U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

REPORT

OF THE

CHIEF OF THE WEATHER BUREAU

1921-1922

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LETTER OF TRANSMITTAL.

UNITED STATES DEPARTMENT OF AGRICULTURE,
WEATHER BUREAU,
Washington, September 12, 1922.

SIR: I have the honor to submit herewith a report of the operations of the Weather Bureau during the fiscal year ended June 30, 1922.

Respectfully,

C. F. MARVIN,
Chief of Bureau.

Hon. HENRY C. WALLACE,
Secretary of Agriculture.

CONTENTS.

	Page.
Part I.—Administrative report	5
Forecast service	7
Radio distribution of forecasts and weather information	11
River and flood service	15
Agricultural meteorology	17
Stations and accounts division	18
Telegraph division	20
Aerological investigations	23
Climatological work	24
Printing	26
The Monthly Weather Review	27
Investigations in seismology	27
Volcanology	28
Library	28
Marine meteorology	28
Instrument division	28
Investigations in solar radiation	29
Part II.—General summary of the weather conditions in the United States, by months, during the year 1921	31
Tornadoes, 1921	38
Hail, 1921	50
Losses from wind storms, 1921	51
Charts of temperature, precipitation, tornadoes, and hail, 1921	facing 52
Annual summary, Canadian stations, 1921	53
List of observing stations and changes therein during 1921	54
Sunshine, 1921	61
Details of excessive rainfall, 1921	68
Part III.—Climatology: Monthly and annual meteorological summaries, 1921	87
Part IV.—Climatology: Monthly and annual amounts of precipitation, 1921	197
Monthly and seasonal snowfall, 1921–2	247
Monthly and annual amounts of evaporation, 1921	276

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PART I.

ADMINISTRATIVE REPORT.

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REPORT

OF THE

CHIEF OF THE WEATHER BUREAU.

Another year of progress and growth of the Nation has passed, during which the Weather Bureau has maintained its operations and service in a normal and efficient manner. There is an increasing use made of advices, warnings, and information supplied by the Weather Bureau to the public and those interested in agriculture, commerce, the industries, and navigation. Use of the Weather Bureau service means preparedness for future conditions and resulting economic benefits which constitute in a higher degree the justification for the costs of conducting the work.

The program of the daily routine of service is far from a perfunctory one, founded as it is upon hundreds of twice-daily reports of ever-changing, ever-variable weather conditions and their distribution over a wide extent of territory which, in fact, now includes a great part of the Northern Hemisphere. Alert and intensive mental study of daily weather maps on the part of a corps of many experts is essential to the issue of successful advices, warnings, and information. Under the present unsatisfactory conditions of employment in the Weather Bureau, the conservation and recruiting of its corps of experts trained in this work is a very serious matter. In no way is this more convincingly demonstrated than by the results of the thorough and careful study made by the Bureau of Efficiency of the job schedules of Weather Bureau employees, resulting in the allocation of practically all employees of the bureau to salary grades according to the proposed reclassification, appreciably in advance of the compensation these efficient and deserving employees now receive. It seems appropriate to quote the following passage from my annual report of last year:

> The long-promised and long-delayed reclassification of Government salaries is nowhere more greatly needed or justified than in the Weather Bureau. The imaginary economies in withholding urgently needed increases for properly strengthening and recruiting the personnel are not economy but sap and injure the vitality of the organization and are certain to be reflected in future inferiority and inefficiency. Another legislative year should not go by without some concrete congressional enactment making the promised reclassification effective.

The outstanding feature of the past year as regards weather phenomena is undoubtedly the flood conditions. The year ending June 30, 1922, will rank as a great flood year for the entire Mississippi River Basin and others immediately adjacent thereto. Occurring at the time of the practical completion of the levee system and made excessive by nearly simultaneous flood stages in its large tributaries, the 1922 flood in the lower Mississippi River tested the efficiency of the levee method of flood protection in a way which is certain to be of great help to its proponent engineers and possibly will aid critics to show the weaknesses, if any, of such protective schemes.

A number of notable storms, some accompanied by heavy losses, are mentioned in later pages of this report, and still more complete and detailed accounts have been published in the current issues of the Monthly Weather Review, or will appear in separate bulletins.

FORECAST SERVICE.

A hurricane occurred on September 8 to 15 in the Atlantic, passing near Bermuda on the latter date, and another near Bermuda about the 12th, while a third severe cyclonic storm of tropical character occurred about the same time in the southwest Gulf region and probably

caused the torrential rains producing the unprecedented floods in southern Texas of September 9 and 10.

The only hurricane that actually touched continental United States passed over the Florida Peninsula on October 25, 1921, and caused large property damage, mostly from high tides. This storm demonstrated the inestimable value of wireless communication in the hurricane-warning work of the Weather Bureau. It was first detected by a radio report from a ship in the western Caribbean Sea during the afternoon of October 21. Warnings were immediately broadcast to ships in that region. For five days this storm traveled entirely over water areas. Its center, direction of movement, intensity, and rate of progress were determined principally by vessel reports and warnings and advices were radioed four times daily to vessels in the south Atlantic, the Gulf of Mexico, and the Caribbean Sea. The hurricane was approaching the usual course of vessels bound to and from United States and Mexican ports on the Gulf coasts. The observations received from vessels during the progress of the storm clearly indicated that the warnings had been received and heeded. All ships whose courses were in its direction turned back or changed their routes to avoid the hurricane. Only one ship was lost and property amounting to hundreds of thousands of dollars, which could be moved or protected, was saved as a result of the timeliness and accuracy of the warnings.

On June 12, 1922, a tropical disturbance was located in the southwest portion of the Caribbean Sea. It was of moderate intensity but was accompanied by torrential rains in the vicinity of Swan Island. It moved into Honduras and Yucatan, and caused heavy floods in the rivers of Salvador and probably in the adjoining republics. The disturbance passed inland just south of the mouth of the Rio Grande during the morning of June 16, progressed for some distance up that valley, and was attended by excessive rains which caused the greatest flood on record in the lower Rio Grande. Storm warnings were displayed on the southern Texas coast well in advance of the storm and at the same time advices were issued that heavy rains would occur in that region.

Ice storm in New England.—The most disastrous ice or glaze storm in the "memory of the oldest inhabitants" and within the period of official records occurred in New England during the last few days of November, 1921. It was the result of a cyclone that was central over South Carolina on the 27th and a slight barometric depression that apparently formed over the Atlantic a little to the southward of Nantucket during the night of November 26 and 27. The southern storm moved rapidly northeastward, gained great intensity, and on the evening of the 29th its center was off Cape Cod. It caused gales and high tides on the middle Atlantic and New England coasts and heavy precipitation. In parts of New England, especially Massachusetts, rain fell with air temperatures below the freezing point. Heavy snow had preceded the rain. The latter continued for about three days, during many hours of which period the surface temperatures were below freezing. The rain froze as it fell and coated trees, telegraph and telephone wires, and other objects. While gales occurred near and off the coast the wind in the ice-storm area was not very high, so that the damage was almost entirely due to the weight of the accumulated ice. Telegraph and telephone poles were broken, communication was paralyzed, and electric-light plants were put out of commission. Many thousands of trees were ruined and telephone, telegraph, electric light, and railroad companies suffered heavy losses. Some idea of the accumulation of the ice on objects may be gained from the fact that ordinary insulated electric light wires were in many instances ice-coated 2 inches in diameter and weighed about 1.3 pounds to the foot. It required several days to remove the tangle of broken poles and wires and to restore partial transportation and communication services.

Storm on the Great Lakes.—A storm of extraordinary severity raged in the Lake region on December 17 and 18, 1921. The wind velocity at Buffalo equaled the highest on record at that station, 96 miles an hour, and the high winds continued for an unusually long period. During the three hours from 9 a. m. to noon of the 18th it averaged 89.3 miles and hour and 75.6 miles an hour for a period of 12 hours. Timely and adequate warnings were issued, but there was large property damage notwithstanding the warnings and protective measures that were taken.

Sixty-two vessels loaded with grain were anchored in the breakwater harbor at Buffalo but the high winds tore 27 of them from their moorings and swept them onto the beach. The Buffalo Commercial, in an editorial comment on the storm, said:

> It is unlikely that there has been in years a storm of such sustained fury. That there was no greater damage to shipping is due, of course, to the fact that there was ample warning given by the Weather Bureau.

Heavy snowstorm.—One of the heaviest falls of snow on record in some of the Atlantic Coast States occurred during January 27, 28, and 29, 1922. The heavy snowfall was due to a storm that first appeared south of Florida on the 26th and moved up the coast. Its movement north of Cape Hatteras was extremely slow. It was almost stationary for more than 24 hours. In the eastern portions of some of the Middle Atlantic States snow fell continuously for about 36 hours. Snow was especially deep in portions of North Carolina, Virginia, the District of Columbia, Maryland, eastern Pennsylvania, and New Jersey. At Washington, D. C., the official measurement was 28 inches, 8 inches more than the previous record, which latter was during the memorable storm of February 11 to 13, 1899. However, there was an important difference between the storms of 1899 and 1922. In 1899 the snow was accompanied by extremely low temperatures (a minimum of 15° below zero was recorded in Washington) while in the 1922 storm the temperature was only slightly below freezing. On the evening of January 28, while snow was still falling, the roof of the Knickerbocker Theater in Washington collapsed while a performance was in progress, killing 97 people and seriously injuring many others.

Severe squall in New York.—Squalls of a severity unequaled for many years occurred at several places on the Middle Atlantic and New England coasts during the afternoon of June 11, 1922. They were the result of a cyclone of marked intensity which was central over Lake Ontario on the morning of that day. The squalls attained greatest violence in the vicinity of New York City. Much property damage was caused by the high winds and many persons who were out in small pleasure craft were drowned. Unfortunately the squall occurred on a Sunday afternoon when large numbers of pleasure boats were in use. On the morning of June 11 small-craft warnings were ordered for the entire Atlantic coast north of Chesapeake Bay and advices issued that squalls would occur during that afternoon and night. Commenting upon the great amount of damage done by Sunday afternoon's storm, and the many fatalities of which it was directly and indirectly the cause, the New York Times remarked that—

> * * * all had been warned, first, by the definite prediction of the Weather Bureau in the morning papers, and, second, by the ominously black clouds that had been gathering in the west for hours.

Cold waves, frosts, and miscellaneous warnings.—Warnings of cold waves in the cattle and stock-raising sections of the country were accurate and beneficial. Warnings of frosts and low temperatures for the benefit of truck and horticultural interests and shippers of perishable products are in increasing demand and use by those who have learned to utilize this important service.

Applications for special forecasts for special functions were numerous and far exceeded any previous year in the history of the Weather Bureau. During the summer and fall season scarcely a day passed without the forecasters at the five district forecast centers being called on for predictions for lawn parties, State, county, and local fairs, baseball games, social gatherings, etc. Careful consideration is given to all of these requests and in many instances special forecasts in more detail and for a longer period than is covered by the regular daily forecasts are given.

Special forecast service as heretofore was given in connection with airplane and dirigible flights, balloon contests, pigeon races, and for the President's cruises on the *Mayflower*.

Hurricane service.—Some additional funds were provided for this work for the fiscal year beginning with July 1, 1922, and plans were developed for their utilization. Stations of the first order will be established at Brownsville, Tex., and Apalachicola, Fla., and a trained observer will be located at Burrwood, La., during the current hurricane season. It is intended to secure more observations from ships and additional tide reports from points along the Gulf.

However, there is great need for more observations from the areas in which these disturbances occur, and especially for more reports from ships.

Prior to the opening of the hurricane season two officials connected with the forecast service made a tour of inspection of all the stations on the south Atlantic and Gulf coasts. As a result of this inspection a number of changes providing for greater efficiency in the distribution of the hurricane warnings were put into effect, especially in the western Gulf coast section. Prompt distribution of all warnings and advices concerning hurricanes to all places within 130 miles of the coast having post office, telegraph office, or telephone communication were arranged. Much of this was made possible by the cordial cooperation of the railroad companies and other local agencies.

Vessel weather reports.—There is much need for more ship reports, especially from the Gulf of Mexico, the Caribbean Sea, and the Pacific Ocean. Ship observations have become an indispensable factor in forecast work and decidedly so in connection with the issuance of hurricane warnings. This is emphasized by the fact that nine-tenths of the area in which hurricanes occur is water; that the diameter of a hurricane is frequently less than 200 miles, and that many of these storms do not come near land. The Weather Bureau has profited very much by the cordial cooperation of the Shipping Board and several of the large oil companies that operate fleets, from whom, in the aggregate, more weather observations were received from ships at sea than during any previous year.

A portion of the ship reports is furnished by cooperating companies without cost for the observation work, but for the greater part 50 cents an observation is paid. This is insufficient compensation for the time and experience involved in the work, and as a result it has been impossible to interest many ships from which valuable information might be obtained. It is hoped that funds may be provided whereby more adequate payment may be made for ship observations which will go far toward placing this important project on a more efficient and satisfactory basis.

Forecasts in aid of aviation.—The activities in the aid of aviation materially increased during the year. Daily forecasts covering 14 zones into which the country is divided were issued regularly and furnished to Army, Navy, and Post Office officials and to the flying fields. In addition, arrangements were made during the year for broadcasting upper air forecasts for all the zones, except two, from naval radio stations.

Separate and more detailed forecasts were begun in January, 1922, at the request of the Air Service of the Army for the three air routes from Washington to Norfolk, Va., to Long Island, N. Y., and to Dayton, Ohio. They are issued twice daily and contain advices as to weather conditions to be encountered from the surface up to 5,000 feet. These forecasts also are published in morning newspapers in Washington and in Dayton. The requests for special forecasts and weather information from individual aviators before beginning flights have largely increased. This latter information for the most part is supplied by the forecasters by telephone directly to the fliers.

Important and extensive cooperative arrangements between the Air Service and the Weather Bureau were established during the year for the purpose of bringing the aviators of the former service and Weather Bureau officials in the field into closer contact, to the end that forecasts, warnings, and weather information may be made of the greatest possible benefit to Army aviators. This plan involves the visits by Air Service aviators to the field stations of the Weather Bureau for the purpose of personal acquaintanceship, the discussion of weather conditions peculiar to the various sections of the country over which flights are made, the acquiring of knowledge of the facilities at each station, for the furnishing of forecasts and information desired by aviators, and the perfecting of details for the securing of such information promptly and whenever required.

The Weather Bureau collects at its field stations twice-daily observations of weather from all parts of the country at 8 a. m. and 8 p. m., seventy-fifth meridian time. Each of the Air Service fields calls the nearest Weather Bureau station by telephone every morning

and evening when flying operations are being carried out, for the purpose of obtaining the weather forecasts and reports. Fliers when away from their stations are authorized to telegraph or telephone any Weather Bureau station at any time for information as to prevailing and expected weather conditions in a particular section and to receive a prepaid reply. This feature of the service is designed to enable fliers who for any reason are forced to land at other than regular flying fields to secure all possible information which will enable them to avoid danger in returning to their home stations or in reaching their destinations.

Knowledge of the science of meteorology is an important adjunct to expert flying, and a part of the cooperation between the two services includes the delivery of lectures by meteorologists of the Weather Bureau to Air Service aviators on the general work of the weather service, the climatology of various sections of the country, air currents, the physics of the air, and on other meteorological subjects pertinent to aviation. Already a number of these lectures have been delivered and plans are being developed for a material extension of this work.

Circulars announcing the details of the cooperation were issued to all field stations of the two services, in which the Chief of the Air Service enjoined that the matter is "of most vital importance at the present time in connection with cross-country flying, and it is desired that every effort be made to carry out the provisions as outlined."

A similar cooperation exists with the aerological section of the Navy Department. Forecasts and weather reports are furnished with all possible completeness and dispatch to naval bases at which flying operations are conducted. A representative of that service is given desk space and facilities in the forecast room of the Weather Bureau at Washington, where he prepares each morning a weather map synchronously with the charts used for the issuing of the official forecasts of the Weather Bureau. These official forecasts and weather reports are telephoned by him directly from the Weather Bureau office to the naval bases. In this manner the information and advices are transmitted with the least possible delay and with effective results.

Service was rendered for a number of special airplane flights during the year by furnishing detailed forecasts and extra observations at frequent intervals along the route to be followed. One instance of this kind was the journey of a squadron of 12 seaplanes, much of it overland, from Norfolk, Va., to Pensacola, Fla., by way of the Atlantic coast line to Fernandina, Fla., thence overland across the Florida Peninsula to Cedar Keys, and from that point to Pensacola. This journey was undertaken in July, and the various steps in the trips were made in accordance with the forecasts and advices furnished by the Weather Bureau. A seaplane can not land with safety on terra firma, and it was of the utmost importance, both to the success of the undertaking and in safeguarding the lives of the aviators, that no unfavorable weather conditions be encountered, especially for the long overland jump from Fernandina to Cedar Keys. The trip was accomplished without a serious mishap, and the commander of the squadron, in acknowledging the assistance rendered by the forecaster of the Weather Bureau, wrote as follows:

> The commander of air squadrons desires to express his appreciation of the excellent cooperation of the Weather Bureau, both of Washington and Jacksonville, in furnishing weather reports to the air squadrons for the recent flight of 12 F-5-L seaplanes across Florida. The safety of the passage undoubtedly was made more certain thereby, as on the receipt of adverse weather reports the passage of 7 planes was delayed two days, during which severe thunderstorms and rain squalls would have been encountered.

RADIO DISTRIBUTION OF FORECASTS AND WEATHER INFORMATION.

In the annual report for last year it was stated that radiotelegraphy had reached a stage where it must be recognized as a potential medium for the dissemination of weather forecasts, warnings, and information to agricultural interests. It became a realization during the past year. Although wireless telegraphy has been an invaluable factor for many years in the collection of observations from ships and in the distribution of storm and hurricane warnings and weather information to vessels at sea, it was used only to a limited extent for interior service because all messages were necessarily transmitted in the telegraphic code of dots and dashes.

With the introduction of radiotelephony, which makes it possible for anyone to receive messages in spoken words, the broadcasting of information over the interior has increased enormously. A year ago the daily State forecasts were being broadcast from 12 radio stations, representing only 7 States, and principally by radiotelegraphy. On July 1, 1922, 98 stations in 35 States were daily broadcasting weather forecasts and warnings. Weekly reports on the effect of weather on crops and highways, and other information issued by the Weather Bureau for the public benefit, also are disseminated by many of them. Radiotelephony is now utilized almost exclusively in this work.

The Weather Bureau does not own or operate any wireless equipment. The radio distribution work is accomplished through plants operated by other Government agencies, by corporations, and by private individuals, and without expense to the Weather Bureau. An exclusive wave length of 485 meters has been assigned by the Bureau of Navigation, Department of Commerce, for the broadcasting of weather forecasts and market reports. No station can use this wave length unless specifically licensed to do so. In order that unnecessary crowding of the air and interference with schedules may be avoided, licenses are granted to only two stations in any city or community. This necessarily eliminates a considerable number of broadcasting stations that otherwise would gladly cooperate in the work. On July 1, 1922, there were about 400 licensed broadcasting stations in the United States. Therefore, about 25 per cent of all the licensed broadcasting stations in the country are already engaged in rendering valuable distribution service to the public. A considerable portion of the remainder would cooperate if sufficient funds were available to provide them with the forecasts and warnings.

The entire project has involved the Weather Bureau in very little cost. For the most part the broadcasting stations are located in or near cities where first order meteorological stations are maintained. The information to be broadcast is supplied to them by telephone without additional expense. Offers of cooperation by many broadcasting stations have been reluctantly declined because of the expense involved in the telegraphing or telephoning the forecasts and warnings to them. The service could be placed on a much higher basis of efficiency and materially extended if funds were available for the telegraphing of the forecasts, warnings, and information to radio stations not now included in the system and for additional employees who would be required in the work.

The great value of radiotelephony as a means for disseminating weather forecasts and warnings to the people already has been demonstrated. Its future usefulness can not be estimated. The Weather Bureau was organized by Congress for the benefit of "agriculture, commerce, and navigation." Heretofore a large portion of the farmers of the country were so located that they could not be supplied by means of newspapers, telegraph, etc., with the daily forecasts and warnings in time to be of service to them. The extension of telephone lines into rural communities overcame only a part of this difficulty. Radiotelegraphy was of slight help and necessitated learning the telegraphic code. The marvelous advance in radiotelephony has entirely changed this situation. It requires only a limited equipment to receive radiotelephone messages. Thousands of farmers installed such receiving apparatus during the past year and are now obtaining the weather forecasts and warnings, which are so important to their operations, as promptly and effectively as the business interests in urban communities. A great future increase is inevitable.

Another important accomplishment in radio work during the year was the inauguration of a program of broadcasting daily, Sundays and holidays included, of the regular twice-daily forecasts, cold-wave, frost, and other warnings and information issued for the States comprised in the Washington and Chicago forecast districts. On Wednesday during April to November, inclusive, a summary of weather conditions as they affected crops during the preceding week also is included. These disseminations are made from the naval radio stations at Arlington, Va., and Great Lakes, Ill., respectively. This service began June 20, 1922, for the Chicago district and on June 26, 1922, for the Washington district. Radiotelegraphy and high-wave

lengths are utilized for these disseminations, as telegraphy is more reliable than telephony for long-range transmissions. All the States included in the two districts are within the range of the naval radio stations at Arlington and Great Lakes. Radio receiving stations that are equipped for high wave-length receptions receive direct service thereby. Local radiophone broadcasting stations, most of which are in charge of operators having the required proficiency in radiotelegraph, also are enabled to secure the forecasts, warnings, etc., for localized radiophone broadcasting.

The primary broadcasting of the State forecasts and summaries from the district forecast centers at Washington and Chicago is an immediate adaptation by the Weather Bureau of plans approved by the interdepartmental radio committee, which contemplates the use of a few high-powered Government radio stations for broadcasting official information by radiotelegraphy for the entire country. Plans are now in formation for beginning the broadcasting about September 1, 1922, of the State forecasts, summaries, etc., for the States in the San Francisco forecast district. It is hoped that similar plans for the remaining districts—New Orleans and Denver—will be effected within a few months, thus bringing all the States into the system.

Material extensions were also made during the year in the radio bulletin service for the special benefit of marine and aviation interests. On March 15, 1922, broadcasting of a major bulletin from Goat Island (near San Francisco) was begun, and localized bulletins from Tatoosh Island, Wash.; North Head, Wash.; Eureka, Calif.; San Pedro, Calif.; and Dutch Harbor, Alaska. On April 15, 1922, service of the same character was inaugurated for the Great Lakes regions, the major bulletins being disseminated from Great Lakes, Ill.; and the local bulletins from Alpena, Mich.; Buffalo, N. Y.; Chicago, Ill.; Cleveland, Ohio; and Duluth, Minn., replacing a limited broadcasting service previously conducted at those points. The radio broadcasting work on the Great Lakes and the Pacific coast is on the same basis as on the Atlantic and Gulf coasts. The character of the major and the local bulletins was described in the report for 1921. In all of this work the Weather Bureau is indebted to the Director of the Office of Communications of the Navy Department and the officials in charge of the various naval radio stations for cordial and efficient cooperation.

Exchange of weather reports.—Meteorology is essentially an international science. Cyclones and anticyclones have no regard for boundary lines or 3-mile limits. Exchange of weather reports among all the nations in the Northern Hemisphere is necessary for the development of the science and for improvement in forecasting. Navigation of the air, which has advanced to the point where transoceanic and round-the-world flights have been demonstrated as practicable, has emphasized the need for the securing of daily reports of prevailing weather conditions from all parts of the world and the issuing of daily international weather charts. Nearly all countries maintain meteorological services and the observations are available. It is largely a question of providing means for prompt and effective transmission and the publishing of the information. This is a project in which cooperation between the various countries is necessary and naturally involves a proportionate payment of the costs. The depressed financial conditions existing throughout the world prevent any serious consideration of such a project at the present time. However, the United States Weather Bureau has been able to arrange for the collecting of a considerable number of foreign reports for its own needs and purposes and at negligible cost.

Prior to the war a few reports were received from Mexico, Europe, Asia, and from the Far East. These were entirely suspended during the war. Arrangements were made for their resumption during the year just ended, with a material increase in the number of reports. There was no interruption to the exchange of reports between the United States and Canada and in the obtaining of observations from Alaska, Cuba, the West Indies, and from Central American countries.

Including the reports obtained under the plans put into operation during the past year, observations are now received daily from 40 stations in Canada; 9 in Alaska; 22 in European

countries, embracing England, Spain, Switzerland, Germany, Austria, Czechoslovakia, Poland, Denmark, Norway, Sweden, Iceland, and the Azores; 36 in the West Indies, Cuba, and Central America; 17 in Mexico; and 12 in the Pacific and the Far East, including the Hawaiian Islands, Guam, Midway Island, the Philippines, Japan, and China. These reports are charted and are utilized in connection with the regular forecast and storm-warning work of the bureau.

Arrangements also were made during the year for supplying to the French meteorological service of a daily radiogram containing observations taken at about 40 stations in the United States and a similar message soon will be sent to the meteorological service of the Philippines and Japan. The reports sent to France are broadcast by radio from the Eiffel Tower for the benefit of the European meteorological services within its range. The United States Weather Bureau receives in exchange a daily message by radio, containing reports from European countries. These exchanges are made possible without cost by the cooperation of the Office of Communication of the Navy Department.

The Amundsen polar expedition started from Seattle on June 1, 1922. The exploring ship *Maud* is equipped with radio apparatus and has a scientific officer on board. It is the plan of this expedition to pass through the Bering Straits, reach the farthest point north that is possible, become frozen in the ice, drift therewith for an estimated period of about three years and come into the open sea to the northeastward of Greenland. The ship expects to maintain radio communications with the United States Signal Corps station at Nome, Alaska, for nearly two years. Arrangements were made with the expedition to take twice-daily weather observations and transmit them to the Weather Bureau. A number of observations already have been received. This arrangement will provide valuable observations from the most northern points at which observations have ever been taken and transmitted as a daily program. The ship is also equipped with pilot balloons and it is expected that these observations also will be radiographed daily.

Orchard-spraying service.—The special forecast service in connection with the orchard-spraying activities in the apple-growing sections in the northern part of New York was continued during the past season, and similar work to a limited extent was conducted in localities in Pennsylvania, West Virginia, and Virginia. The forecasts for the New York areas were distributed in previous seasons from the Weather Bureau office at Rochester, but during the past season this work was conducted from Ithaca, where closer cooperation with the State Extension Service and the county agents was obtainable. This arrangement proved more satisfactory and effective work was accomplished.

Damage from frost is not a serious menace to apple growing in northern New York. Serious loss from this cause occurs on an average less than once in 10 years. Scab, a fungous disease, is the worst enemy. It remains dormant so long as the weather is dry. The spores come into activity when moistened and, unless killed by spraying, trees may become infected within 24 hours. The problem is to apply the spray just before a rain because when the rains occur the fungi begin to grow and are killed by the poison in the spray. If the spray is applied and rains do not occur within about three days thereafter the effect of the poison is minimized or lost entirely. There are about 12,000 commercial apple growers in seven counties in New York who are equipped for spraying. At least three applications are necessary each season. It is estimated that the total cost of apple-tree spraying for one season in the seven counties is about $3,500,000. Therefore, accurate and timely forecasts of the occurrence of rains in the spraying season are of great importance to the growers in determining when the spray shall be applied, and the responsibility placed on the Weather Bureau in giving correct information is apparent. If the forecaster fails to predict a rain and spray is not applied the trees become irremediably affected; if rain is predicted and spray is applied but the rains fail to come the effect of the spray is lost entirely, or considerably reduced, and heavy loss results.

The following is quoted from a report made on this special forecast work during the past season by Professor Crosby, of the Department of Entomology, and Professor Horner, plant

pathologist of the New York State Extension, which was based on information submitted by field assistants and county agents:

The special forecasts for the spray service were sent to the following seven counties: Orleans, Monroe, Wayne, Genesee, Onondaga, Chautauqua, and Ulster. They were used constantly by the field assistants in timing their recommendations for spray. In the case of sprays involving fungous diseases these special forecasts are especially important, because it is well known that fungous diseases are vitally affected by the periods of wet weather. Four of the most important counties had a telephone relay system by means of which it was possible to warn the growers quickly when it was time to apply the spray. This system was used throughout the season whenever occasion demanded. At other times and in counties where the relay system was not used, circular letter and post cards were used to broadcast the information.

The number of fruit growers reached directly by this service was 2,500. It is a well-known fact, however, that nearly every grower who receives the service has at least one neighbor who gets the information from him. This would nearly double the number benefiting by this service.

We feel strongly that these special weather forecasts are of great importance in making the Weather Bureau of real service to our fruit growers and general farmers and that definite provision for the service is essential for getting the full value out of the Weather Bureau.

The New York State Horticultural Society at its summer meeting held at Leroy, N. Y., passed resolutions that "the Government weather forecasts given out in connection with the spray service in New York State has been of great assistance to the fruit growers; we express our appreciation of such service and request its continuance."

The spray forecast work has been conducted as a demonstration of the practicability and value of special forecasts for the benefit of orchardists. The project, although conducted in a limited way, has proved highly successful. It will not be possible, however, to place this project on an adequate and permanent basis and to extend it to other sections, where there is fully as much need therefor, unless additional funds are provided for the work.

RIVER AND FLOOD SERVICE.

The year of 1922 was unprecedented as to the number and wide distribution of floods, especially with reference to the Illinois Valley, the lower Mississippi, and Texas rivers, including the Rio Grande. Stages beyond all previous records were attained in many cases and during the month of April almost every stream east of the Rocky Mountains was in flood, entailing heavy demands upon the Weather Bureau for flood service and information, with corresponding increased expenses for operations.

The lower Mississippi River floods.—The river passed the flood stage of 45 feet at Cairo, Ill., on March 16, and did not fall below the flood stage of 35 feet at Baton Rouge, La., until June 12, a total period of 89 days. During the flood the highest stages of record were reached from the mouth of the Arkansas River to the Passes, and had the levees remained intact probably another foot would have been added to the flood crests below Vicksburg, Miss.

There were four important crevasses in the levees, all within the State of Louisiana, and of these the greatest occurred on the right bank near Ferriday, La. The others were at Hamburg, Poydras, and Myrtle Grove, La.

About 13,200 square miles of lands were overflowed, about 4,400 square miles less than in 1912, the deficiency occurring in the Yazoo district.

The total reported losses were about $17,000,000, of which about one-half were in prospective crops. Many losses, especially those to railroads, were unreported.

There was no loss of human life, as the warnings of the flood were several weeks in advance of their occurrence.

Summary of flood losses.—The Texas floods of September came with a suddenness that in many localities defied any precautionary measures whatever and caused the loss of 215 lives. Incompletely reported losses of property and crops amount to more than $19,000,000. This amount actually exceeds the total losses caused by the great floods of the following spring in the Mississippi River and its tributaries. The total reported for these latter floods was $17,087,790, and approximately 15,000 square miles of land were overflowed, over 13,000

square miles of which were below the mouth of the Ohio River. The reported grand total of flood losses for the year was about $52,000,000.

In April and May Texas suffered again to the extent of at least $3,000,000, with the highest stages of record in some of the rivers, and still a third time in June, when the great Rio Grande flood did damage to the extent of about $3,000,000, making a total for the year for the State of Texas of about $25,000,000, the major portion of which was in crops, either in hand or prospective.

In April, floods in the Connecticut Valley caused nearly $1,000,000 damage, and the May floods in the Colorado River also proved destructive by reason of the breaking of a levee on the right bank of the river at Hauser Bend, Calif., in the Palo Verde Valley. The crevasse attained a width of 1,300 feet, and the waters flooded 30,000 acres of land, 10,000 of which were under cultivation. The loss and damage amounted to about $1,000,000.

Destructive local floods.—An unusual number of destructive local floods occurred in creeks and other small streams, such as those in the State of Washington in December, 1921; at Burlington, Kans., in March, 1922; and in eastern New York, northeastern Pennsylvania, and Wisconsin in June; with estimated total damage of $5,750,000, excluding that in Wisconsin, of which no report of losses was received.

Flood warnings.—The flood warnings issued by the Weather Bureau were instrumental in saving property to the reported value of $8,166,500. Growing crops, of course, can not be saved, nor as a rule can houses, roads, bridges, etc., so that the figures given above represent mainly live stock and other portable property, and the statistics received indicate that the losses of property of this kind were very small.

Summary of operations.—Natural expansion of river and flood work has been limited to the addition of a few scattered stations and the inauguration at very small cost of flood service on the Platte River. This service is maintained through cooperation with the department of public works of the State of Nebraska, which supplied the gauges and at two stations the gauge readers. Limited extensions were also made in southeastern Missouri.

A new river district was established at San Antonio, Tex., being simply a portion of the old river district of Houston, Tex. The change was made in the interest of efficiency of operation and without additional charge upon the service as a whole. Another change was that of consolidation of the river districts of Iola, Kans., and Fort Smith, Ark., with headquarters at the latter station.

The compilation of the histories of all the river stations, about 500 in number, has been brought to virtual completion and now serves to bring within a very small compass a large mass of valuable material that was unavailable and liable to loss.

Extensions proposed.—Increased activities in hydrological engineering and the persistent extension of agricultural and commercial interests demand that the river and flood service keep pace with them. More river gauging stations and much more intensive measurement of precipitation are needed. These things can be accomplished with a very reasonable increase in appropriations and it is hoped that funds will soon be available. As it is, the service is virtually at a standstill so far as field extensions are concerned. One vital need is that of an engineer who can serve as a field man, inspecting stations, making repairs to equipment, and making surveys for the establishment of permanent benchmarks and other measurements of precision. These surveys are of highest importance in their relation to projects involving water supply for irrigation and power purposes.

Snow surveys.—The snow surveys and measurements continued as before. This service is maintained for the purpose of affording each spring to irrigation and hydroelectrical engineers a reasonably accurate forecast of the supply of water that will be available during the coming summer and autumn.

The great importance of such work is obvious, but it requires more intensive local field work in making surveys of snow depths and snow density at the end of each winter, to the end that more accurate forecasts of future water supply may be made. The development of efforts of this character must await further appropriations.

Wagon Wheel Gap, Colo.—The experiment station maintained at Wagon Wheel Gap, Colo., has been continued in accordance with the established program. The whole project will be completed within two or three years and the final results communicated as soon as possible thereafter.

AGRICULTURAL METEOROLOGY.

The usual weekly and daily weather and crop services were continued during the year. The failure of Congress to enact legislation for the continuation of certain publications made it necessary to suspend the issue of the National Weather and Crop Bulletin at the close of November. Beginning with the 1st of January, however, the regular weekly summaries of weather conditions and their effect on vegetation and farm work were resumed, publication being effected through the medium of the new bulletin issued by the Department of Agriculture, known as Weather, Crops, and Markets. The weekly corn and wheat region bulletin was continued at Chicago and a similar bulletin published at New Orleans covering the Cotton Belt, while weekly State summaries have been issued at the various section centers.

Special services.—Daily bulletins were published at various stations throughout the principal agricultural sections of the country, giving in tabular form weather conditions prevailing during the 24 hours preceding. These services were maintained in the interests of the cereal, cotton, sugar, and rice production of the country. In addition weekly cattle region bulletins have been issued showing weather conditions over the range areas of Texas, New Mexico, Arizona, Utah, Wyoming, and Nevada. A demand for an extension of this service to other important western grazing areas continued, while the corn and wheat region service should be extended to some important grain States where the lack of funds has prevented extension.

Fruit frost service.—A special appropriation of $9,000 was provided by Congress for the extension of the fruit frost service of the bureau during the fiscal year, and as a result this service was materially improved. Three special representatives were assigned to this work in the citrus and deciduous fruit districts of the Pacific coast. Active operations were maintained in a number of places in California, at Medford, Oreg., and at Spokane and Yakima, Wash., under the supervision of special employees.

This service was of special value to citrus fruit growers in southern California, where the severest freeze in many years was experienced in January, resulting in enormous loss. Forecasts of minimum temperatures during the period of critical weather conditions were remarkably accurate, and the cooperation of the bureau with the fruit growers was instrumental in saving much fruit that would otherwise have been lost. The appreciation of this service by the citrus interests is indicated by the expressions in following communications received by the bureau:

[From the Pomona Fruit Growers' Exchange.]

Confirming our conversation regarding the value of your service to the citrus industry of this district, we find in the district covered by the Pomona station that there are approximately 7,000 acres equipped for firing and making use of your forecast. The value of the crop in this acreage is fully $2,800,000. There are within this territory about 9,000 acres not prepared to protect against frost. The crop from the unprotected acreage is practically a total loss, besides injury to the trees of a large proportion of this unprotected acreage.

The growers having equipment and using your service burned about 1,380,000 gallons of oil, and we consider the information you have furnished has prevented unnecessary burning of a much larger quantity.

We feel that the investigation of frost prevention being carried on by the Weather Bureau is of great importance, and we hope there will be nothing to interfere with the continuation of the work.

[From the Fontana Farms Co.]

In reply to your recent inquiry concerning the value of the special service of the Weather Bureau in this section, I would say that growers hereabouts regard the service as invaluable and indispensable.

The action of this company in voting to subscribe a sum of money at the beginning of the frost season to assist in this work may be taken as a reliable indication that such a service as this is needed.

During the recent freeze that caused so much damage to the citrus industry, authentic temperature records taken in this locality were of very great value as an indication of the degree of cold fruit in this locality was subjected to.

We trust that this service may be continued during future years and assure you of our support in your work.

After the close of the frost season in southern California, special bureau representatives rendered successful services in the central and northern Pacific States, particularly in the vicinity of Fresno, in the Santa Clara Valley, Calif., in the Medford district of Oregon, and in the fruit sections of eastern Washington.

Other fruit frost activities during the year were as follows:

Ilwaco, Wash.—The cranberry industry has assumed large proportions near the mouth of the Columbia River. Little interest has heretofore been taken by the growers in the available service of the Weather Bureau, but in the spring of 1922, when heavy frost damage occurred, urgent request for a frost service was made. Action was taken to grant this request in so far as the funds of the bureau would permit.

Rosewell, N. Mex.—No effort had been made to protect fruit orchards in this district until the present year when many orchards were heated on a number of occasions on receipt of Weather Bureau advices of probable damaging temperatures. Much interest is now shown in the work of frost protection, and practically all the commercial orchards are equipped with frost-fighting devices.

Yuma, Ariz.—The temperature survey in the Yuma, Ariz., section that was started a few years ago was enlarged by the establishment of a number of additional stations. This survey is being made primarily in the interests of the citrus-fruit industry, which is assuming considerable proportions in that section.

Colorado.—Special services were continued in the Gunnison Valley and in the vicinity of Grand Junction. About 500 acres of orchards are protected in the latter section, and the possibilities of thorough protection by adequate heating were demonstrated at Fruitvale, where an orchard was brought through the cold spell uninjured, notwithstanding the minimum temperature fell to 17° F.

New Jersey.—A representative of the Weather Bureau was assigned to New Lisbon during the frost-danger period of the spring of 1922, where a special frost service is maintained in the interest of the cranberry industry in that section.

A fruit frost service was established during the year at Wichita, Kans. Three special stations were established and frost warnings were distributed to fruit growers over an extended area. In addition, preliminary services were established in Illinois and parts of Florida.

Cooperation.—Quite extensive cooperation has been had during the year with the Bureau of Markets and Crop Estimates in the Great Plains project, an investigation which that bureau is carrying forward in the interest of agriculture in the Great Plains States. Other cooperation with the various bureaus of the department was continued.

Investigations.—Mathematical studies of the relation between weather and crops was continued as the routine duties of the division permitted. Some very close relations were established between the weather and yields of corn and of oats in some important producing areas, and the importance of the establishment of meteorological stations at agricultural experiment stations becomes more apparent as investigations of this character are continued. Papers published during the year are:

HAMRICK, A. M. "Fruit Frost Work in the Grand Valley of Colorado" (Monthly Weather Review, October, 1921).
KINCER, J. B. "Relation of Climate to the Geographic Distribution of Crops in the United States" (Ecology, April, 1922).
YOUNG, F. D., and ELLISON, E. S. "Notes on 1922 Low Temperatures in California" (California Citrograph, April, 1922).

STATIONS AND ACCOUNTS DIVISION.

WEATHER BUREAU QUARTERS AT FIELD STATIONS (OUTSIDE OF WASHINGTON, D. C.)

Since the beginning of the United States Meteorological Service in 1870 it has been a uniform policy to secure quarters for its field stations in Federal buildings, whenever such buildings are suitable for the purpose, and it is practicable to do so. Occasionally where Federal buildings were not available Congress has authorized the erection of special observatory buildings and, in several instances, free accommodations have been secured in State college or university buildings.

Thus far, in a total of 220 stations, 129 are so situated that no rentals are paid for local offices and accommodations, as follows:

Free quarters and accommodations:		
Observatory buildings (owned and controlled by the Weather Bureau)	[1] 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 grounds, aerological stations	6	
Total number of rented buildings partly or wholly occupied		96
Total		[2] 225

Under the program of economy in expenditure of appropriations, it has not been possible to keep the 48 buildings owned and controlled by the bureau in thoroughly good condition, and some of these are urgently in need of repairs and repainting for proper preservation. The more urgent cases, however, are now receiving attention.

At San Juan, P. R., in February, 1922, alterations to the building served to add two rooms to provide needed space for assistant observers for the West Indies Section Center work.

The Weather Bureau building at Narragansett Pier, R. I., still continues vacant and in charge of a caretaker. To avoid continual expense for upkeep, this surplus property should be disposed of by sale or otherwise at the earliest practicable date.

After an exhaustive inquiry by a special commission, no practical use has been found by the branches of the Department of Agriculture or other Government departments for the reservation and buildings on the Blue Ridge Mountains, in Loudoun and Clarke Counties, Va., known as Mount Weather. In harmony with suggestion of members of the Committee on Agriculture of the House of Representatives, this bureau has informally but vigorously prosecuted inquiries in regard to a possible purchaser and offer for this property. In this connection we have communicated with and interviewed the owners of properties near the Mount Weather reservation, others who are familiar with the property and its possible utilization and sale; also realtors having a large clientele who are familiar with the property. In addition, supplementing such inquiries at Washington, a representative of the bureau has visited the reservation and the villages and towns in its vicinity for the purpose of bringing the possible sale of the property to the attention of interested parties who might be prevailed upon to make a preliminary proposal or offer for the purchase of this property. Although prosecuting these inquiries diligently throughout the year, no definite proposals have yet been received, and efforts are still being made to secure some preliminary proposal in more or less definite form in regard to the property.

The buildings and grounds have been inspected by officers of the bureau, and repairs necessary for their maintenance in good condition are being made or are planned for in the near future. The property and buildings are in good condition, and keepers have been placed in charge of the reservation and buildings for their protection and care. All such expenses of upkeep and necessary repairs amounting to about $2,000 annually constitute an unprofitable charge upon appropriations, and no further delay should occur in the enactment of necessary legislation to authorize the sale and disposal of this property substantially as recommended by the commission appointed to report on the disposition thereof.

