0.10	T.	0.34	0.15	1.62	7.59
Gooding	1.66	0.78	0.74	1.59	0.71	0.69	T.	0.48	0.00	0.08	0.89	0.81	8.43
Grace	1.82	2.11	0.32	1.53	1.05	0.79	2.11	0.88	0.41	0.15	0.93	1.19	13.29
Grandview Ranger Station	.....	.....	.....	.....	1.67	2.56	1.26	2.63	0.20	0.81	.....	.....	.....
Grangeville	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.23	0.51	2.56	.....
Gray's Lake	3.03	1.80	1.40	2.12	1.52	0.81	.....	.....	0.80	.....	.....	.....	.....
Grimes Pass	1.83	3.50	3.68	1.60	1.91	0.85	0.35	2.69	0.08	0.28	1.22	6.11	24.10
Gunnell Ranger Station	.....	.....	.....	.....	1.40	.....	.....	1.78	.....	.....	.....	.....	.....
Hailey	1.71	1.78	2.77	1.62	0.68	1.76	0.02	1.15	0.00	0.25	1.21	4.27	17.22
Hawley Gulch Ranger Station	.....	.....	.....	.....	.....	1.50	1.29	2.25	0.35	0.94	.....	.....	.....
Hazelton	1.35	1.13	0.88	1.94	.....	.....	T.	2.39	0.00	0.36	0.64	0.99	.....
Hereford Ranger Station	.....	.....	.....	.....	.....	.....	0.80	3.55	.....	0.76	.....	.....	.....
Hill City	.....	.....	.....	1.12	0.50	1.15	0.19	1.26	0.00	0.59	0.66	4.83	.....
Hollister	0.98	0.45	0.24	1.40	0.85	0.63	0.26	1.33	0.02	0.36	0.66	0.58	7.81
Idaho City	1.45	3.06	3.18	1.75	1.48	0.75	0.30	1.83	T.	0.72	1.24	5.40	21.16
Idaho Falls	0.92	1.65	0.10	0.85	0.40	1.05	0.60	1.85	0.10	0.25	0.46	1.19	9.42
Irwin	0.82	3.02	0.34	1.54	0.89	1.11	1.95	1.74	1.10	0.53	0.98	1.76	15.78
Jerome	1.31	0.60	0.66	1.64	0.74	0.87	0.05	1.07	0.01	0.34	0.34	0.61	7.64
Juniper Buttes	.....	.....	.....	.....	.....	.....	.....	2.54	0.00	.....	.....	1.65	.....
Kamiah	1.01	1.21	2.00	3.03	2.42	0.96	0.31	0.64	0.44	1.00	0.45	2.80	16.27
Kellogg	2.17	1.90	1.87	2.18	0.67	0.34	0.74	1.91	1.13	1.92	0.73	4.39	19.95
Kirkham	1.23	1.90	3.36	1.32	2.09	1.59	.....	.....	.....	0.37	.....	.....	.....
Kooskia	0.83	0.90	2.85	3.40	2.65	0.56	0.25	1.17	0.46	0.89	1.09	2.52	17.57
Lapwai	0.71	1.64	1.50	2.38	0.96	1.58	0.00	1.17	0.37	.....	.....	.....	.....
Lemhi	.....	.....	.....	3.04	1.66	1.17	1.19	2.41	0.13	0.20	.....	0.69	.....
Lewiston	0.56	1.10	0.80	1.03	0.60	0.96	0.06	1.21	0.51	0.86	0.97	1.33	9.99
Lifton	0.49	1.99	0.84	1.24	0.20	0.27	0.66	1.35	0.18	0.73	0.58	0.89	9.42
Little Camas	1.97	2.95	2.95	1.27	0.70	1.29	0.20	2.16	T.	0.59	0.83	3.27	18.18
Long Gulch	.....	.....	.....	1.35	0.79	1.15	0.50	1.33	0.00	1.23	1.57	.....	.....
Loon Creek	0.63	3.05	1.82	1.04	.....	0.30	0.36	2.84	.....	T.	0.64	3.25	.....
McCall	2.56	3.80	4.55	2.45	1.57	0.36	0.99	1.00	0.18	0.44	0.66	6.39	24.39
Mackay	0.88	1.43	1.18	1.86	0.58	1.39	0.05	1.62	0.08	0.07	0.77	1.72	11.63
Malad	2.08	2.17	0.83	1.63	1.26	0.82	1.69	1.64	0.09	0.43	1.07	1.08	14.79
Meridian	0.79	0.95	1.64	1.18	0.98	0.40	0.12	0.76	0.01	0.31	0.55	1.60	9.29
Monteview	1.18	0.38	0.96	0.45	0.80	0.48	0.66	1.92	T.	0.25	0.65	0.75	8.48
Montpelier	0.90	3.74	0.73	2.01	1.00	0.43	1.13	3.13	0.25	1.28	0.50	1.00	16.10
Moscow	2.04	1.49	2.50	1.47	0.47	0.22	T.	1.52	0.75	1.00	1.32	2.91	15.69
Mountainhome	0.71	0.87	2.00	1.44	0.71	0.86	0.07	1.09	0.00	1.08	0.92	3.01	12.76
Mud Lake	0.79	0.39	1.00	0.68	1.18	0.62	.....	2.02	0.00	0.35	0.55	.....	.....

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Idaho—Continued.													
Murphy	0.45	0.50	.....	.....	.....	.....	.....	.....	.....	.....	0.25	0.76	.....
Murtaugh	.....	0.92	0.59	0.76	0.98	0.83	0.18	2.39	0.00	0.12	.....	.....	.....
Musselshell	4.11	3.47	5.49	2.27	3.23	1.20	0.45	0.89	0.65	1.88	1.72	5.75	31.11
New Meadows	1.48	2.87	3.98	1.74	1.61	0.51	0.71	1.29	0.24	0.41	0.19	6.26	21.29
Nezperce	1.10	0.80	1.80	1.56	1.34	0.68	0.19	1.17	0.68	1.18	0.80	1.96	13.26
Oakley	1.20	0.81	0.54	1.68	1.33	1.39	0.76	1.76	0.00	0.38	0.88	0.88	11.61
Obsidian	1.17	2.44	2.13	1.51	1.17	1.97	0.12	3.38	0.07	0.25	0.57	3.19	17.97
Orofino	1.40	1.92	1.59	2.36	1.32	0.29	0.04	1.06	1.21	1.07	1.62	3.05	16.93
Oxford Ranger Station	.....	.....	.....	.....	.....	0.92	0.93	1.14	1.37	.....	.....	.....	.....
Parma	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.65	1.49	.....
Payette	1.13	1.02	1.33	1.12	1.21	0.55	0.11	0.34	0.00	0.08	0.43	3.02	10.34
Peace Valley	.....	.....	.....	.....	.....	.....	.....	1.54	.....	.....	.....	.....	.....
Pete King Ranger Station	.....	.....	.....	.....	.....	0.68	0.29	1.41	.....	.....	.....	.....	.....
Pine	2.11	3.74	3.27	1.43	1.08	0.82	0.15	1.57	0.00	0.57	1.06	5.67	21.47
Pleasant Valley	0.38	0.60	1.46	0.73	1.15	0.52	0.23	1.21	T.	0.33	0.45	1.37	8.43
Pocatello	1.54	1.94	0.69	1.81	1.84	0.82	0.17	2.20	0.07	0.76	0.49	1.82	14.15
Porthill	0.96	1.02	1.21	1.29	0.83	0.38	0.59	0.33	1.20	1.98	0.36	3.54	13.69
Potlatch	2.48	1.97	2.32	2.20	0.29	0.75	T.	1.82	0.70	1.78	1.53	4.10	19.94
Preston	1.89	3.16	0.98	3.20	1.13	0.51	1.36	1.28	0.13	0.41	0.94	2.33	17.32
Prichard	.....	.....	.....	2.63	1.39	.....	.....	.....	0.83	2.96	2.40	.....	.....
Priest River Experiment Station	2.00	1.66	2.35	3.59	1.07	0.14	0.20	0.68	2.04	3.85	0.59	7.54	25.71
Pyle Creek	1.51	2.49	3.55	1.69	1.52	0.40	0.26	1.13	T.	0.40	1.52	6.18	20.65
Rice	3.57	3.55	1.26	1.80	1.82	0.95	2.09	1.79	0.26	0.58	1.00	2.71	21.38
Richfield	1.33	0.72	0.94	1.33	0.34	0.92	0.76	0.89	0.00	0.59	0.54	1.29	9.65
Rupert	1.83	1.07	0.45	1.56	0.82	1.84	0.10	2.80	0.00	0.58	0.36	0.44	11.85
St. Maries	2.41	1.86	2.39	2.60	0.84	0.33	T.	1.00	0.82	2.16	1.03	4.53	19.97
St. Michael's Monastery	1.17	2.03	2.04	3.34	2.37	1.52	0.50	1.86	1.47	0.79	1.28	2.86	21.28
Salmon	.....	.....	.....	.....	0.83	0.51	1.00	2.70	0.03	0.03	0.21	0.61	.....
Sandpoint	1.62	1.82	2.85	3.52	0.68	0.21	0.71	1.01	1.75	4.58	0.71	8.06	27.52
Sheep Hill	0.86	3.42	3.42	1.72	0.98	0.90	0.24	1.57	0.02	0.47	0.90	5.69	20.19
Shoshone	1.19	0.66	0.62	1.54	0.70	0.69	T.	2.99	0.00	0.50	0.54	0.72	10.15
Shoshone Ranger Station	.....	.....	.....	.....	1.55	1.44	1.42	1.64	0.00	0.58	.....	.....	.....
Soldier Creek	1.87	2.11	3.74	1.30	0.70	1.05	T.	1.66	T.	0.45	1.06	6.42	20.36
South Fork Ranger Station	.....	.....	.....	.....	.....	.....	0.34	2.45	0.02	.....	.....	.....	.....
Spencer	2.29	1.29	2.08	1.05	2.02	0.46	0.93	2.77	0.03	0.34	1.25	2.92	17.43
Springfield	1.44	0.74	0.30	1.76	1.27	0.66	0.38	1.82	0.00	0.27	0.52	1.02	10.18
Stanley	2.09	2.75	2.63	1.11	1.88	2.32	0.22	2.48	0.46	0.23	0.77	2.15	19.09
Sublett Ranger Station	.....	.....	.....	.....	.....	.....	.....	1.91	0.05	0.75	.....	.....	.....
Sugar	2.41	1.20	0.46	0.64	0.90	0.46	0.84	0.97	0.16	0.30	0.69	1.00	10.03
Sunset Lookout	.....	.....	.....	.....	.....	.....	0.68	1.38	.....	.....	.....	.....	.....
Sunnyside	.....	.....	.....	.....	0.96	1.40	.....	.....	.....	.....	0.66	1.59	.....
Tripod Mountain	1.61	1.94	3.17	2.38	2.03	0.85	0.15	0.76	T.	0.46	0.76	4.62	18.73
Twin Falls	1.43	0.88	0.91	1.20	1.35	0.84	0.42	0.88	0.01	0.17	0.67	0.65	9.41
Wallace	1.76	2.82	3.35	2.39	2.21	0.28	0.40	1.23	1.00	2.69	2.27	7.79	28.19
Warren	.....	.....	.....	.....	.....	.....	.....	1.88	0.33	0.21	0.40	3.83	.....
Weiser	1.08	1.45	1.49	1.58	1.15	0.43	0.38	0.37	0.00	0.18	0.64	3.05	11.80
Wendell	1.43	0.32	1.00	2.25	0.79	0.64	0.03	0.63	0.00	0.23	0.60	0.33	8.34
Wrensted Ranch	1.86	2.21	0.75	2.63	2.19	1.62	0.30	2.75	0.32	0.59	0.97	2.00	18.19
Illinois.													
Aledo	1.11	0.96	3.78	2.62	3.78	1.33	4.90	0.66	2.30	0.67	4.38	0.95	27.44
Alexander	1.60	0.84	6.28	6.44	4.06	1.21	2.90	0.43	1.24	1.77	2.83	1.18	30.78
Anna	1.53	1.78	10.32	4.71	3.05	1.84	7.47	2.92	2.83	3.23	2.70	3.27	45.65
Antioch	1.01	1.88	3.40	2.97	3.02	0.12	.....	0.35	1.80	.....	.....	.....	.....
Astoria	1.59	1.73	6.30	4.11	2.73	0.77	5.02	2.45	2.06	0.68	4.22	1.50	33.16
Aurora	1.42	0.44	4.44	2.10	4.47	0.48	3.55	1.52	4.12	3.18	2.72	1.10	29.54
Beardstown	1.35	2.42	5.64	4.67	3.31	0.77	2.99	2.32	2.09	0.76	3.20	0.88	30.40
Benton	1.15	1.98	9.64	4.53	1.86	1.09	1.39	1.96	0.28	2.88	1.77	7.76	36.29
Bloomington	1.59	1.32	6.54	4.82	3.98	2.63	2.88	2.93	0.98	2.52	3.53	0.76	34.48
Cairo	1.48	2.81	8.40	3.35	2.65	1.44	4.49	0.98	1.41	2.54	1.98	3.27	34.80
Carbondale	1.46	3.04	8.59	4.42	3.25	1.98	2.05	2.47	1.73	3.88	2.07	3.86	38.80
Carlinville	1.20	1.06	8.72	9.81	1.68	1.42	3.06	1.68	0.86	1.37	2.78	3.12	36.76
Casey	1.03	1.00	8.60	9.30	3.62	2.12	2.24	1.49	0.90	1.95	.....	4.46	.....
Charleston	1.06	0.98	8.86	8.63	2.35	2.35	3.60	2.13	0.51	3.55	2.15	4.17	40.34
Chester	1.11	1.55	7.33	5.00	2.64	3.76	1.64	1.39	1.20	2.75	2.32	4.88	35.57
Chicago	1.16	0.74	5.58	3.70	3.18	0.12	4.00	1.45	4.37	3.40	2.66	1.21	31.57
Chicago University	1.07	0.50	4.86	3.51	4.71	0.08	3.21	1.02	3.23	3.28	2.28	1.00	28.75
Clinton	1.83	1.30	7.76	5.81	4.88	2.68	3.55	3.96	0.54	3.61	3.12	.....	.....
Danville	1.85	1.55	7.63	8.11	3.02	3.13	.....	.....	.....	2.65	.....	2.81	.....
Decatur	1.33	0.72	9.82	7.40	2.42	1.25	3.53	1.78	1.04	2.47	3.21	2.87	37.84
Dixon	1.08	1.38	2.89	3.66	3.28	0.54	7.87	0.70	2.59	0.47	2.28	.....	.....
Du Quoin	1.37	1.81	8.88	3.73	2.45	1.02	1.37	1.44	0.57	3.46	2.37	6.45	34.90
Dwight	1.38	0.97	5.27	4.67	5.52	0.89	2.55	1.80	1.62	3.07	2.01	1.39	31.04
Edwardsville	0.60	1.01	6.67	7.63	2.12	1.71	2.05	1.61	2.50	1.24	1.92	5.51	34.57
Effingham	1.21	1.17	8.80	5.91	2.65	2.21	4.56	2.85	0.46	3.02	2.11	4.01	41.96
Elgin	1.11	0.83	.....	3.56	7.34	0.24	2.92	0.86	3.93	2.01	2.57	1.21	.....
Fairfield	1.13	1.83	9.08	4.94	2.76	3.95	1.66	1.25	0.46	3.07	2.02	5.71	37.86
Fairview	1.17	2.04	4.27	3.12	4.53	1.71	4.45	1.02	3.27	1.06	4.08	1.04	31.76
Flora	1.01	1.58	6.86	5.85	2.76	4.11	3.73	4.17	1.40	5.76	2.04	5.24	44.51
Freeport	0.80	1.55	2.37	4.16	3.84	0.81	8.00	0.74	3.46	0.60	2.93	.....	.....
Galva	0.89	1.16	3.51	3.47	4.49	0.48	4.18	0.94	3.06	0.59	2.47	0.73	25.97
Golden	1.29	1.42	5.20	4.16	2.74	0.45	3.28	2.11	4.08	1.38	4.37	0.63	31.11
Grafton	1.12	0.84	6.12	8.79	2.07	3.56	2.52	1.55	1.80	1.36	2.86	3.36	35.95
Greenville	0.77	0.95	6.16	7.55	2.38	2.25	3.27	1.09	0.44	3.27	1.98	5.04	35.15
Griggsville	1.45	0.69	4.38	7.08	3.36	0.61	2.06	1.64	2.39	1.11	4.76	1.13	30.66
Harrisburg	1.11	2.59	10.41	4.56	3.65	3.74	4.90	1.50	2.20	4.76	1.82	5.31	46.55
Havana	1.89	1.46	5.89	4.07	3.00	0.85	3.91	2.20	1.65	0.77	4.48	0.98	31.15
Henry	1.04	1.03	4.26	2.50	4.16	1.41	3.83	1.64	3.14	0.82	2.51	1.36	27.70
Hillsboro	1.18	0.97	8.21	6.37	2.36	1.78	3.35	1.42	1.72	2.66	2.41	3.65	35.98
Hoopeston	.....	1.85	6.23	5.68	3.10	0.88	3.95	1.19	.....	.....	2.74	1.74	.....
Joliet	1.56	0.68	5.21	3.74	3.80	0.59	3.22	.....	.....	2.41	2.40	0.69	.....
Kankakee	1.55	1.05	5.34	3.89	5.63	0.93	2.50	1.49	1.84	3.53	2.15	1.34	31.24
La Harpe	.....	2.16	3.67	3.64	4.96	1.32	7.02	3.14	3.84	0.98	4.71	0.79	.....
La Salle	1.06	0.57	3.49	3.04	5.14	0.59	1.20	2.95	3.51	1.24	2.07	0.94	25.80
Lincoln	1.49	1.70	6.22	5.88	4.88	1.15	4.62	2.37	1.55	2.20	3.34	1.11	36.51

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Illinois—Continued.													
McLeansboro	1.84	1.96	9.53	5.31	2.77	3.37	2.36	2.14	0.71	3.15	1.79	7.02	41.95
Macomb	0.94	1.87	4.06	4.50	3.53	1.91	6.36	2.24	3.91	1.19	4.65	0.45	35.61
Marengo	1.07	1.75	3.43	1.87	2.47	0.19	5.95	0.77	2.83	1.29	2.66	1.26	25.54
Mascoutah	0.76	1.51	5.17	7.00	5.04	2.46	3.41	1.48	0.76	3.71	.....	3.62	.....
Minonk	1.15	1.35	4.36	2.87	4.24	1.54	4.11	2.21	2.49	2.32	2.87	0.91	30.42
Monmouth	0.93	1.98	3.79	2.88	5.90	1.22	4.79	0.67	2.79	0.60	4.27	0.60	30.51
Morris	1.27	0.81	4.43	3.34	3.47	0.48	3.72	0.92	3.22	2.47	2.63	1.37	28.13
Morrison	1.00	2.00	4.04	2.57	6.69	0.67	4.91	2.57	1.79	0.37	2.73	0.73	30.07
Morrisonville	.....	0.81	9.78	8.48	3.68	0.90	1.95	1.05	1.29	2.20	2.69	2.64	.....
Mount Carmel	1.89	2.01	10.47	5.27	5.07	1.14	1.93	1.49	2.21	2.39	1.80	6.28	41.95
Mount Carroll	0.98	1.52	2.17	2.89	5.00	0.33	6.00	1.56	2.72	0.13	2.73	1.21	27.24
Mount Vernon	1.11	2.02	7.87	4.80	1.14	5.00	4.58	1.81	0.64	4.90	2.00	5.16	41.03
Nashville	1.11	1.45	6.08	5.36	2.58	1.88	3.74	3.52	1.16	4.99	2.05	4.81	38.73
New Burnside	1.20	2.80	11.79	5.03	3.90	3.02	3.33	2.01	0.77	3.31	2.18	4.82	44.16
Olney	1.14	1.82	7.93	5.85	2.63	1.03	1.56	2.09	0.52	2.97	2.32	5.36	35.22
Oregon	1.05	1.77	3.95	3.46	5.29	0.30	7.21	0.99	2.41	0.59	2.55	1.25	30.82
Ottawa	.....	0.92	2.91	2.57	6.39	0.43	3.21	1.63	3.37	2.08	2.01	1.32	.....
Palestine	1.09	1.67	7.77	5.75	8.77	2.65	2.47	2.98	0.75	1.94	1.60	4.72	42.16
Pana	1.33	1.09	7.18	8.32	3.45	1.55	4.00	2.07	0.55	2.45	2.49	3.72	38.20
Paris	1.02	1.02	9.62	9.93	1.95	.....	4.47	1.38	.....	.....	.....	.....	.....
Paw Paw	1.29	0.72	3.48	1.15	4.39	0.41	4.35	0.35	3.56	1.48	2.00	1.21	24.39
Pearl	1.80	0.77	6.54	8.36	1.61	0.55	1.82	0.98	1.83	2.26	3.10	1.30	30.92
Peoria	1.69	1.98	5.09	3.62	4.60	0.99	3.06	0.72	2.71	2.02	3.67	1.38	31.53
Pontiac	1.99	1.35	5.83	4.10	3.43	0.98	2.47	1.73	1.32	2.84	3.08	1.07	30.28
Quincy	1.32	1.41	4.49	3.75	2.92	0.63	3.97	2.68	4.24	1.17	5.88	0.51	32.97
Roberts	1.28	1.10	5.77	4.74	4.59	0.85	2.65	1.04	1.01	4.17	3.23	.....	.....
Rockford	0.87	1.68	3.75	2.81	3.68	0.34	5.28	0.21	1.50	0.42	3.13	1.40	25.07
Rushville	1.70	1.39	7.26	4.68	3.10	0.73	2.70	1.71	1.81	0.67	4.87	1.29	31.91
Salem	1.11	1.63	7.94	6.71	1.63	1.96	1.95	1.99	0.48	6.09	1.89	5.08	38.46
Shawneetown	1.01	2.93	9.80	4.38	4.56	2.48	4.22	1.79	3.69	4.52	1.93	4.96	46.27
Sparta	1.53	1.40	5.95	5.97	2.54	2.49	2.56	1.42	1.36	3.97	1.85	6.51	37.54
Springfield	1.83	0.86	6.81	5.20	4.64	1.19	2.56	0.55	1.00	1.95	2.53	1.59	30.71
Sycamore	1.23	0.78	3.98	2.24	3.78	0.32	6.21	0.73	3.47	1.73	2.42	0.99	27.88
Tiskilwa	1.18	0.71	4.41	2.67	2.59	1.06	3.52	1.62	3.26	0.49	3.14	1.37	26.02
Tuscola	1.44	0.82	8.74	7.25	3.31	2.05	1.90	2.24	0.89	2.41	2.15	2.07	35.18
Urbana	1.23	1.60	8.35	7.64	3.70	1.03	2.51	2.82	0.57	3.17	2.30	1.81	36.73
Walnut	1.75	0.65	4.07	2.52	3.77	0.71	5.10	2.08	2.79	0.66	2.35	0.79	27.24
Warsaw	0.93	1.16	3.12	2.68	2.18	0.82	7.97	2.33	3.14	0.68	3.47	0.59	29.07
Waterloo	0.85	1.57	5.89	7.96	2.26	2.08	2.97	1.30	1.02	3.43	2.13	4.81	36.27
Watseka	1.69	0.97	5.73	4.48	2.32	1.78	4.47	1.95	1.55	3.30	2.83	1.28	32.35
White Hall	2.30	0.84	7.97	8.28	2.57	1.05	1.92	1.27	1.20	1.93	3.02	1.75	34.10
Windsor	1.31	1.05	9.05	8.09	3.94	3.83	3.36	1.09	0.51	1.89	2.89	2.93	39.94
Indiana.													
Albion	2.09	0.67	5.11	5.16	4.94	2.39	1.86	1.18	1.29	3.60	1.19	2.50	31.98
Anderson	1.37	1.22	6.33	9.80	3.98	0.75	3.07	1.94	1.37	3.81	2.87	3.31	39.82
Angola	1.73	1.05	5.16	5.32	7.16	2.85	2.55	2.22	1.93	3.89	1.44	2.02	37.32
Auburn	2.70	0.84	5.27	4.37	8.19	2.63	1.80	0.65	2.83	.....	.....	.....	.....
Bedford	1.45	2.31	9.69	6.84	5.33	2.87	3.44	1.10	1.79	2.71	3.33	7.09	47.95
Berne	1.19	1.39	5.33	4.96	5.85	3.04	4.69	1.17	2.13	2.32	2.02	3.90	37.99
Bloomington	1.51	1.71	9.61	7.74	3.30	2.14	2.11	1.25	2.10	1.99	2.30	5.97	41.73
Bluffton	1.51	1.39	6.06	4.50	4.16	1.93	5.17	0.65	2.41	2.47	1.75	4.06	36.05
Butlerville	2.13	2.42	7.23	7.08	4.10	1.37	2.26	2.71	1.48	1.54	2.28	5.71	40.31
Cambridge City	1.32	2.31	6.53	8.64	3.18	3.17	4.33	4.04	3.10	3.68	2.62	5.09	47.01
Collegeville	1.89	0.49	6.47	5.28	2.21	2.34	2.00	1.72	0.86	3.20	2.03	2.28	30.77
Columbia City	1.58	0.96	6.02	3.63	3.18	0.99	2.86	0.76	1.25	3.24	1.76	2.90	29.13
Columbus	1.31	2.06	8.60	7.23	4.16	0.82	1.92	4.14	1.82	1.99	3.28	6.53	43.86
Connersville	0.76	1.00	4.84	6.16	3.15	1.52	3.04	4.90	3.97	2.91	2.48	3.52	38.25
Crawfordsville	0.86	1.70	.....	.....	3.53	0.99	1.35	1.69	0.55	4.74	1.45	3.66	.....
Decker	1.86	1.97	10.57	3.74	2.96	2.09	2.60	2.15	1.57	3.29	2.33	6.52	41.65
Delphi	2.04	1.70	6.46	5.08	2.49	2.69	3.47	2.87	2.03	3.74	1.95	2.96	37.48
Elliston	1.11	1.77	8.31	6.76	4.68	2.22	2.52	1.92	1.59	2.75	2.48	4.84	40.95
Evansville	1.47	2.38	8.20	4.07	2.69	2.65	6.39	3.08	2.16	2.12	1.64	5.94	42.79
Farmersburg	0.90	0.85	8.45	7.08	3.68	2.52	2.19	1.46	1.94	3.47	1.19	3.74	37.47
Farmland	0.97	2.07	6.97	9.17	3.60	2.11	3.93	2.97	2.77	2.10	1.48	3.57	41.71
Forest Reserve	1.77	2.22	7.49	5.84	2.44	1.49	4.40	3.16	2.97	1.89	2.71	5.56	41.94
Fort Wayne	1.72	0.87	6.03	3.99	3.84	1.85	4.08	1.56	1.70	2.62	1.72	3.12	33.10
Frankfort	1.04	2.40	7.20	6.32	3.06	1.18	4.41	2.05	1.25	4.28	2.51	3.37	39.08
Goshen	1.56	0.68	3.22	5.34	5.74	1.88	2.35	1.25	1.86	2.45	2.14	1.46	29.93
Greencastle	2.06	1.68	10.23	11.37	3.82	1.64	4.91	3.11	1.90	2.05	2.19	6.02	50.98
Greenfield	1.60	2.56	6.89	10.48	2.56	1.88	3.93	5.28	1.40	2.27	2.93	3.24	45.02
Greensburg	1.04	1.94	6.22	5.74	2.97	0.60	3.13	2.60	1.27	1.67	1.92	6.65	35.75
Hickory Hill	1.25	1.56	8.74	8.61	3.28	1.23	3.51	2.18	1.56	1.67	2.40	4.73	33.92
Hobart	1.86	0.71	4.88	3.13	3.11	0.13	2.30	1.45	2.72	5.03	1.97	1.43	28.72
Howe	2.48	.....	.....	.....	.....	1.60	1.35	1.97	1.28	3.60	2.42	1.58	.....
Huntingburg	2.18	3.00	8.52	5.19	4.26	2.66	5.14	2.43	1.34	2.80	3.38	10.17	51.12
Huntington	2.08	1.78	3.72	.....	3.12	2.89	3.37	.....	1.70	3.21	.....	1.49	.....
Indianapolis (Weather Bureau)	1.26	1.46	7.16	8.55	2.58	0.99	2.67	2.45	1.52	1.78	2.32	4.45	37.19
Indianapolis (Speedway)	0.95	1.24	7.39	10.49	2.48	0.86	4.87	1.64	1.57	2.07	2.38	2.22	38.16
Jeffersonville	1.53	2.86	6.88	5.03	2.26	4.18	9.05	2.02	1.30	2.54	2.07	5.49	45.21
Kokomo	2.14	1.13	8.48	4.52	1.52	0.07	0.80	0.93	1.42	3.27	3.05	2.47	29.80
La Fayette	1.69	1.36	5.84	5.50	2.84	1.58	3.10	2.07	1.31	2.76	1.91	2.66	32.62
Laporte	1.42	1.06	4.67	3.97	4.08	2.17	1.93	0.97	1.92	3.50	2.75	1.91	30.35
Madison	2.00	.....	.....	.....	.....	.....	3.10	2.89	3.03	.....	.....	2.96	.....
Marengo	2.36	2.61	7.89	6.43	4.95	3.23	5.32	1.61	1.15	1.82	2.55	6.74	46.66
Marion	1.15	1.89	5.20	5.13	3.47	1.15	2.80	1.81	2.15	2.95	1.28	3.84	32.82
Mauzy	1.57	2.07	7.39	7.00	2.75	0.75	5.38	4.28	2.09	2.20	2.64	5.65	44.06
Moores Hill	1.98	1.67	8.72	4.67	2.83	1.65	2.83	2.48	4.11	0.95	1.93	5.29	38.81
Mount Vernon	1.52	1.58	9.66	4.73	2.95	2.51	2.46	1.72	2.06	3.28	1.89	7.27	42.03
Muncie	1.61	1.32	6.33	9.10	4.55	1.68	2.45	2.55	2.18	3.60	2.35	4.84	42.56
Noblesville	2.04	1.42	6.51	10.82	2.84	0.83	2.95	1.41	2.12	3.67	3.57	4.98	44.16
Notre Dame	1.64	1.22	5.09	3.74	5.22	2.01	2.30	1.77	1.28	2.96	1.66	1.75	30.64
Paoli	2.47	1.94	7.27	3.92	3.49	2.84	5.34	0.53	1.98	1.58	2.55	6.93	40.84
Plymouth	1.84	0.74	4.09	3.51	3.83	3.13	3.36	1.04	1.00	3.99	2.00	1.81	30.34
Princeton	2.26	2.11	11.11	4.32	3.10	1.44	4.16	1.93	1.22	3.15	2.90	0.01	46.71
Richmond	1.51	2.41	5.00	6.67	3.98	3.03	6.02	3.44	4.21	3.46	2.31	4.15	46.19

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Indiana—Continued.													
Rockville	1.09	1.43	9.07	7.98	2.16	1.47	3.40	3.94	1.18	3.75	1.91	4.45	40.83
Rome	1.52	3.11	7.93	4.08	2.58	3.33	5.25	0.96	1.41	2.09	2.47	5.01	39.74
Royal Center	1.81	0.86	5.91	4.71	3.12	0.87	3.24	1.70	1.12	4.83	2.15	2.40	32.72
Salamonia	2.46	2.37	8.98	8.60	4.52	2.12	3.50	.....	.....	.....	.....	.....	.....
Salem	2.89	2.21	7.59	4.46	2.67	3.16	3.45	2.04	1.52	2.05	2.57	6.43	41.04
Scottsburg	1.90	1.54	5.62	4.40	2.46	1.50	5.13	2.39	1.85	2.46	2.46	5.10	36.81
Seymour	1.26	1.77	7.79	3.88	4.97	1.52	2.03	2.49	1.43	2.55	2.93	6.35	38.97
Shelbyville	1.38	1.85	8.54	7.30	2.17	0.80	5.33	3.36	1.18	2.13	2.86	4.01	40.91
Shoals	1.95	2.19	8.93	4.74	2.75	2.83	4.27	0.90	0.83	2.51	2.56	6.03	40.49
South Bend	1.50	0.53	4.02	3.51	5.39	3.35	2.50	0.99	0.47	2.87	1.78	1.39	28.30
Terre Haute	1.14	1.14	8.45	10.57	2.65	3.67	2.41	2.40	0.74	2.22	1.22	5.22	41.83
Valparaiso	2.43	1.19	5.71	3.85	2.68	0.63	2.84	1.20	2.46	4.80	2.90	1.88	32.57
Vedersburg	1.35	1.43	8.04	6.28	3.25	2.62	2.48	3.38	1.20	2.49	1.60	2.90	37.02
Vevay	1.87	2.00	5.15	3.80	2.49	2.50	4.85	2.16	3.18	1.04	1.41	4.31	34.76
Vincennes	1.35	2.21	9.47	5.91	6.46	3.01	5.72	1.58	0.88	3.79	2.15	6.13	48.66
Washington	1.65	2.03	10.81	4.32	4.79	4.07	2.69	2.19	1.81	2.00	2.41	6.34	45.11
Wheatfield	2.18	0.85	4.39	6.03	5.02	0.27	1.54	1.54	3.35	4.08	2.67	2.12	34.04
Whitestown	1.12	1.13	7.62	11.58	2.69	1.04	4.74	2.32	2.19	3.41	2.49	3.80	44.13
Whiting	1.64	0.77	5.62	3.89	4.95	0.45	3.66	1.36	3.68	3.90	2.76	1.28	33.96
Williams	1.49	2.02	7.38	5.43	3.63	3.08	4.70	0.48	1.29	1.19	1.64	5.23	37.56
Winamac	1.75	0.88	6.34	5.62	3.48	1.08	2.69	2.60	1.89	4.08	2.30	2.39	35.10
Winona Lake	2.32	1.58	6.14	4.79	2.88	1.55	2.57	1.41	1.32	3.24	2.13	1.81	31.74
Iowa.													
Afton	0.95	1.07	2.85	1.91	6.38	4.93	8.06	6.51	1.65	2.60	3.93	0.28	41.12
Albia	1.20	1.40	2.61	2.21	4.35	0.65	7.02	4.26	1.98	1.66	3.16	0.28	30.78
Algona	0.71	1.84	1.51	6.70	0.47	2.32	4.14	1.30	1.00	1.86	2.70	0.51	25.06
Allison	1.10	2.67	1.07	2.98	4.58	1.22	10.51	1.71	3.09	2.10	2.25	0.35	33.03
Alta	0.72	1.39	2.40	3.31	1.06	2.79	3.95	2.93	1.36	1.87	4.06	0.25	26.09
Alton	0.60	1.12	1.15	2.67	2.38	1.67	4.13	4.31	0.73	1.76	3.26	0.45	24.23
Ames	0.59	0.52	1.62	2.96	8.36	0.87	8.50	2.43	1.52	3.06	2.84	0.30	35.57
Atlantic	0.59	1.08	1.34	3.34	2.06	3.39	.....	9.80	1.85	1.56	4.29	0.11	.....
Audubon	0.80	1.37	1.01	3.20	1.96	1.83	5.66	7.08	2.59	1.43	2.63	0.16	29.72
Baxter	0.70	0.80	2.12	3.95	5.05	0.90	10.04	1.92	2.94	1.94	3.69	0.50	34.55
Belle Plaine	1.04	1.37	3.25	3.04	5.22	2.46	6.87	1.88	2.61	2.61	4.41	0.43	35.19
Belmond	1.08	2.75	1.27	2.54	2.76	0.61	5.40	1.74	1.98	2.29	2.37	0.52	25.31
Bonaparte	1.00	1.34	2.57	2.31	2.71	2.59	5.67	1.70	2.06	1.01	3.28	0.15	26.39
Boone	0.68	1.42	1.50	.....	6.76	1.20	8.78	4.05	2.06	1.92	2.53	0.25	.....
Britt	0.34	1.67	1.15	2.55	1.36	0.72	4.84	2.08	1.50	1.43	2.12	0.49	20.25
Burlington	1.33	2.50	3.31	2.81	6.17	0.69	5.14	1.05	2.14	0.68	3.31	0.64	29.77
Carroll	0.66	1.53	1.31	4.81	1.72	3.85	4.65	4.84	2.71	1.12	2.36	0.23	29.79
Cedar Rapids	0.49	1.43	1.73	3.30	5.08	0.49	5.70	1.08	1.99	0.96	4.32	0.35	26.92
Centerville	0.84	0.75	2.16	3.32	4.72	2.48	8.35	5.21	1.88	1.50	4.43	0.22	35.86
Chariton	0.85	1.65	3.73	1.73	5.95	1.74	7.46	4.16	2.22	2.07	4.47	0.20	36.23
Charles City	1.44	2.93	1.31	3.05	3.93	1.00	7.25	1.99	2.22	2.38	3.14	0.43	31.07
Cherokee	0.35	0.69	1.08	2.54	1.40	2.21	4.81	3.03	0.83	2.63	4.18	0.13	23.88
Clarinda	1.00	1.31	2.01	2.89	4.74	3.58	6.50	3.69	2.95	2.60	3.68	0.19	35.14
Clinton	1.02	1.29	3.36	3.00	4.23	0.93	4.27	1.61	2.40	0.13	3.09	0.81	26.14
Columbus Junction	1.12	1.56	2.24	3.01	4.25	1.37	6.73	1.14	1.45	0.17	3.83	0.52	27.29
Corning	0.84	1.55	2.14	2.26	4.62	7.19	8.93	4.66	3.19	0.90	2.90	0.15	39.33
Corydon	0.98	1.58	2.54	2.12	4.92	3.31	9.30	3.53	2.59	1.95	4.08	0.34	37.24
Creston	0.77	1.57	2.48	2.04	6.01	3.18	8.30	6.21	1.74	1.62	3.42	0.19	37.53
Cumberland	.....	.....	.....	2.59	2.31	4.42	5.76	7.69	1.66	1.01	2.67	T.	.....
Davenport	0.98	1.34	3.40	2.86	3.87	1.22	5.66	0.48	1.91	0.42	3.12	0.60	25.86
Decorah	1.15	3.92	1.39	3.19	3.87	1.85	3.60	1.39	2.17	2.11	4.26	0.40	29.30
Denison	0.40	1.12	1.12	4.40	1.03	1.48	4.96	4.06	1.86	0.81	3.84	0.18	25.26
Des Moines	0.85	0.64	2.25	2.84	6.87	1.63	7.13	6.63	3.00	3.41	2.54	0.25	38.04
Dubuque	1.16	1.44	1.65	2.89	4.79	1.20	6.01	1.99	3.40	0.72	4.41	0.41	30.07
Earlham	0.79	0.94	1.63	2.18	4.41	2.92	5.43	4.94	2.04	2.37	2.83	0.15	30.63
Estherville	0.86	1.10	0.93	2.52	1.85	2.85	4.64	1.69	0.53	3.05	4.30	0.31	24.63
Fairfield	1.16	1.55	1.83	2.63	3.15	1.41	7.20	2.74	.....	1.55	4.59	0.60	.....
Fayette	0.99	4.56	1.59	2.77	3.86	1.24	9.55	0.88	2.51	3.93	3.78	0.51	36.17
Forest City	0.96	2.27	1.23	2.83	1.83	0.35	3.49	3.45	1.50	1.62	2.88	0.36	22.77
Fort Dodge	.....	1.41	1.16	3.50	.....	1.71	9.32	2.17	2.19	1.46	2.01	0.29	.....
Glenwood	0.50	1.18	2.53	4.12	3.87	2.71	5.59	1.60	2.34	0.66	3.96	T.	29.06
Greenfield	0.76	0.66	0.76	3.69	.....	3.03	5.07	5.86	3.34	.....	2.81	.....	.....
Grinnell	.....	1.29	2.42	2.60	3.00	0.59	5.82	2.18	2.49	2.01	2.95	0.37	.....
Grundy Center	0.50	1.44	1.20	3.27	4.03	1.12	6.10	2.10	2.01	2.17	2.80	0.15	26.89
Guthrie Center	0.61	1.57	1.87	3.55	3.83	1.08	4.85	4.74	1.96	1.73	2.24	0.63	28.66
Harlan	0.40	.....	2.55	4.19	1.47	2.55	6.46	9.46	1.74	1.41	2.55	T.	.....
Humboldt	1.84	1.88	1.36	2.93	0.86	0.92	5.17	2.02	1.51	2.55	3.90	0.89	25.83
Independence	0.65	1.24	0.76	2.49	3.89	0.84	5.99	0.51	2.86	1.52	4.12	0.39	25.26
Indianola	0.33	0.71	3.32	1.97	7.22	1.09	7.30	4.96	2.26	2.70	4.10	0.30	36.26
Inwood	1.08	0.97	0.85	1.04	2.38	1.71	4.63	3.42	0.31	1.22	3.91	0.31	21.83
Iowa City	1.11	1.46	2.18	3.49	5.52	0.28	6.46	1.03	2.91	1.06	5.28	0.49	31.27
Iowa Falls	0.60	3.34	1.19	3.17	3.56	0.85	6.15	1.73	4.34	2.10	3.31	0.46	30.80
Jefferson	0.90	1.83	1.35	3.05	2.38	2.09	4.66	3.58	2.34	1.90	2.57	0.33	26.98
Keokuk	1.04	1.56	3.58	2.97	2.44	1.08	6.35	3.37	2.92	0.77	3.38	0.63	30.09
Keosauqua	0.95	1.31	2.01	2.68	2.45	1.71	6.89	1.80	2.58	0.97	4.53	0.35	28.23
Knoxville	1.07	1.55	3.32	2.70	4.14	1.80	8.12	5.79	2.61	2.27	3.86	0.36	37.57
Lacona	1.19	2.05	3.15	1.52	7.40	3.06	6.70	5.58	2.20	2.31	3.41	0.70	39.27
Lamoni	1.29	1.29	3.57	1.70	6.29	2.93	10.78	4.90	2.72	3.56	4.91	0.21	44.15
Lansing	.....	.....	.....	3.30	3.72	3.25	5.98	1.27	3.61	1.37	3.55	.....	.....
Le Claire	.....	.....	3.19	4.15	5.25	1.33	6.17	0.33	1.80	0.28	3.31	.....	.....
Le Mars	0.44	0.54	1.25	3.50	2.30	2.37	3.20	3.28	3.13	1.68	4.30	0.28	26.27
Lenox	0.71	1.62	2.18	1.84	3.92	4.18	7.72	5.28	1.97	1.34	3.32	0.35	34.43
Little Sioux	0.62	0.76	1.96	2.79	1.13	1.60	6.14	3.27	1.12	1.39	4.33	0.15	25.26
Logan	0.76	1.01	1.80	2.87	1.66	2.12	6.82	6.66	1.29	1.39	4.32	0.10	30.86
Manchester	0.56	2.18	3.19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Marshalltown	0.85	1.11	1.76	3.22	4.99	0.95	8.11	1.22	2.17	1.76	3.16	0.43	29.73
Mason City	2.05	1.64	1.61	2.67	3.65	0.30	4.97	2.38	3.18	1.68	2.98	0.80	27.91
Milford (near)	0.57	0.88	0.96	2.41	0.96	2.09	3.27	2.33	0.31	1.00	3.64	0.66	19.08
Monroe	1.14	1.34	2.71	2.65	5.53	1.09	9.08	3.69	1.61	2.89	4.15	0.11	35.99
Mount Ayr	1.01	1.32	3.52	1.77	4.75	4.05	11.72	5.34	2.66	3.27	4.60	0.19	44.20
Mount Pleasant	0.95	1.14	2.36	3.02	3.56	2.14	3.58	2.84	1.15	0.70	3.75	0.50	25.69
Muscatine	.....	.....	1.70	2.70	2.57	0.26	5.61	0.37	1.43	0.41	3.07	.....	.....

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Iowa—Continued.													
New Hampton	1.05	2.89	1.36	2.82	5.22	1.58	5.63	2.13	2.57	2.81	3.62	0.40	32.08
Nora Springs	1.14	3.76	1.84	4.62	4.92	0.74	7.21	2.43	3.07	1.65	3.73	0.90	36.01
Northwood	0.85	2.75	1.65	4.60	3.43	1.71	3.13	2.53	1.91	1.74	2.85	0.48	27.63
Oakland	0.94	0.60	1.90	3.87	2.28	2.15	8.13	3.28	1.77	2.64	2.34	0.05	29.95
Olin	1.50	1.00	1.30	3.70	2.21	.....	5.50	0.88	2.45	1.30	4.92	0.35	.....
Onawa	.....	.....	.....	.....	.....	.....	7.09	1.72	1.23	1.35	4.53	.....	.....
Oskaloosa	1.22	1.48	2.22	2.25	4.57	1.38	8.32	3.08	2.21	2.13	3.47	0.45	32.78
Ottumwa	0.77	1.84	3.30	2.20	4.21	1.98	7.32	3.10	1.14	2.28	3.05	.....	.....
Pella	0.82	1.05	2.39	2.42	4.03	1.57	9.59	2.50	2.12	2.56	3.27	0.43	32.75
Perry	0.65	0.96	1.69	3.17	6.11	1.81	6.53	3.21	1.78	1.24	1.96	0.22	29.33
Pocahontas	1.04	1.67	1.71	4.52	1.67	3.03	6.10	2.40	1.51	2.18	3.27	0.45	29.55
Postville	0.32	3.89	1.44	2.98	3.36	1.78	4.79	1.84	2.27	1.38	4.09	0.50	28.64
Rock Rapids	0.77	1.04	1.23	2.38	3.49	1.55	5.04	1.95	0.72	1.53	3.54	0.33	23.57
Rockwell City	2.30	.....	.....	.....	.....	1.32	8.98	2.80	1.77	2.05	2.64	0.31	.....
Sac City	1.05	2.05	.....	.....	1.21	1.34	4.19	3.17	2.13	2.56	3.68	0.10	.....
Sanborn	0.50	2.51	1.17	3.50	1.89	1.89	3.59	3.41	0.90	2.65	4.22	0.50	26.73
Sigourney	1.38	1.55	2.88	2.08	2.93	1.52	5.40	1.33	1.75	2.35	4.06	0.54	27.77
Sioux Center	1.00	1.87	1.29	2.96	2.29	1.72	5.18	3.29	0.79	2.30	3.40	0.52	26.61
Sioux City	1.36	0.58	1.69	3.08	2.23	2.03	5.97	2.92	0.49	1.11	4.41	0.07	25.94
Spencer	1.10	0.40	0.76	4.17	1.23	1.32	4.95	5.55	0.96	2.15	4.15	0.15	26.89
Stockport	0.88	2.07	2.59	2.21	2.99	2.03	7.03	2.62	1.57	0.85	4.27	0.69	29.80
Storm Lake	0.40	1.18	2.69	3.18	0.95	3.06	5.08	2.79	1.17	1.27	4.04	0.19	26.00
Thurman	0.56	1.76	2.99	4.95	3.31	3.00	5.57	1.18	2.48	0.94	4.29	T.	31.03
Tipton	1.60	1.50	1.65	2.93	4.93	0.69	4.78	1.10	2.33	0.43	4.32	0.54	26.80
Toledo	0.65	1.29	2.81	4.41	4.03	1.52	6.50	1.16	3.47	2.44	3.30	0.27	31.85
Van Meter	.....	.....	2.39	3.27	4.69	1.76	5.61	4.99	1.70	1.64	2.93	.....	.....
Washington	1.11	1.79	2.24	3.19	3.31	1.24	6.46	1.34	1.09	1.34	4.96	0.50	28.57
Washta	0.80	0.76	1.75	4.15	2.00	2.49	5.17	2.90	2.80	2.16	4.41	0.15	29.54
Waterloo	0.47	2.95	1.60	3.53	5.53	0.66	6.44	1.41	2.52	2.55	2.69	0.28	30.63
Waukee	0.85	0.70	2.17	4.70	5.95	1.27	7.07	5.57	1.88	1.99	2.94	0.24	35.33
Waverly	0.84	1.97	.....	3.31	3.45	0.97	7.98	1.82	3.04	2.42	3.41	0.31	.....
Webster City	.....	1.97	2.20	3.44	2.34	1.01	9.05	1.99	2.48	2.19	2.30	0.20	.....
Wescott	.....	.....	.....	3.45	4.03	0.34	5.26	2.64	3.49	0.64	3.10	0.97	.....
West Bend	0.40	1.18	1.32	4.05	0.80	1.98	5.59	2.12	1.12	1.67	3.14	0.31	23.68
Williamsburg	1.22	1.39	2.78	2.61	3.44	1.10	8.97	0.92	2.79	3.72	4.93	0.44	34.31
Winterset	0.73	1.40	2.78	2.65	4.84	0.96	8.10	5.81	1.70	2.86	3.00	0.21	35.04
Kansas.													
Abilene	0.09	0.64	3.06	4.24	2.36	0.38	3.56	0.47	1.94	2.37	5.53	0.06	24.70
Alden	0.03	1.17	4.68	5.10	4.91	2.65	6.74	0.53	2.18	1.95	3.40	T.	33.34
Alton (near)	0.03	0.65	1.17	4.07	4.22	1.81	3.18	0.38	1.07	0.86	0.96	T.	18.40
Anthony	1.22	0.84	4.13	3.89	5.71	1.16	7.74	0.80	1.95	1.46	4.26	T.	33.16
Arkansas City	1.00	1.32	3.25	7.71	5.91	5.57	7.87	2.74	2.55	3.68	3.99	0.16	45.75
Ashland	0.76	0.96	3.77	0.92	2.96	3.27	1.26	2.03	2.78	0.38	1.05	T.	20.14
Atchison	0.31	1.51	4.86	4.18	8.29	1.42	4.99	2.22	3.40	1.59	5.97	0.15	38.89
Atwood	0.19	0.24	1.70	5.36	2.45	0.92	4.02	2.76	T.	T.	1.90	0.03	19.57
Bazaar	0.40	1.09	4.95	6.42	2.91	1.18	4.41	1.25	3.96	1.28	4.13	T.	31.98
Beaver	.....	.....	.....	.....	.....	1.98	4.01	1.41	1.48	1.48	1.24	T.	.....
Beloit	0.39	0.77	0.97	4.42	3.38	0.90	3.98	0.39	0.75	2.26	1.80	T.	20.01
Bird City (near)	0.06	0.07	0.35	3.94	2.39	2.31	2.76	2.66	T.	0.05	1.40	0.05	16.04
Blue Rapids	0.54	1.02	3.14	3.78	2.92	2.55	6.55	0.38	1.37	1.60	3.90	0.09	27.84
Bucklin	0.70	1.35	5.52	2.93	3.31	2.61	2.86	1.05	1.53	0.33	0.90	T.	23.09
Burlington	0.64	1.28	12.40	8.82	2.72	2.08	4.02	3.17	2.25	0.63	2.20	0.12	40.33
Burr Oak (near)	0.23	0.47	1.81	3.66	4.58	0.33	3.61	0.44	0.82	1.63	1.23	T.	18.81
Carbondale	.....	.....	.....	.....	5.30	2.24	7.55	0.42	6.33	1.52	3.03	0.08	.....
Cawker City	0.16	0.71	1.35	3.89	5.17	1.20	5.76	0.67	0.83	2.22	1.42	0.06	23.44
Centralia	0.60	1.40	3.87	3.97	4.22	2.35	4.46	.....	2.54	1.68	.....	T.	.....
Chanute	1.04	0.90	7.12	9.08	4.10	6.03	7.28	2.21	2.58	1.97	2.93	0.22	45.46
Chapman	0.18	1.30	4.35	4.74	3.20	0.83	6.42	0.83	2.65	2.71	5.88	0.00	33.09
Cimarron	0.24	1.05	1.40	2.67	2.81	0.65	1.32	2.93	0.51	T.	1.28	T.	14.86
Clay Center	0.22	1.30	4.39	3.37	3.94	1.98	4.12	1.88	2.42	1.82	5.03	0.10	30.57
Clyde	0.46	1.97	3.19	2.70	2.40	1.62	8.91	1.63	1.02	2.22	3.45	0.08	29.65
Colby	0.11	0.25	1.85	5.40	2.38	1.64	2.73	1.38	0.27	0.65	2.88	T.	18.94
Coldwater	0.86	1.61	4.55	3.13	3.65	1.21	3.30	1.22	4.13	0.63	2.26	T.	26.55
Columbus	0.64	2.21	8.11	11.55	3.11	2.27	6.74	1.95	2.23	2.16	3.97	1.17	46.11
Concordia	0.38	1.12	2.59	2.33	3.54	2.10	5.82	0.88	1.35	1.14	2.05	T.	23.30
Council Grove	0.42	2.90	4.57	5.48	2.53	1.40	9.68	1.06	3.18	1.47	5.21	0.10	38.00
Dalton	0.88	1.16	4.95	5.33	7.97	0.99	12.52	2.23	.....	.....	.....	.....	.....
Deerfield (near)	0.05	1.03	1.44	3.63	2.13	1.18	2.19	1.83	0.05	0.05	0.52	T.	14.10
Dodge City	0.45	1.73	3.76	4.24	2.77	1.37	2.86	3.19	1.84	0.45	0.95	T.	23.61
Dresden	T.	0.30	2.47	4.02	7.13	1.03	2.68	1.17	0.42	0.05	1.34	T.	20.61
El Dorado	0.49	1.00	4.50	6.82	6.31	1.55	5.38	0.61	3.75	2.13	4.34	0.04	36.92
Elkhart	0.30	1.40	1.75	1.84	0.90	2.81	1.62	1.37	1.17	T.	0.85	0.05	14.06
Ellinwood	T.	1.75	5.19	4.48	5.27	2.00	3.85	0.63	2.38	1.93	3.32	T.	30.60
Ellsworth	0.12	1.68	4.45	5.22	3.82	5.48	4.35	0.34	0.86	2.86	3.79	0.00	32.97
Emmett	0.44	1.42	4.53	5.23	3.80	5.96	8.73	0.26	2.50	3.29	5.42	0.34	41.92
Emporia	0.55	0.93	0.43	7.63	7.25	2.50	8.45	1.69	3.94	1.80	2.87	0.07	44.11
Eskridge	0.47	2.51	5.19	6.02	4.78	1.72	8.06	0.59	4.94	2.20	6.27	0.03	42.78
Eureka	0.99	1.29	4.76	7.08	5.35	2.13	5.97	1.52	3.70	1.42	3.22	.....	.....
Fort Riley	0.34	1.18	4.26	4.80	3.03	2.61	6.43	1.58	2.02	2.62	4.77	0.28	33.92
Fort Scott	1.42	1.00	8.11	9.59	2.04	1.93	5.52	1.81	3.27	1.55	4.59	0.30	41.13
Fredonia	1.12	0.89	6.50	7.60	6.92	2.12	9.32	3.14	1.31	1.92	2.04	0.23	43.71
Garden City	0.48	0.50	1.67	4.85	2.32	0.62	2.04	3.39	0.53	0.00	0.49	T.	16.89
Garnett	1.18	1.35	9.44	7.41	3.79	4.68	3.58	0.26	3.29	1.97	2.29	0.10	39.34
Goodland	0.02	0.25	1.67	5.09	3.12	2.61	2.91	3.13	0.01	0.10	0.96	0.01	19.88
Gove	0.05	0.26	2.02	3.80	2.48	1.14	1.78	1.75	0.49	0.22	0.62	T.	14.61
Greensburg	0.54	1.50	4.17	3.44	4.32	1.69	4.68	3.90	1.22	0.37	2.30	T.	28.13
Grenola	1.23	0.96	3.48	7.61	6.63	2.58	10.42	1.09	3.53	2.62	3.40	0.10	43.65
Haddam	.....	.....	.....	.....	.....	.....	.....	0.31	2.43	1.68	3.37	0.02	.....
Hanover	1.60	0.76	3.17	2.72	3.06	3.82	7.98	0.94	1.54	2.08	3.67	0.07	31.41
Hays	T.	0.93	1.71	4.51	2.61	2.18	4.20	0.81	0.43	0.32	1.28	T.	18.98
Healy	T.	0.60	0.35	2.58	1.80	3.02	0.75	2.13	1.38	0.19	0.43	0.01	13.24
Herington	0.06	2.43	4.17	5.27	5.81	0.83	7.31	0.46	3.56	2.16	7.08	0.05	39.21
Hill City	0.02	0.15	1.78	4.29	3.30	1.97	1.62	1.63	0.48	0.35	0.72	T.	16.31
Holton	0.46	1.83	4.24	5.83	3.71	3.22	5.91	0.39	2.80	2.01	5.76	0.20	36.36
Horton	0.12	1.20	3.68	5.18	3.68	0.90	3.38	1.08	1.94	2.15	3.91	0.02	27.24

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Kansas—Continued.													
Howard	.....	1.50	3.59	8.16	6.43	2.77	11.07	2.36	6.00	2.28	.....	.....	.....
Hoxie	0.10	0.25	2.46	4.47	2.75	1.13	2.53	1.60	0.30	0.15	1.12	T.	16.86
Hudson	.....	.....	.....	.....	6.32	3.40	4.15	1.83	1.61	1.49	3.22	0.00	.....
Hugoton	0.10	1.02	2.99	2.10	3.01	2.08	3.47	1.14	1.05	T.	0.80	0.06	17.82
Hutchinson	0.03	1.20	5.60	5.40	5.29	2.75	6.33	0.95	1.51	1.71	5.68	0.02	36.47
Independence	0.74	1.31	6.72	8.28	5.41	1.91	8.02	3.07	1.27	1.69	3.51	0.47	42.40
Iola	0.96	1.26	7.71	9.26	3.70	5.63	3.99	3.65	4.33	1.30	3.01	0.18	44.98
Irene	T.	0.50	0.48	2.87	1.93	1.75	3.07	2.67	0.12	T.	0.83	T.	14.22
Jetmore	.....	1.63	2.99	.....	4.46	2.53	3.07	2.71	1.00	0.00	T.	T.	.....
Johnson	0.32	0.75	1.06	2.21	2.34	1.49	3.68	2.06	T.	0.08	0.31	0.03	14.33
Kismet (near)	0.21	0.70	2.03	1.50	2.38	1.96	2.51	0.66	1.25	T.	0.15	0.00	13.35
La Crosse	0.07	.....	.....	4.64	3.67	1.85	2.18	1.81	.....	.....	.....	T.	.....
Lakin	0.21	0.27	0.92	2.97	2.62	3.00	2.98	0.58	0.39	0.20	T.	T.	14.14
Larned	0.03	1.20	3.62	5.06	4.49	1.41	1.90	2.14	4.28	0.71	1.31	T.	26.15
Lawrence	0.47	1.12	5.53	5.58	5.79	3.14	5.47	0.40	4.67	2.91	3.23	0.08	38.39
Leavenworth	.....	2.90	4.69	3.76	6.04	1.07	8.48	0.51	3.54	1.65	5.58	0.05	.....
Lebo	0.35	1.12	6.09	8.52	3.88	3.88	5.37	1.99	2.71	1.74	2.36	0.08	38.09
Leoti	0.05	0.40	1.55	3.87	1.98	1.35	2.69	1.60	0.40	T.	0.67	0.05	14.61
Le Roy	0.67	0.88	7.58	8.81	4.95	2.41	6.43	2.91	3.86	2.03	3.20	0.12	43.85
Liberal	0.26	1.55	2.90	1.76	3.06	2.06	2.31	0.61	0.81	0.15	0.38	T.	15.85
Lincoln	0.14	1.40	2.99	5.61	4.20	2.76	4.69	0.25	0.68	2.35	2.14	T.	27.21
Lindsborg	0.11	1.21	5.27	4.81	5.39	2.28	4.21	0.24	3.41	2.32	5.28	0.00	34.53
McFarland	.....	.....	.....	5.16	5.98	3.53	5.28	0.00	6.53	2.87	6.65	0.12	.....
McPherson	0.09	1.48	5.41	4.07	4.34	3.03	3.61	0.54	2.21	2.18	2.92	0.05	29.93
Macksville	0.07	1.46	4.67	5.85	6.22	2.20	2.43	5.49	3.57	0.79	3.46	T.	36.21
Manhattan	0.35	1.30	3.96	5.13	3.70	3.52	6.08	0.10	4.95	2.14	5.86	0.18	37.27
Marion	0.25	3.40	5.10	4.90	5.17	1.60	4.67	0.83	1.64	3.17	5.38	0.05	36.16
Medicine Lodge	0.77	1.27	6.44	3.78	6.09	1.22	4.58	2.76	1.21	1.35	2.61	T.	32.08
Medora	0.05	1.37	6.63	5.66	4.82	2.68	4.69	1.33	1.10	1.69	4.96	T.	34.98
Minneapolis	0.12	1.05	2.87	4.64	3.87	0.61	4.57	0.20	2.59	1.92	3.34	0.05	25.83
Minneola	0.45	1.30	4.22	1.41	2.43	3.84	3.13	1.35	2.91	0.25	1.88	T.	23.17
Mount Hope	0.61	2.88	5.75	5.15	4.96	3.62	3.43	0.91	1.91	1.15	3.26	0.00	33.63
Neosho Rapids	0.38	0.54	6.46	8.46	5.81	2.89	5.48	1.40	2.85	1.76	2.78	0.10	38.91
Ness City (near)	0.15	0.70	1.60	3.62	2.22	4.85	0.97	2.81	0.10	0.32	0.72	0.00	18.06
Newton	0.08	2.80	7.25	6.75	4.08	5.97	9.45	3.64	1.02	2.02	5.53	0.10	48.69
New Ulysses	0.10	0.30	1.34	1.42	.....	2.85	4.15	0.95	1.00	T.	0.20	0.00	.....
Norton (near)	T.	0.20	3.05	4.05	4.10	.....	4.66	0.71	0.46	0.35	0.70	T.	.....
Norwich	1.01	0.83	5.01	4.85	5.07	2.82	4.24	1.95	1.73	1.15	4.20	0.18	33.04
Oakley	0.00	0.09	1.62	3.22	3.59	1.25	2.87	1.17	.....	0.20	2.35	0.00	.....
Oberlin	0.03	0.07	0.90	3.96	3.30	2.03	4.12	2.96	0.36	0.08	3.31	T.	21.12
Oketo	0.62	1.17	2.85	2.63	2.64	1.20	6.64	0.36	1.60	1.44	3.48	0.19	24.82
Olathe	0.09	1.07	7.81	4.87	5.37	3.85	6.43	1.30	6.63	1.68	4.34	0.28	43.72
Osage City	0.96	0.81	4.65	7.83	4.41	2.21	6.71	0.57	3.25	1.48	2.39	0.05	35.32
Oswego	0.37	1.08	7.67	12.41	2.48	2.65	5.93	1.01	2.25	1.30	5.17	0.22	42.54
Ottawa	0.98	1.03	5.98	8.54	2.24	1.56	5.09	0.67	3.85	2.24	4.41	0.14	36.73
Overbrook (near)	.....	.....	.....	.....	3.88	3.38	7.87	0.21	3.01	1.80	3.98	0.09	.....
Paola	0.80	1.40	7.79	7.93	3.73	1.93	3.03	0.97	4.40	1.47	4.09	0.24	37.78
Phillipsburg	0.00	0.17	3.07	3.52	.....	1.74	2.34	1.13	0.94	0.44	0.40	T.	.....
Pittsburg	0.68	0.81	7.61	11.91	2.07	3.59	9.33	1.68	3.71	2.19	5.10	0.91	49.59
Plains	0.23	1.34	3.40	1.40	1.78	3.60	2.55	0.49	1.27	0.00	0.59	0.00	16.65
Plainville	0.15	0.55	1.31	4.33	3.68	3.00	3.68	1.90	0.37	1.10	0.74	0.05	20.86
Pleasanton	1.06	1.47	8.12	8.93	4.67	1.03	5.07	1.39	3.08	2.98	5.46	0.54	43.80
Pomona (near)	0.53	1.04	4.62	7.52	2.44	2.98	6.58	0.93	2.50	2.66	2.88	0.09	34.77
Pratt	0.50	0.70	5.63	4.05	5.83	0.63	4.51	1.66	1.92	1.82	2.60	T.	29.85
Quenemo	0.49	1.23	5.24	8.37	3.47	3.35	6.22	0.59	2.58	2.07	2.81	0.10	36.52
Randolph	0.81	1.54	3.58	4.01	3.22	3.66	6.29	0.29	3.73	1.75	4.73	0.10	33.71
Reading	0.70	1.02	4.99	8.20	6.44	2.55	9.15	2.45	3.10	1.69	3.11	0.11	43.51
Republic	0.49	0.95	2.42	2.13	4.36	1.67	5.49	0.42	1.55	1.58	1.93	T.	22.99
Richfield	0.31	0.79	0.94	2.59	1.86	2.80	3.37	2.14	0.54	0.17	0.67	0.10	16.28
Russell	0.02	1.46	3.06	5.47	4.06	4.69	2.97	0.55	0.31	1.63	1.63	T.	25.85
St. Francis	0.10	0.21	0.56	3.01	4.54	1.86	5.10	3.13	0.01	T.	0.99	0.11	19.62
Salina	0.12	0.89	3.90	4.92	3.24	1.24	3.61	0.14	1.54	3.15	4.55	0.03	27.33
Scott City	T.	0.33	0.83	2.73	2.59	1.17	0.71	3.10	0.17	0.11	0.46	0.02	12.22
Sedan	.....	2.20	.....	9.70	7.27	1.43	13.24	1.93	3.08	1.31	2.93	0.50	.....
Sedgwick	0.43	1.65	5.05	5.26	3.26	3.21	4.43	2.52	0.96	1.54	4.59	0.06	32.96
Smith Center	0.18	0.29	1.44	3.87	3.84	1.03	2.62	0.47	0.84	1.03	0.88	T.	16.19
Solomon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.96	0.00	.....
Sublette	0.17	1.23	1.75	4.00	3.00	2.51	1.85	1.12	1.42	0.02	0.34	T.	17.41
Syracuse	0.16	0.50	0.52	3.52	3.35	1.53	5.80	2.64	0.69	0.15	1.14	0.02	20.03
Topeka	0.34	2.48	4.27	5.23	3.98	1.35	8.04	0.43	5.51	1.69	4.83	0.06	38.16
Toronto	1.16	1.35	4.98	8.97	2.68	5.65	9.32	1.19	6.19	1.61	2.62	0.06	45.78
Tribune	T.	0.65	0.51	3.68	2.62	1.59	3.25	2.05	T.	0.03	0.96	T.	15.34
Trousdale	0.07	1.60	4.22	4.45	4.24	1.17	2.95	3.31	0.73	0.55	1.46	T.	24.75
Valley Falls (near)	0.34	2.20	3.56	3.44	5.31	1.89	6.14	1.90	3.50	1.61	5.03	0.15	35.07
Vinland	0.48	1.19	5.34	6.87	5.23	3.14	7.97	1.06	4.65	2.11	3.29	0.19	41.52
Wakeeney	T.	0.25	2.00	5.10	3.00	2.80	1.30	1.56	0.47	0.26	0.62	0.00	17.36
Wallace	T.	0.09	0.65	2.34	.....	1.64	1.52	.....	.....	.....	.....	.....	.....
Walnut	0.92	1.08	9.11	8.66	3.49	2.99	8.15	1.99	4.43	1.49	4.94	0.27	47.52
Wamego	0.45	1.08	4.28	5.29	4.08	3.86	7.81	0.24	4.56	2.38	6.59	0.18	40.80
Wellington	.....	.....	.....	.....	.....	.....	.....	.....	4.13	3.20	4.42	0.02	.....
Wheaton	0.90	1.48	4.81	5.04	2.56	2.14	4.39	0.16	3.02	2.16	5.65	0.19	32.50
Wichita (Weather Bureau)	0.88	1.38	3.39	6.12	5.60	3.99	8.46	2.12	2.00	2.59	5.35	0.06	41.94
Wichita (Evaporation Station)	.....	.....	.....	6.05	6.82	4.48	9.03	1.49	1.99	1.93	.....	.....	.....
Winfield	0.80	1.60	2.74	5.60	9.81	2.73	13.62	2.00	2.30	3.87	3.74	0.10	48.91
Yates Center (near)	0.67	1.47	5.52	7.91	3.03	5.19	8.83	1.56	6.20	0.95	.....	0.17	.....
Kentucky.													
Anchorage	1.49	3.34	7.45	5.14	2.91	2.29	6.50	0.76	1.43	1.75	1.90	5.23	40.19
Ashland	2.01	1.82	7.84	3.38	4.05	2.60	3.82	1.83	3.34	2.57	1.10	6.72	41.08
Bardstown	1.77	3.33	6.99	3.13	3.22	2.88	3.40	1.83	2.88	1.68	1.03	5.45	37.59
Beattyville	3.23	5.80	7.66	3.79	4.86	3.17	4.80	2.90	2.41	2.76	1.91	5.83	49.12
Beaver Dam	2.02	2.75	6.50	3.05	9.39	3.59	4.70	0.63	1.40	4.16	1.72	4.60	44.51
Berea	3.82	5.10	8.06	3.71	3.28	6.17	8.88	2.50	.....	0.76	3.00	6.92	.....
Blandville	1.92	2.86	12.68	4.51	2.72	2.18	5.74	1.68	1.85	2.70	2.08	4.77	45.69
Bowling Green	2.22	4.25	11.53	4.75	6.56	5.22	6.45	5.82	3.59	1.52	4.55	4.67	61.13
Brownsville	3.21	5.81	10.39	3.98	4.25	3.81	4.44	2.54	1.93	2.00	3.22	5.54	51.12

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Kentucky—Continued.													
Burnside	3.68	5.68	9.86	4.63	7.41	4.64	4.60	4.30	2.49	1.51	1.52	8.77	59.09
Calhoun	1.33	2.84	8.81	3.74	5.92	2.56	4.32	2.04	2.46	4.41	3.68	5.64	47.75
Camp Henry Knox	.....	.....	.....	3.08	.....	.....	.....	.....	.....	.....	.....	.....	.....
Carrollton	1.99	1.89	7.24	4.60	3.43	2.20	4.50	1.96	4.48	1.51	1.76	3.81	39.37
Cloverport	1.30	2.92	7.47	4.43	2.55	4.89	5.77	0.61	1.58	2.87	2.71	3.79	40.89
Cynthiana	1.25	1.85	7.15	3.85	1.85	1.55	2.80	2.95	3.97	2.45	0.75	5.05	35.47
Earlington	4.24	3.28	8.60	3.50	2.48	3.03	4.39	0.62	1.95	1.52	3.03	5.32	41.96
Eubank	3.70	4.85	9.29	4.35	8.46	4.30	4.64	2.65	0.89	1.45	1.78	5.46	49.82
Falmouth	1.90	2.45	6.52	3.65	2.68	2.00	3.27	3.06	1.32	1.74	0.85	4.30	33.74
Farmers	1.23	2.57	7.18	4.90	3.48	2.27	2.59	5.64	0.60	1.97	1.67	6.92	41.02
Frankfort	1.74	3.05	7.01	4.30	1.30	2.49	4.20	1.73	2.14	2.24	0.80	5.04	37.14
Franklin	3.05	4.61	8.85	3.87	4.33	3.54	5.49	2.44	2.16	1.87	2.54	6.70	49.45
Glasgow	1.37	4.78	8.97	4.23	3.33	3.98	8.42	4.20	1.35	2.46	1.16	6.69	50.94
Greensburg	4.06	5.86	10.27	3.75	3.72	2.69	5.43	5.38	1.84	1.82	1.80	6.38	53.00
Greenville	1.96	3.42	7.16	3.47	4.96	6.86	6.95	0.84	1.10	3.89	3.25	4.68	48.54
Henderson	0.71	1.97	8.99	5.08	2.70	3.55	4.79	4.65	3.45	2.72	2.24	6.17	47.02
High Bridge	2.62	3.78	9.58	3.52	2.67	3.38	4.84	2.88	1.26	1.03	1.32	5.00	41.88
Hopkinsville	2.24	3.11	7.58	3.86	2.24	3.79	5.10	1.66	3.15	2.09	3.79	6.84	45.45
Irvington	1.82	3.45	6.57	2.68	5.01	3.82	4.04	0.89	0.98	1.89	2.61	4.78	38.54
Jackson	.....	.....	.....	.....	.....	2.61	7.57	1.72	2.71	4.48	0.95	6.38	.....
Junction City	5.48	4.85	9.67	5.01	5.35	3.21	5.09	2.95	1.90	1.98	1.78	6.59	53.86
Leitchfield	2.82	4.30	8.03	3.58	4.02	2.46	6.55	0.85	5.67	2.48	3.14	6.33	50.23
Lexington	1.87	3.12	7.75	4.46	3.10	2.44	2.13	2.20	5.99	1.25	0.88	5.67	40.86
Louisa	2.84	3.33	6.51	3.59	3.52	3.45	4.33	3.55	2.06	2.10	1.31	6.66	43.25
Louisville (Weather Bureau)	1.59	2.66	6.46	6.06	2.17	4.00	7.79	1.63	1.39	2.24	1.83	4.96	42.78
Louisville (No. 2)	1.72	3.10	6.80	6.08	2.28	3.52	9.06	1.78	1.53	2.49	2.09	5.34	45.79
Marion	0.87	3.33	8.85	3.54	2.41	2.76	4.70	1.21	3.44	3.90	1.44	3.98	40.43
Mayfield	1.19	3.25	8.61	5.94	1.73	4.11	4.85	0.99	1.63	3.04	3.20	6.77	45.31
Maysville	2.33	3.50	8.05	3.34	3.58	1.48	1.55	3.40	1.08	2.57	1.10	4.36	36.34
Middlesboro	3.37	6.48	9.59	7.13	5.81	6.58	8.36	3.93	1.65	1.66	1.47	9.30	65.33
Mount Sterling	2.00	3.10	8.75	5.52	2.66	1.50	2.94	3.42	3.02	3.52	1.50	6.44	44.37
Oliver	1.86	2.21	6.69	3.24	4.81	2.75	2.55	2.73	1.38	1.78	0.76	4.11	34.87
Oneonta	2.43	2.40	7.82	4.85	3.00	1.56	3.17	3.28	2.45	1.61	1.43	5.05	39.05
Owensboro	0.79	2.15	5.83	4.15	2.24	1.72	3.28	1.23	1.46	3.05	2.80	4.58	33.28
Paducah	2.20	3.06	10.62	6.98	2.80	3.63	3.08	0.80	1.18	3.42	2.22	4.60	44.59
Paducah (Lone Oak)	2.09	3.02	9.52	5.10	2.08	2.04	2.70	.....	1.70	2.57	.....	4.25	.....
Pikeville	2.12	5.30	4.70	2.86	4.50	2.60	5.59	2.99	1.62	1.86	1.20	5.26	40.60
Pilcher	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.05	4.56	.....
Princeton	1.97	3.68	7.50	4.04	2.85	3.21	5.62	0.99	3.00	2.74	2.52	5.55	43.67
Richmond	2.71	3.55	7.92	2.77	5.51	3.44	4.72	1.69	3.26	1.95	1.37	5.75	44.64
Russellville	2.06	4.10	9.17	4.15	2.89	3.30	3.67	0.90	1.68	1.17	2.59	.....	.....
St. John	1.72	3.63	7.65	3.59	5.51	3.56	2.46	2.92	2.47	1.57	1.93	6.03	43.04
Scott	2.36	2.00	7.30	4.31	2.87	1.14	3.52	3.04	2.53	1.34	2.07	4.18	36.66
Shelbyville	.....	1.99	7.77	4.62	4.64	1.43	4.52	3.00	2.09	2.34	0.73	7.30	.....
Taylorsville	1.66	3.70	6.77	3.66	3.62	1.87	4.22	2.33	1.62	2.81	1.22	6.29	39.77
Vanceburg	1.21	4.47	7.35	3.61	6.35	0.35	2.35	2.16	1.55	2.41	1.31	5.74	38.86
Williamsburg	3.51	6.59	8.90	7.03	4.29	4.24	5.68	4.41	0.88	2.23	1.71	7.53	57.00
Williamstown	2.02	2.83	7.23	4.48	4.05	1.45	4.85	2.42	1.57	1.65	1.10	4.41	38.06
Woodbury	2.69	3.81	7.98	3.16	6.15	4.00	5.11	2.28	3.81	1.91	2.96	4.71	48.57
Louisiana.													
Abbeville	.....	3.13	7.14	4.82	9.03	.....	7.79	4.18	7.08	6.79	2.67	10.84	.....
Alexandria	8.49	3.98	15.52	6.10	7.16	3.05	6.24	7.40	3.41	1.33	4.13	3.29	70.10
Amite	8.05	5.60	10.37	4.90	7.55	8.87	8.47	6.35	2.65	5.55	3.62	9.72	81.70
Angola	.....	5.49	8.25	.....	.....	.....	.....	.....	0.10	1.14	2.26	5.68	.....
Avoca Island	3.55	2.32	7.96	2.18	13.09	8.81	10.40	5.89	3.71	5.14	4.61	8.65	76.31
Bastrop	7.69	7.32	12.40	7.40	5.89	6.60	5.71	1.49	1.11	0.65	4.16	3.35	63.77
Baton Rouge	5.10	5.49	9.93	1.88	5.33	7.56	7.19	7.99	4.70	2.74	2.27	8.07	68.24
Burrwood	3.04	4.37	6.69	2.19	8.34	5.65	8.66	9.01	8.19	4.89	0.58	5.60	67.21
Calhoun	6.22	7.75	12.61	7.67	7.66	3.73	2.34	4.06	1.84	0.63	3.42	2.85	60.85
Cheneyville	6.22	5.33	13.19	3.83	6.71	3.85	5.39	6.16	3.25	3.54	12.93	5.60	76.00
Cinclare	5.66	6.61	8.41	2.26	4.58	6.00	3.61	8.08	4.28	4.62	2.64	9.12	65.87
Clinton	7.83	6.34	5.69	1.59	5.70	6.10	4.87	4.59	2.60	3.85	2.85	7.87	59.88
Coushatta	7.22	10.06	10.58	9.80	5.53	.....	.....	.....	.....	.....	.....	.....	.....
Covington	6.23	2.62	12.96	3.39	4.37	3.48	8.13	5.65	1.34	3.49	2.23	6.55	61.14
Delta Farms	4.44	1.98	10.90	4.39	10.65	4.72	7.33	6.81	5.12	2.76	5.48	5.54	70.02
Dodson	6.54	12.89	11.12	5.53	6.26	3.37	3.45	3.01	0.97	1.35	.....	3.12	.....
Donaldsonville	4.60	4.24	7.57	4.42	7.99	5.09	8.50	10.21	3.59	3.85	4.34	7.42	71.82
Franklin	5.67	2.24	13.62	2.43	11.16	8.16	6.52	9.07	8.33	4.41	4.31	11.94	87.86
Franklinton	6.60	6.05	11.30	2.35	5.50	2.70	3.40	6.83	1.43	2.20	2.20	7.65	58.21
Grand Cane	6.12	7.49	9.67	6.45	5.72	2.85	2.85	3.55	1.09	0.22	2.35	3.89	52.25
Grand Coteau	6.84	4.59	6.97	1.67	5.98	4.48	4.19	7.82	4.17	6.34	6.45	8.81	68.31
Hammond	5.65	5.35	12.34	2.76	4.68	5.95	4.09	5.28	2.61	4.20	2.96	8.20	64.07
Houma	3.39	6.18	8.46	3.32	8.48	5.86	7.19	5.21	4.27	3.13	4.72	6.85	67.06
Jeanerette	4.75	3.23	8.09	3.92	7.70	7.14	6.45	6.87	7.44	4.48	4.37	10.31	74.75
Jennings	5.88	5.51	8.14	2.48	5.19	5.07	6.15	9.01	3.67	2.11	5.92	8.72	67.85
Kelly (near)	5.35	8.48	9.37	3.71	7.14	3.71	7.15	4.44	0.79	0.38	4.46	6.66	61.64
La Fayette	6.21	6.59	8.88	2.71	8.45	5.74	4.60	8.05	5.91	2.38	5.47	12.82	77.81
Lake Charles	6.21	4.43	7.75	1.59	5.20	6.10	4.10	2.54	4.16	1.31	4.15	4.55	52.09
Lakeside	9.42	4.20	7.37	1.85	6.13	10.12	9.61	6.15	6.05	6.40	17.96	10.09	96.25
Logansport	8.17	6.10	.....	6.54	9.20	5.87	5.05	1.60	0.75	0.01	3.50	2.98	.....
Ludington	10.80	5.39	9.19	4.70	7.80	7.92	3.78	2.89	0.38	2.22	3.37	4.37	62.81
Melville	8.15	5.30	7.30	2.60	7.95	4.05	7.90	3.47	2.94	2.81	6.00	9.21	67.68
Minden	7.18	7.39	11.49	7.84	5.15	5.44	6.55	2.86	2.00	1.36	2.72	5.15	65.13
Monroe	8.71	6.79	12.26	5.51	6.99	6.43	5.24	3.72	1.20	0.87	3.52	4.38	65.62
Morgan City	3.28	2.78	8.21	1.61	10.82	6.10	8.89	5.23	3.00	5.13	3.89	7.49	66.43
Natchitoches	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.78	3.68	2.40	.....
Newellton	6.61	8.87	13.21	3.67	2.50	4.97	6.25	4.60	0.47	1.46	4.13	9.12	65.86
New Iberia	4.21	4.59	8.77	2.46	7.17	6.52	2.72	7.51	4.93	3.41	5.82	9.24	67.35
New Orleans (Weather Bureau)	5.22	3.25	8.45	3.81	5.75	6.45	4.05	5.71	0.93	3.25	3.38	7.01	57.26
New Orleans (No. 2)	4.78	3.75	7.09	4.32	6.09	5.80	5.80	7.10	1.33	4.51	3.76	6.71	62.24
New Orleans (No. 3)	3.34	3.81	7.75	3.76	5.77	2.66	5.21	6.51	1.39	3.40	3.50	5.91	58.01
New Orleans (No. 5)	4.65	2.78	7.87	3.45	6.32	4.79	4.92	7.79	1.82	4.54	3.33	6.97	59.23
New Orleans (No. 6)	5.25	3.25	8.62	3.90	5.83	5.92	3.81	4.62	0.79	3.36	3.65	6.91	55.91
New Orleans (No. 7)	3.94	4.38	9.47	4.57	6.91	3.21	4.56	5.93	2.09	5.35	3.87	7.63	62.11
New Orleans (No. 8)	5.21	3.39	7.72	5.06	5.53	4.37	3.79	6.97	0.49	3.48	3.24	6.74	54.99