Weather Bureau quarters in Federal buildings.—Upon completion of new Federal buildings at Santa Fe, N. Mex., and Honolulu, Hawaii, Weather Bureau offices at those places were removed from rented quarters, April 1 and May 1, 1922, respectively, thus effecting a saving of $1,920 per annum in rentals heretofore paid, part of rented quarters at Honolulu being retained temporarily for special comparative observations.

[1] Not including those at Mount Weather, Va., and Narragansett Pier, R. I.

[2] Five stations have quarters in two buildings each, viz: Cape Henry, Va., 2 Weather Bureau; Cincinnati, Ohio, and Oklahoma City, Okla., Weather Bureau and Federal; Columbus, Ohio, 2 rented; and Honolulu, Hawaii, Federal and rented buildings (temporarily).

By reason of expiration of existing leases, June 30, 1922, for rented quarters at Weather Bureau field stations, consideration was given changes affecting in all 23 stations at which $24,179 was paid for rentals during last fiscal year. Of these, Santa Fe, N. Mex., and Honolulu, Hawaii, were moved from rented to free quarters as stated above. At 12 stations no increases were asked in rentals now and heretofore paid, while at the 9 remaining stations the increase demanded was $4,880 on a total rental involved of $9,280, or an average of about 53 per cent. Such exorbitant increase could not be paid with limited funds available, and the situation was met by curtailment of needed space at Atlanta, Ga., and Asheville, N. C., and other compromises. The total increased rental required for next fiscal year for the entire field station service of the Bureau was finally reduced to an increase of $1,077.

New stations.—To meet increasing needs for Weather Bureau information, especially during the hurricane season, a first-order station was established June 1, 1922, at Apalachicola, Fla. Quarters were obtained in the Grady Building, No. 200 Water Street.

In July, 1921, in compliance with instructions from Bureau of the Budget, there was set aside the sum of $26,000 from the appropriations for the Weather Bureau, 1922, as a "reserve," to be held, if possible, as a minimum unexpended amount to the end of the fiscal year. This was done, notwithstanding urgent demands for the extension of Weather Bureau activities in various directions and for the maintenance and upkeep of existing stations, with result that a further saving of $6,701.98 was effected, making a total credit for the year about $32,700.

TELEGRAPH DIVISION.

Telegraphic conditions, both national and local, were more satisfactory during the past year than for several years previous, except for nearly two months, when there was a shortage of force at the central office, due to resignations.

Maintenance by the Western Union Telegraph Co. of the 23 telegraphic circuits has been conducted in a generally excellent manner and comparatively few complaints of defective or delayed service in transmission of special messages have been received. Reception of cable and wireless reports during the six-months hurricane season beginning June 1, 1921, was not as prompt as was desired, although efforts in various directions were made to effect improvement. More reports from ships were handled than in any preceding year, the increase being largely due to the cooperation extended by the Shipping Board in transmitting reports from many ships twice daily, without cost for wireless tolls, and the gradual extension of general service.

Examination and audit of telegraph, cable, and wireless accounts, all of which is performed by the division operators, was somewhat delayed during the first part of the fiscal year because of the greatly increased work incident to the six-months hurricane season and of the operator shortage above mentioned. This work was brought up to date, however, during the spring. But little opportunity has been afforded, unfortunately, for such desirable lines of work as revision and improvement of divisions records, collecting and compiling data for ready reference—largely used by other divisions—investigation of the possibility of more efficient methods of conducting division work, etc.

Contracts with various wireless telegrpah companies, with numerous telephone companies, and with several telegraph companies were renewed for the fiscal year 1923 on terms prevailing in former years. Those with the Western Union Telegraph Co. and the New England Telephone & Telegraph Co. are unexecuted at this writing.

A saving of funds to the extent of about $1,000 per annum was effected by rerouting certain forecast and crop messages destined to far-western points.

Assignment of an additional operator last fall has enabled the routine telegraph work to proceed in a much more satisfactory manner than previously, permitting, as it did, placing another operator on the early morning and night forces during the hurricane season and thus facilitating reception of the large volume of cable and wireless business transmitted during this period.

Weather Bureau telegraph and telephone lines.—These lines, nine in number, with combined length of approximately 289 miles, including approximately 66 miles of cable and 15 miles of leased wire, worked without serious interruptions and in a generally excellent manner, except the Block Island-Matunuck Beach submarine cable. Over these lines valuable meteorological observations, forecasts and warnings, vessel and wreck reports, and general Government business are transmitted, and five of them carry a volume of commercial business yielding revenue which accrues to the Government.

About 25,000 commercial telegrams were transmitted during the year; about 15,000 Government messages and telephone calls and about 3,000 long-distance calls were handled.

While all these lines are maintained primarily to carry important Weather Bureau reports and warnings where no commercial lines are available for the service, nevertheless the Government derives a significant amount of income from commercial telegrams and telephone calls handled for the public at very small charge.

The following table indicates the receipts for the year:

	Block Island.	Cape Henry.	Beaver Island.	N. & S. Manitous.	Port Angeles.
1921.					
July	$220.24	$157.77	$47.75	$20.06	$195.98
August	[1] 200.00	161.28	62.08	20.96	237.03
September	[1] 31.26	145.06	45.18	11.88	185.03
October	16.44	146.95	32.15	7.60	132.91
November	[2] .70	171.71	76.00	7.73	124.14
December	([2])	230.23	52.40	4.00	132.87
1922.					
January	([2])	211.69	35.92	1.75	168.74
February	([2])	95.06	33.93	2.28	144.97
March	([2])	115.22	36.59	4.75	159.86
April	([2])	112.89	63.95	7.72	175.63
May	([2])	85.75	70.96	10.28	168.34
June	49.11	97.03	64.64	15.71	[1] 202.32
Total	517.75	1,730.64	621.55	114.72	2,027.82

Grand total, $5,012.48. [1] Estimated. [2] Telegraph communication interrupted.

In addition to the above, $600 per annum is received from the New England Telephone & Telegraph Co., Boston, Mass., for rental of two conductors in the Block Island cable.

The cost of maintenance and repair to these lines was $2,500.

Block Island-Matunuck Beach (R. I.) section.—A three-conductor telegraph cable connects the island with the mainland. Two conductors are leased to the New England Telephone & Telegraph Co. for telephone purposes, the third being reserved for telegraph use. This conductor became defective in August, remaining so until June, the Weather Bureau being without sufficient funds to make adequate repairs. During most of this time telegrams were telephoned to and from a telegraph office on the mainland. By cooperation with the Western Union Telegraph Co. repairs were accomplished on June 7, when telegraphing was resumed. For several months in the summer a large number of telegrams are offered for transmission over this cable, the only means of wire communication with the island, a popular summer resort. The interruption above noted seriously interfered with satisfactory conduct of this business, and similar interruptions are liable to occur at any time owing to the age of the cable, which was laid in 1903. It has been repaired numerous times and is subject to gradual deterioration because of electrolysis. The time has come for installation of a commercial cable with adequate facilities to care for the large volume of business now offered. These conditions are recognized by the commercial companies interested, but no action to provide a new cable has been reported to the Weather Bureau.

Norfolk-Hatteras (Va.-N. C.) section.—Extensive reconstruction of certain portions of this telegraph line was undertaken with the cooperation of the Coast Guard and the Chesapeake & Potomac Telephone Co., the operating conditions being materially improved thereby. Cost of these repairs approximated $1,000.

The great value of this line to the Government and to private interests is indicated by the following data:

Total number of messages handled by Weather Bureau office, exclusive of all Government and radio business handled by the Navy Department:

	Sent.	Received.
Commercial	5,376	5,924
Official messages	8,264	4,702
Total	13,640	10,626

Telegraph receipts at Weather Bureau offices:

	This line.	Other lines.
Cape Henry, Va	$1,398.28	$370.86
Hatteras, N. C	96.99	189.39
Manteo, N. C	235.37	407.07
Total	1,730.64	967.32

At the Cape Henry office 16,990 vessels and 17 wrecks were reported by telephone and telegraph.

It is proposed to extend reconstruction work to other sections of the line, where badly needed, during this fiscal year.

Alpena-Thunder Bay-Middle Island (Mich.) section (telephone.)—Some damage was done to these two lines, respectively 15 and 12½ miles in length, by ice storms during the winter and spring. An expenditure of about $1,000 for shortening old poles (set in 1893) is necessary in the near future. Extensive use is made of both lines by the Coast Guard Service, Lighthouse Service, and the Naval Communication Service, and they are of inestimable benefit to marine interests as well as to the Weather Bureau.

Whitefish Point-Vermillion Point (Mich.) section (telephone)—North and South Manitou Islands-Sleeping Bear Point (Mich.) section (telephone)—Beaver Island-Charlevoix (Mich.) section (telephone).—These three worked satisfactorily throughout the year.

Point Reyes-Fairfax (Calif.) section (telephone).—Satisfactory transmission conditions attended the operation of this line of 37 miles excepting for a total period of 400 hours when it was interrupted by storms. The line is maintained by close cooperation with the Coast Guard, which service makes large use of the facilities afforded thereby.

Galvanized iron wire is strung for about 13 miles on poles of the Western Union Telegraph Co. It is contemplated replacing this iron wire with copper wire and to change to poles of the Pacific Telephone & Telegraph Co.

North Head-Portland (Wash.-Oregon) section (telegraph).—Interruptions of service, totaling about 344 hours, were frequent but of short duration, caused mostly by improper management of repeaters at Fort Stevens.

Nearly a half mile of the line between North Head and Fort Canby was destroyed by a severe storm December 1. Prompt repairs were accomplished with but slight expense. Telegraphic business consists principally of meteorological and vessel reports, no commercial telegrams being handled.

Tatoosh-Port Angeles (Wash.) section (telegraph).—The course of this line of approximately 90 miles along the southern shore of the strait of Juan de Fuca is mostly through heavy timber and for a large part along a country road. Extensive logging operations in the vicinity of the line have for a number of years past interfered with continuous communication to a considerable extent, necessitating frequent repairs. Heavy storms during the winter are also a fruitful source of trouble. Less than the usual amount of damage resulted during the past year, the cost of upkeep having been approximately $1,000. These interruptions totaled 29 days and 2 hours,

10 days of which was due to prostration of the span wire between Cape Flattery and Tatoosh Island.

Extensive repairs, including changes in the course of the line and some reconstruction work, are contemplated during the present fiscal year, which will require an expenditure of about $1,200.

The line continues to be of benefit to logging, shipping, fishing, and other private interests, in addition to its primary use for meteorological purposes. About 11,000 commercial messages were handled during the year, with receipts of approximately $2,100, Government tolls; also 2,400 Government messages and 1,500 long-distance telephone calls.

AEROLOGICAL INVESTIGATIONS.

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 the autumn of 1921, at the request of the director of the Brazilian meteorological service and in cooperation with a representative of that service, temporarily stationed in Washington, plans for the organization of an aerological service in Brazil, patterned after that in the United States, were outlined and satisfactorily worked out. All necessary equipment was purchased, methods used in this country were studied and adopted, and two trained observers of the Weather Bureau were released, in order that they might be employed by the Brazilian Government to get the service properly inaugurated in that country.

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. Part 1, "Results of Observations by Means of Kites," was completed and published during the past year. It contains tables and figures showing monthly, seasonal, and annual values of pressure, temperature, humidity, density, and wind at various heights up to 5 kilometers. It also includes a detailed study of the behavior of free-air winds, classified by months and seasons, by geographic location and according to different wind directions at the surface. Tables and figures are given, showing the frequency and amount of clockwise and counterclockwise turning of winds, the frequency of winds from different directions, the average and extreme velocities encountered, and other data of special interest and value to aviators. This "survey" is confined to those portions of the country east of the Rocky Mountains, since free-air observations farther west are too few for the purpose. Additional stations in the West and a few more in the East than we now have are urgently needed in order to give complete information for all parts of the country.

At the request of the National Advisory Committee for Aeronautics the preparation of a report on "Standard atmosphere" was undertaken and completed. It has been published by that committee as Report No. 147 and will later be included in the annual report. In it are discussed the need of a standard set of values of pressure, temperature, and density at various altitudes, and the desirability of adopting such values as are most in accord with actual average conditions in order that corrections in individual cases may be as small as possible. To meet this need, so far as the United States is concerned, all free-air observations obtained by means of kites and sounding balloons at several stations in this country near latitude 40° north have been used, and average values of pressure, temperature, and density, based upon these observations, have been determined for summer, winter, and the year, and for all altitudes up to 20,000 meters (65,000 feet). These values have been adopted by the National Advisory Committee for Aeronautics for use as "standard" in this country.

CLIMATOLOGICAL WORK.

In the main the regular work of the division was carried forward as usual and all routine matters were well in hand at the close of the year.

The manuscript tables, charts, and text for the several publications of the bureau, weekly, monthly, and annual, were prepared and placed in the hands of the proper officials on the several dates specified. Likewise the thousands of meteorological reports from the regular and cooperative observers have received increased scrutiny to assure the accuracy required in the material placed before the public through the various reports issued by the bureau.

One of the main lines of work in the division, the furnishing of weather information upon written or other requests from all classes of persons and interests requiring such information, has continued with the usual activity, and this, too, has been met in a satisfactory manner, as indicated by the numerous acknowledgments received, which expressed entire satisfaction with the promptness of the information furnished.

Cooperative work.—The extensive lines of cooperation by which the Weather Bureau secures valuable observations of weather conditions free of charge, save for the necessary observing outfits, have continued as in the past. Hearty interest in this cooperation is manifested in the thousands of reports carefully prepared day after day, month after month, and for indefinite years, and forwarded promptly to this office and to the State section centers.

The number of these cooperative workers has not materially increased over those of previous years. In fact, effort to reduce the number of those reporting temperature conditions

has resulted in keeping that class of stations down to a number thought sufficient for all needs, at the same time arranging for a few new stations at points where temperature observations are considered of value.

On the other hand, effort is being made to increase the number of rainfall measuring stations in sections where local topography causes marked variations in the precipitation at nearby points. It is thought no difficulty will be experienced in securing cooperation along that line at various additional points, and recommendation has been made that appropriation for the purchase of an increased number of gauges be provided for.

Inspection of cooperative stations.—The withholding of travel expenditures for economical reasons and because officials could not absent themselves from their stations due to a general shortage of force has prevented the needed inspection of substations to a considerable extent. As a result some deterioration in the character of reports rendered has undoubtedly occurred, due to agencies not readily apparent to the cooperative observers. The most important of these is the tendency of maximum thermometers to become "retreaters," a condition of the thermometers not readily apparent to the observer, but easily detected by the inspector. The increasing number of instruments developing this defect has been commented on by several inspectors. The ultimate cause of this is a falling off in the high quality of maximum thermometers as now produced by manufacturers.

Another serious condition to be guarded against is the constant tendency to an improper exposure of the rain gauge. Faults of this kind are not readily noticed by the observer and are most surely remedied by an inspection.

No expenditure of Government funds will render more valuable returns than those providing for the reasonably frequent inspection of cooperative stations, which furnish such a great volume of most valuable data at no cost except those of forms, instruments, and inspections.

Climatological publications.—The material for the annual report of the chief of bureau and for the Monthly Weather Review has remained practically as during previous years.

The Snow and Ice Bulletin, due to congressional action, was not issued during the first few weeks of the season, but later on it was incorporated in the new department publication, Weather, Crops, and Markets. This soon proved unsatisfactory on account of late issue, and the Snow and Ice Bulletin was therefore issued as an individual publication in nearly the form adopted prior to 1919.

The 45 sections of the Climatological Service are issuing their monthly and annual summaries substantially as last year, save that a few sections have requested permission to increase slightly the number of pages per issue which, for reasons of economy, had been reduced to the lowest possible extent.

The somewhat smaller size of these publications has enabled their printing and distribution at a distinctly earlier date than had been possible for several years past.

The publication of the Alaska Section Summary, which had fallen greatly in arrears, due to certain printing difficulties, was finally brought up as near to date as can be accomplished, considering the conditions attending its preparation.

The Porto Rico section was enlarged to include the new West Indies Climatological Service, with headquarters at San Juan, and considerable delay in printing the monthly issues resulted from the greatly increased number of stations reporting, under the new plan of cooperation inaugurated with the various foreign governments in that region.

To meet the needs of engineers and others in California, who are interested in the seasonal precipitation of that State as affecting stream flow and water supply, the section director was authorized to issue as a supplement to the June, 1922, monthly section report, and yearly thereafter, a statement of the monthly precipitation at all stations in that State for the rain year, July, 1921, to June, 1922, inclusive, together with the total for the season. This permits the bringing together in consecutive orders the precipitation for the rainy season and enables a more ready means of studying the water problems of that State.

The snowfall bulletins for the 11 mountain States of the West were issued as usual, and somewhat more data were discussed than in previous years, due to increased facilities for obtaining reports.

Collection and care of meteorological reports.—All reports containing meteorological data usually forwarded to this division were properly checked, filed, and later prepared for permanent binding.

The reports from the 42 climatological sections of continental United States, about 320 copies for each section, were assembled monthly, temporarily bound at the Government Printing Office, and promptly distributed to foreign weather institutions, libraries, or other public repositories, and to subscribers and others making use of the data they contain.

At the close of the calendar year the permanent supply of these reports for file at stations, consisting of about 140 sets, 5 volumes each, a total of 700 volumes, was assembled, permanently bound, and distributed to the more important stations. Altogether nearly 1,800 separate volumes of reports of all kinds, not including those temporarily bound and distributed each month, were assembled in the division during the year, alphabetically and chronologically arranged, permanently bound, and placed in the proper files.

Additional work accomplished.—During the year just closed opportunity was afforded to secure the reprinting of a number of the separate sections of Bulletin W, Summary of the Climatological Data for the United States by sections, many of the sections being entirely exhausted and the editions of others too old to enable their efficient use in answering calls for weather data.

By concerted action between station officials and this division, 26 of the 106 sections were brought down to the end of 1920, with new tables added, and reprinted. Material for 24 additional sections was forwarded to the Government Printing Office and these are in process of completion, and 17 others are now ready, awaiting allotment of necessary funds, while the remaining numbers are in various stages of progress at the respective centers, but will all be ready for printing within a few months.

The preparation of the material for these publications was mainly accomplished at the respective State centers, but the arrangement of the data and checking the various tables and charts devolved upon the clerical force of the division, where, in order to facilitate the work, much of the proofing, revising, and other details were attended to.

New work.—The preparation of new normals of the daily maximum, daily minimum, and daily mean temperatures, the details of which were outlined during the preceding year, was carried forward as rapidly as the press of other work permitted. At the end of the year nearly all the stations having 40 or more years of record, some 75 or more, had been practically completed and most of them forwarded to stations for current use.

Considerable progress was made on a proposed new system for maintaining the summarized weather data accumulated at the various State section centers, but on account of prospective world-wide changes in the calendar, now being discussed, it was deemed best to delay any extensive changes at the present time.

The preparation of new normals of daily maximum, daily minimum, and daily means of temperature for the short-record stations of the bureau will be the principal extra work in the division during the present fiscal year.

Loyal support has been given by each member of the division's clerical force.

PRINTING.

The mailing lists of the bureau have all been revised and brought up to date, resulting in the discontinuance of a number of subscriptions. The demand for Weather Bureau publications from the general public, especially libraries, schools, and colleges, continues to be large. All applications are receiving prompt, careful, and favorable consideration where possible. In case the publications can not be supplied the writer is so advised, and if possible the source from which the publication may be secured.

Under a provision of the sundry civil act of March 4, 1921, Government departments were required to suspend the publication of all periodicals not otherwise specifically authorized by law. The National Weather and Crop Bulletin and the Monthly Weather Review were therefore suspended with the issue of December, 1921. Later the Weather and Crop Bulletin was combined with the Market Reporter and the Monthly Crop Reporter on January 7, 1922, and is now issued weekly throughout the year by the Department of Agriculture under the title, "Weather, Crops, and Markets." The resumption of the issue of the Monthly Weather Review was also authorized.

Under the deficiency bill passed by Congress for printing and binding of the Department of Agriculture, the Weather Bureau was enabled to effect the printing of a considerable amount of back climatological statistics, river stages on the principal rivers of the United States for 1920 and 1921, and the binding of official records. A large amount of this important data had accumulated during the war and since, and the amount of printing and binding accomplished under this appropriation has materially facilitated the work of the bureau.

In accordance with existing regulations the utmost economy was practiced in the issuance of publications and the purchase of paper, ink, and other printing materials. No new or additional machinery or equipment was installed during the year.

THE MONTHLY WEATHER REVIEW.

The Monthly Weather Review presents under a single cover fairly complete statistics and a discussion of the weather in all parts of the United States and to a lesser extent of the adjacent oceans. This purely statistical record alone is highly prized and extensively used by various marine, commercial, and agricultural interests. The Review also serves as an important aid in the teaching of meteorology in primary and secondary schools; also as a medium of exchange for workers in the field of theoretical as well as applied meteorology. It is now in the fiftieth year of publication, the first issue having appeared in the early part of 1873.

The early numbers were devoted to a résumé of the storms of the month, accompanied by charts showing the path followed by each, with short paragraphs upon the distribution of temperature and precipitation. All of these original features have been carefully preserved and greatly amplified with the passage of years, and many new topics have been added.

The forty-ninth volume contained 745 pages of text and tables and about 120 charts. The fiftieth volume will contain a somewhat smaller number of pages, about the same number of full-size charts, but with the addition of three small inset charts which add considerably to the information graphically presented.

Three contributions to meteorology have been printed during the year as supplements to the Monthly Weather Review, and the manuscript of a fourth is awaiting final action previous to being sent to the Public Printer.

INVESTIGATIONS IN SEISMOLOGY.

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 bureau itself at Washington, D. C., Northfield, Vt., and Chicago, Ill., and similar data secured 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 bureau recorded 83 separate earthquakes strong enough to be felt by the unaided senses in the continental United States during the calendar year 1921. The great majority of these resulted in little or no damage, but the widespread shocks which took place in Utah in September, the latter part of October, and first of November caused moderate damage. No important earthquakes occurred in our outlying possessions.

VOLCANOLOGY.

The funds available for the conduct of observations of the glowing lava beds of the Kilauea Volcano have remained the same as heretofore and have barely sufficed to maintain the program of work as in the past. Some additional investigations by borings supported by funds from the Hawaiian Volcano Association were made during the year.

LIBRARY.

During the fiscal year 1,130 books and pamphlets were added to the library, the total strength of which is now well over 41,000 volumes. Most of the gaps in periodical publications occasioned by the war have now been filled, the chief exceptions being Russian publications. A nearly exhaustive bibliography of the climatology of South America was published in October. The various catalogues have been kept up to date. One of these, not mentioned in any previous report, is a catalogue of portraits of meteorologists. This has been in progress for several years and is probably the only one of its kind in existence. At least one additional trained assistant is greatly needed, in order to enable the library to undertake important work outside of routine.

MARINE METEOROLOGY.

The marine meteorological work progressed satisfactorily during the year. A larger amount of data was furnished the Hydrographic Office for publication on the Pilot Charts, and at the same time an increased volume of material of value to marine interests was supplied through publications of the bureau.

During the year arrangements were perfected for an interchange of marine reports with the French meteorological service.

The amount of data furnished for use in admiralty cases was about the same as in previous years.

It was possible near the end of the year to augment the force engaged on the marine work at Washington, where a reduction had been necessary during the preceding year. A further increase of this force is needed to make greater use of the material now being reported by observers, and which supplies the fullest record we have of detailed weather conditions over the Northern Hemisphere.

The volume of reports reaching the bureau still reflects the depressed state of shipping, but shows, nevertheless, the continued interest of seamen in the marine meteorological work.

Reference to the increasing use of radio at sea and its influence on the transmission of weather information will be found elsewhere.

INSTRUMENT DIVISION.

The maintenance of the instrumental and storm warning equipment of the Weather Bureau, which has an estimated value of $700,000, together with the purchase of necessary new equipment, has been accomplished at an expense of about $26,000. Station officials have cooperated with the division by making diligent effort to keep down expenses without permitting the equipment to deteriorate.

The major portion of the work of repairing instruments, including the rebuilding of special thermographs for fruit frost investigations, has been performed in the instrument shop, and important progress has been made in the development of new forms of apparatus and instruments.

A new form of solar radiation receiver, utilizing the principle of thermo junctions, was worked out with the joint efforts of several members of the technical staff of the bureau and is now being successfully used in recording solar radiation intensities.

The evaporation program inaugurated in 1916 has been continued. Regular reports are being rendered by 47 stations, and the results are published in the State section reports. An annual summary for all stations appears in the statistical section of the annual report of the Chief of the Weather Bureau.

Investigations of the relation between anemometer cup movement and actual wind velocity, begun more than 20 years ago by Prof. C. F. Marvin and limited in scope at that time by the difficulty of obtaining high velocities, have been resumed, and as a result the relations are now known up to 113 miles an hour actual velocity. This investigation has been conducted jointly by Messrs. Fergusson and Covert of the instrument division, using the wind tunnel of the Bureau of Standards, which was primarily constructed for the study of problems in aviation, and in which high velocities under control are easily produced. Many other forms of anemometers, different sizes of cups, and lengths of arms, were also made subjects of experiment, with a view to the early design of an anemometer to record true wind velocities, and the preparation of corrections applicable to the records of the Weather Bureau, which are all on a uniform basis of indicated velocities.

Exhibits.—An exhibit to show the activities of the Weather Bureau has been prepared for the Brazilian Centennial Exposition, also three self-demonstrating exhibits and one instrumental exhibit to accompany the Government exhibits sent over circuits routed to State fairs in the United States. This work is carried on cooperatively with the Office of Exhibits.

As a result of the wide distribution of Farmers' Bulletin No. 842, Modern Methods of Protection Against Lightning, the Weather Bureau is being called upon with increasing frequency to answer letters of inquiry in regard to methods to be used in particular instances. R. N. Covert has been named Weather Bureau representative on a committee to formulate a code whose purpose is to specify safe practice in lightning protective measures.

INVESTIGATIONS IN SOLAR RADIATION.

Continuous registration of the quantity of heat received from the sun at the surface of the earth from day to day has been maintained at Washington, D. C., since 1909; at Madison, Wis., since 1911; and at Lincoln, Nebr., since 1915. In addition, on clear days the intensity of direct solar radiation has been measured at the above stations and also at Santa Fe, N. Mex. At the later station these measurements were discontinued at the end of March, 1922, when the Weather Bureau office was moved to the new Federal building, which does not afford suitable exposure for pyrheliometers; and at Lincoln, Nebr., the registration of the heat energy received from the sun has been discontinued temporarily on account of a defect in the recording pyrheliometer. It is expected that the early completion of a recording pyrheliometer of improved design will make it possible to replace this defective instrument in the near future.

In addition to heat measurements, the intensity of direct sunlight and of diffuse skylight has been measured on almost every day at Washington during 12 months ending with April 6, 1922, except that for about four weeks in July and August, 1921, and for a like period in January, 1922, the measurements were made at Chicago, Ill.

From the sky-brightness measurements thus obtained charts have been prepared showing the resulting illumination on vertical surfaces, such as the walls of buildings, facing the eight principal points of the compass, for each hour of each day throughout the year for latitude 42° north, with the sky free from clouds and also completely covered with clouds. The charts are based on the measurements made in practically smoke-free atmosphere in a suburb of Washington, but the percentage of diminution in illumination resulting from a smoke cloud such as usually prevails at Chicago has been determined.

Even with skies entirely free from clouds the brightness and the resulting illumination may vary by as much as 50 per cent from the mean value represented by the charts. This is due principally to the presence of haze or dust in the atmosphere to a greater or less degree. A clear blue sky, which is rare at Washington, is dark as compared with a white hazy sky. Thin clouds increase the brightness of the sky markedly, and especially in the vicinity of the zenith.

A preliminary report on the sky-brightness measurements has been published in the Monthly Weather Review, and also in the Transactions of the Illuminating Engineering Society. A more complete report is now in preparation.

These results are of practical importance to illuminating engineers and others having to do with questions of natural lighting, especially as applied to school rooms, office buildings, and industrial plants.

There yet remain to be considered the effect upon interior illumination of substituting for skylight the daylight reflected from the walls of neighboring buildings, and also the interior illumination from skylight when the so-called saw-tooth roof construction is employed. It is hoped to solve these two problems during the coming year.

It is also the expectation to take part in an international investigation of the dust content of the atmosphere that has been planned by the meteorological section of the International Geodetic and Geophysical Union.

The official in charge of solar radiation investigations took advantage of a trip to Europe as a delegate to the International Institute of Agriculture and to the International Geodetic and Geophysical Union, both meeting in Rome in May, 1922, to consult with European meteorologists on various topics, more particularly those relating to solar radiation studies.

PART II.

GENERAL SUMMARY OF THE WEATHER CONDITIONS IN THE UNITED STATES DURING THE YEAR 1921, WITH CHARTS.

LIST OF OBSERVING STATIONS AND CHANGES THEREIN DURING 1921.

SUNSHINE, 1921.

DETAILS OF EXCESSIVE PRECIPITATION, 1921.

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REVIEW OF WEATHER CONDITIONS DURING THE YEAR 1921.

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

The conspicuous feature of the weather of 1921 was the persistent warmth. In all the country, save portions of the Pacific States, the year averaged warmer than normal, and almost everywhere east of the Rocky Mountains at least 2° warmer than normal. In Missouri and Illinois every month of the year averaged above normal in temperature, and from those States northeastward to include most of the Lake region the year averaged fully 4° warmer than normal.

From the Plains States eastward, except in New England and close to the Middle and South Atlantic coast, the year was the warmest since State-wide averages were computed, about 30 years; and from Iowa eastward and southeastward to Ohio and Kentucky it was the warmest by 2° or more.

The abnormally warm months over the greater part of the country were January, February, March, July, September, October, and December; but no month averaged cooler than normal over as much as three-fifths of the area of the country.

During the crop season the average temperature departure, which is shown on Chart 1, was about the same as during the year as a whole. However, most of the Plateau region averaged during the crop season a little cooler than normal, while nearly all the Lake region averaged fully 5° above the normal temperature for the period. The Gulf States, particularly Texas, averaged but slightly warmer than normal for the crop season as a whole, the early and late months of the year being the ones that especially exceeded the usual figures.

A warm year is frequently a dry year, with considerable shortage of crop yields, as compared with the average, over much of the United States. Charts 2, 3, and 4 present information as to the precipitation of the crop season and the year. Chart 3 indicates that the crop-season rainfall was above normal over most of the eastern half of the country, except from Virginia and eastern Kentucky southward, where there was some deficiency in most districts. In most parts of the Dakotas and considerable portions of Kansas and Oklahoma the amounts were above or else very close to normal, and the distribution in point of time was, as a rule, more favorable than usual during hot summers. During late June, the first part of July, and the first half of August there were considerable rains of great importance to crops over very many central and northern districts.

The precipitation of the entire year, which is shown on Chart 4, was greatest, as generally happens, in parts of the Pacific and Gulf States and in portions of western North Carolina. In the southernmost parts of Arizona and California the totals were more than usual, and the area of least rain is this year found in the eastern part of California a little north of latitude 35°. The year brought more precipitation than usual in Colorado and most of Utah, also in most of North Dakota and eastern Montana. In the cotton region the year was mainly drier than normal, likewise in northeastern districts, and in Nebraska and the north-central part of Kansas. The snowfall of the year was especially light in Illinois and parts of the States adjoining, and over nearly all north-central and northeastern districts there was less interference than usual with railway and highway traffic.

JANUARY.

Over most of the country January was mild, with rather uniform temperatures. In California, however, the month was slightly cooler than normal. From the northern Rocky Mountains eastward and southeastward to the central valleys and the upper Lake region the month was almost as warm as any January on record, exceeding the normal by from 8° to 15° per day.

The precipitation was greater than normal in the Pacific coast region and from central and eastern Texas northward to the middle Plains, likewise in most of North Carolina and adjacent parts of other States. For most of the country, on the other hand, there was less precipitation than the January average, and the deficiency was marked in most southeastern districts and in the Ohio and upper Mississippi Valleys, and in the Lake region. In most middle and northern districts east of the Rocky Mountains there was less snowfall than usual during January.

FEBRUARY.

Mild weather continued over practically the whole country, as during the other winter months that had preceded. Just before the middle of the month it was especially warm for the season in most districts, while just afterwards moderately cool weather prevailed over the far West. The month as a whole was warmer than normal in every district, and again the departure was about 10° per day over the Missouri and upper Mississippi Valleys.

Again much the greater part of the country had comparatively little precipitation. There was a moderate excess over the southern Appalachian region and westward through Tennessee and northern Mississippi to eastern Arkansas. Likewise in the North Pacific States there was more precipitation than normal. The deficiency was marked in the Lake region, the central and upper Mississippi Valley, the Plains and Mountain States, and thence southwestward to California. The snowfall was generally scanty, save for an area from northern Texas northeastward to New England, where a notable snowstorm occurred during the third week of the month.

The winter as a whole was noted as being only the second in a 50-year period when ice was not cut in the Mississippi River at Keokuk, Iowa, while the snowfall at Chicago was less than in any previous winter of record. On the lower Connecticut River it was the first winter that there had not been ice enough to stop operation of steamboats.

MARCH.

Once more the temperatures were mainly far above normal, but in the interior and north-central districts there were a number of cold spells. The most damaging cold wave of the month, though not in all States the coldest, occurred during the last few days; freezing temperatures reached northern Texas, northern Alabama, central North Carolina, and the coast of Virginia. Vegetation had advanced so far, being in many regions a whole month ahead of its usual state, that there was great injury, especially to fruit, from the southern Plains northeastward to the Ohio Valley and eastward to the southern part of the Middle Atlantic States.

In every portion of the land the month averaged warmer than normal, and in the Atlantic States, the upper Ohio Valley, and the lower Lake region it was usually the warmest March of record. The ninety-year record at Providence, R. I., showed no other March as warm. The part of the country where the warmth was most notable had shifted to eastward, and was now found in the central valleys, the southern part of the Lake region, and thence eastward over the Atlantic States from the Carolinas to New Hampshire; here the excess was about 8° to 12° per day.

The precipitation was usually of greater amount to eastward of the Plains than during the months preceding, yet the distribution was not favorable. Over the lower Mississippi Valley and the regions northeastward as far as central Ohio there were very heavy rains, while from South Carolina to Florida and southeastern Alabama there was usually little, and conditions were droughty in localities. In the rest of the eastern half of the country there was enough moisture, as a rule, and seldom a harmful excess. From the Plains States westward there was usually less precipitation than normal, save near the northern border.

APRIL.

April brought considerable variations in temperature, both from time to time and from place to place. The first few days were mainly warm in western and north-central districts.

About the 6th a change to colder set in over the West, ending the tendency to warmth that had prevailed for more than three months. For most of the country the next fortnight was cool, and serious frosts occurred in the Carolinas and Georgia, also bad freezes in some central districts. The final third of the month was mainly warm in eastern and north-central regions. The month averaged colder than normal in the Gulf States and in the Rocky Mountain region and to westward; but warmer from the middle and northern Plains eastward, being in the Lake region and the districts to eastward among the warmest Aprils on record.

The precipitation was heavy in the lower Mississippi Valley, and fairly heavy to northward over the central valleys and the upper Lake region. In the Appalachian region and to eastward it was mainly a little below normal, but usually sufficient. In the upper Mississippi Valley, the Plains, and to westward much irregularity in distribution appears, but the amounts in Kansas, Colorado, southern Wyoming, and the far Northwest were mainly above normal, while in South Dakota and near the Mexican border there were marked shortages. An unusually heavy snowfall for the time of year occurred in much of Iowa and northern Illinois and some adjacent districts about the middle of the month.

MAY.

The first half was marked by cool weather in nearly all districts, but the last half, especially the final 10 days, brought warmth again, notably in the central valleys and the middle Plains and to northward. The month as a whole showed no part of the country with a marked temperature departure, being thus unlike each of the eight months preceding. Generally the month averaged warmer than normal near the northern border, in the Ohio, Mississippi, and lower Missouri Valleys, the middle Plains, and in much of the west Gulf region. Over most of the rest of the country the month was cooler than normal, with deficiency reaching 2° to 4° a day in California and in the Atlantic States from Maryland southward.

The precipitation was fairly well distributed, and outside of the Lake region, the southern Plains, and the central valleys, few large areas had marked deficiencies. From Pennsylvania southward the Atlantic States had liberal rainfall, and much of southern California had the heaviest rainfall it had ever recorded at this time of the year. Also the precipitation was rather heavy in northeastern Kansas, northern Iowa, and southern Idaho, with the portions of other States which adjoin one or the other of these.

JUNE.

In the Southeast, and especially in the central valleys, the month was warm throughout, and after the first week or so all north-central districts had marked warmth for June with no material break. In the Northeast and in the middle and southern Rocky Mountain and Plateau regions temperatures varied somewhat. The month averaged close to normal temperature, but usually a trifle cooler, from Texas and Oklahoma westward to California, also in northern New England. Elsewhere the month was hotter than normal, and from eastern Montana eastward and southeastward to Wisconsin and Indiana it was the hottest or almost the hottest June on record.

From the Atlantic coast to the Mississippi River, also from the southern portions of Iowa and Nebraska northward, the rainfall was usually less than normal, but the shortage was not serious in many portions of these areas. Between the Mississippi River and the crest of the Rocky Mountains, save as noted in the sentence preceding, there was liberal and often excessive rainfall. Early in the month southeastern Colorado and portions of States adjacent were visited by severe floods, with considerable loss of life. From the Rocky Mountain Divide westward the rainfall was usually scantier than even the normal, and in the far Southwest stock suffered considerably from shortage of water and feed.

JULY.

The month was marked by steady heat, but with scarcely any exceedingly high temperatures, over much of the country. The first three weeks were especially hot from the Dakotas

and Nebraska eastward to the Middle Atlantic States. The month averaged a little cooler than normal over most of Florida and the vicinity, from Texas to south-central Utah and west-central Arizona, and in most portions of the North Pacific States and northwestern California. Elsewhere the month was hotter than normal, and in most of the Lake region and the northern Middle Atlantic States it was the warmest July, if not the warmest month, on record.

The rainfall was at least fairly generous over the majority of the States from the Rocky Mountain slope eastward, but the distribution was irregular. Over a large part of the Ohio Valley, and from Arkansas and Missouri northward over west-central Illinois and eastern Iowa, the amounts were seriously deficient, also in western and central Texas and eastern Oklahoma. In the far Northwest also the scanty rains that are expected in midsummer were even fewer and scantier than usual. However, in most of Arizona, New Mexico, and New England there was more rainfall than normal, likewise near the middle and east Gulf coast and in most counties of the South Atlantic States.

AUGUST.

Average summer weather prevailed, with no very notable features. During the first half of the month, temperatures in northern and middle districts east of the Rocky Mountains were generally below normal—a welcome change from the persistent heat of the preceding part of the summer. The Atlantic States continued rather cool till the close of the month, and, with the upper Ohio Valley, averaged slightly cooler than normal for the month, as did the far Southwest. Practically all the rest of the country averaged warmer than normal, but no part very much warmer.

A very large portion of the country from the Plains eastward had quite beneficial rain early in the month, and the region of the central valleys had additional showers for a time afterwards. However, from the middle of the month onward rainfall was rather scanty, if not quite lacking, over a large portion of the country. The month's rainfall was not well distributed, being mainly scanty from Maryland to the Carolinas, and again from western Alabama westward almost to the border of New Mexico, also over very large parts of the northern Plains and the States to westward of them. In the far Southwest the rainfall continued liberal, and the central valleys and the Lake region usually received a good supply.

SEPTEMBER.

Once more the leading weather feature was the steady, abnormal warmth over most of the country; high temperatures were particularly prevalent in the cotton region, the Ohio Valley, and the Middle Atlantic States, where this was the warmest or almost the warmest September of record. In Montana, the Northern Plateau States, and the interior portions of the Pacific States the month was cooler than normal, with marked frost damage in many localities about the 13th.

The rainfall of the month was poorly distributed. In the Atlantic States and the east and middle Gulf regions it was usually less than normal, likewise in a few parts of the Plains and in nearly all districts west of the Plains. While much of northern and western Texas had little rain, and felt much need of more, a considerable area in central and southern Texas had extremely heavy rains about the 9th, resulting in vast damage and considerable loss of life. Most portions of the Mississippi and Ohio Valleys had more rain than normal, and over many areas the downpours were quite detrimental.

OCTOBER.

October was mainly a month of pleasant, mild weather. However, during the first half the districts from the Plains eastward had considerable cool weather for the season, and this was particularly true of the southeastern part of the country, so it resulted that most of that part had the average temperature of the month slightly below normal. Most of the country averaged

warmer than normal, the departure being greatest from the northern plateau eastward over the northern Plains.

Some portions of the country had moderate rainfall early in the month, but otherwise there was decidedly little precipitation till the fourth week. The monthly amounts were above or near normal in the Lake region, the Ohio Valley, and thence southward over the southern Appalachians. The Florida peninsula had much more than normal, chiefly owing to the passing of a tropical hurricane late in the month. The north Pacific region had usually a little more than normal precipitation. Practically all other portions of the country had considerably less rain than normal, and the shortage was marked in the middle and southern parts of the Plains. In Oklahoma the average rainfall was less than a quarter of an inch, or about one-tenth of the monthly normal quantity.

NOVEMBER.

Over the Missouri Valley and most of the eastern half of the country temperatures were changeable. The first half of the month was largely cooler than normal in the northeastern portion, but elsewhere warmer. About the 16th to 20th quite cold weather for the time of year penetrated the northern border districts from the Pacific to Lake Superior, and the cold extended southward with some loss of intensity, and more gradually over the nothernmost States east of the Mississippi. In most districts, however, the cold weather lasted but a few days. Along the northern border the month averaged cooler than normal, but the cool strip was usually but 100 to 200 miles wide, though it did extend southward in central districts to about the Iowa-Missouri border. From the vicinity of western Iowa to southern Michigan this was the first month cooler than normal since November, 1920, or in some cases since August, 1920. For most of the country the month was warmer than normal, especially for the southern half and in the Rocky Mountain and plateau regions as far north as the southern portions of Wyoming and Idaho. From Minnesota eastward to Maine the month had an unusual amount of cloudiness.

There was not much precipitation during the first half of November, except from the Ohio Valley northeastward as the month opened, in the Pacific Northwest about the 6th, in some southeastern districts about the 9th, and at the same time near some of the Great Lakes, with heavy snowfall in part of Michigan. From the middle of the month onward precipitation was frequent and moderate to heavy in many parts of the country. Among the notable falls were decidedly heavy rains in the central valley districts about the 17th, a destructive glaze storm in northern Oregon about the 19th, and another in central New England about the 28th. As often happens with glaze storms, there was heavy snowfall to northward of the area where weight of ice damaged trees and wires, and rains fell to southward. The monthly amounts were large from northern Arkansas northeastward to New England, particularly in the lower Ohio Valley; also there was much precipitation in the north Pacific region, and in many parts of Idaho and Montana. On the other hand, precipitation was scanty in the middle Gulf region and the southern half of California, and especially, even for the place and the season, from Texas and New Mexico northward and northeastward to Minnesota and eastern North Dakota.

DECEMBER.

The first half of the month was mainly warm, but about the middle cold weather overspread much of the West and slowly extended eastward, but did not greatly affect the Southeast. By the last few days mild weather had again reached about all the western half of the country. The month averaged especially warm for December in almost all southern portions, likewise in the Dakotas, western Minnesota, and eastern Nebraska. Elsewhere it averaged close to or slightly warmer than normal, except in the far Northwest and the extreme Northeast.

The precipitation west of the Continental Divide, except in the north Pacific region, fell chiefly after the middle of the month, but elsewhere it was fairly well distributed. The total amounts were usually below normal from the Divide eastward, especially in the Plains States and New Mexico, parts of which had received no important precipitation for two months or

more preceding, with harmful results to fall-sown grains and to ranges. Much of the Ohio Valley had heavy rainfall, while most of Michigan and eastern Wisconsin had a little more precipitation than normal. The Plateau States had usually more than the December normal amounts, while California had a notable excess, some southern stations recording during the last two weeks amounts not far from their normal annual falls.

TORNADOES, 1921.

The tornadoes that occurred during 1921 were rather numerous and in cases unusually destructive in the States from Texas eastward and northeastward to Alabama and Tennessee. At two periods especially there were many storms, the earlier covering 40 hours in mid-April, from the first tornado in Oklahoma to the last ones in Mississippi and Alabama, the total number being probably 19, and the later a shorter space of time, on December 23 and 24, when Arkansas, Tennessee, Louisiana, and Mississippi were visited. There were no tornadoes of marked importance in Kentucky or Virginia, or anywhere to northward or northeastward; also from the middle and upper Mississippi Valley westward there were hardly any notable ones in 1921.

The Monthly Weather Review printed reports of several of the most severe tornadoes; also in the division of the Review entitled "The Weather of the Month" a chronological list of storms of at least moderate importance was published. This list, however, included thunderstorms, hailstorms, cloudbursts, and glaze (popularly "sleet" or "ice") storms.

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.—On March 9, about 2 a. m., a violent local storm, which was probably a tornado, started a little east of Macon, Noxubee County, Miss., and moved through the western and central parts of Pickens County, Ala., in an east-northeastward direction, to a few miles east of Reform. In all the storm covered 38 miles, about two-thirds of this course being in Alabama, and its path was an eighth of a mile wide. In Alabama 2 persons were hurt and there was damage of about $1,200.

During the forenoon of March 31, about 9.15, a violent storm traversed part of Baldwin County, near Zundels, on the east shore of Mobile Bay; it is thought this was a tornado, though the path was rather broad (about a mile) and short (2 miles) for such a storm. The direction of motion was eastward. Five persons were injured and the property loss was about $5,000. It is noteworthy that about five hours later, more than 200 miles away to east-northeastward, a tornado struck Albany, Ga.

On April 16, at the time when tornadoes occurred in so many south-central districts, there were 5 in Alabama. The earliest and most northwestern is probably the storm that was noted in northeastern Mississippi, near Columbus, Lowndes County, during the night of the 15-16th. Having crossed the State line, it was in Lamar County, Ala., about midnight, moving north-northeastward. In Marion and much of Franklin Counties it was not reported, but near the border of Franklin and Colbert it caused damage about 2 a. m. There was special damage near Tuscumbia, in northeastern Colbert County, at 3.20 a. m.; and the storm then crossed the Tennessee River and Lauderdale County to the Tennessee line. Probably this was the storm that visited Marshall, Bedford, and Rutherford Counties, Tenn., a little later. In this case its whole path was about 190 miles, 100 miles being in Alabama, and the progress was about 35 miles an hour. The next two tornadoes were simultaneous, and about in line, being roughly 50 to 80 miles southeast of the path of the first storm. The southwestern was close to the Mississippi border, in western Choctaw County, at 6.30 a. m., but there are no indications that it started in Mississippi; its path was wholly in that county, as far as known, lying less than 20 miles to northeastward. Just about 80 miles in advance of it, as it moved, was the other tor-

nado, starting near the border of Greene and Tuscaloosa Counties, and causing great damage in the latter. What was probably the same storm, having turned more to eastward, traversed Jefferson County, near Birmingham, between 8 and 9 a. m. In all this tornado traveled about 80 miles in 145 minutes. A few miles to southeastward of the point midway of the gap between the tracks of the second and third tornadoes, the fourth tornado of the day occurred, somewhat later, namely, 10 a. m. The damage was mainly near Gallion, in southern Hale County, and the direction the storm took is stated as north-northwesterly. The last tornado, like the first, had a long track. It seems to have started about noon, in eastern Dallas County, and to have crossed Lowndes, Autauga, Elmore, and Tallapoosa Counties, then the northwestern part of Lee, then most of the southern portion of Chambers, to very near the Georgia line. No reports have come to indicate that it entered Georgia. In all the storm traveled over 100 miles, at a speed of about 36 miles an hour; its direction was east-northeastward, and from western Elmore County onward it followed closely the tornado track of the southern and more severe tornado of March 28, 1920, the 1921 storm being usually a few miles to southward. The total losses in Alabama from the tornadoes that day are estimated as 10 lives and $750,000, the majority of the fatalities occurring in the path of the first storm, near Tuscumbia.

Arizona.—No tornadoes reported.

Arkansas.—Except the much larger State of Texas, Arkansas seems to have had more tornadoes during 1921 than any other State. The first occurred during the afternoon of March 17, in the eastern portion of Independence County, the storm traveling a few miles to southeastward, injuring several people and causing property damage to the amount of $10,000.

On April 15 there were four tornadoes in Arkansas, and one of them was among the most destructive of recent years. The earliest and most northwestern apparently formed in the southwestern part of Yell County, about 3.30 p. m., and after a long course northeastward through that county, crossed the Arkansas River, and continued several miles through the southern part of Pope County. In all, the storm covered almost 60 miles in 90 minutes, with the path of destruction about 500 feet wide at the start, but much wider near the end, one report making it about half a mile wide. The loss of life was 5, all but one in Pope County; but the property damage was almost wholly in southwestern Yell County, near the start, and was fully $60,000 in all.

While the first tornado was near the middle of its course, the second and most disastrous was entering the State. This storm was at Avinger, Tex., at 2.50 p. m., and it probably formed in or near Smith County, Tex., as early as 1.20 p. m. It was about 4 p. m. when it entered west-central Miller County, which is the most southwestern county of Arkansas, at a point about 8 miles south of the city of Texarkana. The course taken was into northern Miller County, then across Hempstead County from southwest to northeast, then several miles onward into the southeastern part of Pike County. In Arkansas the storm covered about 60 miles, and in all not far from 140 miles, at an average speed not far from 35 miles per hour; and the direction, while shifting somewhat during the course, was generally to north-northeast. The track of destruction was a mile and a half wide in part of Hempstead County, but usually of much less width, sometimes only one-fourth mile. Had this storm continued its direction and speed, it would have been passing nearly parallel with the track of the first tornado, about 40 miles to southeastward of that track, approximately three hours later, and it would have been quite near Marche at the time the third tornado occurred there. The second tornado killed 16 persons in Miller County, 34 in Hempstead, and 1 in Pike; that is, 51 in Arkansas besides the 10 in Texas; while the property damage is put at $1,225,000 in Arkansas, about four-fifths of it being in Hempstead County.

A few hours later the other tornadoes of the day occurred in Pulaski County, in the center of the State. The third was at Marche, at 8.18 p. m., while the fourth was at Wrightsville, about 20 miles to southeastward of Marche, at 8.45. These moved short distances northeastward, with paths a half mile wide at Marche, but only 100 yards at Wrightsville. No deaths resulted, but at Marche a few were hurt; and the property loss was $10,000 at Marche, but only $2,500 at Wrightsville.

On the morning of the 26th of April, a few hours before a small tornado occurred in northern Missouri, about 350 miles to northward, and a more disastrous one in southern Mississippi, nearly 200 miles to south-southeastward, there were two tornadoes in eastern Arkansas, one at Carlisle, Lonoke County, and the other, about 60 miles to southward, at Gould, Lincoln County, but practically on the border of Desha County. No deaths resulted, but there was damage to the amount of $20,000.

On June 23, when the center of a vigorous low-pressure area of tropical origin was about 200 miles distant to southwestward, there was a violent local storm, probably a small tornado, in northeastern Pulaski County. One person was injured and there was damage of about $5,000.

On the afternoon of September 7 there was a small tornado in Independence County, very near where the tornado of March 17 of this year occurred, but the damage was slight.

On November 17 there were two tornadoes, the first in the west-central part of the State and the second in the south-central. The first was in southwestern Polk County; it was of short path, and is said to have moved eastward. Near Wickes a house collapsed, and all eight occupants were killed. The time was about 5 p. m. It was about three hours later when the second was first noted, almost 70 miles from Wickes, in a direction slightly south of east, near Degray, Clark County. This storm took a northeastward course, and crossed Hot Spring County, doing much harm near Magnet, to the southeastern part of Garland County, in all about 35 miles. The path in part of Hot Spring County was nearly a mile wide, but usually it was narrower. In each of the three counties traversed one person was killed, while the property loss, largely to timber, was nearly $20,000. The following day there was a tornado near Marshall, Tex., a little over 100 miles to south-southwest; also the night after that a violent storm which was possibly a tornado struck Poplar Bluff, in southeastern Missouri, about 200 miles to northeastward of the end of the second Arkansas track.

On December 23, about 4 p. m., a tornado struck Clarkedale, Crittenden County, in eastern Arkansas, about 17 miles northwest of the city of Memphis, doing great damage in a path 500 feet wide. Clarkedale was about the middle of a 15-mile course covered in Arkansas, but the storm went on about three times as far into Tennessee. There were at least six killed in Clarkedale and vicinity, and the damage in Arkansas was about $150,000. Within a few hours later there were tornadoes within a few hundred miles to southward and southwestward in western Mississippi and northern Louisiana.

California.—What is considered the only tornado in California for at least six years occurred in Sacramento, on October 26, about 2.45 p. m. The tornado was a small one, the damage being confined to a narrow track only about 1,000 feet long, within which many buildings were injured, the total property loss being about $17,000. Several persons were slightly hurt. The direction of the storm was northeastward.

Colorado.—A tornado visited Washington County, in northeastern Colorado, at 4 p. m., May 31, probably starting about 9 miles north of Akron, and moving 15 miles southwestward, an unusual direction, with path of damage from a quarter to a half mile wide. One person was seriously hurt, and there was considerable injury to buildings, machinery, fences, trees, and crops.

Florida.—A small tornado visited Lake Alfred, Polk County, in the central part of the peninsula, about 4 a. m., April 23, traveling first southeastward, then eastward, and ended near Lucerne Park, about 5 miles east. The path was about 500 feet wide. One person was hurt, and the damage to buildings, orange groves, and timber was about $15,000.

On May 16, near East Palatka, Putnam County, there was a violent windstorm, with some information favoring the idea that it was a tornado; but the evidence is very far from conclusive, so the damage and the 2 deaths are put in the table, "Losses from windstorms other than tornadoes."

Georgia.—In the western part of Washington County, which is located somewhat to eastward of the center of the State, Gardner and Oconee were struck by a tornado during the after-

noon of February 10. At the former, which is a mill village, 28 persons were killed, and about 50 buildings destroyed; while there was considerable damage at Oconee, but no loss of life. Over 60 miles away, in direction between northeast and east-northeast, Edie, in southern Richmond County, was visited that day by what was probably the same tornado, and there was damage, without loss of life.

A tornado crossed the northern part of Albany, Dougherty County, about 2.15 p. m., March 31. Two persons were killed and many injured here. What was probably the same storm struck the earth about 12 miles to northeastward, near Oakfield, in the northwestern part of Worth County, where there was some additional damage. In all the property loss was about $200,000. There was a violent storm, which was probably a tornado, five hours before the Albany storm in Baldwin County, Ala., over 200 miles to west-southwestward, but no severe winds were reported between the two spots named.

On April 16, at 11.40 a. m., there was a severe storm, probably a tornado, at Rome, Floyd County, in northwestern Georgia; several people were injured, and there was damage amounting to $50,000. This place is situated about where the tornado of Tuscaloosa and Jefferson Counties, Ala., from about 6.30 to nearly 9 a. m. that day, would have advanced by 11.40 had it kept its direction and speed of motion; however, there was no damage reported over the interval of about 100 miles. The fifth Alabama tornado of that day was, however, traced about to the Georgia line, and would have advanced into Troup County or the northwestern part of Harris; but no severe windstorm was reported from that part of Georgia. The windstorm at Blakely, in southwestern Georgia, about 10 p. m. that day, also the storm of narrow path in Thomasville, on April 22, are thought not to have been tornadoes, and the damage is reckoned in the table on a following page.

Idaho.—No tornadoes reported.

Illinois.—There was a comparatively unimportant tornado in southern Adams County, west-central part of the State, not far from Plainville, March 20. It moved eastward about 4 miles, with path a half mile wide; and caused $1,500 damage to property, though no person was even injured.

In McHenry, which is one of the Wisconsin border counties, there was a tornado on June 20, which passed a mile west of Marengo and covered 3 miles in all. There was damage to buildings to the extent of $1,000, but no person was reported hurt. About 150 miles to northward, in east-central Wisconsin, there was a tornado that day, but no damage between the two places is reported.

On September 4, about 5.30 p. m., a small tornado which started in the outskirts of Burlington, Iowa, is reported to have crossed the Mississippi River into Henderson County, Ill. There was slight wind damage that day at Monmouth, Ill., about 20 miles east of Burlington, but this has not been connected with the Iowa tornado, which probably did not go far or cause much loss in Illinois.

Indiana.—On April 25, at 11.50 p. m., a windstorm, probably a small tornado, passed northeastward through Greencastle, in central Putnam County. The damage, however, was trifling.

On July 5, about 4 p. m., a broad path of damage, which was about 2 miles wide, was left by a northward-moving storm in the southwestern part of Spencer County, which was probably a tornado. This storm came from Kentucky, near or to westward of Owensboro, and crossed the Ohio River into Spencer County. The damage is estimated at $100,000, but a portion of this was due to flooding of bottoms because of the heavy rains that accompanied the windstorm. No deaths were attributed to the wind.

On September 29, about 7.50 p. m., a narrow and rather sharply defined path of devastation was made by wind in the southeastern part of Terre Haute. It is believed that the storm was not a true tornado, so the loss is included in the table on a following page.

About 2 a. m., November 19, there was much wind destruction in southern Spencer County, also in western Daviess County, Ky., which is just across the Ohio River. The names of places

where damage occurred indicate the storm probably came from Kentucky into Indiana, moving northeastward. As there is no clear evidence of the tornadic character of the storm, the loss is included in the table on a later page.

Iowa.—On March 26, about 7 to 8 p. m., a tornado occurred in western Iowa, pursuing a northeastward course 28 miles from north of Arthur, Ida County, to several miles northeast of Fonda, Pocahontas County. There were no fatalities, but 14 people were hurt, and there was property loss of $100,000. About 90 miles to northwestward, Nobles County, Minn., had a severe storm, probably a tornado, late the same day.

On April 25 there were severe windstorms in several parts of Iowa, four of the reports indicating tornadoes. The greatest damage was near 2 p. m. at Dubuque, about $50,000; the storm advanced northeastward through the southern and eastern portions of the city, the path being about 6 miles long. About noon the longest of the other paths was made, about 20 miles being near Muscatine, about 70 miles south-southwest of Dubuque, the damage here being $20,000. Not many miles northwest of Muscatine there was a short path, with $6,000 damage, near Iowa City. The other storm was in northwestern Iowa, at Correctionville, over 200 miles distant from the places just named; the path here was short, and the damage was but $2,000. These storms of April 25 did not result in any personal injury as far as known. It may be noted that between 11 p. m. and midnight that day there was apparently a small tornado in Indiana, while the next day two tornadoes occurred in Arkansas and one in northern Missouri.

On the afternoon of May 9 there was probably a small tornado near the north edge of Mahaska County, but the damage was insignificant. On the afternoon of the 26th, however, there were two severe tornadoes, each starting in Cerro Gordo County and advancing into Worth, in the north central part of the State. The western covered 11 miles, moving northward, about from Clear Lake to Hanlontown, at approximately 2.45 p. m.; there was property loss of $200,000, and 2 people were killed. The eastern traveled northwestward 5 miles, from Plymouth to Manly, with path a quarter mile wide; there were 2 killed, while the damage was estimated as $300,000. This storm was less than an hour after the western one, and its path was 10 or 12 miles distant. The same day, about 4 p. m., a short tornado path was traversed in Delaware County, near Manchester, about 100 miles southeast of Plymouth; here the damage was but $2,000, and nobody was even hurt, as far as reported. It may be noted that a small tornado occurred about 6 p. m. that day in northeastern Kansas, and the next day there was a tornado in southern Michigan.

The 4 deaths from the tornadoes of May 26, were the first in Iowa attributed to such a storm for a period of a little more than three years.

The tenth and last tornado of the year in Iowa occurred on September 4, about 5.30 p. m. It developed at the western edge of Burlington and moved eastward, with path 100 yards wide, for about 2 miles; and it seemed to cross the Mississippi River into Illinois but probably did not go far or do much harm in that State. In Iowa, while no person was hurt, there was damage amounting to $3,500.

Kansas.—On April 4, between 6.30 and 7.20 p. m., the eastern part of Seward County, which is in the southwestern portion of the State, had a tornado, which moved toward the northwest. Some eyewitnesses declare that, for a time, three tornado clouds were moving in company. The damage was trifling, as the country is open. (Single arrow on chart.)

On May 9 there were two tornadoes, the earlier in Lincoln County, a little north of the center of the State, forming about 4.10 p. m. a little east of the town of Lincoln, and moving 10 miles to the northwestward. The tornado was small and there was not much damage. The second storm was in the northeastern portion of Kansas, forming about 5 p. m. 3 miles west of Mayetta, Jackson County, and moving 10 miles, in a direction very slightly west of northward. The path at first was narrow, 100 feet, but later widened to quarter of a mile. There were 5 persons hurt, and the injury to buildings was about $5,000. It is reported that there was a small tornado later that afternoon in eastern Iowa, and a severe one occurred the next day in Tennessee.

On May 26, a few hours after the occurrence of three tornadoes in Iowa, a small tornado visited parts of Topeka, Kans., about 6 p. m., moving about 2 miles eastward, with narrow path; at intervals only it touched the ground, doing slight damage to outbuildings and trees.

About 4.30 p. m., August 3, there was a tornado in Greeley County, near the Colorado border. This began 17 miles northwest to west-northwest of Tribune, and moved about 10 miles to southeastward, with path 100 feet wide. The damage was slight and no person was harmed.

The windstorms at Dighton, on the afternoon of August 9, and a few miles south of Dodge City, about 4 p. m., August 28, are thought not to have been tornadoes, and the losses are reckoned in the table on a later page.

It is reported there was a small tornado on September 7, doing no appreciable damage, near Plains, or about where the tornado of April 4 occurred.

Kentucky.—On March, 24 there were violent windstorms in Scott County, north of Lexington, and in Madison County, which lies southeast of Lexington. The Scott County storm is thought to have been a tornado; it advanced northward, with track three-fourths of a mile wide, with damage to buildings and wire lines, in all about $50,000. There was a tornado about 110 miles to north-northeastward, near Dayton, Ohio, about 4.25 p. m. that day; also one in central Tennessee, about 200 miles to southwestward.

On July 5, about 4 p. m., there was wind damage in and near Owensboro, Daviess County, the storm crossing the Ohio River northward into Spencer County, Ind. Some reports from Indiana indicate that the storm was a tornado.

About 2 a. m., November 19, there was again a severe windstorm in Daviess County and in Spencer County of Indiana. The probability is that the storm advanced northeastward, from Kentucky into Indiana. While some accounts suggest that the storm was a tornado, it seems more probable it was not, so the loss is counted in the table on a later page; likewise with a less detailed report as to wind damage in the most southwestern county of Kentucky, Fulton, at an unnamed hour of the same day.

Louisiana.—There was a severe local storm, probably a tornado, in the northwestern portion on the afternoon of March 11. Gayle, in the southeastern part of Caddo Parish, was struck at 3.30, then for a long interval no damage was reported. In the oil field that is 45 miles northeast of Gayle and a few miles west of Homer, Claiborne Parish, there was great damage. There were 3 killed, and the property loss was $100,000.

On December 19 there was a severe windstorm at Lone Pine, at the northern edge of Evangeline Parish, 1 death and destruction of several buildings resulting. As the information at hand does not indicate this to have been a tornado, the losses are included in the table on a later page.

From 12.10 to 1 a. m. December 24 a tornado moved 25 miles east-northeastward in northeastern Louisiana. It was noted first near the village of Spencer, southeastern part of Union Parish, and the greater part of the village was destroyed. It disappeared near Gallion, east of the center of Morehouse Parish. The track averaged 200 yards wide. The loss of life was 5, and of buildings and timber about $60,000. It is possible this storm should be connected with the tornado in Leflore and Carroll Counties, Miss., a little later, the distance being over 100 miles.

Maryland and Delaware.—No tornadoes reported.

Michigan.—There was at least a severe wind squall in Alpena, about 3.30 p. m., May 22. While one report suggests rotary winds, it seems probable the storm was not a tornado.

On May 27, in Hillsdale County, which borders on both Ohio and Indiana, there was a tornado during the afternoon, which left a path a half mile wide and 5 miles long in the southeastern portion. One person was severly hurt, but none was killed, and the property loss was $30,000.

On July 6 there was probably a small tornado about 6 miles west of Alma, which is in Gratiot County and not far from the center of the lower peninsula. There was considerable damage to buildings on one farm, also a man was hurt and trees and crops were injured.

On the afternoon of August 30 there was a waterspout over part of Lake Huron, about 12 miles north of Port Huron, moving in a southerly direction. Probably there was a small tornado over the land, moving to the water's edge and becoming a spout. There was some damage on the land.

Minnesota.—On the evening of March 26, about the same time that a tornado occurred in Ida and Pocahontas Counties, Iowa, there was one in southwestern Minnesota, about 90 miles northwest of the Iowa storm. The Minnesota track was near Rushmore and Reading, Nobles County, and near Fulda, which is in the southeast part of Murray County; reports indicate the path was 35 miles long and a quarter mile wide; it is probable the direction was between northeast and north-northeast, the storm entering and ending in Murray County. There were 2 killed and the property damage was estimated as $200,000.

On July 16 a tornado from North Dakota, moving southeastward, probably entered the west-central part of Wilkin County, Minn.; but it is believed not to have traveled far or caused much harm in the latter State.

The violent storm of September 20, near Elk River, Sherburne County, a few miles northwest of Minneapolis, is believed not to have been a tornado.

Mississippi.—On March 9, about 2 a. m., a severe local storm, which it is thought was a tornado, started a few miles east of Macon, in Noxubee County, and passed through Prairie Point, and northeastward into Pickens County, Ala. The path in Mississippi was about 14 miles long, and nobody was badly hurt, but there was damage of $10,000. On March 11 there was probably a short tornado at Doddsville, Sunflower County, where 2 were killed, several houses being wrecked.

During the night of April 15–16, shortly after the occurrence of tornadoes in Arkansas, there were apparently three tornadoes in Mississippi. One visited the northern portions of Issaquena and Sharkey Counties, near Grace and Panther Burn, causing some damage, but no loss of life as far as reported. The second, on the other side of the State, probably started in northern Noxubee County, some miles north of the path of March 9 storm, and moved north-northeastward through the eastern part of Lowndes County; it is reported 5 were killed at Steens, beyond which place the storm crossed into Alabama, where it was noted in Lamar County about midnight. The third, considerably to southward, visited the northwestern part of Lawrence County, where there was 1 death at Sontag, and the eastern part of Copiah. On the 16th two tornadoes are reported—one in Kemper, near Rio, the county next south of Noxubee, and the other in the eastern part of Amite, which is one of the most southwestern counties; 1 was killed and 15 were hurt in the former, while 10 were injured in the latter. The paths were probably all rather short, save in case of the storm that struck Steens and went on into Alabama.

On the afternoon of April 26 three counties suffered, and it is believed one tornado was the cause of all the damage. Lincoln is the most southwestern, and Copiah next; in these the losses were not of great consequence. But in the northwestern part of Simpson County, Braxton, a town of 300, was practically wiped out, 15 persons being killed, and 23 badly injured.

On the night of December 23–24 there were fully three tornadoes in the western portions of Mississippi. The tornado in Arkansas and western Tennessee was several hours earlier, but the tornado in northeastern Louisiana, shortly after midnight, is likely the early appearance of the middle one of the Mississippi storms. The most northern storm likely occurred before or about midnight, striking near Jonestown, in eastern Coahoma County, and then near Belen and Marks, in Quitman County. There were 5 killed in each county. This storm seems to have progressed eastward, or slightly to south of eastward. The middle storm moved a little to north of eastward, as with the storms in neighboring States at this time; it may be considered the second appearance of the Louisiana storm, and the time was then probably 3 a. m., about. There were 3 killed in Leflore County, near Rising Sun and Greenwood, then there was damage near Valley Hill and Malmaison, in Carroll County. The southern storm struck a few miles south of Vaughan, in eastern Yazoo County, about 4 a. m., and here 5 lost their lives. The property damage in Mississippi from all these tornadoes is estimated as $75,000.

Missouri.—During the afternoon of April 26 the northern part of Macon County, which is about midway between the Missouri River and the border of Iowa, was visited by a small tornado of short path, which did some damage to buildings.

In the early evening of the 18th of November an intense windstorm caused much damage and 3 deaths near Poplar Bluff, Butler County, in the southeast part of the State. As the tornadic character of the storm can not be established, the losses are included in the table on a later page. It was during this same night that parts of Kentucky and Indiana, not very far distant, were visited by severe winds.

Montana.—No sure tornado reported. On July 12, when damaging hail storms occurred in several parts of Montana and North Dakota, high winds wrecked buildings south of Scobey, in the northeastern part of Montana. About 80 miles to eastward, Howard, N. Dak., reported intense winds that day, using the word "tornado." While it is likely the winds at Scobey and Howard were connected, it is thought there was no tornado, so the losses are reckoned in the table on a later page.

Nebraska.—Six storms during the year are thought to have been tornadoes; they all left but short paths and were comparatively unimportant. On April 7 there was probably a tornado at Aurora, Hamilton County. On April 21 there was a tornado starting west of Douglas, Otoe County, and some live stock were reported killed. Three days later Adams and near-by counties reported severe winds, some reporters using the word "tornado," but there apparently was no tornado in this instance.

On May 19 there were high winds in many parts of the State, but it is believed only three tornadoes occurred. One formed about 14 miles north of Valentine, in northeastern Cherry County, and is thought to have crossed the State line a short distance into South Dakota. The second was about 80 miles to eastward, in Boyd County, while the third was in the southwestern part of Clay County.

On June 30, between 3 and 4 p. m., there was a tornado in the northeastern part of Gage County, comparatively near the track of the Otoe County tornado of April 21.

The first and second tornadoes of May 19 occurred in the north-central part of the State; all others in the southeastern part. The Clay County storm of May 19 traveled northward; while the April 7 tornado probably, and surely all the others, moved northeastward. No person was killed and the damage, save on April 21, seems to have been confined to buildings, wire lines, and trees.

Nevada.—No tornadoes reported.

New England.—No sure tornado reported. On May 22 severe winds occurred in several parts of New England, particularly in Maine, and at Waterville, Me., much damage occurred in part of the city, suggesting the work of a tornado; but information clearly indicating such character of the storm was not secured, so the damage is counted in the table on a later page.

New Jersey.—On March 28, just after 4 p. m., as the long period of warm weather was coming to an abrupt end, a small tornado occurred in north-central New Jersey, probably starting near Whitehouse, in the eastern part of Hunterdon County. It moved east-southeastward to the vicinity of Somerville, Somerset County, then turned eastward, passing through the northern part of the town, and it continued apparently about 7 miles farther, making about 17 miles in all. A few persons were hurt, some chickens were killed, many buildings were wrecked, and many fruit and shade trees ruined.

New Mexico.—On May 29 a tornado occurred near Trementina, eastern San Miguel County, which is in the northeastern quarter of the State. It moved northeastward about 3 miles, with path 100 yards wide; no house was in the way, but every tree it struck was uprooted.

New York.—No tornadoes reported.

North Carolina.—In the east-central part of the State, northwestern portion of Wake County, a tornado occurred about 6 p. m., March 12. It was noted east of Morrisville, and moved northeastward about 6 miles, with path 100 to 500 feet wide. There was no loss of life, while property damage, to timber and buildings, was about $10,000.

On May 13 a tornado with one of the longest paths of the year was reported. It was almost certainly the storm noted at Galivants Ferry, S. C., and crossed the State line into southern Robeson County about 20 miles from Galivants Ferry. It was timed a few miles south of Lumberton at 2 p. m., and the direction over the early part of the path was north-northeastward; but from Robeson County across Bladen and Cumberland into Sampson it was more to northeast; then again to north-northeast across Wayne into Wilson County, where it ended about 6 p. m. In North Carolina it had covered about 110 miles, at the speed of about 25 miles an hour. The path was from 100 yards to one-half mile wide. Three persons were killed in North Carolina and 15 were reported injured. The property loss from the storm is estimated as $50,000.

North Dakota.—On June 18, about 2.30 p. m. occurred a short and relatively unimportant tornado in the southeastern part of Dickey County, about 17 miles east-southeast of Ellendale. This seems to have originated about a mile south of the South Dakota State line, and to have traveled in all about 6 miles northward, or toward the end north-northwestward, the end of its path being about a mile southwest of Guelph. The path of damage was about one-half mile wide, and several buildings were demolished, and trees were ruined or injured by uprooting, breaking off, or twisting. The total loss is estimated as $20,000.

On July 2 a thunderstorm or group of thunderstorms did great damage in Dickey County and parts of counties adjoining in southeastern North Dakota, also in South Dakota near by. While the damage was vastly greater than the aggregate by the tornadoes of June 18 and July 16, yet there is believed to have been no tornado in either State on July 2.

On July 12 vast damage resulted in eastern Montana and western North Dakota from hail, accompanied in places by severe winds. The cooperative observer at Howard, Williams County, N. Dak., reported "tornado and hail"; but in the absence of further information to confirm the former, it is believed there was not a tornado.

On July 16, about 7.30 p. m., there was a tornado in the eastern part of Richland County, the most southeastern of the State. It was noted west of Galchutt, and traveled southeastward to near Wahpeton, 12 miles or more, and is reported to have crossed the Red River into Minnesota. The path was about a mile wide. Near Galchutt a house was wrecked and 7 persons were hurt, the injuries proving fatal to 1. Horses were killed, crops badly damaged, and freight cars and buildings wrecked, the financial loss being estimated as $50,000.

Ohio.—About 4.25 p. m., March 24, a tornado occurred several miles north of Dayton, in northern Montgomery and southern Miami Counties. This same afternoon there were tornadoes in central Tennessee, about 300 miles to southwestward, and in Scott County, Ky., about 110 miles to south-southwest, while about midway between Scott County and the region visited in Ohio there were severe winds. Damage occurred especially at Englewood, but some at Vandalia, Ginghamsburg, and Tippecanoe City, indicating a path about 10 miles long. The movement of the storm was northeastward. No person was killed, but damage, mainly to buildings and orchards, was estimated as $150,000.

On July 5, late in the afternoon, a thunderstorm front was advancing southward or southwestward over Hamilton County, and at Glendale, about 10 miles north of Cincinnati, violent winds occurred, with probably a small tornado. No fatalities were reported, but there was damage of about $75,000.

On September 21, a few minutes after noon, a severe windstorm, probably a tornado, occurred in Muskingum County, at Zanesville and Philo. No deaths or injuries were reported, but the property loss is put at $200,000.

Oklahoma.—On April 14, the day before several tornadoes occurred in Texas and Arkansas, a small tornado occurred about 10 p. m., several miles northwest of Carnegie, Caddo County, which is in the southwestern part of Oklahoma. The path is reported as 2 miles wide and four times as long. No person was even hurt, but damage to buildings, crops, and live stock aggregated $75,000.

On April 21, about 8 p. m., there was a much greater amount of wind damage than on the 14th, the place being Durant, Bryan County, and vicinity. The characteristics of a tornado

were not reported, so the damage is included in the table on a later page. Some press accounts styled this storm a tornado, and it is notable that about 100 miles directly southward, at Kaufman, Tex., there was a tornado about 6.20 p. m. that day. On the evening of May 26 there was a sharp temperature fall at Oklahoma City, with high winds and a little hail; a press report stated a tornado occurred at Edmond, 14 miles north, but it is believed there were merely severe winds.

Oregon.—No tornadoes reported.

Pennsylvania.—No tornadoes reported.

South Carolina.—On the afternoon of May 13 there was a tornado near Galivants Ferry, in the western part of Horry County, the most eastern county in the State. This was almost certainly an early appearance of the long-path tornado of that date in North Carolina, and considering the nearest point it is recorded as visiting in North Carolina, a movement to north-northeast would be expected; however, the report from Galivants Ferry gives the motion as toward the southeast. The greatest width of destruction was about 400 yards, and the damage was estimated as $5,000. One death resulted.

On August 10, about 10:45 a. m., a small tornado occurred near Ashley Junction, in Charleston County, 7 miles north-northwest of the city of Charleston. The path was decidedly narrow, but a little over half a mile long, the storm traveling northward. The damage, chiefly to buildings, was about $1,200, and no person was injured.

South Dakota.—On May 18 a small tornado was observed near Alexandria, Hanson County, in the southeastern part of the State, about 7 p. m. Probably this remained in the air, for no damage was reported. The direction of motion was not learned. The day following two small tornadoes formed in the northern part of Nebraska, and it is thought one of them moved a short distance into South Dakota; this formed in the northeastern part of Cherry County, and moved northeastward; north of the State line the storm would have been in southeastern Todd County or southwestern Tripp, probably the former. No report was received from South Dakota, but the vicinity is sparsely settled, and little damage would be possible.

On June 18, about 2:30 p. m., a tornado occurred in Dickey County, N. Dak., moving a short distance northward. Careful study of its path showed that it formed about a mile south of the State line, in northeastern Brown County, S. Dak., but the damage in South Dakota was trifling.

On July 2 a large area in Brown, Spink, and adjacent counties was swept by a thunderstorm or group of thunderstorms, with great damage by wind. It is believed there was no true tornado, in spite of some press reports to such effect. The damage in North Dakota, after the storm crossed the State line northeastward, was greater than in South Dakota, according to reports. (See table on a following page.)

There were violent winds in the southeastern part of the State on September 9, and in Minnehaha County, near Sioux Falls, the information secured suggests to some extent a tornado, about 7 p. m., moving to eastward or southeastward for fully 10 miles. There were 2 killed, and much damage resulted. For lack of reports showing whirling motion the deaths and damage are reckoned in the table of damaging winds not tornadoes on a following page.

Tennessee.—There was a small tornado in Carroll County, in western Tennessee, on February 16, about 3:30 p. m. It passed about a mile east of Trezevant, and did damage of $150 on a single farm.

On the afternoon of March 24 there were tornadoes in southwestern Ohio, north-central Kentucky, and central Tennessee, but the Ohio and Tennessee storms were simultaneous. The latter formed in the eastern part of Maury County, crossed northern Marshall and the northwestern corner of Bedford, and ended in the southern part of Rutherford, having moved 40 miles northeastward. Its speed was about 40 miles per hour, and its path was narrow. Near Murfreesboro there were seen two distinct tornadoes instead of one, the paths being 500 yards apart. Four persons were killed at Rich Creek, Marshall County, and there was damage amounting to $50,000, the greater part being in the same county.

On April 16, the day after severe tornadoes occurred in Texas and Arkansas, there were tornadoes or violent storms in Mississippi, Alabama, and Tennessee. The paths in these States,

at least during the early morning hours, lay to north of northeastward, or about in that direction. Three tornadoes occurred in south-central Tennessee, between 3 and 6 a. m. The most northwestern covered a rather short path in northern Giles County and western Marshall; 1 death and about $35,000 damage resulted. The middle one of the three was much the most important of the day in the State, and must probably be considered the storm that originated in east-central Mississippi and crossed northwestern Alabama; the path comes quite well into line, though there is no report as to this storm from Giles County, Tenn., which the storm presumably crossed from near the southwest corner, at the Alabama line, to near the northeast corner. Reports place it in southern Marshall County about 4 a. m., and it traveled across Bedford and southeastern Rutherford, about 50 miles, in about an hour. One death resulted, and there was approximately $50,000 property loss. This storm was about 12 miles to southeastward of the first, and about 18 miles farther to southeastward there was a tornado near Coldwater, Lincoln County, which resulted in several injuries and considerable property damage, but apparently the path was very short.

There was a fourth tornado that day in Tennessee, but it occurred some time later, namely, about 9 a. m., and about 200 miles to eastward, in one of the counties of the North Carolina border, Cocke. The storm struck Newport, but fortunately with only very narrow path of damage, and was quite short. No injuries were reported, and the loss was about $6,000. The movement of the storm was eastward.

In the south-central part of the State, where four tornadoes had already occurred this year, another came on May 10, moving eastward across northern Marshall County into northwestern Bedford, from about Caney Spring to Unionville, approximately 10 miles. Several persons were injured, and the damage was estimated at $50,000.

On the afternoon of December 23, about 5:15, the tornado that struck Clarkedale, Ark., after traversing about 30 miles from the Mississippi River levee without doing harm, came to Phelan, Tipton County, Tenn., and wrecked some buildings, injuring 2 persons. About 15 miles farther on, there was wind damage, without sure evidence of rotary winds, at Brownsville, Haywood County. Reckoning Brownsville as the end of its path, the storm had covered about 60 miles, in an east-northeast direction, at a speed of 30 to 35 miles per hour. The path of destruction was about 500 feet wide, and the property loss in Tennessee was $20,000.

Texas.—On February 6 there were apparently two small tornadoes pursuing parallel paths to northeastward, nearly 30 miles apart, in the northeastern portion. The northwestern passed near Winfield, about on the border between Franklin and Titus Counties; the other went near Gilmer, Upshur County, and Hughes Springs, Cass County, the latter over 20 miles northeast of Gilmer. There was damage to buildings at all three places, and a few persons were hurt near Gilmer.

During April tornadoes were frequent in Texas, but the four, or perhaps three, of the first 10 days were without loss of life. On the 5th, about 5:30 a. m., one occurred at Wharton, Wharton County, in the southeastern part of the State. There was damage of $20,000, and 2 persons were injured. The ensuing night, at 11:20, a severe windstorm struck Clarendon, Donley County, in the Panhandle of Texas, very remote from Wharton and Beyersville. There was damage of $50,000, and it is believed the storm was a tornado. On the morning of the 6th, in the central part of the State, about 110 miles northwest of Wharton, a tornado moved from near Elgin, Bastrop County, through Beyersville, Williamson County, to near Thorndale, Milam County, in all about 20 miles north-northeastward; there was loss of $20,000, and 4 were hurt. About 7:30 p. m. of the 9th a small tornado struck La Porte, Harris County, between Galveston and Houston; damage was $35,000, and 3 persons were injured.

About 2:40 p. m., April 13, a tornado with path one-fourth mile wide well-nigh destroyed the town of Melissa, Collin County, in northeastern Texas, causing damage of $500,000, and several fatalities. This formed 6 miles southwest of Melissa, and probably it is the storm that demolished a house near Petty, Lamar County, fully 50 miles from Melissa, as the tornado when near Melissa was headed about toward Petty; however, no damage was reported from any point in Fannin County between. There were 11 killed at Melissa and another at Petty.

On the afternoon of April 15 a severe tornado, probably the most disastrous in the whole country during 1921, struck Avinger, Cass County, and passed near Texarkana, Bowie County, then on far into Arkansas. In view of places west and southwest of Avinger reporting damage, and times of the storms at those places, it seems probable that the tornado at Mineola, Wood County, 12:45 p. m., was a distinct storm, probably of short path, which did rather little damage and caused no deaths. From Mineola, Avinger lies 55 miles east-northeast. The earliest report of the more important storm is from Smith County. In the next county, Gregg, it is reported as passing Gladewater 1:40 p. m. Avinger is 35 miles northeastward, and was reached at 2:50 p. m. Later the storm struck Linden, then crossed the southeast corner of Bowie County into Arkansas. The direction in Texas was slightly north of northeast, and the path was over one-fourth mile wide at Avinger. There were 8 killed or fatally injured at Avinger and 2 others in Bowie County. The damage in Texas, chiefly at Avinger and Linden, exceeded $75,000.

On the 21st of April, about 4:15 p. m., a small tornado, with path 100 yards wide, did about $5,000 damage at Lott, Falls County, in central Texas. Fully 100 miles to north-northeast, about 6:20 p. m. that day, Kaufman, Kaufman County, was visited by what is considered a separate tornado, with path only 100 feet wide, doing but $750 damage. It is notable that about 8 p. m. that day, Durant, in southern Oklahoma, not quite 100 miles north of Kaufman, had a severe windstorm, doing $190,000 damage, but without the characteristics of a tornado, as far as noted. No person was even injured at any one of the places named, and no damage between them was reported.

On June 7, about 9:30 p. m., there was probably a small tornado in northern Taylor County, about 7 miles northwest of Abilene, in the northwestern part of the State. This traveled a mile northeastward, with path 100 to 150 yards wide. Some buildings were destroyed and chickens killed, with total damage about $1,500, but no person was hurt. On June 23 there was much damage in connection with the northward movement of the tropical hurricane; a report from Cass County suggests the possibility of a tornado there, the night of the 23d, but the damage is thought to have been the work of winds forming part of the general circulation about the storm center, which was then nearly 200 miles to northward.

On September 9, within a few hours of the beginning of the extremely heavy rains in southern and central Texas, several points report very violent winds, doing great damage in narrow tracks. A press report, dated the 12th, describes such a storm or squall at Pandora, in the easternmost part of Wilson County, the devastated strip being 60 feet wide and 3 miles long. The hour and even the day were not stated, but it probably happened the 9th, the downpour and floods delaying the spread of news. About 55 miles to the north of Pandora, Creedmoor, in southern Travis County, was struck early in the afternoon, and the southern part of Austin, 12 miles north of Creedmoor, between 2 and 3 p. m., on the 9th.