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Louisiana—Continued.													
Paradis	3.05	.....	10.30	5.80	8.20	4.10	6.75	2.66	4.60	1.00	2.30	8.78	.....
Pearl River	5.45	4.13	11.97	2.59	7.68	3.48	5.25	5.43	2.00	2.47	7.45	6.70	64.90
Plain Dealing	5.51	6.34	11.49	9.31	3.80	5.42	3.44	4.14	1.04	1.46	5.52	2.17	59.64
Rayne	5.94	4.80	6.60	3.10	4.80	.....	.....	.....	.....	.....	.....	.....	.....
Reserve	3.90	3.60	9.85	3.65	6.90	5.20	5.20	4.63	1.95	4.35	2.70	11.06	62.99
Richland Plantation	7.31	7.13	10.15	5.71	6.68	2.37	3.58	3.98	1.72	2.03	4.67	.....	.....
Robeline	6.30	5.30	6.60	7.70	6.75	2.60	4.55	2.80	1.90	0.70	1.95	1.40	48.55
Ruston	5.09	7.64	11.11	8.78	6.10	7.67	5.61	0.74	1.85	0.24	2.94	2.37	60.14
St. Francisville	.....	3.90	10.10	.....	.....	3.05	.....	.....	.....	2.09	2.95	5.82	.....
Schriever	4.15	3.55	11.75	4.90	10.50	10.35	12.25	7.90	5.85	3.60	4.85	12.05	91.70
Shreveport	5.73	5.40	9.31	6.97	4.04	3.77	4.09	2.04	1.36	0.45	2.01	2.59	47.76
Simmesport	.....	.....	.....	3.63	4.40	.....	.....	.....	3.75	5.18	8.09	.....	.....
Stables [1]	4.10	3.00	6.48	3.00	4.15	8.65	3.70	3.20	.....	1.85	2.40	5.94	.....
Ten Mile	6.02	6.24	8.71	2.43	5.66	7.54	5.42	7.28	0.64	0.53	3.61	5.17	59.25
Maine.													
Ashland	1.66	1.88	1.46	1.80	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cornish	2.57	3.80	5.10	3.91	5.61	10.46	1.98	2.76	2.60	2.51	1.45	3.42	46.17
Eastport	1.90	3.10	2.70	1.76	2.27	2.45	3.69	9.44	0.96	3.01	1.93	3.26	36.47
Eustis	2.28	2.58	1.97	2.82	1.62	6.58	3.12	4.08	1.12	2.30	0.93	2.76	32.16
Farmington	2.21	2.83	4.62	3.61	5.22	8.57	2.07	5.20	2.69	1.26	1.39	3.07	42.74
Gardiner	.....	3.43	4.59	2.18	5.72	6.85	2.91	4.84	2.22	2.71	2.33	2.57	.....
Greenville	2.02	2.77	2.96	2.99	3.44	10.00	3.54	3.41	1.89	3.14	1.97	2.79	40.92
Houlton	.....	.....	2.37	2.75	1.50	8.30	2.20	5.65	0.65	2.95	2.30	1.45	.....
Jackman	2.77	2.30	1.99	2.95	1.89	8.64	2.24	4.00	0.82	3.52	1.91	1.73	34.76
Lewiston	2.62	3.57	4.60	3.93	5.69	8.71	3.33	3.00	2.01	2.25	1.96	3.71	45.38
Madison	2.04	2.48	4.75	3.45	4.29	8.41	2.70	5.29	2.19	1.79	1.85	3.01	42.25
Millinocket	2.32	2.69	3.13	2.55	1.70	10.82	2.11	5.87	0.71	3.25	2.71	2.20	40.06
Milo	3.35	2.82	3.32	2.94	3.19	10.94	2.77	5.81	1.82	3.36	2.99	0.98	44.29
North Bridgton	2.31	3.16	4.91	4.48	6.02	10.43	2.65	4.03	1.73	2.33	1.56	2.76	46.37
Orono	1.84	2.28	3.33	2.97	1.05	8.66	2.26	5.39	2.10	2.78	2.25	3.42	38.33
Portland	3.40	5.05	3.86	5.17	5.72	10.47	2.50	2.75	1.80	2.13	1.33	4.81	48.99
Presque Isle	1.90	1.90	2.53	1.98	1.55	11.10	1.50	3.88	1.05	2.66	2.18	1.48	33.71
Rumford	1.91	2.45	3.97	3.46	4.25	11.71	1.15	5.41	2.94	2.82	0.97	2.38	42.92
The Forks	2.17	2.02	1.66	2.48	3.48	10.18	2.03	3.78	1.20	1.86	3.51	1.94	36.31
Van Buren	1.47	1.96	1.25	2.04	1.94	10.45	2.19	4.23	0.78	2.68	1.37	1.48	31.83
Winslow	1.74	2.57	4.64	2.83	4.61	7.68	6.48	7.07	2.84	2.81	2.32	2.12	47.71
Woodland	2.63	1.86	3.00	2.04	1.57	4.18	2.60	5.12	1.63	3.43	1.74	1.93	31.73
Wytopitlock	2.57	2.04	2.75	2.11	1.28	11.21	2.32	6.07	0.93	2.36	1.66	2.10	37.40
Maryland.													
Aberdeen	3.25	2.90	4.09	1.30	3.42	3.85	7.52	2.45	2.12	0.74	0.50	2.71	34.95
Annapolis	5.27	3.43	5.91	1.79	2.78	5.27	7.94	3.34	2.73	2.04	0.51	3.97	44.98
Baltimore (Weather Bureau)	4.88	2.94	4.83	0.88	4.00	4.45	7.28	1.11	2.69	5.58	0.44	3.43	42.51
Bell	4.91	3.26	5.44	1.84	3.13	6.67	7.62	4.91	2.60	1.73	0.71	3.82	46.64
Boyds	3.71	2.04	4.07	1.30	2.60	2.42	4.36	3.92	2.41	1.33	0.57	3.09	31.82
Cambridge	5.52	3.14	4.94	2.20	1.81	5.44	11.78	2.89	1.66	1.76	0.85	4.17	46.16
Cecilton	3.74	3.46	5.68	2.38	1.83	7.67	8.36	1.60	1.58	1.45	0.53	2.95	41.23
Cheltenham	5.63	3.65	6.22	1.67	4.17	6.94	5.03	4.67	7.30	1.50	0.73	3.23	50.83
Chesapeake City	3.22	3.25	4.13	2.46	1.76	6.74	3.42	1.44	2.08	1.32	0.84	2.97	33.43
Chewsville	2.61	2.21	3.44	1.61	2.98	3.73	7.02	3.66	1.20	1.66	0.61	2.32	33.05
Clear Spring	1.39	2.32	3.93	1.31	3.93	3.83	2.53	2.65	1.38	2.47	0.58	3.09	29.41
Coleman	3.85	3.47	4.26	2.08	2.61	6.92	8.92	1.27	1.39	1.41	0.46	3.31	39.95
College Park	4.01	3.23	4.43	2.01	4.45	3.50	7.51	2.77	4.24	1.31	0.66	3.77	42.79
Costen	.....	.....	5.72	2.15	1.92	6.23	6.97	5.72	2.68	1.61	1.00	5.78	.....
Crisfield	4.72	6.35	9.22	1.77	2.96	6.99	4.41	5.57	4.51	2.25	1.10	5.75	55.59
Cumberland	1.84	2.10	3.38	1.37	3.23	2.41	1.89	1.71	1.26	1.18	0.55	3.47	24.39
Darlington	.....	.....	.....	2.28	3.24	3.24	5.23	2.11	1.36	1.34	0.62	3.16	.....
Easton	5.57	3.50	4.01	1.83	1.58	5.42	5.66	3.17	2.00	1.94	0.72	4.58	39.98
Emmitsburg	2.73	.....	5.25	1.97	4.39	8.49	5.24	4.15	1.35	1.89	0.71	3.86	.....
Fallston	3.91	2.49	3.87	1.68	4.92	5.09	8.60	2.63	2.15	2.46	0.53	3.52	41.85
Ferry Landing	.....	3.41	5.12	1.50	2.84	5.59	9.55	5.38	5.65	5.12	0.46	3.54	.....
Frederick	3.10	2.51	4.32	1.50	3.38	7.41	5.16	2.59	2.51	1.19	0.57	3.13	37.35
Freeland	3.93	.....	4.86	.....	3.20	3.85	6.20	2.43	0.80	2.76	0.50	3.87	.....
Friendsville	3.29	2.52	5.65	2.85	3.07	5.81	3.28	1.86	0.96	1.49	1.16	3.40	35.34
Frostburg	2.30	2.15	3.38	2.25	4.45	3.17	2.21	2.73	4.00	1.68	0.72	3.54	32.58
Grantsville	2.85	2.96	4.68	3.52	3.50	5.12	4.29	2.64	1.37	2.19	0.84	4.54	38.50
Great Falls	4.03	2.69	4.31	1.45	2.58	3.11	3.69	3.49	5.63	1.52	0.57	3.55	36.62
Hancock	1.90	2.09	3.82	1.96	3.76	2.76	2.59	1.91	3.58	2.88	0.60	2.82	30.67
Keedysville	2.92	2.04	3.65	1.46	3.49	5.13	3.67	3.58	2.28	2.41	0.61	2.62	33.86
La Plata	4.75	3.59	5.82	1.78	3.99	3.73	4.59	4.50	3.28	2.37	0.52	3.59	42.51
Laurel	4.63	2.61	4.17	1.65	4.15	5.22	3.72	2.29	2.63	1.32	0.56	3.25	36.20
Oakland	3.62	3.85	4.62	3.56	2.91	4.50	4.33	3.18	1.89	1.68	1.27	6.13	41.54
Princess Anne	4.54	5.24	6.11	1.75	2.66	5.18	5.19	8.19	3.53	2.04	1.07	5.89	51.39
Public Landing	5.04	4.72	6.34	2.31	1.74	2.84	11.70	7.68	2.09	2.61	0.86	7.72	55.65
Riderwood	4.36	2.27	4.84	1.24	4.34	5.57	4.17	1.80	1.54	2.95	0.42	3.79	37.29
Ridgely	.....	.....	.....	.....	.....	.....	5.04	1.75	2.33	1.43	0.67	3.86	.....
Rock Hall	4.57	3.20	6.01	1.95	2.18	5.60	7.00	2.67	3.18	1.10	0.50	3.67	41.63
Salisbury	4.41	4.20	.....	2.08	1.93	3.52	6.59	9.17	3.51	1.97	0.85	5.09	.....
Solomons	4.49	3.50	4.55	1.66	1.98	6.41	6.06	4.21	2.72	1.31	0.55	3.86	41.30
State Sanatorium	2.52	.....	.....	1.80	5.40	9.35	5.20	2.66	1.20	2.06	0.63	2.81	.....
Sudlersville	3.55	3.83	4.45	1.99	2.37	5.35	7.40	1.94	1.55	1.42	0.60	3.77	38.22
Takoma	5.25	3.10	4.08	1.86	4.41	3.75	8.09	1.79	4.29	0.99	0.57	3.63	41.81
Western Port	2.16	2.85	3.65	1.85	3.12	2.05	1.83	2.17	1.15	2.35	0.40	4.52	28.10
Westminster	3.18	2.32	5.61	1.82	2.81	4.81	3.23	2.35	0.69	1.75	0.60	3.04	32.21
Woodstock	4.05	.....	4.71	1.56	3.62	5.34	6.64	2.17	2.85	1.93	0.47	3.06	.....
Massachusetts.													
Amherst	1.56	3.62	5.34	2.81	5.47	9.68	4.28	4.25	2.27	2.55	1.56	3.15	45.94
Ashland	1.76	3.17	5.23	1.47	5.06	7.55	3.09	4.60	4.60	2.30	1.31	3.53	43.67
Bakers Bridge	0.70	1.95	3.49	1.83	5.43	9.00	5.05	4.21	1.86	2.58	1.54	2.85	40.49
Bedford	1.78	2.60	4.15	1.83	3.90	9.32	4.91	3.36	3.36	2.18	1.35	2.88	41.62

[1] Name changed from New Llano.

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Massachusetts—Continued.													
Blue Hill	1.80	3.69	5.55	2.92	6.06	10.78	4.05	6.19	5.20	2.62	1.42	4.12	54.40
Boston	1.41	2.64	4.35	2.48	5.34	8.05	2.63	4.75	3.66	1.97	0.84	3.01	41.13
Chestnut Hill	1.64	3.73	5.44	1.58	5.33	9.80	3.41	5.93	4.12	2.31	1.19	4.62	49.10
Clinton	2.41	3.41	6.28	1.59	5.08	9.97	5.23	4.31	2.49	2.43	1.46	3.88	48.54
Concord	1.78	2.80	4.10	2.14	4.87	10.04	4.72	3.89	3.88	2.10	1.37	3.23	44.92
Fall River	2.31	3.35	4.68	2.45	4.95	6.23	4.10	8.78	2.31	2.74	1.28	3.61	46.79
Fitchburg	2.42	2.78	4.43	1.75	4.16	10.30	4.53	3.92	4.89	2.49	1.52	3.23	46.42
Framingham	1.73	3.34	5.30	1.64	5.37	9.33	3.05	4.87	3.79	2.00	1.25	3.29	44.96
Haverhill	1.87	2.78	4.13	2.21	4.54	10.01	8.02	2.90	1.79	1.51	0.96	3.32	44.04
Hingham	1.63	2.94	4.70	2.83	4.76	7.69	3.57	7.50	2.88	3.88	1.25	4.55	48.18
Holyoke	.....	.....	4.79	3.09	5.47	.....	.....	.....	1.97	3.41	1.48	.....	.....
Hyannis	2.42	4.30	5.58	2.70	4.64	2.19	4.73	4.87	0.90	2.50	1.47	4.04	40.34
Jefferson	2.41	4.58	6.72	2.51	4.67	9.38	4.98	6.27	2.01	2.32	1.56	4.27	51.68
Lake Cochituate	1.86	3.38	5.58	1.79	5.06	10.53	3.06	4.11	4.42	2.33	1.24	3.66	47.01
Lawrence	2.12	3.03	4.59	2.28	4.75	11.14	7.17	4.22	4.46	2.12	1.16	3.47	50.51
Lee	1.20	1.62	5.32	2.91	6.48	9.57	4.79	4.42	1.82	3.29	1.99	1.04	44.45
Leominster	2.56	2.78	5.30	2.02	5.98	7.46	5.47	5.64	4.37	2.79	1.57	3.25	49.19
Lowell	2.44	3.02	4.82	2.37	5.31	10.40	5.59	3.79	5.41	2.76	1.45	3.17	50.53
Nantucket	3.68	4.91	6.24	2.90	3.44	2.61	5.05	8.40	0.83	5.34	0.67	4.87	48.94
New Bedford	1.71	2.61	3.74	1.20	2.88	3.46	3.28	8.71	1.92	3.77	1.02	2.80	37.10
Plymouth	2.78	.....	6.32	2.23	2.88	4.44	4.36	11.63	1.87	2.66	1.15	4.78	.....
Princeton	2.74	3.73	5.63	2.42	4.74	8.81	5.18	5.15	3.07	2.45	1.67	4.13	49.72
Provincetown	1.55	2.85	3.15	3.80	4.85	4.33	2.65	7.13	1.81	1.93	0.98	4.05	39.08
Rockport	1.66	3.41	3.54	1.47	5.59	10.10	5.87	4.51	1.88	3.12	0.73	2.85	44.73
Rutland	1.87	2.76	5.31	1.13	3.90	9.07	5.16	5.84	3.06	2.44	0.70	2.83	44.07
Somerset	2.31	3.08	5.14	2.14	4.40	5.73	5.40	12.16	1.81	3.90	1.29	.....	.....
Spot Pond	1.65	3.32	5.47	1.61	5.44	11.33	3.69	3.97	3.24	2.81	1.22	4.21	47.96
Springfield	.....	1.60	5.93	.....	.....	.....	6.97	3.47	1.96	3.45	1.48	1.67	.....
Sterling	2.32	3.38	6.53	1.94	4.98	9.69	4.91	4.80	3.39	2.23	1.71	3.85	49.73
Taunton	2.32	3.81	5.72	2.99	4.83	7.12	7.39	11.82	2.64	4.23	1.41	3.67	57.95
Turners Falls	1.96	2.88	6.58	3.41	6.27	7.05	1.30	3.17	1.98	1.60	1.37	1.69	39.26
Westboro	2.20	3.68	3.56	3.52	5.98	10.10	2.62	4.92	3.76	2.62	1.31	3.74	48.01
Williamstown	1.56	1.52	3.87	2.63	3.27	6.60	2.05	5.91	1.60	1.42	1.19	2.50	34.12
Winchendon	2.30	3.13	5.28	2.93	4.63	12.00	5.90	4.80	3.09	2.59	1.92	3.58	52.15
Worcester	1.01	2.59	3.93	2.15	3.06	8.31	2.05	3.51	3.27	2.46	0.56	2.60	35.52
Michigan.													
Adrian	1.70	1.23	4.96	5.09	5.34	3.14	5.02	1.85	2.72	3.27	1.55	2.32	38.19
Albion	1.64	2.69	4.50	4.57	3.55	2.46	1.99	3.40	2.01	3.18	1.47	1.05	32.51
Allegan	2.87	1.71	4.12	3.60	3.00	1.10	2.39	1.51	4.18	2.21	3.04	2.86	32.59
Alma (No. 1)	0.91	2.76	3.04	4.69	3.11	2.86	2.98	1.57	5.71	2.48	2.27	1.32	33.70
Alma (No. 2)	.....	.....	1.20	2.98	2.36	.....	.....	.....	.....	.....	.....	.....	.....
Alpena	1.13	3.09	1.92	2.78	1.76	2.51	3.56	5.14	1.04	2.08	2.61	0.91	28.53
Alpena (near)	1.75	4.93	1.67	3.76	2.34	3.20	4.21	4.53	1.33	2.21	2.59	1.64	34.16
Ann Arbor	1.23	1.70	3.98	3.97	2.98	1.55	1.42	1.81	2.47	2.18	1.34	1.56	26.14
Ann Arbor (near)	1.56	1.40	3.84	4.50	2.99	1.62	1.25	2.05	2.39	2.06	1.13	1.29	26.08
Armada	0.86	1.70	2.59	4.24	1.77	2.04	.....	.....	.....	.....	.....	.....	.....
Battle Creek (No. 1)	1.40	1.59	4.29	3.50	3.60	3.37	1.59	2.08	1.58	3.26	2.38	0.99	29.63
Bay City	0.73	2.28	2.28	2.56	1.47	4.04	3.13	1.34	6.00	2.05	1.83	0.98	28.69
Benzonia	1.74	5.33	2.95	3.89	2.63	4.23	3.52	1.08	6.20	3.71	3.15	1.58	40.01
Bergland	1.52	2.97	2.36	3.24	2.33	8.21	3.03	2.53	3.28	1.01	2.11	2.10	34.69
Big Rapids	0.50	3.78	3.01	2.84	2.99	3.77	3.14	1.65	6.43	3.08	2.27	0.93	34.39
Bloomingdale	2.50	1.65	2.60	3.53	5.57	1.07	1.86	0.58	3.59	2.94	4.32	3.20	33.41
Boyne City (near)	.....	.....	.....	.....	.....	.....	4.06	2.30	.....	2.55	4.40	.....	.....
Boyne Falls	.....	.....	.....	.....	.....	.....	2.60	1.45	2.21	3.31	.....	.....	.....
Bridgeport	.....	.....	2.72	2.90	1.89	.....	.....	.....	.....	.....	.....	.....	.....
Cadillac	0.46	4.86	2.39	2.89	3.22	6.50	6.42	2.85	5.87	1.79	2.08	0.57	39.90
Calumet	3.20	2.78	0.50	2.81	2.50	4.38	2.88	1.68	4.35	3.09	5.78	4.94	38.89
Cassopolis	1.26	0.69	4.14	4.05	4.08	2.05	1.95	1.66	1.42	3.08	2.18	1.26	27.82
Ceresco	1.33	1.65	2.24	4.00	4.05	1.52	2.51	1.46	1.17	3.88	1.72	1.32	26.85
Charlevoix	.....	.....	3.20	.....	2.36	2.58	4.69	2.00	2.00	2.82	3.20	0.50	.....
Charlotte	1.55	1.01	2.47	2.80	2.03	2.00	2.58	2.41	2.20	2.46	1.85	1.23	24.59
Chatham	.....	.....	.....	2.88	3.47	4.37	5.14	1.22	3.15	1.66	2.86	1.07	.....
Cheboygan	.....	3.26	2.08	4.07	2.96	2.66	4.73	1.91	1.69	2.83	3.09	1.24	.....
Chesaning	.....	.....	2.62	3.09	2.56	.....	.....	.....	.....	.....	.....	.....	.....
Coldwater	2.00	0.65	2.83	3.33	6.92	2.87	2.01	1.24	1.90	3.80	1.54	2.15	31.24
Cooke Site	1.55	2.50	2.32	2.25	1.32	3.18	5.22	2.47	1.96	2.26	1.97	2.19	29.19
Croswell	.....	.....	.....	.....	2.20	5.34	1.84	2.60	6.10	1.90	.....	.....	.....
Croton	0.78	4.20	2.83	2.62	2.46	2.11	4.95	2.02	7.06	2.99	1.84	1.51	35.37
Deer Park (near)	4.97	5.51	2.55	3.00	3.88	5.04	6.77	2.32	2.17	1.88	2.93	2.03	43.05
Detroit	1.58	1.91	5.12	2.74	2.53	1.46	1.99	3.36	3.83	1.22	0.78	2.31	28.83
Dimondale	.....	.....	2.73	4.13	4.89	.....	.....	.....	.....	.....	.....	.....	.....
Durand	1.42	1.78	3.14	2.98	3.18	2.28	2.30	1.12	2.12	2.13	0.54	1.68	24.57
Eagle Harbor	1.45	1.78	0.83	2.92	1.33	2.96	5.76	1.92	3.44	0.39	2.83	2.91	28.51
East Tawas	1.20	3.74	2.72	2.52	1.59	5.80	6.99	2.10	1.83	2.23	2.36	1.68	34.76
Eaton Rapids	.....	.....	3.02	4.20	3.68	.....	.....	.....	.....	.....	.....	.....	.....
Edmore	.....	.....	.....	.....	4.44	3.02	4.80	1.50	4.90	.....	.....	.....	.....
Eloise	1.10	1.64	4.02	2.46	1.64	1.55	3.63	1.96	2.29	2.22	2.10	1.35	25.96
Escanaba	1.12	2.71	2.21	4.23	2.35	3.63	7.37	2.18	4.45	0.71	2.02	0.94	33.92
Ewen	2.73	4.53	1.58	4.50	2.35	7.09	2.76	2.92	2.19	1.11	2.40	1.56	35.72
Fife Lake (near)	0.97	1.98	2.27	3.36	3.49	3.41	4.92	2.44	4.96	2.23	2.71	0.70	33.44
Five Channels	0.60	4.56	2.60	2.58	1.67	3.82	5.54	2.19	1.98	2.83	1.79	2.29	32.36
Flint (No. 1)	1.42	2.08	2.54	3.54	2.26	1.66	4.55	2.03	3.33	2.72	1.32	1.10	28.55
Flint (No. 2)	.....	.....	2.60	3.54	2.95	.....	.....	.....	.....	.....	.....	.....	.....
Frankfort	1.42	2.86	3.15	2.97	2.45	3.34	3.68	1.14	6.45	3.52	2.35	1.17	34.50
Ganges	1.23	1.00	3.38	3.45	3.96	0.78	3.25	.....	.....	.....	.....	.....	.....
Gaylord	.....	.....	.....	3.23	1.25	.....	.....	.....	2.09	1.88	1.96	.....	.....
Grand Haven	1.39	2.91	4.26	2.02	2.10	1.85	3.22	3.02	4.66	2.21	3.63	1.50	32.77
Grand Ledge (No. 1)	.....	1.24	3.24	2.64	2.93	2.39	2.09	1.97	4.01	2.98	1.66	0.98	.....
Grand Ledge (No. 2)	.....	.....	1.21	.....	2.95	.....	.....	.....	.....	.....	.....	.....	.....
Grand Marais	2.84	4.04	4.20	3.74	3.57	3.78	3.17	1.55	4.03	1.10	2.66	5.57	40.25
Grand Rapids (Weather Bureau)	0.71	2.25	3.18	4.50	2.64	3.16	4.05	2.96	5.04	2.87	2.39	1.40	35.15
Grand Rapids (Cons. Power)	1.32	.....	3.19	2.40	2.41	1.59	4.33	2.58	.....	.....	.....	.....	.....
Grayling	0.94	2.62	1.27	4.17	3.15	4.89	5.99	3.48	.....	1.94	2.82	0.90	.....
Greenville	0.90	2.98	3.02	2.93	5.32	2.33	3.75	1.91	6.00	2.50	2.12	1.15	34.91
Hamburg	0.96	1.60	2.62	3.98	3.87	1.62	1.32	1.46	3.00	1.24	1.58	1.07	24.32

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Michigan—Continued.													
Harbor Beach	1.02	4.03	1.77	3.51	1.30	4.71	5.59	2.14	1.83	1.80	1.63	1.24	30.57
Harrison	0.50	.....	.....	.....	2.20	.....	2.63	.....	.....	.....	.....	.....	.....
Harrisville	1.15	3.45	2.12	2.66	1.33	4.59	4.91	3.39	2.06	2.28	1.95	1.09	30.98
Hart	1.27	3.61	2.99	4.78	4.02	1.71	5.95	1.71	6.41	1.92	2.89	1.13	38.39
Hastings	0.37	2.80	3.20	4.40	5.96	1.40	2.20	3.60	3.70	2.40	1.35	1.45	32.83
Hillsdale	1.92	0.80	5.19	5.87	4.39	2.99	1.30	1.57	3.34	2.60	1.77	1.66	33.40
Holland	0.81	1.55	3.08	3.32	2.57	1.86	4.66	2.05	5.04	2.24	3.01	1.14	31.33
Houghton	2.79	4.84	0.66	2.62	2.13	4.00	2.10	2.01	4.50	0.62	2.10	2.59	30.96
Houghton Lake (near)	0.92	2.16	1.76	3.34	2.85	4.03	5.19	4.20	3.54	2.03	2.27	0.53	32.82
Howard City	1.44	.....	6.95	.....	2.70	3.35	4.61	3.44	5.80	2.03	2.22	1.15	.....
Howell	0.91	1.73	3.48	3.16	3.82	2.19	2.51	1.49	2.39	1.43	0.89	1.11	25.11
Humboldt	1.10	2.50	2.57	2.25	3.29	4.14	5.61	2.23	5.27	1.36	2.84	1.40	34.56
Ionia	.....	1.93	2.33	3.00	4.68	.....	.....	.....	.....	.....	.....	.....	.....
Iron Mountain	0.56	3.55	0.92	3.07	2.10	4.42	3.46	1.73	4.26	1.08	2.18	1.48	28.81
Iron River (Pen. Power Co.)	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.92	2.09	0.85	.....
Iron River (near)	0.50	1.80	0.50	1.50	3.10	6.45	3.78	2.36	6.66	0.58	2.39	0.70	30.32
Ironton (near)	.....	.....	.....	.....	.....	.....	3.13	1.70	2.69	.....	.....	.....	.....
Ironwood	2.00	5.40	1.85	3.36	2.97	5.18	3.20	3.02	4.16	1.33	3.07	1.59	37.13
Ishpeming	0.74	4.26	2.25	3.39	3.26	4.50	3.79	1.45	4.51	1.35	3.08	1.09	33.67
Ivan	.....	.....	2.92	3.40	3.26	3.66	4.69	2.81	5.21	2.54	.....	.....	.....
Jackson (No. 1)	1.17	1.57	2.99	4.06	2.95	3.06	1.96	1.25	2.69	3.24	1.64	1.00	27.58
Jackson (No. 2)	1.25	.....	3.21	4.07	3.48	2.64	.....	.....	.....	.....	.....	.....	.....
Johannesburg	0.80	3.45	2.45	3.63	3.24	3.32	5.97	2.64	2.21	2.58	3.07	1.03	34.39
Kalamazoo (No. 1)	1.62	1.66	4.03	4.03	3.60	2.26	2.10	0.75	2.05	3.17	2.26	1.81	29.34
Kalamazoo (No. 2)	.....	2.19	3.30	3.73	2.89	1.98	1.76	0.68	1.81	3.02	2.32	1.48	.....
Kent City	.....	.....	.....	.....	.....	.....	4.76	2.82	3.77	.....	.....	.....	.....
Lansing	1.23	0.97	3.69	3.75	3.39	1.83	2.57	2.42	2.93	2.48	1.79	1.03	28.08
Lapeer	1.35	1.55	2.50	3.40	2.55	2.81	4.75	1.10	2.52	2.29	1.25	.....	.....
Loud	0.60	2.70	1.72	3.60	1.51	.....	5.50	2.46	1.64	2.34	1.75	1.55	.....
Lowell (No. 1)	1.10	2.13	3.17	2.44	3.03	2.76	4.67	3.13	5.44	3.07	2.16	1.55	34.65
Lowell (No. 2)	.....	1.68	2.42	3.35	3.34	.....	.....	.....	.....	.....	.....	.....	.....
Ludington	0.56	5.11	3.36	2.39	3.02	3.77	3.73	1.93	4.67	2.58	2.02	1.07	34.21
Luther	0.70	5.52	3.41	3.16	3.92	6.61	6.74	1.38	5.23	2.26	2.30	0.85	42.08
Mackinac Island	5.05	4.70	0.55	8.83	4.46	3.46	6.02	0.56	1.31	2.47	3.49	1.46	42.36
Mackinaw	2.00	3.43	1.18	3.01	4.10	2.74	5.83	1.52	1.44	1.92	3.69	1.16	32.02
Mancelona	2.40	3.04	2.70	.....	4.05	5.55	.....	1.15	.....	1.93	2.10	1.15	.....
Manistee	.....	.....	2.10	2.72	2.53	6.21	3.85	1.30	6.08	2.10	2.98	1.10	.....
Maple Ridge	1.00	2.20	2.80	3.68	2.50	5.37	6.69	1.80	4.24	2.59	3.17	1.85	37.89
Marquette	1.94	3.00	2.72	3.79	3.27	4.50	3.49	2.02	3.26	1.74	2.84	1.14	33.71
Menominee	1.05	2.71	2.49	4.66	1.40	3.56	3.88	4.57	2.42	0.78	1.93	0.75	30.20
Midland (No. 1)	0.74	3.30	2.74	2.65	2.14	4.03	3.85	3.44	5.50	1.90	1.69	0.80	32.78
Midland (No. 2)	.....	.....	1.74	2.43	2.30	.....	.....	.....	.....	.....	.....	.....	.....
Millington	0.70	2.33	2.45	3.61	1.95	4.25	4.51	1.05	3.92	1.93	1.86	0.75	29.31
Mio	0.72	2.71	1.53	2.48	2.89	3.92	5.95	5.18	2.12	1.98	1.72	1.25	32.45
Monroe	1.13	1.02	3.81	3.40	3.73	3.43	1.88	3.43	2.51	1.85	1.61	1.99	29.79
Morenci	1.87	1.23	6.47	3.45	4.86	2.92	2.68	2.11	4.90	3.31	.....	3.62	.....
Mount Clemens	1.00	.....	3.83	3.42	1.70	2.21	1.60	3.69	4.64	1.08	1.52	1.70	.....
Mount Pleasant (No. 1)	.....	2.72	2.94	3.01	2.79	3.65	3.28	.....	5.59	1.71	1.84	1.29	.....
Mount Pleasant (No. 2)	.....	.....	2.94	3.01	3.24	.....	.....	.....	.....	.....	.....	.....	.....
Munising	2.46	2.96	3.15	4.61	4.23	3.45	4.99	2.69	4.78	1.62	3.44	1.84	40.22
Muskegon	1.02	3.14	3.58	1.86	1.94	1.25	5.24	1.31	4.67	2.30	2.88	1.19	30.38
Newberry	1.59	2.27	1.91	3.64	2.70	2.76	5.66	2.84	2.51	1.93	2.80	1.61	32.22
Old Mission	0.70	3.06	2.19	3.89	3.15	2.83	4.51	2.51	2.27	3.45	3.40	1.18	33.14
Omer	1.03	4.05	.....	1.72	2.94	8.66	4.92	4.09	2.94	2.22	1.78	1.73	.....
Onaway (near)	0.96	4.83	2.23	4.88	2.96	3.34	3.05	3.03	1.21	2.22	2.20	2.23	33.14
Otsego	1.51	2.21	4.49	3.61	5.09	2.50	2.04	1.15	3.44	2.57	2.93	1.74	33.28
Owosso (No. 1)	.....	2.18	2.80	4.32	3.72	1.84	3.91	1.67	3.57	2.37	1.52	1.09	.....
Owosso (No. 2)	.....	.....	2.93	4.61	3.12	.....	.....	.....	.....	.....	.....	.....	.....
Petoskey	2.05	3.20	1.45	3.65	2.45	2.45	4.42	1.90	2.78	2.20	2.13	0.90	29.58
Plainwell	2.43	2.11	3.88	4.31	3.21	2.16	2.56	1.22	3.08	2.22	3.01	2.39	32.58
Plymouth	1.42	1.96	3.32	3.21	3.07	1.70	1.41	1.57	3.89	2.05	0.83	1.75	26.18
Pontiac	1.17	1.12	2.34	2.44	3.61	1.35	0.48	0.80	4.16	1.26	0.61	0.89	20.23
Port Austin	0.82	3.60	1.74	3.78	1.44	4.97	4.04	0.79	2.24	2.00	1.06	.....	.....
Port Huron	1.10	1.07	2.79	3.39	2.82	1.92	2.01	0.89	6.38	1.29	0.74	1.21	25.61
Portland	.....	02	.....	2.04	3.27	.....	.....	.....	.....	.....	.....	.....	.....
Powers	1.00	2.50	2.25	.....	.....	.....	5.31	2.64	3.22	0.75	3.11	1.15	.....
Rogers	.....	3.00	2.39	2.63	3.85	2.77	4.49	1.10	5.58	2.34	1.73	1.36	.....
Roscommon	0.62	1.65	2.10	3.61	2.84	4.30	4.83	4.06	2.39	2.13	2.08	0.76	31.27
Sack Bay	2.05	4.31	4.00	6.30	3.00	2.00	5.70	2.59	4.88	1.14	2.61	1.21	39.79
Saginaw (Weather Bureau)	0.92	1.85	2.48	2.06	1.56	4.15	3.21	1.79	4.77	1.70	1.65	0.80	26.94
Saginaw (No. 2)	0.84	1.89	3.14	2.22	1.73	3.96	3.06	1.82	5.40	1.43	2.18	.....	.....
St. Ignace	0.80	1.72	0.62	.....	.....	3.70	4.17	0.98	1.25	1.75	3.13	1.06	.....
St. James	2.55	3.51	1.35	2.09	1.82	3.83	4.79	1.79	2.76	1.74	2.32	0.88	29.43
St. Joseph	2.95	1.75	4.10	4.57	3.30	2.32	3.35	1.35	4.10	2.54	3.37	0.92	34.62
Sandusky	0.82	0.77	1.43	3.02	1.37	5.61	3.26	1.72	5.07	1.55	1.66	0.41	26.69
Sarsnac	0.83	1.96	2.41	2.93	3.70	2.59	2.71	2.43	4.99	2.66	2.13	.....	.....
Sault Ste. Marie	1.44	1.94	1.13	3.90	2.79	2.60	5.44	1.64	1.13	2.06	3.55	2.30	29.92
Scottville	.....	2.10	.....	.....	2.15	.....	2.35	1.11	2.15	2.03	.....	.....	.....
Sidnaw	2.32	6.12	1.11	1.65	1.75	4.45	4.05	2.23	5.81	0.74	2.20	1.15	33.58
South Haven	1.30	1.24	4.27	4.43	2.88	1.38	1.86	0.77	6.03	3.38	2.40	3.36	33.30
Stronach	2.08	6.35	2.31	2.58	2.73	6.02	4.85	1.30	8.53	1.91	2.31	1.68	42.65
Traverse City	2.13	2.66	3.40	.....	4.00	2.56	2.35	1.23	1.53	2.85	2.73	1.22	.....
Trowbridge	2.10	2.12	4.36	3.59	3.48	2.79	2.54	1.43	2.78	3.73	2.87	2.37	34.16
Twin Falls	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.12	0.57	0.93	.....
Vassar	.....	.....	2.33	3.70	2.60	.....	.....	.....	.....	.....	.....	.....	.....
Victoria	1.31	2.56	1.33	3.25	2.55	5.68	1.45	2.14	3.54	0.94	2.51	1.16	28.42
Wasepi	1.40	0.78	4.87	4.25	5.97	2.60	1.97	1.68	1.95	3.46	2.45	1.50	32.88
Webber Dam	0.95	1.74	2.68	2.63	3.52	3.22	2.03	1.65	4.08	1.91	1.86	0.76	27.03
Wellston	1.08	6.75	3.17	2.69	2.74	7.49	5.39	1.81	7.82	2.69	3.23	0.52	45.38
West Branch (near)	0.64	5.83	2.31	3.32	2.87	4.71	5.02	3.85	3.59	2.04	2.22	1.16	37.56
Williamston	.....	.....	2.32	2.61	1.93	.....	.....	.....	.....	.....	.....	.....	.....
Whitefish Point	.....	.....	.....	3.07	3.56	3.18	6.28	1.46	1.60	2.65	2.92	3.13	.....
Ypsilanti	1.24	1.03	3.84	3.47	2.67	2.26	1.59	1.53	2.70	2.00	1.02	1.53	24.88

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Minnesota.													
Ada	0.44	1.23	0.64	1.97	5.55	3.16	3.69	1.83	1.14	0.08	3.43	0.99	24.15
Ah-Gwah-Ching [1]	0.31	2.14	0.30	2.88	2.45	2.78	0.76	1.57	1.83	0.81	3.83	1.17	20.83
Albert Lea	0.67	1.77	0.80	3.67	3.05	1.85	3.33	1.58	1.18	1.30	1.94	0.30	21.44
Alexandria	0.32	1.02	0.91	1.28	3.74	2.23	0.57	0.60	1.55	T.	5.41	0.15	17.78
Angus	0.35	1.02	0.92	0.74	3.68	1.67	3.74	1.83	4.09	0.08	2.45	0.87	21.44
Argyle	0.52	1.07	1.17	0.50	4.56	2.60	3.44	1.08	4.73	0.13	2.11	1.11	23.02
Artichoke Lake	0.40	1.47	1.00	1.49	3.40	1.24	0.51	1.06	1.04	0.66	3.44	0.03	15.73
Baudette	0.17	0.75	1.85	1.04	2.90	2.19	4.59	3.57	1.91	0.77	2.33	1.21	23.28
Beardsley	1.70	1.50	0.48	1.72	2.49	1.50	0.93	0.62	1.08	0.59	3.25	.....	.....
Bemidji	0.22	1.23	1.15	3.08	1.76	.....	1.69	1.65	3.26	1.43	3.03	1.11	.....
Bird Island	0.59	2.20	1.57	0.57	1.85	3.13	0.47	1.49	1.02	2.02	2.54	0.14	17.59
Brainerd	0.41	4.65	2.29	2.08	1.60	2.19	.....	1.86	0.82	2.09	3.74	0.22	.....
Campbell	0.62	3.52	0.72	3.94	1.91	2.74	1.36	0.98	0.87	0.56	4.03	0.55	21.80
Canby	1.15	2.77	0.51	1.07	2.10	2.15	4.69	0.74	0.17	0.68	3.46	0.36	19.85
Cass Lake	1.40	1.90	1.00	3.39	1.46	2.81	0.99	1.14	2.33	0.72	3.99	0.67	21.80
Centerville	0.30	2.54	1.46	1.19	1.95	4.65	1.66	2.21	1.63	0.69	4.15	0.30	22.73
Chatfield	0.88	2.62	1.39	3.04	4.44	2.96	3.68	2.13	2.54	1.06	2.52	0.53	27.79
Cloquet	0.79	4.45	2.61	2.47	3.51	3.76	2.17	1.75	2.84	0.95	3.97	1.48	30.75
Collegeville	0.39	1.80	1.21	1.21	2.62	3.00	1.39	1.02	0.72	1.45	3.81	0.23	18.85
Crookston	0.65	1.40	1.75	0.95	6.65	1.77	3.45	1.20	1.65	T.	2.65	1.75	23.87
Crookston (Experiment Farm)	0.21	0.38	1.04	1.24	6.97	2.41	3.08	1.97	1.08	0.24	3.69	0.67	22.98
Detroit	0.63	3.86	1.19	3.35	2.51	5.48	2.03	0.71	1.42	0.46	3.65	2.15	27.44
Duluth	0.51	4.24	2.60	2.83	3.28	3.97	2.30	2.01	2.23	0.56	3.57	0.90	29.00
Fairmont	0.24	1.54	0.95	1.93	1.29	3.47	3.14	2.19	1.35	2.50	4.28	0.25	23.13
Faribault	0.39	1.30	0.94	1.83	2.55	.....	4.03	2.39	1.74	0.63	3.62	0.05	.....
Farmington	1.10	1.10	0.75	2.55	3.38	2.65	1.55	0.65	.....	.....	.....	0.20	.....
Fergus Falls	0.84	3.08	0.58	3.78	2.25	2.75	1.15	1.78	0.71	0.43	4.65	0.83	22.83
Fort Ripley	0.54	1.65	0.74	1.73	1.42	3.26	0.78	2.14	1.21	0.75	4.54	0.57	19.33
Fosston	0.05	1.30	1.40	1.33	2.70	3.27	1.94	1.72	2.86	0.24	2.14	1.29	20.24
Golden Valley	0.20	0.63	1.15	0.91	4.71	1.75	3.33	0.93	4.82	0.32	2.56	1.82	23.13
Gonvick (near)	.....	.....	.....	1.14	4.28	2.61	1.83	2.13	2.39	0.68	1.61	0.95	.....
Grand Marais	0.13	2.10	1.00	0.78	2.58	3.90	5.35	1.00	1.10	.....	.....	.....	.....
Grand Meadow	1.01	2.80	1.72	4.19	4.49	3.22	4.80	2.38	2.76	1.97	2.20	0.26	31.80
Grand Rapids	0.35	3.72	0.97	1.22	2.66	4.20	0.92	1.89	3.28	0.95	4.68	1.42	26.26
Grygla (near)	0.69	1.11	1.34	1.01	3.30	1.45	2.90	1.42	3.11	0.21	1.80	2.38	20.72
Gull Lake Dam	0.41	0.92	1.81	2.60	2.50	2.51	0.45	0.97	1.03	2.09	3.48	0.28	19.05
Hallock	0.23	0.38	0.80	0.25	4.12	3.06	2.67	0.91	4.86	0.20	2.37	0.73	20.58
International Falls	0.30	1.10	1.00	.....	2.75	3.49	2.21	2.73	1.49	1.00	2.20	1.80	.....
Itasca State Park	0.35	1.80	0.51	3.82	1.46	3.19	2.56	3.10	2.31	0.65	3.71	1.40	24.86
Leech Lake Dam	0.42	1.65	1.33	2.48	2.36	4.77	1.55	1.68	3.03	2.18	3.37	1.10	25.32
Little Falls	0.80	3.70	0.95	1.24	2.30	3.70	0.97	1.65	0.58	0.22	.....	0.67	.....
Luverne	.....	.....	0.94	1.02	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lynd	1.00	2.58	0.38	0.15	2.76	2.64	3.18	0.42	0.17	1.33	3.48	0.14	18.23
Mankato	.....	.....	.....	2.75	3.71	2.30	2.40	2.53	1.86	1.52	5.15	0.18	.....
Mapleplain	0.85	3.72	2.14	1.56	2.34	3.70	1.69	1.76	2.45	1.33	3.93	0.18	25.65
Meadowlands	0.30	3.19	1.49	2.32	3.10	3.37	1.38	2.20	2.45	0.90	3.47	0.72	24.89
Milaca	0.58	3.12	0.70	0.74	2.03	4.83	0.40	1.86	0.78	1.62	3.10	0.08	19.94
Milan	0.78	2.70	0.89	1.19	2.96	2.06	1.31	3.41	1.26	0.72	4.02	0.18	21.48
Minneapolis, Weather Bureau	0.83	3.25	1.60	1.35	2.94	5.63	1.67	1.66	2.16	1.21	3.57	0.15	26.07
Minneapolis (No. 1)	0.78	3.66	1.59	1.48	2.98	5.47	1.57	1.85	2.37	1.08	4.04	0.16	27.03
Montevideo	0.93	2.12	1.07	0.84	3.83	2.07	0.58	1.53	1.21	1.19	3.59	0.11	19.05
Moorhead	0.42	0.72	1.30	1.85	3.94	2.93	1.65	0.74	0.66	0.16	2.83	0.60	17.80
Mora	0.51	3.18	2.43	1.76	2.64	3.59	1.04	2.02	2.39	1.17	4.10	0.46	25.29
Morris	1.57	3.20	0.99	1.24	3.60	0.99	3.17	0.84	1.00	0.47	3.20	0.81	21.08
New London	0.57	2.25	1.04	1.39	2.37	2.28	0.72	3.88	1.21	1.55	3.10	0.02	20.38
New Ulm	1.34	2.28	0.77	1.30	3.51	1.89	1.93	3.24	1.40	1.59	4.71	0.35	24.31
Norden	1.44	3.54	2.58	2.29	1.93	2.91	1.63	1.08	3.52	0.84	2.54	3.10	28.00
Park Rapids	0.35	1.67	1.14	3.14	2.37	2.93	0.74	1.42	2.88	0.46	4.34	1.03	22.47
Pine River Dam	0.50	1.58	1.88	2.72	3.14	3.13	0.90	2.26	1.58	2.23	3.54	0.46	23.92
Pipestone	0.60	1.85	0.45	T.	2.14	3.53	2.40	1.35	0.71	0.99	2.94	0.40	17.36
Pokegama Falls	0.41	1.30	1.20	2.13	2.82	3.17	0.95	1.28	2.84	1.88	3.59	0.57	22.14
Red Lake	0.57	1.47	0.61	1.17	3.13	2.01	3.14	2.57	3.68	0.37	2.13	1.25	22.10
Red Lake Falls	.....	.....	.....	.....	.....	1.18	3.79	1.44	1.33	0.12	2.25	1.85	.....
Red Wing	.....	.....	1.58	3.56	3.68	3.91	5.20	1.78	1.96	0.90	3.62	.....	.....
Redwood Falls	0.73	2.12	1.23	0.48	2.98	2.64	1.00	1.53	0.40	1.35	3.24	0.19	16.99
Reeds	.....	.....	0.68	1.81	3.98	2.26	3.85	2.13	2.44	1.59	3.56	.....	.....
Roseau	0.13	0.56	1.17	0.79	5.62	2.45	3.64	3.59	4.06	0.20	2.35	1.06	25.62
St. Charles	0.90	2.71	1.53	3.57	4.52	2.04	3.97	1.18	2.57	1.01	2.84	.....	.....
St. Cloud	1.88	2.94	1.39	1.25	2.01	4.50	0.26	1.16	0.74	2.37	4.16	0.20	23.46
St. Paul	0.90	3.69	1.41	1.55	2.48	4.61	2.32	1.31	1.82	1.08	3.70	0.18	25.05
St. Peter	1.05	1.43	1.08	2.90	2.53	2.09	1.56	2.00	1.57	2.00	4.13	0.44	22.78
Sandy Lake Dam	0.82	1.57	1.04	3.10	2.90	3.39	3.53	3.10	1.80	2.43	3.72	0.40	27.80
Taylors Falls	0.30	1.66	1.80	2.02	2.46	6.18	2.28	1.78	2.17	0.53	3.48	T.	24.66
Thief River Falls	0.32	0.73	1.27	1.05	6.00	1.15	3.81	1.59	5.43	0.25	1.98	0.85	24.43
Tracy	0.43	0.87	1.09	0.01	2.53	2.59	1.89	1.04	0.13	1.67	2.91	0.15	15.31
Two Harbors	0.48	4.75	1.55	1.75	3.72	3.56	2.02	0.96	2.97	0.36	3.27	0.66	26.05
University Farm	.....	2.09	1.55	.....	2.86	6.76	1.73	1.55	1.57	0.82	3.38	0.48	.....
Virginia	0.37	1.40	1.27	1.73	3.53	3.06	2.09	2.87	2.26	0.72	2.33	1.12	23.35
Wadena	0.71	3.37	.....	.....	.....	.....	.....	.....	.....	0.80	4.75	0.46	.....
Warren	.....	.....	.....	0.62	4.35	1.60	2.91	1.59	4.00	T.	1.98	.....	.....
Warroad	0.55	0.94	1.38	0.73	4.90	2.13	3.83	1.80	3.32	0.54	2.35	1.41	23.88
Waseca	1.33	1.91	0.76	3.80	3.46	2.00	2.72	1.84	1.42	2.13	2.45	0.20	24.02
Wheaton	.....	.....	.....	.....	.....	.....	1.75	0.70	1.03	0.27	3.80	0.21	.....
Willmar	0.17	4.89	0.91	0.72	1.52	2.58	0.55	3.59	1.01	1.48	2.46	0.09	19.97
Winnebago	0.80	1.50	0.54	4.06	3.63	3.05	3.26	1.36	1.15	1.15	3.77	0.50	24.77
Winnibigoshish	0.52	1.05	1.17	2.53	2.58	3.84	1.12	1.48	3.05	1.79	3.13	0.72	22.98
Winona	0.91	2.97	1.31	3.59	4.63	2.88	5.18	3.32	3.09	1.22	3.83	0.57	34.10
Worthington	0.70	0.78	1.08	1.48	2.15	2.58	4.49	1.33	0.39	1.82	3.57	0.30	20.67
Zumbrota	0.44	1.34	2.21	3.34	4.26	2.38	1.88	1.60	2.09	1.69	2.98	0.23	24.44
Mississippi.													
Aberdeen	7.65	6.97	11.00	7.80	3.94	3.41	6.05	9.43	0.12	0.83	3.50	9.25	69.95
Agricultural College	5.53	6.87	10.66	5.68	3.96	3.01	1.32	3.07	0.40	2.21	4.03	6.32	53.06
Anguilla	8.50	8.51	7.13	7.30	5.53	5.47	.....	1.85	1.05	1.20	3.93	5.60	.....
Austin	2.69	4.05	8.86	5.26	5.52	1.79	4.83	1.23	1.40	2.69	1.93	6.23	46.48

[1] Name changed from State Sanatorium.

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
***Mississippi*—Continued.**													
Batesville	5.11	5.65	10.18	5.95	5.56	2.85	2.42	1.52	1.59	1.43	5.73	7.56	55.55
Bay St. Louis	7.08	5.35	10.88	8.03	7.88	6.14	3.70	8.03	3.30	3.11	3.00	7.73	74.23
Biloxi	.....	4.11	8.15	.....	8.25	3.16	8.69	6.23	5.33	1.36	2.91	5.45	.....
Booneville	6.07	6.02	9.79	8.08	5.66	1.94	4.66	1.27	0.69	1.23	4.70	8.55	58.66
Brookhaven	6.21	6.48	7.13	4.79	4.59	6.37	5.08	6.89	0.80	1.74	2.08	6.43	58.59
Canton	6.36	7.85	10.71	4.70	3.42	5.60	3.89	4.73	0.79	1.33	3.56	9.99	62.93
Charleston	4.30	6.74	9.10	5.43	.....	.....	.....	.....	.....	.....	.....	.....	.....
Clarksdale	4.58	5.19	10.10	5.92	4.83	1.15	2.78	0.39	3.54	1.48	5.12	6.24	51.32
Cleveland	.....	.....	.....	.....	.....	.....	4.41	1.57	1.96	2.01	4.81	6.97	.....
Collins	9.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7.69	.....
Columbia	8.51	6.05	7.29	1.60	7.14	7.54	4.01	4.97	1.41	1.31	2.71	8.52	61.06
Columbus	5.91	5.81	12.19	3.78	3.71	4.12	4.94	4.03	2.20	1.62	5.49	8.16	58.96
Corinth	3.66	5.51	10.64	5.27	7.40	1.94	6.17	2.13	0.57	0.98	4.12	7.23	55.62
Crystal Springs	7.67	8.11	11.45	4.93	4.55	4.96	8.71	3.13	0.67	3.15	2.74	6.55	66.82
Duck Hill	6.25	7.07	8.09	8.12	8.99	2.36	.....	.....	0.41	2.44	4.00	5.80	.....
Edinburg	7.63	7.59	10.81	5.82	6.83	2.88	3.85	2.65	0.67	2.49	3.29	11.93	66.44
Enterprise	9.85	5.93	8.62	3.67	5.30	4.61	5.98	1.49	2.65	1.60	3.01	4.63	57.34
Fayette	6.42	4.91	10.95	4.39	3.84	5.53	5.88	6.57	3.56	1.45	5.74	7.10	66.14
Fruitland Park	5.23	3.35	10.35	2.90	8.79	.....	5.37	1.25	0.85	0.62	.....	3.19	.....
Fulton	6.04	5.82	10.37	5.49	5.01	1.62	2.56	3.01	0.25	0.82	1.58	4.72	47.29
Greenville	6.02	7.16	12.99	4.94	7.29	8.51	3.09	0.93	1.72	0.41	5.90	7.23	66.19
Greenwood	6.77	7.39	9.16	7.32	7.32	2.27	3.51	1.74	1.17	1.20	4.96	6.22	59.03
Grenada	5.70	10.18	6.85	5.70	4.75	2.10	2.14	1.05	.....	.....	.....	.....	.....
Hattiesburg	7.96	4.24	7.95	2.83	6.59	6.07	4.98	2.46	1.18	0.66	3.03	5.67	53.62
Hernando	2.15	3.23	9.56	4.71	4.64	1.15	3.20	1.46	1.90	0.77	3.94	4.41	41.15
Hickory	7.96	8.77	9.00	6.43	3.82	4.94	10.35	0.85	0.31	4.14	2.76	7.03	66.36
Holly Bluff	6.79	9.81	8.52	5.27	5.10	2.44	7.93	1.75	0.43	0.55	5.03	6.49	60.29
Holly Springs	3.46	4.93	11.83	6.14	9.49	3.25	3.95	1.83	0.87	1.42	5.14	8.65	60.96
Jackson	6.03	5.71	10.72	3.69	3.01	2.75	5.91	4.39	0.89	2.09	2.70	7.22	55.11
Kosciusko	6.16	6.95	10.40	5.18	3.92	1.95	3.26	6.17	0.43	2.05	2.55	6.61	55.63
Lake	6.90	6.07	10.29	4.63	4.48	6.88	5.19	3.94	1.00	2.29	3.17	6.17	61.01
Laurel	5.00	6.02	8.61	4.47	4.59	.....	.....	.....	.....	0.60	1.76	5.99	.....
Leakesville	7.52	5.69	11.23	2.69	12.36	4.00	6.23	7.02	3.98	1.76	1.84	7.89	72.21
Louisville	6.54	6.35	11.95	5.22	5.11	3.11	3.55	2.54	0.00	3.07	2.70	8.89	59.03
Macon	7.11	5.75	10.65	4.81	5.48	4.91	3.76	3.31	0.38	2.56	3.55	11.11	63.38
Magnolia	8.81	6.38	7.60	2.13	7.11	3.59	4.57	3.75	2.01	1.80	5.12	8.96	61.83
Meadville	.....	6.77	11.16	7.47	8.43	.....	.....	.....	.....	2.10	2.73	7.90	.....
Meridian	8.49	9.12	6.20	4.20	5.37	4.45	5.51	2.67	0.16	2.30	2.54	5.73	56.74
Merrill	8.74	5.27	14.08	3.04	10.29	2.66	4.96	1.27	2.65	0.80	2.16	6.74	62.66
Monticello	9.62	6.58	7.76	3.62	6.07	3.12	5.38	7.70	0.75	0.91	3.31	6.83	61.65
Moorhead	6.48	7.88	6.00	6.19	7.82	4.79	0.86	3.64	1.17	1.68	5.00	5.74	57.85
Myrtle	.....	.....	.....	10.60	4.00	1.65	3.45	1.75	0.26	0.60	.....	.....	.....
Natchez	6.62	4.62	10.69	4.74	3.20	3.74	3.34	5.37	2.39	1.21	7.55	7.81	61.28
Okolona	6.02	5.95	8.12	5.09	3.65	2.14	3.26	1.72	0.48	0.38	5.14	7.45	50.00
Pearlington	.....	.....	14.88	5.50	6.38	7.34	4.34	7.28	3.91	2.17	6.37	7.01	.....
Pontotoc	4.67	4.05	11.02	7.40	5.15	3.28	3.00	1.77	T.	0.95	2.85	5.97	50.11
Poplarville	6.29	5.20	9.52	3.83	7.31	3.00	7.24	3.04	1.79	2.83	3.14	8.78	61.97
Port Gibson	7.14	6.20	15.01	4.11	2.96	4.68	4.32	4.28	0.42	3.95	5.58	10.24	68.89
Rosedale	4.82	5.57	12.48	5.12	7.46	3.70	1.57	1.52	2.60	1.17	4.66	4.51	55.18
Scott	4.67	7.92	9.04	4.96	7.92	4.40	1.35	1.67	1.60	1.17	4.90	5.97	55.57
Shubuta	11.03	6.93	8.47	2.49	5.84	6.13	5.83	1.83	0.76	1.61	3.48	6.33	60.73
Stoneville	5.58	9.41	7.33	3.63	7.90	5.24	4.22	1.81	1.30	0.40	3.73	6.73	57.28
Swan Lake	5.01	7.32	10.54	4.98	8.35	2.67	.....	1.01	1.02	1.90	5.36	7.13	.....
Tchula	6.65	8.15	.....	7.40	4.30	2.85	6.19	4.31	0.59	0.95	2.45	.....	.....
Tupelo	5.22	5.45	8.25	7.88	5.72	1.27	3.03	0.68	0.48	0.87	2.66	5.97	47.48
University	6.17	3.90	11.92	6.30	4.70	2.84	3.12	0.10	2.30	1.25	4.07	8.15	51.82
Utica	6.20	8.20	9.24	3.87	2.70	5.36	7.97	6.50	1.28	1.48	3.20	7.93	63.93
Vicksburg	6.46	9.65	8.37	2.92	4.24	3.55	4.47	3.96	0.64	1.33	3.55	7.40	58.54
Water Valley	5.60	7.17	10.85	7.05	7.20	.....	.....	0.25	1.50	1.55	3.65	7.12	.....
Waynesboro	9.00	7.03	9.51	2.35	7.17	3.71	7.67	3.00	0.87	1.60	2.31	5.57	59.79
Woodville	7.76	6.98	12.58	4.51	6.10	3.38	4.00	3.41	1.88	4.44	4.16	7.82	67.02
Yazoo City	6.20	7.93	10.64	6.46	4.67	2.46	7.33	4.10	2.72	0.44	4.56	6.14	63.65
Missouri.													
Amoret	1.20	1.09	7.03	8.60	3.27	1.19	4.82	0.90	3.95	3.30	5.02	0.85	41.22
Appleton City	1.66	0.93	7.48	11.45	2.62	1.71	6.48	0.81	4.80	1.29	3.91	1.84	44.98
Arcadia	1.22	1.91	7.08	6.05	2.24	1.33	2.53	3.36	0.94	2.12	3.24	4.96	36.98
Avalon	1.53	0.98	4.85	3.75	3.35	1.85	7.50	3.10	3.23	1.95	3.45	0.40	35.94
Bethany	0.44	1.79	3.10	1.72	4.32	3.25	12.84	3.29	3.15	2.32	5.65	0.20	42.07
Birchtree	1.42	2.18	7.21	4.55	1.95	1.58	4.30	2.02	0.69	1.35	4.02	4.35	35.72
Bolivar	1.41	1.50	5.97	7.43	5.37	0.28	7.13	0.13	2.30	1.53	4.69	1.31	38.94
Boonville	1.59	1.06	7.37	7.32	3.14	2.60	5.36	2.98	5.26	5.12	3.16	1.39	46.75
Brunswick	0.59	1.53	4.75	6.58	4.23	1.61	10.30	1.74	3.95	0.99	4.51	0.81	41.59
Cape Girardeau	2.22	2.46	7.80	3.87	2.94	3.01	7.57	2.82	4.04	2.95	3.07	3.49	46.24
Caruthersville	2.57	3.22	13.29	4.35	3.06	1.81	7.75	0.91	2.95	2.80	3.84	5.10	51.65
Chillicothe	.....	.....	4.51	3.44	3.46	1.69	6.79	3.32	4.34	1.49	3.68	0.28	.....
Clifton Hill	0.42	1.32	5.04	5.03	1.82	0.92	7.04	2.81	4.14	1.26	2.83	0.75	33.38
Clinton	2.19	1.94	5.68	10.81	3.16	0.45	4.07	1.18	5.60	1.40	3.85	1.90	42.23
Columbia	1.53	1.23	8.46	9.93	4.34	2.01	3.49	3.30	3.79	1.50	2.37	1.38	43.33
Conception	0.36	1.33	2.73	1.98	5.50	2.15	8.62	1.80	3.86	3.59	3.80	0.03	35.75
Dean	1.77	2.50	7.79	6.80	6.25	2.37	6.74	1.24	1.58	1.67	6.75	2.78	48.24
Doniphan	2.72	4.25	7.72	4.50	2.79	1.67	4.28	3.84	0.15	1.08	6.49	5.25	44.74
Downing	0.67	1.41	1.45	2.84	3.81	2.97	9.07	3.13	3.06	2.65	3.47	0.52	35.05
Edgerton	0.88	1.85	4.01	2.93	5.49	1.43	5.31	0.39	3.46	2.13	3.14	0.08	31.10
Eldon	0.93	0.86	7.52	12.59	2.58	1.28	4.09	2.12	2.11	1.85	2.65	1.16	39.74
Farmington	1.17	1.92	6.75	6.67	2.76	3.31	2.87	2.10	1.21	3.43	2.71	4.83	40.73
Fayette	2.55	1.27	6.74	7.61	2.58	1.61	5.13	2.00	4.60	2.20	3.10	0.51	39.90
Fulton	2.75	1.10	8.81	11.92	3.07	0.44	2.43	2.14	5.30	2.80	1.11	1.93	43.80
Gano	1.12	2.13	7.95	8.27	1.76	3.57	3.18	4.06	1.23	2.98	3.28	5.14	44.67
Goodland	0.92	2.44	7.35	7.93	1.38	2.48	2.47	5.01	0.44	3.82	3.04	4.97	42.25
Gorin	.....	.....	.....	3.49	3.71	3.24	6.22	2.41	3.96	1.02	3.37	0.33	.....
Grant City	0.90	1.05	4.82	1.90	5.56	2.60	17.68	4.16	5.63	3.83	4.58	T.	52.71
Greenville	.....	.....	8.36	8.22	2.23	0.83	2.58	4.89	1.65	0.72	3.95	4.80	.....
Hannibal	1.56	1.18	6.25	5.45	2.44	0.96	2.26	2.12	3.54	1.83	3.36	0.38	31.33
Harrisonville	0.63	1.29	4.58	7.89	3.05	2.69	4.32	0.93	8.22	2.03	3.65	0.29	39.57
Hermann	1.19	1.12	6.78	11.96	1.76	0.87	3.44	3.67	3.07	0.95	3.00	2.70	40.51

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Missouri—Continued.													
Hollister	0.84	2.25	5.25	4.96	4.55	1.00	4.55	1.85	1.15	3.00	4.65	4.00	38.05
Houston	1.06	3.15	6.87	6.13	1.24	0.67	5.97	0.81	1.23	3.32	3.49	2.95	36.89
Jackson	1.95	2.36	8.63	4.70	2.23	3.53	6.70	3.87	5.41	2.93	2.71	2.13	47.15
Jefferson City	0.92	1.23	11.51	13.89	3.88	2.19	3.52	3.32	3.37	1.59	2.68	2.52	50.62
Jerome	1.41	1.95	7.65	5.12	1.53	0.63	5.08	2.42	1.21	1.97	2.91	2.61	34.49
Joplin	0.94	1.42	7.19	6.53	5.41	1.93	7.69	2.24	1.50	3.01	4.72	0.69	43.27
Kansas City	0.61	1.49	5.73	4.06	2.83	1.13	4.66	0.81	4.50	2.31	3.17	0.22	31.52
Kidder	1.45	2.01	4.57	2.72	3.10	2.11	7.08	2.09	4.35	1.44	5.59	0.30	36.81
Kirksville	1.18	0.99	3.08	2.69	5.32	0.96	11.95	5.42	3.25	1.92	3.26	0.85	40.87
Koshkonong	2.46	3.49	7.57	4.47	1.76	0.99	3.86	3.20	0.63	2.33	3.74	5.21	40.61
Lamar	0.75	1.65	8.22	13.06	2.95	2.14	7.87	2.67	4.13	1.47	4.42	1.34	50.67
Lamonte	1.54	1.27	7.04	7.98	3.40	0.87	4.80	1.80	6.18	2.14	2.77	0.83	40.62
Lebanon	1.55	2.01	6.75	5.43	1.92	0.90	3.86	1.21	3.26	1.63	2.83	2.42	33.77
Lexington	0.32	1.60	3.81	6.40	2.60	1.58	5.02	0.75	2.37	0.89	3.26	0.74	29.34
Liberty	0.41	1.65	5.05	4.52	2.38	1.66	5.46	2.24	6.58	2.26	3.15	0.25	35.61
Lockwood	1.21	1.63	5.85	7.94	3.51	0.83	6.16	2.54	1.73	1.22	4.78	1.67	39.07
Louisiana	2.21	1.32	6.39	8.48	2.22	1.16	3.52	2.22	3.10	2.25	4.27	0.97	38.11
Macon	0.85	2.07	5.66	4.43	3.15	1.59	6.10	3.84	4.56	0.75	2.55	0.21	35.76
Marble Hill	0.74	3.24	9.17	6.86	2.16	1.62	5.46	2.64	1.32	1.68	3.74	4.26	42.89
Marshall	1.78	1.47	5.75	6.95	6.48	2.05	5.20	2.44	6.94	1.87	4.66	0.80	46.39
Maryville	0.66	1.26	3.28	2.40	4.43	2.06	15.21	2.30	4.86	2.46	4.91	0.22	44.05
Mexico	1.61	1.03	8.58	7.11	1.67	0.47	3.78	3.56	4.10	1.99	3.24	2.10	39.24
Mountain Grove	1.04	2.61	6.20	7.26	3.21	1.57	3.77	1.00	1.55	1.89	3.14	3.60	36.84
Neosho	1.83	2.01	7.45	6.50	4.19	3.52	6.75	1.81	2.52	1.47	5.55	1.96	45.06
Nevada	6.15	1.08	8.26	11.32	3.03	1.25	6.02	1.83	4.86	1.17	4.44	0.61	50.02
New Madrid	2.29	3.38	11.03	4.35	4.58	1.34	4.25	2.31	3.85	2.46	2.72	5.15	48.31
Oregon	0.45	1.00	3.14	2.66	6.86	2.33	5.76	1.89	5.55	3.07	3.64	0.05	36.40
Osceola	1.43	0.98	7.07	11.44	3.10	0.13	5.16	0.78	6.53	1.20	3.59	1.57	42.98
Pacific	1.12	1.26	5.47	8.01	1.56	1.41	2.83	0.80	2.32	2.64	3.08	4.62	35.12
Palmyra	1.90	1.61	5.80	5.38	1.52	2.77	3.05	1.73	5.04	1.15	6.64	0.43	37.02
Parma	1.82	2.61	9.05	4.86	2.38	2.68	2.82	5.21	2.19	1.73	3.81	5.04	44.22
Patton (near)	0.93	2.25	8.38	4.71	1.14	2.28	3.20	2.18	0.48	2.55	3.84	3.70	35.64
Poplar Bluff	2.02	4.28	6.90	4.45	1.01	2.04	3.28	2.33	0.53	0.95	4.10	4.80	36.69
Rolla	1.23	1.98	6.98	4.81	2.81	0.53	5.01	4.92	0.80	2.50	3.21	2.01	36.79
St. Catharine	1.03	1.20	3.82	2.85	3.91	1.73	10.27	3.76	3.81	1.87	3.07	0.57	37.89
St. Charles	0.59	0.84	5.21	9.32	1.96	1.39	1.09	1.70	2.48	1.42	2.11	3.67	31.78
St. Joseph	0.55	1.58	4.08	2.54	6.56	1.75	4.16	1.53	3.09	2.72	4.99	0.16	33.71
St. Louis (Weather Bureau)	0.74	1.52	4.84	7.40	1.26	0.80	2.42	1.79	2.49	1.74	2.36	4.98	32.34
St. Louis (2)	0.62	1.17	3.02	6.09	1.06	1.29	1.92	1.14	2.40	2.40	2.82	5.22	29.15
Seligman	1.49	1.97	5.49	4.17	5.01	1.17	6.41	1.31	1.38	0.51	5.05	3.71	37.67
Seymour	0.75	2.63	5.21	5.80	2.15	0.94	4.58	1.22	1.03	1.91	2.88	2.93	32.03
Shelbina	.....	1.35	5.96	5.22	3.17	1.40	3.83	2.44	.....	1.05	3.70	.....	.....
Springfield	1.38	2.02	6.45	4.94	3.94	0.66	6.15	2.47	0.95	1.60	4.14	2.07	36.77
Steelville	1.93	1.76	6.75	7.07	1.57	2.65	6.09	5.14	2.53	2.45	2.87	4.25	45.06
Steffenville	1.02	1.37	4.37	3.19	2.52	1.74	5.55	1.75	3.68	1.70	2.43	0.50	29.82
Tarkio	0.76	1.47	2.62	3.42	2.98	2.04	5.85	3.10	3.56	2.48	4.54	0.30	33.12
Trenton	0.79	1.46	3.89	3.29	3.95	2.18	15.89	3.10	4.04	3.18	4.58	0.35	46.70
Tuscumbia	0.83	1.29	8.17	12.75	2.21	0.94	3.68	2.32	1.80	2.45	2.58	1.97	40.99
Union	1.15	1.49	5.24	9.72	2.49	1.17	3.50	2.19	1.62	1.74	3.20	4.20	37.71
Unionville	0.72	1.47	2.93	5.05	4.71	2.85	10.80	5.10	2.75	2.86	4.60	0.50	44.34
Valley Park	0.91	1.38	4.76	8.06	1.29	0.52	2.86	2.13	2.50	1.46	3.63	4.96	34.46
Vandiser	1.85	3.83	7.97	4.18	2.64	1.06	2.45	6.22	0.86	2.80	3.40	5.14	42.40
Warrenton	1.41	1.28	8.58	10.79	2.29	0.18	2.04	1.74	2.10	1.70	3.32	3.14	38.57
Warsaw	1.70	2.44	9.49	14.34	3.02	0.48	9.65	1.22	7.05	1.50	4.26	1.44	56.59
Waverly	0.38	1.16	5.69	5.43	2.49	0.83	7.07	2.45	3.95	1.11	3.64	0.37	34.57
Montana.													
Adel	1.26	1.66	1.99	5.92	4.46	4.95	3.53	2.26	1.59	1.95	2.33	1.82	33.72
Agricultural College	0.60	0.72	0.80	1.67	2.85	2.86	2.49	1.60	0.95	0.93	1.47	0.80	17.74
Anaconda	0.53	0.41	0.78	1.95	1.51	3.03	0.74	2.49	0.45	.....	0.61	1.27	.....
Augusta	0.43	0.43	0.83	2.02	2.25	2.01	3.34	1.20	0.36	0.16	0.40	0.44	13.87
Babb	1.20	0.60	0.64	3.82	2.77	0.48	3.36	0.79	0.26	1.15	0.51	1.67	17.25
Baker	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.06	1.01	1.28	.....
Ballantine	0.55	0.17	0.03	3.31	2.73	3.66	1.51	0.35	0.44	0.62	0.40	0.66	14.43
Belton	2.82	1.88	0.70	2.24	.....	0.59	2.19	1.29	1.27	2.59	1.45	6.53	.....
Bennett Farms	0.48	0.33	0.32	0.58	2.50	.....	0.88	1.88	0.47	.....	.....	.....	.....
Biddle	0.31	0.20	0.09	1.63	4.43	7.54	2.72	.....	0.19	1.57	1.11	0.47	.....
Big Ox	0.40	0.56	2.77	2.24	2.14	3.39	1.51	2.34	0.37	0.35	1.30	2.21	19.58
Big Sandy	0.44	0.90	0.53	1.04	2.92	1.12	1.84	0.54	0.44	0.15	0.37	.....	.....
Bigtimber	0.82	0.56	0.24	2.79	1.97	1.90	2.25	0.45	T.	0.54	3.26	0.69	15.47
Billings	1.22	0.36	0.07	2.91	2.05	2.40	2.24	0.32	0.30	0.94	1.47	0.35	14.63
Brenner	0.46	0.88	0.91	2.24	1.43	1.19	0.75	1.77	0.10	T.	0.68	0.81	11.22
Bridger	0.17	0.24	0.60	2.58	2.40	1.86	0.38	0.88	0.00	1.63	0.95	0.16	11.83
Broadus	0.64	0.32	0.10	2.28	5.15	4.77	1.84	0.18	0.05	1.62	1.15	0.72	18.82
Browning	0.26	0.20	0.21	2.16	2.40	1.51	2.44	0.38	T.	1.18	0.14	0.62	11.50
Busby	0.84	0.30	0.21	1.74	2.51	2.27	1.34	0.85	0.08	0.78	0.99	0.99	12.90
Busteed	0.44	0.57	0.12	2.33	3.15	2.69	3.04	0.60	0.25	0.93	1.46	0.62	16.20
Butte	0.30	1.05	0.94	2.87	1.50	2.36	1.28	3.31	0.32	0.05	0.88	0.46	15.32
Canyon Ferry	0.15	0.28	0.37	1.11	2.52	3.01	1.19	1.07	0.59	0.20	0.27	0.34	11.10
Carter	0.16	0.34	0.53	1.16	1.61	1.45	2.05	1.08	0.68	0.10	0.06	1.20	10.42
Cascade	0.79	0.64	1.12	3.10	2.93	2.38	1.21	0.92	0.30	T.	0.76	1.14	15.29
Chinook	0.41	0.72	0.52	1.11	2.55	2.25	1.35	1.63	0.64	0.18	0.47	0.61	12.24
Choteau	0.07	0.15	0.26	1.67	2.19	0.88	2.84	0.43	0.32	0.05	0.30	0.38	9.54
Columbia Falls	1.03	1.09	0.20	3.01	0.89	1.09	1.26	1.06	1.19	1.40	0.90	2.38	15.50
Como	0.45	0.75	0.78	0.98	1.14	.....	.....	.....	.....	.....	.....	.....	.....
Conrad	0.33	0.20	0.50	2.89	2.83	0.75	2.42	1.83	0.30	0.03	0.10	0.10	12.28
Copper	0.76	0.73	0.52	1.17	1.94	3.00	1.35	1.68	1.39	0.76	0.72	1.29	15.31
Crow Agency	1.44	0.72	0.70	1.80	1.55	4.10	1.60	0.00	0.00	0.90	1.70	1.44	15.95
Culbertson	0.11	0.44	0.40	3.77	3.35	2.37	1.81	0.82	1.78	0.41	0.28	0.17	12.71
Cut Bank	0.29	0.32	0.30	2.02	2.63	0.94	2.36	1.01	T.	0.26	0.06	0.29	10.50
Dayton	0.54	0.49	0.69	2.00	1.16	1.19	1.42	1.42	0.69	0.68	0.82	1.41	12.51
Deer Lodge	0.24	0.28	0.47	1.94	2.90	3.07	2.20	2.10	1.41	T.	0.12	0.52	15.25
Dell	0.24	0.10	.....	0.62	0.98	.....	.....	.....	.....	.....	.....	.....	.....
Denton	0.53	0.73	0.43	0.90	1.57	2.89	1.62	1.23	0.85	0.42	0.52	0.73	12.42
Dillon	0.93	1.83	0.95	3.74	2.54	1.90	1.82	2.87	0.14	0.07	1.47	0.90	19.16
Dunkirk	0.27	0.21	0.38	1.79	3.75	0.70	2.64	1.76	0.20	0.09	0.03	0.40	12.22