The Pandora, Creedmoor, and Austin reports probably relate to a single tornado, moving northward. During the following night several places to eastward of this track were struck. Hutto and Weir, 8 miles apart, in Williamson County, the former about 20 miles northeast of Austin, were visited about midnight by a tornado, which, like the storm of the afternoon before, was moving northward. Cuero, De Witt County, about 30 miles east-southeast of Pandora, was struck by what was probably a distinct tornado, and Milano, Milam County, over 40 miles east-northeast of Hutto, by what was probably another. These violent winds, owing largely to their narrow tracks, caused no deaths; but they did much damage, Travis County alone reporting $30,000, while a number of people were hurt.

There was a tornado on November 18, the day after several Arkansas counties were visited by such storms. The Texas tornado was in Harrison County, in the northeastern part of the State, a few miles northeast of Marshall, and some property loss resulted.

Utah.—No tornadoes reported.

Virginia.—In the northwestern part of the State, at Mint Spring and Barterbrook, Augusta County, a small tornado occurred on September 22. The path was about 100 yards wide and 5 miles long. Two persons were hurt, and damage to buildings and trees was about $5,000.

Washington.—No tornadoes reported.

West Virginia.—No tornadoes reported.

Wisconsin.—On April 25, about 2 p. m., a narrow track in Iowa was devastated, ending in part of the city of Dubuque; it is thought there was a tornado. There was wind damage at the time in Grant County, Wis., the southernmost part of which is just across the river from Dubuque, but evidence of a tornado on the Wisconsin side of the river is lacking.

On June 20 Outagamie County and the southern part of Shawano, in the east-central part of the State, were visited by a violent storm, probably a tornado, with much damage to buildings and crops. Apparently the storm moved to north-northeast. The property loss was about $60,000.

On August 19, about 4.15 p. m., while a severe windstorm was prevailing over a considerable area in the vicinity, several persons near Madison, Dane County, in the southern part of the State, saw a funnel-shaped cloud. There was no other evidence of a tornado, and most of the damage occurring thereabouts at the time was surely the work of the "straight-line" winds. There was widespread wind damage that day in the southern part of Wisconsin, seven different counties each reporting as much as $10,000 damage, Green County, which adjoins Dane on the south, having no less than $300,000 loss. These amounts appear in the table on a following page.

Wyoming.—There was apparently a small tornado a few miles east of Laramie, Albany County, in southeastern Wyoming, about 11.30 a. m., May 25. It moved at first southward, then later southeastward, but slowly, the path being about a mile long. The vicinity was all open country and the damage was insignificant.

HAIL, 1921.

Charts 6 and 7 show the occurrence of hail during the warm season (April to September) of 1921, as indicated chiefly by the records of the regular and cooperative stations of the bureau. In preparing these charts effort has been made to show two degrees of intensity—moderately heavy hail, resulting in only slight damage, and heavy or destructive hail. Hail too light to cause damage fell at thousands of stations, and it is considered needless to chart such falls. Hailstorms are often extremely local in character, and in their occurrence from year to year show much irregularity; so the distribution indicated on the accompanying charts should not be construed as the usual condition.

It is thought that during 1921 the country as a whole suffered less from severe hailstorms than usual, especially the middle and lower Mississippi, the lower Missouri, and the lower Ohio Valleys.

In certain cases destructive hailstorms have been fully reported over paths of sufficient length to call for the entering of lines, rather than dots, on Chart 7. Thus, on May 23 three important hailstorms occurred in Maryland, traveling toward the south or the south-southeast. The middle storm was the earliest in point of time, crossing Washington County about 3 p. m., affecting the eastern edge of Jefferson County, W. Va., and doing marked damage in Loudoun County, Va. About an hour later the eastern storm traversed the Eastern Shore counties, from northwestern Kent to southeastern Caroline. The western storm caused much damage in Somerset County, Pa., and about 6 p. m. entered Garrett County, Md., and continued to near the Potomac River. The aggregate damage from the three storms was about $200,000.

On the night of June 2-3 there was an intense hailstorm in southwestern Kansas, moving southeastward in the vicinity of the Arkansas River. On June 23 severe hailstorms occurred near Walla Walla, Wash., and Lewiston, Idaho, but the information secured does not link these into one long storm, so dots have been charted. There was a destructive hailstorm on July 31, traversing Westchester County, N. Y., and then crossing Long Island. On September 9 southwestern Iowa was visited by a severe storm, but apparently not so long as most of those just mentioned. It is probable that with fuller information some of the series of dots now shown would be connected into lines.

Charts 6 and 7 cover only hail of six months, April to September, inclusive. In 1921 the season was so early that in a few localities crops suffered from hail during March, as in Tulsa County, Okla., on March 27. Also one of the most notable hailstorms of the year crossed the central portion of Alabama in a southeastward direction during the afternoon and early evening of November 14; poultry and other livestock were killed, persons were hurt, and buildings were damaged, but it was so late that crops were practically unaffected.

LOSSES FROM WINDSTORMS, 1921.

Statistics have again been collected, chiefly through the field-service officials of the bureau, as to damage to property and loss of life resulting from windstorms, other than tornadoes, and the results appear in the table that follows. The amounts of damage are estimates only, and even rough estimates are frequently not available, so symbols are entered instead, but in most such instances the losses 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 hailstorms, most of the individual storms have been mentioned in the chronological lists appearing in the issues of the Monthly Weather Review.

There was scarcely any loss from wind during January, save that due to the storm affecting Washington and northern Oregon, particularly the coast region, on January 29. For most of the region this was the severest wind on record. In spite of very sparse settlement, there was considerable harm to buildings and wire lines; but the greatest destruction was among the immense forests, where standing timber estimated to amount to 6,000,000,000 board-feet was destroyed beyond recovery. It is not found practicable to put a monetary estimate on this loss, for much of the timber was decidedly inaccessible.

The losses during February were slight, and during March not as great as they average during that month, in the long run. April brought much damage in Alabama, outside the tornado-swept strips, on the 16th; also much in and near Durant, Okla., on the 21st, and considerable in Wisconsin on the 25th. During May the oil fields near Port Arthur, Tex., suffered considerably on the 9th, and those in Marion County, Kans., on the 26th.

On June 22 one of the earliest tropical hurricanes for many years reached the Texas coast. The barometric pressure at the center was not so low as it often is in such storms, and the progress of the storm was rather rapid; therefore, the Gulf waters were not piled up onto the coast to a marked extent, and most of the damage occurred inland. It is thought that not one fatality near or inside the coast-line may be directly put down to wind or wave damage.

A broad strip in the Dakotas saw much wind damage on July 2, and on the 19th of August there was much loss in southern Wisconsin. During each of the summer months there were violent local thunderstorm gusts in nearly every Central and Eastern State.

October brought a rather severe hurricane, which crossed the Florida peninsula, causing 7 deaths and great losses of property. On December 18 high winds prevailed in New York and adjoining States, the losses being greatest in and near Buffalo.

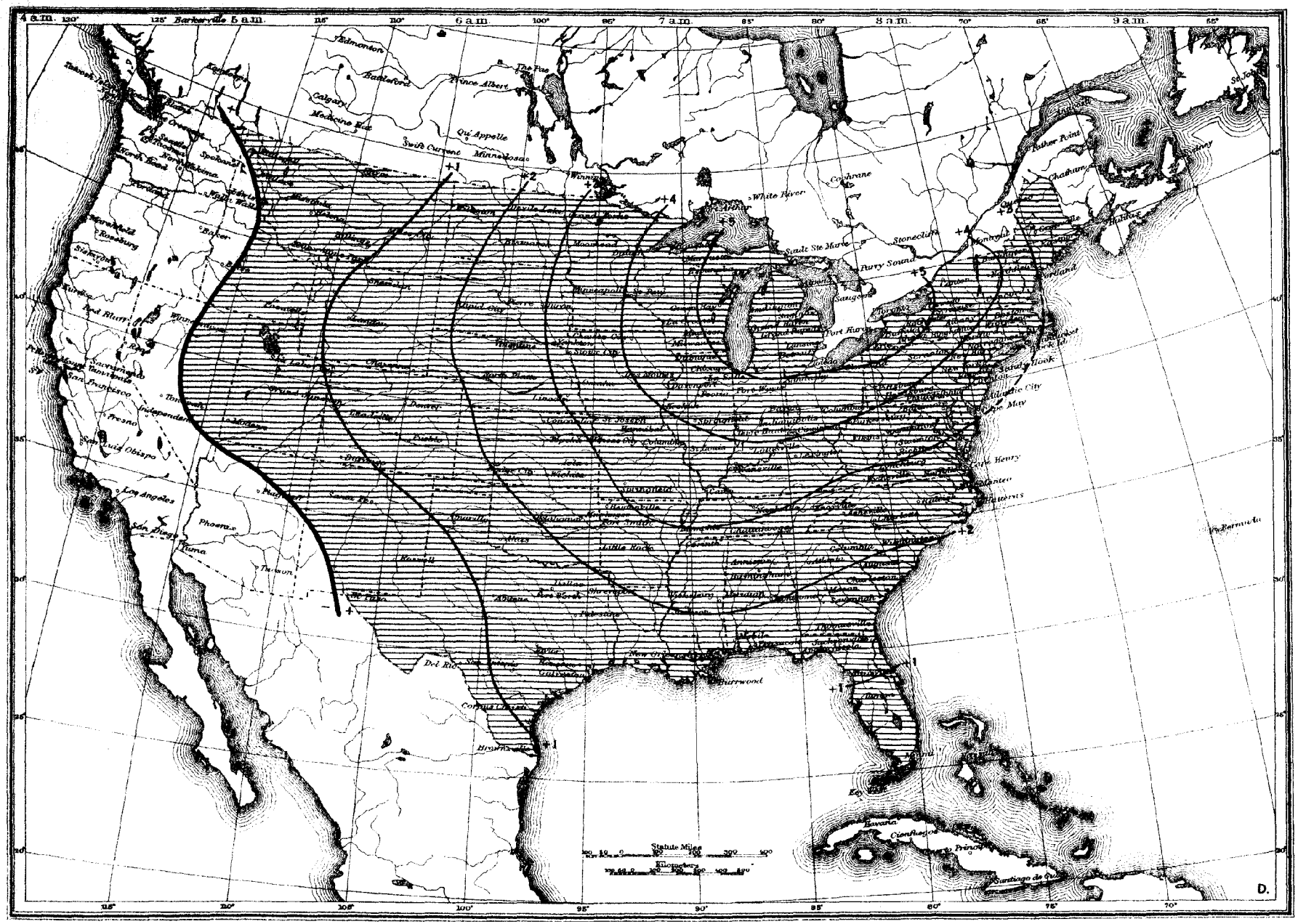
Aside from the hurricane in Florida, the chief losses of life attributed to winds not tornadoes were 11, on October 31, when two fishing boats near the New Jersey coast were capsized, and 7 at Barnesboro, Pa., on June 23, when a theater was blown down.

Losses from windstorms, other than tornadoes, by months and sections, 1921.

[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		10,000	500	[1] 150,000		[1] 3,400	500	(2)			(2)		[1] 164,400	
Arizona								(2)					(2)	1
Arkansas		(2)		(2)				20,000				(2)	[1] 20,000	
California					(2)			(2)				[1] 100,000	[1] 100,000	2
Colorado	(2)	(2)			(2)					(2)	100		[1] 100	
Florida					7,000		350			4,000,000			4,007,350	10
Georgia				[1] 1,000	(2)	25,000			(2)	(2)			[1] 26,000	1
Idaho														
Illinois				(2)	[1] 1,000		[1] 7,200	[1] 3,000	[1] 35,000			(2)	[1] 46,200	3
Indiana	(2)			(2)		[1] 500	[1] 1,000	(2)	12,000		80,000	(2)	[1] 93,500	
Iowa		[1] 10,000	(2)	(2)	(2)	(2)		(2)	(2)				[1] 10,000	
Kansas			[1] 3,000	(2)	[1] 250,000		[1] 3,000	[1] 400					[1] 256,400	
Kentucky			(2)	[1] 20,000			(2)	[1] 75,000	(2)		(2)	30,000	[1] 125,000	1
Louisiana			(2)	(2)							(2)	(2)	(2)	1
Maryland and Delaware	15,000				(2)	(2)	(2)	(2)	(2)				[1] 15,000	
Michigan	(2)		(2)	(2)	[1] 4,000	(2)	(2)	(2)	(2)			(2)	[1] 4,000	1
Minnesota							(2)	(2)	(2)				(2)	
Mississippi			(2)	(2)			(2)					(2)	(2)	
Missouri			(2)	(2)	(2)	[1] 2,500	(2)	(2)			(2)		[1] 2,500	3
Montana	(2)				(2)		(2)		(2)			(2)	(2)	
Nebraska			(2)	(2)	(2)		(2)	(2)	(2)			(2)	(2)	1
Nevada	(2)	(2)										(2)	(2)	
New England					(2)		(2)		(2)				(2)	1
New Jersey			(2)			(2)	[1] 35,000		(2)	(2)		(2)	[1] 35,000	11
New Mexico				(2)									(2)	
New York			(2)		(2)	(2)	(2)		(2)	(2)		[1] 2,200,000	[1] 2,200,000	5
North Carolina	(2)				(2)	(2)	(2)						(2)	
North Dakota						(2)	[1] 600,000	(2)	(2)				[1] 600,000	
Ohio			(2)	(2)		(2)	(2)	(2)	(2)		(2)		(2)	1
Oklahoma				190,000	(2)			(2)					[1] 190,000	
Oregon	(2)											(2)	(2)	
Pennsylvania			(2)			(2)	(2)		(2)			(2)	(2)	8
South Carolina				[1] 2,000								(2)	[1] 2,000	
South Dakota					(2)		[1] 200,000	(2)	(2)				[1] 200,000	3
Tennessee				(2)	(2)	(2)	[1] 6,000				(2)		[1] 6,000	1
Texas			(2)	(2)	[1] 140,000	[1] 4,000,000	(2)	(2)	(2)			(2)	[1] 4,140,000	2
Utah						(2)	(2)					(2)	(2)	
Virginia					(2)	[1] 5,000	(2)	1,000		(2)			[1] 6,000	2
Washington	(2)					(2)			(2)				(2)	2
West Virginia									11,000				11,000	1
Wisconsin	20,000			130,500	200		17,000	620,000	125,000			(2)	[1] 912,700	3
Wyoming	[1] 1,500	(2)		(2)			(2)			(2)		(2)	[1] 1,500	

[1] Indicates additional losses, but no estimate of amount obtainable.
[2] Indicates losses reported, but no estimate of amount obtainable.



DEPARTURE FROM NORMAL TEMPERATURE, IN DEGREES FAHRENHEIT, FOR THE CROP SEASON OF 1921, 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 PRECIPITTIONA, INCHES, FOR THE CROP SEASON OF 1921, MARCH 1 TO SEPTEMBER 30.

15511—23. (Face p. 52.) No. 2

DEPARTURE FROM NORMAL PRECIPITATION FOR THE CROP SEASON OF 1921, 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 1921.

OCCURRENCE OF TORNADOES DURING THE YEAR 1921.

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 1921, 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 1921, 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.

Annual summary, climatological data, Canadian stations, 1921.

[Data furnished by the Canadian Meteorological Service.]

Stations.	Pressure in inches.			Temperature.						Precipitation.		
	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.
Sydney, Cape Breton Island	29.94	29.99	+0.05	42.6	+1.3	51.1	34.1	91	−15	46.53	−3.75	142.5
Halifax, Nova Scotia	29.89	30.00	+0.03	44.2	+1.4	53.0	35.5	84	−6	43.66	−13.37	88.1
Yarmouth, Nova Scotia	29.92	29.99	+0.01	44.7	+1.5	51.8	37.6	82	2	33.86	−16.47	61.0
Charlottetown, Prince Edward Island	29.92	29.96	+0.02	42.4	+1.4	50.0	34.8	88	−10	35.97	−5.65	109.4
Chatham, New Brunswick	29.96	29.99	+0.05	41.4	+2.7	51.7	31.2	95	−20	35.22	−6.07	111.3
Father Point, Quebec	29.94	29.96	+0.03	35.8	+1.0	44.0	27.5	84	−19	31.22	−1.77	75.4
Quebec, Quebec	29.68	30.01	+0.03	41.2	+3.0	49.5	32.9	96	−18	37.58	−4.14	77.9
Montreal, Quebec	29.79	30.00	+0.01	45.3	+3.8	53.4	37.2	95	−14	31.00	−9.99	64.5
Ottawa, Ontario	29.75	30.02	+0.02	45.1	+4.5	55.4	34.8	98	−23	35.61	+3.01	76.2
Kingston, Ontario	29.70	30.01	0.00	48.1	+5.0	55.8	40.4	89	−14	24.86	−7.95	32.6
Toronto, Ontario	29.61	30.02	0.00	50.1	+5.9	59.0	41.2	98	−5	27.32	−6.40	34.5
Port Stanley, Ontario	.....	.....	.....	48.3	+3.6	56.5	40.1	89	2	32.63	−1.79	51.8
Southampton, Ontario	29.28	.....	.....	47.3	+4.9	55.4	39.3	91	0	35.83	+1.62	51.3
Parry Sound, Ontario	29.30	30.00	0.00	45.6	+5.4	56.2	35.1	100	−28	39.48	+1.21	83.7
Cochrane, Ontario	.....	.....	.....	36.4	.....	46.9	25.8	98	−31	28.96	.....	65.9
White River, Ontario	28.63	29.97	−0.01	35.0	+2.9	48.4	21.7	96	−45	24.71	−0.08	71.8
Port Arthur, Ontario	29.28	29.94	−0.06	39.9	+5.5	49.0	30.8	92	−22	22.83	−1.93	44.1
Winnipeg, Manitoba	29.13	29.97	−0.03	38.3	+5.2	48.2	28.4	94	−33	22.03	+1.05	62.0
Minnedosa, Manitoba	28.13	29.98	−0.02	36.2	+4.6	46.5	26.0	91	−34	19.36	+2.91	41.5
Port Nelson, Manitoba	.....	.....	.....	21.6	.....	30.4	12.7	88	−45	16.66	.....	72.5
Qu'Appelle, Saskatchewan	27.66	29.94	−0.04	37.6	+4.3	48.2	27.1	94	−35	27.19	+11.11	66.4
Moose Jaw, Saskatchewan	.....	.....	.....	40.8	.....	52.9	28.8	100	−25	20.81	.....	32.9
Swift Current, Saskatchewan	27.37	30.02	+0.05	40.9	+3.4	52.8	29.1	99	−24	13.43	−2.04	31.2
Medicine Hat, Alberta	27.59	29.87	−0.09	44.4	+4.1	56.6	32.3	101	−22	12.93	−0.87	52.1
Calgary, Alberta	26.36	29.97	+0.04	39.7	+2.5	53.8	25.6	95	−31	13.48	−1.39	68.6
Banff, Alberta	25.31	29.91	−0.02	36.1	+1.4	47.1	25.0	86	−40	18.28	−3.63	99.1
Prince Albert, Saskatchewan	28.37	29.97	−0.01	35.1	+4.6	45.8	24.3	86	−36	25.09	−10.18	106.9
Battleford, Saskatchewan	28.18	29.95	−0.02	36.7	+4.0	47.9	25.4	94	−35	19.48	+5.55	56.8
Edmonton, Alberta	27.59	29.90	−0.03	37.1	+1.5	48.9	25.3	87	−37	15.22	−0.61	49.8
Kamloops, British Columbia	28.74	30.04	+0.11	46.7	−0.4	56.6	36.8	96	−14	7.19	−4.44	27.9
Victoria, British Columbia	29.77	30.03	+0.03	48.6	0.0	54.3	42.9	76	16	35.10	−3.04	8.8
Barkerville, British Columbia	25.58	29.92	+0.02	34.0	−2.2	43.7	24.3	74	−27	40.57	+7.01	204.6
Prince Rupert, British Columbia	.....	.....	.....	44.3	.....	49.6	38.9	76	14	86.30	.....	52.8
Atlin, British Columbia	.....	.....	.....	30.9	.....	38.9	22.8	72	−35	9.74	.....	40.4
Dawson, Yukon	.....	.....	.....	21.7	.....	32.3	11.1	88	−53	9.83	.....	51.4
Prospect Point, Bermuda	29.98	30.14	+0.05	70.4	+0.7	76.0	64.8	90	46	54.45	−7.46	0.0

LIST OF OBSERVING STATIONS.

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

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

Changes in the elevations of other instruments during 1921 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, 1921);

T = continuous records of temperature (on December 31, 1921);

W = continuous records of wind (direction and velocity) (on December 31, 1921);

V = continuous records of wind (velocity only) (on December 31, 1921);

R = continuous records of rainfall (on December 31, 1921);

S = continuous records of sunshine (on December 31, 1921).

Summary of stations in operation during the year.

Taking two observations daily (all elements)	175
Taking one observation daily (all elements)	25
Taking two observations daily (temperature, rain, wind, and weather)	39
Taking one observation daily (temperature, rain, wind, and weather)	31
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)	91
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)	470
Taking one observation daily (rainfall)	276
Taking one observation daily (sugar and rice and river)	3
Taking one observation daily (corn and wheat)	131
Taking one observation daily (corn and wheat and river)	17
Taking one observation daily (corn and wheat and rainfall)	35
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	121
Snowfall and evaporation	2
Vessel	145
Storm warning	149
Total paid stations	1,885
Cooperative stations (about)	[1] 4,500
Grand total	6,385

[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, 1921. Barometer above sea.	Thermometer above ground.	Rain gage above ground.	Anemometer above ground.	Observations began.	Dates of changes in elevation during 1921.
	°	′	°	′	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	
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	48 172	Dec. 10, 1873	Dec. 17, 1921
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, V	26	00	97	26	1	30 S.	57	4	3	26	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.	356	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	69 11	61 63	77 73	Feb. 1, 1887	Jan. 1, 1921
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.	5,291	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, 1921. Barometer above sea.	Thermometer above ground.	Rain gage above ground.	Anemometer above ground.	Observations began.	Dates of change in elevation during 1921.
	°	′	°	′	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.	330	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	37 4	50	Dec. 1, 1880	Apr. 5, 192
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	99	119	Sept. 1, 1904	
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	4	100	Oct. 1, 1899	
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	49	Jan. 5, 1917	
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	103	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 V	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	
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	

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, 1921. Barometer above sea.	Thermometer above ground.	Rain gage above ground.	Anemometer above ground.	Observations began.	Dates of changes in elevation during 1921.
	°	′	°	′	h.	m.	Feet.	Feet.	Feet.	Feet.		
Oklahoma, 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.	638	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.	117	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 Light, PWRS	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.	3,234	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	
Santa Fe, P T W R S	35	41	105	57	2	04 S.	7,013	57	49	66	Nov. 20, 1871	
Sault St. 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	Mar. 13, 1890	
Tatoosh Island, P T W R S	48	23	124	44	3	19 S.	86	7	4	57	Nov. 22, 1902	
Taylor, P T W R S	30	35	97	20	1	29 S.	583	55	48	63	Nov. 13, 1901	
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	
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	

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, 1921. Barometer above sea.	Thermometer above ground.	Rain gage above ground.	Anemometer above ground.	Observations began.	Dates of changes in elevation during 1921.
	°	′	°	′	h.	m.	Feet.	Feet.	Feet.	Feet.		
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.	1,000	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	38	.....	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	3 6	56	July 1, 1877	Oct. 3, 1921
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, 1921. Barometer above sea.	Thermometer above ground.	Rain gage above ground.	Anemometer above ground.	Observations began.	Dates of changes in elevation during 1921.
	° ′	° ′	h. m.	Feet.	Feet.	Feet.	Feet.		
Turks Island.[1]									
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 1921.*

ESTABLISHED.

Stations.	Date established.
CORN AND WHEAT.	
Grand Meadow, Minn	July 1
Warsaw, Mo	Do.
CORN AND WHEAT AND FRUIT.	
Hutchinson, Kans	Nov. 3
COTTON.	
Jackson, Tenn	June 23
COTTON AND RIVER.	
Jackson, Miss	Feb. 1
CRANBERRY MARSH.	
Phillips, Wis	July 1
FRUIT.	
Allapattah, Fla	Nov. 25
Arkansas City, Kans	Nov. 4
Avon Park, Fla	Nov. 25
Bluff Springs, Fla	Nov. 5
Calexico, Calif	Aug. 1
Cottage Hill, Fla	Nov. 4
Moore Haven, Fla	Nov. 25
Ritta, Fla	Do.
MOUNTAIN SNOWFALL.	
Dinkey Meadow, Calif	Nov. 1
Hobblers Camp, Calif	Do.
North Fork of Kings River, Calif	Do.
RAINFALL.	
Clinton, Ark	Aug. 16
Crystal Springs, Miss	Sept. 16
Elba, Ark	Aug. 16
Greenville, Ohio	Mar. 1
Harrison, Ark	Nov. 1
Hazlehurst, Miss	Apr. 1
Jackson, Ky	Do.
Magnolia, Miss	May 15
Milfordton, Ohio	June 1
RAINFALL—continued.	
Mount Vernon, Ohio	Nov. 1
Pangburn, Ark	Aug. 16
Spartanburg, S. C	Apr. 1
Valmora, N. Mex	July 1
RIVER.	
Hawley, Pa	June 1
Ord Ferry, Calif	Apr. 1
Pierre, S. Dak	Feb. 15
Warsaw, Mo	July 1
STORM WARNING.	
Port Washington, Wis	Apr. 15
VESSEL.	
Antilla (American)	June 1
China (American)	Dec. 6
City of Spokane (American)	Apr. 1
Cristobel (American)	June 1
Cross Keys (American)	Apr. 1
El Almirante (American)	June 1
El Estero (American)	Do.
El Isleo (American)	Sept. 1
El Mundo (American)	June 1
El Norte (American)	Do.
El Sol (American)	Oct. 1
Empress of Asia (Canadian)	Aug. 19
Empress of Japan (Canadian)	Aug. 13
Empress of Russia (Canadian)	Mar. 5
Hibuerias (British)	June 1
Huron (American)	Aug. 4
Makura (Canadian)	Aug. 12
Managua (British)	June 1
Manukai (American)	Oct. 1
Manulani (American)	Dec. 10
Monteagle (Canadian)	Sept. 20
Nanking (American)	Dec. 6
Niagara (Canadian)	Sept. 1
Porto Rica (American)	Sept. 22
Protesilaus (British)	Dec. 15
Sixalca (American)	June 1
Wheatland Montana (American)	Aug. 20

TABLE III.—*Changes in Weather Bureau stations during 1921.*

DISCONTINUED.

Stations.	Date discontinued.
CATTLE.	
Artesia, N. Mex	Feb. 21
Fort Sumner, N. Mex	Do.
Granger, Wyo	Feb. 28
Lamar, Colo	Feb. 21
CORN AND WHEAT.	
Grafton, N. Dak	June 15
Greenville, Ohio	Feb. 28
Hutchinson, Kans	Nov. 2
Paris, Ill	Mar. 31
Rochester, Minn	June 30
Wahpeton, N. Dak	Do.
CORN AND WHEAT AND RIVER.	
Warsaw, Mo	June 30
COTTON.	
Allendale, S. C	Mar. 31
Batesburg, S. C	Do.
Bolivar, Tenn	June 13
Clinton, La	Mar. 31
Guin, Ala	Do.
Livingston, Ala	Do.
Marianna, Ark	Do.
Rosedale, Miss	Do.
St. Matthews, S. C	Do.
Waynesboro, Ga	Do.
COTTON AND RAINFALL.	
Hazelhurst, Miss	Mar. 31
Spartanburg, S. C	Do.
CRANBERRY MARSH.	
Berlin, Wis	Apr. 30
MOUNTAIN SNOWFALL.	
Anchor Mine, N. Mex	Nov. 15
Gumboot, Oreg	Dec. 31
Hardy Ranger Station, S. Dak	May 31
Ironton, Colo	Sept. 30
Rockdale, Wash	Oct. 31
MOUNTAIN SNOWFALL—EVAPORATION.	
Marlette Lake, Nev	Aug. 31
RAINFALL.	
Bergman, Ark	Oct. 31
Hazelhurst, Miss	Aug. 31
London, Ky	May 20
Mendenhall, Miss	Sept. 15
Mount Vernon, Ohio	May 31
Mulberry, Ohio	Sept. 15
Plattsburg, Ohio	June 30
Shoemaker, N. Mex	Do.
Tylertown, Miss	Aug. 31
Washington Courthouse, Ohio	June 10
REGULAR.	
Mount Tamalpais, Calif	May 15
RIVER.	
Alum Creek, W. Va	June 30
Demopolis, Ala	Oct. 31
Elkhorn, Ky	June 30
Fairmont, W. Va	Aug. 31
Glencoe, Mo	Oct. 15
Greensboro, Pa	June 30
Honesdale, Pa	May 31
Jackson, Ky	Mar. 31
Las Animas, Colo	Sept. 30
Marlinton, W. Va	June 30
Monroeville, Calif	Mar. 31
Ord Ferry, Calif	May 31
Running Water, S. Dak	Aug. 31
Todd, N. C	June 30
Tuscaloosa, Ala	Oct. 31
SPECIAL METEOROLOGICAL.	
Gallup, N. Mex	Oct. 3
Jackson, Miss	Jan. 31
STORM WARNING.	
Grand Marais, Minn	June 30
Keyport, N. J	Feb. 20
SUGAR AND RICE.	
Easton, La	Mar. 31
Rayne, La	Do.
TOBACCO.	
East Windsor Hill, Conn	May 31
Hazardville, Conn	Do.
Suffield, Conn	Do.
Tariffville, Conn	Do.
VESSELS.	
Alabama (American)	May 31
Aryan (American)	Do.
Boxley (American)	Do.
Brabant (American)	Do.
City of Spokane (American)	Dec. 31
Columbia (American)	Mar. 31
Conotton (American)	May 31
Cross Keys (American)	Dec. 31
Florida (American)	May 31
Georgia (American)	Do.
Lake Arthur and Tipton (American)	Apr. 30
Lake Geneva (American)	May 31
Lake Glebe (American)	Do.
Lightburne (American)	Do.
Louisiana (American)	Do.
Lynchburg (American)	Do.
New York (American)	Do.
Pennsylvania (American)	Do.
Roanoke (American)	Do.
Shenandoah (American)	Do.
Solitaire (American)	Do.
Standard (American)	Do.
Virginia (American)	Do.
West Totant (American)	Do.
Wheatland Montana (American)	Nov. 13

SUNSHINE, 1921.

The following tables give 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, 1921.

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.	163	56	144	49	195	53	249	62	336	74	329	72
Alpena, Mich.	82	29	92	32	126	34	210	52	250	54	305	65
Amarillo, Tex.	230	73	268	88	302	81	352	90	350	81	325	75
Anniston, Ala.	168	53	159	52	226	61	272	70	284	66	247	57
Asheville, N. C.	118	38	129	42	208	56	253	64	239	55	256	59
Atlanta, Ga.	156	49	149	49	213	57	286	73	277	64	304	70
Atlantic City, N. J.	158	52	174	58	267	72	226	57	249	56	308	69
Augusta, Ga.	191	60	189	61	268	72	284	73	277	64	326	76
Baker, Oreg.	114	40	151	52	256	69	258	64	305	66	337	72
Baltimore, Md.	141	46	146	49	236	64	205	52	221	50	317	71
Binghamton, N. Y.	97	33	85	29	134	36	173	43	231	51	275	60
Birmingham, Ala.	143	45	159	52	213	57	252	64	273	63	287	67
Bismarck, N. Dak.	150	54	179	62	206	56	269	66	282	60	340	72
Block Island, R. I.	122	41	130	44	125	45	147	37	223	50	242	54
Boise, Idaho	83	29	121	41	227	61	206	51	287	63	352	76
Boston, Mass.	163	55	159	54	210	57	174	43	288	64	332	73
Broken Arrow, Okla.	99	32	193	63	177	48	248	63	288	66	185	42
Buffalo, N. Y.	104	35	100	34	147	40	211	52	253	56	312	68
Burlington, Vt.	115	40	106	36	130	35	193	48	304	66	305	66
Canton, N. Y.	143	50	114	39	144	39	222	55	333	72	329	70
Charles City, Iowa	70	24	117	39	173	47	176	44	224	49	296	64
Charleston, S. C.	198	62	179	58	249	67	284	73	251	58	318	74
Charlotte, N. C.	152	49	160	52	222	60	251	64	242	56	323	74
Chattanooga, Tenn.	138	44	154	50	213	57	281	72	289	67	260	60
Cheyenne, Wyo.	204	68	201	67	243	65	257	64	270	60	301	67
Chicago, Ill.	170	57	112	38	182	49	247	62	316	70	315	69
Chicago University, Ill.	177	60	114	38	198	53	246	61	327	72	332	73
Cincinnati, Ohio	129	43	111	37	198	53	267	67	325	73	325	73
Cleveland, Ohio	110	37	88	30	140	38	223	56	310	69	333	73
Columbia, Mo.	106	35	178	59	207	56	241	61	313	70	298	67
Columbus, Ohio	146	48	93	31	191	51	252	63	316	71	349	78
Concordia, Kans.	136	45	218	73	256	69	298	75	317	71	345	77
Dallas, Tex.	201	63	215	70	238	64	281	72	336	78	279	65
Dayton, Ohio	119	39	96	32	175	47	250	63	332	74	336	75
Del Rio, Tex.	145	45	180	58	173	46	242	63	176	42	279	67
Denver, Colo.	168	56	196	65	240	65	237	59	298	67	301	67
Des Moines, Iowa	157	53	179	60	225	61	241	60	318	70	311	68
Detroit, Mich.	140	48	115	39	151	41	237	59	332	73	316	69
Devils Lake, N. Dak.	149	54	126	44	163	44	254	62	353	75	300	63
Dodge City, Kans.	183	60	236	78	306	82	321	81	318	72	300	68
Drexel, Nebr.	106	36	188	63	215	58	229	57	281	63	314	70
Dubuque, Iowa	127	43	124	42	175	47	225	56	279	62	286	63
Due West, S. C.	154	49	150	49	223	60	270	69	263	61	287	66
Eastport, Me.	131	46	158	54	190	51	195	48	294	64	243	52
Elkins, W. Va.	111	37	98	33	184	50	196	49	209	47	250	56
Ellendale, N. Dak.	165	58	166	57	196	53	267	66	280	60	316	67
El Paso, Tex.	249	78	252	82	350	94	354	91	380	89	376	88
Erie, Pa.	70	24	52	18	105	28	166	41	244	54	270	59
Escanaba, Mich.	118	42	112	38	136	37	240	59	261	56	311	66
Eureka, Calif.	88	30	98	33	122	33	217	54	215	48	228	50
Evansville, Ind.	126	41	128	42	243	66	286	72	321	73	292	66
Fort Smith, Ark.	125	40	209	68	205	55	236	60	320	74	249	57
Fort Wayne, Ind.	126	42	98	33	198	53	226	56	292	65	343	76
Fresno, Calif.	138	45	214	70	283	76	360	91	354	81	425	97
Galveston, Tex.	180	55	207	66	234	63	273	71	362	86	316	75

Sunshine, 1921—Continued.

Stations.	July.		August.		September.		October.		November.		December.		Annual.	
	Hours.	Per centage of possible.	Hours.	Per centage of possible.	Hours.	Per centage of possible.	Hours.	Per centage of possible.	Hours.	Per centage of possible.	Hours.	Per centage of possible.	Hours.	Percent age of possible.
Albany, N. Y.	285	61	310	72	252	67	177	52	71	24	126	45	2,638	57
Alpena, Mich.	319	68	235	54	190	51	97	29	54	19	36	13	1,997	42
Amarillo, Tex.	326	74	357	86	307	83	322	92	277	89	210	69	3,627	82
Anniston, Ala.	275	63	221	53	247	67	275	78	140	45	163	53	2,677	60
Asheville, N. C.	242	55	254	61	236	63	267	76	147	48	157	52	2,507	56
Atlanta, Ga.	265	60	178	43	246	66	283	81	157	50	174	57	2,689	60
Atlantic City, N. J.	273	60	296	70	236	63	253	73	126	42	147	50	2,714	60
Augusta, Ga.	271	62	281	68	288	78	264	75	167	53	204	66	3,012	67
Baker, Oreg.	423	90	360	83	240	64	226	67	110	38	113	41	2,892	62
Baltimore, Md.	288	64	285	67	223	60	275	79	134	43	146	50	2,619	58
Binghamton, N. Y.	205	44	236	55	162	43	162	47	65	22	116	41	1,941	42
Birmingham, Ala.	280	64	254	61	235	63	277	79	157	50	139	45	2,670	59
Bismarck, N. Dak.	380	79	368	84	259	69	233	69	125	44	146	55	2,937	64
Block Island, R. I.	140	31	260	61	242	65	209	61	101	34	119	41	2,100	47
Boise, Idaho	431	92	362	84	273	73	243	71	92	32	120	43	2,798	60
Boston, Mass.	274	59	340	79	269	72	224	65	94	32	132	46	2,659	58
Broken Arrow, Okla.	317	71	280	67	202	54	282	81	190	62	96	32	2,555	57
Buffalo, N. Y.	314	68	268	62	232	62	148	43	20	7	37	13	2,146	45
Burlington, Vt.	264	56	252	58	195	52	153	45	45	15	64	23	2,126	45
Canton, N. Y.	304	64	244	56	214	57	158	47	52	18	98	36	2,354	50
Charles City, Iowa	352	76	260	60	199	53	147	43	75	26	106	38	2,194	47
Charleston, S. C.	248	57	284	69	312	84	214	61	233	74	230	74	3,000	68
Charlotte, N. C.	284	64	227	54	256	69	254	73	158	51	179	59	2,707	60
Chattanooga, Tenn.	255	58	204	49	234	63	255	73	111	36	146	48	2,542	56
Cheyenne, Wyo.	340	74	297	69	305	82	262	76	201	68	210	73	3,090	69
Chicago, Ill.	405	88	307	72	260	70	232	62	103	35	92	33	2,742	59
Chicago University, Ill.	414	90	297	69	255	68	218	64	96	32	88	31	2,761	59
Cincinnati, Ohio	327	72	299	71	214	57	213	62	125	41	78	27	2,610	56
Cleveland, Ohio	373	81	312	73	221	59	196	57	41	14	58	20	2,406	51
Columbia, Mo.	361	80	295	70	212	57	262	76	149	49	151	51	2,773	61
Columbus, Ohio	382	84	313	74	216	58	205	60	94	31	64	22	2,621	56
Concordia, Kans.	390	86	360	85	304	81	279	81	190	64	172	59	3,266	72
Dallas, Tex.	374	86	364	88	299	81	316	90	232	74	199	64	3,334	75
Dayton, Ohio	369	81	314	74	251	67	223	65	120	40	72	25	2,654	57
Del Rio, Tex.	337	79	386	95	258	70	312	88	176	55	173	54	2,937	64
Denver, Colo.	332	73	273	64	286	77	214	62	164	55	178	61	2,888	64
Des Moines, Iowa	382	83	330	77	236	63	237	69	134	45	166	58	2,916	64
Detroit, Mich.	360	78	263	61	231	62	195	57	63	21	68	24	2,469	53
Devils Lake, N. Dak.	337	70	296	67	170	45	206	61	97	35	126	48	2,578	56
Dodge City, Kans.	357	79	338	80	318	85	304	87	244	80	198	67	3,423	77
Drexel, Nebr.	299	65	263	62	243	65	233	67	129	43	149	52	2,649	58
Dubuque, Iowa	354	77	246	57	226	60	186	54	102	34	104	36	2,434	53
Due West, S. C.	239	54	209	50	252	68	261	74	149	48	173	56	2,629	59
Eastport, Me.	248	53	336	77	263	70	207	61	65	23	143	52	2,472	54
Elkins, W. Va.	272	60	223	53	207	56	212	61	103	34	91	31	2,156	47
Ellendale, N. Dak.	316	66	306	70	227	60	204	60	116	41	158	59	2,717	60
El Paso, Tex.	318	73	349	85	290	78	338	96	275	87	237	76	3,767	85
Erie, Pa.	234	51	282	66	239	64	205	60	42	14	52	18	1,960	41
Escanaba, Mich.	337	71	266	61	233	62	151	45	68	24	82	30	2,315	49
Eureka, Calif.	248	54	200	47	277	74	117	34	93	31	100	35	2,002	44
Evansville, Ind.	384	85	313	74	224	60	268	77	140	46	128	43	2,854	62
Fort Smith, Ark.	356	81	298	72	246	66	292	83	179	58	150	49	2,864	64
Fort Wayne, Ind.	386	84	290	68	230	62	170	50	72	24	67	23	2,499	53
Fresno, Calif.	430	96	414	99	347	93	294	85	246	80	154	52	3,659	80
Galveston, Tex.	352	82	354	87	268	72	315	89	234	73	186	58	3,282	73

Sunshine, 1921—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.
Grand Haven, Mich	128	44	111	38	150	40	225	56	332	73	373	81
Grand Junction, Colo	154	51	210	70	216	58	204	51	254	57	321	72
Grand Rapids, Mich	141	48	113	38	178	48	243	60	357	79	356	78
Green Bay, Wis	110	38	84	29	154	41	266	66	315	68	342	73
Greenville, S. C	152	49	152	50	224	60	311	79	265	61	294	68
Groesbeck, Tex	176	55	193	62	214	58	260	67	342	80	295	69
Harrisburg, Pa	204	68	192	64	288	78	225	56	292	66	343	76
Hartford, Conn	147	50	149	50	206	56	221	55	299	66	316	69
Havre, Mont	166	61	139	49	146	40	216	52	246	52	282	58
Helena, Mont	128	46	172	60	199	54	224	55	217	46	306	64
Honolulu, Hawaii	126	37	233	73	224	60	239	63	214	52	231	58
Houston, Tex	198	61	196	63	193	52	258	67	307	72	204	49
Huron, S. Dak	125	43	192	65	251	68	267	66	255	56	376	81
Independence, Calif	182	59	252	83	307	83	349	88	304	69	390	89
Indianapolis, Ind	121	40	99	33	172	46	238	60	338	76	304	68
Jacksonville, Fla	192	59	204	65	277	74	306	79	297	70	294	70
Juneau, Alaska	60	27	47	18	190	52	135	31	190	37	262	48
Kalispell, Mont	97	35	148	52	165	45	244	59	335	71	326	68
Kansas City, Mo	171	56	205	68	237	64	281	71	367	83	341	77
Keokuk, Iowa	166	42	175	58	216	58	251	63	314	70	293	65
Key West, Fla	228	68	244	77	309	83	314	82	295	71	293	71
Knoxville, Tenn	138	44	152	50	247	67	303	77	315	72	316	72
LaCrosse, Wis	130	45	135	46	191	52	238	59	262	57	350	76
Lander, Wyo	244	84	239	81	292	78	261	65	288	63	356	77
Lansing, Mich	99	34	92	31	132	36	202	50	301	66	336	73
Lexington, Ky	112	37	91	30	176	47	241	61	285	65	295	67
Little Rock, Ark	119	38	181	59	207	56	256	65	333	77	282	65
Los Angeles, Calif	210	67	243	79	253	68	304	78	184	42	252	59
Louisville, Ky	135	44	130	43	227	61	251	63	275	62	274	62
Ludington, Mich	109	38	102	35	145	39	248	61	316	69	362	78
Lynchburg, Va	146	47	155	51	229	62	269	68	242	55	332	75
Macon, Ga	219	69	176	57	262	70	313	80	307	71	346	81
Madison, Wis	102	35	85	29	134	36	203	50	270	59	304	66
Marquette, Mich	100	36	108	37	116	31	225	55	282	60	320	67
Memphis, Tenn	156	50	190	62	242	65	291	74	368	85	324	75
Meridian, Miss	163	51	193	62	229	61	280	72	339	79	339	80
Miami, Fla	224	67	243	77	302	81	295	77	309	74	287	70
Milwaukee, Wis	137	47	102	35	143	39	212	53	261	57	256	56
Minneapolis, Minn	104	36	121	41	174	47	231	57	271	59	361	77
Mobile, Ala	219	68	195	63	273	73	281	72	315	74	323	76
Modena, Utah	197	64	243	80	273	74	287	72	297	67	384	87
New Haven, Conn	163	55	177	59	258	69	202	51	293	65	345	76
New Orleans, La	210	65	206	66	247	66	252	65	296	70	248	59
New York, N. Y	162	54	150	50	243	66	228	57	280	62	315	70
Norfolk, Va	165	53	154	51	264	71	245	62	220	50	334	76
Northfield, Vt	110	38	136	46	147	40	185	46	293	64	294	63
North Head, Wash	46	18	52	24	157	43	194	48	252	54	220	47
North Platte, Nebr	150	50	204	68	253	68	271	68	311	69	362	80
Oklahoma City, Okla	171	55	226	74	218	59	278	71	293	68	265	61
Omaha, Nebr	132	44	208	70	248	67	266	66	340	76	347	77
Parkersburg, W. Va	122	40	120	40	212	57	260	65	273	61	324	73
Pensacola, Fla	218	67	182	58	247	66	270	70	305	72	356	84
Peoria, Ill	147	49	130	43	201	54	240	60	314	70	302	68
Philadelphia, Pa	173	57	166	55	264	71	232	58	264	59	325	72
Phoenix, Ariz	214	68	272	88	319	86	356	91	392	91	390	91

Sunshine, 1921—Continued.