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Montana—Continued.													
East Anaconda	0.67	0.56	1.19	2.47	2.05	3.89	0.88	2.58	0.46	0.17	1.04	1.35	17.31
Ekalaka	0.38	0.29	0.30	1.80	3.88	5.73	2.90	1.40	0.12	.....	0.49	0.14	.....
Ennis	0.72	0.12	0.56	1.22	2.06	1.50	2.06	3.00	0.50	.....	.....	0.44	.....
Findon	0.90	0.85	0.60	1.87	2.21	4.25	1.41	1.61	1.16	0.25	0.66	1.14	16.91
Flathead Creek	1.73	3.08	0.51	1.56	1.58	2.10	1.82	1.94	0.49	0.34	1.77	1.19	18.11
Flatwillow	0.34	0.41	0.15	1.07	2.79	3.81	1.19	0.69	0.80	0.44	0.77	0.65	13.11
Fortine	1.06	1.18	0.48	1.22	0.74	0.66	0.34	0.91	0.91	1.00	1.13	1.98	11.61
Fort Shaw	0.23	0.22	0.50	1.98	2.44	0.80	2.48	0.92	0.54	0.18	0.33	0.45	11.07
Foster	0.46	0.20	0.00	2.73	2.14	5.03	2.32	1.29	T.	0.35	1.48	0.79	16.79
Garland	.....	.....	.....	1.92	5.53	2.87	2.68	1.30	0.49	1.01	0.50	0.72	.....
Geraldine	1.17	0.72	0.98	1.49	2.71	1.40	1.14	1.20	0.59	0.68	1.11	1.10	14.29
Glasgow	0.50	1.22	0.45	1.07	4.30	1.75	2.32	2.37	0.75	0.04	0.26	0.15	15.18
Glendive	0.06	0.55	0.12	1.45	4.23	1.11	1.66	1.02	1.40	0.68	.....	0.79	.....
Goldbutte	0.33	0.48	0.31	1.87	1.79	1.44	1.75	1.96	0.28	0.21	0.04	0.31	10.72
Great Falls	0.79	0.65	1.13	2.47	3.05	1.39	1.75	0.63	0.85	0.22	0.41	1.32	14.66
Hamilton	.....	.....	.....	.....	0.73	3.17	0.84	3.69	.....	.....	.....	.....	.....
Harlowton	0.14	0.26	0.18	1.62	.....	3.06	1.70	1.07	.....	0.00	.....	0.18	.....
Haugan	2.09	2.35	2.84	1.78	1.28	0.64	2.01	0.66	0.83	0.82	2.03	6.00	23.33
Havre	0.42	0.70	0.43	1.11	2.47	0.82	2.76	1.70	0.68	0.09	0.54	0.53	12.25
Hays	0.58	0.75	0.14	1.30	4.02	.....	1.92	0.88	.....	.....	0.91	0.65	.....
Hebgen Dam	2.84	2.74	2.39	2.11	2.15	1.10	1.65	3.47	0.25	0.40	0.98	3.00	23.08
Helena	0.55	0.90	0.79	2.04	1.63	2.58	1.32	0.94	0.54	0.06	1.04	1.10	13.46
Hercules Ranch	0.50	0.59	0.61	3.17	6.15	1.36	3.18	1.39	0.01	0.98	0.41	0.42	18.77
Heron	4.32	3.57	3.29	3.23	1.32	0.58	0.94	1.21	1.53	2.16	3.15	8.10	33.40
Highwood	0.72	0.44	0.94	1.78	2.58	1.50	2.05	1.24	0.92	0.30	0.46	0.85	13.78
Hobson	0.48	0.67	0.24	2.39	1.71	3.85	1.70	0.85	0.66	0.90	0.87	0.90	15.22
Holter	0.15	0.22	0.69	2.02	3.27	2.91	1.50	0.36	0.69	0.18	0.40	0.47	12.86
Kalispell	0.74	0.60	0.77	1.86	0.76	0.54	0.81	0.76	0.52	1.05	1.06	1.50	10.97
Kinread	0.37	0.47	0.56	1.71	2.04	0.81	2.39	2.07	0.54	T.	0.24	0.33	11.53
Knobles Ranch	0.43	0.29	0.24	0.51	1.48	1.40	.....	.....	.....	0.04	0.12	0.37	.....
Knowlton	0.53	0.80	0.36	1.69	5.93	3.20	3.54	1.49	0.52	1.46	0.45	0.80	20.77
Lewistown	0.48	0.64	0.48	1.84	2.30	2.97	1.21	0.45	0.50	0.53	0.96	0.98	13.31
Libby	0.51	0.53	0.92	1.78	0.64	0.53	1.49	0.64	0.06	0.42	0.74	4.14	13.00
Livingston	.....	0.62	0.18	1.37	2.82	2.34	3.64	3.22	0.47	0.49	1.13	0.19	.....
Lonepine	.....	0.38	0.47	0.79	0.81	0.30	1.25	0.67	.....	0.12	0.52	.....	.....
Lustre	0.55	0.52	0.57	1.38	3.20	2.43	1.00	1.97	0.68	0.15	0.08	0.22	12.75
Lytle	0.56	0.77	0.66	1.88	1.61	1.06	2.01	2.04	0.43	0.14	0.50	0.32	11.98
Malta	0.16	0.52	0.15	1.40	2.70	2.91	2.21	1.43	0.41	0.01	0.18	0.33	12.41
Medicine Lake	0.30	.....	0.48	0.64	1.88	.....	2.16	1.48	1.40	.....	.....	.....	.....
Melstone	0.40	0.64	0.03	2.00	2.10	3.00	1.15	.....	0.01	0.02	.....	0.39	.....
Mildred	0.15	0.55	0.05	1.62	4.95	2.68	2.16	0.99	1.32	0.81	0.13	0.44	15.85
Miles City	1.00	0.84	0.52	2.13	4.75	1.53	2.17	0.48	0.68	0.52	0.44	0.80	15.86
Missoula	0.52	0.96	1.58	1.45	2.05	1.70	0.86	2.15	0.50	0.47	0.72	1.43	14.39
Norris	0.64	0.51	0.66	3.19	3.45	2.02	1.96	2.51	0.59	0.39	1.64	0.80	18.36
Outlook	.....	.....	.....	0.56	3.15	4.17	1.08	2.34	0.70	0.17	.....	.....	.....
Ovando	0.24	0.62	1.27	1.10	1.90	0.71	1.09	1.86	0.94	0.24	0.27	0.88	11.12
Paxton	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.14	0.15	0.18	.....
Philipsburg	0.36	0.47	1.44	2.57	2.20	2.66	0.97	1.49	0.89	0.10	0.62	.....	.....
Pinegrove	0.90	0.47	0.28	2.12	2.12	5.20	2.04	0.70	1.33	0.62	1.10	0.27	17.15
Plains	0.37	0.39	0.68	1.25	1.31	0.41	1.30	0.55	0.26	0.53	0.90	2.16	10.11
Plevna	0.30	0.93	0.36	0.87	4.18	4.62	3.39	0.61	0.26	1.29	0.39	1.21	18.41
Polson	0.93	.....	1.30	2.72	1.37	0.12	0.96	1.43	.....	.....	.....	.....	.....
Poplar	0.19	0.25	0.33	1.00	2.60	4.21	1.58	1.58	1.19	0.07	0.17	0.14	13.31
Red Lodge	0.76	0.58	0.41	3.79	3.90	2.06	3.10	1.43	0.25	1.45	2.98	0.41	21.12
Renova	0.21	0.44	1.57	4.07	2.19	1.37	2.13	2.08	0.32	0.00	0.59	0.32	15.29
Rock Springs	0.81	1.02	0.25	1.93	3.18	1.54	2.32	1.95	0.62	0.31	0.38	.....	.....
Roundup	0.81	0.47	0.16	1.59	2.54	3.76	1.64	1.45	0.20	0.57	1.17	0.42	14.78
Roy	0.10	0.20	0.07	.....	.....	3.29	1.70	0.81	T.	0.25	.....	.....	.....
Rudyard	.....	1.18	0.27	2.72	2.42	0.71	1.92	0.81	0.59	0.11	.....	.....	.....
St. Ignatius	0.95	0.78	1.36	1.88	1.38	0.57	1.07	0.85	0.66	0.48	1.09	1.92	12.99
Savage	0.15	0.23	0.25	0.53	3.45	1.45	1.35	1.28	2.47	0.53	0.26	0.29	12.24
Scobey	.....	.....	.....	.....	.....	.....	.....	1.69	0.57	0.26	.....	0.26	.....
Sentinel Butte Pass	.....	.....	.....	1.05	7.07	1.90	1.73	1.27	0.41	0.11	0.09	0.83	.....
Sidney	0.16	0.94	0.30	1.00	3.90	3.81	1.25	1.22	1.72	.....	.....	.....	.....
Snowbelt	.....	.....	.....	.....	4.23	3.31	2.04	0.76	0.24	0.20	0.54	0.89	.....
Springbrook	0.65	0.85	0.33	1.23	6.08	2.95	2.57	1.43	1.38	T.	0.46	1.30	19.23
Stevensville	0.27	0.84	1.04	1.03	1.68	1.66	0.76	1.55	0.81	0.23	0.96	1.59	12.42
Sula	.....	.....	.....	.....	.....	1.82	.....	.....	.....	.....	.....	.....	.....
Sun River Canyon	0.51	0.66	0.69	1.39	3.84	1.61	2.77	1.46	0.37	0.30	0.33	0.76	14.69
Sunset Orchard	0.45	1.95	2.01	1.61	2.25	2.37	0.70	1.66	0.93	0.20	0.38	0.60	15.11
Thompson Falls	1.06	1.18	1.05	1.31	1.46	1.06	1.13	0.76	0.57	0.79	1.88	3.05	15.30
Three Forks	0.60	0.85	0.48	2.62	2.06	1.62	2.00	1.79	0.81	0.31	.....	0.48	.....
Townsend	0.07	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Trout Creek	3.84	3.22	2.81	2.29	1.52	0.48	1.21	1.17	0.93	1.33	.....	5.28	.....
Upper Yaak River	1.09	0.98	1.28	1.71	1.34	0.44	0.62	0.92	1.71	3.14	1.31	2.85	17.39
Utica	0.65	1.28	0.37	2.40	2.20	3.98	2.13	1.07	0.55	0.65	1.11	0.83	17.22
Valentine	0.24	0.24	0.04	1.39	2.28	2.56	0.95	1.11	0.20	0.41	0.68	1.00	11.10
Valier	0.16	0.01	0.35	2.13	2.94	1.95	3.20	1.24	0.13	0.41	0.12	0.37	13.01
Vananda	0.74	0.40	.....	2.19	1.71	1.72	1.26	0.18	0.34	0.10	0.61	1.15	.....
Victor	0.16	0.48	1.14	1.01	1.52	1.35	0.40	1.72	0.64	0.10	1.29	.....	.....
Virginia City	0.50	0.45	0.52	1.57	2.30	1.62	1.36	3.10	0.71	0.65	0.35	0.35	13.48
Wheaton	0.65	0.71	0.45	1.88	2.48	4.23	1.53	0.12	0.51	0.21	0.85	0.40	14.02
White Sulphur Springs	0.86	0.55	0.40	1.78	2.24	3.06	1.51	2.07	1.07	0.64	0.85	0.85	15.88
White Water	0.06	0.88	0.52	0.79	2.93	2.69	3.28	0.95	0.64	0.08	0.37	0.49	13.68
Wibaux	0.12	1.10	0.07	0.88	4.34	2.06	4.45	1.39	1.42	0.84	0.69	0.69	18.05
Willow Creek Reservoir	0.43	0.41	0.63	1.03	2.40	1.41	3.42	1.07	0.57	0.09	0.49	0.78	12.73
Winifred	1.75	0.90	0.40	1.42	2.49	2.42	1.23	0.21	0.00	0.00	1.36	1.01	13.10
Wyola	.....	.....	.....	.....	.....	.....	2.49	0.92	0.04	1.87	1.23	1.25	.....
Nebraska.													
Ainsworth	1.10	.....	1.26	1.82	4.49	2.69	.....	2.72	0.08	0.71	1.76	0.90	.....
Albion	2.09	T.	1.34	2.44	2.57	2.99	4.60	2.71	0.82	0.73	2.18	0.36	22.77
Alliance	.....	.....	.....	.....	.....	.....	2.47	0.22	0.00	0.57	2.52	0.56	.....
Alma	0.14	0.08	2.65	2.51	2.84	1.50	5.74	0.51	0.00	0.33	0.54	0.00	16.84
Arcadia	0.52	0.23	0.43	0.75	3.44	0.94	4.81	3.06	1.19	0.55	2.21	0.00	18.13
Arden	2.05	0.18	0.96	1.07	2.31	3.64	5.04	2.91	1.24	0.62	2.92	0.10	22.04

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Nebraska—Continued.													
Ashland	0.80	0.32	1.38	1.81	2.25	2.44	4.48	1.73	1.95	1.23	2.81	0.08	21.28
Atkinson	0.85	0.68	0.58	0.60	1.39	3.63	2.84	2.29	2.41	0.88	1.64	T.	17.79
Auburn	0.63	1.40	5.89	3.01	4.29	3.85	8.90	1.73	2.86	1.43	4.93	0.23	39.15
Aurora	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.86	T.	.....
Beatrice	0.78	0.93	2.79	2.01	2.87	2.24	6.55	1.51	1.42	.....	.....	0.35	.....
Beaver City	0.54	0.23	1.30	2.81	3.05	0.93	4.99	3.20	0.00	0.08	1.49	0.00	18.62
Bertrand	0.10	0.00	0.77	1.94	2.61	1.24	3.44	2.40	0.58	0.29	2.57	0.00	15.94
Bingham	0.27	0.04	0.09	2.13	1.57	1.90	4.14	3.47	0.39	0.26	2.49	0.12	16.87
Blair	0.80	1.21	2.03	1.61	2.93	3.44	9.08	2.14	1.39	1.39	4.08	0.20	30.30
Bradshaw	0.72	0.42	2.44	1.88	3.93	1.93	5.25	1.79	0.58	0.46	2.57	T.	21.97
Brewster	0.94	0.10	0.60	3.63	3.23	0.84	8.78	1.45	1.66	T.	2.60	0.05	23.88
Bridgeport	0.48	0.20	0.04	3.63	3.06	1.12	2.16	0.36	0.50	0.60	2.42	T.	14.57
Broken Bow	0.65	0.08	0.43	1.51	3.83	1.44	4.02	2.53	0.39	0.29	3.11	0.04	18.32
Bruning	0.39	0.62	1.95	2.49	3.00	2.05	4.21	0.12	1.94	0.77	2.40	0.05	19.99
Burwell	0.89	0.15	0.74	2.00	2.81	2.58	6.33	1.21	0.24	0.71	2.15	0.00	19.81
Butte	1.00	0.50	1.23	0.64	1.75	3.25	5.41	2.58	0.48	1.91	3.34	0.53	22.62
Cairo	0.43	0.01	1.60	2.08	6.18	0.52	2.72	1.88	0.80	1.02	1.73	T.	18.97
Central City	0.62	0.13	2.37	1.99	2.89	2.57	4.60	2.36	0.87	0.86	2.01	0.04	21.31
Chadron	0.81	0.30	T.	4.64	2.35	1.86	5.44	0.43	0.13	0.29	3.72	0.84	20.81
Clay Center	0.70	0.83	1.99	3.08	3.72	0.73	4.06	0.19	1.28	1.38	1.67	T.	19.63
Columbus	0.81	0.30	3.22	2.51	2.72	2.28	7.43	2.18	2.40	0.15	4.19	0.05	28.24
Crete	.....	.....	.....	1.88	3.81	3.42	4.25	1.09	1.17	1.16	2.71	0.05	.....
Culbertson	0.26	0.10	0.98	3.35	1.44	2.93	2.58	1.20	0.00	0.02	1.50	0.02	14.38
Curtis	0.45	0.04	0.90	2.60	1.90	0.80	2.40	2.30	0.20	0.10	2.20	0.00	13.89
David City	1.34	0.49	1.88	1.86	3.53	1.56	6.49	1.24	2.20	0.45	2.80	0.13	23.97
Drexel	1.45	1.10	1.76	2.23	2.43	2.70	4.51	1.31	0.86	1.32	3.57	0.08	23.32
Dumas	0.80	0.15	0.80	1.19	2.11	2.94	7.48	2.75	0.48	1.10	1.70	T.	21.50
Elm Creek	0.24	0.23	1.34	2.77	3.24	2.45	3.18	2.52	0.42	0.29	2.03	0.00	18.71
Elsie	0.41	0.06	0.33	2.88	1.99	2.04	4.14	3.02	0.36	0.06	1.61	0.09	16.99
Ericson	0.81	0.25	0.50	1.04	2.94	2.66	2.56	1.60	0.06	0.57	1.70	0.00	14.69
Ewing	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.82	1.94	T.	.....
Fairbury	0.89	1.62	2.74	2.06	3.95	3.21	7.31	1.34	2.66	2.75	2.05	0.06	30.64
Fairmont	0.60	0.62	1.65	2.05	4.66	2.21	3.58	0.79	2.33	0.35	2.44	T.	21.28
Falls City	.....	1.31	2.14	3.64	.....	1.87	6.06	0.60	3.79	2.42	4.15	0.11	.....
Firth	0.37	1.33	2.16	1.49	2.94	2.05	6.45	1.32	1.05	0.87	2.71	0.10	22.84
Fort Robinson	0.50	0.58	0.10	2.93	5.39	1.45	4.60	1.15	0.00	0.24	3.13	0.19	20.17
Franklin	0.13	0.18	1.88	3.28	4.24	0.98	4.04	0.79	1.14	0.69	1.07	0.00	18.42
Fremont	1.10	0.33	1.98	2.44	3.98	3.99	5.21	1.35	0.78	1.15	4.63	0.08	27.02
Fullerton	0.92	0.11	2.54	1.99	4.28	2.65	4.25	1.99	1.30	0.74	1.96	0.02	22.75
Geneva	1.00	0.77	1.88	2.01	4.36	2.07	6.89	0.51	2.26	0.87	1.84	0.08	24.54
Genoa	1.08	0.10	2.38	1.86	2.55	3.20	5.18	2.43	1.83	0.33	2.08	0.04	23.06
Gordon	0.92	0.27	0.32	5.00	1.56	1.84	4.82	2.80	0.11	0.20	3.63	0.91	22.38
Gosper	0.31	0.05	0.67	3.01	3.18	0.75	2.55	1.58	0.38	0.14	1.94	0.00	14.50
Gothenburg	0.75	0.15	0.35	2.00	2.07	1.82	3.11	4.29	0.87	0.17	2.26	T.	17.84
Grand Island	0.65	0.50	2.50	2.74	5.08	0.43	3.23	1.94	1.74	0.92	3.18	0.02	22.93
Greeley	.....	.....	.....	1.10	2.80	3.25	4.35	1.65	0.60	0.80	.....	.....	.....
Guide Rock	0.34	0.55	1.59	4.08	3.70	2.02	4.91	0.71	0.86	1.36	1.60	0.04	21.76
Haigler	0.22	0.38	0.22	3.55	3.35	0.24	3.32	4.14	0.00	0.00	1.02	T.	16.44
Halsey	0.71	0.23	0.38	2.31	2.35	1.10	4.40	1.40	0.42	0.19	1.97	0.03	15.49
Harrisburg	.....	.....	.....	.....	.....	0.52	3.27	1.49	0.13	0.09	2.27	0.56	.....
Harrison	0.94	0.38	0.16	2.22	3.80	3.93	3.92	2.02	0.02	0.53	3.61	0.46	21.99
Hartington	1.25	0.94	0.62	2.82	3.07	3.87	4.03	1.43	0.72	0.97	2.73	0.15	22.60
Hastings	0.60	.....	1.71	3.27	3.82	0.40	2.94	0.80	1.49	1.08	1.69	T.	.....
Hayes Center	0.85	0.40	1.05	3.77	3.13	1.72	4.46	5.87	0.22	0.05	2.67	0.12	24.31
Hay Springs	1.27	0.60	0.60	6.26	2.80	4.20	5.72	1.11	0.35	0.36	4.05	1.00	28.32
Hebron	0.60	0.70	2.10	2.55	4.10	1.45	3.15	0.50	1.55	0.75	2.55	0.05	20.05
Hillside	0.50	0.15	0.23	3.40	1.85	2.80	5.10	1.79	0.40	0.10	2.95	0.00	19.27
Holdrege	0.60	0.01	1.04	2.98	3.22	4.40	2.85	1.34	0.42	0.33	1.28	0.05	18.57
Imperial	0.64	0.38	0.30	4.06	2.62	1.22	2.94	2.98	0.05	T.	1.88	0.22	17.29
Kearney	0.40	0.14	0.44	2.39	3.64	3.67	3.19	1.41	1.18	0.56	2.27	T.	19.29
Kimball	0.60	0.50	0.30	3.60	1.61	2.08	1.08	1.66	0.54	0.00	2.17	0.60	14.74
Kowanda	.....	0.06	0.06	3.22	1.66	0.20	2.69	2.01	T.	T.	2.20	0.08	.....
Lexington	0.63	0.10	1.01	3.25	2.35	0.55	3.54	3.39	0.73	0.21	2.31	0.00	18.07
Lincoln (Weather Bureau)	1.13	0.66	1.77	2.48	3.22	2.37	6.23	0.69	2.12	1.42	2.62	0.06	24.77
Lincoln (University Farm)	1.01	0.67	1.54	2.23	3.00	2.92	6.26	0.28	2.19	1.50	2.71	0.06	24.37
Lincoln (Agronomy Farm)	0.66	0.72	2.14	1.85	2.73	2.95	5.14	0.49	1.38	1.37	2.90	0.02	22.35
Lodgepole	0.50	0.50	0.10	3.19	1.58	2.24	3.74	1.54	0.34	0.40	1.93	0.20	16.26
Loup City	0.43	.....	0.82	1.98	3.19	2.18	4.26	4.36	1.27	0.73	2.64	0.00	.....
McCook	0.05	0.08	0.72	3.13	1.58	3.13	2.44	0.98	0.24	0.10	1.54	0.00	13.99
McCool Junction	0.77	0.32	2.80	1.91	4.30	2.02	9.01	0.15	1.75	0.76	2.47	T.	26.26
Madison	1.65	0.70	1.96	2.77	4.22	7.78	4.50	3.26	1.00	0.32	2.00	0.10	30.26
Madrid	.....	0.10	0.23	3.61	1.85	2.59	3.34	2.65	0.37	0.02	1.48	0.15	.....
Mary	0.68	0.35	0.65	3.57	2.98	1.06	6.72	1.30	0.25	0.30	1.71	T.	19.57
Mason City	.....	0.17	0.55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Merriman	0.85	0.32	0.18	4.70	1.65	1.09	5.52	1.19	0.17	0.52	3.74	1.17	21.10
Minden	0.33	0.09	2.16	3.00	5.04	1.57	3.78	0.29	0.53	0.80	1.34	T.	18.93
Mitchell	0.14	0.12	0.07	3.52	3.03	0.47	2.09	0.57	0.09	0.02	3.35	0.09	13.56
Nebraska City	0.40	1.65	2.80	2.53	3.03	2.07	6.60	0.66	1.11	0.83	2.89	T.	24.57
Neligh	1.11	0.12	0.51	1.54	1.74	5.05	6.97	5.09	0.87	0.70	1.70	T.	25.40
Nenzel	1.55	0.46	0.60	4.23	3.08	2.95	3.74	1.57	0.04	0.64	3.17	0.54	22.57
Newport	0.52	0.19	0.41	0.75	1.96	4.67	3.77	.....	2.46	1.48	2.15	0.16	.....
Norfolk	1.80	0.25	1.02	2.69	2.48	6.82	5.37	1.54	1.00	0.39	2.27	0.12	25.75
North Loup	0.68	0.06	0.63	1.40	5.32	3.02	5.75	1.58	1.00	0.32	2.08	0.02	21.86
North Platte	0.66	0.05	0.47	2.01	2.53	0.87	4.91	2.26	1.00	0.14	2.35	0.01	17.26
Oakdale	1.36	0.20	0.60	2.16	1.24	5.13	6.92	4.61	0.73	0.66	2.02	0.01	25.04
Ogallala	0.65	0.21	0.23	3.67	1.87	.....	.....	.....	.....	.....	.....	.....	.....
Omaha	0.94	0.91	1.47	2.12	2.37	2.68	5.60	1.01	1.29	1.45	2.55	0.07	22.46
O'Neill	0.75	0.28	1.39	0.79	1.05	4.83	4.07	1.47	1.46	0.75	3.15	0.10	20.09
Ord	0.82	T.	0.58	1.35	4.12	5.93	4.65	2.23	0.45	0.90	3.03	0.00	24.06
Orleans	0.25	0.00	1.98	3.23	3.26	3.08	6.54	1.56	0.00	0.40	1.10	0.00	21.40
Osceola	0.93	.....	2.86	2.00	.....	.....	.....	2.61	0.65	0.10	3.70	0.16	.....
Oshkosh	0.65	0.21	0.08	4.19	2.11	1.39	4.03	0.85	0.04	0.06	3.11	0.05	16.77
Palisade	0.15	0.04	0.72	4.21	2.17	2.04	2.89	3.05	0.00	0.09	1.46	0.07	16.80
Pawnee City	.....	.....	3.08	3.28	2.95	7.23	7.30	1.10	2.75	2.89	3.68	0.10	.....
Paxton	0.73	0.28	0.30	2.70	2.31	2.38	3.24	1.85	0.31	0.14	1.80	0.20	16.24
Plattsmouth	0.70	0.90	1.73	3.20	2.36	3.22	4.09	1.65	1.20	2.75	2.63	0.02	24.45
Potter	0.34	0.30	0.22	2.96	1.49	1.56	1.36	0.59	0.08	0.00	3.22	0.04	12.16

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Nebraska—Continued.													
Purdum	1.29	0.32	0.58	2.73	2.01	1.18	6.76	2.50	0.23	0.21	2.34	0.15	20.30
Ravenna	0.44	0.10	1.05	1.85	4.09	2.54	2.90	2.82	0.91	0.54	1.97	T.	19.21
Red Cloud	0.23	0.36	1.56	3.13	3.72	0.91	2.70	0.32	0.97	1.49	1.04	T.	16.43
St. Paul	0.41	0.01	0.92	1.95	5.20	3.02	4.76	3.03	1.25	0.82	1.38	0.00	22.75
Santee	1.37	0.22	0.20	0.34	1.38	2.54	5.51	1.41	0.45	1.82	1.36	0.34	16.94
Schuyler	.....	0.30	2.33	2.04	2.66	2.01	4.66	2.72	2.93	0.36	4.19	0.03	.....
Scottsbluff	0.27	0.27	0.23	4.26	3.54	1.90	2.70	0.41	0.13	0.07	2.86	0.31	16.95
Seward	0.80	0.25	1.79	2.74	3.79	2.49	6.97	0.89	1.93	0.64	4.23	0.10	26.62
Sidney	0.35	0.42	0.16	3.80	1.61	0.68	2.25	1.61	0.09	0.00	2.04	0.05	13.06
Springfield	0.62	1.04	1.77	2.88	2.79	3.76	5.26	1.30	2.23	2.08	3.60	0.25	27.58
Stanton	1.12	.....	1.27	2.21	.....	7.47	4.48	1.05	0.40	0.06	2.18	0.13	.....
Stapleton	0.78	T.	0.26	2.92	1.84	2.18	4.13	4.43	0.12	0.21	2.95	T.	19.82
Stella	.....	.....	.....	.....	3.96	1.77	7.20	1.37	4.89	1.03	4.51	.....	.....
Stratton	0.23	0.13	0.98	4.82	1.75	1.33	2.57	2.53	T.	T.	2.04	0.09	16.47
Superior	0.38	0.59	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sutherland	0.49	0.00	0.38	2.00	2.06	1.72	3.51	2.61	T.	T.	0.95	T.	13.72
Syracuse	1.05	1.55	2.32	2.73	3.17	1.97	4.25	0.77	1.88	2.17	2.39	0.10	24.35
Table Rock	0.72	1.26	3.11	2.81	2.25	2.94	6.52	1.31	3.05	1.73	5.03	0.09	30.82
Taylor	0.48	T.	0.45	1.65	3.38	2.03	6.51	1.73	0.34	0.64	2.50	T.	19.71
Tecumseh	0.72	1.15	3.14	2.53	3.57	1.66	6.70	1.02	4.04	2.35	4.40	T.	31.28
Tekamah	1.20	0.58	1.72	2.36	1.59	1.76	7.52	1.73	1.01	1.15	5.02	0.16	25.80
Upland	0.25	0.50	1.69	3.17	4.01	0.62	5.42	0.85	0.35	0.80	0.99	0.05	18.70
Utica	0.75	0.51	2.72	1.27	4.01	2.98	3.00	0.73	1.71	0.33	3.14	0.06	21.29
Valentine	1.00	0.32	0.75	2.30	2.67	4.03	3.89	0.42	0.11	0.61	2.74	0.43	19.27
Wahoo	1.05	0.31	1.72	1.21	2.75	2.33	5.54	0.75	0.96	1.16	4.08	0.05	21.91
Wakefield	1.22	0.56	1.63	3.06	1.78	4.16	7.71	1.10	0.61	0.71	3.39	0.03	25.96
Walthill	0.66	0.30	1.93	2.76	1.72	2.24	6.43	1.28	1.38	0.90	4.41	0.07	24.06
Watertown	0.50	0.34	0.28	2.86	2.47	0.92	2.55	2.09	1.27	0.44	2.11	T.	15.83
Wauneta	0.52	0.30	0.17	2.95	1.75	1.49	2.75	2.36	0.08	0.03	1.95	0.13	14.48
Weeping Water	1.00	1.35	1.60	3.15	2.20	1.97	3.55	1.05	1.50	1.65	2.55	0.10	21.67
Western	0.35	0.26	2.71	1.71	4.29	2.01	.....	.....	.....	.....	.....	.....	.....
West Point	1.30	0.38	2.77	2.58	.....	7.31	7.73	1.22	0.18	1.03	4.97	0.08	.....
York	0.78	0.46	2.76	1.69	2.55	2.32	2.82	0.51	1.73	0.22	3.25	0.12	19.21
Nevada.													
Alamo	0.58	1.14	1.11	1.35	2.36	0.40	1.17	1.48	0.00	0.40	0.45	0.72	11.16
Arthur	2.56	2.95	1.59	3.30	1.02	0.98	0.00	1.77	0.00	0.45	1.45	1.95	18.02
Austin	2.22	2.03	2.11	1.93	1.91	0.25	1.47	1.89	0.00	0.35	1.86	1.84	17.86
Battle Mountain	1.05	1.60	0.50	0.80	0.20	T.	0.10	0.20	0.00	0.30	0.55	0.90	6.20
Beatty	1.74	1.55	0.41	T.	0.51	0.00	0.12	.....	.....	0.10	0.89	0.53	.....
Beowawe	0.90	.....	0.25	0.15	0.95	1.55	0.98	0.24	0.00	.....	.....	.....	.....
Clover Valley	.....	.....	1.94	.....	.....	0.73	0.45	0.79	T.	0.36	.....	.....	.....
Elko	0.85	2.55	0.50	0.40	1.15	0.30	0.25	0.54	0.00	0.50	1.05	1.00	9.09
Eureka	1.00	1.83	0.76	1.48	1.08	0.25	0.55	2.34	0.00	0.50	0.90	1.32	12.01
Fallon	1.03	0.97	0.19	0.43	0.27	0.18	0.10	1.35	0.00	0.07	0.68	1.80	7.05
Gerlach	0.20	1.48	.....	.....	.....	.....	.....	.....	0.00	T.	T.	1.70	.....
Golconda	0.84	1.12	0.72	.....	.....	0.03	T.	0.15	0.00	0.64	0.24	0.36	.....
Gold Creek	.....	2.21	1.70	.....	0.64	2.13	0.72	1.15	0.00	0.72	1.08	1.88	.....
Goldfield	1.02	0.45	0.20	0.40	.....	.....	.....	0.11	0.00	0.00	0.74	0.86	.....
Hylton	1.58	2.09	1.35	1.72	1.10	0.74	0.60	1.69	0.00	1.15	1.17	2.61	15.80
Imlay	1.25	1.91	0.29	0.65	0.52	T.	0.42	2.93	0.00	0.10	0.35	1.81	10.23
Jungo	0.30	.....	T.	0.41	0.20	0.00	0.28	0.53	0.00	.....	0.15	0.21	.....
Lahontan	0.57	0.90	0.27	0.15	0.23	0.46	0.18	1.44	0.00	T.	0.36	1.51	6.07
Lamoille	1.91	4.29	1.68	2.88	2.24	1.27	1.80	1.98	0.00	0.87	2.30	2.11	23.03
Las Vegas	0.68	0.30	0.18	0.08	0.10	0.60	0.20	2.49	0.00	0.95	0.23	T.	5.81
Logandale	1.37	0.65	0.89	0.14	0.58	1.05	1.03	3.10	0.00	0.09	0.54	0.23	9.67
Lovelock	0.79	0.61	0.19	0.60	0.16	0.02	0.54	0.71	0.00	0.06	0.27	1.51	5.46
McGill	0.73	0.83	1.03	1.41	0.94	0.85	0.58	2.29	T.	1.15	0.90	1.16	11.87
Mahoney Ranger Station	3.44	3.25	3.26	2.19	1.58	2.40	0.95	0.85	0.00	0.55	0.79	1.76	21.02
Millett	0.33	0.62	0.37	0.35	0.90	0.43	0.41	1.28	0.00	T.	0.55	0.68	5.92
Mina	0.90	0.29	0.80	0.00	0.10	0.00	T.	0.12	0.00	0.00	0.00	0.00	2.21
Minden	1.27	2.87	0.40	0.22	0.12	0.62	0.51	T.	0.00	0.27	1.05	2.09	9.42
Montello	1.05	1.57	0.20	0.36	0.51	0.41	0.68	0.96	0.00	0.30	0.64	0.75	7.43
North Fork	1.14	0.65	1.72	0.40	0.80	1.45	1.55	1.03	0.00	0.25	1.34	1.80	12.13
Owyhee	1.87	2.10	2.65	1.58	2.42	1.80	0.91	0.96	.....	.....	.....	.....	.....
Pahrump	1.21	0.75	0.59	0.37	0.64	0.21	0.39	0.71	0.01	0.10	0.10	0.50	5.58
Paradise Valley	.....	2.37	1.88	0.88	1.25	0.42	0.50	0.79	0.00	0.33	1.01	3.02	.....
Quinn River Ranch	0.13	2.00	.....	.....	0.38	T.	0.62	0.50	0.00	0.57	.....	1.37	.....
Rebel Creek	0.76	1.45	1.12	0.92	1.03	0.22	0.00	0.93	0.00	.....	0.71	1.82	.....
Reno	0.64	4.06	0.75	0.40	0.10	0.92	0.33	0.01	0.00	0.09	0.97	3.03	11.30
Rye Patch	0.40	1.59	0.23	0.57	0.26	0.10	0.42	0.36	0.00	0.35	0.64	1.55	6.47
Sand Pass	0.69	2.27	0.15	0.18	0.10	0.73	0.19	0.21	0.00	0.14	0.48	2.06	7.20
San Jacinto	1.40	0.57	0.07	0.77	1.20	0.45	0.20	0.45	0.00	0.10	0.30	0.70	8.21
Schurz	0.88	1.19	0.66	0.45	0.12	0.55	0.27	1.06	0.00	.....	.....	0.48	.....
Searchlight	2.36	0.77	0.86	0.03	0.22	0.16	0.95	5.29	0.19	0.32	0.41	0.34	11.90
Sharp	2.10	1.72	0.78	0.48	0.41	0.00	0.35	3.71	0.00	0.30	0.68	2.13	12.66
Smith	0.59	1.66	0.57	0.85	T.	1.02	0.27	0.16	0.00	T.	0.56	1.34	7.02
Sulphur	0.92	0.93	0.03	0.05	0.80	T.	0.25	0.20	0.00	T.	0.05	1.22	4.45
Thorne	0.55	0.45	0.10	0.19	0.19	0.20	0.98	0.36	0.00	0.00	0.10	0.25	3.37
Tonopah	1.04	0.54	0.14	0.44	0.38	0.04	0.84	0.77	0.00	0.01	0.41	0.28	4.89
Tuscarora (near)	1.91	1.29	1.51	1.24	1.37	1.44	0.69	1.66	0.00	0.64	1.17	1.72	14.64
Vya	1.20	4.12	.....	.....	.....	.....	.....	.....	.....	0.55	0.48	2.15	.....
Winnemucca	1.15	2.10	0.79	0.55	0.47	0.15	0.36	0.91	0.00	0.31	0.52	1.91	9.22
Yerington	0.85	1.34	0.76	0.46	T.	0.38	0.55	1.05	0.00	T.	0.50	1.08	6.97
New Hampshire.													
Alstead Center	1.68	1.81	5.37	3.26	4.14	6.50	2.73	4.63	2.49	1.28	1.46	.....	.....
Berlin	2.32	2.04	4.09	2.96	3.39	8.36	1.41	5.98	3.03	2.02	0.93	3.16	39.69
Bethlehem	1.61	2.48	.....	.....	.....	.....	.....	4.62	2.41	1.07	1.16	2.26	.....
Concord	1.73	2.65	5.00	2.11	5.30	7.88	1.89	2.63	2.72	2.27	1.12	1.73	37.03
Durham	1.77	3.30	4.68	2.29	5.51	11.92	3.40	2.90	3.20	3.59	1.63	3.08	47.27
Franklin	2.01	3.28	5.89	3.44	4.89	10.97	1.63	2.63	1.36	1.90	1.02	2.17	41.19
Glencliff	1.83	2.46	5.37	3.52	3.26	10.61	3.38	5.06	2.17	2.22	1.18	3.89	44.95
Hanover	2.32	2.67	4.61	3.73	2.76	7.78	3.02	4.09	2.52	2.29	0.96	2.27	39.02
Keene	2.21	2.78	5.24	3.21	3.39	7.73	4.84	4.59	1.79	2.40	1.70	2.68	42.45

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
New Hampshire—Continued.													
Lancaster	1.28	2.24	1.33	1.90	1.55	.....	.....	.....	0.90	2.11	1.00	2.21	.....
Lincoln	1.52	3.41	4.89	4.21	4.30	11.59	1.62	5.72	2.19	2.91	1.77	3.18	47.31
Pittsburg (a)	2.17	3.22	2.95	3.73	1.98	8.86	2.48	9.57	1.95	3.45	2.86	2.03	45.25
Pittsburg (b)	2.32	4.03	3.05	4.63	2.81	10.40	3.55	7.81	5.65	3.85	2.60	2.75	53.45
Plymouth	1.93	3.58	5.07	3.44	3.94	11.55	2.40	2.91	1.79	1.86	0.92	2.42	41.81
Profile	1.65	2.34	5.83	3.60	3.34	8.94	3.62	7.51	3.06	3.61	2.36	1.83	47.69
Waterville	2.72	2.85	4.59	4.70	5.90	9.42	.....	.....	.....	.....	.....	.....	.....
West Stewartstown	2.23	3.18	3.01	3.57	1.97	.....	.....	.....	2.02	2.63	1.46	2.09	.....
Woodsville	1.65	2.98	3.50	2.84	2.11	8.56	2.42	3.77	2.56	3.26	2.08	2.66	38.39
New Jersey.													
Asbury Park	2.55	2.08	.....	2.64	3.54	6.28	3.23	5.91	1.53	0.96	1.25	4.51	.....
Atlantic City	4.04	3.67	4.38	1.75	1.45	5.46	5.03	5.13	1.15	1.50	0.38	4.79	38.93
Belle Plain	.....	.....	.....	2.48	2.04	4.20	6.55	3.35	2.55	1.77	1.01	4.29	.....
Belvidere	1.83	2.86	4.74	3.74	3.27	4.18	5.94	3.97	4.02	1.52	0.80	3.17	40.00
Bergen Point	1.95	2.68	4.01	2.51	3.94	9.38	.....	4.70	5.22	1.61	1.18	.....	.....
Boonton	1.08	2.80	5.17	2.81	6.38	6.06	6.48	3.71	3.30	1.86	0.88	3.42	43.95
Bridgeton	3.23	3.02	4.90	1.60	2.67	4.73	3.73	5.24	0.80	0.76	0.67	3.50	34.85
Burlington	2.76	2.55	4.03	2.56	2.78	4.37	4.59	5.13	1.66	0.81	0.57	4.17	35.98
Camp Dix	2.26	1.96	.....	2.15	4.03	5.06	7.41	3.29	0.88	2.07	0.74	.....	.....
Cape May	3.95	4.60	4.55	2.41	1.23	5.15	6.06	4.79	2.07	1.07	0.71	4.13	40.72
Charlotteburg	1.48	2.89	5.10	3.02	7.10	7.20	4.84	5.07	4.22	2.70	0.91	3.46	47.99
Chatham	2.66	3.86	5.17	.....	6.66	5.71	8.93	2.74	2.53	1.63	1.10	4.70	.....
Culvers Lake	1.34	2.25	4.34	3.13	4.49	6.83	5.90	3.91	1.98	2.03	0.85	3.30	40.35
Dover	2.21	3.23	4.79	2.89	4.11	7.54	7.00	4.21	3.96	1.34	0.96	3.34	45.58
Elizabeth	2.63	3.18	4.80	2.77	5.24	7.62	9.04	2.35	2.29	1.13	1.03	4.17	46.25
Flemington	1.41	3.18	4.42	3.16	3.83	5.83	5.61	4.67	0.86	1.00	0.52	3.56	38.05
Hammonton	3.80	3.52	4.12	1.63	2.39	4.31	6.57	6.78	1.37	1.64	0.62	.....	.....
Hightstown	2.84	2.68	4.55	4.12	3.35	6.05	4.91	5.54	1.50	2.37	0.95	3.83	42.69
Highwood	2.64	2.89	4.96	2.46	4.66	8.87	7.01	2.50	4.56	1.79	1.56	3.74	47.64
Imlaystown	3.03	.....	4.06	2.62	2.56	6.20	3.62	3.99	2.28	1.87	0.76	3.47	.....
Indian Mills	3.31	3.30	3.42	2.34	3.01	4.47	6.33	5.58	1.74	1.52	0.69	4.38	40.09
Jersey City	2.91	3.21	4.51	2.41	3.93	8.09	7.32	4.66	3.28	1.24	1.20	4.00	46.76
Kearny	2.63	.....	5.61	2.50	.....	8.15	6.32	.....	.....	.....	.....	.....	.....
Lakewood	3.84	3.02	4.16	2.58	3.23	11.22	4.35	3.95	0.87	1.51	1.51	4.07	44.31
Lambertville	2.02	2.50	4.46	2.80	3.61	7.04	3.43	2.95	0.75	1.11	0.74	3.24	34.65
Layton	2.36	2.57	4.87	3.66	4.23	8.99	5.36	4.02	1.93	2.06	1.16	3.31	44.52
Little Falls	2.27	3.05	4.96	2.78	5.38	7.59	6.75	3.87	4.37	1.75	1.26	4.09	48.12
Long Branch	3.54	3.00	4.56	1.93	3.15	5.42	4.35	3.93	0.59	0.72	1.18	3.79	36.16
Lumberton	.....	.....	.....	.....	.....	.....	4.90	4.61	2.70	0.83	0.60	3.99	.....
Moorestown	3.92	2.59	3.90	2.31	3.15	4.37	2.40	4.68	1.98	0.87	0.55	3.46	34.18
Newark	1.77	2.44	7.10	2.44	7.85	11.50	7.53	2.30	2.07	1.91	0.97	4.22	51.80
New Brunswick	2.06	2.65	4.28	2.74	4.41	7.59	6.28	4.39	1.70	1.67	0.77	3.98	42.52
New Milford	.....	2.50	.....	2.04	5.14	6.61	5.56	2.81	4.26	1.42	1.28	3.53	.....
Newton	2.01	1.87	.....	2.79	3.48	5.54	5.00	4.31	2.40	1.94	0.91	3.09	.....
Northfield	3.58	3.55	4.06	2.48	1.16	2.97	5.85	4.05	1.34	1.26	0.56	4.39	35.25
Paterson	2.86	2.80	5.85	2.16	4.13	5.75	5.40	2.65	3.58	1.80	1.18	4.08	42.24
Phillipsburg	2.22	2.46	4.08	3.60	4.86	.....	4.41	2.89	1.92	1.07	0.49	.....	.....
Plainfield	1.95	3.05	5.60	2.56	5.01	6.75	9.26	3.62	1.84	1.55	0.84	3.97	46.00
Pleasantville	2.94	3.76	3.84	2.47	1.36	5.12	4.57	5.34	0.73	1.09	0.68	5.26	37.16
Ridgefield	2.81	3.14	4.68	2.31	4.24	9.05	6.77	2.18	4.20	1.47	1.32	3.93	46.10
Sandy Hook	1.74	2.27	3.94	2.08	3.27	8.98	5.36	2.76	1.09	1.28	1.10	3.39	37.26
Somerville	.....	.....	.....	.....	.....	.....	6.33	3.89	1.25	0.55	0.67	3.44	.....
South Orange	2.52	3.91	6.03	2.35	5.85	7.33	5.70	3.19	2.39	2.37	1.29	4.51	47.44
Sussex	1.46	1.80	3.45	.....	3.89	6.75	5.49	.....	1.76	1.75	0.98	3.14	.....
Trenton	2.41	2.25	3.89	1.69	3.03	4.98	2.29	5.16	1.75	0.81	0.62	3.46	32.34
Tuckerton	4.13	4.11	4.18	2.80	2.28	4.13	4.36	5.94	1.72	1.57	1.01	4.13	40.36
Vineland	3.88	.....	3.99	2.57	3.63	5.77	9.21	4.31	2.37	1.21	0.81	4.01	.....
Woodcliff Lake	.....	1.66	3.72	1.57	3.97	4.39	7.75	2.68	3.12	1.61	0.67	.....	.....
New Mexico.													
Abbott	0.12	0.76	0.01	0.48	2.58	1.22	2.41	0.51	2.47	0.01	0.95	0.00	11.55
Agricultural College	0.56	0.00	T.	0.30	0.38	0.30	0.45	1.05	1.32	0.48	0.49	0.25	5.58
Alamogordo (No. 1)	0.87	0.02	0.07	0.73	T.	0.96	0.38	0.87	0.95	1.75	0.68	0.19	7.47
Alamogordo (No. 2)	1.12	0.07	0.19	0.70	T.	0.10	0.71	0.57	0.45	0.92	0.59	0.25	5.67
Alamos Ranch	.....	.....	.....	2.02	0.17	0.90	1.07	0.51	1.33	0.33	1.22	.....	.....
Albuquerque	0.03	0.07	0.47	0.16	0.31	0.33	0.25	1.28	0.12	0.13	0.89	0.25	4.09
Alma	0.68	T.	0.10	0.75	0.04	1.21	1.81	2.22	0.96	0.36	1.01	0.12	9.26
Ancho	0.30	0.35	0.40	0.92	0.55	1.69	1.49	0.95	1.23	T.	0.42	0.80	9.10
Aragon	0.69	0.53	0.97	0.32	0.00	0.30	0.65	0.80	.....	0.16	.....	.....	.....
Artesia	0.09	0.04	0.08	2.35	1.67	0.93	0.17	0.41	0.31	0.18	0.77	0.00	7.00
Aspen Grove Ranch	1.64	2.09	1.94	1.51	1.05	1.37	1.69	1.91	0.88	0.46	3.02	2.59	20.15
Aurora	0.35	0.50	0.67	1.09	1.27	1.48	4.59	3.29	1.24	0.19	1.64	0.20	16.51
Aztec	0.95	0.41	1.61	0.18	0.00	0.58	0.08	0.52	0.26	0.16	3.21	0.42	8.38
Baca Ranch Ranger Station	0.14	0.00	0.55	.....	2.85	.....	.....	.....	1.70	0.06	0.42	.....	.....
Baldwin Ranger Station	1.19	0.84	0.03	0.65	0.00	1.58	1.12	.....	0.00	0.02	.....	0.01	.....
Barton	0.20	1.05	1.15	0.50	0.80	0.14	0.53	1.01	0.78	0.18	1.47	0.23	8.04
Bateman's Ranch	2.43	2.25	0.49	0.40	1.25	1.75	0.68	2.03	0.78	0.30	2.45	2.51	17.32
Bell Ranch	0.10	0.25	0.42	0.47	1.75	1.95	1.68	0.16	2.45	0.30	1.51	0.00	11.04
Bellview	0.21	0.10	0.48	.....	1.22	.....	.....	.....	.....	.....	.....	0.08	.....
Black Lake	0.12	0.42	0.25	0.50	0.63	1.16	3.18	2.07	1.01	0.03	1.31	0.23	10.91
Blackrock	0.89	0.34	0.41	0.82	0.38	0.14	0.98	2.61	0.26	0.19	1.16	1.00	9.18
Bland (near)	0.21	1.49	0.41	1.74	0.32	1.40	1.26	2.19	1.94	.....	.....	.....	.....
Bloomfield	0.45	1.11	0.55	0.25	0.51	0.01	0.29	0.89	0.19	0.19	2.14	0.29	6.87
Boaz	0.14	0.05	1.01	1.72	0.16	2.77	1.05	0.39	0.64	0.04	0.41	0.03	8.41
Buchanan	0.06	0.20	0.75	0.47	1.63	2.25	2.75	0.38	0.63	T.	0.77	0.00	9.89
Cambray	0.28	0.04	0.16	0.10	0.00	0.08	1.42	0.80	1.08	0.67	0.19	0.00	4.82
Campana	0.07	0.39	0.68	0.38	2.38	1.22	0.30	1.77	0.72	0.20	1.35	0.05	9.51
Capitan	0.20	0.07	0.43	0.83	0.84	2.15	1.38	0.93	0.95	0.02	0.52	0.08	8.40
Capulin Ranger Station	.....	.....	.....	.....	T.	.....	.....	.....	0.29	0.08	.....	.....	.....
Carlsbad	0.25	0.03	0.05	3.92	0.59	1.78	1.41	0.16	2.14	0.44	0.38	0.00	11.15
Carrizozo	0.53	T.	0.24	0.31	0.15	0.23	0.86	1.76	0.21	1.35	1.21	0.27	7.12
Carson Seep Ranger Station	0.04	0.13	0.60	1.55	0.47	1.84	1.44	0.48	0.90	1.18	0.45	0.00	9.08
Chaco Canyon	.....	.....	.....	.....	0.08	T.	0.87	0.99	0.32	T.	1.38	0.00	.....
Chacon	0.37	1.40	0.42	1.07	0.69	0.74	2.27	3.23	2.01	0.10	1.70	[0.22]	[14.22]

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
New Mexico—Continued.													
Chama	1.92	3.29	2.90	0.95	0.78	0.08	0.37	2.25	0.70	T.	2.17	3.35	18.76
Chloride									0.85	0.77	1.41	0.00	
Cimarron (near)	0.15	0.58	0.11	1.56	2.11	0.85	1.86	1.59	0.96	T.	0.78	T.	10.55
Clayton	0.08	0.70	0.88	0.97	3.60	1.22	1.87	0.53	0.34	0.02	0.42	0.12	10.75
Cloudcroft	2.07	0.15	0.57	0.87	T.	1.99	1.89	4.15	1.16	1.97	1.47	0.31	16.60
Cloverdale	2.03	0.28	1.10	0.38	0.00	1.33	2.37	4.18	1.59	0.00	2.60	0.20	16.06
Cloverdale Ranger Station			0.75	0.48	0.10		5.62	9.93	0.30	0.20	1.77	0.70	
Clovis	0.08	0.12	0.66	3.68	1.17	4.97	0.54	1.82	0.27	T.	0.50	T.	13.81
Columbus	0.64	0.00	T.	0.19	0.00	0.00	1.00	2.69	0.99	0.07	0.18	0.00	5.76
Corona	0.32	0.37	0.72	0.69	0.43	0.83	1.99	1.58	1.44	0.18	0.60	0.00	9.15
Crown Point	1.45	0.67				0.41		1.50		T.	0.74	T.	
Cuervo	0.20	0.20	1.45	1.10	2.20	1.97	1.30	0.70	2.26	0.00	1.50	0.00	12.88
Cundiyo	0.36	0.42	0.56	0.53	0.02	0.50	0.80	0.15	0.20	0.05	1.27	0.03	4.89
Dawson	0.19	0.61	0.44	2.02	2.38	1.60	1.28	1.53	0.92	0.00	0.75	0.00	11.72
Deming (No. 1)	0.55	0.10	0.40	0.45	0.00	0.75	0.43	0.87	0.78	0.98	0.45	0.25	6.01
Deming (No. 2)	0.37	0.01	0.43	0.38	0.08	1.17	0.17	1.95	0.96	1.16	0.49	0.12	7.29
Demonstration Farm	0.14	1.00	0.40	1.17	1.30	1.75	1.44	2.56	2.52	0.00			
Des Moines	0.33	0.58	0.44			0.98	3.64	2.52	0.47	0.14	0.51	0.15	
Diener	1.57	0.64	2.82	6.37	4.05	7.20	0.91	2.98	0.13	[0.95]	5.81	4.95	[38.38]
Dufur Ranch	0.70		0.40	6.80	0.11	1.00	1.40	0.90	0.00				
Du'ce	1.46	1.64	2.92	0.25	0.67	1.01	0.45	0.62	0.11	0.19	1.78	1.75	12.85
Duran	0.22	0.45	1.02	0.68	0.94	2.05	0.56	0.41	0.94	T.	0.68	0.05	8.00
Eagle Rock Ranger Station		0.70	2.20	1.25	1.23	1.05	2.16	1.85	0.38	0.81		0.60	
Elephant Butte Dam	0.67	0.04	0.04	0.05	0.02	T.	0.95	0.40	0.39	0.28	0.93	0.00	3.77
Elida	0.00	0.08	1.25	2.88	0.65	1.62	0.40	0.48	0.00	0.20	0.27	0.00	7.83
Elizabethtown	0.51	0.91	0.16	0.45	1.29	0.37	3.38	4.06	1.50	0.47	0.79	0.54	14.43
Elk (near)	0.01	0.10	T.	1.80	1.56	3.19	0.85	1.05	0.47	0.59	0.85	0.00	10.47
Espanola	0.03	0.95	0.30	1.38	0.09	0.47	0.38	0.00	0.38	0.00	2.45	0.25	6.68
Farmington	0.69	0.47	0.74	0.55	0.30	0.05	1.07	0.74	0.00	0.42	2.86	0.17	8.06
Field (near)	0.32	0.33	0.76	3.08	1.80	1.21	2.54	1.62	0.86	0.13	0.72	0.11	13.48
Fort Bayard					T.	1.58	2.00	1.50	1.45	2.06	1.65	1.28	
Fort Stanton	0.34	0.17	0.23	0.65	1.15	2.57	1.23	0.60	0.93	T.	0.81	0.10	8.78
Fort Sumner	0.68	0.13	0.81	1.52	3.33	1.79	2.43	0.45	1.07	0.15	0.42	0.00	12.78
Fruitland	0.50	0.11	0.20	0.02	0.22	0.11	0.35	0.93	T.	0.08	2.05	0.04	4.61
Gage	0.35	0.00	0.48	0.20	0.00	0.73	1.76	1.00	1.52			0.50	
Gallegos (near)	0.08	0.16					Discontinued.						
Gallinas Planting Station	0.25	1.16					1.42	4.74	1.91	0.07	1.33	T.	
Gallinas Ranger Station	0.27	0.27	0.35	0.75	0.62	1.02	1.10	1.75	1.30	0.00	[0.51]	0.00	[7.94]
Gallup									0.05	0.27	1.60	0.78	
Garfield	0.00	0.00	0.20	0.08	0.42	0.24	0.89	2.22	0.83	0.72	1.14	0.15	6.89
Gibson							0.88	3.74	0.11	0.56	1.78	0.53	
Gladstone	0.40				1.52	3.14	2.02	2.29	1.63				
Glenrio				2.60	0.25	0.22	0.29	0.29	0.13	0.05	0.11	T.	
Glorieta Ranch	0.10	0.25	0.10	0.23	0.00	1.64	1.19	1.89	0.70	0.32	0.66	0.00	7.08
Hachita	0.21	T.	0.82	0.23	0.05	0.69	1.12	3.87	1.30	T.	1.04	0.43	9.76
Hagerman	0.18	0.05	0.20	3.85	2.48						0.74	0.00	
Hard Castle Ranch	1.15	0.45	1.28	1.26	T.								
Harvey's Upper Ranch	[0.63]	2.00	1.15	4.22	2.10	2.56	3.75	5.46	2.33	0.65	3.30	0.50	[28.65]
Hayden (near)	[0.14]	0.50	0.21	2.25	1.24	1.95	1.60	1.86	0.53	0.05	0.56	0.00	[10.89]
Haynes	0.82	0.51	0.73	0.52	0.18	0.67	0.93	2.38	0.07	0.00	1.21	0.37	8.39
Hermanas	0.26	0.00	0.28	0.36	0.00	0.02	1.74	2.51	1.37	0.34	1.14	[0.23]	[8.25]
Hermosa	0.18	T.	0.49	0.37	0.05	0.90	2.11	1.23	0.99	0.38	1.88	0.00	8.58
Hobbs	0.28	0.03	0.12	5.17	0.69	2.23	2.01	0.77	1.45	0.39	0.37	0.02	13.53
Hood Ranger Station	2.00	0.42	1.27	1.28	0.03	0.64	2.21	1.09	0.00	0.40	2.00	0.00	11.34
Hoosier Ranch	0.12	0.17	T.	0.52	1.98	1.02	T.	0.81	0.43	0.00	1.25	[T.]	[6.30]
Hope	T.	0.04	0.74	1.52	1.69	1.04	0.07			0.16	0.84	0.00	
Ione	0.20	0.17	0.24	1.28	2.62	0.78	2.05	1.18	T.	0.05	0.88	0.00	9.45
Jemez Springs	0.56	1.31	0.55	2.42	0.35	0.38	1.42	2.09	0.50	0.06	1.91	0.22	11.77
Johnson's Park	[0.24]	0.26	0.59	1.22	1.36	1.99	2.51	0.69	1.10	0.02	1.39	0.30	[11.67]
Kingston Ranger Station	0.74	0.00	1.10	0.05	0.00	0.44	1.55	2.58	2.33	0.90	1.79	0.29	11.77
Lagunita	0.06	0.26	0.49	0.68	2.37	1.80	1.71	1.04	2.42	0.00	0.73	0.00	11.56
Lake Alice (near)	0.48	1.70	2.70	2.25	2.14	2.40	3.31	3.05	1.40	T.	0.75	0.27	20.45
Lake Avalon	0.17	0.08	0.00	4.85	0.54	1.34	1.50	0.00	0.46	0.46	0.48	0.00	9.42
Lake Valley	0.45	0.09	0.21	0.33	0.08	0.21	0.60	1.01	1.58	0.89	1.29	0.35	7.09
Lakewood (near)	0.00	0.05	0.18	2.00	0.70	2.30	0.75	1.00	T.	0.30	0.38	0.00	7.66
Lanark	0.25	0.00	0.10	0.26	0.10	0.20	0.55	0.35	0.40	0.35	0.45	0.00	3.01
Las Vegas	0.36	0.75	0.41	1.25	0.71	3.90	2.03	2.58	1.79	0.06	1.31	0.01	15.16
Levy[4]	0.33	0.64	0.40	3.65	2.04	1.38	3.84	1.77	0.98	T.	0.65	0.00	15.68
Lindrith	1.16	0.20	1.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	2.05	0.00	4.94
Logan (near)			T.	2.42	2.21	3.83	0.91	1.44	0.40	0.10	0.91	0.00	
Lordsburg	0.60	0.00	1.61	0.40	0.00	0.40	0.45	1.50	0.75	0.25	0.70	0.20	6.86
Los Lunas (near)	T.	T.	0.40	0.45	0.40	0.18	0.20	0.57	T.	0.00	0.94	0.10	3.24
Loving	0.08	0.04	0.03	4.23	2.26	1.80	2.03	0.15	0.60	0.64	0.52	0.00	12.38
Lovington	0.12	0.01	T.	2.10	1.34	2.95	2.08	T.	0.66	0.38	0.50	0.00	10.14
Luna Ranger Station	1.04	0.69	1.06	0.78	T.	0.81	1.84	1.62	[1.92]	0.69	2.60	0.43	[13.48]
Magdalena	0.25	0.00			T.	0.87	0.80	0.35	0.40	T.	0.92	T.	
Maxwell (near)	0.20	0.35	0.26	1.28	0.39	1.78	2.19	2.50	1.71	0.00	0.88	T.	11.54
Mayhill Ranger Station	0.59	0.07	0.12	2.61	1.44	1.82	0.68	3.62	2.29	0.90	0.55	T.	14.69
Meek	0.18	0.18	0.83										
Melrose	0.14	0.11	2.58	3.40	0.54	2.57	0.69	0.72	0.54	0.14	0.52	0.05	12.00
Mescalero	1.73	0.01	0.26	0.63	0.52	1.37	1.62	4.37	1.49	1.54	1.89	T.	15.43
Miami Ranch	0.12	0.65	0.20	1.30	2.59	0.71	2.23	0.00	1.75	0.00	1.26	0.00	10.81
Miller-Thorne Ranch						5.26	0.26	1.00	0.40	1.05	1.30	T.	
Mills (No. 1)	0.17	0.56	0.10	0.80	3.90	3.05	1.38	2.15	1.70	T.	0.78	0.00	14.59
Mills (near)	0.30	0.75											
Mineral Hill	0.43										1.98	0.10	
Mogollon				0.22	0.00	1.25	1.50	3.30	0.00	0.11	0.13	0.07	
Montoya	0.10	0.28	1.50	1.83	1.09	2.38	0.20	0.85	1.55	0.00	1.49	0.00	11.27
Mosquero	0.14	0.27	0.08	0.94	3.67	2.57	0.37	0.59	0.55	0.00	0.53	0.08	9.79
Mountainair (near)	0.33										1.10	0.02	
Mountain Park	2.71	0.09	0.34	1.22	1.01	0.67	1.96	1.84	0.79	2.03	1.26	0.82	14.24
Nara Visa	0.12	0.15	0.40	1.86	3.38	2.79	[1.08]	0.85	0.04	0.04	0.72	0.00	[11.43]
Newman	0.38	0.00	0.00	0.40	0.42	T.	1.37	2.37	0.23	T.	0.11	0.22	5.50
Nogal (near)	2.07	0.31	0.87	1.52	2.09	1.99	1.19	3.12	1.47	0.55	1.55	0.88	17.61

[4] Name changed from Wagon Mound.

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
New Mexico—Continued.													
Olive (near)	0.16	0.08	1.21	2.05	2.03	2.12	1.14	0.44	0.55	0.30	0.54	0.08	10.70
Orogrande	0.65	T.	T.	0.25	0.55	0.22	1.16	0.83	0.90	0.93	0.25	0.11	5.85
Oscura	1.17	T.	0.29	0.68	0.55	1.04	0.43	1.25	0.62	0.20	0.66	0.00	6.89
Palma	T.	0.98	0.68	0.85	0.04	0.70	0.12	0.55	1.00	0.00	0.63	0.00	5.55
Palo Verde	0.21	0.60	0.15	0.84	1.79	1.06	0.89	1.09	0.76	T.	1.11	T.	8.50
Pasamonte	0.42	0.41	0.35	1.32	2.05	4.25	2.05	1.18	0.62	0.05	0.89	0.10	13.69
Pastura	0.09	0.17	0.36	0.93	0.45	2.36	0.35	0.80	1.15	T.	0.60	0.00	7.26
Pearl (near)	0.13	0.25	0.08	3.60	1.90	0.86	2.21	0.37	2.06	0.53	0.28	0.00	12.27
Pinon (near)	1.03	0.02	.....	.....	.....	2.09	0.36	0.77	0.73	0.48	0.94	T.	.....
Pinos Altos (near)	1.70	0.28	1.11	0.46	0.13	1.41	3.47	1.90	2.77	1.19	1.66	0.09	16.17
Plainview (near)	0.15	0.01	0.07	1.90	1.06	2.58	1.00	1.20	0.53	0.40	0.53	0.00	9.43
Pleasant Hill	0.09	0.20	0.20	2.73	2.18	3.36	2.24	0.95	[0.56]	0.08	0.37	T.	[12.96]
Portales (near)	0.10	0.05	1.64	4.13	3.26	1.88	0.55	0.58	0.10	0.00	0.48	0.00	12.77
Raton (near)	0.18	0.38	0.48	1.14	1.71	0.91	3.91	1.06	1.54	T.	0.22	T.	11.53
Red River Canyon	1.65	0.90	1.68	1.42	1.35	1.27	2.34	2.73	0.92	1.19	1.45	0.89	17.79
Redrock	0.69	0.10	0.57	0.00	0.00	0.50	0.72	1.14	1.06	0.75	1.06	0.45	7.04
Regina	.....	.....	.....	.....	T.	0.66	0.85	1.85	0.85	0.16	1.40	0.04	.....
Richland (near)	0.04	0.10	0.63	3.50	2.22	3.46	1.92	0.77	2.07	0.02	0.52	0.00	15.25
Rio Grande Industrial School	0.00	0.12	0.21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rociada	0.45	1.10	0.79	2.88	1.19	1.36	2.18	4.71	1.14	T.	2.18	T.	17.98
Rodeo	0.10	0.60	0.30	0.15	0.00	T.	0.10	1.75	0.38	0.89	1.09	0.27	5.03
Rosedale (near)	T.	0.03	0.05	0.42	0.07	0.81	1.32	1.25	0.35	T.	0.95	0.12	5.37
Roswell (Weather Bureau)	0.04	0.16	0.72	1.37	1.50	1.69	0.17	0.15	0.13	0.10	0.53	0.01	6.57
Roswell (No. 2)	0.05	0.17	0.75	1.28	1.65	1.75	0.12	0.13	0.18	0.12	0.57	0.01	6.78
Roy	0.18	0.54	0.08	0.35	1.30	0.17	0.42	1.65	0.88	0.00	1.00	T.	6.57
St. Vrain (near)	0.23	0.17	1.02	3.20	0.54	1.92	1.51	0.65	0.52	0.15	0.43	0.06	10.40
San Antone Ranger Station	1.45	1.14	1.87	0.60	0.30	0.73	0.81	1.57	0.35	T.	1.74	2.70	13.26
San Fidel	0.09	0.50	0.08	0.40	T.	T.	0.20	0.40	T.	T.	1.18	0.30	3.15
San Jon (near)	0.11	0.62	1.04	1.81	2.52	1.37	0.29	1.35	0.00	0.18	0.68	T.	9.95
San Marcial	T.	0.07	0.33	0.00	0.75	0.39	0.65	1.05	0.19	0.22	0.48	0.05	4.18
Santa Fe	0.64	0.51	0.44	1.43	0.29	0.74	1.75	1.85	1.07	0.24	1.13	0.20	10.29
Santa Rosa	0.09	0.16	0.59	0.92	1.95	2.52	1.34	0.30	1.11	T.	0.70	0.00	9.68
Schuster Springs Ranger Station	1.81	0.64	1.36	0.83	T.	0.64	0.67	3.36	0.18	0.95	2.73	1.14	14.31
Senorito (near)	0.92	1.40	0.57	0.94	0.37	0.10	0.76	3.72	0.76	0.20	3.37	0.56	13.67
Servilleta (near)	0.14	0.40	0.61	1.68	0.34	2.28	0.43	0.85	0.66	0.42	0.32	0.67	8.80
Silver City	0.98	0.12	0.70	0.18	T.	1.50	2.20	1.95	1.22	1.19	1.72	0.78	12.54
Socorro	[T.]	0.05	0.32	0.55	0.62	0.02	1.10	1.15	0.21	T.	0.84	0.00	[4.86]
Solano	0.13	0.50	0.08	0.75	2.29	2.44	1.05	0.30	0.92	0.00	1.16	0.04	9.66
Springer	0.15	0.51	0.08	1.29	3.60	0.97	2.76	1.55	1.72	0.00	1.46	0.00	14.09
Stanley	0.10	0.35	0.35	0.10	0.55	0.66	0.65	0.16	2.39	0.35	0.65	0.10	6.41
Star Lake	0.54	0.26	0.22	0.89	0.08	0.23	0.61	1.36	0.26	T.	1.38	.....	.....
Tajique (near)	0.83	0.82	1.54	1.31	0.62	1.66	1.47	1.28	0.73	0.11	1.60	0.13	12.10
Taos	0.73	0.43	0.88	1.15	0.32	1.80	0.65	1.28	0.46	0.39	0.65	0.32	9.06
Taos Canyon	0.90	1.77	1.31	1.06	1.09	1.05	2.14	1.13	1.04	0.28	1.46	0.52	13.75
Tatum	0.13	0.13	0.04	3.27	2.83	[2.64]	1.55	1.97	0.16	0.17	0.82	0.00	[13.71]
Taylor	0.14	0.76	0.04	1.25	2.65	0.62	4.13	1.77	1.99	0.00	1.26	0.00	14.61
Texico (near)	0.23	0.74	1.35	6.63	2.30	3.99	0.98	1.02	.....	.....	0.41	.....	.....
Three Rivers	0.53	T.	0.12	0.44	0.20	0.91	0.67	0.86	0.78	0.31	0.63	0.50	5.95
Tijeras Canyon Ranger Station	0.22	0.93	0.46	0.24	0.00	1.38	0.87	1.89	0.49	0.37	0.94	0.02	7.81
Tinaja	.....	.....	.....	.....	.....	.....	0.33	.....	.....	0.38	1.93	1.45	.....
Toadlena	1.92	0.44	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Torrance	T.	0.14	0.54	0.71	0.69	1.21	0.82	0.55	0.35	0.00	0.14	T.	5.15
Trementina	0.14	0.50	0.01	2.43	1.67	2.88	0.44	0.18	0.95	0.02	1.36	0.00	10.58
Tres Piedras	0.63	0.98	0.80	1.22	0.52	1.50	1.26	1.96	0.79	T.	1.34	0.58	11.58
Truchas	0.60	0.74	0.97	1.36	0.66	1.61	1.07	1.85	0.25	0.23	1.22	0.90	11.46
Trujillo (near)	T.	0.64	1.40	0.90	3.28	3.86	1.40	T.	.....	.....	.....	.....	.....
Tucumcari (near)	0.13	0.13	1.37	2.64	2.04	1.24	1.65	0.67	1.20	0.37	0.93	0.00	12.37
Tucumcari (No. 2)	0.25	0.34	1.70	1.95	1.36	1.86	2.32	1.06	1.67	0.34	0.93	0.00	13.78
Tularosa	0.48	T.	0.20	0.91	0.26	0.74	0.94	0.39	0.80	0.46	0.50	0.36	6.04
Turney's Ranch	0.30	0.00	0.06	0.30	0.00	0.11	0.25	1.80	1.13	2.11	0.43	0.20	6.69
Tyrone	0.84	0.42	0.19	0.39	0.00	0.61	0.74	1.22	1.79	1.10	2.10	0.75	10.15
Vallecitos (near)	2.54	1.36	1.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Valmora	0.35	1.00	0.08	1.20	2.53	3.70	3.42	0.37	1.45	0.10	0.94	0.00	15.14
Vance (near)	T.	0.75	0.25	1.50	2.63	1.38	2.39	1.37	0.10	0.06	0.20	T.	10.63
Vaughn	T.	0.27	0.39	0.90	0.25	0.60	2.89	T.	0.55	T.	0.40	T.	6.25
Virsylvia	0.41	0.51	.....	0.89	1.12	0.47	.....	8.16	.....	0.02	0.41	0.00	.....
Weed Ranger Station	1.70	0.06	0.21	2.81	0.96	2.64	2.06	1.12	2.78	1.41	1.11	0.27	17.13
White Oaks (near)	1.54	0.18	0.42	1.96	1.22	0.46	0.94	2.02	0.45	0.06	0.75	0.35	10.35
White Tail	0.60	0.10	0.17	1.19	1.00	0.87	1.93	2.13	1.64	0.30	.....	.....	.....
Whitewater	.....	.....	.....	.....	0.00	0.25	0.13	0.42	.....	0.34	1.68	.....	.....
Willard (near)	0.25	0.43	0.33	1.12	0.15	0.56	1.90	0.52	.....	.....	0.82	0.03	.....
Winsor's Ranch	0.80	1.59	0.69	1.68	0.89	1.74	2.00	3.28	1.48	0.44	2.46	0.55	17.60
New York.													
Adams Center	3.68	3.34	3.96	4.41	2.11	6.73	.....	.....	.....	.....	.....	.....	.....
Addison	1.66	0.88	3.30	2.08	2.00	9.24	1.41	5.16	1.69	2.35	0.73	1.80	32.30
Albany	2.00	1.46	4.69	2.26	3.68	7.60	1.27	4.19	2.41	1.56	0.90	2.10	34.12
Alfred	1.82	0.99	3.67	2.25	2.34	6.97	3.84	4.57	3.31	2.50	1.27	2.32	35.85
Amsterdam	1.92	2.45	3.25	3.68	3.68	8.47	2.76	4.57	2.32	2.24	1.31	2.57	39.22
Andover	.....	.....	.....	2.40	2.58	8.67	2.98	5.92	2.35	2.28	1.43	3.48	.....
Angelica	1.03	0.41	2.02	1.65	2.70	6.84	2.52	5.60	2.38	2.29	1.55	2.34	31.33
Appleton	1.45	2.19	2.43	2.94	0.90	3.79	2.11	1.50	2.56	3.41	0.86	1.46	25.60
Auburn	1.94	1.57	3.02	2.25	2.74	9.59	2.10	7.58	0.73	2.04	1.94	2.77	38.27
Avon	1.13	1.51	1.98	1.34	2.02	6.14	3.54	2.05	2.23	1.78	0.24	1.12	25.08
Bainbridge	1.96	3.04	3.92	3.59	4.97	5.91	1.97	7.95	1.65	2.51	1.39	1.34	40.20
Ballston Lake	2.23	2.49	4.70	4.48	4.30	6.58	1.65	4.28	1.44	2.55	1.32	2.73	38.75
Bedford Hills	2.73	2.55	5.55	2.65	6.65	7.05	12.40	2.75	2.70	2.25	1.35	4.50	53.13
Binghamton	1.85	1.12	3.95	2.54	2.35	5.87	2.80	6.63	4.13	1.05	1.04	2.13	36.36
Bolivar	3.00	2.49	3.20	2.36	3.95	8.77	2.89	5.37	1.67	2.53	1.48	2.95	40.66
Boyds Corners	1.88	2.15	5.80	2.88	5.85	7.34	7.61	4.56	2.03	2.89	1.24	3.72	48.00
Brockport	2.42	2.18	2.67	1.88	0.97	8.85	3.14	2.57	2.09	2.65	0.91	2.27	32.60
Buffalo	1.44	2.01	3.61	1.56	2.01	3.38	2.52	4.62	1.25	2.70	1.08	3.23	29.41
Canton	1.82	2.92	3.21	3.46	1.19	7.56	1.86	4.25	0.96	2.61	1.66	1.03	32.53
Cape Vincent	1.86	2.27	3.75	3.98	2.58	5.12	2.75	2.58	2.03	4.06	.....	1.10	.....
Carmel	1.52	2.02	5.35	2.56	4.77	8.23	10.79	4.07	2.23	4.74	1.20	3.31	50.79

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
New York—Continued.													
Chazy	0.83	1.55	0.48	2.01	1.15	8.82	1.30	3.98	1.15	.....	0.40	1.55	.....
Cooperstown	2.26	2.49	4.77	3.05	4.06	7.37	2.17	6.62	1.43	2.73	.....	.....	.....
Copenhagen	.....	.....	.....	.....	2.43	7.39	0.63	2.28	1.75	1.62	1.95	.....	.....
Cortland	2.17	2.10	4.21	3.03	2.86	15.04	2.62	8.10	1.32	2.04	1.09	2.99	47.57
Cutchogue	3.18	3.79	4.72	2.89	4.06	5.50	2.56	7.50	1.87	2.46	1.39	3.80	43.72
Dannemora	4.95	5.30	3.37	2.97	3.80	7.72	1.01	4.15	0.88	3.89	1.61	2.79	42.44
Dansville	1.10	0.92	2.59	1.29	1.93	3.88	2.33	5.18	3.38	1.39	0.50	1.77	26.26
De Ruyter	2.22	3.24	4.43	3.67	3.22	10.16	3.55	5.98	0.96	2.95	2.29	2.50	45.17
Dolgeville	3.28	3.12	4.31	3.92	5.72	9.89	4.28	5.53	2.48	2.94	1.93	3.31	50.71
Effley Falls	.....	.....	.....	.....	2.82	8.52	2.24	2.78	1.99	2.45	1.15	.....	.....
Elmira	1.51	1.07	3.79	1.57	2.19	8.87	2.43	5.40	1.47	1.89	0.53	1.67	32.39
Farmingdale	1.91	2.56	5.22	2.61	4.42	6.92	6.05	5.45	2.36	3.76	1.35	3.56	46.16
Flushing	2.29	3.36	4.60	2.00	4.54	6.95	5.49	4.97	2.71	1.87	1.24	3.50	43.52
Fredonia	2.42	2.26	3.75	3.05	2.36	5.21	2.97	4.20	1.38	2.34	2.51	3.48	35.93
Gabriels	2.81	2.88	.....	.....	.....	.....	2.30	4.43	1.57	2.63	3.57	1.48	.....
Geneva	2.23	2.17	2.95	2.25	2.50	6.73	3.66	9.14	2.05	2.00	1.22	2.95	39.85
Glens Falls (No. 1)	2.90	2.75	4.89	4.57	4.69	5.62	3.72	5.84	1.88	2.57	1.39	2.87	43.69
Glens Falls (No. 2)	2.56	2.92	4.75	4.55	4.19	6.17	.....	.....	.....	.....	.....	.....	.....
Gloversville	2.76	3.41	4.18	4.17	2.50	9.98	2.04	6.39	1.81	2.89	1.78	3.62	45.53
Greenfield Center	1.89	4.25	4.38	4.41	4.01	6.75	2.62	5.48	1.97	2.65	1.37	5.31	45.09
Harkness	0.99	2.07	1.56	2.84	1.97	7.31	0.95	3.12	1.50	2.16	1.15	1.19	26.81
Haskinville	1.77	1.12	3.11	1.90	3.80	7.69	2.78	5.00	3.71	2.40	1.22	2.11	36.61
Hemlock	2.10	2.17	3.24	2.02	1.89	5.88	3.43	3.79	2.77	1.92	1.28	2.40	32.89
Hoffmeister	3.90	4.43	4.95	6.03	5.03	13.42	4.95	5.95	2.87	4.23	2.76	3.16	61.68
Hoosick Falls	1.85	1.84	3.27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hudson	1.58	1.88	4.35	3.93	3.67	7.45	3.11	7.84	1.29	1.86	0.46	2.65	40.07
Indian Lake	2.18	3.01	2.82	3.54	4.54	10.31	1.38	4.53	2.75	2.93	2.12	2.28	42.39
Ithaca	2.63	1.12	4.07	2.52	3.20	6.52	1.70	8.66	1.50	1.91	1.16	2.19	37.18
Jamestown	.....	.....	.....	.....	.....	.....	3.72	9.03	1.32	3.16	1.84	3.04	.....
Jeffersonville	1.75	2.30	4.99	2.61	2.74	5.07	2.54	6.36	1.54	3.13	1.00	2.69	36.72
Lake Colden	2.25	4.65	4.17	3.95	3.77	11.59	3.56	3.59	2.27	3.41	.....	.....	.....
Lake Placid Club	1.97	4.33	3.72	4.45	2.64	7.28	1.99	3.31	1.26	2.09	2.15	2.56	37.75
Lauterbrunnen	0.84	1.38	1.95	0.44	3.33	6.02	3.67	3.55	2.39	1.39	0.55	2.50	28.01
Little Falls (No. 1)	2.28	3.53	3.76	2.82	4.80	9.07	3.60	5.71	1.68	2.58	1.66	2.53	44.02
Little Falls (No. 2)	3.16	2.50	4.03	3.73	4.91	8.94	3.69	4.11	2.23	2.76	2.10	2.77	45.02
Lockport	1.45	2.14	2.09	.....	1.52	7.17	2.18	3.73	1.81	3.67	1.19	1.53	.....
Lowville	3.86	3.37	3.22	4.01	1.82	8.03	1.74	4.45	2.14	1.88	1.38	3.42	39.32
Lyons Falls	.....	.....	.....	.....	3.27	9.68	1.87	2.53	2.13	2.61	1.64	.....	.....
Mechanicsville	1.29	1.98	4.25	3.91	4.56	6.97	1.60	3.85	1.84	2.34	1.30	2.12	36.01
Medford	4.33	3.06	4.74	3.07	4.86	8.59	3.74	5.38	1.88	2.41	1.59	4.35	48.00
Mohonk Lake	1.72	1.85	3.29	2.64	4.62	7.99	3.78	4.25	1.55	2.45	0.92	.....	.....
Moira	1.40	4.26	3.45	2.17	0.89	9.11	2.70	4.21	0.70	2.61	1.53	1.50	34.53
Morrisville	4.65	.....	3.86	3.73	3.55	10.32	2.05	4.60	1.03	2.37	1.80	2.15	.....
Mount Hope	1.59	3.33	5.79	3.33	5.11	7.25	8.26	3.55	3.61	2.22	1.38	2.57	47.99
Mount McGregor	3.46	4.21	4.76	3.70	2.29	5.73	3.27	3.84	1.35	2.30	1.66	3.50	40.07
Mount Vernon	2.68	3.58	5.17	2.07	4.01	7.03	6.97	3.83	4.32	2.13	1.43	3.79	47.01
New Berlin	2.72	2.54	3.28	2.06	3.83	10.59	2.17	7.31	1.37	1.95	1.81	4.46	44.09
New Lisbon	.....	3.22	5.46	4.19	3.36	9.79	2.54	6.48	1.03	2.12	1.27	1.82	.....
New York City	2.46	2.97	4.35	1.96	3.24	7.86	6.55	5.32	3.05	1.17	1.16	3.29	43.38
North Lake	3.62	5.11	4.92	4.48	4.03	9.71	2.26	4.66	3.27	3.09	2.36	3.32	50.83
Norwich	2.38	2.50	3.64	3.48	4.05	9.10	2.29	7.44	1.50	1.91	1.41	2.38	42.08
Ogdensburg	1.01	1.94	1.29	3.47	1.98	5.81	3.14	3.42	0.95	2.88	1.23	0.51	27.63
Oswegatchie	1.37	2.10	4.36	2.16	4.00	8.34	3.22	5.79	1.86	1.81	0.88	3.75	39.64
Old Forge	.....	.....	.....	.....	3.74	11.17	2.24	4.63	1.88	3.12	2.97	.....	.....
Oneonta	1.44	2.68	4.98	3.30	3.24	7.38	2.18	4.24	1.12	2.10	0.40	2.31	35.37
Oswego	1.41	3.00	3.42	3.63	1.71	5.89	2.56	3.26	2.05	2.72	1.27	2.18	33.10
Palermo	2.62	3.53	3.22	4.10	2.32	9.91	2.89	2.39	2.42	2.39	1.63	2.33	39.75
Penn Yan	2.35	1.03	3.40	1.95	2.14	8.95	2.99	4.91	2.35	2.04	1.19	2.91	36.21
Perrysburg	3.95	2.83	1.87	2.19	2.03	5.01	5.30	4.21	2.05	2.84	2.70	.....	.....
Philadelphia	1.90	3.33	3.22	4.96	1.37	7.63	2.47	2.33	2.08	2.70	1.46	1.78	36.23
Port Jervis (No. 1)	2.09	1.73	3.81	1.93	2.98	11.85	4.88	4.03	1.58	1.66	1.27	3.75	41.56
Port Jervis (No. 2)	1.18	1.51	3.94	2.97	3.89	11.03	3.04	.....	.....	.....	.....	.....	.....
Raquette Lake	.....	4.59	3.26	5.39	.....	.....	2.49	2.78	.....	.....	.....	.....	.....
Rhinebeck	2.16	2.53	5.15	2.64	3.47	6.13	3.12	6.28	2.24	2.58	0.76	3.39	40.45
Rifton	3.37	2.42	4.81	2.77	3.74	7.04	5.12	5.28	1.34	2.38	0.88	3.97	43.12
Rochester	2.41	2.63	3.11	2.40	1.35	8.14	2.17	2.53	1.85	2.30	1.12	3.01	33.02
Romulus	2.04	2.15	3.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Roslyn	2.23	3.69	4.33	3.98	4.23	7.93	4.96	5.13	3.17	2.84	1.43	3.04	46.96
Roxbury	2.57	2.42	4.45	4.61	3.63	8.72	2.70	6.67	1.56	2.52	1.72	3.10	44.67
Salisbury	2.06	2.48	2.79	2.97	6.19	11.36	4.25	6.81	2.68	3.64	2.68	2.32	50.23
Scarsdale	1.65	1.30	2.25	1.65	4.05	7.71	9.25	3.49	3.37	2.95	1.61	3.30	42.58
Setauket	2.54	3.36	4.75	2.70	4.55	6.34	3.20	3.85	2.29	2.63	2.22	3.55	41.98
Sharon Springs (No. 1)	2.69	2.72	3.68	3.68	3.90	8.84	3.17	4.44	2.70	2.25	1.31	1.96	41.34
Sharon Springs (No. 2)	2.39	3.13	4.76	3.19	4.22	8.40	2.81	.....	1.78	2.52	.....	2.45	.....
Sherburne	1.95	2.76	6.19	4.08	4.02	9.24	.....	.....	.....	.....	3.26	1.89	.....
Shortsville	1.91	1.73	2.75	2.36	1.62	7.28	3.79	7.18	2.79	1.77	1.10	2.19	36.47
Silver Bay	.....	2.31	2.58	4.67	2.45	5.26	1.03	3.62	1.36	2.34	2.22	.....	.....
Skaneateles	2.42	2.44	4.37	3.40	3.58	9.93	2.34	6.45	1.05	2.53	2.20	3.67	41.38
Sodus	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.37	.....
Southeast Reservoir	1.86	2.21	5.41	2.67	4.24	6.94	8.79	3.69	2.56	3.34	1.26	3.79	46.76
Spier Falls	1.90	3.26	3.99	3.54	3.28	5.54	2.58	5.00	1.54	2.61	1.48	3.55	38.27
Stillwater Reservoir	.....	.....	.....	.....	3.57	10.24	3.66	3.49	2.13	2.75	2.31	.....	.....
Syracuse	3.54	2.83	4.68	2.47	3.84	15.92	2.39	4.87	1.31	2.25	1.23	2.84	48.17
Trenton Falls	3.35	3.64	4.32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tribes Hill	2.00	2.05	2.55	3.90	3.16	7.30	1.96	4.47	1.53	1.64	1.12	2.60	34.28
Troy	1.42	1.33	4.33	1.92	3.60	8.07	1.13	3.60	1.62	1.78	1.10	2.35	32.25
Utica (No. 2)	2.18	1.96	2.54	1.91	4.94	8.01	3.18	6.45	1.86	2.22	2.04	2.28	39.57
Walden	1.29	1.60	4.24	3.35	3.96	6.47	3.79	3.75	1.84	2.27	0.84	4.22	37.62
Walton	1.59	1.75	4.68	3.59	3.05	7.94	5.67	6.31	1.96	2.81	1.25	2.12	42.72
Wanakena	1.55	3.53	2.89	7.02	2.40	7.97	3.90	2.77	1.80	2.44	2.26	1.37	39.90
Wappingers Falls	2.25	1.98	4.43	2.99	3.48	5.18	4.12	3.42	1.72	1.97	1.13	3.91	36.58
Warwick	2.09	1.92	3.98	2.95	4.84	5.12	3.72	5.40	1.93	1.99	1.02	3.84	38.80
Watertown	2.08	3.38	2.78	5.21	3.04	8.01	2.09	1.96	2.31	2.82	1.38	1.84	37.40
West Berne	1.94	0.90	3.89	3.24	3.30	5.24	1.38	4.78	2.65	2.07	1.04	2.07	32.50
West Point	2.27	3.05	5.60	2.00	2.10	6.04	5.34	1.20	2.85	1.50	0.25	1.94	34.14
Willard	.....	.....	.....	.....	.....	6.81	2.49	7.24	2.35	.....	.....	.....	.....
York	1.63	2.23	2.55	2.22	1.76	6.06	3.83	2.52	1.99	2.03	0.89	2.17	29.88