Stations.	July.		August.		September.		October.		November.		December.		Annual.	
	Hours.	Per centage of possible.	Hours.	Per centage of possible.	Hours.	Per centage of possible.	Hours.	Per centage of possible.	Hours.	Per centage of possible.	Hours.	Per centage of possible.	Hours.	Per centage of possible.
Grand Haven, Mich	383	82	284	66	233	62	195	57	73	25	49	17	2,537	53
Grand Junction, Colo	305	67	246	58	334	89	253	73	194	65	152	52	2,843	64
Grand Rapids, Mich	337	72	230	53	250	67	175	51	53	18	33	12	2,465	52
Green Bay, Wis	374	79	278	64	221	59	132	39	65	23	84	31	2,424	51
Greenville, S. C	273	62	240	58	265	71	273	78	157	50	188	62	2,794	62
Groesbeck, Tex	382	88	376	91	304	82	317	90	235	74	180	57	3,275	73
Harrisburg, Pa	310	68	302	71	231	62	239	69	123	41	148	51	2,896	64
Hartford, Conn	247	54	275	64	220	59	176	51	62	21	129	45	2,447	53
Havre, Mont	369	76	329	74	146	39	207	62	87	31	115	45	2,448	53
Helena, Mont	365	76	321	73	144	38	214	64	86	31	78	29	2,454	53
Honolulu, Hawaii	233	57	268	67	228	62	240	66	179	53	173	51	2,587	58
Houston, Tex	292	68	307	75	195	53	314	89	201	63	163	51	2,829	64
Huron, S. Dak	328	70	269	62	260	69	229	67	130	45	153	55	2,837	62
Independence, Calif	398	89	361	86	351	94	294	85	234	77	164	55	3,586	80
Indianapolis, Ind	367	81	287	68	211	56	227	66	120	40	90	31	2,574	55
Jacksonville, Fla	251	58	316	77	321	87	215	61	210	66	192	60	3,074	69
Juneau, Alaska	40	7	132	28	87	23	24	8	112	47	44	22	1,325	29
Kalispell, Mont	398	82	401	91	222	59	208	62	75	27	87	33	2,707	57
Kansas City, Mo	401	89	320	76	263	71	270	78	189	63	174	59	3,220	71
Keokuk, Iowa	347	76	290	68	218	58	235	68	125	42	151	52	2,780	60
Key West, Fla	279	67	274	68	276	75	180	50	263	80	280	85	3,235	73
Knoxville, Tenn	284	64	235	56	227	61	268	77	114	37	143	47	2,745	60
LaCrosse, Wis	400	85	315	73	241	64	172	51	90	31	89	32	2,613	56
Lander, Wyo	402	86	378	88	335	89	324	95	200	68	164	58	3,482	78
Lansing, Mich	377	81	259	60	213	57	199	58	48	16	56	20	2,312	48
Lexington, Ky	299	67	265	63	176	47	239	69	117	39	75	25	2,371	51
Little Rock, Ark	339	77	282	68	249	67	288	82	169	54	140	46	2,844	63
Los Angeles, Calif	351	80	335	81	277	75	231	66	239	77	171	56	3,051	69
Louisville, Ky	297	66	265	63	177	47	249	72	113	37	88	30	2,484	54
Ludington, Mich	381	81	306	71	229	61	197	58	59	20	49	18	2,502	52
Lynchburg, Va	358	80	362	86	289	78	288	83	167	55	160	53	2,996	66
Macon, Ga	302	69	299	72	307	83	286	81	176	56	207	67	3,199	71
Madison, Wis	368	79	270	63	221	59	197	57	92	31	91	33	2,337	50
Marquette, Mich	323	67	253	58	200	53	114	34	56	20	60	23	2,160	45
Memphis, Tenn	333	75	312	75	296	80	301	86	180	58	154	50	3,147	70
Meridian, Miss	295	68	302	73	302	81	288	82	205	65	178	57	3,114	69
Miami, Fla	257	61	293	72	283	77	138	38	252	77	252	77	3,136	71
Milwaukee, Wis	377	81	231	54	270	72	204	60	102	35	122	44	2,419	53
Minneapolis, Minn	376	80	320	74	236	63	179	53	81	28	99	36	2,552	54
Mobile, Ala	267	62	270	66	257	69	248	70	156	49	210	67	3,015	67
Modena, Utah	355	79	303	72	351	94	277	80	250	82	170	58	3,386	76
New Haven, Conn	276	60	321	75	287	77	284	83	128	43	173	60	2,907	64
New Orleans, La	253	59	209	51	224	60	304	86	206	64	180	57	2,837	64
New York, N. Y	265	58	284	67	229	61	215	63	109	37	164	57	2,646	58
Norfolk, Va	340	76	334	80	298	80	240	69	177	58	150	50	2,921	65
Northfield, Vt	236	50	260	60	208	56	153	45	41	14	107	39	2,170	47
North Head, Wash	274	58	202	46	210	56	142	42	70	24	151	56	1,971	43
North Platte, Nebr	396	86	340	80	296	79	296	86	170	57	159	55	3,210	70
Oklahoma City, Okla	328	74	352	85	283	76	306	87	246	79	177	58	3,144	71
Omaha, Nebr	361	79	322	76	265	71	252	73	146	49	191	67	3,079	68
Parkersburg, W. Va	352	78	311	73	238	64	238	69	112	37	91	31	2,651	57
Pensacola, Fla	294	68	304	74	304	82	308	87	226	71	214	67	3,226	72
Peoria, Ill	383	84	284	66	234	63	229	67	86	29	95	33	2,650	57
Philadelphia, Pa	254	56	268	63	215	58	246	71	118	39	125	43	2,650	58
Phoenix, Ariz	363	83	324	78	348	94	328	93	272	87	182	58	3,759	84

Sunshine, 1921—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	117	39	88	29	182	49	236	59	274	61	329	73
Pocatello, Idaho	106	36	147	50	207	56	188	47	238	52	354	77
Port Angeles, Wash	40	15	70	25	153	41	231	56	290	61	137	29
Port Arthur, Tex	179	55	211	68	241	65	248	64	358	85	330	79
Port Huron, Mich	107	37	95	32	133	36	213	53	306	67	316	69
Portland, Me	159	55	170	58	201	54	192	47	321	70	342	74
Portland, Oreg	75	26	89	31	157	43	206	51	315	68	291	62
Providence, R. I	151	51	156	53	216	58	182	45	293	65	339	75
Pueblo, Colo	218	71	254	84	275	74	294	74	347	79	335	76
Raleigh, N. C	164	53	162	53	248	67	223	57	186	43	285	65
Rapid City, S. Dak	173	60	213	73	235	63	290	72	252	55	300	65
Reading, Pa	164	54	161	54	244	66	235	59	248	56	337	75
Richmond, Va	124	40	132	44	233	63	223	56	196	44	317	72
Rochester, N. Y	134	46	124	42	143	39	237	59	320	70	360	78
Roswell, N. Mex	190	60	234	76	282	76	316	81	306	71	270	63
Royal Center, Ind	139	47	118	39	203	55	232	58	352	78	343	76
Sacramento, Calif	140	46	208	69	243	66	350	88	361	81	416	93
Saginaw, Mich	103	35	88	30	148	40	215	53	286	63	342	74
St. Joseph, Mo	131	44	182	61	224	60	264	66	344	77	312	70
St. Louis, Mo	151	50	166	55	227	61	245	62	333	75	328	74
St. Paul, Minn	109	38	119	41	183	49	221	54	254	55	324	69
Salt Lake City, Utah	138	46	196	66	249	67	240	60	312	70	373	83
San Antonio, Tex	174	53	204	65	203	55	271	70	306	73	315	75
San Diego, Calif	213	67	224	73	253	68	314	81	210	49	234	55
Sandy Hook, N. J	167	55	159	53	243	66	221	55	261	58	318	71
San Francisco, Calif	143	47	160	53	187	50	266	67	253	57	376	85
San Jose, Calif	134	43	.....	.....	174	47	272	69	221	50	376	86
San Juan, Porto Rico	226	65	234	72	248	66	268	71	245	61	270	68
San Luis Obispo, Calif	186	60	238	78	236	63	328	84	290	67	361	83
Santa Fe, N. Mex	186	60	239	78	273	73	301	76	322	74	319	73
Sault Ste. Marie, Mich	90	32	115	40	113	30	195	48	266	57	339	72
Savannah, Ga	156	49	185	60	262	70	301	77	287	67	325	76
Seattle, Wash	57	21	90	31	124	34	162	39	277	59	223	47
Sheridan, Wyo	188	66	226	78	246	66	297	73	283	61	385	82
Sioux City, Iowa	111	38	159	53	216	58	222	55	267	59	344	76
Spokane, Wash	86	31	84	29	203	55	214	52	346	74	333	70
Springfield, Ill	139	46	127	42	207	56	237	59	329	74	315	70
Springfield, Mo	120	39	186	61	200	54	208	53	296	68	247	56
Tacoma, Wash	29	10	55	18	104	28	142	35	223	48	102	21
Tampa, Fla	220	67	212	67	303	81	310	80	307	73	312	75
Terre Haute, Ind	130	43	113	38	189	51	219	55	324	73	284	64
Toledo, Ohio	111	37	87	29	120	32	209	52	281	62	302	66
Tonopah, Nev	123	40	203	67	232	63	287	72	284	64	393	89
Trenton, N. J	141	47	142	47	213	57	217	54	230	52	308	69
Vicksburg, Miss	162	51	188	61	196	53	263	68	383	89	318	75
Walla Walla, Wash	69	24	70	24	200	54	217	53	312	67	332	71
Washington, D. C	148	49	153	51	264	71	211	53	227	51	345	77
Wichita, Kans	146	48	230	76	248	67	292	74	334	76	313	71
Williston, N. Dak	156	57	187	65	246	67	305	74	342	73	314	66
Wilmington, N. C	177	56	149	49	261	70	289	74	240	56	314	73
Winnemucca, Nev	128	43	199	67	226	61	253	63	308	68	384	85
Wytheville, Va	136	44	124	41	225	61	215	55	216	49	288	65
Yankton, S. Dak	119	41	158	53	234	63	228	57	256	56	377	82
Yellowstone Park, Wyo	100	35	144	49	203	55	203	50	209	45	301	65
Yuma, Ariz	238	75	286	93	338	91	379	97	402	93	404	94

Sunshine, 1921—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	357	78	286	67	196	52	218	63	74	25	69	24	2,427	52
Pocatello, Idaho	359	77	313	73	288	77	259	76	141	48	124	44	2,723	59
Port Angeles, Wash	365	76	247	56	212	56	156	46	26	9	53	20	1,981	41
Port Arthur, Tex	329	77	325	79	238	64	305	86	205	64	143	45	3,112	69
Port Huron, Mich	326	70	245	57	238	64	176	52	56	19	59	21	2,269	48
Portland, Me	265	57	338	78	279	74	208	61	78	27	147	53	2,701	59
Portland, Oreg	384	81	328	75	250	66	163	48	57	20	75	28	2,391	50
Providence, R. I	276	60	340	79	278	74	242	71	113	38	148	52	2,736	60
Pueblo, Colo	370	82	334	79	341	91	314	90	274	90	226	76	3,581	80
Raleigh, N. C	237	53	255	61	253	68	243	70	173	56	146	48	2,575	58
Rapid City, S. Dak	317	68	307	71	279	74	264	78	126	43	136	49	2,892	64
Reading, Pa	285	63	328	77	237	64	239	69	76	25	93	32	2,645	58
Richmond, Va	320	71	345	82	284	76	271	78	166	54	138	47	2,748	61
Rochester, N. Y	331	71	310	72	264	70	168	49	54	19	45	16	2,489	53
Roswell, N. Mex	284	65	311	75	270	73	311	88	264	84	224	72	3,263	74
Royal Center, Ind	409	89	307	72	251	67	202	59	97	33	70	24	2,721	58
Sacramento, Calif	449	99	419	99	345	92	296	85	211	70	152	52	3,589	78
Saginaw, Mich	382	82	298	69	266	71	198	58	49	17	61	22	2,437	51
St. Joseph, Mo	369	81	296	70	227	61	262	76	156	52	167	57	2,934	65
St. Louis, Mo	368	81	276	65	184	49	266	77	125	41	114	39	2,783	61
St. Paul, Minn	391	83	314	72	247	66	209	62	94	33	110	40	2,574	55
Salt Lake City, Utah	382	83	345	81	327	87	277	80	171	58	145	50	3,155	69
San Antonio, Tex	353	83	362	89	254	69	297	84	146	46	204	64	3,090	69
San Diego, Calif	278	64	291	70	281	76	189	54	219	70	161	52	2,868	65
Sandy Hook, N. J	304	67	299	70	234	63	238	69	126	42	159	55	2,727	60
San Francisco, Calif	299	66	276	66	300	80	225	65	194	64	148	50	2,825	62
San Jose, Calif	388	87	354	84	317	85	253	73	219	71	142	48	.....	.....
San Juan, Porto Rico	253	62	291	74	214	58	244	67	252	74	255	74	3,001	68
San Luis Obispo, Calif	333	75	324	78	265	71	246	70	234	75	159	52	3,200	71
Santa Fe, N. Mex	316	71	245	59	308	83	278	79	244	79	151	50	3,181	71
Sault Ste. Marie, Mich	322	68	250	57	186	50	129	38	66	23	53	20	2,124	45
Savannah, Ga	194	45	244	59	314	85	226	64	183	58	188	60	2,865	64
Seattle, Wash	316	65	273	62	172	46	115	34	33	12	95	36	1,938	40
Sheridan, Wyo	432	91	364	84	260	69	263	78	150	52	158	58	3,251	72
Sioux City, Iowa	311	67	258	60	223	60	229	67	104	35	141	50	2,584	56
Spokane, Wash	440	91	378	86	222	59	211	63	97	35	116	44	2,731	57
Springfield, Ill	371	81	277	65	222	60	250	72	119	40	126	43	2,718	59
Springfield, Mo	351	78	231	55	238	64	275	79	181	59	131	44	2,664	59
Tacoma, Wash	275	57	233	53	131	35	95	28	24	8	27	10	1,439	29
Tampa, Fla	253	59	296	73	312	84	179	50	240	74	214	66	3,155	71
Terre Haute, Ind	384	85	291	69	216	58	238	69	143	47	110	38	2,642	58
Toledo, Ohio	360	78	266	62	220	59	179	52	51	17	70	25	2,256	48
Tonopah, Nev	407	91	362	86	352	94	280	80	234	77	158	53	3,315	73
Trenton, N. J	269	59	275	65	222	59	256	74	129	43	158	55	2,560	57
Vicksburg, Miss	341	78	341	83	299	81	302	86	190	60	134	43	3,117	69
Walla Walla, Wash	422	89	384	88	238	63	219	65	95	33	51	19	2,610	54
Washington, D. C	288	64	264	62	247	66	268	77	123	41	128	43	2,666	59
Wichita, Kans	382	85	314	74	268	72	285	82	205	68	121	41	3,138	70
Williston, N. Dak	395	82	383	87	205	54	232	69	88	32	138	53	2,991	65
Wilmington, N. C	269	61	292	70	287	77	244	69	203	65	189	61	2,914	65
Winnemucca, Nev	438	96	401	94	340	91	287	84	185	62	149	52	3,298	72
Wytheville, Va	282	63	248	59	227	61	245	70	129	42	103	34	2,440	54
Yankton, S. Dak	363	78	307	71	274	73	242	71	128	44	126	45	2,811	61
Yellowstone Park, Wyo	324	69	308	71	240	64	264	78	125	44	104	38	2,525	55
Yuma, Ariz	393	90	370	89	344	93	331	94	285	91	201	65	3,968	89

EXCESSIVE RAINFALL.

The following table contains reports of excessive rainfall for the calendar year 1921. Similar records for the years 1896 to 1920, inclusive, have been published 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, and also in 1 and 24 hours. The annual report for 1895–96 contains a summary of the records which up to that time had been made at the principal stations supplied with automatic gauges.

The following table shows the accumulated amounts of precipitation for each 5 minutes during all storms of 1921 in which the rate of fall equaled or exceeded 0.25 inch in any 5-minute period or 0.80 inch in 1 hour at all stations of the Weather Bureau furnished with self-registering gauges, except that in the South Atlantic States and the Gulf region, where stations have normally heavy falls, data only for the more important storms are included, these stations being designated with reference mark and footnote.

At Taylor, Tex., on September 9 the tipping-bucket mechanism of the rain gauge was flooded about 10 p. m., after more than 10 inches had fallen within 3 hours, and for the ensuing 9 hours no further automatic record was made, though the fall continued very heavy.

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 1921 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.[1]																				
Portland, Me.:																				
July 26	1.40 p. m.	3.03 p. m.	0.78	2.10 p. m.	2.45 p. m.	0.01	0.06	0.20	0.35	0.52	0.60	0.68	0.74							
July 28	2.30 p. m.	3.45 p. m.	.63	2.30 p. m.	2.50 p. m.	.00	[4].14	[4].34	[4].40	[4].43										
July 31	10.10 a. m.	11.07 a. m.	.36	10.48 a. m.	10.56 a. m.	.02	.26	.32												
Aug. 8	[2]D. N. p. m.	6.40 a. m.	1.29	4.50 a. m.	5.30 a. m.	.30	.05	.12	.18	.26	.36	.47	.56	0.65						
Oct. 20	8.32 a. m.	1.10 p. m.	.62	12.31 p. m.	12.42 p. m.	.21	.24	.30	.37											
Concord, N. H.:																				
Sept. 30	4.45 p. m.	6.00 p. m.	.68	5.33 p. m.	5.45 p. m.	.08	.30	.54	.56											
Burlington, Vt.:																				
Sept. 12	3.28 p. m.	4.25 p. m.	1.05	3.53 p. m.	4.14 p. m.	.08	.09	.25	.54	.88	.97									
Northfield, Vt.:																				
June 13	2.17 p. m.	3.13 p. m.	.48	2.41 p. m.	2.56 p. m.	.03	.15	.30	.42											
June 28	[2]D. N. p. m.	D. N. a. m.	1.06	1.47 a. m.	2.06 a. m.	.29	.08	.30	.69	.75										
July 28	4.26 p. m.	6.12 p. m.	1.45	5.14 p. m.	6.05 p. m.	.09	.14	.37	.62	.92	1.04	1.05	1.09	1.11	1.21	1.35	1.36			
July 29	2.54 p. m.	5.00 p. m.	.78	3.18 p. m.	3.31 p. m.	.04	.10	.39	.54											
Aug. 11	10.15 p. m.	[3]7.20 a. m.	.94	10.43 p. m.	10.50 p. m.	T.	.30	.44												
Aug. 20	4.46 p. m.	5.20 p. m.	.45	4.46 p. m.	4.57 p. m.	.00	.22	.38	.41											
Sept. 30	3.20 p. m.	4.55 p. m.	.37	4.07 p. m.	4.12 p. m.	.08	.25													
Boston, Mass.:																				
June 29	4.00 p. m.	[3]6.40 a. m.	2.21	10.00 p. m.	10.20 p. m.	.42	.09	.19	.32	.42										
July 9	12.55 a. m.	12.00 noon	3.38	1.03 a. m.	2.58 a. m.	T.	.37	.47	.57	.61	.64	.68	.77	.96	.99	1.00	1.00	1.66	2.00	2.35
Do	12.55 a. m.	12.00 noon	3.38	8.10 a. m.	8.30 a. m.	2.63	.26	.51	.66	.71										
Do	6.02 p. m.	11.20 p. m.	2.66	6.02 p. m.	7.07 p. m.	.00	.13	.21	.29	.35	.41	.62	.83	.98	1.10	1.18	1.62	1.73		
Do	6.02 p. m.	11.20 p. m.	2.66	8.00 p. m.	8.35 p. m.	1.78	.23	.34	.45	.55	.64	.69	.77							
July 20	7.30 p. m.	9.30 p. m.	.86	7.59 p. m.	8.15 p. m.	.01	.19	.45	.61	.66										
Aug. 18	3.46 p. m.	4.33 p. m.	.56	3.46 p. m.	3.51 p. m.	.00	.41													
Nantucket, Mass.:																				
June 15	2.50 p. m.	4.20 p. m.	.42	3.12 p. m.	3.22 p. m.	.01	.26	.33												
June 30	8.05 a. m.	9.05 a. m.	.44	8.10 a. m.	8.19 a. m.	T.	.28	.37												
July 10	6.20 a. m.	7.05 a. m.	.57	6.34 a. m.	6.52 a. m.	.01	.10	.33	.50	.56										
July 31	12.55 p. m.	8.10 p. m.	.94	1.03 p. m.	1.23 p. m.	.01	.09	.23	.47	.56										
Oct. 3	2.40 p. m.	[3]5.50 a. m.	1.60	7.50 p. m.	8.25 p. m.	.60	.19	.29	.35	.36	.36	.52	.79							
Block Island, R. I.:																				
May 29	2.20 p. m.	[3]2.00 a. m.	2.34	2.23 p. m.	3.34 p. m.	.01	.19	.44	.60	.86	1.13	1.32	1.43	1.49	1.50	1.54	1.76	1.99		
July 20	[2]11.00 p. m.	3.15 a. m.	1.52	1.27 a. m.	1.46 a. m.	.66	.19	.51	.59	.66										
July 31	12.09 p. m.	1.05 p. m.	1.04	12.09 p. m.	12.39 p. m.	.00	.19	.41	.55	.71	.83	1.00								
Aug. 18	[2]11.00 p. m.	8.40 a. m.	1.94	7.09 a. m.	7.44 a. m.	1.00	.09	.26	.35	.47	.67	.75	.80							

[1] No excessive precipitation. [2] On previous date. [3] On following date. [4] Defective record.

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 0.30 in 1 hour during 1921 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—Con.																				
Providence, R. I.:																				
July 10	D. N. a. m.	1.20 p. m.	2.36	8.30 a. m.	9.26 a. m.	0.10	0.11	0.21	0.33	0.53	0.79	1.05	1.34	1.45	1.60	1.78	1.93			
Hartford, Conn.:																				
Sept. 30	4.04 p. m.	6.30 p. m.	1.18	4.22 p. m.	5.12 p. m.	.01	.28	.42	.52	.75	.77	.78	.80	.83	.94	1.07				
New Haven, Conn.:																				
July 3	3.16 a. m.	5.57 a. m.	.88	4.21 a. m.	4.48 a. m.	.11	.09	.22	.35	.46	.59	.63								
July 19	9.15 p. m.	[1]D. N. a. m.	2.22	9.27 p. m.	9.52 p. m.	.05	.14	.25	.27	.37	.52									
Do	9.15 p. m.	[2]D. N. a. m.	2.22	10.45 p. m.	11.56 p. m.	.69	.10	.15	.20	.32	.42	.58	.66	.73	.85	.96	1.12	1.36		
July 31	10.20 a. m.	11.25 a. m.	1.12	10.24 a. m.	10.46 a. m.	.01	.25	.63	.78	.92	95									
MIDDLE ATLANTIC STATES.																				
Albany, N. Y.:																				
July 15	9.05 a. m.	12.20 p. m.	.82	9.29 a. m.	9.44 a. m.	.15	.32	.45	.50											
July 29	12.18 p. m.	6.30 p. m.	.80	1.10 p. m.	1.40 p. m.	.18	.05	.12	.25	.33	.46	.52								
Aug. 7	6.10 p. m.	[2]D. N. a. m.	.76	7.44 p. m.	8.07 p. m.	.06	.09	.29	.34	.40	.49									
Aug. 30	6.15 p. m.	10.45 p. m.	.52	7.57 p. m.	8.02 p. m.	.09	.28													
Binghamton, N. Y.:																				
Apr. 29	2.50 p. m.	3.30 p. m.	.28	2.50 p. m.	2.55 p. m.	.00	.25													
July 5	4.40 p. m.	5.15 p. m.	.46	4.50 p. m.	5.04 p. m.	T.	.16	.22	.45											
July 9	5.30 p. m.	8.15 p. m.	1.22	5.33 p. m.	6.16 p. m.	T.	.12	.34	.60	.67	.79	.84	.89	.99	1.04					
July 14	10.35 p. m.	[2]D. N. a. m.	1.37	10.49 p. m.	11.40 p. m.	.07	.10	.18	.28	.43	.48	.49	.58	.69	.82	.94	1.00			
July 15	8.02 a. m.	8.15 a. m.	.42	8.02 a. m.	8.13 a. m.	.00	.24	.40	.42											
Sept. 2	2.21 p. m.	2.55 p. m.	.74	2.32 p. m.	2.41 p. m.	.12	.40	.61												
New York City, N. Y.:																				
June 28	2.29 p. m.	5.25 p. m.	.77	2.39 p. m.	2.54 p. m.	T.	.16	.42	.57											
Do	10.50 p. m.	[2]1.00 a. m.	.38	11.03 p. m.	11.13 p. m.	T.	.21	.33												
July 10	12.50 p. m.	1.47 p. m.	.61	12.54 p. m.	1.19 p. m.	T.	.15	.25	.33	.45	.55									
July 15	1.30 p. m.	5.15 p. m.	.97	1.38 p. m.	2.08 p. m.	T.	.14	.24	.38	.55	.62	.73								
July 29	2.05 p. m.	2.41 p. m.	.45	2.13 p. m.	2.28 p. m.	T.	.08	.38	.43											
Aug. 14	1.10 p. m.	1.36 p. m.	.37	1.10 p. m.	1.25 p. m.	.00	.18	.24	.37											
Sept. 30	3.11 p. m.	5.20 p. m.	1.40	3.12 p. m.	3.42 p. m.	T.	.09	.11	.31	.70	1.02	1.29								
Harrisburg, Pa.:																				
Aug. 2	4.30 a. m.	12.40 p. m.	.79	7.47 a. m.	7.57 a. m.	.16	.09	.31												
Aug. 20	6.45 p. m.	8.00 p. m.	.39	7.23 p. m.	7.33 p. m.	.03	.17	.34												
Philadelphia, Pa.:																				
Mar. 9	4.45 p. m.	6.40 p. m.	.34	4.47 p. m.	4.52 p. m.	.01	.28													
June 29	8.10 p. m.	8.40 p. m.	.44	8.18 p. m.	8.30 p. m.	.01	.11	.31	.41											
June 30	6.50 a. m.	10.42 a. m.	1.25	8.02 a. m.	8.57 a. m.	.11	.11	.19	.34	.44	.48	.53	.58	.69	.79	.85	.95			
July 26	4.55 p. m.	6.00 p. m.	.98	5.04 p. m.	5.37 p. m.	.01	.06	.24	.50	.67	.81	.86	.90							
Aug. 7	3.40 p. m.	5.05 p. m.	.74	3.57 p. m.	4.20 p. m.	.02	.11	.27	.28	.43	.63									
Do	6.10 p. m.	7.00 p. m.	.81	6.32 p. m.	6.42 p. m.	.06	.38	.75												
Do	10.13 p. m.	[2]D. N. a. m.	1.97	10.15 p. m.	11.40 p. m.	.01	.12	.14	.22	.46	.70	.87	1.05	1.09	1.11	1.13	1.19	1.81	1.91	
Reading, Pa.:																				
Mar. 9	2.48 p. m.	5.15 p. m.	.81	3.22 p. m.	3.42 p. m.	.02	.07	.21	.45	.55										
Apr. 15	2.10 p. m.	4.17 p. m.	1.75	3.21 p. m.	3.54 p. m.	.12	.13	.36	.79	1.02	1.28	1.52	1.63							
Apr. 23	6.00 a. m.	11.25 a. m.	1.56	9.25 a. m.	9.58 a. m.	.56	.06	.10	.14	.28	.51	.75	.87							
Do	1.45 p. m.	3.20 p. m.	.66	2.06 p. m.	2.23 p. m.	.05	.13	.36	.51	.55										
July 1	9.49 p. m.	11.25 p. m.	.84	10.07 p. m.	10.45 p. m.	.02	.05	.12	.24	.38	.52	.57	.67	.81						
Aug. 7	2.12 p. m.	4.02 p. m.	1.22	2.23 p. m.	2.47 p. m.	.01	.42	.78	1.03	1.12	1.19									
Do	8.15 p. m.	9.40 p. m.	.75	8.17 p. m.	8.32 p. m.	.01	.36	.58	.67											
Sept. 11	5.30 p. m.	6.43 p. m.	.78	5.40 p. m.	6.16 p. m.	.03	.07	.21	.30	.46	.54	.61	.69	.73						
Scranton, Pa.:																				
July 15	10.19 a. m.	11.12 a. m.	.40	10.19 a. m.	10.26 a. m.	.00	.27	.36												
Aug. 7	6.35 p. m.	D. N. p. m.	.98	6.48 p. m.	7.01 p. m.	.02	.15	.39	.46											
Sept. 21	5.42 p. m.	10.20 p. m.	.99	6.56 p. m.	7.16 p. m.	.19	.14	.25	.51	.59										
Atlantic City, N. J.:																				
June 30	12.54 p. m.	1.35 p. m.	.56	12.54 p. m.	1.04 p. m.	.00	.11	.39												
July 15	3.32 p. m.	[2]4.30 a. m.	1.81	4.04 p. m.	5.04 p. m.	.08	.15	.28	.35	.43	.55	.68	.73	.77	.86	.92	1.05			
July 29	3.55 p. m.	4.40 p. m.	.57	4.24 p. m.	4.33 p. m.	.01	.31	.55												
Aug. 2	10.45 a. m.	11.25 a. m.	.45	10.49 a. m.	10.57 a. m.	.02	.22	.40												
Sept. 30	2.28 p. m.	3.50 p. m.	.51	2.50 p. m.	3.05 p. m.	.02	.10	.33	.46											
Sandy Hook, N. J.:																				
June 28	3.06 p. m.	5.40 p. m.	1.01	3.13 p. m.	3.31 p. m.	T.	.21	.47	.73	.90										
July 15	8.42 a. m.	11.35 a. m.	3.69	9.53 a. m.	11.20 a. m.	.56	.24	.51	.70	.91	1.27	1.56	1.77	1.82	1.83	1.89	2.01	2.67	3.13	
Aug. 7	3.03 p. m.	[2]4.15 a. m.	1.51	5.49 p. m.	5.59 p. m.	.14	.17	.41												
Aug. 14	1.36 p. m.	4.05 p. m.	.92	2.00 p. m.	2.30 p. m.	.04	.15	.36	.50	.61	.74	.81								
Sept. 30	2.40 p. m.	4.50 p. m.	.67	2.40 p. m.	2.52 p. m.	.00	.24	.31	.36											
Trenton, N. J.:																				
June 11	9.10 p. m.	9.55 p. m.	.47	9.12 p. m.	9.30 p. m.	.01	.05	.20	.37	.43										
June 27	3.00 p. m.	6.10 p. m.	2.79	3.12 p. m.	3.32 p. m.	.01	.08	.30	.74	.94										
Do	3.00 p. m.	6.10 p. m.	2.79	4.14 p. m.	5.24 p. m.	1.00	.08	.16	.41	.53	.63	.75	.76	.77	.89	.99	1.14	1.73		
June 28	2.30 p. m.	3.35 p. m.	.48	2.33 p. m.	2.45 p. m.	.01	.13	.36	.44											
July 10	12.55 a. m.	D. N. a. m.	.70	2.40 a. m.	3.05 a. m.	.03	.10	.23	.39	.49	.54									
Aug. 7	3.20 p. m.	5.05 p. m.	.87	4.16 p. m.	4.53 p. m.	.02	.08	.17	.26	.37	.43	.52	.74	.85						
Do	5.40 p. m.	9.55 p. m.	3.17	5.46 p. m.	6.19 p. m.	.01	.19	.32	.63	.74	.80	.91	1.05							
Do	5.40 p. m.	9.55 p. m.	3.17	7.41 p. m.	8.20 p. m.	1.35	.08	.17	.44	.83	.97	1.23	1.51	1.55						
Do	10.28 p. m.	[2]D. N. a. m.	1.26	11.28 p. m.	11.58 p. m.	.49	.11	.18	.34	.44	.57	.64								
Baltimore, Md.:																				
May 15	10.02 p. m.	11.40 p. m.	.58	10.17 p. m.	10.38 p. m.	.02	.14	.33	.36	.47	.49									
May 25	8.10 p. m.	8.37 p. m.	.42	8.24 p. m.	8.32 p. m.	.01	.25	.41												
June 29	6.04 p. m.	7.25 p. m.	.68	6.44 p. m.	7.01 p. m.	.03	.20	.46	.60	.64										
June 30	12.15 p. m.	2.40 p. m.	.84	12.22 p. m.	12.46 p. m.	.01	.15	.27	.50	.73	.79									
July 11	10.31 p. m.	[2]6.50 a. m.	.87	11.12 p. m.	11.54 p. m.	.03	.06	.20	.26	.38	.47	.55	.57	.64	.68					
July 15	1.25 p. m.	3.10 p. m.	.55	1.34 p. m.	1.54 p. m.	.02	.17	.34	.43	.51										

[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 1921 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—contd.																				
Baltimore, Md.—Continued.																				
July 28	2.32 p.m.	3.15 p.m.	0.70	2.37 p.m.	2.49 p.m.	0.01	0.42	0.62	0.66											
Aug. 7	9.10 p.m.	9.53 p.m.	.36	9.23 p.m.	9.27 p.m.	.01	.30													
Aug. 12	5.55 p.m.	6.55 p.m.	.39	6.23 p.m.	6.36 p.m.	.01	.20	.32	.37											
Sept. 6-7	9.20 p.m.	2.30 a.m.	2.11	11.53 p.m.	12.28 a.m.	.08	.07	.11	.17	0.36	0.45	0.62	0.83							
Sept. 7	[2] 9.20 p.m.	2.30 a.m.	2.11	1.42 a.m.	2.08 a.m.	1.10	.09	.37	.62	.81	.94	.96								
Washington, D. C.:																				
Mar. 9	3.27 p.m.	4.30 p.m.	.53	3.29 p.m.	3.40 p.m.	.01	.38	.50	.51											
Apr. 23	11.12 a.m.	3.15 p.m.	.61	11.34 a.m.	11.44 a.m.	.02	.15	.30												
June 26	5.55 p.m.	7.30 p.m.	1.03	6.27 p.m.	7.03 p.m.	.01	.12	.22	.37	.57	.80	.90	.99	1.01						
June 30	3.16 p.m.	5.05 p.m.	1.65	3.50 p.m.	4.44 p.m.	.07	.36	.70	.89	1.03	1.16	1.20	1.20	1.20	1.20	1.41	1.55			
July 13	6.24 p.m.	8.05 p.m.	.52	6.27 p.m.	6.43 p.m.	.01	.16	.39	.44	.50										
July 15	3.10 p.m.	5.40 p.m.	1.82	3.12 p.m.	3.30 p.m.	.01	.45	1.14	1.48	1.59										
July 28	2.57 p.m.	3.35 p.m.	.32	3.06 p.m.	3.16 p.m.	.01	.21	.30												
July 29	4.01 p.m.	5.51 p.m.	.45	4.04 p.m.	4.26 p.m.	.01	.17	.18	.24	.41	.43									
Sept. 2	5.04 p.m.	6.15 p.m.	.49	5.14 p.m.	5.33 p.m.	.02	.18	.20	.31	.41										
Sept. 4	3.55 p.m.	4.45 p.m.	.82	3.59 p.m.	4.17 p.m.	.02	.24	.44	.65	.78										
Sept. 21	7.05 p.m.	9.40 p.m.	1.02	7.15 p.m.	7.55 p.m.	.01	.12	.24	.41	.57	.62	.67	.72	.78						
Nov. 1	8.25 a.m.	9.50 a.m.	.66	8.47 a.m.	9.15 a.m.	.02	.10	.17	.20	.28	.54	.61								
Cape Henry, Va.:																				
May 12	11.10 a.m.	2.04 p.m.	.49	12.21 p.m.	12.35 p.m.	.07	.19	.32	.37											
June 17	9.00 p.m.	9.48 p.m.	.59	9.16 p.m.	9.36 p.m.	.04	.23	.37	.42	.54										
June 30	3.10 p.m.	8.40 p.m.	1.84	3.51 p.m.	4.35 p.m.	.17	.17	.49	.69	.86	1.00	1.11	1.22	1.28	1.34					
July 10	7.53 p.m.	9.30 p.m.	.52	7.53 p.m.	8.10 p.m.	.00	.17	.31	.45	.49										
July 16	4.35 a.m.	6.12 a.m.	1.42	4.37 a.m.	4.57 a.m.	.01	.33	.69	.90	.98										
July 20	3.55 p.m.	9.35 p.m.	.75	4.02 p.m.	4.37 p.m.	.01	.10	.21	.30	.39	.46	.50	.56							
July 30 [4]	3.35 p.m.	6.30 p.m.	4.37	3.49 p.m.	5.04 p.m.	.01	.21	.36	.46	.59	.67	.76	.78	.84	1.15	1.85	2.95	4.26		
Aug. 3	1.05 p.m.	2.06 p.m.	1.25	1.13 p.m.	1.45 p.m.	.01	.30	.37	.38	.39	.67	1.14	1.20							
Aug. 13	3.39 p.m.	4.00 p.m.	.79	3.39 p.m.	3.53 p.m.	.00	.22	.65	.77											
Sept. 30 [4]	6.10 p.m.	11.10 p.m.	1.72	6.50 p.m.	7.15 p.m.	.01	.40	.64	.82	.90	.95									
Oct. 3	7.35 p.m.	9.40 p.m.	.63	7.45 p.m.	7.53 p.m.	.01	.21	.43												
Lynchburg, Va.:																				
Apr. 23	[2] 9.40 p.m.	2.30 a.m.	.65	1.20 a.m.	1.35 a.m.	.07	.14	.37	.50											
May 26	6.40 p.m.	9.05 p.m.	2.83	7.00 p.m.	8.29 p.m.	.02	.16	.35	.65	.93	1.10	1.26	1.38	1.58	1.67	1.81	2.06	2.49	2.73	
May 28	3.15 p.m.	4.15 p.m.	.58	3.33 p.m.	3.52 p.m.	.01	.06	.21	.47	.55										
July 9	6.40 p.m.	11.20 p.m.	1.68	7.05 p.m.	7.55 p.m.	.23	.05	.21	.38	.42	.52	.55	.58	.73	.95	1.05				
July 20	4.40 p.m.	5.15 p.m.	.56	4.49 p.m.	5.03 p.m.	.01	.21	.46	.54											
Norfolk, Va.:																				
Apr. 1	D. N. a.m.	9.30 a.m.	1.14	2.35 a.m.	2.45 a.m.	.05	.13	.31												
May 23	6.10 p.m.	6.55 p.m.	.53	6.27 p.m.	6.46 p.m.	.01	.13	.23	.43	.52										
Do	8.45 p.m.	9.35 p.m.	.58	8.45 p.m.	8.57 p.m.	.00	.14	.53	.57											
July 16	D. N. a.m.	7.55 a.m.	.85	4.43 a.m.	5.04 a.m.	.29	.06	.19	.34	.48	.51									
July 20	4.05 p.m.	6.05 p.m.	1.59	4.08 p.m.	5.03 p.m.	.01	.12	.35	.61	.64	.65	.68	.80	1.01	1.32	1.38	1.54			
Aug. 13	4.55 p.m.	6.50 p.m.	.61	5.04 p.m.	5.23 p.m.	.01	.18	.30	.45	.53										
Aug. 14-15	10.30 p.m.	D. N. a.m.	1.20	11.07 p.m.	12.06 a.m.	.07	.09	.20	.35	.42	.55	.64	.70	.75	.80	.85	.97			
Sept. 3	8.50 p.m.	9.30 p.m.	.68	8.52 p.m.	9.03 p.m.	.01	.32	.58	.62											
Richmond, Va.:																				
Mar. 9	7.50 p.m.	D. N. p.m.	.45	7.53 p.m.	8.00 p.m.	.01	.22	.34												
Apr. 8	6.25 p.m.	9.35 p.m.	.57	8.13 p.m.	8.27 p.m.	.13	.11	.34	.43											
June 30	2.25 p.m.	3.28 p.m.	.84	2.32 p.m.	2.50 p.m.	.02	.15	.37	.70	.75										
July 15	6.44 p.m.	8.45 p.m.	1.02	7.16 p.m.	7.37 p.m.	.11	.30	.66	.76	.82	.84									
Wytheville, Va.:																				
May 12	12.13 p.m.	1.55 p.m.	.81	1.28 p.m.	1.43 p.m.	.07	.53	.66	.72											
May 26	5.04 p.m.	7.22 p.m.	1.33	5.05 p.m.	5.55 p.m.	T.	.07	.16	.22	.30	.55	.82	.98	.99	1.02	1.15				
July 5	1.44 p.m.	2.18 p.m.	.40	1.50 p.m.	2.04 p.m.	.02	.14	.25	.37											
July 10	3.50 p.m.	4.55 p.m.	1.66	3.55 p.m.	4.45 p.m.	.01	.09	.10	.33	.58	.83	1.07	1.27	1.47	1.58	1.64				
Aug. 3	9.57 a.m.	1.45 p.m.	.91	10.01 a.m.	10.39 a.m.	T.	.14	.41	.42	.44	.46	.53	.68	.73						
Do	4.25 p.m.	7.35 p.m.	1.09	5.02 p.m.	5.31 p.m.	.03	.13	.17	.44	.72	.78	.84								
SOUTH ATLANTIC STATES.																				
Asheville, N. C.: [5]																				
June 4	2.10 p.m.	5.10 p.m.	1.05	2.35 p.m.	3.07 p.m.	.06	.06	.18	.35	.54	.73	.88	.92							
June 10	1.00 p.m.	3.20 p.m.	1.63	1.15 p.m.	2.00 p.m.	.01	.15	.31	.46	.65	.81	.98	1.26	1.34	1.50					
June 19	4.10 p.m.	6.30 p.m.	.77	4.46 p.m.	5.04 p.m.	.01	.26	.49	.62	.66										
July 13	5.50 p.m.	8.00 p.m.	.83	6.16 p.m.	6.36 p.m.	.01	.16	.33	.54	.69										
Charlotte, N. C.: [5]																				
July 2	7.25 p.m.	9.45 p.m.	1.53	8.35 p.m.	9.15 p.m.	.53	.21	.32	.39	.42	.43	.66	.89	.96						
July 12	2.11 p.m.	4.25 p.m.	1.95	2.14 p.m.	3.09 p.m.	.01	.16	.44	.64	.77	.84	.92	1.13	1.46	1.57	1.79	1.88			
Aug. 14	1.21 p.m.	2.25 p.m.	.66	1.50 p.m.	2.04 p.m.	.16	.14	.36	.46											
Sept. 9	4.13 p.m.	5.25 p.m.	1.05	4.22 p.m.	4.53 p.m.	.01	.12	.24	.54	.74	.88	.96	.99							
Hatteras, N. C.: [5]																				
May 29	4.11 p.m.	6.50 p.m.	1.45	4.32 p.m.	5.02 p.m.	.05	.10	.15	.26	.65	.76	.85								
Do	4.11 p.m.	6.50 p.m.	1.45	5.29 p.m.	5.45 p.m.	.95	.13	.28	.45	.49										
July 1	[2] 9.37 p.m.	7.30 a.m.	2.00	1.12 a.m.	1.33 a.m.	.98	.39	.42	.44	.52	.56									
July 2	D. N. a.m.	9.20 a.m.	1.22	2.44 a.m.	2.57 a.m.	.05	.40	.66	.75											
Aug. 17	D. N. a.m.	8.18 a.m.	1.46	6.23 a.m.	7.11 a.m.	.10	.25	.37	.43	.46	.63	.83	.96	1.04	1.20	1.31				
Sept 4	D. N. p.m.	[3] D. N. a.m.	1.56	9.33 p.m.	10.12 p.m.	.01	.16	.36	.66	.85	1.04	1.14	1.29	1.36						
Sept. 18	7.37 p.m.	9.40 p.m.	.91	7.37 p.m.	7.55 p.m.	.00	.36	.54	.65	.74										
Oct. 31	4.35 p.m.	[3] D. N. a.m.	3.50	9.42 p.m.	11.10 p.m.	.56	.09	.15	.19	.28	.36	.51	.61	.81	1.04	1.33	1.78	2.37	2.54	
Dec. 2	1.00 p.m.	3.45 p.m.	1.11	2.18 p.m.	2.33 p.m.	.35	.06	.18	.54											
Raleigh, N. C.: [5]																				
Mar. 28	3.00 p.m.	3.40 p.m.	.77	3.13 p.m.	3.34 p.m.	.02	.11	.26	.58	.64	.75									
Aug. 11	2.30 p.m.	3.05 p.m.	.50	2.33 p.m.	2.46 p.m.	.01	.29	.43	.48											
Sept. 30	3.28 p.m.	4.30 p.m.	.58	3.28 p.m.	3.47 p.m.	.00	.08	.19	.27	.56										
Dec. 18	D. N. a.m.	D. N. a.m.	.92	12.47 a.m.	1.15 a.m.	.10	.19	.27	.42	.58	.64	.69								