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
North Carolina.													
Albemarle	4.95	7.21	8.14	5.21	3.91	4.29	5.94	7.01	3.00	4.42	0.86	3.85	58.79
Altapass	2.75	3.25	7.90	2.30	8.50	3.30	6.00	3.30	0.01	6.21	0.08	4.81	48.41
Andrews	7.51	5.25	8.31	5.34	.....	.....	5.69	2.24	4.36	.....	.....	.....	.....
Asheville	2.84	4.06	4.69	3.37	2.59	3.68	4.55	1.64	1.19	3.36	0.26	4.93	37.16
Banners Elk	2.13	2.97	7.68	3.30	4.63	4.95	6.88	3.90	1.35	4.15	0.85	4.40	47.19
Beaufort	5.25	4.91	6.07	2.23	5.30	12.01	7.68	8.07	3.36	4.97	0.62	4.92	65.39
Belhaven	4.45	4.50	.....	3.35	1.40	5.62	10.87	10.35	1.65	5.10	0.50	6.20	.....
Brevard	5.34	4.57	9.41	4.00	8.11	8.44	8.32	2.65	1.05	3.79	0.85	6.94	63.47
Brewers	3.28	4.53	7.54	3.94	8.02	6.03	9.60	3.80	0.76	5.77	0.43	3.40	57.10
Bryson City	7.73	5.17	10.02	6.77	4.73	4.81	5.54	4.19	2.98	2.23	1.82	9.07	65.04
Caroleen	5.34	6.52	6.58	6.65	4.56	4.58	4.58	3.39	1.80	4.25	0.91	5.25	54.41
Chapel Hill	5.85	6.53	7.81	3.02	5.22	6.07	3.92	2.83	0.10	5.67	0.55	3.81	51.38
Charlotte	5.24	7.12	6.32	6.59	3.72	2.74	5.19	2.74	1.23	5.32	0.92	4.47	51.60
Cullowhee	6.37	4.45	7.32	3.00	2.91	2.36	2.40	1.71	1.20	1.67	0.85	6.80	41.04
Durham	4.32	4.94	6.63	3.06	5.70	3.71	4.95	2.71	0.03	5.25	0.32	2.86	44.48
Eagletown	4.60	6.95	7.16	2.79	.....	.....	12.52	7.02	.....	.....	.....	.....	.....
Edenton	4.18	9.85	6.95	3.30	5.50	10.30	11.10	7.90	2.20	2.37	0.62	5.80	70.07
Elizabeth City	4.65	9.31	5.99	2.50	2.60	8.87	9.35	5.23	4.64	2.42	1.12	4.62	61.30
Elizabethtown	3.28	4.49	6.75	2.44	5.45	6.54	4.94	8.54	1.02	6.23	0.50	5.03	55.21
Elkin	3.52	4.22	5.97	3.96	6.04	6.29	7.07	3.32	1.91	4.45	0.34	3.20	50.29
Ellijay	7.01	6.37	9.92	4.85	7.34	4.04	5.28	2.47	2.37	3.14	1.21	9.16	63.16
Enfield	4.23	6.35	6.37	3.71	3.63	6.51	6.03	4.14	1.85	3.66	0.61	5.22	52.31
Fayetteville	3.87	6.77	6.02	3.63	3.76	9.40	9.36	9.02	0.82	5.14	0.91	5.80	64.50
Goldsboro	4.71	7.99	5.94	4.86	7.70	11.41	7.58	5.19	0.92	4.91	0.40	4.57	66.18
Gorge	3.68	4.36	9.93	4.30	9.41	7.96	8.55	3.93	0.43	4.32	0.35	4.04	61.26
Graham	4.20	5.51	7.13	4.56	5.27	2.56	12.10	3.46	0.57	5.37	0.25	3.57	54.55
Greensboro	3.62	5.06	8.20	4.63	5.82	9.07	5.20	3.43	0.29	4.00	0.27	4.37	53.96
Greenville	4.71	8.02	6.06	3.72	4.98	12.35	4.49	4.25	1.45	4.33	0.22	5.14	59.72
Hatteras	7.58	5.55	6.95	2.27	8.32	8.70	5.73	8.71	7.89	2.48	0.79	6.06	71.03
Henderson	5.09	4.94	6.71	2.55	5.88	6.91	8.88	5.79	0.05	7.01	0.34	3.80	57.95
Hendersonville	4.54	5.46	7.62	4.68	5.66	5.34	9.08	.....	.....	.....	0.75	7.62	.....
Hickory	3.79	5.12	6.97	4.07	3.53	6.02	5.18	3.13	0.78	5.54	0.24	3.77	48.14
Hiddenite	3.70	4.77	7.17	3.66	6.16	4.11	9.54	5.14	1.66	4.74	0.16	3.86	54.67
Highlands	.....	.....	11.28	4.44	7.72	4.18	6.27	3.22	2.53	4.30	1.40	10.26	.....
High Point	4.05	4.13	7.57	3.87	5.74	8.74	4.88	4.52	1.46	3.58	0.34	3.77	52.65
Hot Springs	4.50	3.11	4.53	4.27	3.38	5.03	7.24	1.88	1.29	1.82	1.21	6.84	45.10
Jefferson	3.05	.....	.....	5.31	5.96	5.76	9.34	1.96	1.06	5.18	0.56	5.24	.....
Kenansville	.....	.....	.....	.....	.....	.....	.....	.....	.....	7.64	0.50	4.88	.....
Lenoir	3.95	4.57	7.07	3.33	5.47	3.78	8.70	5.08	0.96	4.08	0.18	3.35	50.52
Lincolnton	4.60	6.58	5.16	.....	.....	5.16	4.44	5.71	2.56	5.44	.....	.....	.....
Louisburg	4.99	5.28	7.02	2.88	5.45	4.08	6.39	1.80	T.	3.92	0.33	3.94	46.08
Lumberton	2.54	6.20	6.53	3.10	4.93	7.50	6.38	9.74	1.73	6.73	0.76	6.04	62.18
Manteo	4.90	5.14	6.26	1.54	3.36	6.46	11.72	11.82	4.36	6.86	0.04	3.80	66.26
Marion	4.35	4.73	8.74	4.21	11.01	5.29	10.08	7.18	1.76	4.94	0.25	5.19	67.73
Marshall	3.45	3.41	5.52	3.27	2.58	3.82	7.16	2.81	1.51	1.97	0.32	5.64	41.49
Moncure	4.54	6.82	6.06	3.46	3.76	6.62	4.31	3.02	0.41	4.39	0.44	3.41	47.24
Monroe	3.71	7.88	9.00	7.41	3.63	5.20	3.98	3.71	0.88	4.44	1.15	4.36	55.35
Montreat	4.64	4.63	6.92	4.26	6.62	3.07	3.62	3.85	2.79	4.49	0.46	5.78	51.13
Morganton	3.89	5.28	5.69	4.10	5.72	4.40	6.15	4.08	0.46	4.18	0.20	4.55	48.70
Mount Airy	3.68	5.29	8.89	3.20	7.90	9.79	.....	1.81	.....	.....	.....	.....	.....
Mount Holly	5.62	8.35	5.64	6.30	4.57	4.84	7.72	1.90	1.88	5.25	1.14	4.03	57.24
Mount Mitchell	.....	.....	.....	.....	.....	.....	.....	.....	2.93	5.55	1.07	.....	.....
Murphy	5.47	4.82	10.43	5.28	4.35	5.78	5.50	7.34	1.98	2.50	1.44	9.65	67.54
Nashville	4.86	8.42	6.22	3.22	5.31	7.50	11.36	3.97	3.01	6.10	0.57	3.94	64.48
Neuse	4.92	6.17	5.73	2.87	2.15	4.91	5.99	3.65	0.25	5.09	0.56	3.56	45.85
Newbern	5.45	5.25	7.34	4.06	2.65	8.96	7.74	8.46	0.82	5.50	0.40	7.56	64.19
New Holland	3.27	4.92	6.16	2.02	3.25	6.69	9.23	9.82	4.14	2.95	0.40	7.29	60.14
North Wilkesboro	4.01	5.03	5.43	3.20	7.49	5.45	9.57	2.86	0.07	5.30	0.28	4.86	53.55
Oxford	5.25	5.23	6.37	3.70	5.80	4.38	5.69	5.69	0.14	5.33	0.28	3.60	51.46
Parker	4.62	4.44	5.44	4.10	3.20	4.57	7.22	1.94	1.22	3.98	1.72	7.04	49.49
Penrose	.....	.....	.....	.....	.....	.....	.....	0.90	1.60	4.15	0.55	4.95	.....
Pinehurst	5.30	7.31	7.51	3.85	3.33	6.39	6.00	6.78	1.47	5.46	0.30	3.86	57.56
Raleigh (Weather Bureau)	4.09	7.14	5.47	2.57	4.05	5.91	4.08	7.10	0.11	3.74	0.36	3.47	48.09
Raleigh (No. 2)	4.52	6.99	5.93	2.59	5.89	4.82	4.35	7.29	0.22	3.55	0.55	3.71	50.41
Randleman	3.86	5.84	7.32	3.31	5.93	5.15	7.54	3.24	0.97	3.94	0.37	3.77	51.24
Red Springs	3.44	6.65	6.62	3.30	2.13	9.91	6.74	8.04	1.32	5.18	1.18	5.51	60.02
Reidsville	4.06	4.39	5.69	3.14	4.53	12.57	7.30	3.21	0.94	3.48	0.25	3.70	53.26
Rock House (No. 1)	9.22	7.17	13.92	5.63	11.95	5.52	9.24	4.32	1.91	4.15	0.81	12.03	85.87
Rock House (No. 2)	9.72	7.35	13.73	5.84	12.34	5.31	9.34	2.57	2.21	3.95	1.23	11.90	85.49
Rockingham	3.47	6.59	7.67	5.68	3.53	4.75	3.89	8.06	3.26	4.67	1.28	4.46	57.31
Rocky Mount (No. 1)	4.61	8.40	6.86	3.85	4.73	4.64	6.34	1.73	0.84	3.85	0.52	4.30	50.67
Rocky Mount (No. 2)	.....	.....	.....	2.57	5.40	5.28	4.85	2.40	1.45	3.20	0.40	4.72	.....
Rougemont	3.65	4.75	6.82	4.92	5.20	5.53	6.40	1.80	0.00	5.80	T.	3.50	48.37
Salisbury	3.88	6.82	6.85	4.75	6.82	3.30	7.51	9.83	0.34	5.14	0.32	3.37	58.93
Sanatorium	3.55	6.56	6.45	3.11	3.65	6.01	5.61	6.56	1.43	4.89	1.04	5.04	53.90
Scotland Neck	5.57	7.52	8.31	3.10	4.14	9.48	9.78	5.76	0.94	5.47	0.48	3.39	63.94
Settle	4.29	5.19	7.76	4.02	7.16	5.25	4.42	4.41	0.76	3.87	0.20	4.69	52.02
Siler City	4.31	5.96	7.98	2.83	3.84	3.47	4.44	5.24	0.66	.....	0.48	.....	.....
Sloan	3.85	4.59	6.58	1.69	10.50	8.04	12.32	10.96	1.52	8.34	1.81	6.30	76.50
Smithfield	4.98	7.32	5.66	3.51	2.80	5.79	7.92	5.41	1.12	4.99	0.47	5.36	55.24
Southern Pines	5.20	6.03	6.40	3.10	2.85	6.30	5.25	9.35	2.33	5.88	1.01	3.17	56.87
Southport	5.33	6.39	4.93	2.83	6.88	7.66	9.71	10.01	1.65	4.53	0.91	6.27	67.10
Statesville (No. 1)	4.84	5.86	5.79	5.03	5.05	4.96	5.35	2.64	0.68	4.89	0.32	3.76	49.17
Statesville (No. 3)	4.72	5.62	5.80	3.37	4.99	3.91	3.60	8.81	1.30	4.90	0.40	3.59	51.01
Statesville (No. 4)	4.79	5.24	5.30	2.99	4.57	3.59	4.36	4.27	0.84	4.48	0.46	3.51	44.40
Statesville (No. 5)	4.35	5.23	6.24	3.98	5.24	4.49	8.14	3.01	0.42	3.44	0.21	3.51	48.26
Stonewall	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.78	.....
Swansboro	4.12	4.63	7.10	2.06	3.63	9.94	9.33	8.38	1.62	4.60	0.82	4.71	60.94
Tarboro	5.20	8.46	7.39	3.02	5.24	12.74	6.11	3.46	1.99	3.44	0.80	4.20	62.05
Tryon	.....	7.00	.....	3.32	9.43	.....	5.69	.....	0.96	3.09	0.43	6.01	.....
Washington	4.36	5.60	5.32	2.70	3.09	7.43	.....	5.99	2.83	2.79	.....	.....	.....
Waynesville	.....	.....	.....	3.75	4.15	2.87	3.86	.....	.....	.....	.....	.....	.....
Weldon	5.11	5.62	6.19	2.20	3.94	7.01	10.26	4.78	0.05	4.11	0.62	3.48	53.37
Wenona	4.39	6.45	4.91	2.30	1.72	10.29	5.68	6.92	3.04	2.63	0.51	6.21	55.05
Willard	3.78	5.00	6.24	1.86	4.59	10.14	8.10	9.94	1.17	4.14	0.63	5.35	70.94
Wilmington	3.57	3.15	4.47	3.26	5.20	7.67	9.64	5.42	7.48	6.40	0.46	3.81	60.53
Winston-Salem	3.96	4.76	6.22	4.06	4.85	4.83	5.29	2.73	1.48	5.30	0.28	3.22	48.98

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
North Dakota.													
Amenia	1.60	2.30	0.73	1.77	3.93	3.77	1.19	0.55	0.20	T.	2.45	1.08	19.57
Amidon	0.48	1.40	0.10	0.95	3.83	7.43	4.93	0.29	0.99	0.70	0.48	0.08	21.66
Arnegard	0.10	0.82	0.80	0.76	3.04	3.78	1.86	0.73	4.42	0.91	1.35	0.45	19.02
Ashley	0.40	2.30	0.90	0.72	3.20	2.35	2.23	1.14	1.31	0.93	3.87	0.10	19.45
Beach	0.34	0.36	0.04	0.35	3.99	4.16	2.60	0.89	1.10	1.22	0.70	0.55	16.30
Berthold Agency	0.39	0.99	0.19	0.66	2.22	4.50	3.05	0.46	3.31	0.43	1.95	0.70	18.85
Bismarck	0.34	1.55	0.70	0.68	2.65	3.24	2.77	0.22	1.93	0.63	1.51	0.94	17.16
Bottineau	0.22	0.31	0.53	0.99	4.21	3.20	1.23	1.83	2.00	0.42	1.39	0.58	16.91
Bowbells	0.35	0.38	1.00	0.51	2.73	3.67	2.73	1.29	1.98	0.67	1.54	1.00	17.85
Bowman	0.52	1.30	0.16	0.64	4.56	4.89	2.81	0.14	0.67	0.49	0.77	0.09	17.04
Cando	0.59	0.92	1.42	1.37	2.56	3.45	1.52	2.19	2.03	0.39	2.22	0.79	19.45
Carson	0.24	2.00	0.77	0.20	1.55	5.16	1.56	0.42	0.90	0.33	2.64	0.84	16.61
Cooperstown	0.90	0.80	0.80	0.75	4.35	2.06	1.35	2.60	1.50	0.36	2.45	0.20	18.12
Crosby	0.36	0.35	0.63	1.22	4.11	1.93	3.24	1.42	2.08	0.39	0.50	0.42	16.65
Devils Lake	0.58	0.64	0.62	0.48	2.71	2.52	0.87	1.72	3.30	0.52	2.38	0.87	17.21
Dickinson	0.22	1.09	0.37	1.21	1.97	6.57	1.92	0.69	1.28	0.58	1.72	0.58	18.20
Donnybrook	0.20	0.90	0.39	1.21	3.39	5.17	2.63	2.13	2.07	1.70	1.31	0.90	22.00
Dunn Center	0.30	1.90	0.05	1.19	2.74	5.30	1.54	1.60	3.06	0.95	2.67	0.74	22.04
Dunseith	0.52	0.30	0.69	0.75	2.49	2.78	0.84	2.17	3.15	0.25	1.82	0.96	16.72
Eckman	0.47	1.10	0.70	0.65	2.44	3.96	3.56	1.97	2.09	0.45	2.92	0.80	21.11
Edgeley	0.45	1.05	0.55	0.76	4.02	2.44	1.34	0.43	1.05	0.65	2.73	0.15	15.62
Ellendale	0.53	1.48	0.87	1.63	3.69	2.17	1.54	0.16	1.21	0.45	2.73	0.34	16.80
Energy	0.10	1.09	0.30	0.10	1.71	3.69	2.16	1.02	3.23	0.50	1.81	1.44	17.15
Epping	0.24	0.75	0.34	0.49	2.12	4.35	2.33	1.35	2.51	0.60	1.40	0.49	16.97
Fessenden	0.40	1.06	0.74	0.95	3.54	4.43	1.64	3.28	2.01	0.67	2.45	1.37	22.54
Forman	0.72	1.74	1.14	2.20	5.69	2.97	2.72	0.85	1.30	0.70	2.62	0.54	23.19
Foxholm	0.56	0.79	0.80	1.10	1.68	4.86	3.95	2.75	1.76	0.60	2.53	0.79	22.17
Fryburg	0.40	1.71	0.25	0.82	4.27	5.27	4.43	0.54	1.26	0.99	1.82	0.36	22.12
Fullerton	1.12	3.16	1.90	1.84	6.72	4.27	1.92	0.55	2.04	0.57	3.17	1.03	28.29
Garrison	0.19	1.37	0.43	1.01	2.72	4.75	3.32	1.69	2.45	1.43	1.84	0.59	21.79
Grafton	0.44	1.35	0.90	0.58	4.17	3.17	3.41	1.83	4.86	0.21	2.40	1.14	24.46
Grand Forks	0.52	1.96	1.06	0.77	4.18	1.81	3.50	2.41	2.11	0.20	3.30	1.01	22.83
Granville	0.20	1.30	0.53	0.40	2.38	3.32	4.02	1.43	1.86	0.50	2.51	0.46	18.91
Hannah	0.80	0.90	1.00	0.62	2.96	1.62	1.18	0.42	5.39	0.41	4.65	2.00	21.95
Hansboro	0.40	1.00	1.85	2.00	3.50	2.59	2.21	1.25	2.71	0.35	3.40	2.00	23.26
Hettinger	0.22	1.50	0.90	0.66	3.56	3.90	2.67	0.75	0.47	0.55	3.17	0.69	19.04
Hillsboro	0.33	1.80	0.50	1.65	4.69	1.22	2.12	1.62	1.21	T.	2.60	0.55	18.29
Howard	0.12	0.42	1.70	1.27	3.60	0.64	2.39	0.89	2.99	0.80	1.47	0.48	16.77
Jamestown	0.62	1.43	0.95	0.98	6.82	7.34	1.31	1.61	1.62	1.78	1.00	0.32	25.78
Lamoine	0.25	0.57	0.50	0.81	2.53	3.51	2.20	1.55	2.13	0.25	0.40	0.55	15.25
Langdon	0.70	0.10	2.05	0.53	5.01	4.12	2.96	1.47	5.22	0.20	1.88	0.53	24.77
Larimore	0.50	1.40	0.90	0.96	5.24	2.91	6.15	2.77	6.94	0.00	4.64	0.73	33.14
Linton	0.28	1.20	0.20	0.83	3.50	1.89	1.52	0.30	1.52	0.49	2.69	0.34	14.76
Lisbon	1.45	2.10	0.80	2.20	3.95	5.25	2.11	0.80	0.78	0.33	3.53	0.32	23.62
McClusky	0.70	1.60	0.45	0.80	3.48	2.37	3.31	1.15	0.82	0.70	1.50	0.85	17.73
McHenry	0.80	1.30	1.10	1.04	4.32	2.95	2.86	1.98	1.52	0.79	2.42	0.53	21.61
McKinney	0.45	1.00	1.40	0.55	2.86	3.12	3.35	2.02	2.10	0.50	2.63	0.60	20.58
McLeod	0.86	2.41	0.61	1.82	4.41	4.50	1.79	0.62	0.70	0.36	2.73	0.70	21.51
Maddock	0.19	1.12	0.45	0.13	4.23	.....	1.44	2.34	3.61	0.42	2.11	0.34	.....
Mandan	0.19	1.85	0.52	0.66	2.05	3.43	3.17	0.31	2.32	0.64	1.60	0.82	17.56
Manfred	0.60	0.92	0.38	1.17	3.27	5.13	1.73	2.71	1.84	0.68	2.06	0.80	21.29
Marmarth	0.48	0.97	0.49	.....	.....	.....	.....	.....	.....	0.65	0.57	0.20	.....
Mayville	0.50	1.00	0.65	0.31	4.60	1.60	3.98	.....	.....	.....	4.66	0.92	.....
Melville	0.32	1.30	0.80	1.43	4.95	2.81	1.42	4.70	1.93	1.35	2.62	0.30	23.33
Medora	0.20	.....	.....	0.66	2.85	.....	.....	.....	.....	.....	.....	.....	.....
Minot	0.23	2.12	0.60	0.55	2.46	3.60	2.79	1.75	1.12	0.36	3.33	1.33	20.24
Minto	0.15	1.76	0.93	0.51	3.57	4.30	2.55	2.04	2.88	0.12	2.66	1.18	22.65
Mott	0.93	1.41	0.62	0.81	1.44	5.23	3.06	0.65	0.19	0.64	2.39	0.22	17.50
Napoleon	0.20	1.00	0.10	0.68	2.39	2.68	1.75	0.37	2.13	0.70	2.52	T.	14.50
New England	0.87	1.20	0.67	0.51	2.62	6.05	2.54	0.22	0.15	0.60	2.40	0.68	18.52
New Salem	0.12	1.61	0.69	0.29	2.04	4.48	2.91	0.79	1.68	0.59	3.73	1.14	20.07
Park River	0.69	0.32	0.62	0.58	5.25	4.66	3.76	1.49	3.48	0.26	2.75	0.31	24.17
Parshall	0.10	1.20	0.20	0.05	2.83	4.20	1.95	2.08	2.68	0.70	0.97	0.80	17.76
Pembina	0.40	1.00	1.60	T.	2.70	3.60	0.90	0.30	5.35	0.00	5.33	1.28	22.46
Pettibone	0.55	0.90	0.23	0.15	3.45	4.26	.....	.....	2.32	0.67	1.88	0.85	.....
Power	0.95	1.40	0.91	1.65	4.07	3.10	4.05	1.39	0.35	0.30	4.34	.....	.....
Powers Lake	0.60	0.70	0.45	0.40	1.23	3.70	2.61	1.69	1.50	0.90	0.75	0.70	15.23
Richardton [5]	0.40	.....	.....	.....	.....	7.54	1.52	5.02	2.22	0.36	2.39	0.77	.....
Skaar	0.90	0.95	0.40	1.20	5.10	4.48	1.80	1.82	3.30	0.70	1.25	0.25	22.15
Steele	0.27	1.40	0.65	1.08	2.88	6.24	3.89	1.00	1.91	1.70	1.59	0.44	23.05
Towner	1.00	0.80	0.30	0.35	2.55	3.04	3.92	0.89	2.56	0.15	3.00	0.40	18.96
Turtle Lake	0.28	1.23	0.46	0.70	1.98	2.69	2.04	1.59	1.77	0.33	1.55	0.96	15.58
Valley City	1.07	3.34	1.26	1.17	4.21	2.61	.....	.....	.....	0.13	2.52	0.15	.....
Wahpeton	0.58	1.80	0.54	3.15	1.74	5.64	1.23	0.61	0.36	0.20	2.31	0.00	18.16
Walhalla	0.79	0.38	1.24	0.32	5.63	4.01	0.60	.....	4.69	0.44	3.16	2.43	.....
Westhope	0.20	T.	0.51	0.41	2.38	2.45	2.10	2.14	2.36	0.45	2.39	T.	15.39
Williston	0.51	0.50	0.58	1.37	2.64	4.28	3.18	1.86	1.91	1.06	1.37	0.74	20.00
Willow City	0.50	1.40	1.10	0.59	2.01	2.71	1.01	2.46	2.18	0.33	2.39	0.96	17.54
Ohio.													
Akron	1.23	1.23	3.48	3.76	4.40	2.29	4.60	3.23	4.42	2.16	1.48	3.05	35.31
Amesville	2.13	1.08	5.20	4.94	6.39	5.07	3.98	7.47	1.57	2.86	1.00	1.42	42.21
Ashland	1.30	1.50	3.45	4.21	6.30	1.95	3.03	2.45	2.65	0.97	1.27	2.79	31.87
Bangorville	1.90	2.42	4.90	4.34	7.37	7.18	3.75	3.05	0.81	1.29	1.56	4.21	42.78
Batavia	1.50	1.54	3.67	4.13	4.09	1.71	2.47	5.07	3.89	2.50	1.74	3.44	35.75
Bellefontaine	1.21	1.92	4.05	5.17	6.59	2.20	4.29	3.59	3.01	0.64	2.39	2.06	37.12
Bellpoint	1.37	1.24	3.92	4.91	5.39	3.43	4.20	2.60	2.01	0.94	1.79	3.16	34.96
Benton Ridge	1.95	1.26	2.32	.....	8.45	3.47	4.32	2.35	3.47	1.52	1.15	3.61	.....
Beverly	1.08	1.13	5.31	5.15	4.82	5.63	3.82	3.89	1.41	2.85	0.90	2.51	39.00
Bowling Green	1.28	0.79	3.54	3.98	5.90	3.33	2.32	1.97	3.36	1.03	0.87	2.70	31.07
Brilliant	1.82	1.82	5.01	4.74	3.70	4.58	1.85	1.75	3.36	2.42	2.13	.....	.....
Bucyrus	1.75	1.78	4.86	4.57	6.01	5.10	4.52	3.02	2.94	1.13	1.40	4.11	41.19
Cadiz	0.82	1.80	4.98	4.71	3.20	2.55	3.21	2.65	5.80	1.96	1.84	1.43	34.95
Cambridge	1.82	1.33	5.17	4.14	4.06	5.57	2.81	3.99	1.58	2.36	1.42	2.75	37.00
Canfield	1.35	1.59	4.27	4.71	3.64	2.35	5.52	2.95	2.08	1.65	2.62	2.00	34.73

[5] Record at Taylor from January to July.

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Ohio—Continued.													
Canton	1.70	2.27	4.72	4.13	3.84	3.55	3.00	2.83	6.43	2.38	0.92	3.10	38.87
Catawba Island	1.49	1.37	4.58	3.58	2.10	1.19	4.11	1.48	1.60	1.10	2.12	2.71	27.43
Chillicothe	1.95	1.65	6.50	5.35	4.30	1.78	4.61	3.11	2.65	1.76	1.22	2.85	37.73
Chilo	2.09	2.19	5.70	3.69	3.36	1.42	2.11	2.45	4.46	1.79	1.10	4.18	34.54
Cincinnati (Abbe Observatory)	2.07	1.68	6.56	4.32	2.09	1.77	2.45	5.60	2.93	1.23	1.88	4.00	36.58
Cincinnati (Government Building)	2.10	1.81	7.19	4.17	3.23	2.03	2.15	5.46	3.95	1.18	1.72	3.73	38.72
Circleville	1.93	2.01	7.31	6.75	4.81	1.72	4.84	4.63	3.14	1.84	1.54	2.90	43.42
Clarington	2.39	1.73	5.92	4.39	5.61	.....	.....	4.25	4.63	2.12	0.76	3.01	.....
Cleveland (Weather Bureau)	1.52	1.31	4.02	2.10	2.42	2.66	3.98	1.20	1.60	1.58	1.37	2.45	26.21
Cleveland (St. Ignatius)	1.39	1.36	4.17	2.03	2.01	2.84	4.16	1.20	1.96	1.46	1.39	2.37	26.34
Columbus	1.80	1.58	4.54	3.05	5.26	3.14	2.29	1.94	2.68	1.56	1.57	2.69	32.10
Coshocton	1.41	1.75	4.22	5.45	3.42	2.68	2.95	2.78	5.00	2.64	1.43	2.32	36.05
Dam No. 28, Ohio River	2.22	2.56	6.36	2.90	4.16	2.58	4.85	1.82	.....	1.98	1.11	6.34	.....
Danbury	1.45	1.26	4.59	3.62	2.64	2.74	4.65	2.39	2.21	1.70	1.86	2.85	31.96
Dayton (Weather Bureau)	1.43	1.47	5.81	5.38	4.16	1.54	4.49	2.51	2.46	1.10	1.79	3.62	35.76
Dayton (Boyer)	1.46	1.83	6.55	6.23	5.98	1.83	5.65	2.96	2.34	1.33	2.06	3.91	42.13
Defiance	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.77	3.88	.....
Delaware	1.20	1.47	3.62	3.86	5.41	4.34	5.09	2.95	1.64	1.28	1.44	2.94	35.24
Demos	2.08	1.86	5.29	3.91	3.05	4.22	1.72	1.89	4.60	3.22	1.33	2.87	36.04
Dennison	1.83	1.75	4.60	3.56	4.43	1.85	4.74	3.25	3.69	2.04	1.79	2.30	35.83
Dover	1.31	1.60	3.65	3.34	3.73	3.71	4.82	2.16	2.51	1.66	1.55	2.19	32.23
Dublin	0.95	1.07	3.96	3.61	4.68	4.33	2.14	2.19	1.37	1.14	1.64	2.81	29.89
Eaton	1.22	1.78	6.15	7.96	3.59	1.27	3.11	3.87	3.09	1.25	2.49	4.32	40.10
Fernbank	2.18	1.69	6.96	3.91	1.87	1.13	2.23	4.28	4.23	0.54	1.93	4.18	35.13
Findlay	1.48	1.20	2.99	4.56	9.39	3.60	4.85	2.88	3.96	1.20	1.20	3.62	40.93
Frankfort	1.86	2.03	6.85	5.32	3.82	1.86	4.49	.....	.....	.....	.....	.....	.....
Fremont	1.15	1.24	3.49	5.49	5.07	4.09	3.32	2.12	2.27	1.67	1.25	3.16	34.32
Gallipolis	2.13	3.09	6.73	3.55	3.82	2.44	1.94	3.20	3.69	2.22	1.12	4.62	38.55
Germantown	1.46	1.74	6.39	5.03	5.94	1.32	2.84	4.74	2.71	1.92	1.94	4.49	40.52
Granville	1.62	0.97	3.67	3.37	5.87	4.94	3.07	5.27	1.80	.....	2.25	2.27	.....
Green	3.41	2.13	7.82	5.13	4.62	2.42	3.91	0.79	1.78	2.90	1.35	3.21	39.45
Greenfield	1.28	1.92	6.91	6.45	3.76	2.08	6.63	4.41	2.75	1.72	1.41	3.41	42.73
Green Hill	1.10	1.22	4.06	2.41	3.00	3.16	4.53	1.92	4.39	1.23	1.13	1.88	30.03
Greenville	1.43	2.02	5.41	7.02	3.43	2.36	4.65	3.02	1.53	1.36	1.60	5.35	39.18
Hamilton	2.13	2.10	8.16	6.09	4.46	1.26	1.86	4.61	4.16	2.18	2.27	5.05	44.33
Hillsboro	2.35	2.27	7.08	5.46	4.85	3.46	8.45	3.05	1.37	1.99	1.47	3.65	45.45
Hiram	1.98	1.28	4.62	4.16	4.64	3.89	3.82	2.43	2.34	2.06	2.10	2.82	36.14
Hudson	2.66	2.06	.....	4.44	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ironton	1.98	2.23	7.44	2.53	3.69	2.07	2.48	2.02	2.88	2.08	1.19	5.75	36.34
Jackson	2.27	2.45	6.63	3.25	3.57	2.28	2.44	3.22	2.66	2.23	0.98	3.66	35.66
Kenton	1.80	1.51	4.51	5.92	7.36	5.58	4.66	4.65	4.42	1.00	1.50	4.23	47.23
Kings Mills	2.34	2.85	8.00	5.42	4.97	1.06	3.69	3.77	3.42	2.09	1.96	4.61	44.18
Kinsman	1.15	1.00	4.31	2.69	3.24	2.51	3.36	1.37	3.25	1.50	2.51	2.32	29.21
Lakeview	1.04	1.76	4.53	5.88	6.10	2.45	5.28	2.22	2.33	0.69	2.40	3.94	38.62
Lancaster	1.95	1.56	6.46	5.44	4.19	2.37	4.54	3.74	2.04	2.42	1.49	2.59	38.79
Larue	1.51	1.70	4.20	4.93	6.91	3.95	4.62	3.19	2.21	0.74	1.54	4.20	39.70
Lima	1.64	2.02	4.18	5.02	6.12	1.84	5.64	4.47	5.75	1.82	1.61	2.91	43.02
Logan	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.68	1.43	2.22	.....
London	1.53	1.33	5.16	5.32	5.92	1.58	3.21	3.72	1.22	1.15	1.75	3.02	34.86
McArthur	1.92	1.64	6.78	3.88	2.77	2.52	3.72	3.15	3.20	2.67	1.16	3.63	37.04
McConnelsville	1.87	1.74	6.09	4.83	3.50	4.98	2.73	4.08	2.56	2.96	1.35	2.67	39.36
Madison	1.41	1.00	3.72	1.73	2.25	2.51	4.16	3.53	2.74	1.63	2.42	2.50	29.60
Mansfield	1.30	1.91	4.23	4.48	5.87	5.02	3.52	2.39	0.69	1.39	1.51	3.52	35.63
Marietta (No. 1)	2.30	1.60	6.05	5.81	4.13	5.16	4.62	6.64	2.86	2.99	0.91	3.32	46.39
Marietta (No. 2)	2.79	2.02	5.59	6.28	4.72	5.84	5.41	6.30	2.95	2.95	1.18	3.41	49.44
Marietta Experiment Farm	1.93	1.68	5.71	4.66	5.02	5.84	6.13	5.37	2.46	3.12	1.02	3.64	46.58
Marion	1.56	1.87	4.69	4.10	6.28	4.83	4.35	3.68	2.22	0.94	1.67	4.18	40.37
Marysville	1.50	0.94	4.78	4.57	6.42	4.36	2.04	2.08	4.93	0.69	2.18	3.73	38.82
Medina	1.63	1.80	4.12	3.69	4.60	3.64	4.14	1.92	3.48	1.41	1.39	2.33	34.15
Middleport	2.44	1.77	7.14	3.90	3.73	3.50	3.49	4.52	3.89	3.26	1.12	3.92	42.68
Milfordton	0.70	0.89	3.17	4.26	5.87	2.31	3.46	.....	.....	1.45	1.57	.....	.....
Millersburg	1.42	1.37	3.43	3.16	3.66	2.32	3.83	4.59	2.34	1.74	1.53	3.20	32.59
Milligan	.....	2.03	.....	.....	.....	.....	5.02	.....	3.31	2.39	1.46	.....	.....
Millport	1.47	1.61	4.38	3.19	3.72	4.38	3.78	1.64	4.51	1.71	1.58	2.59	34.56
Milton Dam	1.53	1.23	3.01	2.74	3.76	1.20	5.34	4.50	1.99	1.55	1.63	1.94	30.42
Montpelier	.....	1.36	6.21	4.06	5.26	2.49	1.41	2.05	2.11	2.03	1.38	2.37	.....
Mount Healthy	2.12	1.70	8.06	5.19	2.87	1.05	2.55	5.87	3.47	1.91	1.97	4.96	41.71
Napoleon	1.65	0.73	5.09	4.05	6.00	2.55	3.14	2.17	6.55	1.46	1.18	3.75	38.32
New Bremen	1.11	1.62	5.00	6.91	2.80	1.98	6.07	2.02	1.41	1.65	1.70	3.30	35.57
New Carlisle	1.12	1.59	5.18	6.01	6.11	2.09	3.55	3.62	2.05	1.92	2.00	3.61	38.85
Norris Point	.....	1.20	4.56	3.83	4.55	.....	.....	.....	.....	.....	.....	1.82	.....
North Bass Island	1.03	0.67	2.62	1.92	2.47	1.84	2.94	2.39	2.68	0.54	.....	1.92	.....
North Royalton	2.45	0.98	3.34	3.55	3.36	2.60	3.34	.....	1.75	3.32	1.50	2.79	.....
Norwalk	1.46	1.76	5.39	4.52	4.98	2.15	5.19	1.94	2.25	1.98	1.12	3.29	36.03
Oberlin	1.32	1.36	4.69	4.49	3.12	1.69	5.29	1.35	1.82	1.00	1.30	3.75	31.18
Octa	1.83	1.53	5.81	4.58	3.44	1.92	3.40	2.67	0.69	1.34	1.41	3.32	31.94
Ohio State University	2.25	1.61	4.72	3.52	5.94	2.88	2.71	2.72	3.43	1.39	1.60	1.78	34.55
Ottawa	1.30	1.27	4.62	4.99	5.79	2.65	3.49	1.39	5.06	1.53	1.08	4.29	37.45
Oxford	1.34	2.07	7.84	6.21	4.11	2.49	1.54	5.06	7.32	2.83	2.09	4.42	47.32
Pataskala	2.13	1.88	4.50	5.11	6.83	3.71	4.32	4.02	1.73	1.96	1.92	3.44	41.55
Paulding	1.36	0.89	5.25	3.03	5.86	3.06	3.19	2.64	3.10	1.87	1.64	4.36	36.25
Peebles	2.01	3.79	8.98	4.43	4.57	2.37	1.72	2.63	0.61	2.51	1.25	3.98	38.85
Philo (No. 1)	1.33	1.28	5.07	4.20	4.59	6.03	2.93	3.90	4.56	2.52	1.27	2.02	40.30
Philo (No. 2)	1.51	1.38	5.98	4.72	5.18	6.16	2.08	4.15	4.32	2.66	1.48	3.12	42.74
Piqua	1.76	2.30	4.76	4.46	7.43	2.25	2.85	3.49	1.46	1.50	2.10	3.72	38.68
Pleasant Hill	.....	.....	4.87	7.33	5.63	4.15	3.36	3.31	1.31	1.26	1.91	3.44	.....
Portsmouth (No. 1)	2.56	2.65	7.27	3.48	5.77	1.46	2.86	2.78	3.63	2.58	0.93	4.29	40.26
Portsmouth (No. 2)	2.14	2.97	6.64	4.03	5.64	1.59	3.10	2.97	3.89	2.63	0.88	4.65	41.13
Prospect	1.70	4.00	4.79	3.95	8.22	3.75	1.85	5.40	1.46	0.40	1.91	4.04	41.47
Put-in-Bay	1.37	0.75	3.30	2.61	2.99	2.48	3.40	1.95	2.25	0.84	1.44	2.93	26.31
Saint Paris	1.64	2.23	5.48	6.92	5.86	2.03	3.33	6.51	2.22	1.25	1.98	4.01	43.46
Sandusky	1.29	1.00	4.43	3.02	2.58	1.96	2.60	2.52	1.86	1.21	1.27	3.07	26.81
Sidney	1.22	2.04	5.61	7.03	2.99	1.98	4.73	4.18	1.12	0.97	2.13	4.17	38.17
Springfield (No. 1)	1.34	1.44	5.01	5.49	6.20	1.46	4.39	3.53	1.80	1.12	1.92	3.50	37.20
Springfield (No. 2)	1.28	1.62	4.86	5.77	6.93	2.81	4.26	3.66	1.96	1.20	2.28	3.63	40.26
Summerfield	.....	1.84	6.19	4.25	6.65	4.97	3.52	5.01	2.24	3.43	1.32	2.34	.....
Tiffin	1.61	1.84	5.26	4.70	6.16	3.00	4.77	1.82	2.86	1.70	1.24	2.95	37.91

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Ohio—Continued.													
Tiltonville	1.71	1.45	4.21	3.00	1.91	2.33	2.21	1.58	2.98	2.41	1.14	1.56	26.49
Toboso	1.49	1.50	3.89	4.34	4.79	7.57	3.81	5.70	1.52	1.82	1.57	2.37	40.37
Toledo	1.54	0.83	5.18	3.33	4.29	2.43	2.55	4.79	2.85	1.98	0.96	3.31	34.04
Upper Sandusky	1.46	1.82	3.79	5.78	8.53	2.88	6.95	1.21	3.13	3.05	1.20	3.38	43.18
Urbana	1.45	1.81	5.74	5.36	5.55	1.89	3.19	4.30	2.97	1.07	2.05	4.42	39.80
Valley Crossing	2.01	1.68	.....	3.86	6.11	2.64	2.55	3.31	2.44	1.78	1.57	2.87	.....
Versailles	1.08	1.55	4.73	6.79	5.03	2.12	5.73	3.05	1.14	1.94	1.70	4.40	39.26
Vickery	1.18	1.22	4.38	3.68	3.69	4.16	2.87	1.89	2.21	1.23	1.23	3.38	31.12
Walbonding	1.52	0.72	5.28	3.83	5.21	3.77	3.36	3.13	1.50	1.87	1.18	3.68	35.05
Wapakoneta	1.41	1.62	4.15	5.52	5.54	2.50	3.48	2.49	4.30	1.79	1.58	3.71	38.09
Warren	1.79	1.28	3.38	3.53	4.31	2.56	2.91	3.68	3.85	1.48	2.17	2.21	33.15
Wauseon	1.18	1.76	3.12	4.16	4.78	3.57	1.25	2.54	4.23	1.22	1.21	2.87	31.89
Waverly	1.85	1.60	7.08	3.93	4.14	2.13	2.99	4.70	2.80	1.79	1.23	3.15	37.39
Waynesville	1.43	1.81	7.38	4.31	6.46	1.16	2.20	4.05	2.52	1.55	1.67	4.22	38.76
West Manchester	1.45	1.85	5.89	7.22	4.65	1.45	3.60	4.52	2.10	1.72	2.21	.....	.....
West Milton	1.06	2.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wickliffe	0.97	1.17	4.02	2.25	2.50	3.46	5.18	3.36	2.94	2.72	2.02	2.44	33.03
Williamsfield	1.63	1.10	3.62	4.48	2.28	3.79	3.06	2.60	2.07	1.78	2.75	2.84	32.00
Wilmington	1.19	2.65	10.10	7.25	3.73	1.90	4.90	3.41	1.49	1.77	2.02	4.28	44.69
Wooster (No. 1)	1.71	2.27	3.80	4.39	5.61	3.04	5.04	1.17	0.89	1.67	1.70	3.13	34.42
Wooster (No. 2)	1.66	1.95	3.60	4.39	4.96	2.61	3.86	1.25	0.88	1.56	1.48	3.18	31.38
Xenia	1.07	3.91	4.88	5.43	4.61	1.68	3.04	3.42	2.20	1.54	1.77	4.21	37.76
Youngstown	1.09	1.39	3.29	4.13	2.79	2.43	5.11	3.29	2.89	1.58	1.46	2.03	31.48
Zanesville	1.69	1.29	4.76	4.43	5.78	4.98	3.56	4.84	2.46	2.57	1.34	3.43	41.13
Oklahoma.													
Ada	1.97	1.20	3.65	7.16	5.40	2.37	3.78	2.79	0.78	1.92	4.68	0.63	36.33
Altus	0.89	0.58	2.61	5.72	4.54	2.22	2.33	0.41	0.50	0.77	1.02	0.59	22.18
Alva	1.28	0.95	4.32	4.27	6.12	0.77	3.23	3.54	1.19	3.18	2.61	0.05	31.51
Antlers	.....	1.83	5.49	13.00	4.76	.....	.....	0.42	1.83	2.60	8.04	1.36	.....
Apache	1.32	1.37	2.95	7.46	7.22	1.74	1.67	0.63	1.50	3.78	1.71	0.34	31.69
Arapaho	1.67	0.59	3.00	6.76	3.70	0.19	1.18	0.38	0.92	2.51	1.45	.....	.....
Ardmore	1.22	1.30	2.28	10.62	7.67	0.84	6.38	0.32	0.58	3.00	4.70	0.78	39.69
Bartlesville	1.26	0.87	5.61	8.23	5.28	0.88	6.14	1.22	2.04	1.90	2.16	0.12	35.71
Beaver	0.55	1.54	4.50	1.39	1.16	3.34	2.72	1.79	1.21	0.24	0.31	0.02	18.77
Billings	2.43	1.45	3.90	8.42	8.65	1.57	4.14	0.52	1.91	4.25	4.18	0.25	41.67
Blackwell	1.57	1.34	3.10	.....	.....	2.41	4.82	0.59	2.25	2.94	5.03	0.10	.....
Bristow	1.67	1.32	5.08	6.04	5.76	3.38	9.05	1.08	.....	2.30	.....	.....	.....
Broken Arrow	2.54	1.18	4.31	5.63	6.37	1.01	7.89	1.99	0.66	2.06	4.77	1.72	40.13
Broken Bow	1.72	4.04	7.30	6.30	4.22	2.58	2.57	0.78	1.70	1.35	2.69	1.56	36.81
Buffalo	0.87	1.40	8.56	1.42	3.83	1.58	2.53	0.70	4.20	0.92	2.24	0.00	28.25
Calvin	2.42	1.94	3.79	6.91	4.17	4.79	3.86	1.76	0.66	1.11	5.97	1.55	38.93
Camargo	.....	.....	.....	.....	3.68	0.24	3.08	1.02	1.20	1.03	1.02	0.13	.....
Canton	1.11	1.31	3.08	6.20	4.26	0.21	3.16	0.32	3.18	0.92	2.37	0.25	26.37
Carnegie	1.12	0.76	5.20	5.54	6.23	0.39	3.00	T.	1.35	2.68	1.10	1.22	28.59
Chandler	2.11	1.37	3.34	7.47	7.49	3.66	7.42	0.30	0.85	1.72	5.05	0.98	41.76
Chattanooga	0.70	0.71	1.92	8.12	6.55	0.43	2.34	1.04	0.44	1.60	1.32	0.20	25.37
Cherokee	1.50	0.88	4.04	4.00	3.09	1.56	1.13	1.31	.....	.....	2.22	0.00	.....
Chickasha	1.00	0.84	2.79	5.68	8.19	0.29	2.16	0.03	1.19	2.73	2.12	0.47	27.49
Claremore	2.47	1.73	7.17	5.15	8.72	0.77	6.50	1.40	2.03	1.77	5.11	.....	.....
Cleveland	2.17	1.27	5.51	10.49	7.11	2.51	7.79	3.12	3.88	1.36	4.24	0.77	50.22
Cloud Chief	1.16	0.64	3.13	4.29	4.94	1.40	3.04	0.11	1.89	1.91	2.18	0.50	25.19
Durant	1.78	2.63	3.60	9.91	5.03	2.07	2.50	1.78	1.75	1.87	6.21	0.46	39.59
Enid	.....	1.77	3.06	7.82	5.45	1.85	2.18	4.80	2.40	2.99	2.80	0.24	.....
Erick	1.47	0.30	6.04	4.49	3.78	1.09	1.26	0.39	1.28	0.54	2.53	0.30	23.47
Eufaula	2.32	2.06	4.88	7.11	7.40	2.78	9.30	2.47	0.28	0.80	8.38	1.64	49.42
Fairfax	.....	.....	.....	.....	.....	.....	10.04	1.87	.....	5.00	4.07	0.53	.....
Fort Gibson	2.15	1.26	4.32	4.47	5.14	0.76	7.67	2.41	0.38	0.88	6.66	3.47	39.57
Fort Reno	1.42	1.09	3.17	7.04	5.28	1.00	2.99	0.12	1.24	.....	1.50	0.35	.....
Frederick	0.87	0.77	2.72	9.67	8.57	0.50	1.82	0.08	1.62	1.76	1.12	0.14	29.64
Geary	1.24	0.69	3.37	5.65	5.90	1.17	1.34	0.12	1.77	2.01	1.98	0.57	25.81
Goodwell	0.49	0.80	2.25	1.15	1.38	.....	.....	.....	.....	.....	1.25	0.00	.....
Guthrie	1.75	0.66	4.53	6.03	4.74	2.17	2.33	0.44	1.19	2.76	1.98	0.65	29.23
Hammon	1.73	0.40	4.65	6.42	5.60	0.28	1.37	0.19	0.97	1.41	1.11	0.50	24.63
Hennessey	1.29	1.10	3.05	7.35	6.64	1.14	1.55	0.07	1.55	2.56	1.94	T.	28.24
Hobart	1.13	0.61	3.64	4.61	4.48	0.88	2.32	0.07	1.09	1.95	2.02	0.31	23.11
Holdenville	2.13	1.39	5.60	7.30	4.39	4.48	5.97	0.98	1.31	1.60	5.09	0.58	40.82
Hollis	.....	.....	.....	.....	.....	.....	.....	0.02	1.70	1.02	0.55	0.72	.....
Hooker	0.21	1.14	2.58	1.81	1.85	1.67	1.35	0.20	2.24	0.17	0.71	0.05	13.98
Hugo	1.43	3.12	3.70	4.67	6.25	5.77	3.00	1.76	0.75	2.87	3.15	1.33	37.80
Hurley	0.24	1.40	1.42	3.84	2.45	2.04	4.82	0.82	2.52	0.41	1.03	0.21	21.20
Jefferson	1.98	1.36	2.62	4.20	4.18	1.72	.....	.....	.....	1.51	3.49	0.10	.....
Kenton	0.06	1.12	0.51	2.26	1.44	1.52	3.29	1.08	1.01	0.01	0.68	0.07	13.05
Kingfisher	1.49	0.77	4.40	6.75	7.26	1.25	1.33	T.	0.62	3.64	1.42	0.55	29.48
Lawton	1.10	0.77	1.12	7.57	7.92	1.09	2.79	0.67	1.95	2.38	1.30	0.26	28.92
Lawtonka Lake	0.64	1.11	.....	.....	6.70	.....	.....	.....	1.09	.....	.....	0.08	.....
McAlester	1.85	2.19	4.81	7.81	4.94	5.02	5.78	.....	0.85	0.86	5.61	2.02	.....
Mangum	0.98	0.58	3.41	5.20	4.96	1.15	0.44	0.38	0.84	1.00	0.83	0.57	20.34
Marlow	1.02	0.95	2.85	10.92	6.29	1.25	4.24	1.02	2.30	2.78	2.12	0.25	35.99
Meeker	2.58	1.43	5.20	7.47	9.52	1.82	4.90	0.67	1.38	2.93	4.08	0.83	42.81
Miami	1.12	1.20	9.64	4.68	4.67	3.34	8.96	0.96	1.76	0.64	4.19	0.93	42.09
Minco	1.13	0.66	3.27	6.77	.....	3.68	2.50	T.	2.67	3.20	.....	.....	.....
Muskogee	2.23	1.75	5.17	7.33	7.24	0.97	5.46	1.80	0.30	1.14	7.36	2.20	42.95
Mutual	1.04	0.40	5.07	6.35	2.80	0.39	2.18	1.22	1.55	0.93	1.35	0.00	23.28
Newkirk	2.15	2.50	2.91	8.88	10.42	2.19	7.27	1.42	2.61	4.75	4.50	0.16	49.76
Norman	0.90	1.02	5.60	.....	6.13	0.30	1.68	0.10	1.25	3.45	3.84	0.38	.....
Oakwood	1.56	0.97	2.19	7.83	3.84	0.34	2.90	0.40	1.84	1.44	1.53	0.35	25.19
Okay	2.19	1.45	5.74	6.14	5.85	2.52	6.72	1.25	0.61	0.64	7.24	.....	.....
Okeene	1.42	0.62	3.12	7.35	4.60	0.98	2.99	0.65	1.60	1.48	2.15	0.25	27.21
Okemah	1.50	1.08	5.41	5.45	5.98	3.50	7.25	1.74	1.43	2.61	5.02	0.65	41.62
Oklahoma City	1.15	0.64	4.37	7.67	6.83	0.30	2.31	0.19	0.90	4.30	2.37	0.53	31.56
Okmulgee	2.47	1.28	4.61	6.27	7.05	2.23	7.64	1.73	0.60	2.45	5.91	1.53	43.77
Pauls Valley	.....	1.60	2.37	6.45	6.93	1.24	4.51	5.66	0.32	1.34	4.19	0.57	.....
Pawhuska	2.28	1.07	5.27	7.09	5.16	2.10	8.37	1.84	2.06	1.93	4.05	0.23	41.45

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Oklahoma—Continued.													
Perry			3.20	8.20	8.95	2.40	4.49	0.47	2.20	2.74	1.64	T.	
Poteau	1.80	3.37	4.52	5.52	4.81	2.36	4.17	2.54	0.85	0.78	6.92	2.99	40.63
Ralston							5.18	2.54	3.53	2.24	4.73	0.24	
Ravia	0.79	1.25	3.97	8.55		0.80	5.19	1.55	0.29	3.92	4.46	0.45	
Reno Junction			3.20	7.00	5.75	0.55	2.52	0.10	1.10	4.34		0.35	
Sallisaw			4.58	4.06	6.58			1.77	1.05				
Shattuck	1.05	1.08	4.70	4.47			2.20	1.19					
Shawnee	1.66	1.12	3.80	8.96	9.34	2.30	4.83	0.23	0.76	1.88	3.38	0.19	38.45
Stillwater	2.26	0.96	4.79	6.93	7.23	1.50	2.55	1.10	1.69	1.42	3.51	0.86	34.80
Sulphur	1.40	1.36	3.09	8.31	6.08	1.11	2.58	0.79	0.04	2.33	4.50	0.40	31.99
Tahlequah	2.04	1.80	4.62	5.10	5.82	2.62	4.65	2.13	0.45	0.45	3.24		
Tamaha	2.35	1.68	4.73	5.78	7.21	2.78	5.12	3.84	1.42	1.71	6.85	3.29	46.76
Tulsa	1.95	1.52	8.31	6.92	5.13	0.96	4.75	1.71	2.04	1.07	4.75	1.91	41.02
Tuskahoma	1.63	2.42	5.09	6.90	2.41	3.57	4.89	2.80	0.94	4.98	6.25	2.37	44.25
Vinita	1.50	1.84	8.48	7.18	5.92	0.65	9.85	1.12	2.35	0.96	5.44	1.14	46.43
Walters											2.32	T.	
Watts					4.40	3.88	4.06	1.84	0.80	0.95	9.69	5.08	
Waukomis	1.75	1.40	3.40	6.69	5.36	0.67	3.14	1.08	1.55	3.05	3.17	0.15	31.41
Waurika	0.90	1.68	1.54	9.01	4.94	0.67	1.74	0.08	0.27	2.52	3.78	0.31	27.44
Weatherford	1.54	1.00	3.24	5.77	4.36	0.89	3.04	0.26	1.18	1.69	2.61	0.36	25.94
Webbers Falls	2.15	2.27	5.67	5.71	8.14	2.36	6.25	2.06	1.19	0.59	7.04	2.69	46.12
Wichita National Forest	0.89		2.23	10.02	8.37	2.02	2.80	1.19	1.05	1.72	1.29	0.30	
Wilburton	2.31		6.05	6.81	9.28	3.34				0.40	7.84	2.32	
Woodward	1.05	1.09	7.00	3.57	4.57	0.43	1.68	1.98	2.75	0.77	1.55	T.	26.44
Wyandotte	1.37		10.18	8.34	7.17	0.75	9.76	0.31	2.86	0.99	6.73	1.36	
Yonkers							5.72	1.44	0.83	1.59	6.97		
Oregon.													
Agness					1.86								
Albany	3.10	4.14	6.11	2.16	0.91	0.04	0.00	2.00	2.02	4.43	3.21	10.87	38.99
Andrews	0.32	1.39	0.26	0.85	0.42	0.15	0.35	1.04	0.01	0.59	0.20	0.98	6.56
Ashland	2.08	2.04	2.36	1.22	1.69	1.29	0.00	T.	0.76	1.76	2.01	5.34	20.55
Astoria	5.64	5.24	9.94	5.44	5.38	0.53	0.11	3.59	4.67	6.89	4.08		
Baker	0.61	0.87	1.01	0.71	0.41	0.61	0.01	1.06	0.11	0.40	0.52	1.74	8.06
Bear Creek	0.99	1.74	1.44	0.57	0.45	1.05	T.	0.34	0.31	1.14	1.09	1.76	10.88
Bear Valley	1.03	1.65	1.47	1.00	0.98	0.64			0.18	0.53	0.78	2.74	
Beech Creek	1.16	1.85	1.62	1.43	0.99	1.10	T.	0.91	0.20	1.12	1.37	2.99	14.74
Bend	0.85	2.75	2.44	0.53	1.45	2.11	0.06	1.36	0.07	1.15	0.93	2.71	16.41
Big Eddy	0.78	0.69	0.82	0.33	0.06	0.06	0.00	0.63	0.08	1.06	0.92	3.41	8.84
Blitzen	1.78	0.46	0.09	0.56	0.19	0.38	0.17	1.63	0.14	1.24	0.13	1.09	7.86
Brookings	9.25	10.89	13.26	5.43	1.90	0.28	0.00	1.43	1.88	6.99	5.61	11.93	68.85
Butte Falls	2.62	4.49	6.75	2.05	1.25	3.27	0.00	0.30					
Cascade Locks	6.08	6.99	11.18	6.10	2.75	T.	0.00	2.07	2.25	5.25	4.28	17.72	64.67
Cascadia	6.64	4.70	8.55	7.00	2.90	1.40	0.00	1.70	2.30		5.35	13.98	
Cazadero	5.17	2.96	9.80	6.39	2.77	0.39	0.00	1.26	2.08	7.29	4.38	12.33	54.82
Chiloquin	1.60	2.37	2.07	0.39	1.30	1.22	0.59	0.56	0.32	1.74	0.80	3.39	16.35
Clarno	1.09	0.72	0.75	1.12	0.05	2.39	0.00	0.41	0.16	0.98	1.98	1.82	11.47
Classic Lake			13.56	7.45	5.00	0.44	0.00	6.68	4.98	9.58	4.37	15.87	
Condon	1.37	1.15	0.96	0.96	0.08	1.26	0.00	0.64	0.36	1.13	1.71	2.04	11.66
Coquille River Lighthouse				2.36	2.08	0.09	0.01	0.21	1.41	5.18	4.36	9.10	
Cornucopia	6.36	7.15	7.15	3.77	2.67	1.82	0.13	0.93	0.10	0.68	2.45	11.18	44.39
Corvallis	3.80	4.85	5.81	1.77	0.76	0.02	0.00	0.87	1.51	4.88	3.07	11.11	38.45
Cottage Grove	4.95	4.31	7.37	4.02	1.34	0.15	0.00	0.62	1.78	3.85	4.87	10.41	43.67
Cove	1.16	1.99	2.24	2.51	1.19	1.11	T.	1.02	0.33	0.98	0.92	3.57	17.02
Crane										0.57			
Crater Lake[6]	6.85	9.55	6.89	5.24	2.32	1.67	0.00	1.42	1.86	3.14	3.74	14.16	56.84
Dayville	0.47	0.99	1.10	0.82	0.64	1.40	T.	0.66	0.05	1.23	1.22	1.83	10.41
Deadwood						0.03	0.00	1.39					
Detroit	8.87	6.11	9.74	4.73	1.11	0.90	0.00	0.88	1.99	3.85	3.74	16.58	58.50
Doraville	4.19	4.17	6.30	3.79	1.77	0.31	T.	2.17	2.59	4.50	2.00	11.77	43.56
Drain	5.02	5.54	6.79	3.05	2.33	0.14	0.00	0.33	1.65	4.54	3.48	9.07	41.94
Drewsey	1.88	2.20	1.26	2.07	1.60	0.65	0.00	1.16	0.00		1.56	2.45	
Dufur	1.33	0.68	1.11	0.41	0.28	0.25	0.00	0.68	0.30	0.97	1.32	3.48	10.81
Echo	1.31	0.86	1.17	0.57	T.	0.53	0.00	0.54	0.36	0.40	0.70	2.01	8.45
Eugene	3.78	4.21	6.28	2.63	1.27	0.70	0.00	0.34	2.55	3.83	3.44	8.03	37.06
Fish Lake	6.30	3.94	5.92	5.70	3.38	1.83	0.00	1.19	1.18	3.62	3.52	7.68	44.26
Florence	7.16	7.71	11.91	4.98	2.56	0.05	0.00	1.36	2.85	9.05			
Foothills Orchard		2.64	2.06	0.69									
Forest Grove	3.04	4.98	7.90	2.48	1.27	0.17	0.00	2.09	1.92	4.17	2.55	13.52	44.09
Fremont	0.51	2.41	0.63	0.42	0.95	1.29	0.07	0.78	0.02	1.23	1.56	1.71	11.58
Government Camp	10.59	10.61	13.00	9.68	3.82	0.50	0.00	2.16	3.28	4.69	2.27	18.16	78.79
Grants Pass	1.94	9.55	4.09	0.86	1.27	0.76	0.00	0.00	0.27	3.00	1.31	7.47	30.52
Harney Branch Experiment Station							0.01	1.06	T.	0.88	0.78	1.51	
Harper	0.69	1.42	0.42	0.59	0.70	0.16	0.07	0.42	T.	0.08	0.60	2.05	7.20
Hay Creek			1.44	1.32	0.64	2.47	0.00	0.64	0.21	1.22	1.78	1.63	
Headworks	5.92	6.19	10.89	7.56	3.18	0.48	T.	2.83	2.32	6.58	5.76	13.38	65.09
Heppner	0.84	1.20	1.13	1.06	0.22	1.43	0.00	0.72	0.68	0.73	1.41	1.33	10.75
Hermiston	0.93	0.75	1.32	0.40	0.13	0.39	0.00	0.46	0.40	0.51	0.57	1.64	7.50
Hilgard	2.07	2.53	3.12	3.05	0.45	1.47	0.00	2.34	0.34	0.94	0.81	2.62	19.74
Hillcrest Orchard	1.98	2.42	2.09	0.56	1.30	0.69	0.00	0.01	0.43	1.70	1.31	6.09	18.58
Hood River	2.38	0.93	3.31	1.42	0.35	0.10	0.00	0.38		2.11	1.77	8.87	
Howardville	2.03	3.14	2.79	2.55	0.72	1.38	0.07	1.83	0.34	0.85	0.72	5.20	21.62
Ibex Mine	1.01		1.51	0.67	0.46	0.55	T.	1.45	0.12	0.55	0.56	3.10	
Intake	5.84	4.51	6.74	5.15	1.92	0.32	0.00	1.06	1.95	4.69	3.07	10.42	45.70
Jacksonville	2.19	3.49	2.56	0.97	1.41	0.94	0.00	T.	0.58	1.77	1.61	7.64	23.16
Jewell	6.77	6.56	11.45	7.49	3.82	0.15	0.00	2.72	3.25	6.44	2.91	20.46	72.02
Joseph	0.91	1.32	1.24	1.56	1.70	1.03	0.19	2.29	0.68	0.45		1.96	
Kingman	0.72	0.97	0.55	1.38	0.52	0.30	T.	0.65	T.	0.24	0.52	1.93	7.78
Klamath Falls	0.65	2.13	1.90	0.31	1.13	0.59	0.52	0.13	0.40	2.28	1.60	3.55	15.19
La Grande	1.17	2.23	1.70	1.93	0.89	1.07	0.00	1.92	0.38	0.75	0.62	2.77	15.43
Lake Creek	2.80	2.23	3.34	1.76	1.62	0.84	0.00	0.08	0.51	1.79	1.96	4.92	21.24
Lakeview	0.53	2.14	0.77	0.84	0.81	0.53	0.54	0.79	T.	0.76	0.87	1.84	10.42
Lapine	1.18	1.86	2.01	0.53	0.77	2.69	0.00	1.92	0.03	0.82	0.86	3.45	15.92

[6] Name changed from Anna Spring.

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Oregon—Continued.													
Larch Mountain	4.85	3.58	16.53	10.75	.....	.....	.....	.....	.....	.....	.....	.....	.....
McCredie Springs	4.60	4.56	6.74	4.66	.....	.....	.....	.....	.....	.....	.....	.....	.....
McKinley	9.83	9.59	.....	5.49	2.49	0.07	0.00	0.52	2.38	6.09	5.39	11.68	.....
McMinnville	3.03	3.83	5.25	1.42	1.07	0.24	0.00	0.77	1.88	4.89	2.61	9.31	34.30
Madras	0.22	0.68	1.00	0.18	0.42	1.69	0.00	0.63	0.08	0.98	1.43	1.64	8.95
Marshfield	8.79	10.05	14.64	5.34	2.95	0.14	T.	0.17	1.87	7.13	5.21	12.49	68.78
Medford	1.76	2.33	1.84	0.61	1.22	0.56	0.00	T.	0.50	1.48	1.35	5.36	17.01
Merrill	.....	2.15	1.79	.....	0.36	1.23	0.10	0.16	0.04	1.72	1.86	2.90	.....
Mikkalo	0.61	0.90	0.90	0.65	0.01	0.67	0.00	0.38	0.45	1.18	0.96	2.13	8.84
Milton	1.06	0.73	0.44	0.85	0.26	0.74	0.02	1.00	0.20	0.63	0.73	2.19	8.85
Miramonte Farm	3.14	3.80	7.40	.....	.....	.....	.....	.....	.....	4.57	2.84	10.74	.....
Modoc Orchard	0.96	2.86	2.52	0.84	1.08	0.49	0.00	0.03	0.48	2.17	1.60	7.17	20.20
Moro	0.50	0.79	1.29	0.38	0.09	0.27	0.00	0.86	0.42	1.26	1.10	2.27	9.23
Mount Angel	4.23	5.09	8.46	2.89	2.31	0.05	0.00	1.16	2.85	4.51	4.23	12.66	48.44
Newhall Ranch	1.90	2.95	2.21	1.01	1.13	0.59	0.00	T.	0.46	1.69	1.11	6.67	19.72
Newport	7.04	5.84	11.39	4.58	3.37	0.15	0.00	3.07	3.62	8.80	4.98	13.22	66.06
Ochoco	0.60	0.45	1.31	1.25	0.49	2.61	0.10	0.15	0.22	1.62	1.87	3.30	13.97
Olive Lake	2.38	3.75	3.97	3.28	1.10	1.39	0.15	2.30	0.37	2.20	1.93	7.19	30.01
Ortley	1.54	1.29	0.57	0.38	T.	T.	0.00	0.32	0.21	1.67	1.62	5.50	13.10
Parkdale	3.22	1.79	3.29	2.15	0.65	0.15	0.00	0.52	0.67	2.14	2.43	9.07	26.08
Pendleton	2.21	2.53	1.86	0.80	0.57	0.60	0.00	0.88	0.53	0.85	1.20	2.89	14.92
Pilot Rock	1.09	0.68	1.33	1.22	0.34	1.23	0.00	1.08	0.33	1.01	0.56	1.33	10.20
Portland	3.08	3.29	6.37	3.05	1.60	0.14	T.	2.06	1.90	4.70	2.94	9.43	38.76
Port Orford	9.05	10.76	16.53	5.58	3.02	0.25	T.	1.20	2.34	.....	.....	.....	.....
Power House	.....	.....	1.33	1.97	0.32	0.73	0.01	1.46	0.36	0.81	1.29	3.11	.....
Prairie City	1.21	0.83	1.19	1.42	1.28	0.55	0.01	0.70	0.11	0.93	1.03	2.28	11.60
Prineville	0.60	1.06	1.01	0.31	0.34	2.27	0.00	0.09	.....	0.62	2.10	1.27	.....
Prospect	4.28	4.49	5.53	2.54	1.46	1.58	T.	0.33	1.14	3.86	3.01	8.79	37.01
Reservoir No. 3	1.00	1.50	0.74	0.69	0.85	0.61	0.09	0.74	0.00	0.18	0.67	1.85	8.92
Richland	0.81	1.24	0.71	.....	.....	.....	0.00	1.43	0.00	0.58	0.30	1.51	.....
Riddle	4.01	4.54	4.58	1.80	0.81	1.47	0.00	0.88	0.56	2.76	2.14	6.37	29.92
Riverside	0.90	1.15	1.07	0.93	0.35	0.15	0.04	0.79	T.	0.46	0.75	2.20	8.79
Rock Creek	1.58	3.01	2.61	1.01	0.54	1.06	0.00	0.15	0.07	0.61	0.30	3.62	14.56
Roseburg	3.68	3.70	4.09	2.68	1.03	1.01	0.00	0.32	1.56	3.50	2.59	5.86	30.02
Round Grove	1.23	2.66	1.99	0.67	1.50	0.96	0.19	0.97	0.44	1.99	1.18	3.00	16.18
Salem	3.11	4.33	6.14	2.16	0.93	0.03	0.00	1.49	1.95	4.91	2.57	10.41	38.03
Silver Lake	1.50	4.25	1.35	0.32	1.32	0.77	0.17	0.55	0.05	1.25	1.10	2.43	15.06
Siskiyou	2.97	8.30	5.96	3.05	3.39	1.51	0.25	0.07	0.52	2.65	3.29	12.98	44.94
Sparta	2.70	3.17	0.49	0.87	.....	.....	.....	.....	.....	.....	.....	1.89	.....
Starkey	1.37	1.45	2.40	1.63	0.95	1.89	T.	1.69	0.41	1.09	0.70	1.97	15.55
Sunrise Valley	0.55	1.93	0.94	0.96	0.32	0.12	0.07	0.71	0.01	0.69	0.53	1.52	8.35
Talent	1.81	1.84	1.81	0.80	1.48	1.48	0.00	T.	0.30	1.61	1.68	5.51	18.32
The Dalles	1.00	0.74	1.12	0.50	0.01	0.09	0.00	0.58	0.17	1.30	1.05	2.95	9.51
Tillamook	.....	7.47	14.25	8.25	.....	0.19	.....	.....	.....	.....	.....	.....	.....
Toledo	7.09	7.19	14.63	6.75	3.62	0.08	0.00	2.97	4.04	6.63	5.23	18.49	76.72
Tule Lake	0.16	1.54	1.32	0.23	.....	0.81	0.13	0.27	0.08	1.12	0.95	1.60	.....
Ukiah	.....	.....	.....	.....	0.57	1.44	T.	1.08	0.49	0.82	1.37	3.73	.....
Umatilla	0.84	0.87	1.09	0.40	0.19	0.15	0.00	0.29	0.40	0.58	0.49	1.11	6.41
Umpqua	7.13	7.76	12.08	4.27	3.52	0.02	0.05	1.20	2.16	8.29	4.77	12.47	63.72
Union	0.23	0.86	1.14	0.95	0.57	0.60	0.02	0.91	0.26	0.38	0.49	1.85	8.26
Vale	1.02	.....	.....	.....	.....	.....	.....	0.23	T.	0.21	0.69	1.82	.....
Valley Falls	0.49	1.96	0.64	0.94	0.92	0.77	0.59	0.51	0.21	1.70	1.25	1.97	11.98
Waldo	4.04	.....	9.31	2.35	1.51	0.08	0.00	0.44	1.01	2.94	2.50	15.65	.....
Wallace Orchard	3.28	4.61	5.85	2.43	0.61	T.	0.00	2.04	2.40	4.59	2.94	9.78	38.53
Wallowa	1.05	1.14	1.15	1.28	0.58	0.51	0.03	1.91	.....	0.14	0.63	2.33	.....
Warmspring	0.50	0.31	0.99	0.25	0.29	1.68	0.00	0.75	0.22	0.88	2.64	2.65	11.16
Wasco	0.63	0.71	1.22	0.56	0.08	0.38	0.00	0.81	0.36	1.46	0.80	2.73	9.75
Welches (near)	6.96	1.00	9.26	6.08	4.64	0.57	0.00	0.67	2.50	5.68	4.61	14.76	56.73
Weston	0.90	1.33	2.01	2.08	0.37	0.70	0.02	1.35	0.35	1.01	1.45	2.50	14.07
Williams	3.04	6.50	4.97	1.25	0.94	0.71	0.00	0.00	0.49	2.36	1.91	12.42	34.59
Willow Creek	.....	.....	.....	.....	.....	.....	.....	.....	2.68	7.20	6.51	14.88	.....
Wolf Creek	3.65	8.44	6.21	1.75	0.76	0.71	.....	.....	.....	.....	.....	.....	.....
Yonna	0.69	1.66	1.20	0.47	0.70	0.69	0.10	0.16	0.03	1.72	1.24	2.86	11.52
Pennsylvania.													
Allentown	2.18	1.66	4.60	3.23	4.33	4.57	4.08	1.24	1.87	1.47	0.47	2.13	34.83
Altoona	1.88	1.86	2.96	3.34	1.69	2.53	3.97	1.50	1.41	2.60	1.11	2.01	26.86
Ansonia	.....	0.96	3.00	3.04	3.03	5.26	2.41	5.43	2.60	3.30	0.63	1.39	.....
Arendtsville	.....	.....	.....	1.31	3.77	6.57	2.38	2.04	1.34	2.00	0.65	2.06	.....
Beaver Dam	1.76	1.34	3.58	4.35	3.05	1.98	2.54	1.90	3.63	2.20	1.56	1.57	29.46
Beaver Falls	2.09	1.25	4.09	3.62	3.54	1.78	2.60	3.12	2.05	2.08	1.56	2.13	29.91
Bellefonte	2.92	1.09	2.97	4.36	2.29	5.75	2.83	3.07	1.33	2.26	0.34	2.37	31.58
Bethlehem	2.72	2.64	4.31	.....	3.63	5.34	.....	2.60	1.96	1.60	0.53	2.29	.....
Bloserville	1.25	1.49	6.20	2.31	3.49	8.13	4.37	1.77	0.93	2.71	0.95	2.81	36.41
Bradford	2.22	1.71	4.37	4.40	2.76	8.41	1.95	6.93	1.15	2.77	1.58	3.13	41.38
Bradys Bend	1.60	1.72	4.54	3.96	2.62	2.44	2.10	2.60	1.29	2.18	2.13	2.85	30.03
Brookville	1.62	1.47	5.28	4.78	1.70	2.78	1.96	3.79	0.58	2.28	1.59	4.32	32.15
Bustleton	.....	.....	3.51	2.53	2.56	6.75	4.32	7.43	2.07	0.79	0.77	.....	.....
Carlisle	2.82	2.01	4.00	2.00	3.79	5.46	3.31	3.23	1.11	1.52	0.86	2.74	32.85
Catawissa	3.57	2.32	3.79	3.96	3.86	6.86	3.43	3.04	1.09	2.70	0.75	1.85	36.95
Cedar Run	.....	1.40	3.32	3.79	3.39	5.79	1.84	3.29	1.99	2.77	0.84	2.50	.....
Center Hall	2.27	1.21	3.80	2.35	2.32	8.30	3.44	2.70	0.58	2.30	0.33	1.19	30.79
Chambersburg	2.01	2.05	3.76	1.96	3.19	7.77	3.99	2.43	1.08	2.42	0.75	2.78	35.09
Clarion	1.90	1.56	4.60	4.22	2.62	2.64	3.48	4.21	1.72	2.49	2.27	3.46	35.17
Claysville	1.82	1.30	5.05	4.74	3.17	4.76	2.16	1.24	2.81	2.22	0.97	2.89	33.13
Clearfield	2.19	1.60	3.71	3.45	2.45	5.12	4.63	2.94	0.45	2.75	1.15	2.79	33.23
Cloe	1.65	1.82	3.67	4.76	2.58	4.50	3.57	2.83	0.38	2.67	1.41	3.08	32.92
Clymer	2.62	2.58	4.42	4.10	3.34	4.84	6.26	3.37	0.87	3.21	1.85	2.67	39.83
Coatesville	4.46	2.85	5.16	2.20	4.34	4.16	5.85	3.27	0.75	1.03	0.52	3.41	38.00
Colebrook	2.60	2.44	4.26	2.14	3.18	3.02	4.40	1.15	0.61	2.15	0.86	2.39	29.20
Confluence	2.66	2.00	4.21	3.88	2.66	2.91	2.86	2.35	1.04	1.60	1.16	4.55	31.88
Coraopolis	1.53	1.96	3.95	4.92	2.72	3.96	1.51	2.34	2.61	1.81	1.36	1.98	30.65
Corry	2.23	1.96	5.49	3.38	3.80	4.18	3.30	2.31	1.40	3.82	3.86	3.74	39.47
Creekside	1.23	2.49	2.30	3.54	2.54	5.00	5.75	2.43	0.95	2.60	1.47	2.75	33.05
Cresson	2.93	3.07	3.97	3.39	3.49	3.17	5.29	2.86	1.13	2.37	1.63	3.35	36.63
Davis Island Dam	1.65	1.94	4.22	4.82	4.12	4.24	2.77	1.39	.....	.....	.....	.....	.....