[2] On previous date. [3] On following date. [4] Defective record. [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 1921 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.
SOUTH ATLANTIC STATES—con.																				
Wilmington, N. C.:[5]																				
Apr. 15	7.58 a. m.	3.59 p. m.	2.56	11.56 a. m.	12.43 p. m.	0.77	0.06	0.20	0.35	0.43	0.64	0.79	0.90	1.02	1.13	1.17				
May 29	4.25 p. m.	5.24 p. m.	.96	4.56 p. m.	5.09 p. m.	.24	.33	.65	.72											
June 26	9.33 a. m.	10.16 a. m.	1.03	9.39 a. m.	10.00 a. m.	.01	.29	.48	.68	.96	1.02									
July 9	3.14 p. m.	3.55 p. m.	.63	3.19 p. m.	3.36 p. m.	.01	.31	.46	.57	.60										
July 10	12.48 a. m.	D. N. a. m.	1.41	12.51 a. m.	1.43 a. m.	.01	.14	.41	.52	.57	.62	.72	.80	.91	1.02	1.11	1.17			
July 14	2.45 a. m.	12.14 p. m.	1.27	3.32 a. m.	4.05 a. m.	.07	.11	.27	.43	.51	.53	.74	.82							
July 16–17	8.22 p. m.	D. N. a. m.	.77	11.51 p. m.	12.07 a. m.	.14	.10	.34	.49	.54										
July 20	3.28 p. m.	10.26 p. m.	1.75	3.39 p. m.	4.10 p. m.	.06	.12	.24	.34	.47	.67	.91	.96							
Aug. 28	[2] 8.30 p. m.	D. N. a. m.	1.06	12.42 a. m.	1.12 a. m.	.15	.08	.16	.21	.30	.38	.65								
Charleston, S. C.:[5]																				
May 12	D. N. a. m.	D. N. a. m.	.81	12.29 a. m.	12.44 a. m.	.04	.23	.60	.69											
May 13	D. N. a. m.	9.25 a. m.	2.63	7.01 a. m.	7.43 a. m.	1.31	.25	.40	.44	.65	.73	.81	.82	.93	.98					
July 4	D. N. a m.	D. N. a. m.	1.44	1.51 a. m.	2.32 a. m.	.06	.11	.26	.43	.61	.74	.93	1.16	1.30	1.33					
July 10	1.01 p. m.	7.38 p. m.	1.34	2.49 p. m.	3.09 p. m.	.20	.22	.42	.62	.82										
July 14	[2] D. N. p. m.	12.25 p. m.	7.55	12.24 a. m.	1.03 a. m.	.46	.11	.11	.13	.27	.39	.58	.66	.78						
				7.00 a. m.	7.50 a. m.	1.31	.14	.19	.22	.26	.30	.38	.49	.54	.62	.75				
				7.50 a. m.	8.40 a. m.		.82	.89	1.08	1.15	1.32	1.49	1.64	1.78	1.90	2.09				
				8.40 a. m.	9.30 a. m.		2.23	2.35	2.44	2.45	2.45	2.45	2.45	2.57	2.90	3.05				
Do	[2] D. N. p. m.	12.25 p. m.	7.55	9.30 a. m.	10.20 a. m.		3.17	3.32	3.46	3.64	3.74	3.85	3.96	4.16	4.26	4.33				
				10.20 a. m.	11.10 a. m.		4.41	4.47	4.52	4.54	4.56	4.62	4.75	4.76	4.81	4.88				
				11.10 a. m.	12.00 m.		4.89	4.92	5.02	5.11	5.25	5.34	5.45	5.62	5.97	6.10				
				12.00 m.	12.03 p. m.		6.23													
July 15	11.24 a. m.	2.45 p. m.	86	11.38 a. m.	11.57 a. m.	.04	.17	.41	.55	.60										
Aug. 4	3.00 p. m.	8.30 p. m.	3.01	3.40 p. m.	4.30 p. m.	.08	.18	.41	.67	1.05	1.40	1.83	2.17	2.37	2.51	2.58				
Sept. 1	4.44 p. m.	8.50 p. m.	1.33	4.46 p. m.	5.17 p. m.	.02	.15	.37	.60	.87	1.16	1.23	1.26							
Sept. 29	5.30 a. m.	6.30 a. m.	.86	5.32 a. m.	6.12 a. m.	.01	.10	.15	.35	.49	.56	.67	.71	.79						
Sept. 30	3.06 p. m.	5.10 p. m.	.90	3.59 p. m.	4.19 p. m.	.01	.26	.57	.76	.83										
Columbia, S. C.:[5]																				
May 11	2.10 a. m.	3.30 a. m.	.66	2.19 a. m.	2.32 a. m.	.01	.17	.43	.55											
June 19	4.50 p. m.	7.10 p. m.	1.04	4.53 p. m.	5.13 p. m.	.01	.34	.54	.75	.86										
July 6	11.40 a. m.	1.00 p. m.	.69	12.31 p. m.	12.47 p. m.	.03	.21	.47	.63	.66										
July 12	2.05 p. m.	2.43 p. m.	.72	2.13 p. m.	2.38 p. m.	.01	.12	.28	.41	.56	.71									
July 20	5.00 p. m.	6.00 p. m.	.67	5.04 p. m.	5.18 p. m.	.01	.15	.37	.56											
Aug. 4	1.20 p. m.	2.05 p. m.	.92	1.23 p. m.	1.56 p. m.	.02	.18	.32	.47	.70	.77	.83	.90							
Sept. 1	8.15 p. m.	10.00 p. m.	.88	8.51 p. m.	9.12 p. m.	.21	.20	.35	.49	.63	.66									
Due West, S. C.:[5]																				
Feb. 9	[2] 9.15 p. m.	D. N. a. m.	1.53	12.53 a. m.	2.05 a. m.	.13	.07	.17	.29	.52	.62	.66	.70	.74	.76	.84	.97	1.12		
May 10	10.17 p. m.	[3] 7.15 a. m.	.97	11.30 p. m.	11.47 p. m.	.05	.14	.23	.51	.58										
June 28	11.10 p. m.	D. N. p. m.	.59	11.14 p. m.	11.27 p. m.	.01	.26	.50	.56											
July 9	4.01 p. m.	6.03 p. m.	.56	4.07 p. m.	4.22 p. m.	.01	.15	.40	.52											
July 15	3.37 p. m.	5.15 p. m.	1.88	3.41 p. m.	4.57 p. m.	.01	.28	.62	.78	.79	.80	.80	.80	.93	.98	1.06	1.46	1.86		
July 22	D. N. a. m.	D. N. a. m.	.68	1.53 a. m.	2.10 a. m.	.02	.27	.48	.60	.64										
Aug. 8	7.45 p. m.	10.20 p. m.	1.50	8.25 p. m.	9.10 p. m.	.03	.14	.36	.64	.86	.94	1.02	1.11	1.17	1.23					
Aug. 15	11.29 a. m.	5.25 p. m.	1.16	11.45 a. m.	12.25 p. m.	.01	.15	.21	.35	.42	.48	.58	.73	.79						
Aug. 21	3.27 p. m.	5.17 p. m.	1.34	3.34 p. m.	4.24 p. m.	.01	.15	.29	.54	.74	.92	1.04	1.11	1.17	1.25	1.30				
Sept. 11	4.15 p. m.	5.45 p. m.	1.02	4.21 p. m.	5.05 p. m.	.03	.06	.12	.25	.39	.55	.59	.75	.90	.97					
Sept. 21	7.02 p. m.	10.00 p. m.	1.11	8.36 p. m.	8.48 p. m.	.63	.25	.41	.44											
Greenville, S. C.:[5]																				
Feb. 10	[2] 1.40 p. m.	11.00 a. m.	2.18	7.24 a. m.	8.05 a. m.	.68	.09	.17	.21	.27	.49	.70	.77	.88	.92					
May 26	1.56 p. m.	2.27 p. m.	.65	2.01 p. m.	2.21 p. m.	.01	.07	.34	.56	.63										
May 27	3.26 p. m.	5.10 p. m.	1.37	3.48 p. m.	4.50 p. m.	.10	.20	.29	.37	.38	.39	.40	.45	.66	.84	1.00	1.20	1.27		
June 24	1.45 p. m.	3.30 p. m.	.96	2.00 p. m.	2.39 p. m.	.01	.20	.32	.37	.52	.65	.80	.88	.95						
July 17	7.18 p. m.	9.30 p. m.	1.66	7.29 p. m.	8.08 p. m.	.02	.23	.56	.83	1.00	1.13	1.33	1.46	1.52						
Aug. 4	2.04 p. m.	2.53 p. m.	.68	2.24 p. m.	2.34 p. m.	.15	.19	.51												
Aug. 11	2.42 p. m.	5.00 p. m.	.87	2.51 p. m.	3.11 p. m.	.01	.26	.53	.75	.81										
Sept. 18	2.18 p. m.	3.30 p. m.	1.63	2.37 p. m.	3.13 p. m.	.02	.26	.44	.76	.99	1.20	1.41	1.55	1.58						
Sept. 20	3.35 p. m.	4.08 p. m.	.55	3.42 p. m.	3.57 p. m.	.01	.17	.39	.52											
Sept. 21	5.35 p. m.	6.45 p. m.	.73	5.38 p. m.	6.05 p. m.	.01	.10	.21	.39	.53	.65	.69								
Augusta, Ga.:[5]																				
June 15	4.15 p. m.	4.55 p. m.	1.18	4.20 p. m.	4.43 p. m.	.01	.20	.34	.63	1.06	1.14									
June 28	4.20 p. m.	5.30 p. m.	.67	4.30 p. m.	4.44 p. m.	.06	.14	.40	.59											
June 30	7.55 p. m.	8.55 p. m.	.85	7.58 p. m.	8.15 p. m.	.01	.19	.44	.56	.60										
July 21	D. N. a. m.	7.30 a. m.	.87	1.35 a. m.	2.05 a. m.	.01	.06	.24	.43	.61	.65	.73								
July 30	3.45 p. m.	4.15 p. m.	.92	3.48 p. m.	4.07 p. m.	.01	.31	.61	.82	.90										
Savannah, Ga.:[5]																				
Apr. 22	5.11 p. m.	10.20 p.m.	.86	5.30 p. m.	5.58 p. m.	.02	.21	.41	.48	.54	.59	.63								
May 13	2.54 p. m.	4.25 p. m.	1.01	3.11 p. m.	3.42 p. m.	.04	.14	.28	.59	.74	.85	.92	.95							
June 15	6.54 p. m.	[3] D. N. a. m.	.94	7.00 p. m.	7.15 p. m.	.01	.14	.35	.45											
June 27	10.28 p. m.	11.45 p. m.	.74	10.43 p. m.	10.58 p. m.	.05	.16	.35	.46											
June 28	7.10 p. m.	11.10 p. m.	1.57	7.58 p. m.	8.35 p. m.	.05	.22	.39	.60	.76	.93	1.13	1.23	1.27						
June 30	6.41 p. m.	8.30 p. m.	1.00	6.41 p. m.	7.24 p. m.	.00	.13	.27	.44	.50	.55	.58	.60	.75	.86					
July 2	1.32 p. m.	3.35 p. m.	1.61	1.37 p. m.	2.14 p. m.	.01	.22	.44	.57	.87	1.09	1.37	1.52	1.56						
July 10	4.00 p. m.	8.30 p. m.	2.88	4.53 p. m.	5.26 p. m.	.06	.14	.69	1.09	1.63	2.04	2.21	2.26							
July 12	2.53 p. m.	5.10 p. m.	1.27	3.31 p. m.	3.57 p. m.	.01	.18	.68	.98	1.10	1.20	1.21								
July 27	1.35 p. m.	10.10 p. m.	4.39	3.31 p. m.	5.04 p. m.	.32	.06	.12	.27	.33	.41	.52	.63	.78	.98	1.10	1.41	2.57	3.18	
Aug. 4	2.05 p. m.	6.04 p. m.	1.02	2.07 p. m.	2.39 p. m.	.01	.06	.15	.19	.35	.67	.76	.89							
Aug. 10	1.04 p. m.	4.55 p. m.	.68	1.21 p. m.	1.40 p. m.	.02	.19	.35	.46	.51										
Aug. 11	5.55 a. m.	9.40 a. m.	1.19	6.25 a. m.	7.10 a. m.	.03	.32	.57	.61	.64	.65	.69	.86	.89	.95					
Aug. 23	12.20 a. m.	5.46 a. m.	4.26	1.55 a. m.	3.50 a. m.	.61	.08	.13	.18	.23	.32	.39	.45	.48	.50	.53	.91	1.81	2.60	3.03
Sept. 9	12.10 p. m.	1.50 p. m.	1.35	12.29 p. m.	1.39 p. m.	.04	.13	.30	.38	.47	.50	.60	.69	.71	.72	.72	.90	1.31		
Jacksonville, Fla.:[5]																				
Apr. 22	7.20 p. m.	10.18 p. m.	.91	7.36 p. m.	8.07 p. m.	.01	.16	.41	.51	.58	.63	.70	.73							
May 29	4.15 p. m.	5.30 p. m.	1.08	4.25 p. m.	5.00 p. m.	.01	.19	.46	.66	.81	.87	.88	1.05							
June 29	3.06 p. m.	6.25 p. m.	1.45	3.10 p. m.	3.38 p. m.	.01	.31	.51	.89	1.14	1.23	1.28								
July 3	8.31 p. m.	9.33 p. m.	.71	8.34 p. m.	9.03 p. m.	.01	.11	.21	.35	.52	.59	.68								

[2] On previous date. [3] On following date. [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 1921 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.
SOUTH ATLANTIC STATES—con.																				
Jacksonville, Fla.—Continued.																				
July 21	12.47 p.m.	1.42 p.m.	0.61	12.54 p.m.	1.13 p.m.	0.01	0.13	0.37	0.52	0.59										
Aug. 4	5.50 p.m.	7.05 p.m.	1.18	6.06 p.m.	6.40 p.m.	.01	.20	.36	.60	.78	0.93	1.08	1.16							
Aug. 12	12.03 p.m.	1.45 p.m.	.97	1.04 p.m.	1.29 p.m.	.17	.15	.38	.56	.73	.79									
Aug. 15	6.17 p.m.	D.N. p.m.	.93	7.07 p.m.	7.39 p.m.	.05	.16	.33	.40	.48	.63	.72	.78							
Aug. 19	2.14 p.m.	4.20 p.m.	1.73	2.21 p.m.	2.50 p.m.	.02	.05	.12	.34	.66	.88	1.19								
Nov. 8	6.00 p.m.	D.N. p.m.	.90	6.17 p.m.	6.37 p.m.	.07	.15	.44	.67	.75										
FLORIDA PENINSULA.																				
Key West, Fla.:[5]																				
Jan. 9	9.42 a.m.	6.35 p.m.	1.52	3.38 p.m.	3.56 p.m.	.52	.19	.43	.54	.61										
Feb. 4	8.10 a.m.	11.20 a.m.	1.43	9.12 a.m.	9.32 a.m.	.31	.09	.18	.45	.57										
June 1	7.56 p.m.	D.N. p.m.	1.15	8.35 p.m.	8.59 p.m.	.28	.12	.35	.62	.80	.85									
July 2	6.50 a.m.	1.15 p.m.	1.31	7.56 a.m.	8.20 a.m.	.01	.23	.43	.74	1.05	1.11									
July 7	7.40 p.m.	D.N. p.m.	1.29	8.36 p.m.	9.06 p.m.	.19	.13	.24	.42	.49	.59	.79								
July 8	2.32 p.m.	3.05 p.m.	.42	2.45 p.m.	2.52 p.m.	.01	.26	.41												
July 24	9.25 a.m.	10.45 a.m.	.62	9.47 a.m.	10.07 a.m.	.05	.24	.44	.51	.56										
Aug. 26	D.N. a.m.	7.35 a.m.	2.22	3.07 a.m.	4.47 a.m.	.11	.31	.48	.53	.60	.67	.71	.78	0.83	0.91	0.99	1.09	1.21	1.98	
Sept. 13	7.30 p.m.	8.40 p.m.	1.46	7.47 p.m.	8.24 p.m.	.04	.10	.29	.59	.93	1.08	1.26	1.36	1.41						
Oct. 18	[2] 11.08 p.m.	D.N. a.m.	2.41	12.19 a.m.	1.24 a.m.	.10	.05	.16	.46	.80	.88	1.08	1.39	1.70	1.79	1.89	2.17	2.29		
Oct. 23	D.N. a.m.	8.20 a.m.	1.21	7.03 a.m.	7.45 a.m.	.18	.06	.18	.28	.39	.68	.87	.89	.98	1.02					
Miami, Fla.:[5]																				
Feb. 4-5	D.N. p.m.	D.N. a.m.	1.00	11.59 p.m.	12.21 a.m.	.02	.10	.34	.50	.77	.80									
Mar. 11	D.N. a.m.	D.N. a.m.	.71	3.34 a.m.	3.57 a.m.	.01	.13	.40	.52	.60	.67									
Do.	11.05 a.m.	5.58 p.m.	3.17	12.28 p.m.	1.28 p.m.	.07	.05	.13	.33	.53	.73	.83	.86	.98	1.23	1.40	1.62			
Apr. 18	11.40 a.m.	12.07 p.m.	.80	11.40 a.m.	12.02 p.m.	.00	.22	.52	.66	.76	.80									
Apr. 28	6.51 p.m.	D.N. p.m.	1.57	7.28 p.m.	8.16 p.m.	.15	.16	.24	.33	.45	.53	.67	.78	.84	.90	.95				
May 15-16	8.55 p.m.	D.N. a.m.	2.49	11.37 p.m.	12.15 a.m.	1.19	.05	.11	.25	.50	.64	.81	1.10	1.23						
May 21	8.01 p.m.	D.N. p.m.	1.44	9.09 p.m.	9.36 p.m.	.33	.11	.27	.55	.67	.79	.82								
July 27	7.54 a.m.	8.45 a.m.	.69	7.59 a.m.	8.23 a.m.	.01	.14	.34	.51	.61	.66									
Aug. 26	9.24 a.m.	11.12 a.m.	.73	9.30 a.m.	9.57 a.m.	.02	.13	.39	.48	.54	.63	.67								
Sept. 12	5.20 p.m.	9.55 p.m.	1.45	8.07 p.m.	8.51 p.m.	.40	.24	.27	.31	.40	.59	.65	.69	.82	.88					
Oct. 3	3.46 p.m.	4.33 p.m.	.72	3.57 p.m.	4.15 p.m.	.01	.11	.40	.61	.69										
Oct. 6	10.50 a.m.	8.05 p.m.	1.95	1.18 p.m.	1.48 p.m.	.32	.24	.44	.57	.70	.80	.88								
Oct. 7	8.14 a.m.	10.26 a.m.	1.26	8.21 a.m.	9.27 a.m.	.04	.13	.29	.35	.39	.47	.66	.75	.79	.85	.96	1.08	1.20		
Oct. 8	12.16 p.m.	12.45 p.m.	.61	12.18 p.m.	12.32 p.m.	.01	.11	.37	.57											
Oct. 9	D.N. a.m.	7.58 a.m.	.84	6.36 a.m.	7.03 a.m.	.19	.14	.29	.45	.52	.57	.61								
Oct. 22	D.N. a.m.	9.20 a.m.	1.43	5.19 a.m.	6.07 a.m.	.05	.26	.55	.64	.77	.91	.95	.98	1.02	1.13	1.23				
Tampa, Fla.:[5]																				
Apr. 23	D.N. a.m.	6.00 a.m.	1.96	4.13 a.m.	5.12 a.m.	.04	.08	.21	.51	.96	1.18	1.27	1.32	1.40	1.47	1.61	1.81			
May 15	D.N. a.m.	11.20 a.m.	2.56	5.50 a.m.	6.52 a.m.	.48	.06	.14	.19	.31	.40	.51	.62	.78	.99	1.06	1.20	1.36		
May 20	2.35 p.m.	5.25 p.m.	1.43	2.41 p.m.	3.02 p.m.	.01	.15	.50	.83	1.09	1.15									
May 21	4.20 p.m.	7.25 p.m.	1.46	6.46 p.m.	7.17 p.m.	.67	.09	.12	.24	.50	.63	.73	.77							
June 2	4.30 p.m.	5.45 p.m.	1.76	4.35 p.m.	5.26 p.m.	.04	.10	.27	.37	.58	.74	.88	1.22	1.40	1.59	1.69	1.72			
June 25	5.20 p.m.	6.20 p.m.	.87	5.34 p.m.	6.06 p.m.	.02	.24	.47	.60	.68	.74	.81	.83							
June 26	8.45 p.m.	10.15 p.m.	1.66	8.59 p.m.	9.38 p.m.	.04	.20	.61	.91	1.10	1.24	1.36	1.51	1.57						
July 1	1.35 p.m.	5.20 p.m.	1.27	1.35 p.m.	2.00 p.m.	.00	.25	.43	.64	.94	1.13									
July 2	12.35 p.m.	8.10 p.m.	1.02	1.50 p.m.	2.14 p.m.	.04	.18	.38	.49	.57	.62									
July 5	8.10 p.m.	[3] 7.22 a.m.	2.07	8.30 p.m.	8.57 p.m.	.02	.17	.41	.63	.71	.83	.88								
July 23	6.10 p.m.	8.15 p.m.	.96	6.51 p.m.	7.18 p.m.	.02	.10	.12	.25	.48	.65	.70								
Aug. 28	4.30 p.m.	7.00 p.m.	.91	4.59 p.m.	5.20 p.m.	.01	.11	.37	.57	.86	.88									
Oct. 17	4.45 p.m.	5.50 p.m.	.60	4.48 p.m.	5.07 p.m.	.01	.16	.35	.47	.56										
Oct. 25	[2] 3.20 p.m.	3.40 p.m.	6.48	5.37 a.m.	7.25 a.m.	2.67	.08	.13	.22	.29	.35	.43	.51	.59	.67	.69	.90	1.28	1.46	1.63
Nov. 25	1.35 p.m.	4.30 p.m.	1.02	3.39 p.m.	4.12 p.m.	.05	.19	.43	.63	.76	.86	.91	.95							
EAST GULF STATES.																				
Atlanta, Ga.:[5]																				
Feb. 7	5.15 p.m.	[3] D.N. a.m.	3.30	6.55 p.m.	7.50 p.m.	.21	.07	.21	.42	.52	.57	.67	.76	.81	.91	1.05	1.13			
June 15	4.45 p.m.	9.10 p.m.	1.10	5.44 p.m.	6.15 p.m.	.02	.17	.31	.47	.67	.79	.87	.90							
July 13	2.18 p.m.	4.58 p.m.	.78	2.21 p.m.	2.40 p.m.	.01	.13	.28	.55	.66										
Aug. 3	2.00 p.m.	2.12 p.m.	.46	2.00 p.m.	2.08 p.m.	.00	.42	.46												
Aug. 5	11.25 a.m.	2.40 p.m.	1.05	11.25 a.m.	11.51 a.m.	.00	.12	.35	.50	.65	.79	.84								
Aug. 24	1.18 p.m.	1.56 p.m.	.82	1.25 p.m.	1.47 p.m.	.01	.14	.27	.53	.77	.80									
Do.	2.13 p.m.	5.10 p.m.	2.38	2.20 p.m.	2.58 p.m.	.06	.16	.56	.96	1.48	1.80	2.02	2.11	2.14						
Nov. 16	D.N. a.m.	10.45 a.m.	.83	5.13 a.m.	5.33 a.m.	.10	.06	.18	.38	.60										
Do.	6.00 p.m.	9.15 p.m.	2.38	6.41 p.m.	7.21 p.m.	.01	.31	.63	.86	1.01	1.24	1.62	1.89	2.03						
Macon, Ga.:[5]																				
May 11	6.45 p.m.	9.35 p.m.	1.23	6.54 p.m.	7.51 p.m.	.02	.16	.31	.32	.32	.32	.34	.42	.61	.76	.89	1.03			
June 25	8.40 p.m.	[3] D.N. a.m.	1.46	10.04 p.m.	10.58 p.m.	.10	.06	.12	.15	.20	.25	.33	.51	.76	.95	1.10	1.20			
June 29	12.45 a.m.	2.45 a.m.	1.19	12.47 a.m.	1.27 a.m.	.01	.05	.10	.24	.42	.73	.95	1.01	1.07						
July 14	4.05 p.m.	6.08 p.m.	1.08	4.33 p.m.	5.16 p.m.	.08	.09	.14	.15	.20	.29	.55	.79	.88	.93					
July 24	5.08 p.m.	6.08 p.m.	.58	5.24 p.m.	5.37 p.m.	.02	.23	.41	.53											
Aug. 16	2.22 p.m.	4.07 p.m.	1.67	2.30 p.m.	3.15 p.m.	.02	.05	.19	.31	.37	.45	.60	.78	1.25	1.59					
Aug. 17	1.38 p.m.	2.23 p.m.	.80	1.41 p.m.	2.13 p.m.	.01	.08	.16	.28	.42	.67	.72	.77							
Aug. 18	4.52 p.m.	5.41 p.m.	.47	4.54 p.m.	5.04 p.m.	.01	.34	.41												
Nov. 27	12.10 a.m.	4.30 p.m.	2.79	2.57 a.m.	3.17 a.m.	.59	.14	.19	.41	.57										
Thomasville, Ga.:[5]																				
Mar. 31	2.25 p.m.	8.45 p.m.	1.80	2.50 p.m.	3.16 p.m.	.05	.24	.63	.64	.65	.81	.85								
Apr. 17	D.N. a.m.	6.46 a.m.	1.02	3.16 a.m.	3.58 a.m.	.17	.05	.15	.21	.24	.33	.37	.53	.77	.80					
Apr. 22	1.43 p.m.	6.35 p.m.	1.44	1.48 p.m.	2.13 p.m.	.01	.29	.54	.69	.78	.86									
June 3	6.42 p.m.	7.20 p.m.	.55	6.46 p.m.	7.02 p.m.	.01	.27	.43	.51	.53										
June 19	3.09 p.m.	3.35 p.m.																		
July 1	5.37 p.m.	7.25 p.m.	1.05	5.55 p.m.	6.29 p.m.	.01	.14	.29	.53	.71	.82	.96	1.01							
July 2	2.08 p.m.	3.18 p.m.	1.60	2.10 p.m.	2.35 p.m.	.01	.26	.64	1.12	1.40	1.52									

[2] On previous date. [3] On following date. [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 1921 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.
EAST GULF STATES—continued.																				
Thomasville, Ga.—Continued.																				
Aug. 5	4.00 p. m.	6.58 p. m.	1.17	5.11 p. m.	5.23 p. m.	0.46	0.24	0.42	0.46											
Aug. 30	3.40 p. m.	4.35 p. m.	.49	3.45 p. m.	3.54 p. m.	.02	.25	.46												
Pensacola, Fla.:[5]																				
Jan. 5	5.05 a. m.	5.40 a. m.	.69	5.12 a. m.	5.35 a. m.	.01	.19	.34	.44	0.60	0.67									
Feb. 5	5.15 a. m.	5.55 a. m.	1.09	5.18 a. m.	5.49 a. m.	.01	.12	.28	.36	.56	.79	1.03	1.08							
Mar. 9	9.45 a. m.	11.40 a. m.	1.84	10.04 a. m.	10.55 a. m.	.04	.15	.35	.78	1.05	1.20	1.34	1.38	1.45	1.59	1.66	1.76			
Mar. 12	8.50 a. m.	12.56 p. m.	2.55	8.54 a. m.	9.44 a. m.	.01	.06	.12	.20	.22	.33	.37	.38	.50	.54	.76				
				9.44 a. m.	10.34 a. m.		.87	.92	.94	1.09	1.10	1.15	1.20	1.35	1.46	1.70				
				10.34 a. m.	11.17 a. m.		1.79	1.92	2.02	2.05	2.11	2.15	2.30	2.35	2.43					
Mar. 14	5.00 a. m.	6.43 a. m.	.83	5.08 a. m.	5.31 a. m.	.01	.17	.39	.48	.53	.58									
July 16	6.00 a. m.	6.45 a. m.	.66	6.05 a. m.	6.21 a. m.	.01	.13	.48	.61	.64										
Do	12.35 p. m.	7.10 p. m.	1.01	12.47 p. m.	1.10 p. m.	.03	.15	.31	.48	.58	.62									
Aug. 6	10.39 a. m.	12.15 p. m.	1.46	11.26 a. m.	12.03 p. m.	.13	.07	.24	.51	.78	1.04	1.19	1.27	1.33						
Aug. 17	9.10 a. m.	9.30 a. m.	.47	9.13 a. m.	9.24 a. m.	.01	.15	.40	.45											
Oct. 2	7.50 p. m.	8.50 p. m.	.47	7.53 p. m.	8.05 p. m.	.01	.15	.30	.46											
Oct. 3	2.40 p. m.	3.15 p. m.	.98	2.40 p. m.	3.05 p. m.	.00	(7)	(7)	(7)	.89	.98									
Nov. 13	10.10 p. m.	11.10 p. m.	.66	10.16 p. m.	10.30 p. m.	.01	.27	.46	.53											
Dec. 1	7.15 p. m.	D. N. p. m.	1.23	8.08 p. m.	8.44 p. m.	.10	.26	.39	.47	.55	.61	.65	.71	.74						
Anniston, Ala.:[5]																				
Feb. 7	4.25 p. m.	[3] 3.00 a. m.	4.16	5.13 p. m.	6.27 p. m.	.13	.18	.41	.49	.58	.63	.69	.77	.83	.84	.88	1.04	1.58		
Feb. 7-8	4.25 p. m.	3.00 a. m.	4.16	11.59 p. m.	12.14 a. m.	2.65	.14	.74	1.00											
Apr. 16	7.27 a. m.	4.50 p. m.	2.15	10.37 a. m.	10.57 a. m.	.27	.18	.48	.65	.77										
May 11	2.12 p. m.	5.20 p. m.	1.69	2.28 p. m.	3.22 p. m.	.03	.17	.36	.68	.83	.90	1.04	1.14	1.26	1.37	1.40	1.51			
June 18	4.11 p. m.	4.50 p. m.	.72	4.15 p. m.	4.36 p. m.	.01	.19	.44	.55	.67	.70									
June 21	10.08 p. m.	10.35 p. m.	.85	10.10 p. m.	10.25 p. m.	.01	.25	.60	.81											
July 3	7.00 p. m.	7.30 p. m.	.56	7.08 p. m.	7.27 p. m.	.01	.19	.38	.49	.55										
Aug. 5	10.00 a. m.	11.20 a. m.	.74	10.04 a. m.	10.17 a. m.	.01	.27	.49	.59											
Sept. 21	4.09 p. m.	5.28 p. m.	1.00	4.09 p. m.	4.35 p. m.	.00	.15	.22	.29	.55	.86	.91								
Birmingham, Ala.:[5]																				
Feb. 7	2.43 p. m.	[3] D. N. a. m.	3.23	4.55 p. m.	5.54 p. m.	.59	.07	.15	.30	.37	.54	.63	.67	.70	.72	.92	1.07			
Do	2.43 p. m.	[3] D. N. a. m.	3.23	10.37 p. m.	10.54 p. m.	2.47	.32	.51	.61	.65										
Apr. 16	D. N. a. m.	2.30 p. m.	2.07	8.51 a. m.	9.02 a. m.	.63	.39	.48	.50											
June 19 [4]	2.07 p. m.	3.46 p. m.	.95	2.14 p. m.	2.35 p. m.	.01	.28	.48	.63	.74	.78									
July 9	3.59 p. m.	D. N. p. m.	1.42	4.20 p. m.	4.57 p. m.	.05	.12	.37	.59	.86	.92	.99	1.09	1.14						
July 17	3.23 p. m.	4.25 p. m.	.81	3.35 p. m.	3.51 p. m.	.03	.24	.48	.68	.75										
Aug. 3	1.24 p. m.	2.09 p. m.	.99	1.39 p. m.	1.56 p. m.	.01	.33	.70	.88	.97										
Aug. 12	2.16 p. m.	4.30 p. m.	.65	2.21 p. m.	2.34 p. m.	.01	.28	.50	.57											
Aug. 15	5.58 p. m.	D. N. p. m.	1.03	6.26 p. m.	6.45 p. m.	.18	.14	.37	.54	.60										
Sept. 8	1.15 p. m.	2.52 p. m.	.58	1.22 p. m.	1.40 p. m.	.01	.27	.40	.49	.56										
Sept. 25	7.11 p. m.	[3] D. N. a. m.	2.21	7.14 p. m.	7.49 p. m.	.01	.20	.41	.61	.76	.92	1.01	1.07							
Mobile, Ala.:[5]																				
Mar. 9	7.50 a. m.	9.30 a. m.	1.00	7.57 a. m.	8.11 a. m.	.01	.31	.54	.63											
Mar. 12	6.45 a. m.	9.50 a. m.	1.78	7.34 a. m.	8.01 a. m.	.04	.13	.44	.75	1.22	1.55	1.60								
Mar. 14	D. N. a. m.	6.46 a. m.	1.10	4.03 a. m.	4.21 a. m.	.17	.33	.52	.59	.65										
Do	8.47 a. m.	11.07 a. m.	1.22	8.58 a. m.	9.23 a. m.	.02	.11	.24	.53	.85	.96									
Mar. 31	8.12 a. m.	9.26 a. m.	.66	8.24 a. m.	8.48 a. m.	.02	.17	.35	.47	.54	.60									
Apr. 14	[2] 3.55 p. m.	D. N. a. m.	1.96	12.57 a. m.	2.12 a. m.	.56	.08	.18	.40	.51	.65	.68	.79	.84	.85	.86	1.00	1.28		
Apr. 22	D. N. a. m.	10.20 a. m.	1.27	5.41 a. m.	5.55 a. m.	.12	.47	.79	.85											
June 28	3.36 p. m.	5.05 p. m.	1.73	4.20 p. m.	4.51 p. m.	.02	.22	.58	.82	1.12	1.46	1.68	1.71							
June 30	1.30 p. m.	3.15 p. m.	1.64	1.35 p. m.	2.15 p. m.	.01	.12	.46	.93	1.12	1.17	1.23	1.29	1.35						
July 17	6.25 a. m.	11.50 a. m.	1.75	8.44 a. m.	9.38 a. m.	.14	.21	.42	.54	.60	.64	.69	.86	1.05	1.30	1.43	1.50			
Aug. 3	12.40 p. m.	1.45 p. m.	.51	12.44 p. m.	12.57 p. m.	.01	.31	.47	.50											
Aug. 6	1.15 p. m.	2.40 p. m.	1.08	1.43 p. m.	2.08 p. m.	.03	.14	.35	.57	.78	.96									
Aug. 8	5.35 p. m.	D. N. p. m.	1.82	5.43 p. m.	6.16 p. m.	.01	.15	.45	.73	1.11	1.37	1.52	1.58							
Aug. 13	1.50 p. m.	3.00 p. m.	.76	2.02 p. m.	2.20 p. m.	.01	.15	.33	.53	.68										
Aug. 30	3.15 p. m.	5.50 p. m.	.60	4.08 p. m.	4.17 p. m.	.02	.31	.41												
Nov. 13	8.18 a. m.	D. N. p. m.	2.79	8.15 p. m.	8.54 p. m.	1.10	.06	.19	.33	.53	.79	1.07	1.39	1.48						
Montgomery, Ala.:[5]																				
Feb 9	10.50 a. m.	[3] 5.50 a. m.	3.04	10.55 a. m.	11.41 a. m.	.03	.08	.18	.24	.30	.37	.51	.66	.82	.90	.92				
Mar. 16	3.40 p. m.	6.45 p. m.	.90	4.01 p. m.	4.21 p. m.	.05	.19	.41	.53	.59										
Mar. 17	5.30 p. m.	8.35 p. m.	.76	6.04 p. m.	6.14 p. m.	.03	.25	.51												
Apr. 16	12.33 p. m.	4.45 p. m.	1.62	12.33 p. m.	1.06 p. m.	.00	.06	.22	.37	.55	.66	.80	.86							
Apr. 25	4.37 p. m.	5.15 p. m.	.98	4.37 p. m.	4.50 p. m.	.00	.32	.87	.98											
June 15	1.00 p. m.	3.00 p. m.	2.79	1.09 p. m.	2.01 p. m.	.01	.24	.41	.51	.57	.64	.95	1.55	1.98	2.40	2.59	2.70			
July 3	4.55 p. m.	5.45 p. m.	.71	5.02 p. m.	5.21 p. m.	.01	.18	.34	.55	.67										
July 6	4.03 p. m.	5.00 p. m.	.96	4.05 p. m.	4.28 p. m.	.01	.15	.46	.76	.87	.92									
July 7	12.20 p. m.	4.30 p. m.	1.20	12.23 p. m.	1.07 p. m.	.01	.16	.27	.39	.48	.50	.57	.87	1.07	1.15					
July 13	1.24 p. m.	2.50 p. m.	1.53	1.33 p. m.	2.14 p. m.	.01	.19	.30	.46	.89	1.21	1.32	1.42	1.47	1.51					
Aug. 24	4.40 p. m.	7.35 p. m.	1.31	5.29 p. m.	6.09 p. m.	.04	.10	.22	.35	.47	.69	.93	1.08	1.16						
Sept. 16	12.35 p. m.	1.50 p. m.	1.36	12.56 p. m.	1.27 p. m.	.01	.08	.27	.58	.95	1.24	1.32	1.34							
Sept. 17	6.50 a. m.	9.25 a. m.	1.35	7.00 a. m.	7.52 a. m.	.01	.09	.19	.31	.49	.64	.80	.95	1.00	1.03	1.12	1.19			
Oct. 2	2.50 p. m.	3.55 p. m.	.50	3.00 p. m.	3.12 p. m.	.01	.15	.45	.48											
Nov. 8	8.20 p. m.	9.40 p. m.	.65	8.32 p. m.	8.53 p. m.	.03	.36	.46	.48	.57	.60									
Nov. 14	5.42 p. m.	7.20 p. m.	1.15	5.49 p. m.	6.09 p. m.	.02	.15	.54	.92	1.03										
Do	9.40 p. m.	[3] D. N. a. m.	1.54	10.01 p. m.	10.56 p. m.	.05	.15	.50	.78	1.02	1.05	1.05	1.15	1.26	1.26	1.29	1.49			
Nov. 19	6.46 a. m.	9.40 a. m.	1.17	7.59 a. m.	8.21 a. m.	.17	.30	.73	.80	.88	.94									
Meridian, Miss.:[5]																				
Mar. 23	7.05 p. m.	D. N. p. m.	.70	7.07 p. m.	7.25 p. m.	.01	.16	.33	.45	.50										
Mar. 31	D. N. a. m.	9.30 a. m.	2.04	5.01 a. m.	5.51 a. m.	.08	.08	.22	.32	.48	.61	.74	.84	.92	1.04	1.13				
Apr. 13	12.50 p. m.	D. N. p. m.	1.83	8.13 p. m.	8.58 p. m.	.22	.17	.28	.49	.66	.77	.83	.99	1.07	1.18					
Apr. 16	D. N. a. m.	12.45 p. m.	3.22	8.55 a. m.	10.17 a. m.	.97	.20	.39	.49	.59	.74	.87	.97	.99	1.12	1.33	1.59	1.96	1.99	
June 3	6.00 p. m.	D. N. p. m.	.90	6.04 p. m.	6.29 p. m.	.01	.16	.35	.56	.69	.79									
July 2	3.00 p. m.	4.00 p. m.	.67	3.09 p. m.	3.29 p. m.	.02	.07	.27	.40	.58										
July 18	4.35 p. m.	6.35 p. m.	1.26	4.49 p. m.	5.13 p. m.	.10	.27	.61	.82	1.00	1.07									
July 22	11.50 a. m.	12.35 p. m.	.76	12.00 noon.	12.24 p. m.	.01	.17	.44	.60	.66	.74									

[2] On previous date. [3] On following date. [4] Only the most important storms recorded. [7] No record.