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Pennsylvania—Continued.													
Derry	2.23	2.53	4.63	3.99	3.41	3.86	3.25	4.42	1.19	1.89	1.54	3.84	36.78
Doylestown	2.85	2.50	3.80	2.49	3.30	5.56	4.85	3.37	0.92	0.66	0.67	2.83	33.80
Driftwood	1.54	.....	2.47	3.96	3.04	5.17	3.12	2.49	1.62	2.80	1.49	4.32	.....
Ebensburg	1.92	3.11	4.13	3.74	3.57	4.29	4.82	1.72	0.92	2.36	1.51	3.27	35.36
Edinboro	2.23	1.58	5.66	3.14	2.68	.....	.....	.....	.....	.....	.....	.....	.....
Elk Lick	2.98	2.73	4.54	3.10	3.43	.....	.....	.....	.....	.....	.....	2.43	.....
Emporium	2.13	1.99	3.98	3.74	3.39	5.75	1.97	4.77	1.81	3.45	1.06	3.80	37.84
Ephrata	2.37	2.29	5.91	1.48	2.58	3.77	4.39	2.18	0.96	1.63	0.83	2.74	31.07
Erie	1.97	1.25	4.34	2.45	1.98	2.11	4.00	2.66	1.72	2.01	2.99	2.25	29.73
Everett	.....	.....	2.78	.....	.....	.....	.....	1.61	1.00	.....	.....	.....	.....
Falls Creek	1.75	1.84	4.38	4.08	3.25	5.81	2.25	3.24	1.46	2.93	1.74	3.74	36.47
Forest City	1.89	1.37	4.26	3.79	3.70	12.46	5.07	5.06	0.90	3.05	1.12	2.40	45.07
Foxburg	.....	1.57	.....	3.31	2.04	2.99	4.20	.....	.....	.....	.....	.....	.....
Franklin	1.77	2.08	4.86	3.45	3.27	4.04	4.04	3.46	2.17	2.47	3.81	3.53	38.95
Freeland	2.86	2.73	5.67	3.64	4.60	7.51	4.09	3.98	2.59	3.81	1.08	2.49	45.05
Freeport	1.69	2.21	4.85	5.43	2.89	4.65	4.26	1.88	1.70	2.93	1.72	2.96	37.17
George School	2.19	1.93	3.95	2.09	2.76	7.24	3.59	5.19	1.97	1.04	0.68	3.27	35.90
Gettysburg	2.42	1.91	5.05	1.79	3.91	4.96	6.25	2.18	1.35	2.85	0.57	2.91	36.15
Girardville	2.59	3.00	6.65	4.30	7.14	8.85	5.55	4.16	1.70	4.20	0.78	2.04	50.96
Gordon	3.37	2.41	5.06	2.56	5.28	6.93	4.79	3.75	1.08	5.35	0.70	1.79	43.07
Gouldsboro	2.90	2.56	4.15	4.33	4.50	7.70	4.49	5.14	2.11	4.98	0.82	3.15	46.83
Graterford	3.54	2.48	4.43	2.53	2.10	4.65	3.21	2.13	1.00	0.69	0.70	2.52	29.98
Greensburg	2.28	2.23	5.37	3.86	3.69	3.36	3.40	3.46	1.47	2.53	1.74	2.87	36.26
Greenville	1.70	1.90	4.27	3.77	2.45	2.04	3.81	2.77	1.76	1.72	2.45	1.98	30.62
Grove City	1.72	1.82	5.30	3.85	3.27	2.64	4.97	2.56	2.05	1.54	2.47	2.96	35.15
Hamburg	.....	2.87	.....	2.74	4.53	3.96	4.80	8.16	1.70	1.91	0.62	2.82	.....
Hanover	2.36	1.72	3.48	1.77	3.12	4.23	4.13	3.32	0.42	1.45	0.72	2.66	29.38
Harrisburg	2.49	2.29	3.21	1.43	3.72	2.91	3.91	1.28	0.85	3.16	0.56	2.41	28.20
Hawley	2.12	1.15	4.96	3.51	3.18	6.05	4.67	2.91	1.08	3.05	0.95	3.83	37.46
Herrs Island Dam	1.82	1.97	4.62	6.10	2.91	2.85	3.50	2.60	1.52	1.70	1.52	1.87	32.98
Holtwood	2.50	1.89	4.19	1.37	1.88	2.79	4.22	1.19	0.53	2.99	0.46	2.39	26.40
Huntingdon	2.85	2.14	3.07	2.54	1.79	2.72	4.42	3.13	1.81	3.41	1.08	2.79	31.75
Indiana	2.03	2.49	4.96	4.30	4.53	3.91	4.47	3.62	0.62	2.56	2.34	3.62	39.45
Ingram	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.60	1.98	.....
Irwin	1.31	2.11	5.35	3.34	2.72	5.52	3.50	1.93	0.50	3.23	2.05	2.55	34.11
Jersey Shore	1.92	.....	.....	.....	.....	6.14	3.14	4.60	1.95	1.87	1.49	2.79	.....
Johnstown	2.71	3.02	5.31	4.47	2.73	3.15	2.75	2.20	1.23	2.24	1.36	4.51	35.68
Kennett Square	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.82	.....	.....	.....
Ketner	1.74	1.96	4.16	3.15	2.75	4.53	3.39	4.35	0.94	3.15	2.06	3.34	35.52
Lancaster	2.76	1.47	4.09	1.28	2.88	3.50	3.47	2.05	0.42	2.68	0.62	1.05	26.27
Lansford	1.85	2.36	4.80	2.79	4.93	6.22	2.22	2.39	1.29	3.52	0.67	1.98	35.02
Lawrenceville	1.15	1.40	3.40	2.32	.....	6.13	2.47	5.47	1.95	2.90	0.85	.....	.....
Lebanon	2.21	2.17	4.37	3.61	3.60	4.78	5.29	2.54	1.60	2.11	0.80	2.18	35.26
Lewisburg	3.61	2.16	4.04	3.39	4.41	7.35	2.41	4.66	1.83	3.23	0.63	2.61	40.33
Linesville	2.10	1.61	4.56	2.29	2.93	4.00	5.88	1.75	1.82	1.28	2.01	4.56	34.79
Lloyd	2.00	1.50	3.83	3.08	2.25	3.30	3.33	2.93	1.99	3.02	.....	2.59	.....
Lock Haven	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.15	0.61	2.50	.....
Lock No. 4	1.74	1.61	5.69	3.98	2.44	4.39	1.82	2.16	1.65	2.44	0.81	2.54	31.27
Lycippus	3.61	2.63	5.25	4.29	2.37	3.15	2.87	4.78	1.72	2.68	1.55	3.88	38.78
Lykens	3.18	1.92	3.99	2.10	5.05	7.66	5.73	2.15	1.29	4.08	0.66	1.64	39.45
Marcus Hook	2.27	3.01	4.89	1.55	3.32	4.25	1.75	3.48	1.05	0.73	0.53	2.79	29.62
Martin	.....	1.47	4.88	2.76	3.21	4.44	4.49	1.76	1.95	2.49	0.93	2.98	.....
Mauch Chunk	2.66	2.70	5.29	3.10	5.02	5.30	3.65	1.43	1.45	5.04	0.74	2.40	38.78
Mifflintown	1.90	1.87	3.36	2.82	2.23	6.49	5.53	1.95	1.77	3.11	0.71	2.01	33.75
Montrose	2.30	1.15	3.22	2.21	3.59	11.58	2.91	3.63	1.90	2.26	1.07	2.08	37.90
Mount Pocono	.....	.....	5.51	1.92	4.33	8.73	3.50	3.59	.....	.....	.....	.....	.....
Mount Union	.....	.....	3.30	2.46	2.52	6.01	2.87	3.27	1.02	4.66	0.51	2.57	.....
Muncy Valley	1.78	1.88	4.24	2.81	3.74	10.51	4.83	3.15	3.73	2.20	0.95	2.56	42.18
Narberth	3.14	2.28	4.96	2.41	3.37	6.18	2.57	3.71	0.72	0.54	0.54	3.80	34.22
Neshaminy Falls	1.63	0.67	.....	2.35	3.96	6.79	3.46	4.88	1.98	0.65	0.23	3.08	.....
New Castle	1.62	1.69	1.23	4.10	3.10	.....	4.03	3.35	2.61	1.63	1.68	2.28	.....
Newell	1.69	1.20	4.78	3.32	2.69	4.05	2.19	1.07	1.87	2.38	0.74	2.57	28.76
North Shenango	.....	1.51	4.35	3.27	2.86	2.58	3.65	3.54	1.73	2.33	2.41	2.60	.....
Palmerton	1.74	2.20	4.47	2.46	5.72	5.11	1.50	3.06	0.71	2.59	0.61	1.66	31.83
Parkers Landing	2.30	1.42	4.76	3.64	2.13	2.49	2.85	2.17	0.44	2.54	2.08	3.34	30.16
Penn Line	1.79	1.35	4.03	2.32	2.70	3.94	3.77	6.06	2.16	2.05	2.62	1.84	34.63
Philadelphia (Weather Bureau)	3.16	2.62	4.34	1.52	2.47	4.56	2.42	2.56	1.23	0.71	0.43	3.29	29.31
Philadelphia (d)	3.13	3.04	3.89	2.83	2.83	6.27	3.04	2.21	3.13	0.68	0.63	3.40	35.08
Phoenixville	1.91	.....	5.61	2.53	2.16	6.45	4.73	3.08	0.88	1.10	0.55	3.78	.....
Pittsburgh	1.56	1.57	5.84	3.56	2.59	3.12	2.80	2.35	1.54	1.62	1.31	1.98	29.84
Pottstown	2.58	2.51	4.17	2.07	3.90	4.25	4.96	4.27	1.19	1.03	0.48	3.34	34.75
Pottsville	2.48	3.14	5.08	2.86	6.03	4.51	4.10	3.10	1.20	4.45	0.79	2.33	40.07
Quakertown	3.00	2.99	4.24	3.73	3.31	6.66	5.74	2.40	1.83	0.82	0.51	2.88	38.11
Reading	2.16	2.69	4.11	1.88	3.23	7.23	3.58	5.21	1.16	1.18	0.55	3.18	36.16
Renovo	.....	1.73	3.48	2.47	3.76	6.47	6.77	2.38	1.58	3.12	0.90	3.59	.....
Ridgway	.....	2.26	.....	.....	1.72	4.79	2.67	4.23	2.05	2.84	1.66	2.84	.....
Sadsburyville	3.91	2.32	4.34	2.26	4.09	.....	6.37	2.69	.....	.....	.....	.....	.....
Saegertown	2.11	.....	4.11	3.37	3.29	3.67	4.87	2.94	1.43	2.24	4.52	3.21	.....
Saltsburg	2.15	2.23	5.03	3.89	2.79	4.28	4.64	2.66	1.12	2.36	1.93	2.91	35.99
Scranton	1.96	1.55	4.02	3.44	2.20	7.06	4.48	2.56	1.18	3.56	0.76	2.31	35.08
Selinsgrove	2.78	1.35	3.91	3.72	4.84	6.77	2.72	3.90	2.58	5.60	0.75	2.77	41.69
Sharon	1.29	1.26	3.62	3.43	2.42	1.84	4.65	2.58	1.02	1.55	1.66	2.22	27.54
Shawmont	2.72	2.57	3.95	1.93	2.76	5.66	2.13	5.83	0.84	1.09	0.37	2.99	32.84
Somerset	4.19	3.61	5.77	5.33	4.56	2.78	4.64	1.68	1.39	3.22	1.66	4.11	42.94
Springdale	1.97	2.20	5.34	5.15	2.40	3.60	7.58	2.16	1.75	3.00	1.78	2.45	39.38
State College	2.32	1.78	3.80	3.17	3.81	3.14	3.72	1.53	1.91	3.62	0.61	2.41	31.82
Stoyestown	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.14	4.00	.....
Stroudsburg	2.67	2.14	6.19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Summit	1.70	1.14	4.19	2.78	2.65	5.98	3.25	6.45	1.12	3.08	2.51	1.75	36.60
Sunbury	4.35	2.67	3.84	3.51	3.45	6.10	3.89	2.35	1.70	4.67	0.53	3.01	40.07
Tionesta	1.83	1.51	4.93	3.59	3.02	3.27	3.24	4.45	2.34	3.51	2.77	3.44	37.90
Towanda	2.13	0.80	3.72	2.32	2.83	8.05	2.03	3.69	2.48	1.45	0.64	1.73	31.87
Turnerville	.....	1.27	3.41	.....	2.35	.....	2.78	.....	.....	.....	.....	.....	.....
Uniontown	3.00	1.61	4.90	2.88	2.21	2.51	4.87	2.67	2.70	4.20	1.16	2.85	35.56
Unity Reservoir	2.13	2.43	5.54	3.99	3.16	3.05	2.30	3.36	1.06	2.46	1.42	3.24	34.24
Vandergrift	1.71	2.80	4.61	3.78	2.09	5.47	5.11	3.13	1.08	2.73	2.47	3.27	38.34

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Pennsylvania—Continued.													
Warren	1.48	1.51	3.49	3.07	3.00	5.81	2.45	4.62	2.32	2.82	2.65	2.95	36.17
Washington	1.73	1.57	6.03	4.13	2.12	3.90	2.21	1.04	2.17	2.04	0.79	2.58	30.31
Waynesburg				3.64		4.99		2.08	2.46	2.38	0.77	2.47	
Weikert	1.55	1.96	4.54	3.30	3.84	7.23	2.90	1.80	1.31	3.92	0.95	2.92	36.22
Wellsboro	1.45	0.87		2.38	2.68	6.39	2.02	5.28	2.11	2.29	0.67	1.85	
West Bingham	1.60	1.31	3.04	1.94	2.77	5.62	1.45	2.97	1.37	2.82	1.08	1.26	27.23
West Chester	2.75	2.71	4.31	1.87	3.33	6.29	3.69	4.85	0.80	1.56	0.40	2.70	35.26
Westford	1.67	0.92	4.20	3.39	2.48	3.01	3.61	3.69	1.77	1.96	2.11	2.76	31.57
West Newton	1.60	2.17	5.18	4.14	2.44	6.30	2.05	2.62	1.47	3.17	0.93	2.24	34.31
White Haven	2.15	2.68	4.83	3.33	3.59	9.22	2.00	2.60	2.17	4.80	0.70	2.16	40.23
Wilkes-Barre		1.90	3.34	3.52	1.79	6.36	3.34	3.12	1.54	3.29	0.85	1.94	
Williamsport	2.31	1.29	3.49	3.00	6.10	6.94	4.39	1.97	2.48	2.40	0.77	2.71	37.85
York	2.51	1.40	3.55	1.41	3.48	4.20	2.69	1.21	0.60	2.81	0.81	1.91	26.58
York Haven	1.53	2.45	3.80	1.89	3.29	6.78	3.52	1.35	0.17	2.35	0.49	2.97	30.59
Porto Rico.													
Aguirre	0.96	0.99	2.32	0.80	1.50	4.08	1.28	4.90	3.69	7.12	0.85	1.72	30.21
Albonito	6.19	6.13	5.51	1.78	2.47	7.85	7.82	3.44	7.36	9.27	5.56	11.18	74.56
Arecibo	6.75	12.95	5.75	4.15	1.45	7.60	5.50	4.55	2.65	6.45	3.55	12.25	73.60
Barceloneta	6.21	8.73	7.70	2.68	4.40	1.86	5.26	3.63	7.24	7.17	3.64	15.61	74.13
Bayamon	9.64	6.54	4.80	6.56	2.96	16.77	5.97	5.68	10.22	4.68	4.65	12.73	91.20
Cabo Rojo	2.45	6.15	2.10	3.35							3.49	8.53	
Caguas	5.00	3.60	5.01	0.94	1.87	7.82	8.27	4.34	4.50	6.61	2.38	9.49	59.83
Camuy	4.40	6.63	7.13	3.92	0.80	4.54	2.11	4.78	4.49	6.03	3.23	9.01	57.07
Cangrejo	6.70	8.14	3.37	4.80	7.22								
Canovanas	10.41	0.48	7.02	5.72	4.93	9.16	12.34	7.87	9.34	6.59	4.69	15.50	104.05
Carite Dam	3.86	8.05	5.53	1.60	5.55	11.03	5.70	7.66	10.15	8.60	2.31	10.24	80.27
Cayey	3.94	5.28	3.58	0.87	2.21	6.00	5.13	3.06	6.19	4.86	2.51	8.17	51.80
Cepero	8.48	7.08	5.00	4.65	3.87	5.93	7.29	8.99	7.47	5.33	5.15	13.13	82.46
Coamo	1.16	1.55	2.05	2.60	1.13	4.46	2.12	1.57	3.95	4.94	4.40	1.15	31.08
Coloso	1.92	1.86	2.44	5.47	10.00	22.12	4.45	10.76	10.75	9.82	1.54	4.57	85.70
Comerio Falls	14.43	12.13	8.55	3.06	3.27	8.09	7.05	4.50	4.01	9.28	6.58	21.40	102.35
Corozal				2.90	6.10	3.66	6.14	2.36	5.18	7.28	5.92	19.23	
Dorado	8.23	6.98	5.90	3.63	4.12	8.08	4.62	7.40	7.44	4.26	6.49	15.35	82.50
Fajardo	5.64	4.19	4.78	2.33	2.52	1.65	4.93	5.40	4.77	6.97	3.52	6.98	53.68
Guayabal Reservoir	2.26	3.05	0.97	1.06	1.78	3.48	1.99	6.35	4.96	6.04	2.80	1.88	36.62
Guayama	2.09	2.14	4.61	0.75	2.15	4.46	1.96	6.26	5.30	6.56	1.50	3.74	41.52
Humacao	2.67	5.55	6.54	2.20	2.94	10.45	8.26	8.27	9.10	9.60	2.10	9.51	77.19
Isabela	3.95	5.65	4.20	3.50	3.75	4.95	1.70	4.75	2.30	3.95	3.50	7.85	50.05
Jajome Alto	5.14	9.12	5.82	2.08	4.81	11.40	5.14	7.50	8.11	8.27	2.52	10.56	80.47
Jayuya	8.01	7.37	5.21	2.23	2.16	5.42	3.87	4.26	8.51	7.03	6.04	10.16	70.27
Josefa	1.97	1.40	3.83	0.80	2.63	4.34	1.18	5.80	5.71	10.02	0.75	4.50	42.93
Juncos	4.67	3.07	2.60	1.93	2.34	6.51	4.18	5.58	4.67	6.98	2.15	6.69	51.37
Lares	4.41	3.70	2.82	6.75	5.88	8.20	5.32	7.84	13.39	9.65	3.91	8.76	80.63
Manati	7.02	8.91	8.56	2.10	3.73	3.39	5.00	1.98	4.65	4.42	3.34	17.44	70.54
Maricao											4.00	7.75	
Maunabo	5.23	5.65	5.25	0.40	2.35	10.95	4.75	7.30	14.35	7.00	2.60	10.95	76.78
Mayaguez	0.86	5.43	2.04	4.14	9.99	12.03	10.80	11.57	23.42	12.38	3.17	5.08	100.91
Mona Island	1.03	3.63	3.93	2.54	1.67	4.15	3.55	3.87	3.15	13.29	5.51	5.30	51.52
Patillas Dam	1.77	5.37	3.94	0.70	3.37	6.57	3.78	6.40	7.42	6.39	0.82	8.45	54.98
Penuelas	0.65	2.40	0.50	1.58	1.45	3.95	2.35	2.10	4.88	6.03	7.39	4.55	37.83
Potala	0.56	0.76	0.65	0.12	0.26	2.81	0.89	2.38	1.77	4.00	0.79	0.15	15.33
Rio Grande	11.20	9.60	5.35	5.89	6.11	2.63	6.23	5.97	9.53	2.72	3.32	10.99	79.54
Rio Piedras	7.62	7.42	5.53	3.99	4.97	4.72	8.25	6.89	7.04	6.90	3.08	13.05	79.46
San German	0.82	6.27	2.48	3.12	1.47	5.60	6.87	4.92	11.58	4.92	5.65	4.74	58.44
San Juan	5.37	5.42	3.87	3.19	3.84	5.15	4.39	8.16	6.32	3.28	4.31	12.65	65.95
San Sebastian												5.85	
Santa Rita												0.75	
Toro Negro	5.20	5.35	5.57	1.86	4.96	6.11	6.15	6.96	8.13	7.07	4.44	5.28	67.08
Utuado	6.20	4.25	4.10	3.10	5.40	6.40	2.65	5.50	12.10	5.95	3.10	7.65	66.40
Vieques Island	4.09				0.72	2.92	2.60	3.89	5.24	10.00	1.96	5.05	
Yabucoa	3.29	5.41	5.75	1.51	2.92	10.34	7.49	6.92	12.86	8.34	3.18	9.70	77.71
Rhode Island.													
Block Island	3.04	3.16	4.75	2.79	4.17	2.68	1.82	9.53	0.84	2.94	0.54	2.67	38.93
Bristol	1.58	3.49	6.32	1.45	4.33	8.50	4.57	10.03	2.07	3.21	1.05	3.50	50.10
Greene	1.13	2.74	4.94	2.28	5.12	7.33	5.28	6.96	6.61	2.35	1.56	2.52	48.82
Kingston	3.88	4.65	5.87	3.31	5.50	5.93	3.26	10.99	1.46	3.70	1.19	4.28	54.02
Pawtucket	2.01	4.00	4.61	2.42	5.15	8.49	6.68	6.75	3.16	2.93	1.53	3.73	51.46
Providence	1.36	2.42	4.67	2.18	4.24	6.58	6.88	6.96	3.28	2.66	1.09	2.58	44.90
South Carolina.													
Aiken	2.78	5.78	9.20	3.67	5.58	4.44	8.29	5.61	1.28	6.39	0.87	3.41	57.30
Allendale				3.17	6.78	2.62	7.68	8.60					
Anderson	4.61	8.67	7.50	4.65	5.33	4.12	6.73	1.13	2.15	4.47	0.47	5.09	54.97
Batesburg	3.49	5.98	9.92										
Blackville	2.13	4.50	7.28	4.10	6.00	4.81	5.41	5.35	1.00	3.80	0.25	2.67	47.30
Blairs	2.65	8.69	7.41	7.99	3.33	3.66	6.02	11.75	0.06	5.49	0.88	4.31	62.24
Calhoun Falls	3.61	10.54	8.39	5.54	5.96	3.24	6.19	1.34	1.32	4.75	0.60	4.52	56.00
Camden	2.73	5.48	7.19	5.09	3.17	5.34	6.01	3.58	1.05	6.52	0.64	3.32	50.12
Catawba	3.94	8.17	7.91	6.70	4.27	3.18	7.95	1.75	1.40	6.65	0.89	4.50	57.31
Chappells	3.13	9.54	8.92	7.75	5.42	4.19	6.85	4.26	0.53	6.71	0.99	3.00	61.29
Charleston	2.48	5.63	3.15	1.50	9.56	3.54	8.02	5.18	1.13	5.72	0.10	4.61	50.62
Cheraw	2.40	7.52	6.58	4.42	4.05	6.31	7.47	7.11	0.80	5.46	1.29	5.28	58.69
Chester										6.29	0.63	4.16	
Clemson College	6.74	7.49	7.41	6.72	8.04	4.90	9.16	1.61	1.85	4.97	0.31	9.10	68.30
Columbia	2.22	5.73	6.51	6.53	2.85	4.96	7.39	1.76	2.19	6.65	0.44	2.61	49.84
Conway	2.73	3.50	4.79	3.16	4.32	11.76	7.54	8.02	2.28	8.02	0.69	5.24	62.14
Darlington	3.79	3.23	3.32	5.83	3.31	7.25	6.34	5.12	1.55	4.66	0.71	4.52	49.63
Due West	3.92	7.11	7.96	6.05	4.59	3.02	5.28	2.24	0.33	3.14	0.52	4.25	48.43
Edgefield	2.97	5.80	8.65	3.85	4.50	5.44	6.59	2.45	2.21	7.80	0.68	3.03	53.97
Effingham	2.58	5.49	7.35	5.75	4.48	8.60	9.31	5.17	0.70	9.00	0.37	4.87	63.67
Ferguson	2.50	4.29	4.18	3.28	8.15	5.90	11.18	8.50	1.02	8.03	0.56	4.33	61.92
Florence (No. 1)	1.57	5.86	7.62	5.50	4.16	11.23	10.19	3.95	0.61	7.16			
Florence (No. 2)	2.00	6.35	6.85	5.91	3.94	10.02	8.66	5.66	0.47	7.23	0.06	5.66	62.81

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
South Carolina—Continued.													
Garnett	2.22	4.94	6.27	0.82	6.45	3.74	7.50	3.46	1.37	8.35	0.02	4.22	55.36
Gaston Shoals	5.56	8.19	5.76	6.66	5.65	4.47	3.89	6.38	0.80	5.65	0.96	4.74	58.71
Georgetown	2.60	5.88	5.19	3.68	12.65	8.55	7.90	3.75	3.68	6.93	T.	7.62	68.43
Greenville	5.32	7.31	5.95	4.97	6.28	6.59	5.21	0.95	0.72	4.77	0.48	6.80	55.25
Greenwood	4.05	7.86	8.64	6.83	6.17	4.02	6.76	4.05	1.96	5.97	0.90	3.45	60.66
Heath Spring	3.01	7.50	8.00	6.32	2.63	6.81	8.09	8.60	0.27	6.06	0.93	4.53	62.75
Kershaw	2.88	6.95	6.69	5.52	3.07	7.34	9.44	6.13	0.10	5.22	0.91	4.06	58.31
Kingstree	2.09	3.90	5.52	3.67	5.03	7.56	5.67	6.56	1.35	5.20	0.49	4.25	51.29
Landrum	8.64	8.51	10.02	8.30	11.93	5.24	6.70	1.55	0.90	4.63	0.90	5.86	73.18
Laurens	5.59	9.22	7.30	5.63	5.59	8.52	4.58	4.00	0.10	4.48	0.52	4.84	60.47
Liberty	6.12	6.06	6.92	6.25	11.21	4.19	7.14	0.89	1.36	3.64	0.27	9.81	63.86
Little Mountain	2.95	8.53	8.40	5.29	2.69	5.20	4.50	5.13	0.08	6.12	0.68	3.63	53.20
Monetta	3.05	7.07	10.10	4.63	5.57	2.74	6.42	3.00	0.74	6.97	0.67	2.82	53.78
Newberry	2.25	8.06	7.96	7.55	6.00	7.47	3.98	6.41	0.31	4.55	1.22	4.30	60.06
Orangeburg (No. 1)	2.59	4.92	6.25	3.32	7.67	5.45	12.19	6.14	0.40	3.30	0.51	4.04	56.78
Orangeburg (No. 2)	2.74	4.81	6.26	2.10	7.06	3.22	.....	5.73	.....	3.04	1.24	4.54	.....
Parris Island	3.40	5.30	6.00	1.36	9.80	2.80	3.50	11.10	0.90	7.60	0.00	6.10	57.86
Pelzer	5.46	8.56	6.76	6.28	4.98	6.20	5.20	1.55	1.18	4.41	0.60	6.92	58.10
Pinopolis	2.94	4.99	5.52	5.21	6.51	8.16	10.10	3.22	0.75	.....	0.30	.....	.....
Rimini	3.04	5.25	6.14	3.80	10.78	7.31	11.52	6.80	0.00	5.45	0.60	4.15	64.84
St. George	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T.	4.35	.....
Saluda	3.20	6.92	9.44	6.21	.....	.....	.....	.....	.....	.....	.....	.....	.....
Santuck	4.07	9.19	7.15	5.50	4.48	6.04	4.95	8.20	0.64	5.08	0.97	4.33	60.60
Society Hill	2.68	6.88	6.21	4.36	3.34	7.50	12.58	6.68	1.60	7.54	1.27	5.88	66.52
Spartanburg	5.22	8.25	6.07	7.35	5.35	3.58	4.84	1.33	1.77	3.17	0.57	5.59	53.09
Summerville	3.40	6.17	4.83	3.58	7.49	8.13	10.32	7.02	3.23	4.58	0.32	7.59	66.66
Trenton	2.58	4.85	8.59	3.71	6.33	4.45	7.61	5.40	1.20	7.09	0.88	3.28	55.97
Walhalla	7.39	7.02	7.93	6.15	7.03	4.43	7.09	1.29	0.56	4.35	0.63	8.51	62.38
Wedgefield	.....	.....	.....	.....	.....	.....	.....	.....	0.62	3.93	0.55	3.45	.....
Winnsboro	2.65	7.39	8.30	8.03	4.39	5.29	6.23	4.21	2.28	6.21	0.98	3.80	59.76
Winthrop College	4.91	7.79	7.67	5.12	3.43	4.32	5.61	1.99	1.57	3.99	0.81	5.72	52.93
Yemassee	2.65	3.84	4.84	1.02	6.95	5.33	6.84	12.73	2.16	6.14	T.	7.35	59.85
South Dakota.													
Aberdeen	1.55	2.35	1.63	2.57	3.36	2.97	0.75	0.52	0.58	0.36	3.42	0.70	20.76
Academy	0.45	1.05	0.20	1.13	1.77	4.35	3.95	2.72	0.00	1.43	1.80	0.80	19.65
Alexandria	.....	.....	0.25	.....	1.92	3.95	4.50	1.51	0.27	1.12	.....	0.80	.....
Ardmore	0.55	0.14	T.	3.21	2.56	2.59	4.07	.....	0.15	0.83	2.19	0.41	.....
Armour	0.76	1.08	0.55	0.51	1.72	4.01	5.50	2.86	0.01	1.23	1.49	0.80	20.52
Bellefourche	0.67	0.27	0.89	2.41	3.79	3.16	5.95	0.80	T.	0.36	2.44	0.65	21.39
Britton	0.40	2.92	0.79	2.09	4.01	3.66	0.44	1.39	1.84	0.23	3.08	0.29	21.14
Brookings	0.40	1.73	0.79	0.42	1.82	3.75	2.31	1.70	0.36	0.81	3.08	0.20	17.87
Camp Crook	0.54	0.49	0.26	2.45	3.97	5.50	3.09	1.92	0.10	0.78	1.55	0.20	20.85
Canton	0.45	.....	1.30	1.35	1.50	1.91	5.15	2.45	0.33	0.93	4.45	.....	.....
Canistota	.....	.....	.....	.....	.....	.....	.....	.....	0.22	0.85	2.35	0.35	.....
Castlewood	0.81	1.92	1.01	1.79	4.39	1.55	1.16	2.11	0.41	0.96	3.79	0.22	20.12
Cedarbutte	2.03	0.19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Centerville	1.15	1.01	0.91	1.82	1.67	2.25	5.51	2.50	2.64	1.05	2.68	0.44	23.63
Clark	1.40	1.30	1.30	1.82	2.97	1.47	0.74	0.93	0.23	0.70	5.15	0.23	18.24
Colome	0.49	0.84	0.41	0.73	3.06	2.07	3.76	1.05	T.	0.98	2.22	0.58	16.19
Cottonwood	0.91	0.32	0.00	1.25	2.87	5.43	6.48	0.72	0.16	0.92	2.72	0.60	22.41
Crow Creek	1.35	0.97	0.25	0.55	.....	.....	.....	.....	.....	.....	2.42	0.72	.....
Custer	0.77	0.17	0.23	2.88	4.30	3.23	6.60	2.55	0.41	0.38	2.37	0.33	24.22
Deadwood	1.45	0.50	0.73	2.60	13.75	6.30	8.15	2.30	0.00	2.25	5.50	1.90	45.43
Deerfield	1.00	0.15	0.19	2.12	4.70	2.14	5.29	4.46	0.36	0.69	2.64	0.20	24.94
De Smet	1.90	2.45	0.75	0.62	3.92	3.25	2.16	2.12	0.30	1.02	2.35	.....	.....
Dowling	0.44	0.51	0.27	0.74	4.85	5.22	3.39	1.77	0.35	1.25	4.38	0.96	24.13
Dumont	0.85	0.41	0.28	1.29	2.49	3.31	3.83	1.29	0.14	0.52	1.99	0.52	16.92
Dupree	0.60	0.70	0.18	0.98	2.98	5.25	4.45	1.38	0.78	0.72	3.76	1.83	23.64
Eales	0.49	0.85	0.88	1.03	3.56	4.04	3.30	0.36	0.48	0.46	2.37	0.24	18.06
Elk Mountain	0.87	0.16	0.33	1.95	3.17	2.92	3.24	0.37	0.67	0.70	3.47	0.20	18.15
Eureka	0.16	0.94	0.30	0.89	3.39	3.33	1.66	0.45	0.54	0.63	3.90	0.23	16.47
Fairfax	0.56	0.72	0.37	0.70	2.89	5.09	4.48	2.65	T.	2.69	.....	1.20	.....
Faulkton	0.82	1.08	0.50	1.77	4.46	3.05	0.80	0.67	0.41	0.70	3.35	0.15	17.76
Flandreau	0.89	1.85	1.11	0.10	1.63	2.74	2.63	2.09	0.86	1.09	3.59	0.40	18.98
Forestburg	1.62	2.52	0.74	1.18	2.92	5.39	1.92	0.67	0.45	1.10	2.23	0.53	21.27
Gannvalley	1.20	1.40	0.85	1.22	6.76	5.55	2.65	1.15	0.12	1.32	2.87	0.60	25.69
Greenmont	1.20	0.70	1.01	2.10	4.71	4.41	3.70	2.00	0.20	0.40	4.60	1.00	26.03
Hardingrove	.....	.....	.....	.....	3.27	3.75	1.78	0.73	.....	.....	.....	.....	.....
Hardy Ranger Station	.....	0.40	0.70	0.70	3.76	2.25	2.29	1.08	0.00	0.90	.....	.....	.....
Harveys Ranch	0.85	0.45	0.70	1.25	6.45	3.65	3.39	1.00	T.	0.40	3.60	0.40	22.14
Hermosa	0.41	0.11	0.20	4.34	2.20	2.53	3.96	2.42	0.43	0.52	2.35	0.66	20.13
Highmore	0.45	0.93	1.05	0.93	2.87	3.65	2.85	0.41	0.48	0.53	2.83	0.35	17.33
Hopewell	0.41	0.52	0.43	0.93	3.09	4.30	3.60	1.67	0.23	0.50	2.53	0.42	18.63
Hot Springs	1.50	0.40	0.25	4.22	3.62	2.77	5.61	3.73	0.25	0.30	4.50	0.63	27.78
Howard	0.74	1.27	1.10	1.20	1.93	3.22	3.44	0.41	0.36	0.97	.....	0.20	.....
Huron	1.34	1.20	0.86	0.54	2.47	3.24	1.15	0.39	0.28	0.84	2.72	0.22	15.25
Interior	.....	.....	0.00	1.57	2.36	1.99	5.13	0.10	0.20	0.65	.....	.....	.....
Ipswich	0.60	0.99	0.70	1.36	4.21	2.65	1.49	0.22	0.84	0.52	3.44	0.40	17.33
Isabel	.....	0.25	0.09	0.06	.....	.....	.....	.....	.....	.....	.....	.....	.....
Jefferson	1.07	3.13	1.45	1.43	3.08	.....	.....	0.47	0.35	0.36	2.17	T.	.....
Kadoka	0.70	.....	0.00	0.80	3.65	5.59	8.82	0.41	0.75	.....	.....	.....	.....
Kennebec	0.30	1.00	0.90	0.63	5.16	6.88	2.50	2.21	0.03	0.23	1.58	0.61	20.03
LaDelle	1.02	1.36	1.60	1.35	3.10	2.14	1.70	1.20	.....	0.92	5.42	0.11	.....
Lead	1.49	0.40	0.55	2.55	10.99	5.33	5.40	2.14	0.16	1.14	4.13	1.08	35.36
Lemmon	1.15	1.70	1.23	0.92	3.83	7.60	1.14	0.40	0.30	0.44	3.54	1.15	23.40
McIntosh	0.45	2.55	2.50	0.87	2.50	4.46	1.23	0.18	0.72	0.28	2.54	0.55	18.83
McLaughlin	0.00	.....	.....	.....	5.16	4.16	1.09	0.61	0.47	0.49	3.82	0.40	.....
Marion	1.48	1.55	1.24	T.	1.18	3.84	5.93	1.56	0.77	0.61	3.88	0.48	22.52
Meadow	0.40	1.25	1.05	1.06	3.21	4.09	2.28	1.25	0.17	0.81	.....	0.43	.....
Mellette	2.20	2.70	2.38	1.84	5.31	2.14	0.56	0.63	0.20	1.71	.....	0.60	.....
Menno	0.50	0.95	0.30	0.65	0.80	4.15	5.70	3.30	0.00	1.30	2.40	0.10	20.15
Milbank	1.04	3.19	0.66	1.92	2.52	1.11	1.26	1.84	1.35	1.23	4.76	.....	.....
Miller	0.45	0.70	1.18	1.26	3.17	3.22	1.36	0.92	0.18	0.60	2.29	0.23	15.56
Mitchell	0.67	1.61	0.27	1.24	2.59	3.05	4.27	1.35	0.29	1.17	1.85	0.38	20.94

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
South Dakota—Continued.													
Mud Butte	0.34	0.38	0.62	0.91	3.47	7.15	3.99	0.42	0.05	1.71	2.93	0.12	22.09
Murdo	0.27	0.19	0.60	0.70	4.23	3.91	2.95	2.94	0.23	0.52	3.85	0.30	20.69
Newell	1.31	0.38	0.20	2.84	3.42	3.74	6.52	0.90	T.	0.79	2.82	0.24	23.16
Norris	.....	.....	.....	3.04	.....	4.08	8.30	0.79	0.62	0.70	3.70	1.53	.....
Oelrichs	1.50	0.60	0.00	3.25	1.90	3.82	8.37	0.55	.....	T.	4.28	1.20	.....
Onaka	1.25	0.90	1.02	1.00	5.52	3.62	2.35	0.40	0.70	0.55	3.15	0.30	20.76
Onida	0.63	0.80	0.41	0.22	5.23	3.71	2.11	2.73	0.42	0.51	1.04	0.10	17.91
Orman	0.53	0.46	0.38	2.21	3.93	3.78	7.13	0.51	T.	0.25	1.00	0.60	20.78
Ottumwa	1.20	0.90	0.50	1.00	3.51	3.96	.....	.....	.....	.....	3.58	1.40	.....
Parkston	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.58	1.98	0.30	.....
Pierre	0.68	0.49	0.56	0.59	3.58	4.60	2.84	2.03	0.19	0.44	3.16	0.31	19.47
Pine Ridge	0.98	.....	T.	.....	.....	.....	.....	.....	.....	.....	.....	0.70	.....
Pollock	0.23	1.87	0.62	0.92	2.72	3.07	1.43	0.05	0.44	0.54	2.80	0.25	14.94
Rapid City	0.97	0.44	0.10	3.22	3.73	2.62	4.33	1.22	0.75	0.60	3.24	0.28	21.50
Redfield	0.67	3.65	2.04	2.60	4.44	2.67	0.80	0.13	0.30	0.40	2.83	0.40	20.93
Redig	0.78	1.01	0.53	1.94	3.31	5.74	3.67	0.88	T.	1.07	2.15	0.55	21.63
Rochford	1.32	0.50	0.39	2.93	4.75	3.02	5.51	4.17	0.10	0.92	4.82	0.45	28.88
Rosebud Agency	1.88	0.26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Roslyn	0.70	0.90	1.17	1.99	2.18	0.76	1.73	1.12	0.86	0.66	4.39	0.21	16.67
St. Francis	.....	.....	.....	.....	.....	.....	.....	0.85	0.00	0.57	2.78	0.63	.....
Sioux Falls	2.23	0.80	0.84	0.56	2.15	2.75	6.56	1.31	1.19	1.01	3.18	0.52	23.10
Spearfish	1.27	0.19	0.42	2.25	10.14	6.64	5.30	4.35	0.07	1.19	4.50	0.71	37.03
Tyndall	0.85	0.10	0.31	0.50	1.08	2.57	3.92	1.98	0.37	1.60	1.62	0.33	15.23
Vale	0.91	0.30	0.14	2.40	3.59	4.19	4.40	0.92	T.	0.79	2.78	0.38	20.80
Vermilion	0.85	0.89	0.99	3.81	2.58	3.55	3.87	1.01	0.79	1.14	3.75	0.18	23.41
Vivian	0.50	0.40	0.75	0.71	2.49	5.83	3.44	3.86	0.27	0.45	2.32	0.50	21.52
Wagner	1.50	0.35	1.35	0.31	2.16	2.76	5.41	2.09	0.11	1.59	1.98	1.00	20.61
Waters Ranch	1.33	0.35	0.54	1.52	7.28	6.57	4.43	3.83	0.00	1.25	3.49	0.99	31.58
Watertown	1.87	2.28	0.56	1.56	3.49	2.03	1.82	2.39	0.67	0.52	2.93	0.35	20.47
Wentworth	0.75	1.84	1.06	0.41	2.15	3.66	4.81	2.18	0.65	0.98	3.36	0.26	22.11
White Lake	1.16	1.35	0.41	0.78	3.96	4.39	2.94	1.64	0.10	1.30	1.37	0.65	20.05
Wood	0.90	0.51	0.71	0.54	3.35	3.88	4.64	5.94	0.23	0.91	2.63	0.55	24.79
Yankton	1.77	0.74	0.93	1.37	1.77	2.62	3.17	0.96	0.85	0.73	2.57	0.20	17.68
Tennessee.													
Ashwood	4.31	6.20	10.55	5.55	7.20	2.63	3.10	4.30	1.10	0.80	2.65	8.72	57.11
Bluff City	4.98	5.48	5.76	5.54	3.73	4.79	8.76	4.29	0.14	2.11	1.74	7.38	54.70
Brownsville	3.53	3.37	8.02	3.83	5.17	1.23	5.27	1.23	2.67	0.84	3.40	8.15	46.71
Carthage	3.67	4.35	9.69	5.31	4.72	4.13	9.49	2.59	2.77	0.83	2.21	7.37	57.13
Cedar Hill	3.38	4.33	9.09	5.39	5.81	2.20	10.56	2.05	3.76	1.45	2.96	7.77	58.75
Celina	3.72	5.03	8.86	5.40	3.22	3.15	7.20	4.77	2.87	1.75	2.12	9.71	57.80
Charleston	6.06	4.21	10.07	4.85	3.08	3.52	3.44	2.77	0.36	1.87	0.84	8.00	49.07
Chattanooga	6.29	4.56	9.80	4.35	4.21	4.56	3.65	5.22	0.78	1.72	1.24	8.95	55.33
Clarksville	2.73	4.05	9.31	4.51	3.17	2.03	8.19	2.35	3.66	1.90	3.10	6.35	51.35
Clinton	3.90	3.87	8.84	6.86	4.30	7.41	6.76	4.34	0.93	1.29	2.18	7.06	58.34
Coldwater	5.80	4.89	12.52	5.77	6.32	4.34	1.47	2.91	0.75	1.30	1.21	8.62	55.90
Cookeville	4.75	4.54	11.16	6.29	3.80	2.97	8.25	2.32	2.87	1.80	2.79	6.64	58.18
Copperhill	8.67	5.27	11.11	5.81	7.19	1.87	5.27	2.19	1.20	1.94	0.57	9.11	60.20
Covington	3.05	2.82	7.55	3.14	7.10	1.74	7.73	1.66	2.62	1.40	3.53	7.47	49.71
Crossville (near)	5.32	4.10	9.69	8.16	5.51	7.06	7.10	9.28	1.72	2.85	1.42	7.84	70.05
Dandridge	6.68	4.04	5.79	4.66	3.89	2.81	4.92	3.30	1.56	1.50	1.92	7.95	49.02
Decatur	6.20	4.68	10.42	5.02	3.51	4.92	4.30	4.44	1.38	1.30	1.95	8.84	56.96
Dickson	2.20	3.56	10.42	5.69	2.58	2.98	8.75	0.93	1.52	1.27	2.41	6.18	49.49
Dover	2.35	3.80	8.29	4.31	3.30	1.19	7.59	1.46	2.43	1.64	3.20	4.99	44.55
Dyersburg	3.09	3.42	9.70	4.85	8.30	4.35	5.16	1.85	3.14	1.80	4.63	7.08	57.37
Elizabethton	4.31	4.25	5.89	4.55	4.26	3.87	8.40	2.49	0.60	3.81	1.04	6.02	49.49
Florence	3.66	4.25	9.96	5.97	3.88	4.68	3.93	4.48	1.30	0.56	2.20	6.33	51.20
Franklin	3.05	5.11	10.37	4.46	4.83	3.47	4.96	3.36	0.81	0.84	2.42	7.12	50.50
Gatlinburg	6.53	4.05	6.77	5.50	3.91	5.25	10.52	4.91	1.75	1.78	1.66	8.76	61.39
Greeneville (near)	5.51	3.51	4.04	4.46	3.06	2.33	3.00	3.13	2.01	2.06	1.48	8.37	42.96
Halls Hill	3.94	4.69	10.74	5.86	6.16	4.65	4.78	3.06	1.23	0.80	2.88	7.48	55.77
Henderson	5.75	3.48	11.80	5.11	6.39	4.09	5.13	0.37	2.09	0.98	4.84	7.54	57.58
Hohenwald	3.78	4.73	11.55	6.37	4.38	2.71	3.52	3.09	1.72	1.42	3.52	9.53	56.32
Huntingdon	3.21	3.64	8.60	5.21	6.84	2.89	5.31	1.46	0.99	1.21	2.23	6.73	48.32
Jackson	2.84	3.02	8.59	4.63	6.38	1.62	3.89	0.75	2.43	0.94	2.85	7.20	45.14
Jefferson City	6.26	3.78	8.02	4.06	4.77	4.27	5.35	5.08	1.11	1.31	1.55	6.94	51.50
Johnson City	5.15	4.38	6.67	5.58	.....	.....	5.86	3.62	4.40	2.74	1.74	7.00	.....
Johnsonville	2.77	3.29	8.38	5.95	5.67	3.78	3.82	1.56	2.05	1.10	4.65	7.04	50.06
Kenton	2.79	3.55	7.66	3.82	3.17	2.17	4.76	0.80	0.44	1.02	2.24	4.71	37.13
Kingsport	.....	.....	.....	.....	.....	.....	.....	4.89	2.17	2.07	1.57	7.28	.....
Kingston	4.31	4.79	9.32	6.23	3.10	6.04	2.87	2.95	2.65	1.61	1.93	6.30	52.10
Knoxville	4.64	4.09	7.60	4.61	3.82	3.64	4.02	3.47	1.86	1.39	1.80	7.27	48.21
Lebanon (near)	2.74	3.62	8.78	6.37	8.32	6.39	6.38	4.43	3.77	1.05	2.35	6.25	60.45
Lewisburg	4.20	6.08	11.86	6.06	4.56	3.08	2.12	2.90	0.38	1.30	1.54	11.71	55.78
Liberty	4.74	4.32	10.13	6.68	4.85	6.10	5.70	3.35	1.45	1.30	3.10	7.23	58.95
Loretto	4.76	5.17	10.81	.....	.....	.....	1.05	3.39	2.02	1.03	2.08	9.04	.....
Loudon	5.75	5.15	7.88	7.18	4.26	7.60	2.86	2.72	1.82	0.62	1.56	7.78	55.18
Lynnville	4.47	5.60	12.25	5.05	4.96	3.62	4.02	3.51	1.99	2.04	1.76	9.64	58.91
McGhee	7.85	4.73	7.81	5.52	3.30	6.06	6.00	2.40	2.19	1.49	2.17	9.78	59.30
McMinnville	5.53	4.76	10.65	6.52	4.18	5.79	5.09	2.93	1.12	1.57	1.77	10.01	59.92
Memphis	2.26	3.30	8.24	3.21	3.48	3.31	3.71	0.76	1.41	0.89	3.50	5.19	39.26
Milan	3.55	3.04	7.52	4.36	5.08	1.52	5.96	0.60	1.68	1.20	2.47	8.26	45.84
Moscow	3.40	5.18	12.32	6.59	8.16	5.46	7.80	3.15	3.14	1.64	3.67	5.92	66.43
Mountain City	.....	3.99	7.02	4.86	4.60	3.32	7.45	.....	1.28	3.90	.....	.....	.....
Nashville	2.90	3.89	9.32	4.53	4.39	5.37	6.15	3.83	3.28	0.75	1.80	6.29	52.50
Newport	5.36	4.24	4.51	4.99	3.85	5.18	6.27	2.85	1.02	1.34	0.93	8.41	48.95
New River	3.47	5.72	9.36	8.61	4.87	7.15	4.45	4.75	1.67	0.98	1.23	4.42	56.68
Palmetto	5.32	4.73	10.93	5.67	5.76	5.99	4.26	2.89	2.16	1.84	1.62	10.80	61.97
Perryville	3.87	4.23	12.01	5.00	4.82	2.80	4.12	1.94	0.35	1.43	5.56	9.60	55.73
Pinewood	2.62	4.72	9.75	5.01	4.96	3.02	8.61	1.98	1.60	0.90	3.00	8.09	54.26
Rockwood	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.55	7.27	.....
Rogersville	5.24	4.79	7.02	5.58	2.37	4.07	5.71	2.65	1.48	1.07	1.64	7.15	48.77
Rugby	4.77	6.09	11.96	6.88	4.12	6.64	7.88	9.22	3.05	2.20	2.25	6.78	71.78
Savannah	3.15	4.77	12.17	5.03	5.72	3.61	5.90	1.69	0.35	1.01	4.80	7.17	55.37
Sevierville	5.62	3.92	6.55	5.02	4.73	6.89	5.26	5.15	1.34	1.23	2.42	9.16	57.29

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Tennessee—Continued.													
Sewanee	5.79	4.80	12.63	6.35	7.57	7.60	5.06	4.33	2.03	1.77	1.82	9.28	69.03
Sparta (near)	.....	.....	.....	5.73	7.39	1.71	3.12	.....	.....	.....	.....	.....	.....
Springville	2.40	3.34	8.16	4.34	3.12	4.22	7.99	1.96	1.82	1.58	3.47	6.57	48.97
Tazewell	4.91	5.28	7.15	6.42	2.78	3.58	4.88	2.52	0.66	1.41	2.14	6.77	48.50
Tullahoma	5.22	5.09	13.04	6.43	4.85	5.68	3.35	4.79	0.79	1.41	2.04	12.17	64.86
Union City	2.38	3.55	9.14	4.53	3.69	2.47	3.75	1.53	1.36	1.85	3.38	5.96	43.59
Walling	5.01	4.09	10.31	8.20	5.08	6.33	5.53	3.97	2.15	1.14	2.50	7.31	61.68
Waynesboro	3.74	5.13	9.39	6.63	6.58	2.87	3.82	2.25	1.01	1.39	3.38	9.79	55.98
Worsham	3.05	3.18	10.59	4.72	5.11	3.52	5.63	2.47	2.70	1.21	2.13	6.48	50.79
Texas.													
Abilene	1.18	0.46	1.21	8.71	5.34	1.80	0.96	0.20	0.32	2.43	1.97	0.20	24.78
Albany	1.40	0.54	1.84	9.71	3.73	2.40	2.20	1.10	1.06	2.80	3.66	T.	30.44
Alice	0.79	0.86	0.65	1.08	5.09	3.59	0.75	0.39	5.23	4.18	1.49	0.11	24.21
Alvin	5.93	2.14	8.51	2.28	7.45	7.54	2.97	2.90	5.92	5.29	4.27	9.93	65.13
Amarillo	0.78	1.44	4.06	3.25	1.60	3.77	1.04	0.78	1.41	0.23	1.39	0.10	19.85
Anahuac	6.77	2.90	6.95	4.07	4.37	11.82	5.64	1.54	3.63	4.59	2.15	3.94	58.37
Anderson	6.80	5.03	6.42	5.41	11.22	2.56	0.65	1.30	1.00	2.27	4.38	1.56	48.54
Angleton	5.87	1.65	8.49	2.17	4.98	15.05	9.29	2.92	5.67	7.02	1.80	3.05	67.96
Arthur City	1.40	2.70	3.00	7.60	2.95	1.40	2.40	2.30	0.80	1.80	5.00	0.60	31.95
Aspermont	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.73	0.00	.....
Austin	4.32	2.71	3.77	8.67	8.16	2.78	1.24	0.21	1.14	1.67	2.28	0.37	37.32
Austwell	3.74	1.22	4.51	1.66	4.30	8.71	0.25	1.94	12.91	4.03	1.33	0.00	45.20
Ballinger	0.30	0.10	0.65	6.89	4.60	1.25	1.75	0.55	3.00	2.65	4.10	T.	25.84
Beaumont	9.34	4.64	5.35	4.66	5.01	9.78	10.16	2.07	2.72	2.27	2.59	3.47	62.06
Beeville	1.62	1.73	4.14	1.98	6.47	5.52	2.13	2.62	6.21	1.93	2.93	0.44	37.72
Big Spring	0.50	0.02	1.41	12.77	2.63	2.63	0.38	0.04	0.00	1.11	1.35	0.00	22.84
Big Wells	0.39	0.45	2.37	6.04	2.73	6.67	0.10	0.00	2.71	2.20	0.57	0.00	24.23
Blanco	1.14	1.34	2.44	5.78	3.99	1.25	0.82	0.50	0.70	3.52	1.19	T.	22.67
Boerne	1.42	1.54	3.18	7.59	3.22	3.15	0.28	0.41	1.66	2.24	1.41	0.13	26.23
Bonham	1.79	2.34	3.21	10.34	4.23	3.25	1.94	0.35	1.04	1.03	5.11	0.92	35.55
Bon Wier	5.60	4.31	10.19	6.52	7.11	6.18	6.18	2.94	1.64	2.19	3.77	4.07	60.70
Booker	.....	.....	.....	.....	2.30	1.61	1.01	0.27	1.23	.....	.....	.....	.....
Bowie	0.99	1.52	1.56	7.81	4.70	1.90	1.52	0.49	0.48	3.16	3.42	0.09	27.64
Brazoria	6.58	2.69	3.80	2.13	2.39	11.94	4.22	1.49	13.05	6.75	2.74	2.78	60.56
Brazos	1.10	0.80	1.80	9.50	12.90	1.30	0.70	0.30	0.50	1.99	3.17	0.00	34.06
Brenham	6.79	3.04	7.02	4.89	8.20	2.54	0.73	2.09	1.15	2.22	2.90	0.57	42.14
Bridgeport	1.30	1.51	2.53	11.14	4.42	1.19	2.00	0.30	0.20	1.69	3.86	0.35	30.49
Brownsville	1.51	3.17	1.29	1.52	3.90	5.55	1.92	2.43	12.61	0.74	3.67	0.38	38.69
Brownwood	0.61	0.58	0.97	11.65	9.20	0.25	2.47	1.98	1.05	2.81	6.50	T.	38.07
Buena Vista	0.20	T.	0.37	3.01	0.86	1.03	0.51	T.	0.49	0.64	0.87	0.00	8.58
Cameron	3.36	3.45	3.42	8.05	5.11	1.48	0.47	1.59	0.51	1.83	2.98	0.20	32.45
Canadian	0.85	1.16	5.62	6.38	2.20	2.08	0.28	1.21	0.92	0.86	2.11	0.02	23.69
Center	.....	.....	.....	.....	.....	.....	6.71	4.24	0.50	0.40	.....	.....	.....
Chillicothe	0.59	0.66	1.66	4.33	4.61	0.97	3.34	0.66	0.47	1.01	1.55	0.07	18.92
Clarendon	1.10	0.37	3.45	6.79	1.52	3.40	0.75	0.42	0.38	0.25	1.95	T.	20.38
Clarksville	2.36	4.66	5.97	6.20	4.46	4.45	1.29	2.22	0.80	2.07	3.05	0.60	38.13
Claude	0.26	0.66	1.88	2.93	1.96	2.17	0.00	1.10	0.62	0.00	1.72	T.	13.30
Claytonville	0.67	0.29	0.50	10.11	2.99	3.78	0.00	.....	.....	.....	2.68	0.00	.....
Cleburne	2.04	2.39	2.57	12.44	9.85	1.77	0.74	0.27	0.99	2.43	1.72	0.62	37.83
Clifton	2.18	1.76	3.88	12.52	6.67	0.62	1.57	1.35	0.99	1.89	1.41	0.04	34.88
Clint	0.07	0.00	0.00	0.32	0.30	0.38	0.80	0.60	0.34	0.71	0.16	0.00	3.68
Coleman	0.43	0.34	T.	9.39	7.42	0.89	1.06	1.28	0.36	2.76	3.78	T.	27.66
College Station	5.56	4.14	3.79	7.85	8.45	3.94	0.51	0.74	1.51	1.55	3.35	1.01	42.40
Colorado	0.73	0.17	1.27	12.28	4.98	2.65	0.14	0.21	T.	0.81	1.61	0.22	25.07
Columbus	7.40	1.74	7.18	3.83	4.86	.....	1.53	1.37	5.45	3.73	4.60	0.99	.....
Conroe	5.75	3.63	7.94	5.26	4.58	7.13	0.53	2.11	2.02	2.17	6.30	2.98	50.40
Copperas Cove	2.03	1.86	3.67	10.91	5.20	1.61	0.92	0.00	1.73	2.26	1.00	0.00	31.19
Corpus Christi	1.12	0.51	0.65	2.96	6.34	3.68	0.03	0.20	13.80	5.88	3.47	0.01	38.65
Corsicana	3.06	3.15	5.16	10.22	3.28	4.27	2.76	0.76	0.70	1.97	2.94	0.37	38.64
Cotulla	.....	.....	.....	.....	.....	.....	4.55	0.25	1.79	3.65	0.45	0.00	.....
Crosbyton	0.49	0.31	0.83	4.83	4.48	1.91	0.77	0.39	0.28	0.93	1.79	0.04	17.05
Crowell	0.62	0.55	0.85	5.75	3.52	1.00	1.55	0.00	1.50	0.60	0.60	0.00	16.54
Cuero	4.64	1.33	4.35	8.91	3.48	1.61	2.03	1.80	2.43	2.35	4.16	0.32	32.41
Dalhart	0.32	1.28	0.73	5.20	5.04	3.22	1.77	1.88	0.24	0.43	0.36	0.02	20.49
Dallas	2.09	2.38	1.82	13.04	6.66	3.38	1.40	0.53	0.68	2.87	2.94	0.37	38.16
Danevang	6.53	1.35	6.25	2.90	5.45	3.55	1.55	2.45	5.20	5.65	5.20	1.20	47.28
Del Rio	0.15	0.11	0.48	4.61	1.23	4.67	2.84	0.15	0.78	1.30	0.28	0.04	16.64
Denison (near)	1.80	2.14	3.22	9.42	7.02	2.98	3.67	2.06	1.22	1.34	6.46	0.36	41.69
Denton	1.66	1.57	2.29	8.73	4.00	3.04	0.26	0.78	0.20	1.89	4.57	0.19	29.27
Dialville	6.60	5.78	9.81	6.77	4.77	6.28	5.55	1.03	1.08	2.86	4.97	0.86	56.36
Dilley	0.60	0.65	4.08	1.56	8.76	2.70	3.30	0.78	2.17	3.52	0.46	0.17	28.75
Dublin	.....	.....	.....	7.96	3.77	0.92	3.02	0.46	1.57	2.95	3.19	0.03	.....
Dundee	.....	.....	.....	.....	.....	0.78	0.51	0.36	0.23	2.10	1.33	0.17	.....
Eagle Pass	0.17	0.20	0.34	3.25	3.98	5.38	1.99	0.19	3.81	0.60	0.65	0.00	20.56
Eastland	1.32	0.68	3.08	10.68	9.35	1.08	1.25	0.40	0.13	2.34	3.33	0.23	34.37
Edna	4.85	1.50	5.13	2.63	4.09	2.96	1.88	0.90	5.51	4.13	4.58	0.26	38.42
El Paso	0.30	T.	0.16	0.28	0.36	0.05	1.08	0.27	1.07	0.35	0.29	0.09	4.30
Encinal	0.37	0.75	3.80	1.10	1.54	9.79	1.56	0.86	2.90	4.67	0.84	0.08	28.26
Fairland	.....	.....	.....	.....	.....	.....	.....	1.92	0.92	1.43	1.15	0.07	.....
Falfurrias	1.03	0.80	0.38	3.00	3.71	2.26	T.	3.00	11.07	2.39	3.99	T.	31.63
Finley	2.98	4.06	6.71	8.32	2.81	2.88	2.35	2.05	1.30	1.46	2.25	0.97	38.14
Flatonia	3.28	2.13	4.65	5.31	3.97	4.04	0.13	0.84	2.74	2.44	2.88	0.19	32.60
Flint	6.61	6.02	10.06	7.86	3.36	2.72	3.87	1.59	0.92	1.66	4.56	2.47	51.70
Floresville	1.40	0.90	1.75	5.15	2.35	6.30	1.90	0.30	2.00	4.30	2.35	T.	28.70
Fort Clark	0.25	0.30	0.90	3.05	1.06	5.43	2.79	0.65	1.89	1.24	0.55	0.00	18.02
Fort Davis	0.10	0.05	0.00	2.63	1.43	1.76	2.22	0.93	1.20	1.50	0.38	.....	.....
Fort McIntosh	0.13	0.32	0.17	2.04	4.77	4.64	2.40	1.20	1.81	2.17	0.55	0.20	20.40
Fort McKavett (near)	0.13	0.03	0.95	5.77	3.34	1.57	2.13	0.85	0.75	3.37	2.90	0.08	21.82
Fort Stockton	0.22	0.01	0.07	2.81	1.35	2.51	0.66	1.27	1.08	1.53	0.60	T.	12.11
Fort Worth	1.63	2.00	1.57	17.64	4.58	1.76	1.35	0.52	0.41	2.38	2.57	0.06	36.42
Fowlerton	.....	.....	3.00	4.04	1.37	1.30	4.77	1.50	3.98	2.22	0.67	0.00	.....
Freeport	3.40	3.30	3.10	1.95	1.90	7.59	2.00	2.60	17.20	5.21	1.55	1.46	61.26
Gainesville	1.59	1.59	2.66	9.07	4.84	1.01	0.24	1.07	1.03	2.84	5.23	0.28	31.15
Galveston	4.84	3.03	2.69	1.66	4.93	8.96	1.60	2.53	8.86	4.78	2.54	2.56	49.01

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Texas—Continued.													
Garden City	1.21	0.02	1.18	7.36	4.70	4.20	.....	0.13	0.00	1.72	2.16	0.01	.....
Gatesville	.....	.....	3.75	13.30	1.70	1.00	0.70	0.79	0.00	1.48	1.10	0.00	.....
Georgetown	2.54	1.39	3.14	8.38	7.79	3.45	0.76	0.08	1.17	1.26	1.89	0.11	31.96
George West	0.88	0.94	3.04	2.42	1.38	4.99	0.00	.....	.....	.....	.....	.....	.....
Gotiad	2.77	1.10	4.14	3.13	1.57	2.25	1.87	0.26	2.90	2.85	3.35	0.15	26.34
Gonzales	2.14	1.76	3.26	4.65	3.34	2.08	0.09	0.63	1.67	3.25	1.69	0.10	24.66
Goose Creek	6.56	2.29	8.05	2.39	6.66	7.84	3.07	0.65	2.09	4.76	0.93	5.07	50.36
Graham	.....	0.93	2.61	9.52	3.90	2.66	.....	.....	.....	1.60	2.66	0.19	.....
Grand Falls	.....	.....	.....	3.05	0.90	1.08	2.50	.....	.....	1.10	.....	.....	.....
Greenville	2.83	3.58	2.29	5.89	3.93	3.91	0.45	2.26	0.00	0.89	3.08	0.24	29.35
Groesbeck	3.18	3.35	5.41	8.24	6.61	5.42	0.80	1.09	1.30	1.42	2.02	0.26	39.10
Hallettsville	5.61	1.27	3.58	3.87	2.34	5.01	1.20	0.44	2.46	3.20	2.80	0.35	32.13
Hamilton	1.80	1.16	2.27	9.15	8.70	1.12	3.25	0.00	0.03	2.58	1.32	0.00	31.38
Hamlin	0.75	0.25	0.45	10.92	5.67	6.04	.....	.....	.....	0.80	1.40	.....	.....
Harlingen	1.05	0.43	0.94	0.74	2.00	7.16	2.27	1.94	13.18	0.49	5.17	0.12	35.49
Haskell	0.86	0.22	1.59	9.43	3.39	1.56	0.44	T.	1.02	1.54	0.62	0.12	20.79
Hebbronville	0.68	0.17	0.00	1.45	2.60	4.28	0.00	0.38	4.20	0.95	1.00	0.10	15.71
Hempstead	6.19	3.66	8.07	7.36	5.85	2.25	2.79	1.65	0.99	3.41	7.09	0.99	50.30
Henderson	5.81	5.47	8.63	7.05	4.01	1.95	3.08	1.98	2.45	4.04	5.07	1.13	50.67
Henrietta	0.64	1.02	1.97	10.10	3.32	1.30	0.95	1.75	0.07	2.72	3.25	0.50	27.59
Hewitt	2.42	2.23	5.15	7.47	3.93	1.48	0.55	1.27	0.23	1.53	1.39	0.05	27.70
Hico	2.23	1.22	1.15	7.19	7.65	0.54	3.53	0.10	2.63	.....	1.95	0.00	.....
Hillsboro	2.83	1.62	5.30	11.20	4.97	1.05	0.75	1.48	1.10	2.33	1.69	0.10	34.42
Hill's Ranch	3.14	2.55	2.75	7.21	4.80	2.83	0.38	0.22	1.11	2.27	1.74	0.17	29.17
Hitchcock	8.58	2.12	4.69	1.38	5.22	9.05	2.83	1.03	.....	.....	.....	.....	.....
Hondo	1.07	0.76	3.94	6.46	3.38	3.78	0.79	0.82	2.65	6.57	1.50	0.15	31.87
Honey Grove	1.78	3.82	3.47	7.98	3.25	3.50	2.29	3.71	0.36	1.25	5.38	0.49	37.28
Houston	5.98	2.25	10.66	5.22	6.07	5.51	2.11	1.72	2.34	2.90	3.82	2.97	51.55
Huntsville	.....	.....	.....	8.65	8.10	4.70	1.20	3.60	0.60	1.00	6.72	1.20	.....
Index	2.46	3.82	8.15	9.84	3.74	4.02	2.75	2.84	0.19	2.02	1.98	2.36	44.17
Jefferson	4.59	6.19	8.10	9.03	4.10	4.39	6.15	2.05	1.09	1.03	5.46	4.59	57.36
Jourdanton	1.09	0.70	2.09	8.13	3.28	5.25	1.02	.....	.....	.....	.....	.....	.....
Junction	0.60	0.10	3.40	7.50	4.15	1.75	2.40	1.50	1.38	1.10	1.40	0.00	25.28
Karnes City	1.74	1.17	2.41	4.24	6.40	4.00	0.61	0.00	3.69	1.98	1.94	0.00	28.18
Kaufman	3.70	2.91	5.20	9.12	6.77	5.87	1.45	1.16	0.60	1.76	2.83	0.14	41.51
Kerrville	0.86	0.78	1.60	6.00	3.77	3.16	3.43	1.00	1.11	2.22	2.20	0.05	26.18
Knickerbocker	T.	T.	0.00	9.50	2.50	1.95	0.71	0.20	1.60	2.30	1.40	0.00	20.16
Kopperl	1.90	1.30	2.40	14.00	10.80	0.20	1.50	0.60	1.20	2.40	2.44	T.	38.74
Lagrange	4.80	2.65	4.84	4.68	3.67	3.73	0.47	0.65	1.39	3.62	1.62	0.41	32.53
Lamesa	0.30	0.10	0.67	5.52	1.97	2.26	0.75	0.05	0.35	0.95	1.57	T.	14.49
Lampasas	1.46	1.24	6.10	11.52	4.99	0.48	1.18	0.43	3.55	1.25	1.65	0.04	33.89
La Parra	2.05	1.00	1.93	3.25	3.85	5.95	1.38	0.45	17.39	1.70	1.98	0.00	40.93
La Pryor	0.58	0.79	1.75	4.87	2.57	4.56	0.65	0.00	1.89	2.13	0.71	0.07	20.57
Laredo	0.10	0.23	0.15	0.96	5.16	5.44	1.99	0.40	2.24	1.56	0.62	0.01	18.86
Liberty	6.31	3.27	7.44	4.93	5.58	7.24	5.39	1.51	1.46	1.25	7.14	4.48	56.00
Lieb	0.00	1.50	2.98	5.12	2.21	3.66	0.50	0.64	0.25	.....	1.85	0.15	.....
Llano	1.17	0.56	3.65	8.34	5.82	2.97	0.81	1.40	0.98	1.70	1.73	T.	29.13
Long Lake	6.54	4.75	6.98	6.73	4.75	2.03	1.86	0.79	2.19	2.92	3.66	0.50	43.70
Longview	4.49	5.96	8.71	8.40	3.33	2.77	3.82	3.66	0.45	0.67	2.60	1.12	45.98
Lubbock	0.34	0.20	0.55	3.59	3.50	2.43	1.36	0.28	0.17	0.56	1.50	0.07	14.55
Luling	2.98	1.83	4.84	6.90	6.34	1.56	0.42	0.36	1.88	3.34	1.98	0.28	32.71
McGregor	2.63	2.67	3.82	13.52	5.20	0.57	0.45	0.00	0.60	1.79	1.22	0.16	32.63
McKinney	2.60	2.83	2.45	11.63	5.78	2.72	0.75	1.60	0.38	2.96	4.78	0.20	38.08
Madisonville	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.54	.....
Marble Falls	1.56	0.74	3.29	6.24	7.12	1.65	0.30	1.79	1.03	1.40	1.22	0.07	26.41
Marshall	5.32	6.35	9.25	6.85	2.27	5.30	4.54	2.26	2.09	0.77	3.09	1.80	49.89
Matagorda	5.87	3.92	5.53	0.77	1.57	13.32	2.51	0.08	15.35	7.44	2.93	1.09	60.38
Mathis	1.16	0.97	1.66	2.03	4.61	3.78	0.00	T.	2.12	2.27	5.18	0.20	23.98
Memphis	1.22	0.35	2.68	3.57	1.82	4.48	1.56	0.00	0.96	0.90	1.98	0.10	19.62
Mercedes	1.96	0.64	1.27	0.00	3.58	4.78	0.38	0.00	7.32	2.04	5.10	0.11	27.10
Merkel	3.79	2.78	5.09	9.58	4.68	1.88	3.89	1.66	0.38	1.74	2.65	0.11	38.23
Miami	1.31	0.75	4.05	3.01	1.53	3.54	.....	.....	.....	2.03	1.60	0.10	.....
Midland	0.56	0.10	0.62	9.77	1.90	1.44	0.00	0.50	0.00	1.16	0.85	0.00	16.90
Mission	0.67	0.26	3.36	0.19	2.29	1.55	0.55	0.02	8.02	0.51	5.56	0.07	23.05
Montell	0.39	0.37	1.05	10.11	2.86	9.00	3.64	0.46	2.41	1.67	0.76	0.00	32.72
Morris Ranch	0.96	0.18	2.30	7.87	3.12	3.42	1.55	0.63	1.74	1.02	0.89	0.06	23.74
Mount Pleasant	3.35	4.60	7.20	5.55	3.45	5.15	1.55	4.60	0.05	1.70	2.68	0.75	40.63
Muleshoe	0.11	0.10	0.31	5.15	1.90	2.17	1.92	0.40	1.60	0.00	0.33	0.00	13.99
Munday	0.70	0.43	1.39	7.56	2.64	1.92	1.44	0.54	0.17	1.45	1.14	0.03	19.41
Nacogdoches	6.36	6.10	8.35	11.66	5.05	2.74	3.11	3.41	1.03	0.70	5.26	3.88	57.65
Navasota	6.41	3.42	7.20	3.98	9.99	1.96	0.53	1.42	1.82	1.49	5.01	1.17	44.40
New Braunfels	1.36	1.72	5.08	6.81	4.02	3.32	0.58	0.53	1.33	4.59	1.31	0.20	30.85
Nixon	1.96	1.54	1.98	5.54	3.75	1.83	0.86	0.63	0.86	2.68	1.62	0.08	23.33
Nolan	.....	.....	.....	.....	2.81	0.91	0.00	0.51	0.80	1.10	1.30	0.35	.....
Orange	6.13	3.45	6.53	2.86	8.01	10.36	3.42	2.60	3.64	0.91	3.13	3.28	54.32
O 2 Ranch	T.	T.	T.	0.55	T.	2.60	1.95	0.20	1.00	1.60	0.45	T.	8.35
Paducah	0.43	0.22	2.47	4.58	2.71	2.54	0.98	T.	0.15	1.46	1.06	0.04	16.64
Paint Rock	0.67	0.13	1.19	4.61	3.73	1.35	1.92	0.20	2.37	2.70	4.21	0.00	23.08
Palestine	5.62	4.40	6.93	7.43	5.62	1.88	4.24	1.73	2.48	3.26	4.37	0.46	48.42
Panhandle	0.65	0.70	4.30	1.00	0.70	0.40	0.50	1.20	1.50	0.90	1.85	0.20	13.90
Paris	1.73	3.28	4.10	6.37	3.66	3.40	10.5	4.51	0.08	0.47	3.90	1.32	33.87
Pearsall	1.32	0.71	4.40	4.86	5.46	3.08	2.03	0.06	2.52	3.59	0.78	0.14	28.95
Pierce	5.53	1.51	10.05	4.14	5.29	3.25	1.07	0.60	4.51	3.58	5.61	1.13	46.27
Plainview	0.68	0.39	1.79	4.12	3.53	2.52	2.82	0.42	0.85	0.33	1.93	0.00	19.38
Port Arthur	5.06	3.48	3.83	1.24	3.40	8.46	3.53	1.62	2.10	3.16	1.78	6.98	44.64
Post	0.42	0.15	T.	6.59	4.18	2.35	4.20	0.25	1.10	1.40	2.29	0.00	22.93
Putnam	1.65	0.40	2.85	9.10	5.39	1.62	0.21	1.10	0.20	2.25	3.45	0.05	28.27
Quanah	0.73	0.70	2.65	5.06	3.03	0.57	1.37	T.	1.15	0.80	0.75	T.	16.81
Raymondville	1.34	1.37	1.64	0.82	5.26	7.19	1.19	0.69	11.13	0.32	4.45	0.18	35.58
Ricardo	1.47	0.41	0.57	3.59	12.48	2.33	2.90	1.29	15.83	1.45	3.13	T.	45.35
Ringo Crossing	2.84	3.56	5.79	9.21	6.01	4.63	2.44	6.31	0.18	1.55	3.02	0.30	45.94
Rio Grande	0.20	0.35	2.04	0.09	2.76	3.00	0.50	0.65	7.50	1.80	4.65	0.60	23.24
Riomedina	.....	.....	.....	.....	.....	.....	.....	.....	1.40	3.80	0.07	0.00	.....
Riverside	6.14	4.39	8.38	10.22	6.23	2.08	0.52	1.45	0.47	1.62	4.01	3.41	48.92
Robstown	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.92	3.44	0.00	.....
Rochelle	0.24	0.22	2.38	11.74	4.67	0.44	.....	0.20	3.19	2.47	1.41	0.00	.....