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 1921 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.
EAST GULF STATES—continued.																				
Vicksburg, Miss.:[5]																				
Jan. 1	1.45 p.m.	5.15 p.m.	1.20	2.04 p.m.	2.37 p.m.	0.01	0.28	0.34	0.37	0.45	0.56	0.74	0.87							
Mar. 11	5.33 p.m.	D.N. p.m.	3.65	6.29 p.m.	7.39 p.m.	.11	.05	.25	.60	.80	.88	.96	1.03	1.08	1.10	1.17	1.38	1.53		
Do	5.33 p.m.	D.N. p.m.	3.65	8.45 p.m.	10.38 p.m.	1.68	.11	.20	.32	.42	.63	.70	.74	.77	.77	.98	1.05	1.37	1.52	1.96
Mar. 31	[2] 7.02 p.m.	7.20 a.m.	2.89	1.04 a.m.	2.04 a.m.	.85	.11	.31	.42	.50	.58	.63	.71	.73	.76	.85	.96			
Apr. 7	4.49 p.m.	[3] D.N. a.m.	1.47	10.23 p.m.	10.38 p.m.	.37	.15	.37	.46											
Apr. 13	7.10 a.m.	9.44 p.m.	1.47	4.25 p.m.	4.44 p.m.	.65	.38	.45	.54	.61										
Apr. 16	[2] 9.18 p.m.	6.35 a.m.	2.56	12.36 a.m.	12.58 a.m.	.02	.20	.50	.78	1.12	1.31									
Do	[2] 9.18 p.m.	6.35 a.m.	2.56	4.19 a.m.	4.34 a.m.	1.71	.23	.44	.55											
Apr. 21	4.02 p.m.	[3] D.N. a.m.	3.02	7.45 p.m.	7.56 p.m.	.68	.29	.59	.65											
Apr. 26	9.10 a.m.	10.50 a.m.	.74	9.22 a.m.	9.33 a.m.	.02	.42	.58	.63											
July 10	5.03 p.m.	5.48 p.m.	1.73	5.10 p.m.	5.44 p.m.	.01	.30	.57	1.07	1.48	1.49	1.58	1.71							
July 17	12.15 p.m.	1.30 p.m.	.62	12.40 p.m.	12.56 p.m.	.02	.10	.30	.54	.58										
Sept. 7	4.12 p.m.	8.25 p.m.	1.12	4.30 p.m.	5.01 p.m.	.01	.11	.29	.49	.59	.72	.89	.91							
Dec. 24	D.N. a.m.	10.50 a.m.	1.45	5.24 a.m.	6.05 a.m.	.13	.08	.14	.28	.45	.54	.61	.68	.76	.80					
New Orleans, La.:[5]																				
Mar. 12	7.17 a.m.	9.12 a.m.	1.02	7.55 a.m.	8.41 a.m.	.06	.07	.25	.33	.34	.47	.69	.74	.79	.87	.90				
Mar. 13	3.25 p.m.	5.45 p.m.	1.49	3.31 p.m.	4.03 p.m.	.03	.14	.18	.23	.52	.70	.98	1.09							
Mar. 28	9.49 a.m.	12.05 p.m.	.63	9.54 a.m.	10.09 a.m.	.03	.23	.36	.50											
Mar. 31	5.45 a.m.	6.50 a.m.	.60	5.47 a.m.	5.58 a.m.	.01	.31	.55	.58											
Apr. 8	D.N. a.m.	6.05 a.m.	.96	3.24 a.m.	3.43 a.m.	.10	.17	.44	.54	.61										
Apr. 26	6.08 p.m.	9.30 p.m.	1.59	6.25 a.m.	7.07 a.m.	.07	.09	.18	.21	.36	.51	.74	1.03	1.18	1.26					
June 3	D.N. a.m.	5.40 a.m.	.87	4.18 a.m.	4.30 a.m.	.19	.26	.57	.61											
June 8	11.25 a.m.	4.30 p.m.	1.82	11.30 a.m.	12.22 p.m.	.01	.13	.32	.59	.79	.97	1.14	1.22	1.34	1.48	1.56	1.63			
June 9	5.20 p.m.	D.N. p.m.	1.91	5.23 p.m.	7.03 p.m.	.01	.18	.54	.65	.81	.91	.96	1.02	1.06	1.12	1.19	1.32	1.47	1.78	
June 26	1.45 p.m.	2.55 p.m.	1.67	1.50 p.m.	2.23 p.m.	.02	.21	.41	.68	1.06	1.29	1.52	1.58							
June 28	2.51 p.m.	3.40 p.m.	2.03	2.53 p.m.	3.29 p.m.	.01	.31	.68	1.09	1.57	1.87	1.93	2.00	2.02						
July 18	8.08 a.m.	10.30 a.m.	1.26	8.10 a.m.	8.28 a.m.	.01	.37	.77	.90	.96										
July 22	D.N. a.m.	6.55 a.m.	1.86	4.19 a.m.	5.13 a.m.	.04	.07	.13	.36	.71	.90	1.00	1.05	1.08	1.12	1.16	1.41	1.46		
July 24	11.24 a.m.	12.45 p.m.	1.12	11.28 a.m.	11.49 a.m.	.01	.44	.68	.83	.90	.92									
Aug. 24	1.15 p.m.	2.10 p.m.	1.20	1.17 p.m.	1.57 p.m.	.01	.13	.30	.59	.69	.79	.83	1.12	1.19						
Aug. 31	11.46 a.m.	1.05 p.m.	.55	11.48 a.m.	12.03 p.m.	.01	.22	.41	.50											
Sept. 25	2.05 p.m.	2.37 p.m.	1.08	2.09 p.m.	2.34 p.m.	.01	.12	.45	.75	.97	1.06									
Oct. 28	9.40 p.m.	[3] D.N. a.m.	1.80	9.43 p.m.	10.38 p.m.	.01	.54	1.00	1.12	1.22	1.23	1.26	1.30	1.44	1.61	1.68	1.78			
Dec. 16	6.13 p.m.	8.15 p.m.	.68	7.13 p.m.	7.20 p.m.	.17	.46	.50												
WEST GULF STATES.																				
Shreveport, La.:[5]																				
Mar. 11	12.40 p.m.	4.20 p.m.	1.11	2.40 p.m.	2.55 p.m.	.35	.15	.50	.59											
Mar. 27	9.25 p.m.	[3] 7.30 a.m.	1.80	10.00 p.m.	10.30 p.m.	.12	.15	.37	.48	.56	.67	.72								
Apr. 6	4.00 p.m.	11.30 p.m.	1.02	8.47 p.m.	9.03 p.m.	.08	.24	.47	.53	.56										
Apr. 13	4.07 p.m.	4.40 p.m.	.74	4.16 p.m.	4.28 p.m.	.01	.38	.66	.72											
May 9	3.25 p.m.	10.30 p.m.	2.43	7.09 p.m.	7.59 p.m.	.33	.09	.25	.41	.57	.64	.66	.70	.73	.75	.79				
				7.59 p.m.	8.49 p.m.		.83	.86	.94	1.03	1.11	1.23	1.27	1.31	1.36	1.41				
				8.49 p.m.	9.22 p.m.		1.47	1.57	1.65	1.76	1.83	1.88	1.93							
May 29	4.50 p.m.	6.00 p.m.	.88	4.53 p.m.	5.11 p.m.	.01	.12	.34	.59	.67										
June 25	6.05 p.m.	6.40 p.m.	.60	6.07 p.m.	6.26 p.m.	.01	.25	.46	.54	.63										
July 21	D.N. a.m.	8.55 a.m.	1.49	12.57 a.m.	1.17 a.m.	.01	.15	.35	.47	.55										
Nov. 18	6.05 p.m.	[3] D.N. a.m.	1.31	6.22 p.m.	6.43 p.m.	.03	.17	.41	.67	.91	.93									
Fort Smith, Ark.:[5]																				
Apr. 25	3.37 p.m.	5.35 p.m.	1.05	3.38 p.m.	4.24 p.m.	.01	.13	.22	.30	.46	.58	.70	.80	.85	.91	.94				
June 9	11.36 a.m.	2.34 p.m.	.88	12.17 p.m.	12.36 p.m.	.10	.27	.47	.60	.68										
June 29	1.40 p.m.	7.00 p.m.	.83	1.49 p.m.	2.18 p.m.	.02	.19	.39	.51	.57	.61	.67								
July 15	3.14 p.m.	4.23 p.m.	.64	3.32 p.m.	3.47 p.m.	.03	.23	.46	.60											
July 19	3.29 p.m.	7.27 p.m.	2.12	4.42 p.m.	5.49 p.m.	.15	.18	.34	.49	.71	.93	1.04	1.08	1.15	1.26	1.45	1.73	1.94		
Aug. 12	2.11 p.m.	3.48 p.m.	1.27	2.40 p.m.	3.07 p.m.	.04	.28	.62	.80	.99	1.14	1.19								
Nov. 17	[2] 7.27 p.m.	5.42 a.m.	3.37	1.54 a.m.	3.54 a.m.	1.11	.12	.15	.16	.24	.32	.37	.46	.51	.53	.61	.68	.95	1.12	1.70
Little Rock, Ark.:[5]																				
Feb. 7	D.N. a.m.	4.00 p.m.	4.18	5.08 a.m.	6.32 a.m.	1.76	.08	.18	.32	.50	.66	.85	.99	1.04	1.08	1.21	1.38	1.69	1.88	
June 28	1.28 p.m.	3.05 p.m.	.75	1.46 p.m.	2.11 p.m.	.01	.11	.27	.41	.59	.73									
Aug. 4	9.45 p.m.	D.N. p.m.	1.71	9.51 p.m.	10.56 p.m.	.01	.14	.38	.46	.59	.71	.82	.98	1.05	1.06	1.14	1.54	1.65		
Aug. 11	6.35 p.m.	7.55 p.m.	1.05	7.19 p.m.	7.39 p.m.	.03	.13	.40	.80	.97										
Aug. 15	9.26 a.m.	2.50 p.m.	1.33	10.47 a.m.	11.10 a.m.	.18	.16	.37	.59	.76	.81									
Corpus Christi, Tex.:[5]																				
Jan. 31	7.07 a.m.	5.37 p.m.	1.58	8.42 a.m.	9.25 a.m.	.17	.10	.23	.41	.64	.76	.93	1.02	1.09	1.13					
May 29	5.28 a.m.	9.58 a.m.	1.60	6.57 a.m.	7.44 a.m.	.11	.21	.47	.68	.78	.85	.90	1.01	1.16	1.22	1.25				
June 9	7.33 p.m.	[3] 5.10 a.m.	2.52	8.03 p.m.	9.46 p.m.	.01	.13	.21	.32	.44	.63	.77	.86	.90	.98	1.07	1.18	1.73	2.05	2.23
Sept. 9	[2] 10.41 p.m.	7.10 a.m.	1.83	2.35 a.m.	3.43 a.m.	.53	.21	.30	.35	.41	.51	.55	.58	.58	.58	.69	.97	1.11		
Sept. 30	4.55 a.m.	10.58 a.m.	1.10	5.00 a.m.	5.20 a.m.	.01	.16	.35	.51	.60										
Dallas, Tex.:[5]																				
Apr. 21	8.05 a.m.	10.16 a.m.	1.21	8.07 a.m.	8.36 a.m.	.01	.08	.24	.57	.81	.95	1.05								
Apr. 29	3.50 a.m.	5.10 a.m.	.60	4.08 a.m.	4.27 a.m.	.01	.27	.36	.48	.55										
May 1	7.09 p.m.	8.37 p.m.	.81	7.28 p.m.	8.06 p.m.	.04	.21	.39	.45	.46	.46	.55	.65	.70						
Aug. 15	12.37 p.m.	1.18 p.m.	.55	12.38 p.m.	12.56 p.m.	.01	.17	.38	.49	.52										
Nov. 30	9.20 p.m.	[3] 6.07 a.m.	1.51	10.53 p.m.	11.18 p.m.	.05	.23	.57	.72	.82	.91									
Fort Worth, Tex.:[5]																				
Mar. 8	1.09 a.m.	D.N. a.m.	.97	1.10 a.m.	1.40 a.m.	.01	.06	.20	.37	.63	.72	.78								
Mar. 19	6.49 a.m.	9.50 a.m.	.94	7.24 a.m.	8.05 a.m.	.02	.13	.18	.24	.32	.42	.46	.52	.75	.79					
Galveston, Tex.:[5]																				
Mar. 30-31	10.25 p.m.	D.N. a.m.	2.23	11.17 p.m.	12.08 a.m.	.01	.19	.39	.68	.88	.98	1.11	1.26	1.31	1.38	1.46	1.52			
Apr. 21	D.N. p.m.	[3] D.N. a.m.	.55	11.25 p.m.	11.35 p.m.	.10	.22	.43												
May 9	7.04 p.m.	7.55 p.m.	1.90	7.09 p.m.	7.29 p.m.	.02	.29	.91	1.65	1.88										
June 22	12.19 a.m.	9.10 p.m.	.82	8.11 a.m.	8.19 a.m.	.30	.27	.40												
July 9	12.16 p.m.	1.12 p.m.	1.20	12.18 p.m.	12.56 p.m.	.01	.17	.33	.47	.60	.67	.89	1.04	1.13						

[2] On previous date. [3] On following date. [5] Only the most 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 1921 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.
WEST GULF STATES—continued.																				
Galveston, Tex.—Continued.																				
Sept. 8	2.57 p.m.	5.35 p.m.	0.98	4.56 p.m.	5.10 p.m.	0.35	0.13	0.43	0.60											
Sept. 28	D.N. a.m.	6.25 a.m.	1.07	5.12 a.m.	5.54 a.m.	.01	.10	.28	.40	0.60	0.69	0.76	0.82	0.93	1.00					
Do	6.54 a.m.	7.50 a.m.	.96	7.06 a.m.	7.26 a.m.	.01	.07	.41	.79	.90										
Sept. 29	12.45 p.m.	4.15 p.m.	2.02	1.26 p.m.	1.38 p.m.	.32	.31	.48	.52											
Do	12.45 p.m.	4.15 p.m.	2.02	2.58 p.m.	3.31 p.m.	1.14	.23	.26	.37	.40	.48	.73	.79							
Sept. 30	4.30 p.m.	10.05 p.m.	1.69	7.30 p.m.	7.56 p.m.	.73	.24	.46	.71	.80	.87	.89								
Oct. 1	D.N. a.m.	1.43 p.m.	3.11	7.05 a.m.	7.43 a.m.	.46	.05	.10	.22	.42	.64	.90	.97	1.00						
Nov. 30	2.19 p.m.	3.54 p.m.	1.33	2.36 p.m.	3.44 p.m.	.03	.20	.28	.38	.46	.51	.53	.60	.64	.69	0.80	1.19	1.30		
Groesbeck, Tex.:[5]																				
Mar. 8	4.30 a.m.	6.15 a.m.	.55	4.43 a.m.	4.57 a.m.	.02	.15	.29	.46											
Mar. 13	4.52 p.m.	6.50 p.m.	1.10	4.56 p.m.	5.26 p.m.	.01	.14	.23	.34	.58	.87	1.00								
Apr. 12	9.30 p.m.	[3]12.15 a.m.	1.16	10.41 p.m.	10.49 p.m.	.43	.32	.40												
Apr. 26	[2]11.00 p.m.	3.30 a.m.	2.10	12.00 mid.	12.27 a.m.	.12	.09	.33	.79	1.34	1.61	1.65								
Oct. 28	8.18 a.m.	8.58 a.m.	.62	8.21 a.m.	8.41 a.m.	.02	.12	.23	.45	.59										
Houston, Tex.:[5]																				
Mar. 30	4.42 p.m.	[3]D.N. a.m.	1.66	9.28 p.m.	10.05 p.m.	.26	.09	.19	.24	.42	.69	.81	1.16	1.22						
May 9	5.35 p.m.	6.50 p.m.	1.15	5.52 p.m.	6.12 p.m.	.01	.32	.67	.82	1.00										
June 22	D.N. a.m.	9.15 a.m.	3.03	6.40 a.m.	6.50 a.m.	.36	.49	.86												
Do	D.N. a.m.	9.15 a.m.	3.03	8.01 a.m.	9.01 a.m.	1.54	.25	.36	.45	.47	.70	.76	.85	.87	1.02	1.29	1.47			
Aug. 14	11.46 a.m.	1.55 p.m.	.73	12.16 p.m.	12.37 p.m.	.04	.22	.39	.49	.59	.64									
Sept. 7	7.20 a.m.	11.00 a.m.	.82	7.30 a.m.	8.00 a.m.	.01	.10	.19	.33	.51	.63	.69								
Sept. 27	7.30 a.m.	9.00 a.m.	.65	7.34 a.m.	7.44 a.m.	.01	.34	.51												
Palestine, Tex.:[6]																				
Mar. 8	10.51 a.m.	1.12 p.m.	.80	12.38 p.m.	12.55 p.m.	.29	.12	.39	.45	.50										
Mar. 27	6.40 p.m.	8.45 p.m.	1.40	6.56 p.m.	7.16 p.m.	.01	.29	.55	.84	1.06										
Apr. 21	8.22 a.m.	1.55 p.m.	1.00	10.31 a.m.	10.47 a.m.	.26	.14	.36	.48	.52										
Apr. 26	[2]D.N. p.m.	D.N. a.m.	1.24	1.06 a.m.	1.28 a.m.	.23	.23	.40	.56	.68	.71									
May 8	10.30 a.m.	D.N. p.m.	2.86	2.25 p.m.	4.06 p.m.	.37	.10	.16	.24	.28	.34	.43	.53	.94	1.25	1.34	1.37	1.57	2.23	2.32
May 9	3.35 p.m.	7.00 p.m.	3.55	4.20 p.m.	5.19 p.m.	.08	.09	.26	.55	.81	1.17	1.63	2.14	2.71	2.89	3.07	3.23			
June 2	10.04 p.m.	D.N. p.m.	.82	10.29 p.m.	10.54 p.m.	.07	.17	.25	.31	.52	.66									
June 9	D.N. a.m.	D.N. a.m.	1.32	12.05 a.m.	12.47 a.m.	.01	.14	.32	.37	.37	.38	.68	1.04	1.16	1.20					
June 20	6.10 p.m.	6.54 p.m.	.56	6.17 p.m.	6.32 p.m.	.01	.18	.37	.48											
June 21	D.N. a.m.	9.28 a.m.	1.99	6.18 a.m.	7.28 a.m.	.07	.09	.25	.42	.51	.52	.53	.54	.61	.70	.75	.99	1.36		
June 22	D.N. a.m.	9.45 a.m.	1.24	5.34 a.m.	5.53 a.m.	.03	.12	.50	.76	.88										
Do	12.11 p.m.	[2]D.N. a.m.	3.05	11.32 p.m.	11.58 p.m.	1.65	.11	.24	.43	.54	.62	.68								
Aug. 26	10.45 a.m.	2.15 p.m.	.81	10.47 a.m.	11.01 a.m.	.01	.31	.56	.72											
Dec. 1	[2]8.47 p.m.	7.12 a.m.	1.85	2.32 a.m.	3.10 a.m.	.28	.10	.37	.49	.56	.81	.92	.98	1.02						
Port Arthur, Tex.:[5]																				
Feb. 19	D.N. a.m	D.N. a.m.	.70	2.25 a.m.	2.36 a.m.	.08	.12	.45	.48											
Mar. 31	[2]8.48 p.m.	4.30 a.m.	2.21	12.29 a.m.	12.45 a.m.	.77	.41	.74	.85	.89										
Apr. 7	5.52 p.m.	11.09 p.m.	1.23	8.28 p.m.	9.07 p.m.	.26	.05	.17	.25	.39	.51	.58	.67	.75						
May 9	7.18 p.m.	8.50 p.m.	.88	7.26 p.m.	8.00 p.m.	.01	.11	.35	.53	.63	.70	.75	.80							
May 11-12	11.32 p.m.	D.N. a.m.	1.20	11.37 p.m.	12.01 a.m.	.02	.24	.72	.94	1.10	1.15									
June 9	1.39 p.m.	3.12 p.m.	1.35	1.52 p.m.	2.59 p.m.	.01	.09	.26	.39	.53	.75	.86	.90	.94	.98	1.02	1.09	1.34		
June 20	2.45 a.m.	5.50 a.m.	1.24	2.50 a.m.	3.29 a.m.	.01	.17	.30	.35	.43	.49	.62	.85	.98						
July 19	6.08 a.m.	11.45 a.m.	1.12	9.01 a.m.	9.37 a.m.	.13	.08	.18	.29	.49	.57	.69	.76	.79						
July 22	8.37 p.m.	D.N. p.m.	1.57	10.40 p.m.	11.26 p.m.	.02	.14	.35	.61	.75	.98	1.09	1.32	1.38	1.52	1.55				
July 25	10.26 a.m.	11.03 a.m.	.79	10.33 a.m.	11.02 a.m.	.01	.11	.18	.34	.62	.74	.78								
Aug. 9	10.30 a.m.	11.14 a.m.	.92	10.38 a.m.	11.01 a.m.	.01	.14	.48	.74	.85	.90									
Aug. 24	6.32 a.m.	7.40 a.m.	.66	6.41 a.m.	6.58 a.m.	.02	.12	.39	.60	.64										
Sept. 7	9.26 a.m.	9.20 p.m.	2.03	9.34 a.m.	10.07 a.m.	.02	.18	.53	.66	.77	1.14	1.22	1.29							
Sept. 8	6.14 p.m.	6.43 p.m.	.61	6.24 p.m.	6.40 p.m.	.05	.19	.39	.55	.56										
Sept. 12	1.39 p.m.	2.08 p.m.	.50	1.42 p.m.	2.00 p.m.	.01	.11	.25	.45	.48										
Sept. 26	10.24 a.m.	10.43 a.m.	.44	10.26 a.m.	10.37 a.m.	.01	.21	.40	.43											
Nov. 13	8.52 a.m.	11.17 a.m.	.96	9.52 a.m.	10.27 a.m.	.11	.18	.40	.52	.57	.59	.62	.80							
Nov. 30	3.05 p.m.	9.10 p.m.	2.51	4.50 p.m.	6.33 p.m.	.53	.15	.30	.39	.45	.50	.55	.60	.71	.79	.82	.98	1.36	1.83	1.95
San Antonio, Tex.:[5]																				
Mar. 1	D. N. a.m.	1.10 p.m.	2.14	8.21 a.m.	9.11 a.m.	.80	.05	.10	.19	.34	.44	.55	.67	.80	.93	.99				
Apr. 7	11.05 a.m.	3.35 p.m.	1.37	11.55 a.m.	12.20 p.m.	.02	.25	.63	.76	.85	.91									
May 1	D. N. a.m.	D. N. a.m.	.92	1.07 a.m.	1.34 a.m.	.12	.10	.15	.22	.39	.61	.67								
May 17	8.15 p.m.	D. N. p.m.	.59	9.01 p.m.	9.11 p.m.	.02	.39	.56												
June 12	5.10 a.m.	9.15 a.m.	1.43	5.16 a.m.	5.49 a.m.	.05	.08	.35	.60	.81	1.11	1.18	1.23							
June 25	5.23 p.m.	9.15 p.m.	1.52	7.02 p.m.	7.57 p.m.	.03	.09	.24	.31	.45	.70	.79	.99	1.14	1.28	1.35	1.46			
Sept. 9[4]	D. N. a.m.	D. N. p.m.	6.83	2.13 p.m.	2.30 p.m.	4.58	.08	.31	.62	.68										
Taylor, Tex.:[5]																				
Apr. 7	9.44 a.m.	4.00 p.m.	1.42	12.04 p.m.	12.48 p.m.	.11	.17	.22	.27	.40	.51	.59	.67	.80	.91					
Apr. 12	1.58 p.m.	D. N. p.m.	1.39	9.25 p.m.	10.18 p.m.	.19	.10	.16	.18	.21	.35	.47	.58	.68	.79	.87	1.00			
May 9	1.15 p.m.	4.30 p.m.	1.62	1.51 p.m.	2.44 p.m.	.07	.35	.37	.40	.48	.63	.91	1.10	1.15	1.20	1.28	1.38			
Aug. 29	2.52 p.m.	3.44 p.m.	.90	2.57 p.m.	3.21 p.m.	.01	.22	.52	.63	.80	.87									
Sept. 9	3.30 a.m.	[3]2.30 p.m.	23.98	6.42 p.m.	7.32 p.m.	2.44	.08	.22	.35	.51	.72	1.11	1.52	1.87	2.52	2.98				
				7.32 p.m.	8.22 p.m.		3.26	3.48	3.56	3.61	3.67	3.80	4.17	4.58	4.93	5.30				
				8.22 p.m.	9.12 p.m.		5.65	5.99	6.34	6.68	6.94	7.38	7.72	8.02	8.16	8.30				
				9.12 p.m.	9.47 p.m.[6]		8.48	8.64	8.83	9.09	9.31	1004	1042							
Sept. 10	[3]3.30 a.m.	2.30 p.m.	23.98		7.29 a.m.	(?)	.33	.65	.92	1.10	1.20									
OHIO VALLEY AND TENNESSEE.																				
Chattanooga, Tenn.:																				
Apr. 16	2.40 a.m.	4.02 p.m.	3.85	6.32 a.m.	7.02 a.m.	.25	.14	.42	.62	.72	.80	.87								
Do	2.40 a.m.	4.02 p.m.	3.85	8.28 a.m.	8.52 a.m.	1.51	.08	.20	.37	.52	.58									
May 11	1.47 p.m.	2.40 p.m.	.49	2.01 p.m.	2.16 p.m.	.03	.10	.19	.45											
May 21	9.06 a.m.	12.03 p.m.	1.95	9.11 a.m.	9.26 a.m.	T.	.28	.61	.69											
Do	9.06 a.m.	12.03 p.m.	1.95	10.03 a.m.	10.28 a.m.	.92	.13	.27	.35	.48	.56									
June 9	4.14 p.m.	6.10 p.m.	.77	4.19 p.m.	4.52 p.m.	.01	.13	.25	.36	.45	.52	.61	.67							

[2] On previous date.
[3] On following date.
[4] Defective record.
[5] Only the more important storms recorded.
[6] Tipping bucket flooded; excessive rate probably continued.

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 1921 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—con.																				
Chattanooga, Tenn.—Contd.																				
June 20	1.44 p.m.	2.59 p.m.	0.73	1.46 p.m.	2.06 p.m.	0.01	0.18	0.44	0.58	0.68										
July 2	1.37 p.m.	4.29 p.m.	1.28	1.39 p.m.	1.54 p.m.	T.	.26	.53	.65											
Do	1.37 p.m.	4.29 p.m.	1.28	3.15 p.m.	3.47 p.m.	.69	.14	.27	.34	.39	0.47	0.54	0.57							
July 9	1.22 p.m.	2.20 p.m.	.89	1.23 p.m.	1.56 p.m.	T.	.20	.24	.47	.60	.71	.78	.84							
Aug. 6	10.15 a.m.	12.45 p.m.	.57	10.48 a.m.	11.02 a.m.	T.	.11	.35	.45											
Aug. 7	12.10 p.m.	1.40 p.m.	.52	12.16 p.m.	12.34 p.m.	.04	.06	.14	.30	.43										
Sept. 17	6.20 p.m.	8.18 p.m.	1.27	6.36 p.m.	7.11 p.m.	.02	.24	.60	.90	.98	1.05	1.10	1.16							
Sept. 21	2.58 p.m.	6.07 p.m.	.76	3.08 p.m.	3.20 p.m.	T.	.34	.46	.49											
Sept. 25	6.12 p.m.	10.52 p.m.	.89	6.15 p.m.	6.30 p.m.	T.	.19	.27	.37											
Nov. 16	11.53 a.m.	6.50 p.m.	1.06	4.28 p.m.	4.35 p.m.	.32	.43	.48												
Knoxville, Tenn.:																				
Apr. 16	4.40 a.m.	4.45 p.m.	2.27	7.43 a.m.	7.56 a.m.	.30	.25	.30	.36											
May 13	7.07 p.m.	7.50 p.m.	.49	7.10 p.m.	7.20 p.m.	.01	.17	.46												
June 5	5.13 p.m.	6.55 p.m.	.50	5.42 p.m.	6.05 p.m.	.05	.12	.17	.27	.41	.45									
June 9	12.57 p.m.	2.40 p.m.	.60	12.57 p.m.	1.11 p.m.	.00	.20	.39	.45											
June 15	6.37 p.m.	D. N. p.m.	.67	6.37 p.m.	6.54 p.m.	.00	.16	.35	.44	.49										
June 18	11.01 a.m.	11.35 a.m.	.49	11.03 a.m.	11.17 a.m.	.01	.15	.42	.48											
June 19	12.40 p.m.	1.30 p.m.	.45	12.42 p.m.	12.53 p.m.	.01	.25	.40	.43											
July 9	1.07 p.m.	3.15 p.m.	.53	1.33 p.m.	1.44 p.m.	.06	.11	.39	.42											
July 15	6.06 p.m.	[3] D. N. a.m.	1.89	6.06 p.m.	6.30 p.m.	.00	.17	.41	.58	.76	.74									
July 20	D. N. a.m.	3.10 p.m.	2.15	1.04 p.m.	1.42 p.m.	1.34	.11	.22	.33	.45	.57	.67	.75	0.80						
Memphis, Tenn.:																				
Mar. 27	4.55 p.m.	[3] 6.00 a.m.	2.06	4.58 p.m.	5.42 p.m.	.01	.41	.48	.48	.50	.53	.57	.62	.74	0.86					
Apr. 7	8.12 a.m.	[3] D. N. a.m.	2.81	10.04 p.m.	10.17 p.m.	1.65	.13	.26	.35											
Apr. 15	2.43 p.m.	[3] D. N. a.m.	2.61	4.48 p.m.	5.14 p.m.	.57	.07	.16	.31	.55	.62	.66								
Apr. 16	[2] 2.43 p.m.	D. N. a.m.	2.61	1.39 a.m.	2.02 a.m.	1.92	.06	.22	.44	.63	.68									
Apr. 21	3.53 p.m.	[3] D. N. a.m.	1.32	9.57 p.m.	10.10 p.m.	.68	.29	.40	.45											
Apr. 26	1.07 p.m.	4.55 p.m.	1.14	1.29 p.m.	1.48 p.m.	.10	.14	.21	.34	.45										
July 6	5.09 p.m.	5.55 p.m.	1.14	5.14 p.m.	5.40 p.m.	.01	.22	.45	.73	.85	1.08	1.12								
July 18	5.10 p.m.	7.00 p.m.	.72	5.23 p.m.	5.45 p.m.	.02	.10	.23	.43	.64	.68									
July 31	4.45 p.m.	7.39 p.m.	.86	4.45 p.m.	5.04 p.m.	.00	.20	.42	.56	.63										
Aug. 3	9.07 a.m.	1.26 p.m.	1.03	9.56 a.m.	10.25 a.m.	.29	.14	.30	.33	.38	.42	.52								
Sept. 21	9.40 a.m.	12.38 p.m.	.95	9.51 a.m.	10.15 a.m.	.07	.16	.37	.46	.53	.64									
Oct. 2	7.40 p.m.	[3] D. N. a.m.	1.18	7.42 p.m.	8.01 p.m.	.01	.09	.31	.55	.75										
Nov. 17	7.45 a.m.	1.10 p.m.	1.30	9.53 a.m.	10.40 a.m.	.29	.19	.38	.42	.46	.52	.56	.56	.58	.77	0.87				
Nov. 18	9.32 p.m.	[3] 6.20 a.m.	.80	9.53 p.m.	10.01 p.m.	.01	.31	.36												
Dec. 23–24	D. N. p.m.	D. N. a.m.	1.03	11.50 p.m.	12.23 a.m.	.15	.10	.16	.22	.33	.43	.50	.56							
Nashville, Tenn.:																				
Feb. 8	6.50 p.m.	7.15 p.m.	.47	6.52 p.m.	7.05 p.m.	.01	.24	.39	.46											
May 10	2.02 p.m.	3.20 p.m.	.50	2.34 p.m.	2.44 p.m.	.12	.17	.34												
June 21	2.56 p.m.	3.35 p.m.	1.28	2.58 p.m.	3.21 p.m.	.01	.40	.81	1.13	1.16	1.22									
July 19	9.24 a.m.	2.55 p.m.	3.70	9.26 a.m.	11.05 a.m.	.01	.59	1.19	1.33	1.49	1.65	1.67	1.67	1.67	1.67	1.80	1.89	2.68	3.30	
Aug. 12	6.38 a.m.	8.30 a.m.	.69	7.18 a.m.	7.43 a.m.	.02	.15	.28	.39	.48	.55									
Oct. 3	D. N. a.m.	D. N. a.m.	.69	1.33 a.m.	1.49 a.m.	.07	.07	.26	.43	.46										
Nov. 16	1.27 p.m.	1.55 p.m.	.37	1.30 p.m.	1.42 p.m.	.01	.21	.30	.35											
Lexington, Ky.:																				
June 9	10.56 a.m.	3.03 p.m.	.68	12.21 p.m.	12.45 p.m.	.04	.05	.20	.33	.42	.47									
Aug. 14	D. N. a.m.	10.40 a.m.	1.36	3.03 a.m.	3.17 a.m.	.12	.10	.28	.44											
Do	12.39 p.m.	1.10 p.m.	.52	12.41 p.m.	12.59 p.m.	.01	.17	.28	.36	.45										
Aug. 20	3.15 p.m.	4.55 p.m.	.91	3.37 p.m.	3.56 p.m.	.10	.25	.48	.69	.76										
Sept. 5	2.31 p.m.	4.55 p.m.	.98	2.44 p.m.	3.31 p.m.	.03	.06	.15	.19	.24	.32	.45	.54	.62	.72	.76				
Sept. 27	[2] D. N. p.m.	D. N. a.m.	.92	2.25 a.m.	2.42 a.m.	.25	.24	.48	.58	.61										
Nov. 17	6.40 a.m.	3.05 p.m.	1.51	10.19 a.m.	10.36 a.m.	.96	.08	.17	.35	.40										
Louisville, Ky.:																				
Apr. 22	3.50 p.m.	5.05 p.m.	.74	4.02 p.m.	4.19 p.m.	.02	.36	.45	.53	.61										
Apr. 26	4.35 p.m.	5.25 p.m.	.50	4.48 p.m.	4.58 p.m.	.01	.20	.42												
May 26	8.24 a.m.	12.05 p.m.	.85	8.30 a.m.	8.40 a.m.	.01	.39	.63												
June 12	1.35 p.m.	1.52 p.m.	.60	1.37 p.m.	1.46 p.m.	.01	.37	.59												
June 19	4.45 p.m.	5.20 p.m.	.41	4.47 p.m.	5.01 p.m.	.01	.22	.34	.39											
Aug. 11	11.15 a.m.	7.45 p.m.	1.19	11.40 a.m.	11.54 a.m.	.01	.14	.43	.59											
Aug. 13	10.50 p.m.	[3] 5.40 a.m.	1.68	10.58 p.m.	11.17 p.m.	.01	.38	.53	.62	.70										
Aug. 14	[2] 10.50 p.m.	5.40 a.m.	1.68	3.50 a.m.	4.14 a.m.	.82	.22	.48	.55	.65	.73									
Aug. 20	2.00 p.m.	3.10 p.m.	.67	2.07 p.m.	2.22 p.m.	.01	.08	.30	.57											
Aug. 25	9.27 p.m.	10.15 p.m.	.42	9.29 p.m.	9.40 p.m.	.01	.19	.36	.39											
Sept. 10	2.25 p.m.	3.10 p.m.	.72	2.29 p.m.	2.38 p.m.	.01	.25	.67												
Sept. 21	8.10 a.m.	10.45 a.m.	.52	8.44 a.m.	9.04 a.m.	.06	.06	.22	.35	.43										
Sept. 23	6.33 p.m.	8.25 p.m.	.54	6.40 p.m.	6.55 p.m.	.01	.13	.38	.46											
Nov. 17	2.00 a.m.	11.00 a.m.	3.02	4.29 a.m.	6.15 a.m.	.17	.08	.15	.26	.32	.40	.56	.65	.71	.83	.96	1.23	1.60	1.97	2.10
Evansville, Ind.:																				
June 28	6.53 p.m.	7.15 p.m.	.47	6.56 p.m.	7.06 p.m.	.01	.25	.45												
June 30	3.35 p.m.	4.00 p.m.	.42	3.37 p.m.	3.51 p.m.	.01	.10	.29	.41											
July 4	8.10 p.m.	9.05 p.m.	.50	8.16 p.m.	8.35 p.m.	.01	.14	.29	.41	.45										
July 19	1.40 a.m.	2.40 a.m.	1.45	1.46 a.m.	2.19 a.m.	.01	.05	.31	.62	.96	1.24	1.36	1.39							
Aug. 7	1.00 a.m.	6.00 a.m.	2.08	1.06 a.m.	1.40 a.m.	.01	.44	.70	.96	1.33	1.59	1.65	1.72							
Aug. 14	12.10 a.m.	2.50 a.m.	.68	1.32 a.m.	1.52 a.m.	.05	.11	.24	.41	.53										
Sept. 23	3.45 a.m.	6.00 a.m.	1.02	4.00 a.m.	4.32 a.m.	.04	.09	.20	.34	.48	.57	.66	.71							
Nov. 17	1.15 a.m.	9.00 a.m.	2.05	3.23 a.m.	4.23 a.m.	.37	.06	.14	.26	.37	.54	.65	.72	.85	1.06	1.13	1.27			
Nov. 18	[2] 11.05 p.m.	2.15 p.m.	3.13	7.24 a.m.	8.50 a.m.	1.06	.18	.23	.34	.39	.46	.48	.52	.54	.60	.80	1.05	1.34	1.44	