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Texas—Continued.													
Rockland	5.58	3.15	13.05	6.30	3.25	0.95	1.35	0.55	2.29	0.60	2.80	1.23	41.10
Romero	0.13	0.30	0.45	1.55	4.54	1.79	1.45	0.85	T.	T.	0.55	T.	11.61
Rosenberg	5.66	1.66	7.87	2.61	5.87	3.64	0.51	1.87	2.83	2.90	2.76	1.17	39.35
Rossville					3.08	3.42	0.08	0.73	3.72	4.00	2.88	0.09	
Runge	2.64	1.65	1.87	3.86	3.25	3.98	1.07	1.17	3.67	2.98	3.06	0.18	29.38
Sabinal	0.72	0.69	2.06	6.12	3.61	3.39	0.47	0.16	1.22	1.86	0.78	0.10	21.18
San Angelo	0.41	0.10	0.12	6.07	5.33	2.13	3.40	0.03	1.69	2.08	1.28	T.	22.64
San Antonio	1.23	1.26	3.29	5.46	3.46	3.92	0.10	0.27	0.97	3.55	0.98	0.10	24.59
San Benito	0.68	0.79	1.03	0.37	3.20	5.71	1.32	0.77	18.21	0.19	2.86		
San Marcos	0.35	2.37	4.90	9.45	4.75	2.10	0.06	0.28	0.97	1.45	1.28	0.27	28.23
Santa Gertrudis	0.55		0.00	2.87	2.11	6.32	2.10		13.02	3.70	3.69	0.00	
Sealy	6.32	1.84	14.18	3.50	3.87	2.42	1.68	0.24	2.58	2.70	5.91	1.63	46.87
Seguin												0.21	
Seminole								0.17	0.13	0.63	0.87	0.08	
Sherman	2.19	2.39	2.40	11.67	5.11	3.69	3.76	1.73	T.	1.20	4.14	0.37	38.65
Sinton	1.27	1.30	2.15	1.56							2.25	T.	
Smithville	3.31	2.64	3.92	3.92	6.25	3.68	0.81	1.04	3.31	1.55	0.94	0.23	33.60
Snyder		0.02	1.20	7.43	5.19	4.48	0.05	1.75	T.	0.93	1.65	T.	
Somerville	3.45	3.15	4.15	4.00	5.10	2.40	0.50	2.60	2.50	1.90	1.90	0.75	32.40
Spearman	0.50	1.44	4.70	4.33	3.30	2.55	1.00	0.27	0.90	0.35	1.18	0.20	20.72
Spur	0.31	T.	0.76	5.57	5.41	1.77	0.25	1.60	1.00	1.06	1.80	0.03	19.56
Stephenville	1.30	1.00	1.21	8.46	5.80	1.75	1.28	1.28	0.93	3.13	2.62	0.00	28.76
Substation No. 14					1.02	4.14	1.31	3.23	2.20	3.18	1.93	0.05	
Sugarland	7.56	2.94	7.85	6.01	1.26	6.18	3.85	2.30	3.25	4.01	4.52	2.14	54.87
Sulphur Springs							1.70	4.63	0.01	1.97	2.43	0.25	
Taylor	3.62	2.56	2.89	6.96	6.10	4.29	0.27	1.04	1.25	1.93	2.10	0.14	33.15
Temple	2.68	2.57	3.91	11.63	6.05	2.15	0.70	1.42	1.00	1.53	3.32	0.33	37.29
Three Rivers					1.80	3.10	1.90	2.60	2.10	1.40	1.30	0.00	
Trinidad	4.00	1.56	4.95	10.33	2.61	3.84	3.20	1.16	1.10	0.53	2.85	T.	36.13
Troup	4.91	5.91	9.82	8.81	3.68	1.20	6.15	1.74	0.62	1.79	5.46	0.65	50.74
Uvalde	0.20	0.85	1.35	6.70	1.97	7.45	0.75	T.	0.39	0.65	0.64	T.	20.95
Valley Junction	4.45	4.00	5.31	8.51	9.97	2.50	0.30	2.50	0.87	1.80	5.90	0.15	46.26
Victoria	5.13	1.00	3.73	3.64	2.15	3.72	0.96	4.09	2.67	2.75	4.00	0.08	33.92
Waco	2.97	1.77	5.32	10.72	5.56	2.73	0.55	1.77	0.44	0.87	2.33	T.	35.08
Waxahachie	3.15	2.55	5.30	13.45	7.55	6.55	2.80	1.10	1.20	2.10	2.00	0.10	47.85
Weatherford			2.42	18.11	9.22	3.18	2.10	0.99	0.11	2.28			
Whitsett	1.03	0.64	1.92	4.69	2.93	4.15	1.89	0.00	5.08	2.37	3.49	0.00	28.19
Willis	3.50	3.75	17.00	9.10	7.30	5.65	2.30	0.75			5.10		
Wills Point	3.63		5.19		4.68	4.03	1.08	4.00					
Winfield (near)	2.39	4.94	8.90	7.80	9.47	7.69	1.30	3.20	1.05	2.42	2.90	0.63	52.69
Winters	1.63	0.11	2.55	11.30	4.71	1.05	1.17	0.50	1.47	2.42	1.98	0.00	28.89
Woodsboro			4.33		1.32	5.18	2.00	0.00		3.81			
Utah.													
Alpine	1.46	2.87	0.94	2.32	1.25	0.35	0.24	2.08	0.02	0.18	2.30	2.20	16.21
Alton	1.90	1.13	0.55	1.01	0.53	0.00	0.62	2.83	0.86	0.58	0.80	2.52	13.33
Alunite	0.50	1.00	1.14	0.89	1.91	0.87	1.27	2.74	0.43	0.68	0.46	2.54	14.43
Baker Ranger Station	2.72	1.15	2.75			0.00	0.15	1.04	0.43	0.72	1.40	1.70	
Beaver	0.22	0.81	1.05	1.35	1.03	0.06	0.93	4.06	0.35	0.73	0.74	1.12	12.45
Benmore	2.02	2.94	1.44	2.50	2.28	0.26	0.61	1.97	0.05	0.84	1.75	2.23	18.89
Big Plains	1.45	1.08	1.45	0.80	0.45	0.64	0.41	2.37	0.20	0.85	0.62	1.68	12.00
Black Rock	0.92	0.43	0.66	1.53	1.45	0.00	0.00	1.83	T.	1.00	1.04	1.00	9.86
Blanding	1.92	2.25	1.57	0.35	0.70	0.21	1.22	1.52	0.15	0.10	2.30	1.50	13.79
Bluff								T.	0.00	T.	T.		
Boneta	0.35												
Brigham City	2.03	2.95	2.38	2.44	0.80	1.10	0.93	3.23	0.06	0.18	1.13	3.24	20.47
Bryce Canyon										1.03			
Cannonville									T.	0.71	0.54	0.90	
Castle Dale	0.47	1.03	0.95	0.82	1.42	0.06	0.28	1.48	0.12	0.35	1.25	0.37	8.60
Castle Rock	0.80	1.94	1.32	1.38	1.00	0.05	0.72	2.82	0.04	0.40	1.29	3.15	14.91
Cedar City	1.74	0.50	1.61	3.41	0.40	T.	1.15	2.47	0.17	2.20	1.71	0.30	15.66
Clarkston	1.30	3.25	0.66	0.95	0.35	0.70	1.50	1.30	0.15	0.40	1.45	4.90	16.91
Corinne	1.30	0.80	0.39			0.00	1.30	1.87	0.07	0.46	1.10	1.25	
Cottonwood Sevier						1.99	1.20	2.94	1.96				
Cottonwood Weir	1.92	2.00	3.86	3.69	2.65	0.58	1.03	1.91	0.02	1.99	3.81	2.67	26.13
Delle	0.36	1.00	0.08	0.49	1.00	0.54	0.55	0.93	0.00	0.10	0.85	0.73	6.63
Deseret	0.92	0.65	0.34	1.55	1.56	0.03	0.27	1.29	0.00	0.39	1.85	1.14	9.99
Deseret Alfalfa Station									0.00				
Dry Gulch Ranger Station					3.00	0.72	0.84	3.42	0.91	0.84	2.30	1.40	
Duchesne	0.70	1.28	2.45	0.32	1.11	0.38	1.02	1.43	0.38	0.86	1.42	0.76	12.11
East Fork Ranger Station								3.33					
East Portal					1.83	0.59	0.80	3.28	0.73	0.64	1.78		
Elberta	0.70	1.11	0.99	1.97	1.26	0.59	0.32	1.40	T.	0.75	1.90	1.86	12.85
Elkhorn Ashley	1.00	2.24		3.83	2.11	1.29	0.97	3.15	0.45	0.42	1.73		
Elkhorn Fishlake							2.13	3.53					
Emery	0.27	1.21	0.28	1.00	1.30	0.03		1.30	0.25	0.20	0.60	0.40	
Enterprise	2.64	1.64	0.50	1.51	1.00	0.35	1.68	2.00	T.	1.36	1.50	1.69	15.87
Erekson							1.04		0.00	0.92	0.96	1.70	
Escalante	0.80	0.45	0.60	1.35		0.00	0.50	3.20	2.10	0.20	1.10	0.40	
Farmington	1.18	2.70	2.10	2.51	1.62	1.20	2.16	3.37	T.	0.52	3.17	2.09	23.22
Fillmore	1.69	2.34	0.85	3.74	1.59	0.03	0.43	0.77	0.06	1.93	1.36	2.86	17.65
Fishlake						0.50	1.80	2.01	0.10				
Fort Duchesne	0.33	0.66	0.71	0.98	1.13	0.10	0.70	1.51	0.39	1.28	0.68	0.66	9.13
Fruitland	0.87	1.65	1.29	0.91	1.21	0.84	0.83	2.60	0.27	0.38	1.87	2.28	15.00
Garland		1.26								0.40	1.41	2.08	
Gooseberry Ranger Station		0.68	0.87			1.06	1.54	2.66	0.05				
Government Creek	1.85	1.85	2.13	2.30	1.99	0.38	0.44	2.40	T.	0.64	2.41	2.11	18.50
Grantsville			0.81	1.43	1.56	0.36	0.29	1.92	0.05	0.84	0.47	1.14	
Great Basin Experiment Station						0.78	1.94	2.70	0.18	1.23			
Great Basin Experiment Station, Alpine						1.03	0.94	3.18	0.32	0.60			
Great Basin Experiment Station, Oak Brush						0.93	1.85	1.99	0.72	0.74			
Green River	0.12	0.17	0.35	0.39	0.62	0.40	0.23	1.14	0.35	0.21	0.53	0.16	4.77
Hanksville	0.60	0.12	0.11	0.52	1.37	0.79	0.29	0.25	0.35	0.08	0.31	0.17	4.96

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Utah—Continued.													
Hanna											3.40	1.63	
Hatch	0.88	0.37	0.19	0.94	0.59	0.17	1.59	2.50	0.10	1.18	0.60	0.73	10.34
Heber	1.69	2.08	1.91	2.54	1.21	0.03	0.68	3.01	0.09	0.20	2.35	2.82	18.61
Hiawatha	0.80	2.74	1.42	1.79	3.43	0.53	0.46	3.83	0.35	0.67	1.89	1.25	19.16
High Line City Creek	1.98	5.28	4.13	4.94	2.22	1.05	1.34	2.86	0.05	0.94	4.47	4.37	33.63
Hole-in-the-Rock	1.23	2.40	0.51	1.68	1.33	0.83	0.98	1.63	0.28	2.32	1.26	0.68	15.13
Hoytsville	1.87	1.36	0.66	0.85	0.94	0.31							
Huntsville	2.74	3.08	2.75	1.77	0.47	0.10	1.37	0.81	T.	0.32	1.59	4.43	19.43
Hurricane	1.58	0.73	0.34	0.60	0.58	0.07	0.43	2.93	0.04	0.57	0.68	1.10	9.65
Ibapah	1.16	1.46	1.01	2.32	0.76	0.23	0.93	3.00	0.00	0.67	1.71	0.99	14.24
Joseph	0.32	0.83							0.61	0.46	0.38	1.49	
Jozalia Ranch	1.48	0.78	0.20	1.45	1.00	1.25	0.45	1.90		0.30	0.65	0.31	
Kanab	1.19	1.28	0.88	1.56	0.59	0.42	1.45	3.42	0.55	0.65	1.09	1.69	14.77
Kanosh	1.76	1.99	2.13	2.56	2.07	0.70	0.22	1.75	T.	3.22	1.12	2.55	20.07
Kelton	1.25	0.80	0.32	0.12	0.53	0.34	0.79	1.70	0.20	0.40	0.56	0.48	7.49
Koosharem	0.80	1.12	1.25	1.81	1.85	0.07	0.10	0.04	0.09	0.60	T.		
Laketown	0.53	1.64	0.27	0.82	0.27	0.25	0.30	1.45	0.35	1.11	2.74	0.64	10.37
La Sal	0.55	0.25	0.64	0.30	0.20				0.07		0.33	1.45	
Leeds (near)		1.59	0.55	1.88	1.50	T.	0.60		0.00	0.80	0.75	1.82	
Lehi	1.15	2.10	0.80	1.55	1.00	0.30	0.25	0.96	0.00	0.15	1.72	3.36	13.34
Lemay	0.05	T.	0.01	0.21	0.03	0.02	0.02	0.10	0.00	0.01	0.02	0.70	1.17
Levan	1.59	1.11	1.18	1.27	1.02	0.56	0.60	1.39	T.	1.03	1.21	2.38	13.34
Los	0.26	1.24	1.01	1.56	1.88	1.52	1.70	2.11	0.41	0.30	1.52	1.40	14.91
Lockerby	2.39	2.28	3.04	0.94	1.01	T.	0.49	0.42	0.60	0.55	1.46	1.30	14.48
Logan	1.45	1.85	1.70	2.12	1.65	0.70	0.77	1.28	0.17	0.37	0.55	2.55	15.16
Lone Tree	0.63	0.51	0.69	1.14	1.14	0.11	0.74	0.81	0.55	0.79	1.00	0.81	8.92
Lower American Fork	1.50	2.24	1.75	2.15	1.55	0.39	0.25	2.32	0.28	0.40	3.05	2.25	18.13
Lower Mill Creek	2.45	2.66	3.20	3.95	2.05				0.00	1.03	3.84	3.10	
Lucin	0.80	0.60	0.20	0.20	0.45	0.10	0.85	1.50	T.	0.10	0.20	0.20	5.20
Lund	1.50					0.18	T.	1.76	0.60	T.	1.55	1.04	
McCornick	0.95	0.77	0.76	2.38	1.77	0.22	0.56	1.21	0.00	1.30	0.86	1.09	11.87
Mammoth Ranger Station						1.00	1.33	3.30	1.00				
Manila	0.57	0.75	0.53	1.14	1.23	0.37	0.71	1.23	0.19	1.60	0.83	0.49	9.64
Manti	0.57	1.41	1.80	1.16	1.99	0.84	0.48	1.50	0.11	0.51	0.90	1.98	13.25
Maplewood	1.94	2.50	2.03	3.67	2.07	0.65	0.89	2.33	0.00	1.05	2.86	3.83	23.82
Midlake	0.66	0.05	0.32	0.93	0.52	0.75	0.30	1.05	0.00	0.15	0.20	0.18	5.11
Midvale	1.65	1.88	2.14	3.24	1.61	0.82	0.43	1.79	0.32	1.03	3.14	1.40	19.45
Milford	1.14	0.58	0.82	2.08	1.32	0.12	0.04	0.43	0.10				
Millville	0.44	2.00	2.43	1.55	0.26	0.40	0.20	0.40	0.50	0.50	1.36	3.04	13.08
Moab	0.61	0.70	0.51	1.04	0.57	0.33	0.21	1.16	0.03	0.01	0.69	0.52	6.38
Modena	1.72	0.89	0.45	1.02	1.61	0.23	1.22	2.41	0.04	0.37	1.00	0.61	11.57
Morgan	0.95	4.20	3.40	2.73	0.62	0.23	0.65	1.98	T.	0.60	1.93	4.61	21.90
Moroni	0.43	0.97	0.94	0.86	1.30	0.24	0.35	1.24	0.19	0.84	0.74	1.72	9.82
Mosida	0.95	1.17	0.96	1.20	1.23	0.56	0.43	1.14	0.00	0.16	1.55	1.26	10.61
Mountain Dell	1.95	2.71	2.20	3.36	1.77	0.28	1.48	1.90	T.	0.86	3.46	2.67	22.64
Mountain Ranch Ranger Station						0.91	1.21	1.66	0.33				
Myton	0.27	0.46	0.18	0.73	1.27	0.00	0.71	1.53	0.44	0.77	0.79	0.25	7.40
Nada	1.52	0.71	0.93	1.53	1.49	0.20	0.40	1.13	0.15	1.04	0.92	0.72	10.74
Nephi (near)	1.77	1.18	1.59	1.40	0.88	0.55	0.82	2.05	0.19	0.48	1.14	1.85	13.90
New Harmony	3.50	4.09	2.00	2.02	0.00	0.00	1.54	0.59	0.00	0.52	1.76		
Oak City	1.12	0.97	1.18	2.48	1.94	0.06	1.97	1.62	0.05	1.94	1.69	2.30	17.32
Ogden	1.30	2.55	2.53	1.75	0.91	0.23	0.62	1.52	0.03	0.50	2.22	3.31	17.97
Orderville	2.05	0.99	1.28	1.26	0.73	0.08	0.92	3.93	0.93	0.92	0.89	2.31	16.29
Panguitch	0.80	0.49	0.88	0.85	0.40	0.40	0.60	1.00	0.00	0.75	0.65	0.40	7.22
Park City	2.21	3.64	4.08	4.45	2.00	0.12	0.20	7.45	0.35	0.40	4.40	6.70	36.00
Park Valley	2.18	1.16	1.00	1.12	0.81	0.76	0.51	1.81	0.00	0.17	0.80	0.94	11.26
Parowan	1.38	1.09	0.83	1.97					0.05	1.40	0.20	0.89	
Payson	2.31	1.40	1.87	2.82	1.83	0.78	0.60	2.51	0.08	0.46	2.23	2.99	19.88
Pine View	2.10	2.31	1.37	1.30	0.90								
Pinto	3.00	1.78	0.16	3.93	1.36	0.72	1.73	1.98	0.37	1.25	2.24	2.37	20.89
Piute Dam	0.52	0.62	0.54	0.81	0.59	0.46	1.16	1.58	0.70	0.90	T.	1.21	9.09
Price	0.85	0.81	1.34	0.92	1.53	0.47	0.94	1.19	0.05	0.59	0.65	1.28	10.62
Provo	1.40	2.89	1.57	2.86	1.76	0.00	0.42	1.54	0.13	0.59	2.82	3.94	19.92
Provo Beach	1.68	2.60	1.30	2.75	1.80	0.13	0.51	1.71	0.20	0.43	3.55	4.05	20.71
Randolph	0.22	0.75	0.59	0.43	0.10	0.10	0.59	2.31	0.00	1.40	0.50	0.92	7.91
Richfield	0.72	1.20			1.10	0.12			0.00	0.63		1.60	
Richmond	2.61	3.57	2.12	2.14	1.25	0.25	1.38	1.29	0.12	0.61	1.52	2.26	19.12
Riverdale	1.48	1.91	2.86	1.16	1.02	0.09	0.22	1.09	0.00	0.11	1.32	2.62	13.88
Round Valley							0.35	2.70					
St. George	1.25	0.58	0.54	0.60	0.64	0.00	0.63	1.23	0.00	1.04	0.64	0.60	7.75
St. John	0.31	1.38	0.55	1.25	0.96	0.10	0.15	1.09	T.	0.64	1.63	0.77	8.83
Salduro	0.35	0.21	0.19	0.22	0.42	0.28	0.78	0.56	0.01	0.02	0.05	0.07	3.16
Saltair	0.30	1.38	1.15	2.10	1.68	0.00	0.02	0.68	T.	1.54	1.93	0.95	11.73
Salt Creek	2.63	2.80	1.79	1.44	1.60	1.55	1.20	3.60	0.09	2.10	1.85	3.65	24.21
Salt Lake City	1.42	2.36	2.44	3.06	2.16	0.83	0.65	1.85	0.01	0.66	3.33	2.92	21.69
Santaquin	1.72	1.48	2.00	2.69	1.65		0.81	4.17	T.	1.07	3.33	2.29	
Scipio	1.51	3.05	1.73	1.59	1.38	0.55			0.10	1.20	1.21	2.55	
Sells	1.08	1.85	0.98	1.07	1.34	0.15	0.06	2.22	0.00	0.22	1.23	1.27	11.47
Sevier Bridge Dam						0.10	0.35	1.55	0.13	1.03	1.52	2.97	
Silver Lake	4.91	7.76	6.73	6.22	2.62	2.00	1.40	5.86	0.47	1.59	5.45	9.96	54.97
Snake Creek	2.93	5.19	3.13	2.90	1.04	0.03	0.84	3.17	0.39	0.42	2.84	4.11	26.99
Snowville	1.82		0.90	0.90	0.98	0.95	0.80						
Soldier Summit	0.93						2.35	2.29				4.00	
South Fork Ranger Station						0.60	0.60	4.70	0.09	1.10			
Spanish Fork	2.96	2.72	2.04	3.70	1.89	0.27	0.51	2.57	0.23	0.79	2.96	4.00	24.64
Springdale	1.45	1.13	1.50	1.10	1.10	0.43	1.82	5.10	0.48	0.95		2.57	
Sunnyside	0.67	1.47	0.91	0.82	1.02	0.06	0.30	3.20	0.64	0.46	2.47	0.90	12.92
Thistle	4.05	4.08	2.91	2.30	1.72	0.09	0.32	1.96	0.45	0.99	1.81	2.85	23.53
Thompsons	0.30	0.90	1.37	0.43	0.36	0.01	0.30	1.37	0.72	0.10	1.10	0.50	7.46
Tooele	1.83	2.00	3.08	4.36	2.71	0.51	0.31	1.56	0.03	1.21	3.60	2.22	23.42
Tremonton		1.17	0.85	2.17	0.79	0.61	0.90	0.97	0.00	0.51	1.27	1.22	
Trout Creek Ranger Station							0.19	3.94	0.46				
University of Utah	1.07	1.67	0.78	2.81	1.74	1.26	0.37	3.07	0.02	0.92	3.45	3.46	20.62
Vernal	0.62	0.83	1.08	1.94	1.54	0.03	1.58		0.20			0.70	
Victor	0.30	0.53	0.50	0.14	0.60	0.14	0.40	2.61					

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Utah—Continued.													
Watson	0.63	0.33	0.55	2.45	0.77	0.03	0.82	3.93	0.69	0.80	1.17	1.18	13.35
Wendover	0.60	0.32	0.28	0.65	0.53	0.14	1.11	0.35	0.00	0.17	0.31	0.30	4.76
Widtsoe	0.98	0.60	0.46	1.28	0.35	0.33	0.38	1.88	0.98	0.13	0.59	0.21	8.17
Winter Quarters	0.83	2.42	1.50	1.10	1.70	2.02	0.68	3.69	0.73	0.65	1.52	3.61	20.45
Vermont.													
Bellows Falls	.....	.....	5.41	.....	4.37	.....	.....	.....	2.34	1.28	15.0	.....	.....
Bennington	1.67	2.45	4.25	3.83	2.98	.....	2.17	.....	.....	1.68	1.97	1.60	.....
Bloomfield	1.87	2.78	3.32	3.46	2.21	7.60	3.08	7.99	2.15	2.87	1.43	1.75	40.51
Burlington	1.26	1.98	2.88	3.38	2.22	9.92	0.98	4.14	2.21	1.98	2.14	1.17	34.26
Cavendish	2.69	3.00	4.51	4.12	4.35	6.29	1.92	3.10	1.72	1.76	1.40	3.32	38.18
Chelsea	1.87	2.65	4.73	.....	2.83	9.01	1.99	4.27	1.71	2.45	0.89	2.93	.....
Cornwall	0.79	1.55	2.05	3.97	.....	7.28	2.27	3.08	1.80	1.50	1.08	0.99	.....
Enosburg Falls	1.75	2.89	2.17	4.78	2.10	10.04	2.05	5.41	1.68	2.19	2.41	1.40	38.87
Garfield	2.09	2.93	3.11	4.47	2.15	10.35	1.65	5.01	1.49	1.68	2.15	1.94	39.02
Northfield	1.21	3.14	4.55	2.88	2.51	7.88	1.18	4.18	2.36	1.63	0.78	1.85	34.15
Rutland	1.67	2.19	4.08	4.04	2.46	5.76	2.58	4.41	1.87	2.35	1.58	1.85	34.84
St. Johnsbury	1.59	2.60	3.65	3.31	2.00	8.05	1.17	3.07	2.35	2.32	0.95	2.27	33.33
Somerset	3.39	3.49	6.10	5.67	5.54	6.53	2.23	5.43	2.35	2.13	2.87	4.45	50.18
Vernon	1.83	2.53	4.80	2.81	4.08	6.07	2.09	5.66	2.85	3.56	1.78	2.62	40.68
White River Junction	2.35	2.36	4.92	3.80	2.82	7.37	2.72	4.01	2.64	1.84	0.85	2.27	37.95
Woodstock	2.65	2.85	3.84	3.21	3.90	7.27	2.65	5.37	1.83	1.96	1.37	2.89	39.7
Virginia.													
Arcola	4.02	2.49	3.69	1.27	3.80	4.40	2.39	2.94	3.38	1.70	0.40	3.18	33.66
Ashland	.....	.....	.....	1.84	4.21	4.23	6.31	6.22	1.63	3.41	0.47	3.97	.....
Blacksburg	2.71	4.12	5.51	1.61	5.46	3.55	5.83	2.84	2.80	2.89	0.65	5.02	42.99
Buchanan	4.99	4.60	5.91	2.98	3.76	5.40	5.64	3.37	1.65	3.32	0.74	4.46	46.82
Burkes Garden	.....	4.58	5.37	3.58	4.75	5.42	6.31	3.12	1.78	4.05	1.51	5.81	.....
Callaville	4.50	5.91	6.36	2.67	5.31	4.69	10.81	8.61	0.20	6.55	0.58	2.39	58.58
Cape Henry	4.24	4.62	6.29	1.67	1.83	8.74	11.83	6.06	2.39	2.75	0.73	3.94	55.09
Catawba Sanatorium	3.37	3.54	6.03	1.97	6.01	4.98	5.21	2.45	1.78	2.65	1.18	.....	.....
Charlottesville (near)	4.64	4.19	5.97	1.73	3.44	4.73	3.94	4.97	1.00	3.46	0.21	4.03	42.21
Chatham	.....	.....	.....	.....	.....	.....	5.69	3.32	1.18	3.12	0.21	.....	.....
Clarksville	5.82	4.84	6.44	2.97	8.24	4.07	6.03	6.15	T.	4.56	0.40	2.91	52.43
Columbia	4.47	3.80	6.36	1.77	2.22	3.36	10.20	5.96	1.36	2.73	0.50	4.43	47.16
Culpeper	3.99	4.04	4.73	1.29	3.81	6.08	2.47	5.04	0.76	2.23	0.20	3.42	38.06
Dahlgren	3.77	3.54	5.98	.....	3.10	3.79	.....	7.32	1.57	3.55	0.50	3.97	.....
Dale Enterprise	2.13	3.65	4.12	1.20	4.53	4.08	5.51	4.29	0.31	2.43	0.37	2.80	35.42
Dante	3.92	4.58	5.78	3.93	5.18	6.62	5.84	2.19	1.40	2.31	0.99	5.83	48.57
Danville	5.25	4.52	6.37	2.24	3.71	3.23	8.44	2.52	1.25	5.27	0.32	4.23	47.35
Diamond Springs	5.35	5.59	5.98	1.26	2.80	8.81	11.05	11.58	0.65	4.05	0.70	4.05	61.87
Franklin	6.04	5.19	6.62	2.40	3.65	9.08	13.05	4.39	.....	3.27	0.58	3.89	.....
Fredericksburg (near)	5.08	3.73	5.84	2.66	4.67	4.64	7.01	4.93	1.29	3.24	0.43	3.04	46.56
Guinea Mills	6.20	4.28	6.56	2.63	5.53	1.53	4.72	4.29	1.41	3.30	0.36	4.27	45.17
Hawfield	4.45	3.10	5.86	1.58	7.26	5.30	.....	.....	.....	.....	.....	.....	.....
Hopewell	3.62	4.79	7.26	2.39	2.16	6.13	6.86	6.86	0.55	3.36	0.63	2.85	47.46
Hot Springs	2.82	3.75	4.77	2.81	4.89	4.29	5.49	2.96	0.84	2.20	0.46	5.40	40.68
Ivanhoe	2.52	3.11	3.98	2.91	4.73	5.19	4.80	2.78	1.53	3.46	0.73	2.93	38.67
Langley Field	.....	5.70	5.88	1.83	2.73	9.55	9.73	4.87	0.36	2.35	0.91	.....	.....
Lawrenceville	5.87	4.45	6.15	2.60	4.02	1.01	3.98	2.85	0.15	4.56	0.28	2.47	38.39
Leeds Manor	3.03	2.84	3.90	2.10	7.09	.....	4.05	2.10	1.68	2.65	0.55	3.01	.....
Lexington	2.97	4.06	6.10	2.14	4.73	4.58	3.68	2.58	1.00	2.99	0.35	3.78	38.96
Lincoln	3.17	3.07	3.83	1.38	5.51	4.31	3.69	2.72	1.55	2.37	0.56	4.73	36.89
Lynchburg	3.90	3.32	7.50	1.53	4.37	3.37	2.25	1.18	1.42	4.19	0.19	3.42	36.64
Manassas	5.49	3.45	4.16	0.82	4.85	4.56	2.20	3.30	3.52	2.23	0.67	3.81	39.06
Marion	.....	.....	.....	4.58	4.69	2.41	5.00	2.94	0.88	3.22	1.47	5.63	.....
Mayhurst	4.23	3.79	4.98	1.89	3.03	4.28	3.45	5.45	0.50	1.71	0.07	3.88	37.26
Mendota	4.88	4.31	7.14	5.71	5.31	3.17	6.49	2.89	1.34	2.76	1.45	8.28	53.73
Mineral (near)	4.29	3.45	5.76	1.98	3.69	4.84	6.02	5.40	0.35	2.76	0.32	3.95	42.81
Mount Moriah Farm	4.44	2.11	4.86	1.56	3.17	4.57	7.04	6.50	1.55	2.92	0.43	4.26	43.41
Mount Weather	3.19	2.34	3.14	1.79	4.95	5.74	7.92	4.77	.....	2.97	0.25	2.94	.....
Narrows	4.04	3.89	3.39	3.51	4.32	3.84	6.75	2.68	1.32	0.48	0.97	6.06	41.25
New Canton	5.39	3.89	6.66	2.00	3.38	2.73	7.36	5.38	0.78	2.50	0.34	4.50	44.91
Newport News	4.48	5.98	6.22	2.78	2.62	7.95	16.25	6.08	0.31	4.28	0.88	4.03	61.86
Norfolk	3.49	4.85	4.95	1.88	3.42	9.78	11.92	8.04	0.53	2.75	0.44	2.93	54.98
Onley	4.15	5.70	6.15	2.65	2.33	5.48	9.37	7.90	2.50	2.70	0.70	5.64	55.27
Pulaski	2.25	3.33	5.45	2.09	4.88	4.85	10.08	2.62	1.10	4.67	0.46	3.86	45.64
Quantico	.....	.....	3.64	1.52	2.64	3.54	5.46	3.49	2.00	2.12	0.38	3.39	.....
Radford	2.34	3.93	5.10	1.53	3.73	4.37	7.04	3.06	1.21	2.85	0.56	4.45	40.17
Randolph	6.04	4.10	5.48	2.10	6.79	3.63	8.72	6.48	0.00	3.68	0.29	3.20	50.51
Richmond	4.58	3.81	7.01	2.01	3.27	6.42	8.48	7.78	0.66	3.68	0.86	3.14	51.70
Roanoke	3.20	4.18	4.57	1.01	4.14	3.27	4.26	3.48	0.32	3.51	0.23	3.84	36.01
Rocky Mount	3.96	3.52	6.19	1.85	5.89	6.32	6.05	5.81	1.35	4.78	0.42	3.10	49.24
Runnymede (near)	5.26	6.70	6.98	3.18	3.53	6.92	10.10	5.26	0.28	6.31	0.15	3.42	58.09
Speers Ferry	4.75	3.33	4.35	4.40	2.45	3.60	2.95	2.80	1.75	0.80	1.00	5.30	37.48
Staunton	2.40	4.04	4.62	1.38	3.65	2.10	6.04	4.22	0.24	3.17	0.19	3.01	35.06
Warsaw	3.65	4.80	5.90	1.82	2.60	9.28	7.46	5.00	2.30	.....	0.48	4.79	.....
West Point	3.86	2.69	7.16	2.36	.....	10.08	.....	5.49	0.24	3.70	1.62	.....	.....
Williamsburg	4.25	5.82	6.05	3.10	3.19	9.11	10.27	4.32	0.25	3.84	0.80	3.90	54.90
Winchester	1.83	1.86	1.87	1.30	3.63	4.74	3.89	1.63	1.58	2.45	0.25	2.83	27.86
Wise	.....	6.27	7.29	.....	.....	.....	4.97	3.88	1.23	2.00	1.19	7.76	.....
Woodstock	2.90	3.15	2.27	1.38	3.69	2.29	4.99	2.57	0.64	1.86	10.42	2.50	27.76
Wytheville	2.96	3.12	4.74	2.51	4.53	7.00	4.07	2.52	0.74	4.61	0.86	3.85	41.51
Virgin Islands.													
St. Croix:													
Annally	2.86	4.91	3.53	1.37	1.64	2.97	2.74	3.24	6.01	9.58	0.93	3.66	43.44
Bonne Esperance	.....	4.01	2.09	0.68	0.71	3.12	1.86	3.02	4.49	3.45	1.36	3.20	.....
Christiansted	1.69	2.55	1.95	0.45	0.49	3.00	1.44	2.21	4.83	3.91	0.72	3.57	26.81
Cotton Grove	3.36	3.81	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.60	.....
Experiment Station	2.99	3.12	2.32	0.68	0.74	2.85	1.69	2.75	5.61	3.31	1.65	3.87	31.58
Frederiksted	2.95	2.44	2.56	0.22	0.78	2.92	1.43	2.38	3.96	4.67	1.87	3.10	29.28
King's Hill	2.70	2.52	2.54	0.40	0.69	2.12	1.58	2.18	4.14	1.20	1.60	4.12	25.79

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Virgin Islands—Continued.													
St. John:													
American Hill	5.42	2.69	1.40	2.18	1.11	4.83	2.63	5.38	2.40				
Cruz Bay	3.86	2.80	1.83	1.62	1.00	4.48	3.36	3.41	2.71	6.81	1.27	4.36	37.51
St. Thomas:													
Anna's Retreat	3.63	2.62	2.51	1.01	0.35	3.34	2.00	2.72	3.52	4.88	0.85	5.04	32.47
Charlotte Amalie	3.71	2.68	1.97	2.08	1.03	4.59	2.11	3.43	5.02	3.21	1.67	5.49	36.99
Camaan	3.10	2.44	1.71	1.77	1.04	3.22	2.03	2.93	4.55	2.71	1.25	5.11	31.86
Washington.													
Aberdeen	4.86	6.17	9.85	5.51	3.95	0.57	0.00	2.24	4.43	6.86	3.43	14.94	62.81
Anacortes	1.45	1.43	2.44	2.34	0.96	0.04	0.00	2.42	2.33	2.92	2.09	3.48	21.90
Anatone	2.30	1.70	3.00	2.20	0.52	1.41	0.05	3.69	0.31	1.32	1.12	2.85	20.47
Arlington												8.03	
Attalia	0.76	0.04	1.02	0.26	0.05	0.00	0.00	0.25	0.25	0.46	0.68	0.97	4.74
Bellingham	2.17	2.49	3.11	3.70	2.22	0.05	0.00	1.73	2.93	3.66	1.90	5.83	29.82
Blaine	2.99	2.34	3.12	1.82	1.87	T.	0.00	1.18	3.85	2.72	2.19	6.92	29.00
Bremerton	1.66	2.14	4.10	1.30	1.14	0.12	0.00	1.44	1.07	2.47	1.20	8.70	25.34
Brewster	0.42	0.58	1.29	0.29	0.18	0.04	0.00	0.65	0.37	0.89	0.70	1.97	7.38
Buckley	2.90	3.32	4.54	4.09	3.32	0.51	0.00	1.98	2.85	5.65	2.16	6.64	37.96
Bumping Lake	2.76	2.57	5.20	1.43	0.74	T.	0.00	0.93	1.76	3.92	2.00	13.50	34.81
Camp Lewis	3.46	2.28	4.28	2.77	2.99	T.	0.00	1.35	2.03	4.25	1.82	8.59	33.82
Carbonado				2.80	2.72	0.91	0.00	1.64	2.93	5.99	2.20	7.00	
Castle Rock	4.74	4.05	9.07	4.83	2.78	0.28	0.00	2.74	3.87	5.11	2.57	12.89	52.93
Cedar Lake	8.30	7.40	12.45	10.70	8.45	0.40	0.00	4.45	5.85	11.20	5.55	18.00	92.75
Centralia	3.35	2.98	5.67	2.75	3.07	T.	0.00	1.64	3.20				
Clearbrook	2.80	1.96	3.99	3.80	2.94	0.04	0.00	2.96	4.62	6.65	2.69	9.90	42.35
Cle Elum	1.70	1.51	1.59	0.66	0.36	0.17	0.00	0.23	0.93	1.76	1.29	8.42	18.62
Colfax	0.94		1.78		0.20	0.33	0.00	1.74	0.49	1.01	0.24	1.23	
Colville	1.05	1.13	0.96	2.50	0.32	0.05	0.07	0.68	1.13	0.80	0.33	2.74	11.76
Conconully	0.23	0.75	2.90	1.77	0.67	T.	0.29	3.64	0.90	1.36	0.91	1.60	15.02
Coupeville		1.47	2.19	1.98	0.88	0.16	0.00	0.98	2.41	1.62	0.93	3.44	
Cowiche	0.19	0.23	0.66	0.06	0.25	0.03	0.00	0.13	0.16	0.56	0.36	2.24	4.87
Darrington	7.08	7.16	10.03										
Davenport	1.50	1.05	0.74	1.91	0.20	0.00	T.	0.74	0.60	2.09	0.25	3.45	12.53
Davis Ranch	5.20	5.19	7.86	5.43	3.58	0.23	T.	2.60	6.33	7.72	3.21	14.88	62.23
Dayton	1.52	1.48	1.90	1.75	0.27	0.44	0.04	2.64	0.24	0.58	1.54	2.69	15.09
Deer Park			2.38	2.67	0.48	0.53	0.16	1.16	0.92	1.99	0.63	6.26	
Detroit	2.78	3.84	5.73	1.92	2.51	0.00	0.00	2.81	2.27	4.59	1.16	11.33	38.94
Dirtyface Mountain	2.28	2.69	3.11	0.75	0.53	T.	0.00	0.70	1.23	3.04	2.52	7.96	24.81
Dryden	0.89	1.50	1.41	0.54	0.03	0.10	0.00	0.10	0.19	1.64	1.37	4.67	12.44
Ellensburg	0.36	0.30	0.60	0.05	0.39	T.	0.00	0.50	0.51	0.98	0.46	2.40	6.55
Ephrata	0.57	1.04	0.76	0.43	0.02	0.01	T.	0.21	0.39	1.22	0.54	2.08	7.27
Everett	3.09	2.66	4.43	2.49	1.97	0.02	0.00	1.58	1.37	3.86	2.15	6.24	29.86
Fairfax							0.00			5.60	2.96		
Forks	9.02	10.38	8.55	8.34	5.49	0.55	0.00	2.59	8.08	8.69	5.56	14.53	81.78
Fort Simcoe					0.00	0.00	0.00				0.37		
Glacier		1.80	3.95	1.50				2.80					
Glenoma	4.39	3.64	5.77	4.86	3.64	0.64	0.00	3.25				8.20	
Gold Creek	0.88	1.17	1.35	0.12	0.00	T.							
Goldendale	1.04	1.07	1.18	0.64	0.01	0.18	T.	1.11	0.42	1.37	0.70	4.76	12.48
Granger (near)	0.14	0.29	1.04	0.05	0.00					1.34	0.37	1.11	
Hanford	0.37	0.45	0.26	0.14	T.	0.65	0.00	0.23	0.26	0.72	0.28	1.03	4.39
Harrington	1.00		1.18	1.53	0.15	0.00	0.00	0.26	0.12	1.36	0.35	2.80	
Hatton	0.73	0.52	1.21	0.67	0.06		0.00	0.19	0.14	0.58	0.67	1.44	
Headworks	3.75	3.68	6.33	3.34	2.33	0.32	0.00	1.59	1.89	3.98	1.67	8.48	37.36
Irene Mountain	0.72	0.94	0.41	1.67	0.63	0.00	0.53	1.87	0.61	1.95	0.41	1.06	10.80
Kahlotus	0.66	0.74	1.10	0.77	0.05	0.14	0.00	0.30	0.22	0.63	0.76	1.28	6.65
Kalama (near)	6.55	5.69	11.78	6.30	3.66	0.75	0.00	3.18	4.07	5.48	2.72	13.03	63.21
Kennewick	0.43	0.38	1.08	0.15	0.05	0.11	0.00	0.35	0.02	0.62	0.65	1.71	5.55
Kent	2.53	1.96	3.36	2.25	1.66	0.15	0.00	0.80	1.45	4.03	1.45		
Kettle Falls	1.16	0.97	1.46	1.83	0.47	0.07	0.05	0.79	0.82	1.24	0.26	3.37	12.49
Keyport	1.91	3.12	4.92	3.43	0.26	0.02	0.00	1.10	0.64	1.92	1.12	8.56	27.00
Kiona	0.39	0.67	1.30	0.59	0.10	0.59	0.00	0.10	0.22	0.79	0.74	0.94	6.43
La Center	3.38	4.57	6.48	3.45	1.57	0.22	0.00	2.68	2.49	5.18	2.25	10.89	43.16
La Crosse	1.50	0.55	0.74	0.93	0.11	0.42	0.00	0.91	0.00	0.77	1.10	2.47	9.50
Lake Cle Elum	1.90	1.67	2.59	1.10	1.30	T.	0.00	0.44	1.47	2.38	2.32	8.26	23.43
Lake Kachess	3.31	2.02	4.07	2.33	2.19	0.12	0.00	0.85	2.06	3.51	3.18	10.48	34.12
Lake Keechelus	4.29	3.94	6.52	3.60	3.44	T.	0.00	0.91	2.53	2.04	3.75	12.88	43.90
Lakeside	0.25	0.08	1.17		0.07	0.00	0.00	0.40	0.46	0.52			
Landsburg	3.71	4.06	6.33	6.27	3.73	0.05	0.00	2.35	3.03	5.71	2.20	9.93	47.37
Laurier	1.24	1.29	1.40	2.48	0.59	0.68	0.25	2.21	1.16	1.71	0.32	2.06	15.39
Leavenworth	0.70	1.27	1.62	0.71	T.	0.10	0.00	0.20	0.52	1.54	2.08	5.52	14.26
Lind	0.62	0.34	0.88	0.65	0.06	0.58	0.07	0.31	0.14	0.83	0.52	1.74	6.74
Locke	2.35	2.34	2.55	2.70	0.69	0.23	0.61	1.44				4.59	
Long Beach						0.47	0.09						
Longmires Springs	6.65	6.55	6.65	7.11	4.29	0.33	0.00	3.38	4.52	7.21	3.59	15.40	65.68
Lost Creek	0.51	1.33	1.27	1.14	0.54	0.05	0.44	1.50	0.30	1.96	0.32	1.50	10.86
Lowden (near)	1.60	0.84	0.74	0.35	0.04	0.82	T.	0.80	0.03	0.52	0.60	1.43	7.77
Mansfield								1.44	0.66	1.22	0.84	2.27	
Marietta	2.07	1.93	2.67	2.88	1.39	0.04	0.00	1.54	2.53	3.36	2.23	6.21	26.85
Maryhill	0.83	1.09	1.50	0.50		0.15	0.00						
McCumbers Ranch	2.15	0.30	1.21	0.85	0.20	0.00	0.00						
Mill Creek	2.46	3.11	5.19	4.05	1.62	1.50	0.35	1.93	0.89	2.63	3.13	5.74	32.30
Mottinger	0.68	0.13	1.63	0.59	0.15	0.38	0.00	0.50	0.25	0.27	0.58	1.18	6.34
Moxee	0.27	0.23	0.82	0.04	0.10	0.05	0.00	0.66	0.37	1.10	0.22	0.98	4.84
Nespelem	0.82	1.13	0.50	1.45	0.22	T.	0.00	0.78	0.38	2.45	0.38	1.40	9.51
North Head	3.43	3.54	7.45	3.88	2.54	0.35	0.03	2.76	3.24	5.72	3.54	8.60	45.08
Northport	1.76	1.39	1.89	2.41	0.26	0.06	0.02						
Oakville	3.53	4.78	6.84	3.48	2.11	0.05	0.00	2.29	2.58	5.37	2.02	11.40	44.45
Odessa	1.04	0.58	1.17	0.82	0.10	0.07	0.01	0.25	0.23	1.27	0.48	2.28	8.30
Olga	1.91	1.68	2.38	2.02	1.17	0.02	0.00	1.15	2.60	3.34	1.88	5.70	23.85
Olympia		3.28	5.53	2.33	2.55	T.	0.00		1.51	5.19	1.36		
Omak	0.52	0.63	1.56	0.94	0.15	T.	T.	1.88	0.37	1.73	0.43	1.42	9.63
Oroville	0.38	0.49	2.06	1.74	0.77	T.	0.00	1.47	0.49	1.59	0.63		

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Washington—Continued.													
Paradise Inn	12.65	8.00	16.00	8.40	4.70	0.50	T.	4.35	4.00	10.50	5.60	28.90	103.60
Peola	1.57	2.64	2.56	1.83	0.76	0.78	0.19	2.47	0.47	0.52	1.45	2.78	18.02
Pomeroy	1.30	0.35	.....	1.56	.....	0.17	0.25	0.75	0.25	0.15	1.47	0.79	.....
Port Angeles	1.59	2.11	2.26	0.91	0.34	0.19	0.00	0.48	1.38	1.67	1.56	7.73	20.22
Port Townsend	0.73	1.42	1.59	1.32	0.57	0.21	0.00	1.08	1.42	1.05	0.96	5.26	15.61
Prosser	0.23	0.52	0.65	0.42	0.04	0.39	0.00	0.35	0.19	0.99	0.60	1.48	5.86
Pullman	2.69	1.57	2.16	1.43	0.22	0.08	T.	1.49	0.52	0.72	0.89	3.19	14.96
Puyallup	2.64	2.94	4.67	2.44	2.35	T.	0.00	1.85	1.74	4.56	1.59	6.85	31.63
Quilcene	1.29	4.57	5.63	2.96	1.30	0.54	0.03	1.17	1.34	1.86	1.71	8.61	31.01
Quiniault	.....	8.81	13.03	5.12	0.40	0.09	T.	4.59	7.25	10.61	6.34	22.94	.....
Republic	0.85	1.16	1.06	1.00	0.38	0.03	T.	1.48	0.58	1.90	0.34	1.92	10.70
Rimrock	2.59	1.26	1.78	0.56	1.34	0.03	0.00	0.47	0.41	1.38	0.68	7.72	18.22
Ritzville	0.50	0.63	1.06	0.93	0.05	0.06	0.00	0.28	0.14	0.84	0.47	2.02	6.98
Rock Island	0.39	0.67	0.90	0.40	0.34	0.00	0.00	0.22	0.20	1.30	0.87	1.84	7.13
Rosalia	1.70	0.93	2.02	1.80	0.24	0.13	0.00	0.80	0.51	1.00	0.98	2.78	12.79
Seattle	1.89	1.74	4.45	2.53	1.08	0.03	0.00	1.17	1.19	2.37	1.45	7.37	25.27
Sedro Woolley	3.84	2.80	4.33	4.58	2.55	0.13	0.00	3.34	6.19	4.49	3.32	6.39	41.96
Sequim	1.07	0.75	1.67	.....	.....	.....	0.00	1.01	1.34	1.22	0.85	5.42	.....
Silverton	.....	.....	.....	.....	.....	.....	0.00	5.29	7.34	10.10	4.39	17.08	.....
Sixprong	0.54	0.75	0.61	0.57	0.06	T.	0.00	0.31	0.17	1.23	0.38	1.70	6.32
Snoqualmie Falls	4.02	4.63	6.64	4.98	3.99	0.06	0.00	2.64	3.12	6.73	2.73	10.05	49.59
Snoqualmie Pass	6.43	7.75	9.79	4.88	4.30	0.10	0.00	2.65	5.25	6.93	4.36	15.00	67.44
Snyders Ranch	0.61	1.05	1.83	0.20	0.25	0.00	0.15	2.35	0.68	0.92	1.34	3.58	13.36
South Bend	7.16	6.33	13.64	7.93	5.26	0.51	0.05	4.08	5.33	7.33	3.47	18.96	80.05
Spokane	1.19	1.04	1.40	1.44	0.16	0.02	0.03	0.65	0.64	0.83	0.30	3.81	11.51
State University	1.90	1.72	7.27	2.49	0.93	0.04	0.00	1.68	1.00	2.16	1.86	6.57	27.62
Stehekin	2.00	2.63	3.72	0.20	0.21	0.03	0.01	1.64	0.70	2.28	1.93	8.46	23.81
Stokes Ranch	0.32	0.85	2.27	0.04	0.20	0.12	0.03	2.15	0.62	0.97	1.06	2.71	11.34
Sunnyside	0.17	0.69	0.88	0.23	0.09	0.18	T.	0.22	0.16	1.16	0.36	0.71	4.85
Tacoma	1.72	2.00	3.40	1.63	1.48	0.02	T.	1.52	1.65	3.84	1.48	7.22	25.96
Tatoosh Island	4.68	6.56	8.11	3.51	5.19	0.11	0.02	2.54	7.23	5.76	4.85	11.78	60.34
Tieton Canyon	1.10	0.45	0.75	0.45	T.	T.	0.00	0.35	0.25	0.55	0.85	5.91	10.66
Timentwa	0.87	1.19	1.27	0.96	0.10	0.20	0.06	2.00	0.60	1.61	0.53	2.12	11.51
Touchet Ridge	2.88	3.14	5.83	4.44	1.10	0.48	0.09	1.89	0.92	1.90	3.14	5.82	31.63
Trinidad	0.20	0.64	0.55	0.16	0.09	0.04	0.00	0.16	0.33	0.93	0.60	1.80	5.50
Vancouver	2.42	3.62	4.56	2.37	1.23	0.12	0.00	3.64	1.89	4.91	2.33	7.88	34.97
Vashon Island	2.53	2.33	2.46	2.56	1.75	T.	0.00	1.68	0.58	3.02	1.47	8.17	26.55
Wahluke	0.64	0.40	0.67	0.53	0.00	0.01	0.00	0.20	0.25	1.05	0.27	2.05	6.07
Wallace	0.54	1.01	4.86	2.19	0.74	0.14	0.34	3.37	0.91	2.18	0.97	2.83	20.08
Walla Walla	1.54	0.97	0.96	1.34	0.46	0.51	0.04	1.25	0.41	0.89	0.95	1.83	11.15
Wapato	0.07	0.29	0.87	0.00	0.20	0.10	0.00	0.69	T.	1.19	.....	.....	.....
Waterville	0.39	0.59	1.14	0.94	0.33	0.00	0.00	0.55	0.64	1.00	1.08	2.08	8.74
Wenatchee	0.76	0.87	0.84	0.47	0.18	0.00	0.00	0.42	0.20	1.66	0.93	3.35	9.68
Wenatchee (near)	0.67	0.97	0.93	0.63	0.14	T.	0.00	0.18	0.62	1.63	1.13	3.05	9.95
Wheeler	0.83	0.43	0.77	0.65	0.01	0.87	0.00	0.27	0.18	1.31	0.69	1.45	7.46
White Salmon	1.35	1.50	3.16	1.20	0.46	0.13	0.00	0.52	0.99	2.26	1.87	6.40	19.84
Wilbur	1.15	0.80	1.15	2.53	0.19	0.18	T.	1.52	0.45	1.80	0.54	3.07	13.38
Wind River	7.17	9.32	15.89	5.55	2.80	0.14	0.00	2.36	2.36	9.22	2.13	21.74	78.68
Winthrop	0.37	0.69	2.08	0.12	0.23	0.04	0.15	1.86	0.64	1.20	1.05	2.68	11.11
Yacolt	7.23	5.78	10.96	7.84	3.78	.....	.....	.....	.....	.....	.....	.....	.....
Yakima	0.23	0.18	0.74	0.03	0.13	T.	0.00	0.18	0.43	0.85	0.11	1.20	4.03
West Virginia.													
Bancroft	2.95	2.89	5.85	2.66	3.40	2.30	3.42	3.59	1.80	2.78	1.18	5.57	38.39
Bayard	4.81	2.47	5.76	3.89	3.28	2.87	4.18	5.76	2.14	1.72	1.30	4.65	42.83
Beckley	2.66	1.34	3.24	2.13	2.87	6.00	6.12	5.37	3.85	3.36	1.37	7.08	45.38
Bens Run	2.61	1.52	7.11	4.43	4.28	3.14	4.23	3.07	2.46	2.57	1.08	3.78	40.28
Bluefield	3.13	4.23	4.52	3.19	2.86	7.38	6.86	1.91	1.03	4.81	0.93	6.39	46.74
Brandywine	1.58	3.60	3.20	1.40	3.75	2.75	3.20	2.95	0.65	2.40	0.45	2.60	28.53
Bruceton Mills	4.38	2.36	6.00	3.24	2.69	5.44	5.17	3.08	1.97	2.86	1.70	5.82	44.71
Buckhannon	3.06	4.41	5.26	3.49	3.53	6.04	5.59	2.05	1.70	2.29	1.34	5.43	44.18
Burlington	2.00	2.70	3.47	1.83	2.65	2.58	1.33	2.27	1.50	1.30	.....	3.66	.....
Camden-on-Gauley	1.01	3.26	2.93	2.21	4.90	3.90	2.67	6.55	2.60	1.00	0.80	5.00	35.77
Cairo	3.33	2.40	6.81	3.79	4.21	5.46	.....	5.20	2.46	3.29	1.14	4.59	.....
Charleston	2.96	2.90	4.93	4.31	3.48	2.84	4.87	6.09	2.40	3.30	1.72	6.87	46.67
Cheat Bridge	4.06	4.96	5.10	3.87	4.96	6.42	8.05	4.69	0.81	1.79	2.34	5.31	52.36
Clay	2.60	2.97	5.29	2.89	3.99	3.45	5.53	2.58	1.32	3.31	1.24	5.01	40.18
Cortland	3.36	3.83	4.62	2.23	2.40	3.53	.....	.....	.....	.....	0.55	4.54	.....
Creston	2.71	3.43	5.82	2.78	4.39	5.35	5.95	7.51	1.52	2.69	1.23	5.25	48.63
Cuba	1.49	.....	6.90	1.15	3.85	4.45	2.95	4.55	.....	.....	.....	.....	.....
Dam No. 10, Monongahela River	2.86	1.95	5.45	2.21	2.64	5.61	5.03	3.94	1.90	2.62	1.28	3.93	39.42
Dam No. 15, Monongahela River	3.27	1.69	4.93	2.84	2.49	4.19	3.79	3.43	3.02	2.57	1.04	2.66	35.92
Dam No. 12, Ohio River	1.83	1.54	5.29	4.47	2.64	5.31	1.89	1.68	3.68	2.06	1.04	2.83	34.26
Dam No. 13, Ohio River	1.73	1.34	5.31	5.41	2.85	4.45	3.83	1.20	4.46	1.78	1.16	2.12	35.64
Dam No. 19, Ohio River	2.40	1.69	6.50	4.39	4.12	3.40	4.96	7.25	2.18	3.37	1.17	4.15	45.58
Dam No. 20, Ohio River	2.62	2.23	6.10	3.38	4.02	4.04	3.60	5.74	2.94	3.83	1.02	4.35	43.87
Dam No. 22, Ohio River	2.18	2.42	5.45	2.20	2.70	5.25	3.90	3.85	1.42	2.66	0.81	4.70	37.54
Dam No. 26, Ohio River	1.46	1.44	7.23	2.75	3.33	2.42	1.16	3.96	2.43	2.19	1.12	4.52	34.01
Davis	4.23	5.57	5.97	3.76	2.88	3.35	6.11	3.50	2.22	2.09	1.84	5.80	47.32
Elizabeth	2.63	2.33	6.47	3.56	5.83	5.82	6.29	6.50	1.73	3.46	1.11	4.83	50.56
Elkins	3.18	4.26	5.32	3.77	3.25	7.40	5.75	2.96	1.31	1.20	1.55	4.53	44.48
Evans	4.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fairmont	2.72	2.65	5.86	3.14	2.52	4.29	4.29	3.94	3.60	2.20	1.70	3.76	40.67
Gary	3.26	4.72	5.65	3.36	4.63	4.85	4.67	2.30	1.77	3.38	1.41	6.10	46.10
Glenville	3.75	3.20	5.62	3.78	4.32	7.95	6.73	5.14	1.65	2.98	1.39	5.51	52.02
Grafton	2.73	1.84	6.03	3.58	2.65	6.55	3.01	4.16	.....	.....	.....	.....	.....
Green Sulphur Springs	3.25	4.35	5.62	3.48	4.58	4.21	5.04	.....	.....	1.03	1.21	6.26	.....
Harpers Ferry	1.98	1.98	3.49	1.06	3.86	4.66	3.07	2.08	2.98	1.98	0.51	2.78	30.43
Hinton	3.34	4.02	5.80	2.52	3.68	6.36	4.40	3.50	1.26	2.36	0.64	5.36	48.24
Huntington	2.16	2.36	6.98	2.62	3.38	2.48	3.91	2.86	2.14	2.30	1.16	6.18	38.53
Kanawha Falls	2.87	1.72	4.04	3.67	3.59	4.01	5.42	4.48	1.12	0.30	0.65	5.87	37.83
Kayford	3.23	3.97	5.43	3.92	4.96	6.09	6.48	4.05	2.09	3.04	1.24	7.27	51.82
Lewisburg	2.69	3.40	5.51	3.23	4.28	4.32	3.01	4.67	1.78	2.74	0.61	6.04	42.28
Logan	.....	.....	.....	4.17	4.82	6.48	.....	.....	.....	.....	.....	.....	.....
Lost Creek	3.08	2.98	5.54	3.58	5.78	7.25	4.80	3.17	2.62	2.64	1.23	5.07	47.14

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
West Virginia—Continued.													
Mannington	2.60	1.79	6.60	3.34	3.94	4.38	4.89	2.84	5.04	2.97	1.27	3.47	48.13
Marlinton	3.28	5.49	6.13	3.33	5.19	4.66	5.34	6.57	0.95	1.67	1.01	6.26	49.88
Martinsburg	1.73	2.21	4.24	1.17	4.11	4.08	5.19	2.31	1.76	2.35	.....	.....	.....
Miller	3.31	3.50	4.67	3.97	4.43	4.70	7.01	6.42	2.29	2.24	1.00	.....	.....
Moorefield	2.00	3.82	3.29	1.20	.....	.....	.....	.....	.....	.....	0.17	.....	.....
Morgantown	1.54	0.94	2.51	1.42	1.80	5.17	4.37	4.37	0.87	2.21	0.81	2.34	28.35
Moundsville	.....	2.15	5.30	4.42	3.11	4.51	.....	1.59	5.64	2.40	0.65	1.70	.....
New Cumberland	1.60	1.94	3.39	3.84	3.33	2.97	1.84	2.02	2.50	1.94	1.37	2.13	28.87
New Martinsville	1.55	1.81	7.12	2.80	3.80	6.33	3.30	2.92	2.80	2.27	1.15	3.15	39.00
Organ Cave	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.58	.....
Parkersburg	1.91	1.57	6.06	3.81	4.09	5.06	3.65	7.44	3.73	2.73	0.97	4.13	45.15
Parsons	3.45	3.79	5.67	3.47	2.56	5.99	4.90	3.40	2.50	1.85	1.57	4.85	44.00
Philippi	3.20	3.05	5.61	3.25	4.33	6.94	5.68	2.73	3.03	1.76	1.52	4.46	45.56
Pickens	4.68	5.04	8.19	6.76	5.19	7.42	6.62	4.75	2.15	2.28	2.49	7.14	62.71
Piedmont	2.04	2.37	3.60	1.95	3.23	1.88	1.66	2.02	1.06	3.45	0.38	4.55	28.19
Point Pleasant	2.27	2.89	6.97	2.88	5.49	2.68	3.06	3.90	4.07	2.94	1.00	4.82	42.97
Powellton	.....	1.14	4.85	3.77	5.15	4.84	6.64	4.75	2.11	2.94	.....	3.61	.....
Raleigh	2.95	4.61	5.52	3.54	4.63	6.00	6.56	4.49	1.20	3.90	1.26	6.60	51.26
Renick	3.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Robertsburg	2.49	2.95	6.68	2.38	3.44	2.57	3.89	5.56	1.46	2.26	0.98	5.35	40.01
Romney	2.97	1.97	3.95	1.88	3.66	3.23	2.67	1.87	1.03	1.55	0.45	.....	.....
Rowlesburg	3.49	3.39	6.56	4.80	2.67	4.00	5.60	2.96	0.41	2.11	1.73	4.41	42.13
Ryan	3.24	2.64	5.62	2.36	1.65	2.55	4.13	4.32	1.37	3.01	1.11	5.45	37.45
St. Marys	2.54	2.11	5.44	5.55	2.13	6.01	3.29	3.86	3.41	3.04	0.97	4.26	42.61
Sharples	2.68	4.37	5.88	.....	.....	.....	.....	.....	0.67	1.82	0.58	5.23	.....
Smithfield	3.41	2.30	6.36	4.11	5.01	6.34	6.21	4.76	3.94	3.37	1.47	3.45	50.73
Spencer	3.01	2.67	5.37	3.32	3.22	5.86	5.81	5.04	1.00	2.89	1.58	5.44	45.21
Stony River Dam	3.57	3.49	3.88	3.63	2.82	3.67	4.43	3.71	1.89	2.19	1.24	5.19	39.71
Sutton	2.92	2.52	4.90	3.62	4.95	6.53	4.73	5.39	0.89	1.71	1.39	6.83	46.18
Terra Alta	.....	3.76	.....	.....	.....	.....	.....	.....	.....	.....	1.81	5.27	.....
Union	3.21	3.92	4.07	2.81	3.56	2.16	3.38	2.62	1.97	2.46	1.19	4.89	36.24
Upper Tract	1.39	2.03	1.40	0.50	1.55	1.75	4.35	2.43	0.10	2.35	0.20	1.16	19.21
Wardensville	.....	.....	.....	1.77	.....	.....	.....	.....	.....	.....	0.28	1.03	.....
Wellsburg	1.74	1.39	4.22	2.94	3.64	4.71	2.20	3.42	2.50	2.36	1.93	1.67	32.72
Weston	3.61	3.78	4.97	2.83	3.22	7.13	4.95	2.41	1.08	2.75	0.75	5.55	43.03
Wheeling	2.03	1.54	5.06	4.77	3.04	4.16	2.29	1.64	3.94	2.46	1.09	2.81	34.82
White Sulphur Springs	1.64	2.09	3.65	1.53	3.34	4.88	4.16	2.59	1.78	1.76	0.52	6.52	34.46
Williamson	2.81	4.85	5.66	2.85	5.54	3.01	6.82	4.62	2.02	2.41	1.20	7.05	48.84
Wisconsin.													
Amery	1.75	3.57	2.35	1.41	3.36	7.22	1.39	2.74	3.47	0.95	4.15	0.18	32.54
Antigo	0.67	2.40	1.95	3.94	2.54	3.84	5.23	2.39	3.95	0.42	2.25	0.25	29.83
Ashland	0.89	2.95	2.09	2.84	2.22	3.85	2.82	1.98	1.76	0.65	3.11	1.21	26.37
Baraboo	.....	4.15	2.95	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Beloit	1.24	1.93	3.55	2.86	7.55	0.38	4.32	0.72	3.26	0.24	2.94	1.26	30.25
Big St. Germain Dam	0.08	2.80	1.00	2.50	3.90	5.90	3.80	2.85	4.55	1.15	2.95	0.80	33.00
Break Water	.....	.....	.....	.....	.....	.....	.....	.....	2.16	1.19	2.00	0.78	.....
Brodhead	0.90	1.48	3.25	4.62	3.96	0.63	4.54	0.98	4.40	0.68	2.90	1.62	29.96
Brule Island	.....	.....	.....	.....	.....	.....	.....	.....	3.09	0.89	1.76	1.45	.....
Burnett	0.44	2.91	1.33	3.23	2.75	3.45	3.29	1.52	3.40	1.03	2.33	0.48	16.16
Cecil	0.72	1.42	1.37	4.30	.....	.....	.....	.....	.....	0.69	3.35	0.71	.....
Coddington	0.10	3.58	1.93	3.30	3.27	4.53	4.70	1.76	1.77	0.79	3.80	0.58	30.11
Cornucopia	0.76	2.95	2.39	3.61	3.83	4.45	1.43	2.04	2.39	0.82	2.91	1.37	28.93
Danbury	1.20	1.04	1.10	1.17	2.47	5.59	3.55	0.72	3.40	0.86	3.12	0.10	23.82
Darlington	0.84	2.67	1.88	3.24	4.42	0.75	4.09	1.00	2.64	0.76	4.70	1.46	28.45
Deerskin Dam	0.64	1.95	1.38	2.56	4.06	6.04	4.00	2.65	5.08	0.88	2.53	0.84	32.61
Delavan	0.89	1.66	2.93	2.53	3.99	0.54	3.29	.....	.....	.....	.....	.....	.....
Downing	1.40	2.40	0.10	1.43	4.25	4.62	6.01	2.07	2.20	1.10	4.52	0.16	30.26
Eau Claire	1.26	3.10	1.68	4.08	3.89	5.85	3.40	2.04	2.22	1.00	3.87	0.30	32.69
Florence	0.70	3.49	.....	4.39	3.59	5.61	3.97	2.20	4.49	0.82	3.82	1.52	.....
Fond du Lac	0.52	2.51	0.95	3.49	3.36	4.01	2.93	2.53	5.42	1.29	2.61	0.97	30.59
Grand River Locks	0.63	2.78	2.03	3.91	4.37	3.43	4.03	1.35	3.32	0.45	4.65	0.67	31.62
Grantsburg	0.90	2.25	0.70	2.12	2.07	5.12	2.00	1.19	3.01	0.64	3.23	0.12	23.35
Green Bay	0.88	4.54	1.74	4.62	1.79	4.88	5.88	4.10	2.74	0.47	2.25	0.59	34.48
Hancock	0.24	3.95	3.28	4.62	3.60	5.10	2.85	1.49	2.40	0.56	3.99	0.74	32.82
Hatfield	0.55	2.64	1.34	3.84	3.32	5.39	3.02	1.20	3.25	0.53	3.09	0.52	28.69
Hayward	.....	.....	.....	2.10	4.05	4.03	3.34	2.13	1.38	0.59	2.37	0.59	.....
High Falls	1.10	2.52	2.36	4.93	2.96	3.83	6.62	2.74	5.11	0.60	2.74	0.76	36.27
Hillsboro	0.70	4.10	2.15	3.82	3.64	2.62	3.84	1.52	2.26	1.09	3.76	0.60	30.10
Iron River	0.64	3.54	2.59	2.81	3.27	5.91	2.66	3.18	2.14	0.77	2.69	0.64	30.84
Kilbourn	.....	.....	.....	.....	2.24	2.27	3.51	0.35	2.30	0.59	2.70	0.66	.....
Koepenick	0.30	2.60	1.10	3.30	2.80	5.16	4.10	1.60	4.40	1.20	2.04	0.30	28.90
La Crosse	1.25	4.04	1.83	3.86	4.86	3.30	2.08	3.43	2.34	1.24	3.50	0.42	32.15
Lake Mills	0.11	2.97	2.38	3.87	5.53	3.44	5.40	1.40	4.61	0.39	3.04	0.98	34.12
Lancaster	0.48	3.41	3.04	4.15	4.79	0.96	5.43	1.36	1.65	1.27	5.05	0.87	32.46
Long Lake	0.76	2.42	1.27	2.79	2.71	5.97	3.44	2.51	5.31	1.08	2.55	0.91	31.72
Madison	0.63	3.90	2.01	3.39	4.16	3.17	6.09	1.33	2.34	0.65	3.14	1.23	32.04
Manitowoc	0.88	4.56	1.84	2.74	2.30	6.46	4.38	2.09	4.49	1.51	2.32	0.79	34.36
Marinette	0.93	4.20	2.62	5.24	1.47	3.83	4.21	2.61	3.86	0.90	2.21	0.96	33.04
Marshfield	0.80	2.63	1.08	5.62	3.20	6.64	4.68	1.27	3.63	0.76	3.93	0.75	34.99
Mather	1.10	3.71	1.34	4.84	2.92	4.08	3.86	0.64	3.09	0.74	3.58	0.49	30.39
Meadow Valley	1.00	3.78	0.87	4.50	2.91	4.49	4.23	1.01	3.82	0.43	3.50	0.64	31.18
Medford	0.80	2.45	1.15	5.21	4.23	3.61	3.73	1.82	1.87	2.02	3.22	0.45	30.56
Menasha	0.69	4.94	1.64	3.97	2.15	7.49	4.40	2.02	2.68	1.18	3.20	0.67	35.03
Merrill	0.68	3.89	0.80	3.65	2.99	2.73	4.57	1.36	5.62	1.13	2.76	0.90	31.08
Milwaukee	0.92	1.45	1.83	2.38	2.36	2.48	2.49	1.71	4.63	1.62	2.47	1.30	25.64
Minocqua	0.56	2.06	1.31	1.94	3.95	5.56	3.67	3.15	5.01	1.32	3.52	0.46	32.51
Mondovi	0.90	3.57	2.83	3.84	5.94	7.61	5.67	1.85	4.00	2.13	2.50	0.30	41.14
Neillsville	0.83	3.54	1.64	4.23	4.52	7.81	3.51	1.74	4.62	0.54	3.35	0.68	37.01
New London	1.16	4.15	3.05	5.52	2.39	10.11	7.68	2.62	3.25	0.30	3.25	0.54	44.02
Oconto	0.79	2.26	1.55	4.81	.....	2.99	5.23	2.82	3.39	0.64	2.28	1.44	.....
Oshkosh	0.55	.....	2.11	4.43	2.82	6.48	4.70	3.09	3.19	0.69	3.09	0.65	.....
Park Falls	1.82	3.90	2.40	4.08	5.07	5.97	2.70	2.50	4.01	1.33	4.79	1.64	40.81
Pine River	1.11	5.27	2.91	4.89	3.81	5.68	3.99	4.52	4.63	0.36	2.73	0.56	40.46
Plum Island	0.80	3.57	0.50	2.35	3.21	3.14	2.54	1.70	2.12	1.68	2.95	1.67	26.23

Monthly and annual precipitation (in inches and hundredths) for 1922—**Continued.**

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Wisconsin—Continued.													
Plymouth	0.61	4.31	2.16	3.00	2.01	3.42	3.60	1.74	4.87	1.88	2.66	0.71	30.97
Portage	0.68	3.43	2.77	5.48	4.08	3.98	4.81	0.97	2.08	1.12	3.76	0.80	33.96
Port Washington	0.54	3.94	1.76	3.62	3.00	2.98	2.84	2.19	5.53	1.44	2.71	0.75	31.60
Prairie du Chien	0.62	1.62	1.32	2.91	3.74	1.70	5.84	1.54	2.04	1.74	4.60	0.22	27.89
Prairie du Sac	0.17	4.11	2.33	3.18	3.72	3.37	4.61	1.24	2.77	0.94	3.48	0.25	30.17
Prentice	0.36	1.84	1.07	3.19	3.53	3.34	5.54	1.32	6.33	1.87	3.09	0.68	32.16
Racine	0.95	2.46	3.44	2.03	2.22	0.73	3.32	2.85	3.68	2.13	2.84	1.08	27.73
Rest Lake	.....	.....	0.62	2.44	4.05	5.81	2.69	2.29	6.96	1.47	3.93	0.99	.....
Rhinelander	0.57	2.94	0.82	2.17	2.65	3.46	4.20	1.42	4.04	1.58	2.24	0.77	26.86
Richland Center	0.60	3.47	0.80	3.80	2.70	2.47	4.13	1.11	2.26	1.27	2.96	0.73	26.30
Ripon	0.69	2.53	2.38	5.03	4.76	5.31	3.94	7.32	5.17	0.71	2.56	0.58	40.98
River Falls	0.80	3.07	2.08	2.91	6.06	5.52	2.11	2.20	2.80	1.22	4.14	0.16	33.07
Sheboygan	0.46	3.73	1.73	2.73	1.92	.....	3.55	2.05	4.86	1.79	2.12	1.27	.....
Solon Springs	0.60	3.15	0.90	2.00	3.30	4.35	3.85	1.85	1.45	1.55	2.60	0.39	25.99
Spooner	0.84	3.13	2.87	2.33	3.68	6.02	1.58	1.07	2.00	0.60	3.24	0.51	27.87
Stanley	1.40	2.35	0.64	4.17	4.72	6.39	2.65	1.84	2.86	1.39	4.12	0.25	32.78
Stevens Point	1.87	5.08	3.82	4.75	3.02	7.06	4.09	1.72	2.10	0.84	4.28	0.53	39.16
Sturgeon Bay	0.76	4.10	1.51	4.58	2.12	4.28	3.81	3.12	5.02	0.94	2.34	0.99	33.57
Superior	0.34	2.71	1.92	2.87	4.03	2.99	4.12	2.13	2.87	0.59	2.62	1.07	28.26
Tomahawk	0.65	2.94	1.21	3.12	3.11	3.22	5.01	2.26	4.71	1.30	2.31	0.61	30.45
Viroqua	1.20	4.32	.....	3.86	3.43	2.56	3.47	2.12	2.54	1.02	4.59	0.22	.....
Watertown	0.48	3.53	3.45	4.03	3.18	2.34	4.01	1.97	5.13	1.05	2.66	1.61	33.44
Waukesha	0.22	2.37	.....	2.96	3.80	2.64	2.54	2.73	4.79	1.53	2.54	1.26	.....
Waupaca	0.97	4.36	2.47	5.07	3.70	5.86	4.37	3.27	2.63	0.33	3.46	0.44	36.93
Wausau	0.77	2.79	1.43	3.71	2.61	4.87	3.49	2.74	2.86	0.54	2.10	0.56	28.47
West Bend	.....	.....	.....	.....	.....	.....	.....	1.21	3.39	0.98	2.93	0.65	.....
Weyerhauser	0.77	3.17	1.88	2.77	5.15	6.53	1.96	0.93	4.05	1.08	4.96	0.31	32.56
Whitehall	1.10	2.70	2.38	2.60	5.22	4.70	3.32	1.56	3.56	0.97	3.29	0.75	32.15
Williams Bay	1.33	1.42	2.88	1.67	2.22	0.36	2.48	1.91	2.64	1.21	2.91	1.17	22.20
Winter	0.88	.....	2.41	2.30	5.09	5.92	2.80	1.20	3.36	0.80	2.82	0.33	.....
Wisconsin Rapids	0.87	4.04	2.15	5.22	3.05	5.63	4.54	1.65	4.22	0.86	3.58	0.76	36.57
Wyoming.													
Afton (near)	0.33	1.55	0.24	1.17	2.60	0.84	0.83	3.62	0.27	0.80	1.34	2.36	15.95
Alta	1.27	1.70	1.04	0.89	1.62	1.72	1.27	3.60	0.91	0.77	1.34	2.24	18.37
Archer	.....	0.28	0.20	2.33	1.75	2.70	1.81	2.35	0.14	0.06	2.23	0.43	.....
Barnum	0.75	0.13	0.73	3.83	2.82	0.33	2.53	0.54	.....	.....	.....	.....	.....
Basin	0.98	0.78	0.08	0.95	0.71	0.11	0.47	0.42	0.10	0.58	0.66	0.67	6.51
Bedford	1.72	2.19	0.66	1.49	1.80	0.72	0.96	3.75	.....	.....	0.71	2.13	.....
Big Creek	0.86	1.98	1.32	1.57	1.10	0.98	0.35	1.72	.....	0.33	0.75	2.25	.....
Border	0.56	3.10	1.04	1.13	0.20	0.25	1.00	1.34	0.36	0.68	1.19	1.50	12.35
Bow Ranger Station	1.18	2.25	1.22	0.90	3.59	0.34	1.05	1.03	0.80	2.15	0.87	1.86	17.24
Buffalo	1.13	0.10	T.	3.10	3.29	1.08	3.70	1.38	.....	.....	.....	0.25	.....
Casper	0.98	0.64	0.76	4.32	3.83	0.21	0.84	0.97	0.24	2.23	1.53	1.18	17.73
Centennial	0.45	0.95	0.69	1.43	1.53	0.45	0.88	1.31	0.26	0.59	0.60	1.56	10.64
Cheyenne	0.47	0.85	0.33	3.23	2.00	0.90	2.01	2.16	0.36	0.23	2.40	0.44	15.38
Chugwater	0.35	0.40	0.50	3.11	3.77	1.35	0.90	1.16	0.21	0.50	1.97	0.89	15.11
Clark	0.29	0.26	0.03	0.82	1.20	1.42	1.88	0.99	0.35	0.41	1.05	0.83	9.53
Clearmont	0.51	0.06	0.32	1.11	3.42	.....	.....	1.27	0.17	.....	.....	.....	.....
Cody	0.46	0.20	0.21	1.79	0.74	1.18	1.70	1.00	0.20	0.89	0.94	1.02	10.33
Cokeville	.....	1.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Colony	1.16	0.97	0.89	3.55	4.77	4.93	4.06	0.77	0.16	1.03	1.91	0.46	24.66
Crandall Creek	0.71	2.08	0.59	0.67	1.11	0.64	0.56	1.45	0.35	0.90	1.10	0.74	10.90
Deaver	0.32	T.	T.	0.94	1.13	0.58	0.81	0.63	0.22	0.70	0.25	0.11	5.69
Diversion Dam	0.52	0.18	0.17	2.63	1.04	0.04	0.13	1.09	T.	0.59	0.70	T.	7.08
Dixon	.....	1.68	0.45	0.70	0.95	0.01	1.11	0.55	.....	0.50	0.47	2.22	.....
Dome Lake	1.10	1.08	1.16	6.36	2.40	1.17	.....	.....	.....	1.95	1.12	1.28	.....
Douglas	0.47	0.19	0.02	1.67	3.54	1.60	0.50	1.39	T.	0.49	0.92	0.64	11.43
Dubois	0.95	1.52	.....	.....	0.83	0.20	0.96	0.96	0.05	1.10	0.55	0.33	.....
Dutch Joe	1.32	3.28	.....	2.79	1.56	0.33	0.33	2.83	0.87	0.99	1.28	4.53	.....
Dwyer	0.83	0.34	0.00	2.26	.....	.....	.....	.....	.....	0.76	1.91	0.78	.....
Echeta	1.50	0.18	0.46	0.67	3.17	1.83	2.44	1.07	T.	2.17	1.33	0.50	15.32
Eden	0.05	1.85	0.22	0.16	.....	0.11	0.23	1.64	0.03	0.07	0.00	0.31	.....
Elk Mountain	0.70	0.77	0.66	2.91	2.17	0.03	0.07	0.16	0.10	1.20	T.	1.64	10.41
Encampment	0.42	0.92	0.64	1.65	0.28	0.13	0.70	1.42	0.28	0.43	0.53	1.11	8.51
Ervay	0.68	0.54	0.75	4.11	3.08	T.	1.21	1.25	0.53	2.95	0.68	0.69	16.47
Evanston	0.63	2.76	1.23	1.24	0.64	0.88	0.61	2.16	T.	0.73	2.08	1.99	14.95
Fort Laramie	0.56	0.36	0.06	2.25	2.37	3.38	1.69	1.35	0.42	0.72	1.65	0.83	15.64
Foxpark	1.21	3.14	1.70	1.51	2.32	0.71	0.25	1.37	0.66	1.03	1.80	3.21	18.91
Gillette	0.40	0.24	0.50	2.78	3.58	2.32	3.15	.....	0.01	0.82	0.41	0.37	.....
Green River	0.17	0.93	0.21	0.89	1.13	0.03	0.01	0.65	0.55	0.67	0.67	1.04	6.95
Hampshire (near)	0.44	0.01	0.04	2.61	3.38	2.79	3.14	1.05	0.03	0.31	0.73	0.18	14.71
Hecla	0.48	0.78	0.39	2.23	1.08	3.00	1.61	2.25	0.10	0.65	2.35	0.44	15.36
Hunter's Station	1.14	2.80	0.32	5.26	1.80	1.45	3.05	2.06	0.20	0.90	2.00	0.24	21.22
Hyattville	0.00	0.26	0.26	0.16	0.11	.....	0.08	.....	0.00	.....	.....	0.32	.....
Jackson	1.50	1.44	0.44	1.66	0.91	0.96	.....	2.76	1.57	0.44	1.15	1.74	.....
Judson	.....	.....	.....	1.62	1.72	0.40	1.37	.....	.....	0.52	0.83	0.61	.....
Kendall	1.98	1.25	0.35	1.50	1.18	1.43	0.30	1.89	0.66	0.31	.....	.....	.....
Kirtley	0.52	0.04	0.05	2.24	6.99	3.19	3.38	0.72	0.24	0.60	3.59	0.66	22.22
Knowles	0.78	0.56	0.68	3.98	9.23	5.42	4.31	1.33	0.03	1.49	3.64	0.62	32.07
Lagrange	0.72	0.74	0.49	2.42	3.58	1.77	1.89	1.33	0.22	0.47	2.68	1.16	17.47
Lander	1.13	0.40	0.60	3.65	1.70	0.38	0.09	1.04	0.02	1.97	1.57	0.03	12.56
Laramie	0.27	0.64	0.96	1.95	1.26	0.39	0.53	1.79	0.43	0.46	1.18	0.32	10.18
Lovell	0.47	0.34	0.05	0.97	1.06	0.79	1.28	0.61	0.17	0.33	0.41	0.58	7.06
Lusk	0.66	0.45	0.27	2.26	3.40	2.11	1.10	0.61	T.	0.24	1.41	0.63	13.14
Lyman	0.42	1.68	.....	1.82	0.51	0.30	1.90	1.30	0.19	0.95	0.95	1.20	.....
Middle Fork Ranger Station	.....	.....	.....	.....	1.32	0.06	0.14	0.21	0.48	1.71	.....	0.89	.....
Moran	2.04	2.42	0.69	0.84	1.22	1.29	1.86	2.28	1.68	0.77	0.77	2.22	17.99
Newcastle	0.87	0.26	0.15	1.96	3.83	1.99	5.78	1.68	0.19	0.51	1.83	0.24	19.29
Nine Mile Creek	0.45	0.01	0.29	1.75	0.85	.....	.....	.....	.....	.....	.....	0.20	.....
Painter	.....	.....	0.79	1.02	0.88	0.94	1.32	2.59	0.28	1.79	1.03	.....	.....
Pathfinder	0.36	0.31	0.28	2.50	2.43	0.11	0.54	0.94	T.	0.56	0.88	0.25	9.16
Pavillion	0.57	0.17	0.11	1.19	1.29	0.17	1.50	.....	.....	.....	0.60	0.00	.....
Pine Bluff	0.42	0.25	0.18	3.33	1.17	1.42	2.65	2.05	T.	T.	1.69	0.36	13.52

Monthly and annual precipitation (in inches and hundredths) for 1922—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Wyoming—Continued.													
Pinedale	0.81	0.97	0.69	0.77	0.82	0.45	0.74	3.28	0.43	0.84	0.76	0.96	11.52
Pine Ridge	0.71	.....	0.10	.....	3.89	4.25	1.60	1.00	.....	.....	.....	.....	.....
Powell	0.40	T.	T.	1.13	0.43	1.18	0.91	1.71	0.15	0.61	0.50	0.20	7.22
Quaking Aspen Creek	0.77	0.74	0.32	5.40	0.92	0.14	1.20	0.67	0.21	1.21	1.71	T.	13.29
Rawlins	0.10	0.90	T.	1.65	1.35	0.30	0.84	1.30	0.17	0.17	0.37	1.15	8.30
Riverton	.....	0.15	0.37	1.79	1.37	0.05	0.21	0.83	0.02	0.39	0.68	0.05	.....
Rockypoint	1.69	0.50	1.05	2.18	5.00	4.81	2.76	1.05	0.27	1.58	1.05	0.75	22.69
Salt Creek	.....	.....	.....	.....	.....	.....	1.65	0.39	0.01	0.89	0.40	0.58	.....
Saratoga	0.29	1.10	0.53	1.08	0.69	0.19	0.48	0.76	0.25	0.20	0.33	0.54	6.44
Sheridan	1.27	0.21	0.34	3.47	3.04	2.21	2.11	1.65	0.08	1.35	1.16	1.02	17.91
Sheridan Creek Ranger Station	.....	2.46	.....	.....	1.07	0.63	0.23	3.11	0.80	0.33	.....	.....	.....
Sheridan Field Station	0.35	0.19	0.35	2.63	2.82	3.48	3.12	1.27	0.15	1.20	0.82	0.69	17.07
Shoshone Dam	0.49	0.32	0.38	1.36	0.63	1.10	1.17	1.04	0.25	0.65	0.40	1.40	9.19
South Pass City	0.83	1.67	0.80	1.39	0.82	0.26	0.60	1.45	0.04	0.58	0.41	1.33	10.18
Spencer (near)	0.80	0.05	0.04	3.35	3.65	2.76	3.86	2.26	0.26	1.12	0.90	0.50	19.55
Sundance	1.79	0.60	0.96	2.22	5.01	4.09	5.75	1.72	0.10	1.42	3.19	0.96	27.81
Thermopolis	0.78	0.30	0.45	5.76	1.72	1.10	2.34	1.22	0.27	2.39	0.90	0.10	17.33
Torrington	1.20	0.26	0.45	2.82	3.15	3.46	2.47	1.37	0.80	0.20	2.55	0.47	19.20
Upton	0.70	0.20	0.10	1.93	3.30	2.04	5.07	1.44	0.14	0.59	1.89	0.23	17.63
Verona	1.14	0.25	0.80	2.55	2.40	1.75	2.60	0.38	T.	1.78	0.62	1.27	15.54
Wheatland	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.57	1.22	0.90	.....
Willow Springs Ranger Station	1.59	.....	.....	.....	8.29	3.97	5.29	1.21	0.20	0.73	.....	1.08	.....
Worland	0.35	0.31	0.16	1.35	0.68	0.25	0.77	1.67	0.16	0.32	0.89	0.45	7.36
Yoder	0.40	0.62	0.20	3.03	3.62	1.17	1.92	1.23	0.45	0.47	3.26	0.52	16.89
Yellowstone Park	0.74	1.84	0.66	1.15	1.08	0.56	1.45	1.60	0.10	0.34	0.96	1.98	12.46
Buffalo Ranch	0.85	1.45	0.75	0.36	1.19	0.84	2.28	1.89	.....	0.01	.....	.....	.....
Gallatin	0.74	.....	1.15	1.84	2.40	1.03	1.48	3.45	0.60	.....	.....	1.26	.....
Lake Yellowstone	.....	.....	.....	1.02	1.56	1.16	1.82	2.72	0.49	0.05	0.69	2.45	.....
Riverside	1.87	.....	.....	.....	.....	.....	1.44	2.47	.....	0.32	1.25	.....	.....
Snake River	2.54	3.99	0.93	1.80	1.72	2.96	2.45	1.83	1.08	1.24	1.15	4.17	25.86

SNOWFALL, 1922-23.

Monthly and seasonal snowfall, 1922–23.

NOTE.—Leaders under heading of months indicate no snow; under seasonal, report incomplete; T., a trace; *, no report.

[Inches and tenths.]

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Alabama.										
Anniston							T.			T.
Auburn			T.							T.
Birmingham						T.	T.			T.
Decatur							T.			T.
Evergreen										0.0
Florence						4.0				4.0
Gadsden						T.	T.			T.
Greensboro			T.							T.
Highland Home			T.							T.
Maple Grove										0.0
Mobile										0.0
Montgomery			T.							T.
St. Bernard						T.	T.			T.
Union Springs			T.							T.
Valley Head										0.0
Alaska.										
Akiak	(*)	(*)	12.1	9.2	15.4	7.7	18.3	6.3		
Allakaket	T.	4.3	16.8	4.0	20.0	24.6	24.6	11.0	4.0	[1] 109.3
Anchorage		T.	7.0	3.0	16.8	11.6	7.1	2.0		47.5
Annex Creek		7.0	23.4	37.5	68.5	58.0	44.3	T.		238.7
Barrow	6.6	14.6	8.3	8.5	19.8	(*)	(*)	(*)	(*)	(2)
Bonanza Mine	18.0	39.0	31.0	8.0	(*)	(*)	(*)	(*)	(*)	(2)
Broad Pass	1.0	26.0	23.0	9.0	22.0	(*)	(*)	(*)	(*)	(2)
Calder			1.0	14.0	13.0	2.0	7.0			37.0
Candle	1.0	5.5	11.5	2.0	9.5	5.0	6.5	10.5	3.0	54.5
Chickaloon		T.	8.2	(*)	17.5	8.0	16.9	1.0		
Chitina	4.3	2.0	20.6	7.8	11.9	8.5	18.8	0.5		[1] 74.4
Copper Center	T.	1.0	16.0	7.8	5.5	9.6	(*)	(*)	(*)	(2)
Cordova		15.0	27.0	6.2	35.5	6.7	38.5	3.2		132.1
Dillingham		T.	13.5	4.5	16.0	5.0	39.0	1.5		79.5
Eagle	2.5	5.3	12.7	7.0	3.4	18.0	9.1	1.4	3.0	[2] 64.4
Fairbanks		4.4	3.4	3.9	18.1	10.0	6.7	T.	3.2	[3] 52.7
Fortmann Hatchery		0.5	T.	26.0	40.5	4.5	2.0			73.5
Fort Yukon	2.5	4.1	7.5	(*)	4.8	25.0	5.0	7.0	(*)	
Healy	3.0	(*)	10.0	(*)	(*)	(*)	(*)	(*)	(*)	(2)
Holy Cross	0.2	0.3	32.5	7.3	19.5	43.0	32.5	7.0		142.3
Iliamna		1.0	8.0	10.0	26.8	16.5	(*)	(*)	(*)	
Juneau			8.9	18.1	46.2	28.2	39.7	T.		141.1
Kake			1.2	10.6	6.2	12.4	18.0			48.4
Katalla	(*)	4.0	19.3	12.8	40.6	24.9	7.4	T.		
Kennecott	6.0	T.	21.2	7.7	37.6	10.0	36.5	T.		[3] 119.0
Ketchikan				13.0	12.0	2.5	1.0			28.5
Killismoo	(*)	(*)	(*)	6.2	(*)	2.4	6.3			
Kodiak Experiment Station			7.0	T.	12.6	24.4	10.8	1.0		55.8
Matanuska		T.	6.1	0.8	18.8	12.8	6.9	3.5		48.9
McKinley Park	(*)	(*)	(*)	(*)	10.7	12.4	1.6	1.7		
Nenana		4.2	4.7	3.4	11.9	9.6	10.8	0.5	2.0	[1] 47.1
Nome	T.	T.	16.1	7.2	28.6	4.3	12.4	1.4	0.9	70.9
Noorvik	T.	1.0	19.8	6.8	30.0	6.0	15.2	6.4	5.5	90.7
Nulato	T.	8.9	26.2	4.6	44.1	12.6	16.0	0.2	0.1	112.7
Paxson	(*)	4.0	10.5	(*)	15.5	10.0	(*)	5.5	1.6	(2)
Rampart	0.8	17.2	11.0	4.7	29.3	21.2	9.6	1.6	1.0	[1] 96.4
St. Paul Island		3.0	2.3	0.1	10.5	4.6	7.1	0.2	T.	27.8
Salmon River	T.	8.6	6.8	6.5	(*)	(*)	(*)	(*)	(*)	(1)

[1] Trace in August, 1922.
[2] Amounts in July and August, 1922, and June, 1923, respectively: Barrow, 9.0, 0.5, (*); Bonanza Mine, 51.0, 16.0, (*); Broad Pass, (*), 6.0, 6.0; Copper Center, 0.0, 3.0, (*); Healy, 0.0, 5.0, (*); Paxson, (*), 2.0, 0.0.
[3] Includes August, 1922: Eagle, 2.0; Fairbanks, 3.0; Kennecott, 6.0.

Monthly and seasonal snowfall, 1922–23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Alaska—Continued.										
Seldovia	(*)	(*)	(*)	2.0	18.3	25.2	15.0	5.0		
Seward	T.	6.0	5.5	6.0	24.0	2.0	13.4	6.0		62.9
Shaktoolik	(*)	(*)	(*)	5.6	9.7	2.3	27.5	(*)	(*)	
Sitka		T.	T.	13.0	11.6	2.9	2.0	T.		29.5
Skagway		3.0	13.3	2.9	4.1	17.3	7.4	T.		[4] 48.1
Streina	(*)	3.0	16.0	(*)	14.0	14.0	24.0	(*)		
Talkeetna		2.0	25.0	8.1	39.5	11.0	44.3	1.2		131.1
Tanana	1.3	5.1	7.6	1.5	14.1	21.7	30.1	6.2	4.0	91.6
Tunnel	(*)	(*)	(*)	(*)	56.9	66.0	39.0	(*)		
Valdez	T.	4.5	50.0	22.5	59.2	62.5	44.5	T.		243.2
White Mountain	0.8	T.	12.5	3.2	39.2	(*)	23.5	(*)	(*)	
Wrangell	(*)	(*)	4.5	14.2	21.5	4.3	8.2			
Yakutat		1.0	23.0	12.5	50.3	29.5	25.5	T.		[4] 143.3
Arizona.										
Ajo						0.5				0.5
Bisbee		(*)	(*)			3.0	(*)	T.		
Blue		T.	14.0		3.5	2.0	2.0			21.5
Cedar Glade			T.		T.	11.0	7.0			18.0
Chin Lee		T.	0.5	T.	T.	4.5	1.5			6.5
Clemenceau										0.0
Clifton			T.			T.				T.
Constellation			(*)			1.5				
Cosnino		7.0	28.0	3.0	14.5	17.0	8.0	2.0		79.5
Crown King		3.0	8.0		2.0	20.0	11.0			44.0
Elgin			T.			2.0				2.0
Flagstaff		11.0	21.6	1.2	18.7	23.6	15.5	5.7		97.3
Fort Valley		15.5	21.5	0.8	16.8	(*)	(*)	(*)	T.	
Gisela		T.	T.			1.0	T.			1.0
Globe			T.							T.
Grand Canyon		4.0	12.5	1.2	7.2	19.0	14.8	4.8	T.	63.5*X*
Henry's Camp	(*)	(*)	(*)	(*)	11.0	16.5	17.5	4.5		
Hereford						T.				T.
Holbrook		T.	3.0	(*)	(*)	(*)	(*)	T.		
Indian Oasis										0.0
Jerome		T.	5.5		2.5		2.5			10.5
Kayenta		1.0	T.	1.5	1.0	7.0	10.0	0.2		20.7
Kingman			T.			1.5				1.5
Lakeside Ranger Station		6.5	(*)	(*)	6.0	33.0	15.5	(*)		
Lewis Springs										0.0
Miami			1.5							1.5
Mount Harqua Hala		T.	3.4		0.5	9.4	2.5	4.0		19.8
Natural Bridge			16.0	4.0	T.	12.0	10.0	T.		42.0
Paradise		0.2	8.5			5.0				13.7
Phoenix										0.0
Pinal Ranch		T.	4.5	9.0		12.5				26.0
Pinedale		4.0	17.0		5.5	28.0	3.1	T.		57.6
Pinto		3.0	(*)	1.0	2.5	12.5	2.0			
Portal			5.5			2.0				7.5
Prescott			7.0		4.0	8.0	6.0			25.0
Sacaton										0.0
St. Johns			4.0			8.0	16.0			28.0
St. Michaels		2.0	14.5		2.0	2.0	1.0			21.5
Seligman	(*)	(*)	3.0	T.	T.	7.0	2.0			
Show Low Ranger Station		8.0	13.0	T.	3.0	23.0	5.0	T.		52.0
Snowflake		1.5	2.5		(*)	13.5	T.			
Springerville		T.	5.0		2.0	6.0	8.0	0.2		21.2
Spring Valley Ranger Station		8.0	(*)	6.0	(*)	25.0	34.0	9.0	(*)	
Tombstone								T.		T.
Tonto Ranger Station		T.	T.		11.5		(*)			
Tuba City			(*)			0.3	1.0			
Tucson										0.0
University of Arizona										0.0
Walnut Creek Ranger Station		(*)	6.0		4.0	34.9	13.5	(*)	(*)	
Williams		7.0	14.0	4.2	10.0	23.5	21.0	2.4		82.1
Winslow			1.5		(*)	6.5	(*)	(*)		
Yaeger Canyon	(*)	(*)	(*)	(*)	12.0	7.0	6.0	(*)	(*)	
Young	(*)	(*)	(*)		(*)	17.0	1.0	T.	(*)	
Yuma										0.0

[4] Includes August, 1922: Skagway, 0.1; Yakutat, 1.5.

Monthly and seasonal snowfall, 1922–23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Arkansas										
Arkadelphia						2.0				2.0
Bee Branch						T.				T.
Bentonville					T.	3.0	0.4			3.4
Brinkley						4.8				4.8
Calico Rock						T.				T.
Camden						1.0				1.0
Corning						T.				T.
Dardanelle						0.4				0.4
Dodd City						1.0				1.0
Dumas						7.5				7.5
Dutton				0.5		1.5	T.			2.0
El Dorado						5.5				5.5
Eureka Springs						2.0	T.			2.0
Fayetteville						2.5				2.5
Fort Smith						1.2	T.			1.2
Georgetown						3.0				3.0
Grannis					4.0	0.4				4.4
Helena						4.0				4.0
Hope						4.0				4.0
Jonesboro						0.4				0.4
Lincoln						2.5	T.			2.5
Little Rock						3.1				3.1
Lutherville						1.0				1.0
Mount Ida					T.	T.				T.
Nail				1.0		5.0				6.0
Pine Bluff						3.0				3.0
Portland						3.5				3.5
Texarkana						3.5				3.5
Waldron					2.0	T.	T.			2.0
Warren						6.0				6.0
Wynne						3.0				3.0
California.										
Big Bar			T.	3.0	6.0	10.0				19.0
Bishop Creek		2.0	31.0	29.0	18.0	1.0	1.0	22.0	8.0	[5] 116.0
Blue Canyon			25.0	44.0	69.0	29.5	9.0	35.0		211.5
Branscomb				7.0	16.5	5.0	1.5	1.0		31.0
Camptonville (near)		T.	T.	12.5	20.5	24.0	3.0	0.5		60.5
Canyon Dam			14.0	35.0	25.0	11.0		4.0		89.0
Cascada		2.0	18.0	10.5	51.5	6.0	4.5	11.0		103.5
Cedarville		T.	3.0	14.5	11.5	2.5	2.5	1.5	4.0	[5] 39.5
Chester		T.	18.0	35.0	31.0	9.5	0.5	12.0	T.	[6] 106.0
Colfax				2.0	13.0	15.0	4.0			34.0
Cuyamaca			9.5	0.5	9.5	23.0	1.0	2.0		45.5
Deer Creek			3.0	17.5	37.0	24.0	9.0	6.0	T.	96.5
De Sabla				2.8	10.0	16.0				28.8
Dinkey Meadow		5.0	31.0	47.0	57.0	16.0	8.0	18.0	3.0	[5] 187.0
Dobbins (near)				0.5		1.0				1.5
Downieville			1.5	17.0	28.5	21.8	4.5	3.0		76.3
Dudleys			1.5	4.0	22.0	17.0	0.5	T.		45.0
Emigrant Gap		4.0	53.0	43.0	62.0	36.0	8.0	39.0	T.	245.0
Eureka										0.0
Fordyce Dam		7.0	83.0	126.0	104.0	26.0	17.0	58.0	4.0	[5] 432.0
Fort Bidwell			4.0	15.0	12.0	4.0	0.5	4.0	2.0	41.5
Fresno										0.0
Glennville (near)			1.0		14.0	10.0	T.	3.0		28.0
Grass Valley				5.0	6.5	10.0	2.0			23.5
Happy Camp			1.0	(*)	10.0	2.0	0.5			
Hat Creek			0.2	14.6	10.5	4.8		0.9		31.0
Hayfork			T.	14.5	T.	5.0				19.5
Hetch Hetchy			7.0	11.0	40.8	9.0	1.5			69.3
Hobbler's Camp		23.0	60.0	96.0	75.0	13.0	13.0	34.0	10.0	[5] 327.0
Hot Springs					13.0	13.0	4.0	1.0		31.0
Hullville (near)				10.1	9.5	7.2	T.	T.		26.8
Huntington Lake		10.0	46.0	55.5	69.0	6.0	1.0	35.0	7.0	[6] 229.5
Independence				0.5	T.	T.				0.5
Inskip		1.0	12.0	47.0	49.0	38.5		27.2		174.7
Julian		T.	3.0		18.0	3.0		3.0		27.0

[5] Includes June, 1923: Bishop Creek, 4.0; Dinkey Meadow, 2.0; Fordyce Dam, 7.0; Hobbler's camp, 3.0.

[6] Trace in June, 1923.

Monthly and seasonal snowfall, 1922–23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
California—Continued.										
Kennett				4.5	4.0	4.0				12.5
Kings River, North Fork		5.0	47.0	76.0	68.0	22.0	9.0	36.5		[7] 266.5
Lake Eleanor		1.5	14.0	30.5	52.0	21.0	7.0	6.5		132.5
Lake Spaulding		2.0	41.0	38.0	79.0	41.0	11.5	37.5		250.0
La Porte		T.	18.7	53.1	39.4	27.5	5.0	29.1		[6] 172.8
Lick Observatory			T.	0.9	32.9	19.7		T.		53.5
Los Angeles										0.0
McCloud			10.0	34.0	31.0	22.0	T.	T.		97.0
Madeline		T.	6.0	29.0	17.0	4.0	4.0	2.0	5.0	[7] 69.0
Markleeville			15.0	14.0	32.5	7.0	9.0	2.0	T.	79.5
Mill Creek (Amador County)				3.0	23.0	8.5	1.0			35.5
Montague			1.5	5.8	1.2	7.5	0.2	T.		16.2
Mount Tamalpais					1.8	2.0				3.8
Mount Wilson		0.5	3.5	1.0	23.0	12.5	4.0	4.5		49.0
Nellie					19.6	9.8	9.0			38.4
Nevada City			0.5	6.0	5.5	12.0	1.0	T.		25.0
North Bloomfield				14.0	15.8	17.2	2.5			49.5
North Fork				T.	16.5	11.0				27.5
Placerville					5.0	5.0				10.0
Point Reyes										0.0
Quincy			6.0	20.0	20.0	15.0	3.0	T.		64.0
Red Bluff										0.0
Ruth			T.	9.0	15.0	9.5				33.5
Sacramento										0.0
San Diego										0.0
San Francisco										0.0
San Jose						T.				T.
San Luis Obispo					0.3					0.3
Seven Oaks		6.0	3.0	2.0	22.0	20.0	5.0	6.0		64.0
Shield's Ranch		T.	8.0	9.0	14.5	4.0	4.0	2.0	0.2	41.7
Sierraville			22.5	31.0	40.0	24.0	9.5	1.0	4.0	[8] 134.0
Sisson			15.0	9.0	26.0	14.0		1.0		65.0
Springville (near)		4.0	9.0	7.0	35.0	13.5	7.0	2.0		77.5
Squirrel Inn			6.0	13.0	28.0	10.0	12.0	2.0		71.0
Summit		14.0	86.0	142.0	104.0	37.0	16.0	48.0	T.	[8] 455.0
Tahoe			26.0	80.0	85.0	16.0	9.5	24.0	0.5	[8] 245.0
Tamarack		10.0	88.0	126.0	125.0	34.0	15.0	69.0	16.0	[8] 492.0
Twin Lakes		9.8	30.0	159.0	84.0	38.0	9.0	32.5		362.3
Weaverville			T.	6.5	T.	4.0				10.5
West Branch				13.0	23.5	30.5		1.0		68.0
Westwood		0.8	17.6	43.2	30.0	16.8	2.0	4.8	0.2	115.4
Yosemite				19.0	44.5	17.0	7.5		T.	88.0
Yreka				28.0		12.0				40.0
Colorado.										
Akron		0.5	8.0	1.0	T.	2.0	7.8	0.8		20.1
Ames		10.0	31.5	54.0	9.8	8.5	44.0	16.2	11.0	[9] 187.0
Ashcroft		7.0	34.0	59.0	13.5	(*)	(*)	19.0		
Auldhurst		1.4	19.0	7.0		19.5	22.5	5.0	9.0	83.4
Boulder		1.1	14.0	3.7	T.	24.4	(*)	2.5	0.2	
Buena Vista (near)		T.	22.8	5.5	3.5	12.5	15.5			59.8
Burlington			6.0	T.	T.	2.0	6.0	T.	(*)	
Calhan			11.0	1.0	T.	8.0	6.5	2.0	T.	28.5
Canon City			7.5	0.5		13.0	15.0			36.0
Cascade		2.0	46.0	50.0	26.0	22.0	37.0	20.0	6.0	209.0
Cathedral		1.0	21.8	16.0	1.5	3.0	12.0	6.5	T.	61.8
Cheesman		2.0	13.5	3.2	0.8	11.8	11.6	T.	2.7	45.6
Cheyenne Wells			3.0	6.5		5.5	6.0			21.0
Collbran		2.0	18.5	(*)	20.5	5.5	19.0	6.0		
Columbine		4.0	13.5	61.5	16.0	20.0	43.0	19.5	1.0	178.5
Cope			3.7	1.1		T.	3.3	T.		8.1
Crested Butte			17.0	108.0	47.5	38.0	62.0	37.0	11.0	320.5
Cuchara Camps		11.2	37.8	9.8	3.5	32.0	31.2	10.5	7.2	143.2
Cumbres		4.0	42.0	40.5	20.2	28.0	64.0	40.2	13.0	[9] 254.4
Delta		T.	5.5	(*)	(*)	2.0	8.5			
Denver		0.5	15.4	4.8	1.3	13.8	25.7	2.0	T.	63.5

[6] Trace in June, 1923.
[7] Includes June, 1923: Kings River, North Fork, 3.0; Madeline, 2.0.
[8] Includes June, 1923: Sierraville, 2.0; Summit, 8.0; Tahoe, 4.0; Tamarack, 9.0.
[9] Includes June, 1923: Ames, 2.0; Cumbres, 2.5.

Monthly and seasonal snowfall, 1922-23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Colorado—Continued.										
Dillon	.....	9.8	19.5	48.8	13.0	5.5	20.0	9.8	5.8	[10] 138.2
Dolores	.....	5.5	(*)	6.0	19.0	6.3	11.0	1.0	.....	.....
Elk Creek	.....	8.5	32.0	5.0	1.5	(*)	22.8	4.0	5.5	.....
Estes Park Fish Hatchery	.....	19.0	22.0	22.0	5.0	22.0	51.0	22.0	25.0	188.0
Fort Collins	.....	4.0	7.0	1.2	2.0	19.4	32.5	T.	T.	66.1
Fort Lupton	.....	0.5	9.3	2.5	2.0	12.5	24.0	3.0	1.0	54.8
Fraser	.....	12.0	32.0	59.5	28.0	11.5	31.0	18.5	7.0	[10] 205.5
Fremont Experiment Station	.....	8.6	28.6	3.1	T.	23.5	24.0	8.9	8.8	[10] 106.1
Fruita (near)	.....	T.	0.3	2.1	6.0	2.2	10.5	T.	.....	21.1
Fry's Ranch	.....	10.5	14.0	17.5	2.5	9.0	25.0	15.0	15.0	108.5
Garfield	.....	2.0	30.0	58.5	15.5	28.6	55.0	9.5	19.5	218.6
Garnett	.....	.....	6.5	.....	.....	T.	7.0	.....	.....	13.5
Glenwood Springs	.....	4.0	19.0	34.0	21.6	14.0	29.0	.....	.....	121.6
Goodpasture	.....	2.0	20.3	6.3	.....	29.7	31.3	T.	.....	89.6
Grand Junction	.....	T.	T.	5.0	5.3	1.5	14.1	T.	.....	25.9
Greeley	.....	T.	4.0	2.7	(*)	15.0	25.0	3.0	T.	.....
Grover (near)	.....	2.0	(*)	3.0	1.0	4.0	7.8	2.0	.....	.....
Gunnison	.....	1.0	7.8	29.0	12.5	8.5	12.5	0.5	T.	71.8
Hartsel	.....	.....	16.5	17.0	1.0	9.0	22.5	0.8	T.	66.8
Hoyt	.....	T.	10.0	1.0	1.0	10.5	21.0	T.	.....	43.5
Huerfano	.....	.....	8.0	.....	.....	10.0	13.7	.....	.....	31.7
Idaho Springs	.....	16.8	19.4	13.5	1.2	10.7	16.0	7.0	12.0	96.6
Ignacio	.....	T.	18.0	2.0	12.0	2.0	4.0	.....	.....	38.0
Julesburg	.....	T.	(*)	T.	0.1	3.0	9.0	2.0	T.	.....
Kassler	.....	.....	15.0	7.0	1.5	20.0	23.0	2.0	2.0	70.5
La Junta	.....	.....	8.4	1.5	T.	9.4	6.0	.....	T.	25.3
Lake Moraine	.....	14.0	45.0	9.0	T.	25.0	28.5	7.0	12.5	141.0
La Porte	.....	8.0	6.5	1.8	2.5	24.5	43.0	.....	.....	86.3
Las Animas	.....	.....	8.0	T.	T.	7.5	2.5	2.0	.....	20.0
La Veta Pass	.....	1.1	39.0	10.0	7.0	35.0	34.0	1.9	T.	128.0
Lay	.....	.....	13.5	39.0	16.5	12.0	39.5	21.0	.....	141.5
Leadville	.....	5.5	23.9	44.0	12.5	9.0	26.1	(*)	(*)	(*)
Longs Peak (near)	.....	16.0	18.0	21.0	8.0	21.5	52.0	25.0	22.0	183.5
Meeker (near)	.....	T.	20.0	(*)	19.0	4.0	28.5	8.5	.....	.....
Montrose	.....	T.	7.5	8.5	.....	1.5	5.0	.....	.....	22.5
Monument	.....	.....	17.5	3.5	.....	16.0	18.2	3.5	T.	58.7
Morrison	.....	3.5	21.5	8.5	2.0	33.5	36.0	2.0	2.0	109.0
Nast	.....	3.0	32.5	60.0	6.0	6.0	23.0	8.0	3.0	[6] 141.5
Palisade Lake	.....	4.0	56.0	37.5	32.5	33.0	38.0	21.5	11.5	234.0
Paonia	.....	0.5	13.0	13.2	5.5	4.2	15.5	.....	.....	51.9
Pueblo	.....	.....	12.2	T.	T.	8.6	6.9	0.7	T.	28.4
Pyramid	.....	7.5	35.0	73.9	(*)	(*)	(*)	34.4	3.0	.....
Rico	.....	11.5	46.0	41.0	19.0	22.5	32.0	27.0	8.5	207.5
Rifle	.....	.....	(*)	6.5	8.5	3.0	16.0	.....	.....	.....
Sapinero (near)	.....	6.5	38.9	66.0	29.0	14.0	33.0	32.0	17.5	236.9
Savage Basin	.....	8.0	54.0	51.0	30.0	11.0	45.0	51.0	46.0	[11] 304.0
Sedgwick	.....	T.	2.5	T.	T.	5.8	8.8	6.0	(*)	.....
Shoshone	.....	.....	27.0	32.5	31.0	20.0	35.5	.....	.....	146.0
Silver Lake	.....	26.0	30.0	(*)	58.0	(*)	87.0	72.0	63.0	([12])
Silverton (near)	.....	3.0	30.0	39.0	17.0	9.0	29.0	20.0	.....	147.0
Simpson (near)	.....	0.4	5.5	1.0	1.0	6.9	15.5	2.5	.....	32.8
Spicer (near)	.....	6.0	9.0	31.0	10.0	8.0	20.0	10.0	1.0	95.0
Steamboat Springs	.....	9.9	14.0	79.3	23.0	20.2	63.2	16.8	1.0	227.4
Sterling	.....	.....	9.0	1.0	1.3	4.5	16.0	8.0	T.	39.8
Tacoma	.....	.....	35.0	9.0	18.0	10.0	10.0	3.0	.....	85.0
Telluride	.....	(*)	33.0	30.0	5.0	5.5	(*)	10.0	2.0	.....
Trinidad	.....	.....	13.5	5.3	.....	11.5	20.0	8.0	.....	58.3
Trout Lake	.....	4.0	46.5	56.5	19.5	14.0	35.0	27.5	15.0	218.0
Two Buttes	.....	.....	2.7	3.0	1.0	1.5	5.5	T.	.....	13.7
Victor (near)	.....	9.5	24.0	5.8	.....	18.8	21.0	3.6	3.5	86.2
Wagon Wheel Gap Experiment Station	.....	4.0	43.3	10.5	9.1	10.3	13.6	19.8	1.0	111.6
Willard	.....	.....	3.0	2.0	2.0	5.0	18.0	.....	.....	30.0
Yuma	.....	.....	10.0	(*)	0.8	2.8	9.5	.....	.....	.....

[6] Trace in June, 1923.
[10] Includes June, 1923: Dillon, 6.2; Fraser, 6.0; Fremont Experiment Station, 0.6.
[11] Includes June, 1923: Savage Basin, 8.0.
[12] 10.1 in June, 1923.

Monthly and seasonal snowfall, 1922–23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Connecticut.										
Bridgeport			T.	6.0	30.3	17.2	6.2	T.		59.7
Canton			(*)	7.0	42.0	15.0	6.0	(*)		
Colchester			0.5	13.0	37.5	17.0	6.5	T.		74.5
Cream Hill			1.5	22.2	47.8	25.5	16.7	1.5		115.2
Hartford			0.5	12.1	40.1	16.8	3.8	0.2		79.9
New Haven			0.2	6.2	31.2	13.1	6.0	T.		56.7
New London			T.	5.5	27.0	17.8	4.0			54.3
Norwalk			0.5	6.0	31.0	18.0	8.0	(*)		
Torrington			0.8	18.0	36.6	(*)	(*)	T.		
Waterbury			0.2	11.0	23.2	(*)	(*)	(*)		
Delaware.										
Dover			T.	2.7	4.0	7.7	4.0	T.		18.4
Milford			T.	1.5	T.	11.0	4.0	T.		16.5
Millsboro				1.5	T.	11.8	5.0			18.3
Seaford				1.0	T.	10.0	3.0			14.0
Wilmington			T.	2.2	5.0	7.0	6.0	(*)		
District of Columbia.										
Washington (Weather Bureau)			T.	1.7	3.1	3.9	6.5	T.	T.	15.2
Florida.[13]										
Georgia.										
Albany			T.							T.
Athens					1.5					1.5
Atlanta					T.					T.
Augusta			T.							T.
Blue Ridge			T.	T.		T.	T.			T.
Brunswick										0.0
Concord			0.5							0.5
Cornelia										0.0
Dahlonega						T.				T.
Gainesville										0.0
Lisbon										0.0
Macon			T.							T.
Norcross										0.0
Rome										0.0
Savannah										0.0
Statesboro			T.							T.
Thomasville										0.0
Toccoa						T.				T.
Waycross										0.0
West Point			0.5							0.5
Idaho.										
Aberdeen			1.0	5.6	4.5	2.0	3.0	T.	T.	16.1
Alpha		0.5	4.0	56.0	45.5	23.5	21.5	4.0	2.0	157.0
Arco			2.5	27.0	17.0	12.0	1.0	T.	T.	52.5
Argora			12.0	25.5	22.5	2.0	6.5	T.	T.	68.5
Ashton			2.0	16.0	20.0	12.0	20.0	4.0	T.	74.0
Atlanta		T.	2.5	51.5	33.5	12.0	31.3	(*)	(*)	
Avery			3.0	14.5	18.0	7.0	11.0			53.5
Blackfoot			4.0	10.5	7.2	2.0	6.5	3.0		33.2
Bogus Creek			T.	25.0	35.0	19.0	2.0	8.5	T.	89.5
Boise			T.	6.8	8.1	4.5	0.1	T.		19.5
Boulder Mine		T.	3.4	60.9	60.0	(*)	(*)	(*)		
Cambridge			T.	29.0	34.5	(*)	2.5	(*)		
Coeur d'Alene			T.	42.6	15.2	19.4	8.3	T.	T.	85.5
Council				32.7	30.5	11.0	6.5			80.7
Cuprum		T.	1.5	50.0	36.0	24.0	6.2	8.0	2.5	[14] 128.7
Geneva		3.0	6.0	14.0	18.0	5.0	16.0	4.0		66.0
Grace			5.5	14.5	18.0	8.0	10.0	5.0		61.0
Grangeville			2.3	21.3	4.0	17.4	9.6	3.5		58.1
Grimes Pass		1.5	2.5	59.8	39.5	26.1	11.3	9.5	T.	150.2

[13] No snowfall reported in the State this season.

[14] Includes June, 1923: Cuprum, 0.5.

Monthly and seasonal snowfall, 1922–23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Idaho—Continued.										
Hailey	.....	.....	3.4	38.8	33.4	25.5	2.0	T.	2.0	105.1
Hill City	.....	.....	1.0	27.5	27.2	13.0	11.5	(*)	(*)	.....
Idaho City	.....	T.	0.6	31.9	52.0	21.0	15.0	8.0	.....	128.5
Idaho Falls	.....	T.	2.5	8.7	4.2	2.8	1.5	.....	.....	19.7
Irwin	.....	.....	9.5	19.0	24.5	4.5	5.5	T.	.....	63.0
Kellogg	.....	.....	0.5	39.5	13.9	11.5	7.9	1.0	.....	74.3
Lewiston	.....	.....	0.7	7.8	0.3	4.8	0.3	.....	.....	13.9
Lifton	.....	2.2	9.0	10.5	22.5	2.8	4.2	8.2	T.	59.4
Little Camas	.....	1.0	2.0	21.8	36.5	5.8	2.0	0.5	T.	69.6
Loon Creek	T.	T.	3.8	41.2	16.4	9.8	9.0	2.8	1.0	84.0
McCall	.....	1.0	3.8	61.7	38.0	15.0	19.0	T.	T.	138.5
Mackay	.....	.....	1.0	19.0	15.0	6.0	2.0	.....	T.	43.0
Moscow	.....	.....	2.0	26.5	18.6	16.7	13.8	T.	.....	77.6
Musselshell	.....	T.	3.2	66.4	59.3	29.6	41.1	2.0	.....	201.6
New Meadows	.....	1.0	.....	55.3	33.5	19.7	17.5	5.0	T.	132.0
Nezperce	.....	.....	3.0	17.0	9.0	8.0	11.0	4.0	.....	52.0
Oakley	.....	.....	7.0	12.5	9.5	3.0	1.0	2.2	T.	35.2
Obsidian	.....	.....	5.3	33.5	27.0	7.0	14.5	9.5	0.5	97.3
Pine	.....	.....	3.0	47.0	39.5	15.0	7.0	.....	.....	111.5
Pocatello	.....	T.	1.3	19.5	8.5	6.1	10.0	5.0	.....	50.4
Porthill	.....	.....	T.	23.5	18.0	17.0	1.5	1.0	.....	61.0
Potlatch	.....	.....	4.5	27.5	5.0	9.0	8.0	T.	T.	54.0
Preston	.....	T.	1.0	21.8	26.0	16.0	9.0	6.0	.....	79.8
Priest River Experiment Station	.....	2.0	2.4	50.8	35.8	14.2	10.3	0.5	T.	116.0
Pyle Creek	.....	T.	T.	30.0	46.0	19.0	8.5	T.	.....	103.5
Rice	.....	1.0	5.0	31.0	31.0	(*)	(*)	(*)	1.0	.....
St. Maries	.....	.....	1.0	39.8	11.5	14.5	1.0	.....	.....	67.8
St. Michael's Monastery	.....	T.	4.7	29.1	21.6	13.9	28.7	2.0	.....	100.0
Sandpoint	.....	T.	0.7	49.5	27.0	8.0	12.0	3.0	0.5	100.7
Sheep Hill	.....	1.0	1.0	43.0	52.5	21.7	10.4	2.0	.....	131.6
Soldier Creek	.....	.....	4.5	71.0	48.5	25.0	12.0	1.5	T.	162.5
Spencer	.....	3.0	10.5	27.0	25.5	12.0	7.0	12.0	4.0	101.0
Springfield	.....	.....	4.8	10.8	7.2	2.2	10.2	3.8	.....	39.0
Stanley	.....	.....	1.4	18.8	23.5	2.0	23.0	17.2	T.	85.9
Sugar	.....	T.	0.9	47.9	8.0	4.0	2.5	3.0	.....	66.3
Tripod Mountain	.....	0.5	0.4	24.8	29.4	14.4	8.0	5.0	.....	82.5
Twin Falls	.....	.....	2.7	5.9	5.1	4.6	1.5	T.	T.	19.8
Wallace	.....	.....	2.8	52.3	41.8	10.2	21.4	.....	T.	128.5
Warren	T.	0.5	4.0	71.0	41.0	18.0	16.5	10.0	.....	161.0
Illinois.										
Aurora	.....	.....	T.	0.3	6.0	6.4	9.5	2.5	T.	24.7
Bloomington	.....	.....	3.0	2.0	3.8	2.9	6.2	4.0	T.	21.9
Cairo	.....	.....	T.	.....	.....	1.2	T.	.....	.....	1.2
Charleston	.....	.....	4.0	2.0	1.4	4.5	T.	T.	T.	11.9
Chicago	.....	.....	0.2	2.4	4.4	8.0	5.3	0.6	0.6	21.5
Decatur	.....	.....	4.0	2.0	3.3	3.2	1.0	1.0	T.	14.5
Du Quoin	.....	.....	T.	0.3	.....	1.0	T.	.....	.....	1.3
Flora	.....	.....	2.0	0.8	T.	1.5	T.	.....	T.	4.3
Galva	.....	.....	3.2	0.5	4.7	4.0	14.8	0.3	T.	27.5
Hillsboro	.....	.....	T.	1.0	0.1	2.1	T.	T.	T.	3.2
Kankakee	.....	.....	T.	3.3	3.4	1.2	2.6	1.5	T.	12.0
La Harpe	.....	.....	.....	2.3	9.0	1.5	10.0	T.	T.	22.8
La Salle	.....	.....	1.5	0.4	4.6	3.5	7.0	T.	T.	17.0
McLeansboro	.....	.....	T.	0.8	.....	1.2	T.	.....	.....	2.0
Marengo	.....	.....	T.	3.0	4.7	4.8	16.6	7.0	0.2	36.3
Mascoutah	.....	.....	T.	1.0	.....	6.0	T.	.....	T.	7.0
Mount Carmel	.....	.....	2.3	0.2	.....	2.0	T.	.....	.....	4.5
New Burnside	.....	.....	T.	0.1	T.	0.9	T.	.....	T.	1.0
Peoria	.....	.....	2.5	1.9	5.4	1.5	3.7	1.6	1.0	16.7
Pontiac	.....	.....	2.0	6.0	9.0	2.6	4.0	1.3	T.	24.9
Rockford	.....	.....	T.	3.0	5.7	4.7	23.5	4.0	T.	40.9
Rushville	.....	.....	.....	1.0	3.0	2.0	T.	4.5	T.	10.5
Springfield	.....	.....	1.0	1.2	3.8	1.6	1.3	T.	T.	8.9
Urbana	.....	.....	1.3	2.0	6.6	4.0	T.	1.8	T.	15.7
Walnut	.....	.....	1.3	0.3	4.7	5.5	14.7	1.4	T.	27.9
White Hall	.....	.....	.....	1.0	2.5	1.0	0.5	T.	T.	5.0

Monthly and seasonal snowfall, 1922–23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Indiana.										
Angola			2.5	4.0	12.0	9.5	6.0	3.0	3.0	40.0
Bluffton			1.5	6.8	10.2	5.9	6.0	T.	3.0	33.4
Butlerville			0.5	T.	0.5	2.8	T.		2.5	6.3
Cambridge City			0.5	2.8	1.2	1.7	T.			6.2
Evansville			3.1	0.4	T.	0.5	T.			4.0
Fort Wayne			0.6	8.5	12.0	5.7	6.3	T.	1.5	34.6
Indianapolis			0.2	2.6	0.6	5.3	1.1	T.	1.2	11.0
Kokomo			T.	6.0	6.0	5.0	2.0	(*)	(*)	
La Fayette			T.	3.2	7.5	6.2	4.0		1.5	22.4
Marion			0.5	5.0	5.5	5.0	4.0	(*)	2.0	
Mauzy			1.0	3.0	1.6	5.0	1.7	T.	2.7	15.0
Richmond			0.9	4.1	2.1	1.9	1.4	T.	2.7	13.1
Royal Center			0.1	8.5	11.5	4.9	7.5	0.9	4.1	37.5
South Bend			1.0	4.8	8.9	6.0	2.1	1.1	2.5	26.4
Terre Haute			T.	1.6	0.1	4.1	0.2	1.0	0.1	7.1
Valparaiso			2.0	5.8	6.2	9.8	5.3	T.	3.7	32.8
Iowa.										
Alta				2.5	8.5	3.6	16.0	1.0		31.6
Belle Plaine			0.3	3.0	9.2	5.7	32.8	1.1	T.	52.1
Belmond		T.	T.	4.3	9.9	4.7	18.5	1.8	T.	39.2
Centerville				0.2	1.0	0.8	5.3	T.	T.	7.3
Charles City		T.	0.8	5.8	7.5	5.0	21.7	4.0	T.	44.8
Creston				1.0	1.0	1.0	23.0			26.0
Davenport			1.5	0.8	8.0	6.1	24.8	1.0	T.	42.2
Decorah			2.0	4.0	7.0	7.0	24.5	7.5	0.2	52.2
Denison		T.		1.0	13.6	2.5	13.0	T.		30.1
Des Moines			T.	1.9	7.8	2.7	25.3	T.	T.	37.7
Dubuque			1.2	3.4	4.5	4.8	20.8	1.0	T.	35.7
Forest City		T.	0.5	3.8	9.3	6.5	12.0	1.8		33.9
Guthrie Center				4.0	11.0	1.0	26.0			42.0
Humboldt		T.	T.	4.0	13.5	7.0	15.7	T.	T.	40.2
Independence		T.	1.0	2.0	5.5	4.1	25.6	2.3	T.	40.5
Indianola				2.0	5.1	4.6	20.7			32.4
Inwood			3.0	3.1	7.9		11.1	3.4		28.5
Iowa City			T.	0.5	6.5	7.5	16.0	T.		30.5
Iowa Falls			T.	2.5	9.0	5.4	21.6	4.7	T.	43.2
Jefferson		T.		2.5	11.0	2.5	19.5	T.	T.	35.5
Keokuk				1.3	7.3	0.8	6.3	T.	T.	15.7
Little Sioux				1.5	9.3	1.0	13.5	T.		25.3
Marshalltown		T.	T.	3.2	13.8	4.7	20.1	4.0	T.	45.8
Mason City		T.	0.2	5.5	8.0	4.3	28.0	2.0	T.	48.0
Milford (near)			T.	8.0	6.4	2.8	10.3	0.5		28.0
Mount Ayr				0.4	0.3	2.0	16.0	T.		18.7
Mount Pleasant				0.2	2.0	6.3	10.0	1.0	T.	19.5
Oakland				0.5	5.5	T.	18.0		T.	24.0
Oskaloosa		T.	T.	1.9	5.1	8.6	31.6	0.5	T.	47.7
Postville			1.0	4.0	5.5	6.5	13.0	5.0	T.	35.0
Sioux City			T.	0.7	7.9	0.8	16.3	0.7		26.4
Thurman				T.	T.	0.5	11.0		T.	11.5
Waterloo		T.	0.5	1.0	5.3	2.5	17.9	2.6		29.8
Kansas.										
Burlington						0.5	1.0			1.5
Colby			4.0	T.	T.	1.0	8.5	T.	T.	13.5
Columbus					T.	1.5	0.6			2.1
Concordia			T.		T.	1.8	4.6	1.4		7.8
Dodge City			T.	T.	0.1	0.2	3.7			4.0
Garden City			T.	T.		T.	3.0			3.0
Grenola						T.	T.			T.
Horton				0.2		2.0	7.0	T.		9.2
Hutchinson					T.	(*)	0.5	0.5		
Independence						T.	T.			T.
Iola				T.		0.2	1.4			1.6
Lakin		T.	T.				4.0	(*)		
Liberal										0.0
McPherson			T.			0.5	2.0	0.8		3.3
Manhattan					T.	2.5	2.4	1.2		6.1
Marion					(*)	T.	0.2	2.0		

Monthly and seasonal snowfall, 1922-23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Kansas—Continued.										
Medicine Lodge						0.5	T.			0.5
Minneapolis			T.			1.0	1.0	T.		2.0
Oketo				T.	0.8	2.0	2.8	2.0		7.6
Phillipsburg			1.0			1.8	10.7			13.5
Richfield			0.5	T.		2.5	5.5	(*)		
St. Francis			2.5	T.	0.2	1.0	2.8	1.5	T.	8.0
Sedan							1.0			1.0
Topeka				T.		1.2	3.3	T.		4.5
Wakeeney			T.		T.	3.0	8.0			11.0
Wellington							T.			T.
Wichita				T.	T.	T.	0.7			0.7
Kentucky.										
Beattyville			T.	T.	0.3	0.7	T.		T.	1.0
Berea			T.	0.2	T.	0.4	0.1		T.	0.7
Blandville						1.5				1.5
Bowling Green			T.			0.5	T.			0.5
Calhoun			T.		T.	0.6	T.			0.6
Earlington			T.		T.	1.2	T.		T.	1.2
Eubank			T.			1.0				1.0
Frankfort			T.	T.	T.	1.5	T.		T.	1.5
Greensburg			T.		T.	1.0			T.	1.0
Hopkinsville			T.			1.2				1.2
Junction City			0.5	T.	T.	2.0	T.		T.	2.5
Leitchfield			4.0	T.		1.0	T.		T.	5.0
Lexington			0.6	0.1	T.	1.9	0.1		0.5	3.2
Louisville			0.1	0.2	T.	0.8	T.		T.	1.1
Maysville			1.0	1.0		1.0			T.	3.0
Mount Sterling			T.	T.		2.2			T.	2.2
Owensboro			1.5		T.	1.5	T.		T.	3.0
Saint John			0.5		T.	3.1	T.		T.	3.6
Scott			1.0	0.2	T.	3.5	1.0		1.0	6.7
Taylorsville			T.	T.	T.	1.7	T.		T.	1.7
Williamsburg			T.	T.	T.	6.5	T.		T.	6.5
Louisiana.										
Alexandria							T.			T.
Amite										0.0
Bastrop						3.0				3.0
Baton Rouge						(*)				
Burrwood										0.0
Calhoun						3.5				3.5
Cheneyville						T.				T.
Clinton						T.				T.
Dodson						2.7				2.7
Franklin										0.0
Grand Cane						2.2				2.2
Lake Charles										0.0
Ludington						4.0				4.0
Minden						4.0				4.0
Monroe						(*)				
Newellton						5.0				5.0
New Orleans										0.0
Pearl River										0.0
Plain Dealing						4.0				4.0
Shreveport						3.1	T.			3.1
Stables	(*)					5.0				
Maine.										
Cornish		T.	0.5	32.0	42.0	15.0	24.0	3.0		116.5
Eastport		0.7	6.4	27.4	36.0	23.6	32.4	7.9		134.4
Farmington		3.0	2.0	36.0	52.0	20.0	26.0	2.0	T.	141.0
Gardiner			0.5	32.0	49.5	16.5	33.0	7.0		138.5
Greenville		1.2	10.4	27.4	40.4	21.5	29.4	5.4	1.2	136.9
Houlton		(*)	(*)	(*)	42.0	11.0	48.0	4.0		
Lewiston		T.	1.5	32.5	44.8	15.0	29.0	2.8		125.6
Madison		3.0	2.0	29.5	53.0	19.5	29.0	1.5		137.5
Millinocket			6.8	26.2	45.5	20.5	37.2	2.5		138.7

Monthly and seasonal snowfall, 1922-23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Maine—Continued.										
North Bridgton	.....	T.	2.0	30.5	56.0	9.5	22.0	3.0	.....	123.0
Orono	.....	0.8	0.2	28.7	42.5	20.0	31.0	4.0	.....	127.2
Portland	.....	.....	1.1	32.8	52.7	15.6	19.7	3.1	.....	125.0
Presque Isle	.....	.....	9.0	10.0	24.0	9.0	24.0	(*)	.....	.....
Rumford	.....	2.2	1.5	33.9	39.4	18.2	21.2	1.2	.....	117.6
Van Buren	.....	2.0	10.5	23.0	27.0	10.5	35.5	6.5	.....	115.0
Winslow	.....	1.5	0.5	24.2	35.5	18.5	27.0	3.5		110.7
Woodland	.....	T.	2.2	23.5	30.0	17.5	26.0	6.0	.....	105.2
Maryland.										
Aberdeen	.....	.....	T.	3.2	4.2	5.0	4.4	T.	.....	16.8
Annapolis	.....	.....	T.	1.2	4.1	4.0	5.5	T.	.....	14.8
Baltimore	.....	.....	T.	2.5	6.0	4.3	6.2	0.5	T.	19.5
Cheltenham	.....	.....	T.	1.0	3.7	9.7	5.5	T.	.....	19.9
Chesapeake City	.....	.....	T.	2.2	5.2	5.0	5.0	T.	.....	17.4
Chewsville	.....	.....	1.3	5.0	7.5	6.7	6.0	0.7	T.	27.2
Cumberland	.....	.....	2.3	6.7	16.4	6.8	(*)	(*)	0.5	.....
Frederick	.....	.....	0.8	4.0	7.2	8.0	7.1	1.6	T.	28.7
Great Falls	.....	.....	T.	1.8	4.8	4.0	5.0	1.5	T.	17.1
Oakland	.....	.....	3.2	10.0	16.6	13.2	12.5	1.2	2.5	59.2
Princess Anne	.....	.....	.....	1.0	T.	7.5	1.0	.....	.....	9.5
Solomons	.....	.....	.....	0.7	0.7	8.1	1.0	.....	.....	10.5
Sudlersville	.....	.....	T.	2.0	4.0	4.5	5.5	T.	.....	16.0
Western Port	.....	.....	1.0	5.5	14.0	9.5	10.0	2.5	T.	42.5
Massachusetts.										
Amherst	.....	.....	T.	18.0	33.0	12.5	8.0	T.	.....	71.5
Blue Hill	.....	.....	1.6	23.3	44.5	21.2	11.0	0.9	.....	102.5
Boston	.....	.....	0.9	14.7	28.0	14.4	10.6	T.	.....	68.6
Clinton	.....	.....	0.8	19.4	42.8	15.2	11.0	.....	.....	89.2
Concord	.....	.....	1.0	12.3	43.7	13.3	11.6	0.4	.....	82.3
Fall River	.....	.....	1.0	11.8	25.5	16.2	7.0	.....	.....	61.5
Fitchburg	.....	.....	0.5	21.8	41.5	16.0	14.0	T.	.....	93.8
Framingham	.....	.....	0.8	15.6	42.5	15.8	10.0	.....	.....	84.7
Lawrence	.....	.....	0.5	20.0	52.8	15.2	12.0	0.2	.....	100.7
Nantucket	.....	.....	T.	6.3	9.9	12.7	7.0	.....	.....	35.9
Plymouth	.....	.....	T.	21.5	8.0	14.8	14.0	.....	.....	58.3
Provincetown	.....	.....	T.	5.0	10.0	11.0	5.0	.....	.....	31.0
Rockport	.....	.....	.....	12.0	24.0	26.0	.....	.....	.....	62.0
Rutland	.....	.....	.....	32.9	44.3	16.1	16.9	.....	T.	110.2
Williamstown	.....	T.	0.6	22.3	39.0	16.2	18.3	2.5	.....	98.9
Worcester	.....	.....	0.6	24.7	40.0	13.8	11.1	.....	.....	90.2
Michigan.										
Adrian	.....	.....	0.5	9.6	10.2	6.0	3.5	1.5	4.0	35.3
Alma	.....	T.	2.0	6.5	16.4	5.5	9.3	3.0	12.0	54.7
Alpena	.....	T.	1.2	13.8	27.1	7.3	28.8	9.5	2.0	89.7
Ann Arbor	.....	.....	1.5	8.0	13.9	7.4	4.7	1.5	2.0	39.0
Battle Creek	.....	.....	1.0	8.0	11.0	9.0	1.0	2.0	6.0	38.0
Bergland	.....	2.6	11.6	22.1	23.4	18.5	26.9	9.2	10.5	124.8
Cadillac	.....	T.	2.5	4.5	15.5	10.5	41.0	2.3	2.2	78.5
Calumet	.....	1.8	5.2	49.5	48.5	27.0	35.5	6.5	0.2	174.2
Croton	.....	.....	T.	5.5	11.5	5.0	10.0	1.0	2.0	35.0
Detroit	.....	T.	1.4	14.2	15.6	9.0	4.7	6.0	6.0	56.9
East Tawas	.....	.....	4.2	19.7	22.2	7.7	24.4	6.6	4.0	88.8
Eloise	.....	.....	0.5	6.5	11.0	3.5	0.7	3.0	4.0	29.2
Escanaba	.....	T.	1.7	8.5	23.2	11.8	26.7	21.2	T.	93.1
Ewen	.....	3.5	5.5	16.0	29.5	9.5	29.0	9.0	11.0	113.0
Fife Lake (near)	.....	T.	5.0	5.5	15.0	9.0	22.5	5.5	T.	62.5
Frankfort	.....	.....	1.8	5.7	12.8	16.0	33.6	7.3	T.	77.2
Grand Haven	.....	.....	3.3	9.0	11.0	20.5	11.8	2.9	4.8	63.3
Grand Marais	.....	3.0	1.9	44.8	65.3	31.1	27.8	32.0	.....	63.3
Grand Rapids (Weather Bureau)	.....	T.	2.0	7.4	13.1	13.2	9.6	3.7	5.5	54.5
Grayling	.....	T.	6.5	11.5	17.6	6.5	31.5	1.0	0.2	74.8
Greenville	.....	.....	3.0	5.0	12.0	6.5	13.5	3.0	8.0	51.0
Harbor Beach	.....	T.	1.0	8.0	13.0	6.0	7.0	(*)	6.0	.....
Harrisville	.....	.....	1.0	7.0	25.0	8.0	29.0	6.0	2.0	78.0
Hillsdale	.....	.....	1.1	5.3	12.6	8.0	4.9	4.0	5.0	40.9

Monthly and seasonal snowfall, 1922-23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Michigan—Continued.										
Houghton	.....	1.4	6.0	27.3	22.2	19.7	24.5	4.7	0.5	106.3
Howell	.....	.....	1.6	4.0	9.9	3.7	6.8	1.5	5.0	32.5
Humboldt	.....	4.0	7.0	14.0	26.0	11.0	23.8	11.0	1.0	97.8
Iron Mountain	.....	1.0	3.0	16.8	18.4	3.9	13.0	14.0	0.5	70.6
Ironwood	.....	2.0	6.0	13.0	18.0	12.0	37.0	11.0	6.0	105.0
Ishpeming	.....	1.0	6.5	9.4	21.2	3.9	32.5	8.0	T.	82.5
Jackson (No. 1)	.....	.....	1.6	8.0	15.9	13.5	5.1	1.5	4.0	49.6
Kalamazoo (No. 1)	.....	.....	0.5	5.5	10.0	18.0	7.0	2.0	4.0	47.0
Lansing	.....	T.	3.5	4.3	16.3	11.0	12.7	3.1	11.5	62.4
Ludington	.....	T.	1.8	8.4	21.3	13.1	23.6	6.1	0.8	75.1
Luther	.....	T.	1.9	5.1	16.7	13.9	34.0	3.0	4.0	78.6
Mackinaw	.....	T.	2.5	7.5	31.5	5.9	22.0	14.5	.....	83.9
Marquette	.....	1.1	5.0	10.6	28.3	12.3	32.4	13.0	T.	102.7
Menominee	.....	.....	T.	3.2	18.9	13.5	27.0	15.0	4.5	82.1
Mio	.....	T.	1.5	10.0	19.5	9.5	37.0	11.0	2.0	90.5
Mount Clemons	.....	.....	0.1	6.0	5.5	6.0	1.5	T.	7.0	31.6
Munising	.....	0.8	7.3	19.6	30.8	14.7	37.1	15.8	T.	126.1
Muskegon	.....	T.	2.5	5.5	11.8	22.6	15.4	4.1	5.0	66.9
Newberry	.....	6.5	8.3	17.9	19.6	14.8	39.4	27.4	T.	133.9
Old Mission	.....	.....	3.5	7.0	21.4	7.1	31.8	17.1	0.6	88.5
Omer	.....	T.	2.5	7.0	16.0	9.0	19.0	4.0	3.0	60.5
Onaway (near)	.....	T.	1.6	15.2	26.0	16.5	52.0	11.5	0.5	123.3
Port Huron	.....	T.	2.4	4.7	19.8	9.0	6.5	2.6	6.5	51.5
Roscommon	.....	0.8	2.0	6.5	13.8	17.7	26.1	3.7	0.5	71.1
Saginaw (Weather Bureau)	.....	T.	2.5	3.4	10.5	4.9	9.3	1.4	9.0	41.0
St. James	.....	T.	3.0	4.5	16.0	10.2	14.0	14.5	T.	62.2
St. Joseph	.....	.....	1.2	7.0	12.0	20.0	12.5	0.5	1.0	64.2
Sault Ste. Marie	.....	5.1	6.8	23.5	18.0	10.0	27.1	15.2	.....	105.7
Sidnaw	.....	3.0	3.5	8.7	10.5	7.0	14.5	3.0	2.6	52.8
South Haven	.....	.....	1.0	12.0	6.0	14.0	3.5	1.4	3.5	41.4
Wascpi	.....	.....	T.	6.0	16.8	10.2	3.3	2.7	2.8	41.8
Webber Dam	.....	.....	1.0	2.9	11.5	5.5	3.8	3.8	8.0	36.5
Whitefish Point	.....	2.0	4.8	32.6	42.6	31.2	52.0	22.5	.....	187.7
Ypsilanti	.....	.....	0.8	8.5	13.0	7.7	3.6	3.0	4.0	40.6
Minnesota.										
Albert Lea	.....	.....	T.	3.0	6.0	5.0	22.0	8.0	.....	44.0
Alexandria	.....	.....	T.	1.5	7.0	9.0	0.5	2.0	T.	20.0
Argyle	.....	.....	5.2	12.8	5.5	8.8	6.0	11.2	.....	49.5
Baudette	.....	.....	5.2	22.5	18.7	6.2	15.5	5.5	1.0	74.6
Cloquet	.....	.....	3.0	13.6	23.5	2.6	14.0	1.7	.....	58.4
Collegeville	.....	1.4	0.7	2.4	10.3	2.9	3.0	4.0	T.	24.7
Detroit	.....	T.	1.0	15.7	3.0	15.0	1.3	4.0	T.	40.0
Duluth	.....	.....	5.6	12.0	22.2	10.0	15.7	1.7	0.8	68.0
Fairmont	.....	.....	T.	5.0	6.3	1.2	9.2	2.5	0.2	24.4
Fergus Falls	.....	1.8	5.6	8.3	17.0	15.9	4.3	7.2	.....	60.1
Fort Ripley	.....	T.	2.0	2.8	10.0	10.0	3.0	4.5	.....	32.3
Grand Meadow	.....	.....	1.5	2.5	7.0	4.5	21.0	5.3	0.5	42.3
Grand Rapids	.....	T.	2.0	12.9	12.6	3.8	7.5	0.1	T.	38.9
Hallock	.....	T.	3.0	8.0	6.2	5.5	5.0	10.8	(*)	.....
International Falls	.....	(*)	3.0	18.0	15.0	8.0	7.0	(*)	.....	.....
Itasca State Park	.....	.....	4.0	14.0	12.5	10.5	7.0	3.0	T.	51.0
Leech Lake Dam	.....	T.	6.0	16.8	12.8	9.8	8.5	0.7	T.	54.6
Lynd	.....	T.	1.0	4.0	11.2	2.0	4.0	6.0	.....	28.2
Mapleplain	.....	1.5	1.1	1.8	15.3	7.7	13.7	14.9	1.2	57.2
Meadowlands	.....	T.	2.5	8.5	14.6	3.6	10.4	(*)	.....	.....
Minneapolis (Weather Bureau)	.....	0.4	0.8	1.7	11.8	4.2	11.8	11.0	0.5	42.2
Montevideo	.....	1.0	.....	1.0	11.5	4.7	12.0	5.0	T.	35.2
Moorhead	.....	0.3	3.9	6.5	6.0	5.9	4.4	3.3	T.	30.3
Mora	.....	1.0	2.0	4.5	15.7	6.2	4.2	4.7	0.2	38.5
Morris	.....	.....	T.	11.0	25.5	23.0	5.0	6.5	.....	71.0
New London	.....	.....	T.	1.0	12.0	7.0	6.0	8.0	T.	34.0
Norden	.....	1.4	3.4	23.8	14.3	9.5	10.9	2.1	0.4	65.8
Pine River Dam	.....	(*)	2.7	7.9	14.8	5.8	4.3	1.3	T.	.....
Pokegama Falls	.....	T.	4.9	12.3	16.4	4.4	8.4	0.6	0.4	47.4
Red Lake	.....	.....	7.2	15.8	8.2	11.3	4.5	(*)	.....	.....
Red Lake Falls	.....	T.	6.0	18.5	6.0	8.5	3.2	1.0	.....	43.2
Redwood Falls	.....	T.	0.2	2.5	10.8	7.5	10.0	6.0	0.5	37.5
Roseau	.....	T.	4.5	12.5	5.0	4.5	7.0	4.0	T.	37.5

Monthly and seasonal snowfall, 1922-23—Continued.

Stations.	1922				1923					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Minnesota—Continued.										
St. Paul		T.	1.5	2.0	12.9	6.4	14.1	11.0	1.0	48.9
St. Peter			0.1	4.4	11.9	3.5	9.2	4.4	T.	33.5
Sandy Lake Dam		T.	2.0	8.0	18.5	5.0	7.0	T.		40.5
Thief River Falls		1.0	4.7	12.3	3.9	4.2	4.3	4.7	T.	35.1
Tracy		T.	2.5	5.0	8.2	1.5	15.5	7.0	0.5	40.2
Two Harbors			1.0	14.0	41.3	10.0	15.0	0.5	1.5	83.3
Virginia		T.	4.1	11.2	10.5	3.6	9.2	T.	0.5	39.1
Winnibigoshish		(*)	3.5	13.3	16.5	7.0	5.7	2.5	(*)	
Winona		T.	0.2	4.1	10.8	7.7	15.0	2.9	0.5	41.2
Worthington			(*)	6.0	3.8	T.	16.0	(*)		
Zumbrota		T.	2.0	3.0	9.5	3.0	5.8	1.0	2.0	26.3
Mississippi.										
Aberdeen							T.			T.
Agricultural College						4.1				4.1
Anguilla						6.0				6.0
Austin						3.0				3.0
Bay St. Louis										0.6
Booneville				T.		4.0				4.0
Brookhaven						T.				T.
Canton						3.2				3.2
Columbus						5.0	T.			5.0
Corinth						6.0				6.0
Duck Hill						5.0	T.			5.0
Fayette						2.5				2.5
Fulton						3.3				3.3
Hattiesburg										0.0
Hernando						5.5				5.5
Holly Bluff						6.0				6.0
Holly Springs						10.0	T.			10.0
Jackson						1.4				1.4
Kosciusko						2.1				2.1
Macon			T.			2.5				2.5
Meridian			T.							T.
Moorhead						4.0				4.0
Natchez										0.0
Pontotoc						8.0				8.0
Rosedale						10.5				10.5
Swan Lake						6.7				6.7
Tupelo						2.6	T.			2.6
University						7.0	T.			7.0
Vicksburg						6.0				6.0
Water Valley						5.0				5.0
Woodville										0.0
Yazoo City						3.5				3.5
Missouri.										
Arcadia			T.	T.		1.4	T.			1.4
Bethany				1.0	1.0	1.3	7.1			10.4
Caruthersville						1.0				1.0
Columbia				0.3	T.	1.3	0.8	1.7	T.	4.1
Dean						T.				T.
Doniphan					1.0	T.				1.0
Eldon						5.0	T.		T.	5.0
Hannibal				0.5	2.4	0.7	1.2	5.0	T.	9.8
Harrisonville						2.2	2.4			4.6
Hollister						2.0				2.0
Houston				T.		1.0				1.0
Jackson			T.	T.		0.5				0.5
Kansas City				0.6	T.	1.2	2.7	T.		4.5
Kidder				T.	3.0	0.5	5.1			8.6
Kirksville				0.5	4.5	0.5	5.5			11.0
Koshkonong						T.				T.
Lebanon						2.0	T.			2.0
Lexington				0.5	0.3	1.2	1.7		T.	3.7
Macon				0.5	1.5	0.6	2.5	T.	T.	5.1
Marshall				T.	T.	1.2	2.0	2.0		5.2
Maryville				0.2	0.5	0.2	12.0		T.	12.9

Monthly and seasonal snowfall, 1922-23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Missouri—Continued.										
Mexico				1.5	0.2	1.0	0.2	1.5	T.	4.4
Nevada						0.5	T.			0.5
Poplar Bluff					T.	T.				T.
Rolla				T.		0.5	0.1			0.6
St. Joseph				0.2	0.6	0.6	5.0	T.	T.	6.4
St. Louis (Weather Bureau)			T.	0.5		5.1	0.1	T.	T.	5.7
Springfield				T.		4.3	0.1			4.4
Tarkio				0.5	0.8	1.2	17.2			19.7
Unionville				T.	1.0	0.5	9.0	T.		10.5
Warrenton			T.	1.0	T.	3.0	0.5	T.	T.	4.5
Warsaw					T.	4.0	2.0	3.0		9.0
Montana.										
Adel		6.0	30.0	23.0	7.0	61.0	32.0	16.0	2.0	177.0
Agricultural College			20.5	14.0	4.1	(*)	(*)	(*)		
Anaconda			8.4	19.1	7.4	9.6	5.2	4.8	T.	54.5
Augusta		1.0	10.0	11.0	3.5	12.0	9.5	20.5		67.5
Ballantine		5.5	6.0	6.8	1.5	1.1	3.4	2.7		27.0
Belton		T.	9.0	(*)	45.2	(*)	(*)	(*)	1.0	
Biddle		10.0	6.2	8.9	1.0	4.0	8.0	8.0		46.1
Big Ox			10.0	31.0	5.0	16.0	14.0	7.0		83.0
Bigtimber			25.0	8.0	1.0	8.0	12.0	15.0	T.	69.0
Billings			14.2	3.8	1.5	7.7	10.0	(*)		
Brenner	T.	T.	16.7	17.0	9.5	8.4	18.1	24.0	T.	[6] 93.7
Bridger		2.0	9.0	3.0		5.2	6.5	1.5		27.2
Broadus		8.0	0.2	6.0	1.0	1.9	4.0	6.0		27.1
Browning		T.	2.0	6.5	1.0	5.0	11.0	10.0	T.	35.5
Busby		1.0	6.5	7.4	0.7	5.0	4.0	0.5		25.1
Busteed		1.0	17.2	6.1	1.4	2.8	12.1	11.5		52.1
Butte		0.2	10.9	8.8	4.0	6.9	10.5	5.5	(*)	
Carter		T.	2.1	16.0	6.0	14.0	(*)	2.0	T.	
Cascade		T.	15.0	15.8	5.5	13.9	8.1	10.0		68.3
Columbia Falls			4.0	22.4	11.2	19.5	6.7	T.	1.5	65.3
Conrad		1.0	4.0	5.0	1.0	9.0	5.0	17.0		42.0
Copper		5.0	14.0	22.0	9.1	11.5	7.4	(*)	1.0	
Crow Agency		4.0	6.5	10.5	1.0	7.0	5.5	3.0		37.5
Culbertson		0.2	0.5	2.1	1.6	1.2	4.7	3.8	T.	14.1
Cut Bank		1.5	1.0	4.5	2.5	1.0	1.7	5.7	3.0	20.9
Dayton			4.5	14.0	(*)	7.5	2.0			
Deer Lodge			1.5	12.0	T.	1.0	1.0		T.	15.5
Denton		T.	10.2	13.0	5.5	10.0	9.0	6.0	T.	53.7
Dillon		T.	11.2	11.0	4.5	11.0	9.5	9.0	1.0	57.2
Dunkirk			0.5	6.5	4.5	6.4	1.3	1.0		20.2
East Anaconda	T.	1.0	13.1	17.5	5.0	8.4	4.9	9.3	0.6	59.8
Findon		T.	6.9	19.2	6.7	8.0	7.8	16.1	T.	64.7
Flathead Creek		5.0	14.5	12.5	7.0	4.0	18.0	3.0	1.0	65.0
Flatwillow		T.	14.0	6.9	(*)	(*)	3.4	4.5	T.	
Fortine			8.0	20.0	9.5	15.0	3.5	1.0	(*)	
Fort Shaw			5.0	8.0	T.	5.0	(*)	6.0		
Garland		3.0	T.	4.0	2.9	0.2	1.7	3.0		14.8
Geraldine			14.9	15.7	5.0	11.0	7.2	11.5	0.2	65.5
Glasgow			1.9	2.9	7.4	3.9	(*)	2.8		
Goldbutte			0.5	5.0	10.5	12.5	2.0	2.5	T.	33.0
Great Falls			4.3	13.5	3.7	15.9	8.0	11.8	T.	57.2
Haugan			0.7	42.3	44.4	18.1	9.7	0.5		[6] 115.7
Havre			4.8	5.3	8.9	3.2	1.1	5.7		29.0
Hebgen Dam		5.0	12.0	41.0	33.5	13.0	28.0	22.0	T.	[15] 156.5
Helena		T.	13.0	19.3	1.9	7.0	7.7	14.2	T.	63.1
Heron			2.0	70.5	34.7	8.5	7.0			122.7
Highwood			5.0	15.0	7.8	22.5	5.1	9.5	T.	64.9
Hobson		0.5	15.5	10.7	4.2	10.0	14.0	9.0		63.9
Holter			9.5	14.0	1.0	18.0	3.0	10.0		55.5
Kalispell			5.3	11.4	3.6	8.9	2.6	1.1	T.	32.9
Kinread			3.0	5.0	5.5	3.5	T.	5.8	T.	22.8
Knobles Ranch	(*)	0.5	5.0	14.0	12.0	(*)	5.0	(*)	(*)	
Knowlton		7.5	0.5	5.0	6.5	1.0	3.5	4.0		28.0
Lewistown		1.5	12.2	13.6	6.7	18.5	T.	(*)		
Libby			0.1	48.0	17.0	11.0	0.2	3.0		79.3

[6] Trace in June, 1923.

[15] Includes June, 1923: Hebgen Dam, 2.0.

Monthly and seasonal snowfall, 1922–23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Montana—Continued.										
Livingston	.....	T.	12.5	7.0	T.	6.2	6.5	21.9	T.	54.1
Lustre	.....	1.5	2.0	3.8	6.6	3.2	4.4	5.0	0.5	27.0
Lytle	.....	0.5	4.0	4.0	3.2	6.5	2.5	7.5	T.	28.2
Malta	.....	.....	3.0	6.6	1.8	6.3	1.3	2.6	.....	21.6
Melstone	.....	.....	(*)	8.3	2.0	(*)	(*)	(*)	(*)	.....
Mildred	.....	2.0	T.	3.0	2.0	1.0	0.5	1.5	.....	10.0
Miles City	.....	T.	0.5	7.6	3.2	1.6	0.4	7.0	.....	20.3
Missoula	.....	.....	4.3	15.3	6.0	9.7	8.4	0.4	.....	44.1
Norris	.....	2.0	19.0	10.2	5.4	13.5	25.0	8.9	.....	84.0
Ovando	.....	.....	2.1	16.2	25.7	12.1	13.5	7.0	T.	76.6
Paxton	.....	.....	1.5	2.3	5.0	3.5	0.5	1.0	T.	13.8
Philipsburg	T.	0.2	7.6	(*)	(*)	11.6	9.0	6.7	T.	([6])
Pinegrove	.....	5.0	19.0	8.0	5.8	15.1	12.8	6.0	T.	71.7
Plevna	.....	6.2	1.9	(*)	2.5	(*)	5.7	4.5	.....	.....
Poplar	.....	T.	3.0	9.0	10.8	7.0	2.7	7.2	0.3	40.0
Red Lodge	.....	15.0	36.0	4.0	3.5	14.0	38.5	30.5	5.0	146.5
Renova	.....	.....	6.2	4.5	T.	4.7	2.5	T.	T.	17.9
Rock Springs	.....	0.5	3.6	(*)	(*)	4.6	1.0	2.5	.....	.....
Roundup	.....	1.0	3.0	4.0	1.8	(*)	(*)	(*)	(*)	.....
Saint Ignatius	.....	.....	5.5	18.8	1.0	10.3	6.7	6.0	.....	48.3
Savage	.....	4.2	3.5	6.6	13.5	6.7	5.7	3.1	.....	43.3
Scobey	.....	.....	(*)	2.5	5.0	5.5	2.7	4.0	1.0	.....
Sentinel Butte Pass	.....	T.	3.7	12.2	5.2	3.0	1.5	5.0	.....	30.6
Snowbelt	.....	0.3	3.8	8.5	5.4	(*)	1.4	12.9	.....	.....
Springbrook	.....	T.	3.1	13.0	8.5	8.0	4.0	5.3	T.	41.9
Stevensville	.....	.....	5.0	18.0	4.6	7.4	9.0	T.	.....	44.0
Sun River Canyon	.....	(*)	7.0	14.5	(*)	(*)	(*)	(*)	(*)	.....
Sunset Orchard	.....	.....	9.0	13.0	4.0	10.5	13.0	5.0	.....	54.5
Thompson Falls	.....	.....	T.	19.5	14.0	6.0	12.5	.....	.....	52.0
Upper Yaak River	1.0	2.0	1.0	35.5	10.6	12.0	4.7	1.2	0.7	68.7
Utica	.....	4.0	13.0	11.0	3.5	9.8	10.5	6.5	T.	58.3
Valier	.....	0.2	2.2	5.6	1.4	3.9	1.5	10.0	1.5	26.3
Victor	.....	.....	3.5	(*)	(*)	10.0	(*)	4.5	.....	.....
Virginia City	.....	3.0	7.0	11.0	8.0	9.0	7.0	18.5	2.0	65.5
Wheaton	.....	0.5	9.5	5.0	2.5	2.0	5.0	9.0	.....	33.5
White Sulphur Springs	.....	T.	12.0	14.5	2.1	4.5	2.0	13.0	T.	48.1
White Water	.....	T.	4.0	5.0	6.5	1.3	4.0	5.5	4.0	30.3
Wibaux	.....	5.0	5.0	12.0	12.5	12.0	14.0	6.9	.....	67.4
Winifred	.....	.....	11.5	22.0	7.0	5.8	1.4	9.0	.....	56.7
Nebraska.										
Ainsworth	.....	T.	7.5	9.0	8.5	T.	18.5	T.	T.	43.5
Albion	.....	T.	4.0	3.0	10.0	2.0	9.0	T.	.....	28.0
Alliance	.....	.....	7.0	5.5	5.0	8.3	8.5	14.0	.....	48.3
Alma	.....	.....	.....	.....	2.0	1.0	3.0	.....	.....	6.0
Auburn	.....	.....	.....	0.5	2.0	2.0	7.0	.....	.....	11.5
Beatrice	.....	(*)	(*)	1.0	2.8	2.2	9.5	.....	.....	.....
Brewster	.....	.....	9.0	0.5	4.5	0.5	9.0	T.	T.	23.5
Broken Bow	.....	.....	7.0	0.5	1.5	1.0	9.0	3.0	.....	22.0
Chadron	.....	T.	12.5	8.9	2.8	8.5	13.6	9.9	2.0	58.2
Clay Center	.....	.....	.....	T.	4.0	1.0	5.5	.....	.....	10.5
Columbus	.....	T.	.....	0.5	9.0	2.0	10.0	T.	.....	21.5
Culbertson	.....	.....	4.0	.....	.....	3.2	6.5	.....	.....	13.7
David City	.....	.....	.....	1.0	7.9	1.2	19.5	0.5	.....	30.1
Drexel	.....	T.	.....	1.0	7.7	0.8	28.0	T.	.....	37.5
Fairbury	.....	.....	.....	T.	0.7	1.0	7.5	2.0	.....	11.2
Fremont	.....	.....	.....	0.7	7.2	0.2	24.0	.....	.....	32.1
Gosper	.....	.....	1.5	.....	1.5	1.5	4.0	0.5	.....	9.0
Hartington	.....	T.	3.0	1.5	6.5	0.5	14.0	T.	.....	25.5
Hay Springs	.....	T.	14.0	10.0	4.0	5.0	11.0	27.0	.....	71.0
Hebron	.....	.....	.....	.....	1.0	1.0	10.0	.....	.....	12.0
Hillside	.....	.....	6.0	.....	0.5	3.0	6.1	3.0	1.0	19.6
Kimball	.....	.....	7.0	6.0	2.0	7.0	11.5	8.5	0.5	42.5
Lincoln (Weather Bureau)	.....	.....	.....	0.2	1.2	0.7	16.4	T.	.....	18.5
Minden	.....	.....	2.0	T.	0.3	1.0	9.5	2.0	.....	14.8
Nenzel	.....	T.	6.0	7.5	3.8	1.0	10.0	0.2	T.	28.5
North Loup	.....	.....	9.2	0.2	4.7	0.6	8.2	0.5	.....	23.4
North Platte	.....	.....	5.5	0.1	1.2	2.2	3.5	3.5	T.	16.0

[6] Trace in June, 1923.

Monthly and seasonal snowfall, 1922–23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Nebraska—Continued.										
Oakdale			6.0	0.1	5.2	0.6	12.5	T.	T.	24.4
Omaha		T.		0.5	7.6	0.7	28.8	T.		37.6
O'Neill		T.	18.0	1.0	6.0	1.0	15.0			41.0
Oshkosh			3.0		2.0	1.5	11.0	4.0		21.5
Pawnee City				T.	0.5	2.0	5.4	1.0		8.9
Ravenna			4.5	T.	3.2	1.7	9.7	2.5		21.6
Scottsbluff		T.	11.5	1.6	0.8	4.6	4.4	11.1	0.1	34.1
Stanton			T.	1.3	5.0	0.9	21.2	T.		28.4
Valentine		T.	5.9	6.7	7.1	1.4	10.8	0.7		32.6
Wakefield			T.	0.5	8.5	T.	14.5	T.		23.5
West Point				1.0	12.0	1.0	25.0	T.		39.0
York			T.	1.2	4.9	2.0	20.5	T.		28.6
Nevada.										
Alamo			1.5	(*)	1.5	7.2	1.0			
Arthur			13.3	25.8	9.4	6.6	4.9	15.4	5.8	81.2
Austin		T.	13.5	19.3	12.3	5.0	5.0	(*)		
Beatty			T.	0.3	3.0					3.3
Beowawe		(*)	(*)	(*)	6.0	5.0	1.8	(*)		
Elko			7.0	(*)	5.0	6.0	2.0	T.	T.	
Eureka		3.0	12.0	17.5	22.4	12.0	6.1	(*)	4.5	
Fallon			6.0	3.7	(*)	4.0		T.		
Gerlach			T.	7.5	10.0			(*)		
Golconda			1.0	3.5	5.5			(*)	(*)	
Gold Creek		1.3	11.0	33.2	19.3	8.2	10.4	15.0	4.0	102.4
Goldfield			1.0	(*)	8.0			(*)		
Hylton		T.	4.0	19.0	5.0	6.0	5.0	16.0	8.0	63.0
Imlay			3.0	2.0	10.0	0.5				15.5
Jungo		(*)	3.0	(*)	5.0	2.0	T.	(*)		
Lahontan			1.5	3.9	3.5	6.0				14.9
Lamoille		T.	7.8	16.8	8.4	6.3	11.8	17.5	(*)	
Las Vegas										0.0
Logandale						2.5				2.5
McGill		T.	7.1	12.7	23.5	6.0	3.6	3.2	1.1	57.2
Mahoney Ranger Station		1.0	7.0	(*)	15.0	14.4	13.0	(*)	8.0	
Millet			(*)	(*)	4.0	T.	(*)			
Mina					4.5	2.0	T.			6.5
Minden			7.0	(*)	13.5	2.0	3.0			
Montello			11.0	11.0	6.0	4.0	T.	T.	1.0	33.0
North Fork			12.0	12.0	6.0	4.0	4.0	3.5		41.5
Owyhee	(*)	(*)	(*)	(*)	(*)	7.0	(*)	9.0	14.0	
Paradise Valley		T.	2.5	20.0	14.0	4.6	T.	1.0	T.	42.1
Rebel Creek		(*)	2.0	8.0	9.8	T.	T.	T.	3.0	
Reno			8.5	11.2	22.9	4.9	3.6	0.7	T.	[6] 51.8
Rye Patch			3.0	6.5	8.0	T.			(*)	
Sand Pass				6.3	6.5	2.0	T.	T.	T.	14.8
San Jacinto			3.0	8.5	8.0	1.5	T.	T.		21.0
Schurz			2.0	4.0	2.9	3.0	2.0	T.		13.9
Searchlight			T.		(*)	5.0	1.0			
Sharp		1.0	10.0	3.0	21.0	8.0	3.0	(*)		
Smith			6.0	(*)	5.2	5.0	2.5	4.0		
Sulphur			2.0	(*)	12.5	7.0	T.	T.	T.	
Tonopah			1.0	3.3	12.5	7.0	0.4	3.8	T.	[6] 28.0
Tuscarora (near)		1.5	16.0	21.0	7.2	11.0	10.0	10.5	5.0	82.2
Vya		T.	8.5	22.0	8.0	7.0	3.0	2.0	2.0	[16] 53.5
Winnemucca			2.6	11.1	11.3	2.5	0.6	0.7	T.	28.8
Yerington			8.0	5.0	6.0	5.0	3.0	(*)		
New Hampshire.										
Berlin		1.5	0.9	33.4	34.0	15.3	20.9	4.5	T.	110.5
Bethlehem		T.	6.0	22.0	21.5	(*)	12.5	3.0		
Concord			T.	19.5	33.2	13.5	12.4	0.7		79.3
Durham			0.8	21.2	30.5	17.8	18.0	1.2		89.5
Franklin			T.	20.0	39.0	16.0	21.0	4.5		100.5
Hanover		T.	0.7	26.4	20.7	15.9	22.9	1.1	T.	87.7
Keene			0.7	21.2	34.1	16.1	11.2	0.3		83.6
Pittsburg (a)		9.7	17.5	28.7	39.6	30.1	39.8	6.2	T.	171.6
Plymouth		T.	1.5	30.1	44.2	20.0	25.0	1.0	T.	121.8

[6] Trace in June, 1923.

[16] Includes June, 1923: Vya, 1.0.

Monthly and seasonal snowfall, 1922–23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
New Jersey.										
Atlantic City			T.	5.0	4.1	7.4	5.1	T.		21.6
Bridgeton				1.5	4.5	5.5	5.0	T.		16.5
Cape May				0.8	1.1	11.5	7.5	T.		20.9
Dover			0.6	5.5	29.5	17.5	8.0	T.	T.	61.1
Flemington			T.	8.5	20.0	14.5	7.0	T.		50.0
Indian Mills			T.	8.0	7.0	9.2	4.0	2.0		30.2
Layton			0.7	13.5	32.8	23.7	8.2		T.	78.9
Long Branch			0.3	7.3	12.1	14.6	6.4	0.6		41.3
Newton		T.	0.5	8.6	28.0	17.5	6.5			61.1
Plainfield			0.3	9.8	27.2	16.3	7.8	T.	T.	61.4
Ridgefield			1.0	11.2	26.9	22.0	8.2	T.		69.3
Sandy Hook			0.3	4.2	10.9	9.6	4.6	T.		29.6
South Orange		T.	0.5	9.5	23.5	24.5	11.0	T.		69.0
Trenton			T.	7.5	12.8	14.1	4.8	1.7		40.9
New Mexico.										
Abbott			7.5			7.5	2.0	T.		17.0
Agricultural College						1.5				1.5
Albuquerque			(*)		1.0	4.0	9.0			
Alma		T.	T.			T.				T.
Ancho		T.	4.0		3.0	9.5	1.0	1.0		18.5
Aspen Grove Ranch		2.0	25.0	24.5	7.0	28.0	25.0	5.0	1.0	117.5
Aurora			17.0	2.0	2.5	7.5	12.5	16.0		57.5
Barton		T.	12.5	2.0	3.5	10.8	21.5			50.3
Bateman's Ranch	T.	2.1	21.5	17.6	14.0	12.3	23.9	17.6	3.0	112.0
Bell Ranch			4.0			4.0	4.0			12.0
Black Lake		T.	14.0	4.0	2.0	4.0	14.0	4.0		42.0
Blackrock		T.	10.2	T.	3.8	6.5	9.2	1.0		30.7
Bloomfield		T.	14.5	T.	1.0	0.8	2.5	T.		18.8
Campana			2.0	1.0		8.0	3.0			14.0
Capitan		T.	3.0		T.	12.0	5.0	T.		20.0
Carlsbad						2.5				2.5
Chama		T.	28.0	18.0	12.5	18.0	21.0	2.0	(*)	
Cimarron (near)		T.	6.0			6.0	5.2	1.8		19.0
Clayton			3.0	2.0		7.0	6.0			18.0
Cloudcroft		3.0	13.5	1.0	16.0	31.0	20.5	6.0	T.	91.0
Cloverdale Ranger Station		T.	4.0			8.0				12.0
Clovis			T.	T.		1.0	2.0			3.0
Corona			7.2		3.0	16.0	T.			26.2
Crown Point	(*)	T.	9.0	T.	(*)	(*)		(*)		
Cuervo			3.0			13.0	2.2			18.2
Des Moines			4.5	2.0		5.0	15.7	(*)		
Dulce		3.5	22.5	12.0	12.5	14.5	13.5	3.5	(*)	
Duran		T.	8.8		1.5	15.0	2.0			27.3
Elephant Butte Dam			T.			(*)				
Elizabethtown		2.0	12.0	7.0	9.0	10.5	18.0	6.5		65.0
Elk (near)			3.0			9.0	T.			12.0
Espanola			1.0		0.5	2.8	3.0			7.3
Fort Bayard		1.0	7.0		T.	0.2	T.			8.2
Fort Stanton			2.0		T.	10.0				12.0
Gallup		3.0	18.7	4.0	6.0	7.5	3.5	T.		42.7
Glorieta Ranch						1.0	(*)			
Harvey's Upper Ranch		2.5	44.0	5.0	5.0	37.0	37.0	27.8	11.0	169.3
Haynes			14.1	4.5	3.5	5.1	9.5	2.0		38.7
Hermosa		T.	8.0			6.0				14.0
Hobbs						3.0	T.			3.0
Hope	(*)				T.	11.0				
Jemez Springs		1.0	16.3	0.3	1.1	9.0	5.4	0.5		33.6
Las Vegas			13.1	T.		6.9	13.0			33.0
Lordsburg						1.5				1.5
Los Lunas (near)			5.0		0.5	0.2	1.0			6.7
Maxwell (near)			6.0			1.5	2.0			9.5
Mineral Hill	(*)	(*)	14.0		T.	20.0	18.0	T.		
Montoya			5.5			12.5	3.0			21.0
Mosquero			4.5	1.0		6.5	2.8			14.8
Mountain Park		T.	4.0	T.	1.0	6.5	8.5	4.0		24.0
Nara Visa			T.			2.0	1.0			3.0
Newman						0.5				0.5

Monthly and seasonal snowfall, 1922-23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
New Mexico—Continued.										
Nogal (near)	.....	T.	8.0	.....	8.0	28.5	8.5	0.5	.....	53.5
Palma	.....	.....	8.0	.....	T.	12.0	(*)	.....	.....	.....
Palo Verde	.....	.....	8.0	T.	.....	7.6	4.5	.....	.....	20.1
Pastura	.....	.....	7.0	.....	1.0	9.0	3.0	.....	.....	20.0
Pinon (near)	.....	.....	4.5	.....	.....	9.0	T.	.....	.....	13.5
Pinos Altos (near)	.....	3.0	18.0	.....	4.0	26.0	11.2	1.0	.....	63.2
Plainview (near)	.....	.....	.....	.....	.....	3.0	.....	.....	.....	3.0
Raton (near)	.....	T.	2.0	T.	.....	2.0	2.0	1.5	.....	7.5
Red River Canyon	.....	8.0	22.0	12.0	10.0	21.0	37.0	14.0	1.0	125.0
Regina	.....	2.0	19.0	0.5	5.0	6.0	7.5	4.0	.....	44.0
Richland (near)	.....	.....	.....	.....	T.	2.0	T.	.....	.....	2.0
Rociada	.....	.....	20.0	T.	(*)	10.5	(*)	1.0	T.	.....
Roswell	.....	.....	.....	.....	.....	8.4	T.	.....	.....	8.4
Santa Fe	.....	1.8	8.8	T.	1.3	2.3	17.7	4.8	0.3	37.0
Santa Rosa	.....	.....	T.	.....	.....	11.5	5.0	.....	.....	16.5
Schuster Springs Ranger Station	.....	10.0	31.5	2.5	9.0	15.0	9.5	14.0	6.0	97.5
Senoritô (near)	.....	1.5	38.0	4.0	7.0	7.0	23.0	10.0	1.0	91.5
Silver City	.....	0.6	8.5	.....	(*)	0.5	(*)	.....	.....	.....
Tajique (near)	.....	1.0	20.1	1.2	3.8	27.2	12.5	1.8	.....	67.6
Taos Canyon	.....	4.0	23.5	6.3	14.0	10.0	20.1	10.2	.....	88.1
Tres Piedras	.....	1.0	16.5	5.5	2.0	13.0	11.5	1.0	.....	50.5
Truchas	.....	2.0	17.0	0.5	5.0	5.0	19.5	4.0	3.0	56.0
Tucumcari (near)	.....	.....	T.	.....	.....	7.0	4.5	.....	.....	11.5
Tularosa	.....	.....	0.2	.....	.....	(*)	.....	.....	.....	.....
Weed Ranger Station	.....	1.0	4.2	.....	0.4	10.5	7.5	T.	.....	23.6
White Oaks (near)	.....	.....	7.5	.....	1.0	17.5	14.0	1.0	.....	41.0
Winsor's Ranch	.....	T.	26.0	3.0	T.	11.5	22.0	18.0	(*)	.....
New York.										
Addison	.....	.....	1.4	7.8	24.1	6.6	6.7	0.6	0.5	47.7
Albany	.....	.....	T.	17.1	34.6	9.6	5.8	0.5	T.	67.6
Auburn	.....	.....	7.2	20.5	34.9	19.4	22.5	0.8	1.1	106.4
Bedford Hills	.....	.....	1.5	19.0	37.0	25.0	9.5	.....	T.	92.0
Binghamton	.....	T.	1.5	9.9	28.1	13.7	7.5	0.2	T.	60.9
Bolivar	.....	T.	6.5	15.0	47.5	26.0	10.0	T.	6.0	111.0
Brockport	.....	T.	2.0	26.5	43.5	15.5	22.0	2.0	1.5	113.0
Buffalo	.....	T.	3.1	16.6	22.6	8.4	10.5	0.2	2.2	63.6
Canton	.....	0.7	1.7	9.1	21.4	15.4	17.4	2.1	2.0	69.8
Dannemora	.....	7.0	5.5	27.7	31.8	21.9	24.8	T.	.....	118.7
De Ruyter	.....	T.	3.7	15.0	36.0	16.6	15.5	0.5	0.6	87.9
Elmira	.....	T.	2.5	10.3	25.9	12.0	8.5	0.6	T.	59.8
Fredonia	.....	.....	5.0	19.1	13.8	11.2	11.8	1.1	3.0	65.0
Geneva	.....	T.	1.5	21.0	36.0	13.0	18.0	T.	.....	89.5
Glens Falls	.....	.....	T.	24.0	40.0	14.5	28.0	T.	T.	106.5
Gloversville	.....	T.	2.2	28.3	36.5	19.8	25.9	0.5	0.5	113.7
Hudson	.....	T.	0.2	22.3	36.0	15.0	11.0	T.	.....	84.5
Ithaca	.....	T.	1.3	11.7	31.9	11.2	9.9	0.2	T.	66.2
Jeffersonville	.....	.....	2.0	14.0	34.0	21.0	11.0	.....	T.	82.0
Lake Placid Club	.....	1.0	10.0	24.0	26.7	17.0	19.0	3.5	0.7	101.9
Lauterbrunnen	.....	T.	4.0	16.4	42.4	8.0	12.0	T.	2.0	84.8
Little Falls (No. 1)	.....	.....	0.5	17.0	35.0	18.5	16.5	T.	.....	87.5
Lockport	.....	T.	3.1	14.0	22.0	7.0	9.0	0.8	0.5	56.4
Lowville	.....	0.6	1.5	29.3	36.7	19.5	31.8	2.2	T.	121.6
Medford	.....	.....	2.8	6.8	22.6	12.9	6.6	T.	.....	51.7
Moira	.....	2.0	2.0	13.0	41.0	25.0	31.0	4.0	1.0	[1] 119.0
Mount Vernon	.....	.....	0.9	7.8	29.8	17.5	7.9	T.	T.	63.9
New Berlin	.....	.....	2.3	8.6	26.0	6.9	1.1	.....	.....	44.9
New York City	.....	.....	1.0	7.0	21.9	17.9	7.4	T.	.....	55.2
North Lake	.....	4.0	8.0	45.0	21.0	47.0	53.5	3.0	0.5	182.0
Norwich	.....	.....	3.0	12.4	29.2	19.1	9.4	T.	T.	73.1
Oswego	.....	T.	1.8	38.2	31.8	39.2	17.8	0.8	0.5	130.1
Port Jervis	.....	.....	0.7	17.2	38.3	20.3	6.8	.....	.....	83.3
Rhinebeck	.....	.....	0.4	17.6	40.3	16.3	7.8	T.	T.	82.4
Rochester	.....	0.1	1.8	24.2	38.5	17.5	18.3	1.4	0.7	102.5
Roxbury	.....	0.5	5.5	17.0	38.2	22.4	15.5	4.0	1.0	104.1
Setauket	.....	.....	1.5	7.0	21.0	14.0	9.5	.....	.....	53.0
Syracuse	.....	T.	3.5	16.1	36.0	18.4	14.7	2.0	0.1	90.8

[1] Trace in June, 1923.

Monthly and seasonal snowfall, 1922–23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
New York—Continued.										
Walton		T.	1.5	12.5	28.5	18.0	8.8	2.0	T.	71.3
Warwick			1.0	12.0	32.0	24.0	7.0			76.0
Watertown		0.5	T.	14.0	27.5	9.5	21.0	1.0	T.	73.5
West Berne			2.0	20.5	39.0	12.0	7.0	1.0	T.	81.5
West Point			1.0	7.7	28.5	25.7	4.5		(*)	
York		T.	0.9	19.6	27.0	7.5	13.2	0.2	2.0	70.4
North Carolina.										
Asheville			0.9	0.1	1.0	0.2	T.		T.	2.2
Banners Elk			0.5	0.5	6.5	7.0	4.0			18.5
Beaufort										0.0
Brewers			T.	T.		6.0				6.0
Bryson City			3.0	2.5		T.				5.5
Charlotte			0.5			0.2				0.7
Elizabeth City				4.0						4.0
Elkin			T.	T.		3.5				3.5
Fayetteville			T.			0.2				0.2
Goldsboro			T.			0.2				0.2
Greensboro				T.						T.
Hatteras						T.				T.
Henderson				T.		3.0				3.0
Hendersonville			5.0	T.	2.5	(*)	(*)			
Hickory					4.0					4.0
Hot Springs			1.0	2.0		10.0				13.0
Jefferson			T.	T.	2.5	5.2	0.1	T.		7.8
Lenoir			T.		T.	1.2				1.2
Lumberton			1.0							1.0
Marion					T.	2.2				2.2
Moncure				T.		T.				T.
Montreat			0.6	0.4	3.3	1.5			T.	5.8
Newbern			T.							T.
Pinehurst			T.	T.						T.
Raleigh				0.6		0.1				0.7
Rock House			3.0	T.	3.0	0.2	T.			6.2
Rockingham			T.	T.		T.				T.
Sloan			0.7							0.7
Tarboro				1.5		0.4				1.9
Tryon					1.5					1.5
Waldon				1.0		0.7				1.7
Wenona			1.0	2.5						3.5
Wilmington			0.2			T.				0.2
Winston-Salem				T.	2.0	2.0				4.0
North Dakota.										
Amenia		T.	8.0	14.0	9.0	21.0	3.0	4.0		59.0
Arnegard		7.0	13.0	4.5	1.5	4.0	3.2	9.5	3.0	45.7
Ashley		3.0	18.0	1.0	10.5	8.0	7.0	3.0	T.	50.5
Berthold Agency		4.0	1.5	7.0	1.0	T.	0.5	4.0		27.0
Bismarck		2.5	5.7	12.9	4.1	5.4	3.4	9.1	T.	43.1
Carson		2.5	16.0	10.5	3.0	2.0	3.2	7.5		44.7
Cooperstown		T.	8.0	2.0	5.0	3.0	T.	6.5	T.	24.5
Crosby		2.7	4.5	3.8	6.5	4.8	1.8	11.0		35.1
Devils Lake		0.3	3.5	13.4	6.5	9.7	11.8	5.4	T.	50.6
Dunn Center		3.0	5.0	9.0	3.0	6.0	7.0	11.0		44.0
Dunseith			2.5	9.5	4.5	15.2	4.5	6.2		42.4
Ellendale		1.2	12.4	3.5	7.8	4.7	2.9	4.5	T.	37.0
Fessenden		1.0	1.1	12.2	4.7	13.5	4.8	3.3		40.6
Fryburg		7.0	6.0	4.0	3.5	6.5	5.0	10.0	T.	42.0
Fullerton		1.8	15.0	10.3	13.4	21.0	7.4	5.3	T.	74.2
Grafton			10.2	11.4	8.4	9.4	11.0	4.0		54.4
Grand Forks		0.8	7.1	10.1	2.8	7.6	6.5	9.1	0.1	44.1
Hannah			5.0	20.0	8.0	14.0	11.0	7.0		65.0
Hillsboro		T.	5.0	5.5	3.5	2.0	T.	0.8	T.	16.8
Howard		7.8	8.2	5.6	13.0	8.5	11.9	11.1	0.7	66.8
Jamestown		3.0	7.5	4.2	12.0	7.8	3.2	3.8	T.	41.5
Lisbon		2.0	8.0	4.0	6.2	7.5	0.5	3.0	T.	31.2
McClusky		1.5	1.8	12.5	6.0	14.0	11.0	14.0		60.8
McHenry		2.5	9.0	8.5	4.0	14.0	3.0	5.0	T.	46.0

Monthly and seasonal snowfall, 1922-23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
North Dakota—Continued.										
McKinney	.....	2.5	9.5	7.5	5.0	2.0	2.5	6.2	.....	35.2
Minot	.....	3.0	2.0	13.0	1.5	4.0	4.0	6.5	.....	34.0
Mott	.....	3.0	5.8	2.3	8.3	2.0	2.5	3.8	3.0	30.7
Napoleon	.....	3.0	13.0	T.	8.5	1.5	1.0	7.0	0.5	34.5
New England	.....	3.5	8.2	5.7	4.0	7.0	2.0	6.5	2.5	39.4
Pembina	.....	.....	4.0	16.0	3.0	14.0	1.0	.....	.....	38.0
Pettibone	.....	2.5	10.0	10.5	5.0	1.0	3.0	3.0	.....	35.0
Powers Lake	.....	7.5	3.0	7.0	9.0	10.5	6.0	17.0	T.	60.0
Valley City	.....	0.5	5.0	1.8	3.6	2.9	2.3	3.1	T.	19.2
Williston	.....	8.2	8.0	10.3	7.4	10.4	6.3	14.9	1.2	66.7
Willow City	.....	T.	3.0	12.0	8.0	11.0	11.0	8.0	T.	53.0
Ohio.										
Akron	.....	.....	3.2	5.2	6.7	6.0	7.0	T.	2.0	30.1
Amesville	.....	.....	T.	2.0	0.5	6.4	0.5	.....	T.	9.4
Ashland	.....	.....	2.0	6.5	8.2	5.0	5.0	T.	2.0	28.7
Cadiz	.....	.....	0.2	3.2	3.9	11.0	5.0	T.	0.2	23.5
Canton	.....	.....	2.7	3.2	8.6	6.1	4.9	0.2	1.5	27.2
Cincinnati	.....	.....	0.7	1.3	T.	3.6	1.0	.....	T.	6.6
Cleveland (Weather Bureau)	.....	.....	2.6	13.1	6.9	8.9	6.1	0.1	T.	37.7
Columbus	.....	.....	1.0	2.1	0.9	9.6	3.7	T.	0.3	17.6
Dayton (Weather Bureau)	.....	.....	1.3	4.0	0.2	4.9	2.0	T.	0.5	12.9
Delaware	.....	.....	1.5	7.2	2.5	13.1	5.2	.....	T.	29.5
Demos	.....	.....	1.4	1.5	2.0	6.7	3.8	T.	1.9	17.3
Hiram	.....	.....	4.5	8.5	17.5	12.5	13.0	1.3	3.0	60.3
Ironton	.....	.....	0.3	2.3	0.1	1.9	T.	.....	T.	4.6
Marietta Experiment Farm	.....	.....	T.	2.0	T.	6.0	0.3	T.	T.	8.3
Marion	.....	.....	2.0	6.5	2.0	7.5	4.5	.....	1.5	24.0
Millersburg	.....	.....	0.6	5.7	4.5	6.0	5.2	.....	0.5	22.5
Millport	.....	.....	2.0	3.3	4.0	6.1	4.5	0.1	1.5	21.5
Ottawa	.....	.....	T.	9.5	13.2	7.2	5.7	T.	2.0	37.6
Sandusky	.....	.....	1.8	12.6	8.0	3.4	5.2	0.1	T.	31.1
Sidney	.....	.....	1.2	10.0	0.2	5.8	4.0	.....	2.0	23.2
Tiffin	.....	.....	T.	8.5	13.0	5.0	8.0	T.	1.0	35.5
Toledo	.....	.....	0.3	9.7	9.5	3.5	5.5	1.6	4.0	34.1
Wapakoneta	.....	.....	1.5	13.5	4.2	7.8	5.8	T.	1.0	33.8
Wauseon	.....	.....	T.	8.0	7.5	4.0	4.0	1.5	2.0	27.0
Waverly	.....	.....	0.4	4.9	T.	2.8	1.6	.....	T.	9.7
Wilmington	.....	.....	0.5	2.0	0.5	10.5	0.5	.....	3.0	17.0
Zanesville	.....	.....	0.2	1.7	1.4	8.8	4.8	.....	0.1	17.0
Oklahoma.										
Ada	.....	.....	.....	.....	0.5	2.0	.....	.....	.....	2.5
Altus	.....	.....	.....	.....	T.	T.	.....	.....	.....	T.
Alva	.....	.....	.....	T.	.....	.....	T.	.....	.....	T.
Antlers	.....	.....	.....	.....	2.8	1.2	.....	(*)	.....	.....
Ardmore	.....	.....	.....	.....	T.	3.5	T.	.....	.....	3.5
Beaver	.....	.....	.....	.....	.....	2.0	0.1	.....	.....	2.1
Blackwell	.....	.....	.....	.....	.....	.....	0.1	.....	.....	0.1
Broken Arrow	.....	.....	.....	.....	0.5	2.5	T.	.....	.....	3.0
Broken Bow	.....	.....	.....	.....	.....	T.	.....	.....	.....	T.
Buffalo	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Carnegie	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Chandler	.....	.....	.....	.....	T.	.....	T.	.....	.....	T.
Chickasha	.....	.....	.....	.....	.....	2.0	.....	.....	.....	2.0
Durant	.....	.....	.....	.....	.....	1.0	.....	.....	.....	1.0
Enid	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Erick	.....	.....	.....	.....	.....	T.	T.	.....	.....	T.
Hammon	.....	.....	.....	.....	.....	2.0	0.5	.....	.....	2.5
Holdenville	.....	.....	.....	.....	2.0	4.0	.....	.....	.....	6.0
Hugo	.....	.....	.....	.....	3.5	1.0	.....	.....	.....	4.5
Kenton	.....	.....	1.3	0.7	T.	8.1	5.0	T.	T.	15.1
Kingfisher	.....	.....	.....	.....	.....	.....	T.	.....	.....	T.
Lawton	.....	.....	.....	.....	.....	3.8	.....	.....	.....	3.8
Muskogee	.....	.....	.....	.....	.....	4.5	T.	.....	.....	4.5
Okeene	.....	.....	.....	.....	.....	T.	T.	.....	.....	T.
Oklahoma City	.....	.....	.....	.....	.....	1.0	0.1	.....	.....	1.1
Okmulgee	.....	.....	.....	.....	.....	4.7	T.	.....	.....	4.7

Monthly and seasonal snowfall, 1922-23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Oklahoma—Continued.										
Pauls Valley					T.	4.5	T.			4.5
Pawhuska						0.5				0.5
Poteau					T.	T.	T.			T.
Shawnee					0.2	4.0				4.2
Stillwater						1.5				1.5
Sulphur					0.3	3.5				3.8
Tulsa					0.3	3.0	T.			3.3
Tuskahoma										0.0
Vinita						3.0	T.			3.0
Waurika					T.	5.0				5.0
Weatherford						T.	T.			T.
Woodward						T.	T.			T.
Oregon.										
Albany				3.0		4.2				7.2
Andrews		T.	0.8	6.2	7.3	0.5	0.3	1.0	1.0	17.1
Ashland			0.5	0.8	4.8	4.5	3.5			14.1
Astoria				1.2	1.5	6.0	T.			8.7
Baker			T.	12.3	3.9	7.7	3.3	T.	T.	27.2
Bear Creek		T.	12.6	29.4	19.0	4.5	6.0	9.0	T.	80.5
Bear Valley		T.	6.2	19.5	15.2	6.5	11.5	7.0	2.0	67.9
Beech Creek		T.	16.2	40.0	19.0	7.0	13.5	13.0	3.0	105.7
Bend			9.0	23.0	27.0	6.0	5.0	T.		70.0
Big Eddy				16.3	2.8	3.5				22.6
Blitzen			T.	15.0	6.5	T.	3.5	0.3	2.0	[6] 27.3
Brookings					0.2					0.2
Cascade Locks			T.	21.5	10.0	21.0	T.			52.5
Cascadia				2.5	11.0	12.0	1.5	T.		27.0
Cazadero			T.	6.5	1.0	19.5	1.0			28.0
Chiloquin		T.	5.0	35.0	20.0	11.2	0.5	5.0	T.	76.7
Clarno			T.	7.0	T.	T.	T.			7.0
Classic Lake				T.	1.0	0.5	T.			1.5
Condon			3.0	15.0	4.0	6.0	2.5	5.0		35.5
Cornucopia		4.0	12.8	106.3	100.1	41.2	43.9	26.3	T.	334.6
Corvallis				2.2	T.	9.5	T.			11.7
Cottage Grove				1.2	4.0	2.0				7.2
Cove			1.0	17.5	3.0	9.8	6.8	3.0		41.1
Crater Lake	2.8	5.4	24.0	107.0	61.7	27.0	24.9	27.0	9.0	288.8
Dayville			0.2	10.5	T.	1.0	1.8	T.		13.5
Detroit			T.	22.0	25.5	35.5	9.2	0.5		92.7
Doraville			T.	22.8	6.2	14.0	0.6			43.6
Drain					1.1	1.0				2.1
Dufur			1.6	26.4	15.0	7.0	4.5	0.5		55.0
Echo			0.5	13.8	T.	14.3				28.6
Eugene				0.5	0.4	T.	T.			0.9
Fish Lake		(*)	(*)	67.6	53.5	20.8	13.8	11.2	4.0	
Forest Grove			1.0	11.5	5.6	18.4	T.	T.		36.5
Fremont		T.	10.8	22.0	15.7	25.3	1.5	3.0	T.	[6] 78.3
Government Camp		6.5	1.5	108.0	(*)	48.0	72.0	18.0	7.0	
Grants Pass			T.	T.	2.0	1.0	(*)			
Harney Branch Experiment Station			T.	14.2	8.0	2.0	2.5	5.0		31.7
Harper			1.0	6.1	11.3	0.6	T.			19.0
Hay Creek			6.0	19.0	7.0	0.8	3.5			36.3
Headworks			T.	14.0	4.0	24.0				42.0
Heppner			T.	16.0	3.0	22.0	0.8	T.		41.8
Hermiston			T.	10.0	T.	6.6	T.			16.6
Hilgard			2.0	13.0	21.0	13.0	16.0	1.0	1.0	67.0
Hillcrest Orchard			0.2	0.2	2.8	0.5	0.8			4.5
Hood River			5.0	35.0	25.5	20.0	(*)	(*)	(*)	
Howardville		0.3	2.3	54.3	43.7	24.5	34.8	17.1	1.5	178.5
Ibex Mine			9.0	65.0	28.0	9.0	44.0	16.0	6.0	177.0
Jacksonville			1.0	1.0	3.0	3.0	0.5			8.5
Jewell				11.2	7.8	11.7	4.4			35.1
Kingman				2.0	2.0	T.	T.			4.0
Klamath Falls			6.5	33.0	15.8	9.5	T.	0.5	T.	65.3
La Grande			0.3	17.9	7.5	5.6	16.0	T.	T.	[6] 47.3
Lake Creek			2.5	3.0	7.0	8.0	3.5			24.0
Lakeview		T.	4.5	16.6	7.2	5.6	0.1	8.0	T.	[17] 43.2

[6] Trace in June, 1923.

[17] Includes June, 1923: Lakeview, 1.2.

Monthly and seasonal snowfall, 1922–23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Oregon—Continued.										
Lapine		T.	8.7	26.3	22.0	14.8	2.9	4.9	0.5	[9] 80.1
McMinnville				2.0	2.0	7.0				11.0
Madras		T.	3.0	17.4	9.9	1.2	2.9	T.	T.	34.4
Marshfield					0.2					0.2
Medford				0.5	1.5	0.5	0.5			3.0
Merrill			8.0	16.0	5.0	0.5	T.	2.8	T.	32.3
Mikkalo			T.	17.5	3.0	8.0	2.0			30.5
Milton			2.0	11.0	3.5	8.1				24.6
Newport					1.0	T.				1.0
Ochoco			9.5	35.5	41.5	11.5	9.0	8.0	T.	115.0
Olive Lake		8.5	13.8	50.5	43.5	33.0	45.0	32.0	6.5	232.8
Ortley			2.2	48.5	24.0	15.0	4.5	0.5		94.7
Parkdale		T.	1.0	50.0	35.5	23.5	6.0	1.0		117.0
Pendleton			T.	10.0	2.0	16.0	T.			28.0
Pilot Rock			1.0	12.5	2.0	7.5		T.		23.0
Portland			T.	7.9	1.0	13.3	T.			22.2
Power House			T.	12.6	2.5	24.8	1.0			40.9
Prairie City		T.	4.6	22.7	10.8	7.3	18.1	2.3		65.8
Prospect			6.6	20.1	25.1	19.1	7.4	2.1		80.4
Reservoir No. 3			0.1	17.4	8.1	0.9	3.1	1.7		31.3
Riddle			T.		5.5	T.				5.5
Riverside			T.	2.5	7.0	2.0	0.5			12.0
Rock Creek			T.	38.8	27.5	15.2	14.0	8.0		103.5
Roseburg					4.5	0.1	T.			4.6
Round Grove			4.5	17.2	6.8	4.2	0.5	0.6	2.5	[10] 38.8
Salem			T.	5.0	0.8	7.5	T.			13.3
Silver Lake			8.0	13.5	11.7	6.0	2.6	(*)	(*)	
Siskiyou		T.	22.0	70.0	35.0	16.0	8.0	6.0	T.	157.0
Starkey			2.0	5.9	2.5	14.0	8.7	5.0	1.0	39.1
Sunrise Valley			0.8	6.7	9.1		2.0	4.5		23.1
Talent			T.	T.	2.0	1.0	2.0			5.0
The Dalles			T.	15.0	2.0	6.0				23.0
Toledo					4.0	0.2	0.2			4.4
Ukiah			3.0	17.8	15.0	12.3	3.4	1.5		53.0
Umatilla			T.	3.1	T.	2.2	T.			5.3
Umpqua					0.5					0.5
Union			1.5	9.8	1.0	10.5	6.5			29.3
Valley Falls			6.0	2.5	9.0	6.0	2.0			25.5
Waldo			4.0	11.5	14.5	12.5	3.0			45.5
Wallace Orchard				5.0	1.0	9.5				15.5
Wallowa			0.4	23.9	5.0	17.8	9.8	1.0		57.9
Warmspring			2.0	14.0	4.5	1.5	T.			22.0
Wasco			0.5	19.0	6.5	9.0	1.0			36.0
Welches (near)			(*)	29.4	19.2	32.5	9.4	T.		
Weston			4.0	15.5	5.0	24.5	1.0	T.		50.0
Williams			3.0	5.0	5.8	4.0	T.			17.8
Yonna			4.0	18.7	9.2	4.0	0.2	1.8		37.9
Pennsylvania.										
Altoona			4.0	12.0	18.0	10.0	6.0	14.0	3.0	67.0
Beaver Dam		T.	2.3	2.7	3.5	10.1	0.7	0.2	1.0	20.5
Bradford			3.4	13.6	30.3	9.2	7.1	2.8	3.0	69.4
Brookville			4.0	8.0	13.5	10.5	5.0	2.5	T.	43.5
Catawissa			T.	7.8	17.0	12.0	5.3	0.5	T.	42.6
Chambersburg			1.8	5.6	12.4	7.6	6.7	3.3	T.	37.4
Claysville			0.6	1.7	3.0	3.0	5.3		1.5	15.1
Clearfield			2.2	2.7	39.0	16.1	7.0	6.0	1.0	74.0
Coatesville			T.	2.0	10.9	7.2	6.4	2.5		29.0
Emporium			0.5	13.5	32.0	15.2	6.6	T.	0.8	68.6
Erie			4.3	14.6	17.5	5.5	7.8	2.2	1.7	53.6
Franklin			8.0	10.0	17.0	8.0	4.5	2.0	0.5	50.0
Gettysburg			0.5	4.0	14.0	11.0	8.5	4.0		42.0
Greensburg			3.2	2.7	8.1	15.2	7.9	1.0	3.0	41.1
Harrisburg			0.5	7.1	9.3	10.4	4.4	2.3	T.	34.0
Holtwood			T.	4.8	10.0	9.0	8.5			32.3
Johnstown			3.2	6.5	20.5	12.7	10.9	7.0	2.7	63.5
Lebanon			0.5	5.3	11.2	12.3	6.6	3.7	T.	39.6
Linesville			8.5	19.8	33.8	11.0	7.9	0.5	3.0	84.5

[9] Trace in June, 1923.

[10] Includes June, 1923: Round Grove, 2.5.

Monthly and seasonal snowfall, 1922-23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Pennsylvania—Continued.										
Mauch Chunk			T.	6.5	26.5	15.2	9.0		T.	57.2
Mifflintown			0.5	8.5	24.5	13.0	5.5	5.0	T.	57.0
Montrose			2.0	12.0	35.0	8.0	7.0	T.	1.0	65.0
Muncy Valley		T.	T.	12.0	27.7	12.8	4.0	0.1	T.	56.6
Philadelphia (Weather Bureau)			T.	2.2	4.1	8.2	3.2	1.8		19.5
Pittsburgh			1.0	2.1	2.9	12.1	2.4	3.0	0.9	24.4
Quakertown			T.	4.5	17.4	15.1	6.7	0.3		44.0
Reading			T.	6.1	14.1	12.8	4.7	3.3	T.	41.0
Scranton		T.	0.2	9.3	23.4	14.4	5.8	T.	1.0	54.1
Sharon			2.5	5.8	3.4	7.5	5.0	0.8	T.	25.0
Somerset			4.4	4.5	23.0	21.0	14.8	5.2	2.0	74.9
State College			0.5	9.0	31.2	17.0	4.2	3.0	0.5	65.4
Towanda			0.5	6.4	13.3	8.6	5.9	1.0	T.	35.7
Uniontown			4.0	3.5	3.0	9.5	3.5		1.5	25.0
Warren			8.7	16.0	18.5	9.0	8.2	2.3	1.6	64.3
Wellsboro			1.5	11.7	25.0	14.5	6.0	T.	1.0	59.7
West Bingham		T.	3.5	11.5	23.5	13.0	5.5	2.0		59.0
Williamsport			1.0	12.0	29.0	17.2	4.5	0.7	T.	64.4
Rhode Island.										
Block Island			T.	3.7	11.9	9.8	3.2			28.6
Bristol			0.8	8.0	21.0	16.5	6.0			52.3
Kingston			0.5	9.0	24.5	17.0	6.0			57.0
Providence			0.5	10.9	25.4	16.3	2.6			55.7
South Carolina.										
Aiken										0.0
Blackville			T.							T.
Catawba			T.							T.
Charleston										0.0
Cheraw			1.0							1.0
Clemson College										0.0
Columbia			T.							T.
Conway			T.							T.
Due West					T.	T.				T.
Garnett			T.							T.
Gaston Shoals				T.						T.
Georgetown			T.							T.
Greenville			T.	T.		T.				T.
Kershaw										0.0
Kingstree										0.0
Landrum			T.			T.				T.
Newberry										0.0
Orangeburg (No. 1)										0.0
Parris Island										0.0
Santuck			T.	T.		T.				T.
Spartanburg			T.	T.	T.					T.
Trenton										0.0
South Dakota.										
Aberdeen		T.	13.0	7.0	14.5	7.9	10.4	10.5		63.3
Academy			8.0	8.0	3.5		4.0			23.5
Ardmore		6.0	9.0	6.0	T.	4.0	4.6	1.0	8.0	38.6
Bellefourche			5.0	6.0	4.0	4.0	8.5	11.0		38.5
Britton		T.	1.5	2.8	8.4	10.9	3.6	11.1	T.	38.3
Brookings		0.1	8.5	2.0	2.7	0.7	2.6	4.2		20.8
Camp Crook		10.0	15.8	1.0	4.0	2.0	4.0	4.0		40.8
Colome		T.	8.0	9.0	4.0	1.0	3.4	0.3		25.7
Cottonwood		3.3	4.0	6.0	1.0	T.	1.2	0.7		16.2
Custer		4.0	6.0	3.2	5.5	2.5	16.2	15.4		52.8
Deadwood		11.5	32.5	15.0	6.5	13.0	38.0	13.0	1.0	130.5
Deerfield		7.0	37.0	3.1	11.5	5.5	11.4	13.6	5.2	94.3
Dumont		3.2	43.5	9.0	10.8	14.0	30.7	8.9	9.0	129.1
Eales		T.	11.5	2.4	6.0	0.2	3.5	11.2	0.5	35.3
Elk Mountain		6.0	26.5	4.6	6.8	11.0	5.0	2.0	T.	61.9
Eureka			14.4	2.3	1.3	1.7	3.1	5.4		28.2
Fairfax			(*)	12.0	9.0		9.0	1.0	T.	

Monthly and seasonal snowfall, 1922-23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
South Dakota—Continued.										
Faulkton			15.0	2.0	3.0	0.5	5.0	5.0	0.5	31.0
Forestburg		T.	9.1	5.3	0.5	T.	3.3	3.4	T.	21.6
Harveys Ranch		4.5	40.5	6.5	12.0	16.5	19.0	16.0	6.0	121.0
Hermosa		1.0	5.5	8.0	2.0		14.0	2.6		33.1
Highmore			8.0	3.5	2.5	T.	11.6	2.5	0.2	28.3
Hopewell			13.0	6.5	4.0	1.0	6.5	10.0	T.	41.0
Hot Springs		3.0	14.0	6.0	7.0	4.0	7.0			41.0
Huron		T.	11.5	2.2	6.3	0.4	2.5	3.3	0.4	26.6
Ipswich		T.	12.5	4.0	5.5	3.0	T.	7.5		32.5
Jefferson			6.5	T.	1.5	T.	3.0	3.0		14.0
Lead		4.0	32.4	10.6	6.3	10.5	23.3	14.9	1.0	103.0
Lemmon		2.5	16.4	11.5	13.0	(*)	1.5	4.5	T.	
McIntosh			7.0	5.5	4.5	10.0	1.0	8.5		36.5
Marion		T.	5.0	7.0	1.5	T.	9.0	2.0		24.5
Meadow		3.0	(*)	4.3	2.0	T.	0.8	1.3	T.	
Mitchell			12.0	9.3	3.1	0.2	4.5	3.3		32.4
Mud Butte		6.0	12.2	3.0	2.7	T.	1.5	7.9		33.3
Oelrichs		T.	6.0	12.0	(*)	5.0	12.0	5.5	0.2	
Orman		T.	6.3	7.2	2.6	2.2	8.1	4.4		30.8
Pierre		T.	13.9	5.7	1.3	0.4	6.4	2.5		30.2
Pine Ridge		(*)	(*)	7.0	3.4	3.0	3.8	5.2	0.2	
Pollock			14.0	2.5	4.7	5.0	1.9	6.0	0.9	35.0
Rapid City		4.0	10.1	3.0	3.9	1.4	11.5	6.0		39.9
Redig		8.0	11.0	6.0	3.2	4.0	6.5	7.0		45.7
Rochford		7.2	47.3	9.6	11.9	7.8	16.4	18.3	3.1	121.6
Roslyn		2.0	15.0	2.1	5.5	3.6	3.3	6.6	0.2	38.3
Spearfish		6.5	30.0	9.5	3.7	5.5	23.1	9.5	T.	87.8
Tyndall			9.0	3.0	4.5	T.	4.2	T.		20.7
Vale		2.0	10.5	5.5	1.8	3.0	8.5	9.0		40.3
Vermilion			2.0	3.2	8.0	0.2	11.5	0.1		25.0
Vivian		T.	4.5	5.0	1.7	T.	T.	T.		11.2
Wagner			10.0	10.0	4.0	T.	14.5	3.0		41.5
Waters Ranch		0.7	20.1	15.1	11.3	3.6	15.4	9.9		76.1
Watertown		T.	4.5	2.5	6.2	1.0	6.2	6.0	T.	26.4
Yankton			5.0	2.5	5.7	0.8	8.6	0.2	T.	22.8
Tennessee.										
Ashwood			T.			10.0	T.			10.0
Celina			T.			4.0	T.			4.0
Chattanooga			T.			1.0	T.			1.0
Clarksville			T.	T.		0.7	T.			0.7
Coldwater						4.5				4.5
Decatur						7.0	T.			7.0
Florence				T.		6.2	T.			6.2
Hohenwald						8.0	T.			8.0
Jackson						3.5	T.			3.5
Johnson City			0.8	0.8		6.0	T.			7.6
Kenton						2.0	T.			2.0
Knoxville			1.8	T.	T.	11.1	T.		T.	12.9
McMinnville			T.	T.		8.0	0.5			8.5
Memphis						4.6	T.			4.6
Nashville				T.	T.	5.7	T.			5.7
Palmetto			T.			8.0				8.0
Rogersville			T.	T.	T.	6.0			T.	6.0
Rugby			5.0	T.	T.	12.0	T.			17.0
Walling						5.0	T.			5.0
Waynesboro			T.	T.		9.0	T.			9.0
Texas.										
Abilene			T.		T.	2.6				2.6
Albany						3.0				3.0
Amarillo			0.1	0.1		9.3	4.4			13.9
Ballinger						7.0				7.0
Beaumont										0.0
Big Spring						3.2				3.2
Bonham					4.5					4.5
Bowie					4.5	4.0				8.5
Bridgeport					6.0	1.5	T.			7.5
Brownsville						T.				T.

Monthly and seasonal snowfall, 1922–23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Texas—Continued.										
Brownwood						5.0				5.0
Canadian						2.2	0.5			2.7
Chillicothe						3.0				3.0
Colorado						1.0				1.0
Corpus Christi						T.				T.
Crosbyton						0.5				0.5
Dalhart			T.	T.		3.5	0.5			4.0
Dallas					0.3	2.4				2.7
Del Rio						0.7				0.7
Eagle Pass						0.5				0.5
Eastland						7.0				7.0
El Paso			T.			1.4				1.4
Flint					T.	7.0				7.0
Fort McKavett (near)						4.0				4.0
Fort Stockton					T.	4.2				4.2
Fort Worth				T.	1.0	T.				1.0
Gainesville					2.0	0.5				2.5
Galveston										0.0
Greenville					5.0	0.2				5.2
Groesbeck						3.5				3.5
Haskell						2.4				2.4
Henrietta					0.5	5.0				5.5
Houston						T.	T.			T.
Kerrville						0.2				0.2
Knickerbocker						8.0				8.0
Lampasas						5.0				5.0
Llano						4.0				4.0
Longview						5.0				5.0
Lubbock						1.5	0.1			1.6
Luling						0.5				0.5
Marshall					T.	3.0				3.0
Memphis						T.	T.			T.
Midland						6.0				6.0
O 2 Ranch						1.0				1.0
Palestine						T.				T.
Panhandle						1.0				1.0
Paris					4.0	T.				4.0
Pierce										0.0
Plainview						3.0	T.			3.0
Port Arthur										0.0
Putnam						5.0				5.0
Romero			0.5	T.		1.0				1.5
Rossville						2.0	T.			2.0
Runge										0.0
San Antonio						1.0				1.0
Taylor						2.4				2.4
Temple						0.5				0.5
Uvalde						1.0				1.0
Valley Junction						2.0				2.0
Waco						4.0				4.0
Waxahachie						3.0				3.0
Winfield (near)					2.0	3.0				5.0
Utah.										
Alpine			18.0	19.0	5.0	11.0	10.0			63.0
Alton		14.0	(*)	19.5	23.0	17.0	6.0	(*)	2.0	
Beaver		2.1	5.5	10.0	12.0	11.0	7.5	1.0		49.1
Black Rock		T.	13.0	10.0	10.0	16.0	5.0	5.5		59.5
Blanding		(*)	6.0	4.0	12.0	11.0	7.0			
Corinne			2.0	12.0	18.0	2.0	6.0	0.5		40.5
Cottonwood Weir		T.	29.0	31.0	33.0	14.5	31.5	15.0	(*)	
Delle		T.	T.	5.5	11.2	(*)	1.2	4.0		
Deseret		2.0	8.0	7.0	13.0	14.0	8.0	T.		52.0
Duchesne		T.	12.0	8.5	5.0	8.0	7.0	1.0		41.5
Emery		0.2	6.5	3.0	1.5	15.0	T.			26.2
Farmington			(*)	(*)	25.0	5.0	11.0	(*)		
Fillmore		14.0	6.0	22.5	8.0	16.5	22.0	6.5		95.5
Fruitland		(*)	16.0	30.9	22.3	14.5	10.8	4.2	T.	
Government Creek		1.0	18.9	19.7	13.0	6.6	12.5	4.0		75.7
Green River				0.5	1.5	1.0	T.	T.		3.0

Monthly and seasonal snowfall, 1922–23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Utah—Continued.										
Hanksville				2.0	1.0			T.		3.0
Hatch		16.0	10.0	5.0	22.0	15.0	5.5	6.0	T.	79.5
Heber			16.0	30.0	25.5	16.5	16.0	7.0	T.	111.0
High Line City Creek		1.0	35.0	47.0	23.0	10.0	27.0	7.0	T.	150.0
Hole-in-the-Rock		25.0	18.5	14.0	8.5	5.0	15.5	26.0	3.5	116.0
Huntsville			13.0	41.0	38.5	9.0	26.0	7.0		134.5
Ibapah		8.0	21.0	9.0	12.2	8.5	10.0	9.5		78.2
Kelton		(*)	0.2	4.5	(*)	T.	3.5			
Laketown		6.0	17.0	18.0	18.0	2.0	8.5	14.5		84.0
La Sal		(*)	3.0	13.8	4.0	0.8	1.2	3.0		
Lehi		(*)	12.0	(*)	0.4	12.8	1.0	T.	(*)	
Levan		6.0	12.0	21.0	7.5	19.0	15.0	14.5	T.	95.0
Lower American Fork			(*)	6.0	3.0	10.0	6.0			
Lower Mill Creek		T.	24.5	31.8	30.0	11.2	27.0	0.5		125.0
Lucin			(*)	(*)	3.2	T.	0.2			
Manila		10.0	2.0	4.5	5.0	5.0	7.0	12.0		45.5
Manti		2.5	3.0	17.1	4.1	9.3	14.0	11.0		61.0
Midlake			2.0	(*)	1.0	0.1	0.5			
Moab				2.0	1.5	1.0	7.5			12.0
Modena		0.8	9.5	1.4	12.1	10.8	7.9	3.3	T.	45.8
Morgan		2.0	19.0	43.0	33.0	5.0	23.0	12.0		137.0
Moroni		3.2	4.3	8.5	5.2	14.9	8.9	4.1		49.1
Mosida			3.0	12.5	10.5	8.5	7.0	T.		41.5
Mountain Dell		1.0	33.0	33.5	30.0	12.0	29.0	20.0		158.5
Nada		6.0	6.5	2.3	12.0	10.2	9.0	6.0		52.0
Ogden			2.8	23.7	23.5	1.8	13.2	(*)		
Park City		4.0	44.0	67.0	75.0	26.0	47.0	48.0		311.0
Pine View	(*)	(*)	(*)	(*)	33.0	(*)	12.0	27.0		
Pinto		16.0	26.0	2.0	18.0	37.0	31.0	14.0		144.0
Piute Dam		(*)	T.	4.7	(*)	(*)	4.0	(*)		
Price		T.	1.0	5.5	5.5	4.0	1.0	2.0		19.0
Provo			21.2	21.5	15.4	11.6	6.8	T.		76.5
Richmond		T.	6.0	19.5	15.5	7.5	20.0	15.5		84.0
Saltair			6.0	10.0	8.0	T.	(*)	(*)	(*)	
Salt Creek		10.0	(*)	29.0	17.0	13.0	24.0	(*)		
Salt Lake City		T.	18.2	24.1	17.0	7.7	14.6	2.5		84.1
Santaquin		1.0	17.5	19.8	30.5	9.0	17.0	14.5		109.3
Snake Creek		0.2	30.2	45.8	44.5	19.8	36.5	14.0	T.	191.0
Sunnyside		5.0	24.8	8.2	8.5	15.8	3.8	17.2		83.3
Thistle		T.	15.0	24.5	31.0	9.0	21.0	9.0	T.	109.5
Tooele		T.	15.5	19.0	12.0	7.5	18.0	5.0		77.0
Vernal		(*)	(*)	7.0	2.0	12.0	6.0	T.	(*)	
Wendover			1.5	1.2	2.8	0.5		T.		6.0
Winter Quarters		9.5	24.5	60.5	26.5	32.0	29.0	21.0	1.0	204.0
Vermont.										
Bloomfield		3.0	4.8	23.5	17.0	14.5	29.0	2.5	T.	94.3
Burlington		1.2	2.0	13.4	22.9	6.6	18.0	0.6		64.7
Chelsea			T.	28.0	38.0	14.0	21.0	1.0	2.0	104.0
Cornwall			0.2	18.0	33.5	11.0	23.0			85.7
Enosburg Falls		3.5	4.5	15.5	24.5	15.5	19.5	2.0	0.5	85.5
Garfield		2.0	9.0	38.5	36.0	24.0	20.0	3.0		132.5
Northfield		1.0	1.5	25.5	32.5	8.0	19.9	1.1	0.5	90.0
St. Johnsbury		3.5	2.7	27.9	26.6	15.6	21.7	1.5	0.5	100.0
Somerset			1.8	28.2	52.2	24.0	9.8	2.5	2.5	121.0
Woodstock		T.	3.0	40.0	42.0	22.0	24.0	3.0	T.	134.0
Virginia.										
Arcola			T.	3.0	3.5	4.7	5.0			16.2
Blacksburg			1.0	T.	3.2	8.2	T.		T.	12.4
Callaville					T.	4.5				4.5
Cape Henry				1.8	T.	2.5	T.	T.		4.3
Charlottesville (near)			T.	0.2	4.2	5.5				9.9
Culpeper			0.1	0.2	2.5	2.5	1.0	T.		6.3
Dahlgren				1.4	1.4	12.1				14.9
Dale Enterprise			1.0	1.0	6.0	3.0	2.0	T.	T.	13.0
Dante			0.1	0.5	0.1	5.0	T.	T.	T.	5.7
Danville			T.		2.5	4.0				6.5
Fredericksburg (near)			T.	0.5	0.5	6.8	0.5	T.		8.3

Monthly and seasonal snowfall, 1922–23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Virginia—Continued.										
Guinea Mills			T.	T.	2.5	11.5			T.	14.0
Hopewell				T.		7.0	T.			7.0
Hot Springs			1.0	T.	6.8	4.4	T.	T.	T.	12.2
Lexington			0.5		5.5	5.9			T.	11.9
Lincoln			T.	3.0	7.0	4.0	6.0	T.	T.	20.0
Lynchburg			T.	T.	2.7	5.1			T.	7.8
Mount Moriah Farm				T.	T.	5.0				5.0
Mount Weather			2.0	3.0	5.0	4.5	5.5			20.0
Narrows			0.5		2.0	5.5				8.0
New Canton			T.	T.	4.0	9.5				13.5
Newport News			T.	0.5	T.	7.0.	T.			7.5
Norfolk			T.	1.5	T.	2.0	T.			3.5
Pulaski			T.	T.	2.5	6.0	T.		T.	8.5
Quantico			T.		3.5	1.5	0.2			5.2
Radford			1.0		2.0	7.0				10.0
Richmond				0.2	0.5	5.0				5.7
Roanoke			T.		5.0	11.0	T.		T.	16.0
Rocky Mount			T.		2.5	5.0				7.5
Runnymede (near)				T.	T.	6.0	T.			6.0
Staunton			T.	T.	5.0	5.0	1.5		T.	11.5
Washington, D. C.			T.	1.7	3.1	3.9	6.5	0.5	T.	15.7
Williamsburg			T.	T.		7.0				7.0
Woodstock			T.	3.0	9.0	1.5	5.3			18.8
Wytheville			0.5	T.	6.0	7.1	T.		T.	13.6
Washington.										
Aberdeen				14.0	3.0	27.0				44.0
Anatone			2.5	41.0	44.0	17.0	24.0	1.0		129.5
Arlington				17.8	2.3	9.9	2.0			32.0
Bellingham				9.5	3.0	6.2				18.7
Bremerton				8.7	0.3	19.6	0.1			28.7
Brewster			T.	13.9	8.7	6.2	T.			28.8
Buckley				7.9	7.2	11.7	3.5			30.3
Bumping Lake			3.0	109.0	76.0	37.0	27.5	6.5	3.0	262.0
Camp Lewis				9.7	3.1	20.5	T.			33.3
Carbonado			T.	11.2	7.0	15.7	1.5			35.4
Cascade Tunnel	(*)	(*)	20.0	11.5	96.0	41.0	91.0	26.0		
Cedar Lake				48.0	30.0	31.0	9.0			118.0
Clearbrook				13.0	9.0	8.0	1.0			31.0
Cle Elum			1.0	69.0	9.0	12.0	7.0	T.		98.0
Colfax				13.0	6.5	6.5	5.0	T.		31.0
Colville		T.	1.0	16.0	13.6	7.0	5.0			42.5
Conconully			1.1	19.4	13.0	4.0	2.0			39.5
Coupeville				15.2	0.5	1.2	T.			16.9
Cowiche			T.	26.3	5.5	4.0	2.8			38.6
Davenport			1.0	28.0	9.5	22.0	2.0			62.5
Davis Ranch			T.	30.6	64.8	35.0	30.5	T.		160.9
Dayton			1.0	16.0	3.0	21.5	1.0			42.5
Deer Park		1.0	1.9	39.5	25.2	18.3	14.5		T.	100.4
Detroit				4.1	2.0	18.0				24.1
Dirtyface Mountain		T.	2.6	86.8	96.0	27.5	17.6	2.5		233.0
Dryden				44.5	21.0	16.0	6.0			87.5
Ellensburg			T.	25.0	1.0	7.0	3.5			36.5
Ephrata			1.0	12.9	3.5	5.0				22.4
Everett				10.9	0.5	11.0	0.5			22.9
Fort Simcoe			1.1	26.0	5.2	12.8	0.5			45.6
Harrington			T.	17.7	6.8	9.0	0.5	0.5		34.5
Hatton			0.5	10.0	1.2	6.0	T.			17.7
Headworks			0.5	14.0	6.0	1.4	T.			21.9
Irene Mountain		T.	1.2	15.2	14.5	5.5	4.0	3.0		43.4
Kahlotus			T.	5.7	2.0	6.0	T.			13.7
Kalama (near)				6.5	4.0	11.5				22.0
Kennewick				12.3	T.	6.2				18.5
La Center			T.	8.0	2.2	7.5	2.0			19.7
Lake Cle Elum			0.5	86.7	39.0	30.0	21.5	2.5		180.2
Lake Kachess			4.0	100.0	55.0	40.0	42.0	5.0		246.0
Lake Keechelus		T.	6.0	123.0	88.0	47.0	59.0	7.0	2.0	332.0
Laurier		0.8	0.5	18.8	18.5	6.2	10.5		0.5	55.8
Leavenworth			T.	50.0	24.0	13.0	6.5			93.5
Lind				13.2	6.9	1.5				21.6

Monthly and seasonal snowfall, 1922-23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Washington—Continued.										
Locke	(*)	(*)	.....	27.2	18.7	14.4	5.0	.....	.....	.....
Longmires Springs	.....	T.	7.5	86.0	78.5	41.5	62.0	12.0	3.0	290.5
Lost Creek	.....	T.	T.	14.0	7.0	2.0	1.0	.....	.....	24.0
Mill Creek	.....	.....	0.5	27.5	12.5	42.5	3.0	T.	.....	86.0
Mottinger	.....	.....	.....	2.0	.....	7.0	.....	.....	.....	9.0
Moxee	.....	.....	T.	8.8	1.0	1.8	0.1	.....	.....	11.7
Nespelem	.....	.....	.....	7.6	5.0	7.5	.....	.....	.....	20.1
North Head	.....	.....	.....	2.2	1.8	3.4	T.	.....	.....	7.4
Oakville	.....	.....	.....	16.0	2.0	18.0	T.	.....	.....	36.0
Odessa	.....	.....	0.5	19.0	5.0	5.7	T.	T.	T.	30.2
Omak	.....	.....	.....	9.5	4.5	2.0	.....	.....	.....	16.0
Paradise Inn	3.5	30.0	48.0	131.0	104.0	60.5	79.0	58.0	44.0	[19] 565.0
Peola	.....	T.	.....	22.8	9.0	19.0	9.0	T.	.....	59.8
Pomeroy	.....	.....	1.2	7.9	2.0	9.2	.....	.....	.....	20.3
Port Angeles	.....	.....	.....	18.3	2.2	29.8	0.3	.....	.....	50.6
Port Townsend	.....	.....	.....	19.5	T.	4.0	1.0	.....	.....	24.5
Prosser	.....	.....	T.	8.5	T.	2.0	.....	.....	.....	10.5
Pullman	.....	.....	2.8	25.5	15.2	13.2	7.5	T.	.....	64.2
Puyallup	.....	.....	.....	2.5	3.0	16.0	T.	.....	.....	21.5
Quilcene	.....	.....	.....	12.4	0.2	16.2	T.	.....	.....	28.8
Republic	.....	T.	0.8	17.0	13.5	6.0	4.3	0.8	T.	42.4
Rimrock	.....	.....	1.3	67.9	29.8	13.5	17.5	.....	.....	130.0
Ritzville	.....	.....	0.5	10.2	9.0	8.5	.....	.....	.....	28.2
Rock Island	.....	.....	T.	26.7	1.8	3.6	.....	.....	.....	32.1
Rosalia	.....	.....	2.0	17.5	4.6	7.4	1.4	.....	.....	32.9
Scenic	(*)	(*)	4.0	98.0	70.0	47.0	94.0	4.0	.....	.....
Seattle	.....	.....	.....	11.2	1.0	17.4	0.7	.....	.....	30.3
Sequim	.....	.....	.....	25.5	0.7	11.5	T.	.....	.....	37.7
Silverton	.....	3.0	3.8	41.5	34.0	(*)	26.5	0.5	T.	.....
Sixprong	.....	.....	0.3	9.5	1.2	3.5	.....	.....	.....	14.5
Snoqualmie Falls	.....	.....	T.	33.0	6.0	16.2	3.0	.....	.....	58.2
Snoqualmie Pass	.....	2.0	9.0	103.0	85.0	35.0	32.0	10.0	8.0	284.0
Snyders Ranch	.....	.....	8.4	51.2	58.0	8.8	2.0	0.5	.....	128.9
South Bend	.....	.....	.....	4.0	1.0	10.5	.....	.....	.....	15.5
Spokane	.....	.....	T.	31.0	5.4	17.3	3.1	T.	T.	56.8
State University	.....	.....	.....	12.5	0.5	16.0	0.5	.....	.....	29.5
Stehekin	.....	.....	1.5	63.0	71.0	25.0	10.0	.....	T.	170.5
Stokes Ranch	.....	0.5	8.0	35.5	48.5	4.5	4.5	1.2	.....	102.7
Sunnyside	.....	.....	.....	3.5	T.	1.8	T.	.....	.....	5.3
Tacoma	.....	.....	.....	8.0	5.0	22.0	T.	.....	.....	35.0
Tatoosh Island	.....	.....	.....	4.0	.....	14.0	.....	.....	.....	18.0
Tieton Canyon	.....	.....	1.0	49.0	18.0	8.0	10.0	2.0	.....	88.0
Timentwa	.....	.....	1.0	15.0	16.0	10.0	2.0	2.0	.....	46.0
Touchet Ridge	.....	.....	1.0	42.0	34.0	28.5	19.5	2.0	2.0	129.0
Trinidad	.....	.....	.....	7.0	5.0	5.0	.....	.....	.....	17.0
Twin Sister Lakes	(*)	(*)	25.0	99.0	63.0	38.0	(*)	(*)	(*)	.....
Tye	(*)	(*)	10.0	78.0	102.0	38.0	79.0	12.0	(*)	.....
Upper Cle Elum Valley	(*)	(*)	13.0	128.0	148.0	41.0	90.0	9.0	(*)	.....
Vancouver	.....	.....	.....	10.7	0.7	11.7	.....	.....	.....	23.1
Vashon Island	.....	.....	.....	1.0	2.0	20.0	T.	.....	.....	23.0
Wahluke	.....	.....	T.	11.0	.....	T.	.....	.....	.....	11.0
Wallace	.....	0.4	3.4	18.0	26.1	4.7	3.7	0.5	.....	56.8
Walla Walla	.....	.....	0.2	13.4	1.6	16.1	T.	.....	.....	31.3
Waterville	.....	.....	4.0	21.0	7.8	8.5	1.5	1.5	.....	44.3
Wenatchee	.....	.....	T.	47.0	10.0	18.2	1.5	.....	.....	76.7
Wenatchee (near)	.....	.....	0.5	43.0	7.5	18.8	1.8	.....	.....	71.6
Wheeler	.....	.....	3.0	14.0	T.	1.0	.....	.....	.....	18.0
Wilbur	.....	.....	1.3	18.0	15.0	10.0	T.	2.0	.....	46.3
Willard	(*)	(*)	(*)	45.0	38.0	29.0	1.0	(*)	(*)	.....
Wind River	.....	.....	.....	48.5	46.0	34.5	11.2	.....	.....	140.2
Winthrop	.....	.....	9.0	30.0	28.5	8.0	2.0	T.	.....	77.5
Yakima	.....	.....	T.	10.7	1.4	2.6	0.5	.....	.....	15.2
West Virginia.										
Bancroft	.....	.....	0.8	5.5	0.9	4.2	0.6	.....	1.1	13.1
Bayard	.....	.....	4.0	4.5	13.0	19.5	13.0	2.0	5.0	61.0
Beckley	.....	.....	2.0	1.0	2.4	5.0	3.0	.....	10.0	23.4
Bens Run	.....	.....	2.0	9.0	1.0	9.5	1.0	.....	T.	22.5
Bluefield	.....	.....	1.5	T.	5.0	5.5	1.2	.....	T.	13.2

[19] Includes June, 1923: Paradise Inn, 7.0.

Monthly and seasonal snowfall, 1922–23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
West Virginia—Continued.										
Brandywine	.....	.....	T.	2.0	11.0	2.5	4.0	.....	T.	19.5
Bruceton Mills	.....	.....	3.8	6.2	10.2	16.2	10.4	T.	2.5	49.3
Buckhannon	.....	.....	3.5	6.0	2.5	12.2	(*)	.....	4.0	.....
Cairo	.....	.....	0.5	8.0	T.	5.5	0.6	.....	T.	14.6
Charleston	.....	.....	T.	0.2	T.	4.0	T.	.....	T.	4.2
Cortland	.....	.....	0.4	4.0	13.0	17.0	9.0	.....	4.0	47.4
Creston	.....	.....	0.4	2.5	T.	4.5	0.3	.....	T.	7.7
Elkins	.....	.....	4.6	4.5	7.1	9.6	2.8	T.	0.5	29.1
Fairmont	.....	.....	1.3	7.0	2.0	11.6	0.5	T.	T.	22.4
Glenville	.....	.....	0.5	6.0	0.2	7.0	0.5	.....	0.2	14.4
Green Sulphur Springs	.....	.....	6.0	1.0	3.0	9.0	3.0	.....	5.0	27.0
Harpers Ferry	.....	.....	T.	4.5	7.0	5.0	6.0	1.0	.....	23.5
Hinton	.....	.....	0.5	T.	3.0	6.5	T.	.....	T.	10.0
Huntington	.....	.....	0.4	2.2	0.4	2.3	0.5	.....	T.	5.8
Lewisburg	.....	.....	2.0	T.	1.5	6.0	T.	.....	T.	9.5
Lost Creek	.....	.....	0.5	4.5	2.5	7.5	1.5	.....	0.5	17.0
Mannington	.....	.....	0.7	4.9	2.9	6.6	2.1	.....	2.4	19.6
Parkersburg	.....	.....	0.4	3.0	0.2	6.0	0.1	.....	T.	9.7
Philippi	.....	.....	0.8	2.0	1.2	9.0	0.5	.....	1.0	14.5
Pickens	.....	.....	7.0	5.0	21.0	31.0	20.0	T.	9.0	93.0
Raleigh	.....	.....	1.8	1.0	2.0	3.5	0.5	.....	.....	8.8
Ryan	.....	.....	0.9	5.7	2.1	4.4	1.9	.....	2.3	17.3
Smithfield	.....	.....	1.5	8.5	1.8	10.8	1.0	.....	T.	23.6
Wellsburg	.....	.....	2.0	2.0	0.5	8.3	1.0	.....	T.	13.8
Weston	.....	.....	1.0	5.0	2.0	7.5	2.0	.....	T.	17.5
Wheeling	.....	.....	0.3	1.3	2.4	6.9	5.3	.....	0.3	16.5
Williamson	.....	.....	.....	0.5	0.3	1.5	T.	.....	T.	2.3
Wisconsin.										
Ashland	.....	.....	1.5	15.2	25.0	5.0	17.0	2.5	2.0	68.2
Beloit	.....	.....	T.	5.0	5.0	7.4	17.0	3.5	T.	37.9
Brodhead	.....	.....	T.	5.5	4.0	8.5	24.0	6.2	0.7	48.9
Burnett	.....	T.	0.3	3.5	12.5	8.3	15.6	7.0	1.3	48.5
Cecil	(*)	T.	T.	3.5	13.0	12.0	22.0	11.0	1.0	.....
Coddington	.....	.....	T.	5.0	8.0	4.5	20.5	(*)	T.	.....
Cornucopia	.....	T.	4.2	14.1	19.6	5.5	11.7	1.2	3.6	59.9
Deerskin Dam	.....	1.5	3.2	9.0	13.0	3.0	11.4	6.5	3.0	50.6
Eau Claire	.....	T.	0.5	3.0	12.4	6.9	21.7	8.8	T.	53.3
Florence	.....	1.0	2.0	16.0	26.0	6.5	30.0	27.0	0.5	109.0
Fond du Lac	.....	.....	T.	5.0	25.5	10.0	32.2	5.5	T.	78.2
Grand River Locks	.....	.....	.....	4.3	7.5	6.8	15.0	4.0	T.	37.6
Grantsburg	.....	T.	T.	1.5	20.5	3.5	8.5	7.0	T.	41.0
Green Bay	.....	T.	T.	3.6	20.1	11.1	32.1	12.5	0.2	79.6
Hatfield	.....	T.	T.	3.0	11.0	9.6	22.2	4.0	1.5	51.3
High Falls	.....	T.	T.	6.5	27.0	9.0	19.5	19.2	6.6	87.8
Hillsboro	.....	.....	T.	4.0	13.5	8.5	20.0	5.5	2.0	53.5
Koepenick	.....	3.0	0.4	3.0	15.0	5.0	21.0	16.0	4.0	67.4
La Crosse	.....	.....	0.3	4.4	9.4	8.9	26.1	2.0	0.4	51.5
Madison	.....	.....	T.	9.4	11.0	10.5	28.4	6.4	0.5	66.2
Manitowoc	.....	.....	T.	5.5	16.0	16.2	35.0	11.2	1.5	85.4
Medford	.....	0.5	2.0	4.0	15.0	6.0	19.0	7.0	5.0	58.5
Milwaukee	.....	.....	T.	8.2	18.6	10.2	35.8	6.8	1.2	80.8
Minocqua	.....	T.	2.0	6.5	17.5	7.0	17.5	12.0	4.0	66.5
Mondovi	.....	T.	T.	4.0	7.0	10.0	18.5	2.0	5.0	46.5
Park Falls	.....	1.0	3.0	11.0	26.0	4.0	24.5	18.5	1.5	89.5
Prairie du Chien	.....	.....	1.0	4.0	5.0	5.0	19.0	7.0	T.	41.0
Prentice	.....	0.6	4.0	2.3	19.5	6.0	14.5	16.0	0.4	63.3
Racine	.....	.....	T.	6.0	5.5	5.0	2.0	0.5	1.0	20.0
Rhinelander	.....	T.	2.0	6.0	17.0	7.0	20.0	21.0	6.0	79.0
Ripon	.....	.....	T.	5.0	14.0	14.0	26.5	5.0	1.0	65.5
River Falls	.....	T.	1.3	1.3	12.6	4.5	13.6	8.3	1.5	43.1
Sheboygan	.....	.....	0.2	7.0	16.9	7.5	(*)	6.0	2.0	.....
Solon Springs	.....	0.5	2.0	6.0	22.0	1.0	14.0	6.0	T.	51.5
Sturgeon Bay	.....	T.	T.	6.5	15.0	9.0	22.0	12.0	1.0	65.5
Superior	.....	.....	T.	8.8	18.8	1.5	15.3	0.8	0.6	45.8
Wausau	.....	T.	0.7	4.5	14.2	17.4	28.2	15.4	T.	80.4
Weyerhauser	.....	T.	0.5	3.3	24.0	6.0	12.0	16.2	2.0	64.0
Williams Bay	.....	.....	.....	6.0	5.0	7.2	25.5	5.7	2.0	51.4
Wisconsin Rapids	.....	.....	0.4	6.3	7.8	9.5	19.4	21.1	0.6	65.1

Monthly and seasonal snowfall, 1922-23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Wyoming.										
Alta	.....	1.0	12.1	30.9	13.5	22.0	12.0	6.0	T.	[6] 97.5
Barnum	(*)	(*)	(*)	(*)	(*)	(*)	4.0	24.0	5.0	.....
Basin	.....	2.5	2.5	5.7	2.1	0.5	6.5	6.4	.....	26.2
Bedford	(*)	(*)	9.0	31.0	36.0	10.0	19.5	18.5	.....	(*)
Big Creek	T.	3.0	7.0	35.7	15.1	19.6	41.8	21.0	5.1	148.3
Border	.....	4.5	11.0	16.5	26.3	6.0	26.3	8.0	.....	98.6
Bow Ranger Station	T.	15.0	9.0	17.7	11.0	26.0	33.0	27.0	10.0	148.7
Buffalo	(*)	(*)	(*)	4.7	4.5	5.5	13.0	13.5	.....	.....
Casper	.....	9.5	13.0	13.3	6.8	8.8	20.8	7.5	3.5	83.2
Centennial	.....	9.6	10.0	19.3	24.9	5.3	28.0	10.2	4.0	111.3
Cheyenne	.....	2.5	22.5	4.8	0.7	6.8	15.6	14.4	0.3	67.6
Chugwater	.....	3.0	17.0	7.5	.....	8.5	16.0	11.0	.....	63.0
Clark	.....	1.0	9.5	9.0	0.1	4.3	3.3	5.0	T.	32.2
Clearmont	.....	(*)	(*)	(*)	3.8	2.8	(*)	12.6	.....	.....
Cody	.....	11.0	9.0	14.0	T.	3.5	9.0	7.5	.....	54.0
Colony	.....	7.0	10.5	8.0	7.2	6.0	17.0	22.0	.....	77.7
Crandall Creek	.....	9.0	17.0	12.0	22.0	6.0	15.0	11.0	1.0	93.0
Deaver	.....	T.	(*)	1.5	T.	0.2	2.5	(*)	.....	.....
Diversion Dam	.....	T.	6.5	T.	9.0	6.0	7.0	6.0	.....	34.5
Dixon	(*)	3.5	4.0	34.4	9.4	11.5	7.5	(*)	.....	.....
Dome Lake	(*)	36.0	17.5	19.5	16.8	17.0	55.0	52.0	(*)	.....
Douglas	.....	3.5	7.5	8.5	2.5	(*)	(*)	(*)	(*)	.....
Dubois	.....	6.0	3.5	5.0	3.0	3.0	(*)	(*)	(*)	.....
Dutch Joe	.....	8.0	15.5	(*)	68.0	27.0	48.0	(*)	7.0	.....
Dwyer	.....	4.0	14.0	9.0	T.	2.0	6.0	13.0	2.0	50.0
Echeta	.....	8.0	8.0	5.0	2.0	10.0	21.0	5.0	T.	59.0
Eden	.....	(*)	.....	5.7	(*)	(*)	(*)	(*)	(*)	.....
Elk Mountain	.....	7.0	T.	19.0	6.0	14.0	29.0	19.0	2.0	96.0
Encampment	.....	3.0	5.0	15.0	8.0	13.0	14.0	2.0	1.0	61.0
Ervay	.....	27.0	10.5	8.0	9.5	16.0	31.0	24.5	6.0	132.5
Evanston	.....	2.0	14.0	15.0	14.5	7.0	10.0	18.5	T.	[6] 81.0
Fort Laramie	.....	T.	14.0	4.4	T.	5.2	(*)	(*)	(*)	.....
Foxpark	.....	9.0	17.8	32.0	27.0	16.0	19.0	22.0	13.0	155.8
Gillette	.....	7.0	(*)	(*)	2.5	(*)	(*)	(*)	(*)	.....
Green River	.....	0.2	6.3	(*)	(*)	(*)	(*)	1.9	.....	.....
Hampshire (near)	.....	3.0	4.0	2.0	2.8	2.2	5.7	5.5	0.2	25.4
Hecla	.....	5.0	23.0	5.3	2.0	10.7	20.3	17.0	T.	83.3
Hunter's Station	.....	9.0	21.0	3.0	12.5	6.5	60.0	74.0	7.9	193.9
Hyattville	.....	(*)	(*)	3.5	(*)	(*)	(*)	.....	(*)	.....
Judson	(*)	3.0	11.5	6.2	2.9	6.2	(*)	(*)	(*)	.....
Kendall	.....	4.0	(*)	(*)	42.2	14.0	25.5	12.0	(*)	.....
Kirtley	.....	8.0	14.0	10.0	.....	8.0	9.5	18.0	29.0	96.5
Knowles	.....	10.0	34.6	8.8	4.4	10.3	17.0	20.3	.....	105.4
Lagrange	.....	2.5	23.0	9.5	1.5	14.0	7.0	9.0	2.0	68.5
Lander	.....	16.0	13.7	0.3	3.9	8.1	18.8	21.0	2.8	84.6
Laramie	.....	5.0	15.0	4.7	10.2	10.5	17.0	9.1	8.0	79.5
Lovell	.....	.....	3.6	4.2	4.4	3.2	1.0	.....	.....	16.4
Lusk	.....	2.0	9.0	6.0	2.0	2.5	6.5	19.5	2.5	50.0
Lyman	.....	5.0	13.2	17.9	10.2	5.8	14.6	13.3	T.	80.0
Middle Fork Ranger Station	.....	21.1	(*)	10.5	8.0	24.7	32.4	51.0	(*)	.....
Moran	.....	3.0	8.0	15.0	33.0	(*)	35.0	(*)	6.0	.....
Newcastle	.....	3.0	11.0	3.0	8.0	5.5	5.5	4.0	.....	40.0
Nine Mile Creek	(*)	(*)	(*)	2.0	2.0	0.6	4.7	20.2	.....	.....
Painter	.....	20.0	11.0	(*)	(*)	(*)	(*)	(*)	(*)	.....
Pathfinder	.....	7.5	9.0	3.5	6.5	9.5	3.5	3.6	0.5	43.6
Pavillion	(*)	(*)	6.0	.....	7.0	(*)	7.0	8.0	.....	.....
Pinedale	.....	6.0	11.0	12.2	17.0	8.8	17.0	2.7	T.	74.7
Powell	.....	1.0	2.5	3.0	0.1	0.1	2.6	0.3	T.	9.6
Quaking Aspen Creek	.....	14.8	17.8	T.	1.0	10.6	34.0	30.0	2.3	110.5
Rawlins	.....	1.0	4.0	11.5	1.0	10.2	7.5	9.5	1.0	45.7
Riverton	.....	4.0	10.0	1.0	4.2	6.0	9.0	16.0	.....	50.2
Rockypoint	.....	12.0	7.0	7.5	4.0	9.0	16.5	10.5	1.0	67.5
Sage	(*)	(*)	(*)	(*)	7.0	1.0	5.0	7.0	.....	.....
Salt Creek	.....	4.0	5.0	7.0	9.5	7.0	16.0	6.1	.....	54.6
Saratoga	.....	T.	1.0	5.5	3.0	11.5	8.0	(*)	.....	.....
Sheridan	.....	8.1	6.6	7.0	6.1	6.4	18.6	16.3	T.	69.1
Sheridan Field Station	.....	6.0	6.0	8.5	1.4	4.0	15.0	15.1	.....	56.0
Shoshone Dam	.....	3.0	1.0	14.0	.....	3.0	7.0	10.5	.....	38.5

[6] Trace in June, 1923.

Monthly and seasonal snowfall, 1922–23—Continued.

Stations.	1922				1923					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
***Wyoming*—Continued.**										
South Pass City	.....	3.5	5.2	22.0	22.7	12.1	15.0	16.8	3.0	100.3
Spencer (near)	.....	4.0	3.0	4.0	2.0	8.0	3.0	.....	.....	27.0
Sundance	.....	9.0	23.0	11.0	18.5	17.0	21.5	13.0	.....	113.0
Thermopolis	.....	6.0	6.0	1.0	8.0	8.0	8.0	(*)	.....	.....
Torrington	.....	2.0	21.0	(*)	T.	(*)	(*)	(*)	.....	.....
Upton	.....	5.5	8.0	2.5	9.5	5.6	4.0	3.5	.....	38.6
Verona	.....	7.0	8.0	15.0	3.5	9.0	21.0	19.0	.....	82.5
Wheatland	(*)	3.0	(*)	6.0	.....	3.0	(*)	(*)	.....	.....
Willow Springs Ranger Station	.....	4.5	(*)	14.0	10.0	(*)	(*)	9.0	(*)	.....
Worland	.....	1.0	6.0	4.7	3.9	1.4	2.0	1.5	.....	20.5
Yoder	.....	.....	(*)	(*)	.....	(*)	11.5	10.0	.....	.....
Yellowstone Park	.....	3.0	11.9	23.6	17.0	6.7	12.8	14.1	0.6	[20] 89.8
Buffalo Ranch	(*)	T.	(*)	(*)	2.0	5.0	10.0	10.0	.....	.....
Gallatin	T.	(*)	(*)	20.5	7.5	3.5	10.9	18.0	T.	([21])
Lake Yellowstone	.....	T.	8.0	21.0	34.5	17.0	7.0	19.0	7.0	[20] 113.5
Riverside	(*)	3.0	18.0	(*)	27.5	8.0	(*)	(*)	.....	.....
Snake River	.....	2.0	14.0	46.5	61.5	15.0	47.0	16.0	2.0	204.0
Canadian stations.										
St. Johns, Newfoundland	(*)	(*)	5.0	30.0	28.0	13.0	46.0	4.0	.....	.....
Fogo, Newfoundland	.....	T.	12.4	45.6	49.6	34.2	59.5	19.0	T.	220.3
Port aux Basques, Newfoundland	.....	3.4	17.3	58.9	40.1	26.4	58.9	14.1	0.1	219.2
Sydney, Cape Breton Island	.....	T.	12.0	38.0	36.5	11.5	47.0	7.0	.....	152.0
Halifax, Nova Scotia	.....	3.5	3.4	24.3	26.1	19.1	27.6	1.6	.....	105.6
Yarmouth, Nova Scotia	.....	1.9	2.8	(*)	7.0	21.2	31.4	7.0	.....	.....
St. John, New Brunswick	.....	0.1	4.6	39.6	37.1	20.3	37.0	7.3	.....	146.0
Charlottetown, Prince Edward Island	(*)	T.	0.3	24.5	43.5	4.0	25.0	2.5	.....	.....
Chatham, New Brunswick	.....	0.4	7.8	28.6	34.1	3.6	23.1	5.3	.....	102.9
Anticosti, Quebec	.....	1.5	9.5	17.0	26.5	4.5	28.5	11.0	.....	98.5
Father Point, Quebec	.....	1.2	12.4	21.0	12.5	7.0	20.3	12.0	.....	86.4
Quebec, Quebec	.....	2.1	9.9	28.0	33.4	26.1	29.0	18.6	T.	147.1
Montreal, Quebec	.....	3.5	1.9	15.0	22.5	23.6	24.4	9.7	T.	100.6
Ottawa, Ontario	.....	3.0	2.8	15.4	30.7	24.2	24.1	2.6	T.	102.8
Kingston, Ontario	.....	1.0	0.8	4.6	12.1	8.2	11.7	1.0	.....	39.4
Toronto, Ontario	.....	T.	5.3	11.8	28.5	10.5	20.5	2.5	1.5	80.6
Port Stanley, Ontario	.....	.....	12.4	9.5	29.8	8.1	8.3	2.1	2.1	72.3
Southampton, Ontario	.....	1.1	7.0	22.5	22.7	23.9	22.7	6.2	14.0	120.1
Parry Sound, Ontario	.....	3.6	12.2	24.4	24.6	19.7	27.4	4.2	6.0	122.1
Cochrane, Ontario	T.	3.8	5.7	18.0	7.0	1.0	10.0	7.5	T.	53.0
White River, Ontario	.....	1.2	3.8	19.9	10.2	10.1	22.2	3.1	.....	70.5
Port Arthur, Ontario	.....	T.	4.5	13.7	8.4	2.9	8.3	0.6	.....	38.4
Winnipeg, Manitoba	.....	1.8	6.4	13.7	16.5	10.3	12.9	5.7	0.2	67.5
Minnedosa, Manitoba	.....	0.8	19.3	5.9	6.9	8.0	16.1	11.2	T.	68.2
The Pas, Manitoba	.....	0.2	1.4	2.2	7.7	4.0	3.0	1.0	0.7	20.2
Port Nelson, Manitoba	T.	15.1	22.3	.....	7.0	0.5	.....	0.2	.....	[22] 45.1
Qu'Appelle, Saskatchewan	.....	6.2	21.0	9.4	14.0	7.8	16.8	12.0	.....	87.2
Moose Jaw, Saskatchewan	.....	3.5	6.3	7.0	4.3	6.1	2.0	6.2	T.	35.4
Swift Current, Saskatchewan	.....	.....	4.4	4.1	4.0	3.6	5.5	4.7	.....	26.3
Medicine Hat, Alberta	.....	.....	2.4	7.1	7.0	39.0	4.3	2.3	.....	62.1
Calgary, Alberta	.....	.....	1.8	2.9	3.0	5.9	22.5	7.5	.....	43.6
Banff, Alberta	.....	1.4	2.3	6.0	8.0	2.3	3.7	13.7	2.7	40.1
Prince Albert, Saskatchewan	.....	0.8	0.5	4.1	4.5	0.7	3.1	7.4	0.1	21.2
Battleford, Saskatchewan	.....	.....	T.	4.4	5.5	1.0	2.6	3.0	2.0	18.5
Edmonton, Alberta	.....	4.0	2.3	6.2	10.5	6.1	15.8	0.1	T.	45.0
Kamloops, British Columbia	.....	.....	T.	9.7	3.0	4.5	1.0	.....	.....	18.2
Victoria, British Columbia	.....	.....	.....	16.7	1.4	28.8	T.	.....	.....	46.9
Barkerville, British Columbia	9.7	14.9	20.5	37.5	29.5	26.0	63.0	5.5	7.2	213.8
Bull Harbor, British Columbia	.....	.....	.....	19.0	3.0	10.0	.....	.....	.....	32.0
Prince Rupert, British Columbia	.....	.....	.....	9.2	19.2	2.2	3.2	.....	.....	33.8
Atlin, British Columbia	.....	7.2	10.6	6.0	5.0	8.0	3.6	4.5	0.4	[23] 47.8
Dawson, Yukon	9.4	2.9	43.0	5.2	8.0	16.5	17.6	1.4	2.6	[23] 107.6
Prospect Point, Bermuda	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0

[20] Includes June, 1923: Yellowstone Park, 0.1; Lake Yellowstone, T.
[21] 2.0 at Gallatin, June, 1923.
[22] Trace at Port Nelson, August, 1922.
[23] Includes August, 1922: Atlin, 2.5; Dawson, 1.0.

EVAPORATION, 1922.

Monthly and annual evaporation (in inches and hundredths) for 1922.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Alabama.													
Silverhill	2.93	3.25	4.60	5.98	6.01	6.87	6.15	6.30	5.71	3.82	3.14	2.72	57.48
Arizona.													
Lee's Ferry	1.74	3.04	5.39	7.56	11.20	12.73	14.67	10.16	9.67	7.61	3.04	2.15	88.96
Mesa	2.78	3.81	5.38	8.66	11.48	11.99	10.33	7.50	5.74	4.35	3.50	2.03	77.55
Roosevelt	2.12	2.87	4.93	7.04	10.33	12.79	13.25	10.91	9.71	7.34	3.53	1.78	86.60
Willcox	3.15	4.59	5.00	5.51	6.85								
Yuma	2.71	3.32	5.38	7.64	8.38	9.13	17.82	8.97	8.33	5.64	3.18	1.97	82.47
Yuma (Citrus)	3.84	5.49	7.66	10.81	13.75	15.39	10.31	13.27	11.40	8.73	5.39	3.54	109.58
California.													
Chula Vista	2.88	3.29	4.77	5.37	6.22	6.40	6.87	6.93	5.93	4.97	3.47	2.18	59.28
Dodgeland	1.13	1.00	3.05	6.55	8.15	9.16	8.92	7.63	4.92	1.03	2.69	0.96	55.19
Oakdale	1.08	1.88	3.14	5.72	9.89	12.22	15.34	13.24	11.79	6.04	1.74	1.06	83.14
Tahoe					3.62	4.64	5.33	4.47	3.24	3.44	2.45		
Tiona		4.41											
Hawaii.													
Hoaeae Upper	3.45	3.52	4.71	5.36	6.43	6.46	7.84	7.30	5.02	4.57	3.70	3.50	61.86
Maunawili	2.92	2.56	4.26	3.87	4.20	4.12	4.36	4.43	4.00	2.98	3.13	2.78	43.61
Idaho.													
Arrowrock				3.70	5.64	8.63	10.50	8.64	6.66	3.45			
Deer Flat					7.20	7.18	8.58		4.95				
Jerome				3.89	6.63	6.65	6.51	3.77	2.64	1.75			
Mud Lake					9.49	10.47	10.43	9.00	7.65	4.83			
Kansas.													
Tribune					9.49	14.05	12.71	14.01	8.01	8.00			
Wichita				5.51	6.34	8.90	8.25	10.05	9.46	6.45			
Maine.													
Gardiner (land pan)					5.38	4.10	5.43	4.83	3.53	1.92			
Minnesota.													
Centerville					5.75	7.56	6.20	5.87	4.23	2.80			
Missouri.													
Columbia				4.46	5.24	6.10	6.24	5.68	3.24	2.06	1.42		
University of Missouri				4.66	6.09	7.61	7.70	7.56	5.79	3.84	2.31		
Nebraska.													
Lincoln				5.48	7.36	10.02	7.88	8.54	8.82	6.56			
Nevada.													
Lamoille							9.58	7.74	7.35	4.17		2.31	
Pahrump		3.15	5.68	6.75	10.05	11.77	11.73	8.39	8.39	3.49	2.65	2.31	
New Mexico.													
Agricultural College	3.30	5.84	8.24	10.11	12.69	13.62	13.24	11.02	8.08	5.72	3.45	2.72	98.03
Elephant Butte Dam	3.67	5.54	8.06	11.19	14.34	14.09	13.86	12.20	8.97	7.63	3.80	2.75	106.10
Gibson							12.23	9.86	8.79	6.47		1.77	
Lake Avalon			5.88		8.66	8.54							
Santa Fe	1.42	2.16	3.60	5.77	10.18	10.45	10.26	8.93	7.12	5.18	1.86	1.26	68.19
Tucumcari							12.38		8.17				
New York.													
Albany					5.78	4.32	5.31	4.56	3.11				
Ithaca					4.74	4.96	5.81	5.11	7.05	2.73			
North Carolina.													
Chapel Hill		1.10	2.97	3.82	4.50	4.88	5.39	4.68	4.30	3.04	1.75	1.46	
Ohio.													
Ohio State University				3.96	4.69	5.69	6.12	4.91	4.02	2.34			
Wooster				3.53	4.08	5.67	6.17	5.41	4.25	2.22			
Oregon.													
Corvallis							8.28	6.05	5.28				
Porto Rico.													
San Juan	5.27	5.86	7.54	7.53	7.10	7.04	8.05	8.41	6.74	5.60	6.53	6.46	82.13
South Dakota.													
Rapid City				3.14	5.97								
Texas.													
Austin	2.84	3.35	5.60	4.96	6.63	6.64							
Beeville	2.78	3.19	4.54	4.49	5.52	6.25	8.20	8.69	5.37	4.94	2.76	3.03	59.76
Hill's Ranch (floating pan)	2.36	2.65	4.77	4.65	4.95	5.49	8.88	8.39	6.70	6.03	2.73	2.73	60.33
Spur	3.13	4.12	5.97	5.94	6.70	7.85	10.93	9.04	7.34	5.14	2.90	2.69	71.76
Utah.													
Myton					7.99	9.05	9.44	7.73	6.46	4.10			
Piute Dam					5.80	11.74	11.32	8.21	7.85	5.65			
Provo				3.51	5.42	6.58	6.93	5.64	4.63	2.94			
Sevier Bridge Dam						11.82	13.19	9.66	9.00				
Virgin Islands.													
St. Croix							8.02	8.43		5.52	4.90	4.41	
Washington.													
Lake Kachess					3.60	6.41	6.75	4.24	2.20				
Walla Walla			2.00	3.67	5.21	9.59	11.56	7.75		2.43			

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