[2] On previous date. [3] 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 1921 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—con.																				
Indianapolis, Ind.:																				
June 11	3.50 p. m.	5.10 p. m.	0.58	4.14 p. m.	4.37 p. m.	0.01	0.08	0.16	0.28	0.51	0.55									
June 21	1.08 p. m.	5.15 p. m.	.96	1.36 p. m.	1.57 p. m.	.01	.16	.53	.60	.71	.73									
Aug. 1 [4]	7.20 p. m.	[3] 4.15 a. m.	2.55	7.29 p. m.	9.05 p. m.	.04	.09	.34	.73	.90	.94	0.94	0.95	0.97	1.23	1.37	1.41	(7)	2.09	
Aug. 2	6.10 p. m.	[3] 12.15 a. m.	.61	11.05 p. m.	11.25 p. m.	.15	.05	.17	.25	.44										
Aug. 13	8.53 p. m.	[3] 4.10 a. m.	2.25	9.35 p. m.	10.48 p. m.	.01	.13	.43	.58	.63	.68	.72	.76	.78	1.03	1.31	1.58	1.97		
Sept. 2	5.27 p. m.	6.43 p. m.	.52	6.08 p. m.	6.26 p. m.	.06	.14	.32	.38	.44										
Sept. 3	D. N. a. m.	10.26 a. m.	1.78	7.31 a. m.	8.06 a. m.	.90	.09	.20	.23	.29	.39	.55	.66							
Sept. 6	1.30 a. m.	8.53 a. m.	1.16	3.18 a. m.	3.34 a. m.	.29	.13	.37	.52	.55										
Nov. 16	8.35 a. m.	3.44 p. m.	1.25	1.26 p. m.	1.51 p. m.	.35	.19	.43	.54	.59	.72									
Royal Center, Ind.:																				
Apr. 8	D. N. a. m.	10.25 a. m.	1.22	5.52 a. m.	6.07 a. m.	.21	.18	.42	.47											
June 1	10.06 a. m.	11.50 a. m.	1.03	10.26 a. m.	11.00 a. m.	.01	.12	.22	.28	.47	.66	.84	1.00							
Aug. 19	9.55 p. m.	[2] D. N. a. m.	1.54	10.01 p. m.	10.57 p. m.	.01	.10	.27	.51	.63	.71	.76	.80	.86	.89	1.02	1.14			
Terre Haute, Ind.:																				
May 26	D. N. a. m.	5.48 a. m.	1.04	1.16 a. m.	1.36 a. m.	.07	.17	.31	.44	.56										
June 22	2.02 p. m.	4.48 p. m.	1.29	2.54 p. m.	3.40 p. m.	.13	.26	.42	.53	.61	.69	.75	.84	.92	1.05	1.10				
June 24	7.00 p. m.	9.12 p. m.	1.33	7.41 p. m.	8.04 p. m.	.01	.20	.44	.73	.99	1.13									
July 28	12.12 p. m.	1.04 p. m.	.77	12.39 p. m.	12.55 p. m.	.03	.10	.43	.71	.74										
Do	1.28 p. m.	2.32 p. m.	.81	1.46 p. m.	2.01 p. m.	.04	.15	.49	.72											
Aug. 2	8.20 p. m.	D. N. p. m.	.51	9.22 p. m.	9.38 p. m.	.04	.13	.31	.45	.46										
Sept. 3	11.18 p. m.	[3] 9.04 a. m.	3.55	11.40 p. m.	11.59 p. m.	.11	.11	.27	.38	.49										
Sept. 4 [4]	[2] 11.18 p. m.	9.04 a. m.	3.55	12.31 a. m.	12.45 a. m.	.74	.18	.32	.39											
Do [4]	[2] 11.18 p. m.	9.04 a. m.	3.55	3.18 a. m.	3.39 a. m.	1.87	.17	.41	.60	.85	.90									
Sept. 5 [4]	4.50 p. m.	5.48 p. m.	1.22	4.50 p. m.	5.48 p. m.	.00	.10	.20	.30	.40	.56	.71	.81	.91	1.01	1.11	1.22			
Sept. 16	4.03 p. m.	4.40 p. m.	.76	4.26 p. m.	4.35 p. m.	.03	.50	.72												
Sept. 24	9.18 p. m.	[3] 6.28 a. m.	1.32	10.02 p. m.	10.10 p. m.	.01	.46	.53												
Sept. 29	7.45 p. m.	[2] D. N. a. m.	1.33	8.06 p. m.	8.29 p. m.	.08	.15	.35	.40	.53	.60									
Cincinnati, Ohio:																				
Mar. 6	11.30 p. m.	[2] D. N. a. m.	.86	11.38 p. m.	12.00 mid.	.01	.13	.23	.33	.43	.45									
June 3	4.24 p. m.	5.15 p. m.	.40	4.29 p. m.	4.39 p. m.	.04	.18	.34												
June 14	2.30 p. m.	3.14 p. m.	.57	2.43 p. m.	2.55 p. m.	.01	.22	.48	.56											
June 26	12.32 p. m.	5.16 p. m.	2.08	1.44 p. m.	2.06 p. m.	.26	.51	.92	1.30	1.41	1.43									
June 29	5.09 p. m.	5.46 p. m.	.52	5.16 p. m.	5.37 p. m.	.02	.05	.14	.29	.48	.50									
Aug. 2	4.26 p. m.	[2] D. N. a. m.	2.69	4.46 p. m.	5.28 p. m.	.03	.31	.42	.51	.54	.59	.86	.88	.98	1.02					
Aug. 3	[3] 4.26 p. m.	D. N. a. m.	2.69	2.43 a. m.	3.05 a. m.	2.18	.15	.32	.41	.48	.51									
Aug. 11	12.04 p. m.	5.30 p. m.	1.02	12.27 p. m.	12.51 p. m.	.01	.24	.42	.50	.56	.61									
Sept. 6	8.43 a. m.	10.30 a. m.	.52	8.49 a. m.	9.09 a. m.	.01	.13	.32	.40	.46										
Sept. 21	9.08 a. m.	10.41 a. m.	.41	9.15 a. m.	9.23 a. m.	.01	.21	.31												
Sept. 25	10.36 a. m.	11.34 a. m.	.63	10.50 a. m.	11.19 a. m.	.01	.14	.27	.41	.50	.53	.59								
Columbus, Ohio:																				
June 18	4.18 p. m.	[2] D. N. a. m.	1.28	5.41 p. m.	6.10 p. m.	.02	.15	.26	.33	.40	.47	.53								
July 26	3.30 p. m.	6.00 p. m.	.86	3.43 p. m.	4.15 p. m.	.02	.17	.38	.52	.63	.70	.75	.81							
Aug. 2	[2] 10.24 p. m.	7.10 a. m.	1.91	5.27 a. m.	5.46 a. m.	1.13	.24	.46	.65	.73										
Sept. 3	6.40 p. m.	D. N. p. m.	.49	8.42 p. m.	8.51 p. m.	.14	.10	.34												
Dayton, Ohio:																				
Mar. 26	5.20 a. m.	11.45 a. m.	1.07	6.46 a. m.	7.45 a. m.	.20	.06	.12	.18	.21	.27	.36	.41	.44	.47	.53	.80			
Aug. 2	[3] 7.20 p. m.	5.35 a. m.	1.47	4.47 a. m.	5.11 a. m.	.94	.21	.32	.35	.48	.53									
Sept. 2	3.10 p. m.	3.50 p. m.	.56	3.37 p. m.	3.47 p. m.	.01	.31	.54												
Sept. 3	6.40 a. m.	11.10 a. m.	.80	7.11 a. m.	7.38 a. m.	.03	.17	.25	.35	.42	.51	.59								
Nov. 16	11.35 a. m.	5.35 p. m.	1.24	2.58 p. m.	3.04 p. m.	.35	.25	.28												
Elkins, W. Va.:																				
May 25	6.50 p. m.	7.30 p. m.	.75	6.53 p. m.	7.08 p. m.	.01	.27	.57	.71											
June 13	6.44 p. m.	7.25 p. m.	.75	6.55 p. m.	7.17 p. m.	.04	.09	.32	.50	.63	.70									
June 18	1.35 p. m.	3.10 p. m.	1.26	1.37 p. m.	2.01 p. m.	.01	.20	.29	.52	.96	1.15									
June 23	5.23 p. m.	6.20 p. m.	.51	5.34 p. m.	5.52 p. m.	.03	.10	.25	.35	.43										
July 1	5.15 p. m.	5.55 p. m.	.68	5.34 p. m.	5.43 p. m.	.08	.38	.59												
July 8	5.20 p. m.	8.45 p. m.	.90	5.26 p. m.	5.47 p. m.	.01	.10	.16	.21	.62	.71									
July 19	4.55 p. m.	D. N. p. m.	1.10	5.26 p. m.	5.38 p. m.	.04	.17	.30	.36											
Aug. 2	6.30 a. m.	7.15 a. m.	.37	6.41 a. m.	6.50 a. m.	.01	.10	.33												
Aug. 3	[2] D. N. p. m.	2.00 p. m.	2.75	10.58 a. m.	11.38 a. m.	1.79	.09	.16	.24	.30	.38	.54	.66	.74						
Aug. 14	11.22 a. m.	2.20 p. m.	1.06	12.04 p. m.	12.30 p. m.	.19	.11	.35	.52	.57	.66	.71								
Aug. 31	12.40 p. m.	1.35 p. m.	.69	12.43 p. m.	12.59 p. m.	.01	.22	.46	.63	.66										
Sept. 6	5.35 p. m.	6.30 p. m.	.49	5.35 p. m.	5.46 p. m.	.00	.18	.36	.49											
Parkersburg, W. Va.:																				
May 23	5.45 p. m.	[3] 3.05 a. m.	2.14	6.41 p. m.	7.47 p. m.	.13	.06	.22	.35	.59	.70	.72	.75	.89	1.06	1.19	1.27	1.36		
June 18	4.25 p. m.	10.50 p. m.	2.65	5.36 p. m.	6.26 p. m.	.06	.27	.46	.49	.50	.51	.52	.76	.94	.95	.96				
				6.26 p. m.	7.16 p. m.		.96	.98	1.02	1.10	1.16	1.18	1.19	1.23	1.29	1.35				
				7.16 p. m.	7.58 p. m.		1.46	1.54	1.63	1.64	1.64	1.70	1.85	1.94	1.98					
July 9	2.17 p. m.	3.26 p. m.	.82	2.17 p. m.	2.39 p. m.	.00	.27	.51	.70	.78	.80									
July 10	10.16 p. m.	10.50 p. m.	.61	10.21 p. m.	10.33 p. m.	.01	.14	.40	.57											
Aug. 2	7.55 p. m.	[3] 8.58 a. m.	2.27	7.55 p. m.	8.08 p. m.	.00	.34	.56	.68											
Sept. 3	11.47 a. m.	1.40 p. m.	.59	12.13 p. m.	12.36 p. m.	.07	.18	.26	.35	.44	.47									
Sept. 9	3.10 p. m.	4.03 p. m.	.82	3.10 p. m.	3.45 p. m.	.00	.17	.28	.46	.50	.51	.65	.77							
Pittsburgh, Pa.:																				
May 25	12.30 a. m.	D. N. a. m.	1.09	2.24 a. m.	2.54 a. m.	.20	.08	.24	.32	.42	.51	.56								
June 22	6.24 p. m.	6.45 p. m.	.28	6.35 p. m.	6.42 p. m.	.01	.25	.27												
Do	9.00 p. m.	[2] D. N. a. m.	1.83	10.25 p. m.	11.30 p. m.	.10	.16	.24	.46	.50	.52	.52	.62	.77	.88	.98	1.26	1.47		
June 25-26	11.17 p. m.	D. N. a. m.	.97	11.30 p. m.	12.05 a. m.	.01	.07	.13	.20	.39	.56	.74	.84							
July 19	11.15 a. m.	2.30 p. m.	.74	1.13 p. m.	1.55 p. m.	.11	.09	.20	.32	.39	.44	.50	.55	.60	.62					
July 25	4.30 p. m.	4.50 p. m.	.92	4.30 p. m.	4.43 p. m.	.00	.50	.87	.92											
Sept. 21	D. N. a. m.	5.45 a. m.	1.38	4.58 a. m.	5.37 a. m.	.66	.08	.20	.25	.34	.46	.54	.63	.70						
Do	2.10 p. m.	3.00 p. m.	.45	2.10 p. m.	2.21 p. m.	.00	.13	.36	.42											

[2] On previous date. [3] On following date. [4] Defective record. [7] No record.

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 1921 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 3	6.35 a.m.	7.32 a.m.	0.43	7.05 a.m.	7.20 a.m.	0.05	0.07	0.20	0.35											
July 31	1.25 a.m.	D. N.a.m.	.49	1.26 a.m.	1.36 a.m.	.01	.30	.45												
Aug. 6	5.50 p.m.	8.20 p.m.	.44	7.38 p.m.	7.51 p.m.	.05	.09	.29	.37											
Sept. 21	12.40 p.m.	1.40 p.m.	.46	12.54 p.m.	1.12 p.m.	.01	.13	.22	.36	0.41										
Canton, N. Y.:																				
June 11	12.35 p.m.	2.30 p.m.	.82	1.06 p.m.	1.15 p.m.	.12	.15	.38												
July 18	6.42 p.m.	8.30 p.m.	.55	6.44 p.m.	6.59 p.m.	.01	.11	.24	.42											
Aug. 11	6.45 p.m.	[3] D.N.a.m.	1.87	9.53 p.m.	10.13 p.m.	.59	.13	.37	.48	.56										
Oswego, N. Y.:																				
July 18	4.50 p.m.	8.23 p.m.	1.16	7.41 p.m.	7.50 p.m.	.64	.19	.31												
Rochester, N. Y.:																				
July 29 [4]	12.50 p.m.	2.08 p.m.	1.11	12.55 p.m.	1.23 p.m.	.01	.29	.78	.84	.85	1.01	1.07								
July 30 [4]	4.00 p.m.	4.19 p.m.	.45	4.08 p.m.	4.18 p.m.	.01	.21	.44												
July 31	1.10 a.m.	3.30 a.m.	.72	2.43 a.m.	2.57 a.m.	.23	.12	.30	.41											
Sept. 25	9.50 a.m.	10.35 a.m.	.35	10.23 a.m.	10.28 a.m.	.07	.27													
Syracuse, N. Y.:																				
May 28	10.45 a.m.	11.15 a.m.	.61	10.45 a.m.	11.00 a.m.	.00	.33	.54	.60											
June 28	9.30 p.m.	D. N.p.m.	.60	9.47 p.m.	10.02 p.m.	.06	.15	.34	.46											
June 29	6.05 p.m.	8.00 p.m.	1.37	6.29 p.m.	7.11 p.m.	.01	.17	.44	.67	.79	.90	1.06	1.10	1.15	1.27	1.33				
July 10	4.02 p.m.	8.20 p.m.	.70	4.03 p.m.	4.18 p.m.	.01	.15	.34	.45											
July 19	12.35 p.m.	4.15 p.m.	.93	12.50 p.m.	1.28 p.m.	.14	.11	.26	.30	.32	.40	.66	.69							
Aug. 11	5.05 p.m.	5.40 p.m.	.74	5.05 p.m.	5.22 p.m.	.00	.32	.54	.68	.74										
Erie, Pa.:																				
June 27	7.12 a.m.	10.25 a.m.	1.46	8.08 a.m.	8.32 a.m	.02	.20	.61	.85	1.20	1.32									
June 28	[3] 10.50 p.m.	8.25 a.m.	1.54	7.07 a.m.	7.37 a.m.	.94	.11	.16	.21	.28	.39	.51								
July 12	12.02 p.m.	1.55 p.m.	.77	12.06 p.m.	12.26 p.m.	.01	.07	.22	.57	.74										
July 27	12.44 p.m.	2.45 p.m.	.88	12.55 p.m.	1.12 p.m.	.01	.07	.17	.39	.46										
Aug. 6	2.45 p.m.	7.36 p.m.	1.98	3.35 p.m.	4.01 p.m.	.09	.20	.46	.76	1.17	1.44	1.48								
Cleveland, Ohio:																				
May 24	9.56 p.m.	11.21 p.m.	.47	10.28 p.m.	10.40 p.m.	.05	.05	.26	.37											
May 28	4.15 a.m.	6.26 a.m.	.58	4.18 a.m.	4.38 a.m.	.01	.20	.32	.38	.44										
June 22	8.05 p.m.	8.51 p.m.	.46	8.08 p.m.	8.23 p.m.	.01	.06	.22	.35											
July 14	8.27 p.m.	11.30 p.m.	.98	8.54 p.m.	9.27 p.m.	.01	.23	.45	.59	.69	.75	.81	.85							
Aug. 6	4.37 p.m.	5.32 p.m.	.85	4.55 p.m.	5.21 p.m.	.06	.20	.55	.63	.70	.75	.79								
Aug. 30	9.16 p.m.	11.25 p.m.	.52	9.20 p.m.	9.30 p.m.	.01	.23	.37												
Sept. 21	9.38 a.m.	11.01 a.m.	.69	10.22 a.m.	10.38 a.m.	.10	.22	.47	.56	.59										
Sandusky, Ohio:																				
May 11	2.30 p.m.	5.30 p.m.	.77	3.03 p.m.	3.13 p.m.	.15	.16	.31												
May 24	9.10 p.m.	[3] D.N.a.m.	.48	11.26 p.m.	11.35 p.m.	.05	.20	.34												
June 25	9.00 p.m.	D. N.p.m.	.87	9.58 p.m.	10.27 p.m.	.02	.07	.24	.42	.61	.72	.78								
July 30	3.20 p.m.	4.20 p.m.	.78	3.23 p.m.	3.32 p.m.	T.	.43	.75												
Aug. 6	3.43 p.m.	4.15 p.m.	.49	3.45 p.m.	3.58 p.m.	.01	.23	.40	.48											
Sept. 11	12.45 p.m.	2.00 p.m.	.83	12.50 p.m.	1.08 p.m.	.01	.23	.39	.67	.78										
Sept. 17	D. N.a.m.	D. N.a.m.	.63	2.41 a.m.	2.57 a.m.	.01	.18	.31	.55	.58										
Sept. 25	D. N.a.m.	D. N.a.m.	1.33	12.51 a.m.	1.47 a.m.	.03	.19	.33	.43	.49	.56	.59	.63	.73	.89	1.06	1.16			
Toledo, Ohio:																				
May 12	3.12 p.m.	7.30 p.m.	.72	4.14 p.m.	4.29 p.m.	.15	.18	.32	.43											
May 27	9.55 a.m.	10.50 a.m.	.64	10.24 a.m.	10.42 a.m.	.07	.18	.36	.53	.57										
July 14	4.55 p.m.	7.12 p.m.	.64	5.17 p.m.	5.35 p.m.	.01	.18	.30	.45	.51										
July 19	3.12 p.m.	3.58 p.m.	.45	3.15 p.m.	3.30 p.m.	.01	.12	.29	.38											
Fort Wayne, Ind.:																				
May 31	7.04 p.m.	9.45 p.m.	.98	7.11 p.m.	7.36 p.m.	.01	.10	.29	.57	.73	.80									
June 18	12.55 p.m.	2.10 p.m.	1.00	1.02 p.m.	1.24 p.m.	.01	.26	.68	.85	.93	.95									
June 25	5.03 p.m.	6.10 p.m.	1.04	5.03 p.m.	5.33 p.m.	.00	.39	.62	.77	.85	.94	1.00								
Sept. 4	10.50 p.m.	[3] D.N.a.m.	.58	11.22 p.m.	11.52 p.m.	.01	.10	.20	.35	.41	.46	.55								
Detroit, Mich.:																				
May 27	9.02 p.m.	[3] D.N.a.m.	1.09	9.59 p.m.	10.14 p.m.	.19	.12	.27	.36											
June 21	1.20 p.m.	3.50 p.m.	1.14	2.15 p.m.	2.33 p.m.	.04	.34	.81	.96	1.01										
June 22	6.55 p.m.	8.40 p.m.	.72	7.22 p.m.	7.46 p.m.	.02	.06	.27	.48	.62	.68									
July 27	3.10 p.m.	4.45 p.m.	.57	3.12 p.m.	3.36 p.m.	.01	.10	.20	.31	.41	.54									
Aug. 17	7.30 p.m.	8.50 p.m.	.46	7.42 p.m.	7.52 p.m.	.01	.22	.40												
Aug. 30	6.15 p.m.	D. N.p.m.	.76	6.28 p.m.	6.38 p.m.	.02	.24	.45												
Sept. 10	8.00 p.m.	9.40 p.m.	1.37	8.06 p.m.	8.36 p.m.	.01	.44	.90	.97	1.02	1.07	1.16								
UPPER LAKE REGION.																				
Alpena, Mich.:																				
Mar. 19	6.10 a.m.	6.00 p.m.	1.00	7.09 a.m.	7.34 a.m.	.23	.08	.15	.32	.44	.51									
May 22	7.02 a.m.	9.20 a.m.	1.29	7.36 a.m.	8.20 a.m.	.19	.06	.12	.22	.29	.36	.37	.73	.82	.92					
Do	3.25 p.m.	4.05 p.m.	.46	3.30 p.m.	3.50 p.m.	.01	.04	.13	.36	.43										
July 7	7.00 p.m.	9.45 p.m.	.51	7.08 p.m.	7.13 p.m.	.01	.25													
July 8	2.30 p.m.	3.45 p.m.	.84	3.02 p.m.	3.27 p.m.	.05	.07	.29	.48	.68	.75									
July 18	2.15 p.m.	6.10 p.m.	.72	2.17 p.m.	2.36 p.m.	T.	.10	.36	.49	.54										
July 30	3.45 p.m.	4.30 p.m.	.53	3.55 p.m.	4.03 p.m.	.03	.30	.47												
Aug. 6	7.45 a.m.	10.45 a.m.	.68	7.54 a.m.	8.10 a.m.	.04	.11	.28	.35	.38										
Aug. 11	7.10 a.m.	11.45 a.m.	1.53	7.28 a.m.	8.06 a.m.	.07	.15	.24	.27	.37	.48	.56	.65	.68						
Sept. 29	7.10 p.m.	[3] 9.20 a.m.	1.85	8.24 p.m.	8.36 p.m.	.15	.23	.41	.46											
Escanaba, Mich.:																				
Aug. 26-27	5.50 p.m.	D. N.a.m.	3.39	10.31 p.m.	12.11 a.m.	.87	.13	.23	.34	.41	.57	.66	.74	.81	.85	.90	1.02	1.25	1.50	
Grand Haven, Mich.:																				
June 26	9.41 p.m.	[3] D.N.a.m.	.54	10.48 p.m.	11.13 p.m.	.01	.06	.10	.26	.40	.46									
June 28	D. N.a.m.	D. N.a.m.	.67	3.06 a.m.	3.21 a.m.	.06	.16	.35	.50											
Aug. 6	5.44 a.m.	7.08 a.m.	.63	6.15 a.m.	6.30 a.m.	.05	.17	.25	.41											
Aug. 17	6.40 a.m.	8.30 a.m.	.65	7.42 a.m.	7.59 a.m.	.04	.08	.34	.51	.57										
Aug. 26	9.45 p.m.	[3] 8.25 a.m.	1.11	11.27 p.m.	11.56 p.m.	.30	.11	.26	.32	.40	.50	.56								
Sept. 29	4.25 p.m.	6.30 p.m.	1.12	4.28 p.m.	5.00 p.m.	.01	.13	.31	.35	.40	.44	.73	.79							

[2] On previous date. [3] On following date. [4] Defective record

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 1921 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—con.																				
Grand Rapids, Mich.:																				
Apr. 25	1.18 p.m.	4.30 p.m.	0.69	1.47 p.m.	1.56 p.m.	0.14	0.14	0.31												
June 21	5.30 a.m.	6.40 a.m.	.40	5.53 a.m.	6.07 a.m.	.03	.15	.26	0.36											
June 27	6.40 a.m.	7.05 a.m.	.38	6.42 a.m.	6.55 a.m.	.01	.08	.26	.37											
Do	8.00 a.m.	9.00 a.m.	.43	8.02 a.m.	8.17 a.m.	.01	.19	.30	.40											
July 6	1.38 p.m.	3.40 p.m.	1.10	1.46 p.m.	2.25 p.m.	.01	.15	.17	.17	0.27	0.48	0.65	0.77	0.82						
July 27	10.35 a.m.	11.00 a.m.	.28	10.40 a.m.	10.45 a.m.	.01	.25													
Aug. 6	5.05 a.m.	6.05 a.m.	.70	5.10 a.m.	5.21 a.m.	.01	.30	.63	.65											
Aug. 27	[2] 10.20 p.m.	2.30 a.m.	2.17	12.31 a.m.	1.26 a.m.	.21	.09	.20	.35	.44	.58	.70	.90	1.05	1.31	1.45	1.55			
Sept. 4	8.41 p.m.	10.15 p.m.	.61	9.12 p.m.	9.32 p.m.	.01	.20	.36	.47	.55										
Sept. 29	6.11 p.m.	6.50 p.m.	.83	6.11 p.m.	6.39 p.m.	.00	.32	.46	.51	.57	.80	.83								
Houghton, Mich.:																				
Apr. 25	4.50 p.m.	[3] D.N.a.m.	1.69	4.54 p.m.	5.18 p.m.	T.	.30	.67	.93	1.16	1.26									
July 13	12.52 p.m.	1.50 p.m.	.56	1.25 p.m.	1.38 p.m.	.03	.15	.43	.53											
Do	2.55 p.m.	4.20 p.m.	.36	2.55 p.m.	2.58 p.m.	.00	.28													
July 26	2.20 p.m.	4.45 p.m.	.99	2.53 p.m.	3.07 p.m.	.02	.44	.74	.90											
Lansing, Mich.:																				
June 18	11.33 a.m.	5.20 p.m.	1.12	11.52 a.m.	12.04 p.m.	.06	.12	.40	.43											
Do	11.33 a.m.	5.20 p.m.	1.12	12.41 p.m.	1.09 p.m.	.53	.13	.20	.30	.41	.48	.53								
June 27	1.17 p.m.	2.40 p.m.	.60	1.24 p.m.	1.39 p.m.	.02	.17	.44	.56											
July 6	4.00 p.m.	5.40 p.m.	1.00	4.25 p.m.	5.13 p.m.	.04	.11	.25	.38	.39	.40	.43	.64	.74	.90	.95				
July 14	3.31 p.m.	4.00 p.m.	.76	3.31 p.m.	3.40 p.m.	.00	.40	.76												
Aug. 17	5.10 p.m.	5.37 p.m.	.92	5.16 p.m.	5.26 p.m.	.01	.66	.90												
Aug. 19	7.50 p.m.	D.N.p.m.	.63	7.55 p.m.	8.15 p.m.	.01	.06	.18	.29	.40										
Aug. 27	12.10 p.m.	3.15 p.m.	.70	1.58 p.m.	2.28 p.m.	.07	.11	.14	.16	.22	.45	.59								
Ludington, Mich.:																				
May 12	8.50 p.m.	D.N.p.m.	1.18	9.05 p.m.	10.15 p.m.	.02	.16	.29	.37	.41	.45	.46	.47	.53	.60	.66	.85	1.07		
July 24	9.50 p.m.	[3] D.N.a.m.	1.40	9.55 p.m.	10.13 p.m.	.01	.35	.79	1.06	1.15										
Aug. 26	4.30 p.m.	D.N.p.m.	2.88	9.10 p.m.	10.10 p.m.	.24	.14	.32	.64	.77	.90	1.27	1.45	1.62	2.03	2.28	2.50			
Sept. 20	D.N.a.m.	7.15 a.m.	1.92	2.47 a.m.	3.29 a.m.	.46	.06	.24	.45	.59	.70	.85	1.07	1.31	1.36					
Marquette, Mich.:																				
June 17	5.00 p.m.	10.30 p.m.	.51	6.57 p.m.	7.12 p.m.	.05	.19	.29	.41											
July 13	2.26 p.m.	3.25 p.m.	.84	2.30 p.m.	2.48 p.m.	.01	.11	.39	.63	.70										
Aug. 13	[2] 11.10 p.m.	12.19 p.m.	1.23	3.31 a.m.	3.55 a.m.	.10	.13	.26	.38	.61	.69									
Sept. 20	6.00 p.m.	[3] 2.00 a.m.	2.57	9.04 p.m.	10.53 p.m.	.19	.30	.44	.48	.50	.51	.66	.92	.98	1.01	1.02	1.03	1.34	1.99	2.23
Sept. 29	8.25 a.m.	9.12 a.m.	.48	8.30 a.m.	8.44 a.m.	.01	.14	.32	.41											
Port Huron, Mich.:																				
Apr. 21	7.19 p.m.	9.45 p.m.	1.12	7.56 p.m.	8.15 p.m.	.08	.09	.22	.36	.43										
May 28	12.49 p.m.	1.55 p.m.	.39	12.55 p.m.	1.06 p.m.	.01	.17	.34	.37											
Aug. 6	1.52 p.m.	3.30 p.m.	.72	1.57 p.m.	2.22 p.m.	.01	.14	.30	.46	.48	.62									
Aug. 30	3.10 p.m.	3.58 p.m.	.44	3.43 p.m.	3.52 p.m.	.02	.25	.42												
Saginaw, Mich.:																				
May 24	5.35 p.m.	8.59 p.m.	1.17	6.12 p.m.	6.30 p.m.	.05	.14	.51	.94	.98										
June 2	11.43 p.m.	11.54 p.m.	.30	11.45 p.m.	11.50 p.m.	.01	.29													
June 27	9.23 p.m.	[3] D.N.a.m.	1.83	9.50 p.m.	11.00 p.m.	.05	.11	.28	.44	.63	.67	.67	.69	.75	.90	.98	1.06	1.26		
July 18	5.52 p.m.	6.19 p.m.	.35	5.52 p.m.	6.03 p.m.	.00	.22	.30	.34											
Sept. 17	12.50 a.m.	5.45 a.m.	.52	1.23 a.m.	1.35 a.m.	.06	.15	.33	.37											
Sault Ste. Marie, Mich.:																				
July 7	2.50 p.m.	3.30 p.m.	1.11	2.57 p.m.	3.26 p.m.	.01	.15	.37	.70	.93	1.01	1.10								
July 13	1.45 p.m.	2.55 p.m.	.56	1.53 p.m.	2.05 p.m.	.01	.22	.49	.52											
Sept. 21	[2] 8.25 p.m.	D.N.a.m.	1.63	12.33 a.m.	12.57 a.m.	.44	.10	.23	.36	.44	.63									
Chicago University, Ill.:																				
Mar. 7	5.06 p.m.	5.44 p.m.	.48	5.25 p.m.	5.38 p.m.	.01	.12	.34	.46											
June 26	10.00 p.m.	[3] 12.34 a.m.	.80	10.07 p.m.	10.22 p.m.	.01	.12	.33	.39											
July 7	5.27 p.m.	7.40 p.m.	2.43	5.27 p.m.	6.01 p.m.	.00	.46	.85	1.10	1.51	1.72	2.03	2.20							
Aug. 19	7.20 p.m.	[3] 3.50 a.m.	1.77	8.09 p.m.	9.20 p.m.	.16	.22	.45	.55	.60	.65	.70	.75	.78	.85	.92	1.06	1.33		
Oct. 29	7.10 a.m.	9.05 a.m.	.53	7.29 a.m.	7.37 a.m.	.02	.16	.32												
Green Bay, Wis.:																				
Apr. 25	10.14 p.m.	[3] D.N.a.m.	.92	10.24 p.m.	10.49 p.m.	.04	.09	.11	.22	.32	.52									
July 18	9.35 a.m.	11.10 a.m.	.60	9.42 a.m.	9.51 a.m.	.01	.29	.39												
Aug. 10	2.40 a.m.	5.20 a.m.	1.04	2.49 a.m.	3.21 a.m.	.01	.05	.14	.26	.34	.64	.73	.76							
Aug. 19	2.21 p.m.	2.45 p.m.	.36	2.23 p.m.	2.34 p.m.	.01	.17	.32	.35											
Aug. 26	2.00 p.m.	4.35 p.m.	1.04	2.09 p.m.	2.34 p.m.	.03	.11	.21	.31	.43	.57									
Do	5.05 p.m.	6.45 p.m.	.56	5.10 p.m.	5.24 p.m.	.01	.06	.27	.41											
Do	7.15 p.m.	7.55 p.m.	1.05	7.22 p.m.	7.50 p.m.	.01	.32	.56	.74	.94	1.02	1.04								
Sept. 24	6.10 p.m.	8.15 p.m.	.49	6.28 p.m.	6.43 p.m.	.02	.16	.31	.37											
Milwaukee, Wis.:																				
July 7	2.52 p.m.	4.10 p.m.	.82	2.59 p.m.	3.24 p.m.	.01	.11	.17	.39	.57	.74									
Aug. 10	5.02 a.m.	7.37 a.m.	.70	5.09 a.m.	5.29 a.m.	.01	.11	.28	.35	.42										
Aug. 17	D.N.a.m.	7.15 a.m.	.72	5.28 a.m.	5.49 a.m.	.07	.13	.22	.28	.43	.46									
Aug. 19	4.46 p.m.	7.35 p.m.	.90	4.57 p.m.	5.21 p.m.	.02	.18	.45	.63	.70	.74									
Aug. 26	6.38 p.m.	D.N.p.m.	1.76	7.41 p.m.	8.01 p.m.	.12	.05	.32	.52	.62										
Do	6.38 p.m.	D.N.p.m.	1.76	9.06 p.m.	9.37 p.m.	.77	.07	.16	.43	.66	.82	.97	.99							
Aug. 30	12.25 p.m.	D.N.p.m.	1.30	2.36 p.m.	3.06 p.m.	.38	.09	.21	.26	.36	.41	.53								
Sept. 2	3.30 p.m.	4.38 p.m.	.42	3.32 p.m.	3.46 p.m.	.01	.06	.24	.36											
Sept. 9	7.03 a.m.	8.40 a.m.	.78	7.29 a.m.	7.48 a.m.	.06	.06	.21	.53	.68										
Sept. 11	1.35 a.m.	D.N.a.m.	.85	1.45 a.m.	2.06 a.m.	.05	.18	.30	.48	.53	.56									
Sept. 17	D.N.a.m.	D.N.a.m.	.67	1.29 a.m.	1.42 a.m.	.01	.13	.26	.36											
Sept. 24	3.52 a.m.	D.N.a.m.	.38	3.58 a.m.	4.06 a.m.	.01	.19	.34												

[2] On previous date. [3] 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 1921 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—con.																				
Duluth, Minn.:																				
June 26	7.05 p. m.	7.40 p. m.	0.53	7.09 p. m.	7.23 p. m.	0.01	0.13	0.32	0.48											
July 1	12.40 p. m.	1.35 p. m.	.58	12.59 p. m.	1.28 p. m.	.05	.07	.13	.31	0.42	0.47	0.52								
July 7	11.35 a. m.	11.50 a. m.	.29	11.43 a. m.	11.48 a. m.	.02	.27													
July 13	2.05 a. m.	4.20 a. m.	.82	2.19 a. m.	2.55 a. m.	.02	.07	.20	.24	.29	.40	.62	0.73	0.75						
July 26	7.05 p. m.	[3] D. N. a. m.	1.35	9.31 p. m.	9.54 p. m.	.18	.18	.22	.48	.69	.81									
Aug. 19	3.57 a. m.	D. N. a. m.	.91	4.02 a. m.	4.32 a. m.	.01	.07	.47	.68	.71	.80	.89								
Sept. 20	2.20 p. m.	4.20 p. m.	.90	3.15 p. m.	3.50 p. m.	.05	.09	.19	.30	.35	.51	.71	.78							
NORTH DAKOTA.																				
Moorhead, Minn.:																				
July 26	3.46 p. m.	4.44 p. m.	1.10	3.58 p. m.	4.24 p. m.	.02	.08	.27	.55	.75	1.00	1.05								
Aug. 25	6.25 p. m.	D. N. p. m.	2.35	6.25 p. m.	7.35 p. m.	.00	.15	.42	.88	1.26	1.41	1.48	1.53	1.57	1.66	1.75	1.87	2.09		
Bismarck, N. Dak.:																				
July 25–26	10.50 p. m.	D. N. a. m.	1.00	11.28 p. m.	12.03 a. m.	.02	.26	.44	.60	.73	.80	.90	.96							
Devils Lake, N. Dak.:																				
May 19	5.20 p. m.	5.45 p. m.	.52	5.22 p. m.	5.37 p. m.	.01	.06	.36	.51											
June 1	7.40 p. m.	8.25 p. m.	.33	7.43 p. m.	7.53 p. m.	.01	.22	.30												
June 14	D. N. a. m.	11.45 a. m.	1.57	8.13 a. m.	9.31 a. m.	.11	.10	.19	.27	.39	.52	.59	.74	.80	.85	.90	.99	1.20		
July 13	[2] D. N. p. m.	D. N. a. m.	1.00	12.08 a. m.	12.33 a. m.	.10	.12	.32	.44	.52	.57									
July 23	7.31 p. m.	7.50 p. m.	.32	7.33 p. m.	7.41 p. m.	.01	.27	.31												
Aug. 25	5.44 a. m.	9.00 a. m.	3.39	5.47 a. m.	6.49 a. m.	.01	.14	.33	.41	.56	.76	1.03	1.25	1.34	1.35	1.40	1.63	1.71		
Do	5.44 a. m.	9.00 a. m.	3.39	8.28 a. m.	8.53 a. m.	2.34	.22	.50	.69	.91	1.05									
Do	10.52 a. m.	11.55 a. m.	.87	10.54 a. m.	11.32 a. m.	.01	.05	.19	.27	.40	.56	.67	.80	.85						
Ellendale, N. Dak.:																				
June 15	3.26 a. m.	5.20 a. m.	.43	3.52 a. m.	4.02 a. m.	.01	.18	.34												
June 18	1.44 p. m.	3.15 p. m.	1.43	2.08 p. m.	2.52 p. m.	.03	.17	.74	.88	.90	.90	1.00	1.17	1.34	1.38					
July 2	9.06 p. m.	[3] 5.10 a. m.	2.32	9.18 p. m.	9.56 p. m.	.05	.14	.40	.88	1.51	1.73	1.82	1.89	1.93						
Aug. 16	9.13 p. m.	D. N. p. m.	.66	9.15 p. m.	9.36 p. m.	.01	.18	.36	.50	.62	.64									
Sept. 7	5.53 p. m.	D. N. p. m.	2.64	7.41 p. m.	8.51 p. m.	.32	.07	.21	.40	.52	.69	.74	.78	.90	.95	1.05	1.54	1.82		
Williston, N. Dak.:																				
June 14–15	10.50 p. m.	D. N. a. m.	1.28	11.59 p. m.	12.29 a. m.	.17	.10	.27	.55	.81	.97	1.07								
June 17	4.15 p. m.	[3] D. N. a. m.	1.70	5.04 p. m.	5.27 p. m.	.03	.15	.33	.51	.62	.67									
June 19	9.15 a. m.	12.08 p. m.	.64	11.44 a. m.	11.55 a. m.	.25	.13	.30	.35											
June 25	7.23 p. m.	[3] 12.15 a. m.	.89	7.29 p. m.	7.46 p. m.	.01	.13	.31	.49	.51										
UPPER MISSISSIPPI VALLEY.																				
Minneapolis, Minn.:																				
July 5	9.15 p. m.	D. N. p. m.	1.09	9.20 p. m.	9.51 p. m.	.01	.12	.30	.55	.69	.78	.92	.95							
Aug. 26	D. N. a. m.	D. N. a. m.	1.06	3.16 a. m.	3.43 a. m.	.01	.19	.38	.59	.68	.75	.78								
Sept. 13	1.02 p. m.	2.50 p. m.	1.26	1.07 p. m.	1.30 p. m.	.01	.14	.44	.81	1.00	1.05									
St. Paul, Minn.:																				
Mar. 26	8.41 p. m.	9.20 p. m.	.59	8.46 p. m.	9.13 p. m.	.01	.13	.35	.43	.48	.53	.57								
June 7	9.20 a. m.	10.20 a. m.	.41	10.03 a. m.	10.14 a. m.	.09	.17	.30	.31											
June 14 [4]	6.00 a. m.	8.30 a. m.	1.32	6.10 a. m.	6.57 a. m.	.01	(7)	(7)	(7)	(7)	(7)	.85	.94	1.04	1.13	1.17				
July 5	9.40 p. m.	[3] 12.45 a. m.	.53	9.42 p. m.	9.50 p. m.	.01	.24	.33												
July 7	9.23 a. m.	10.01 a. m.	.44	9.23 a. m.	9.35 a. m.	.00	.23	.39	.41											
Aug. 26	3.25 a. m.	6.38 a. m.	1.46	3.27 a. m.	3.57 a. m.	.01	.15	.33	.55	.81	.91	1.07								
Sept. 13	1.10 p. m.	3.25 p. m.	.74	1.20 p. m.	1.39 p. m.	.02	.11	.27	.38	.44										
La Crosse, Wis.:																				
Apr. 25	1.26 p. m.	2.45 p. m.	.69	1.58 p. m.	2.12 p. m.	.09	.21	.49	.55											
May 23	2.55 p. m.	6.35 p. m.	1.04	3.58 p. m.	4.17 p. m.	.05	.09	.22	.42	.48										
May 26	6.05 p. m.	7.56 p. m.	.95	6.44 p. m.	7.03 p. m.	.11	.14	.49	.68	.76										
June 14	6.00 a. m.	7.12 a. m.	.60	6.26 a. m.	6.45 a. m.	.02	.23	.43	.51	.56										
July 4	6.27 p. m.	7.20 p. m.	.57	6.35 p. m.	6.56 p. m.	.01	.24	.39	.44	.49	.52									
Sept. 10	2.40 a. m.	D. N. a. m.	.62	2.45 a. m.	3.09 a. m.	.01	.11	.22	.33	.44	.54									
Sept. 15	8.10 a. m.	1.05 p. m.	1.61	8.15 a. m.	8.32 a. m.	.01	.12	.26	.43	.49										
Do	8.10 a. m.	1.05 p. m.	1.61	10.27 a. m.	10.54 a. m.	.71	.07	.14	.29	.48	.56	.60								
Madison, Wis.:																				
May 23	5.25 p. m.	5.50 p. m.	.35	5.32 p. m.	5.39 p. m.	.01	.19	.34												
May 26	6.05 p. m.	6.40 p. m.	.32	6.14 p. m.	6.24 p. m.	.01	.15	.31												
Do	8.40 p. m.	10.20 p. m.	1.77	8.52 p. m.	9.40 p. m.	.04	.10	.24	.32	.50	.72	.99	1.20	1.38	1.59	1.72				
June 8	4.10 p. m.	7.40 p. m.	1.09	4.39 p. m.	5.10 p. m.	.02	.25	.41	.58	.64	.84	.98	1.01							
June 10	5.30 a. m.	6.45 a. m.	.57	6.18 a. m.	6.29 a. m.	.12	.18	.40	.45											
July 23	2.43 p. m.	6.30 p. m.	.88	2.51 p. m.	3.01 p. m.	.01	.25	.47												
Aug. 17	3.15 a. m.	4.50 a. m.	.46	3.52 a. m.	3.59 a. m.	.10	.20	.31												
Aug. 19	4.00 p. m.	5.43 p. m.	1.19	4.03 p. m.	4.37 p. m.	.01	.16	.16	.20	.50	.85	1.03	1.14							
Aug. 30	1.46 p. m.	7.50 p. m.	.93	2.08 p. m.	2.26 p. m.	.05	.24	.36	.53	.62										
Sept. 4	3.25 p. m.	3.44 p. m.	.54	3.28 p. m.	3.39 p. m.	.01	.31	.50	.53											
Do	4.03 p. m.	D. N. p. m.	.61	4.09 p. m.	4.19 p. m.	.02	.16	.30												
Sept. 9	1.45 p. m.	3.07 p. m.	.51	2.38 p. m.	2.58 p. m.	.06	.07	.14	.32	.44										
Sept. 16–17	11.15 p. m.	D. N. a. m.	1.62	11.32 p. m.	12.05 a. m.	.03	.19	.29	.37	.46	.51	.65	.71							
Sept. 20	8.35 p. m.	[2] 1.30 a. m.	1.02	10.18 p. m.	10.30 p. m.	.09	.19	.36	.42											
Wausau, Wis.:																				
June 12	3.47 p. m.	4.15 p. m.	.47	4.02 p. m.	4.12 p. m.	.08	.26	.39												
June 24	3.43 p. m.	4.13 p. m.	.54	3.48 p. m.	4.08 p. m.	.01	.12	.16	.35	.52										
June 27	6.20 p. m.	6.58 p. m.	.52	6.28 p. m.	6.47 p. m.	.03	.18	.32	.41	.47										
July 13	7.41 p. m.	10.05 p. m.	.61	7.42 p. m.	8.00 p. m.	T.	.08	.20	.36	.40										
Aug. 10	6.01 p. m.	7.05 p. m.	.67	6.08 p. m.	6.43 p. m.	.02	.13	.22	.24	.28	.38	.51	.59							

[2] On previous date. [3] On following date. [4] Defective record. [7] No record.

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 1921 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.																				
Charles City, Iowa:																				
Apr. 25	10.41 a. m.	1.27 p. m.	0.70	11.41 a. m.	11.58 a. m.	0.12	0.29	0.38	0.47	0.51										
May 26	3.57 p. m.	5.38 p. m.	1.08	4.27 p. m.	4.52 p. m.	.08	.19	.52	.74	.87	0.93									
June 26	4.10 p. m.	6.38 p. m.	.78	4.24 p. m.	4.50 p. m.	.02	.19	.38	.46	.53	.61	0.64								
July 7	5.27 a. m.	7.17 a. m.	1.22	5.28 a. m.	6.23 a. m.	.01	.22	.56	.64	.64	.65	.68	0.80	0.91	0.93	1.00	1.19			
Aug. 16	11.10 p. m.	[3] 3.00 a. m.	1.14	11.17 p. m.	11.52 p. m.	.03	.13	.27	.42	.43	.47	.72	.86							
Aug. 30	1.39 p. m.	3.10 p. m.	1.26	2.26 p. m.	2.47 p. m.	.03	.14	.45	.85	1.10	1.16									
Sept. 9	1.25 a. m.	2.05 a. m.	.51	1.48 a. m.	2.04 a. m.	.06	.07	.20	.44	.45										
Sept. 13	3.54 p. m.	5.48 p. m.	.91	4.07 p. m.	4.19 p. m.	.01	.37	.68	.75											
Sept. 20	6.36 p. m.	8.05 p. m.	.44	6.37 p. m.	6.49 p. m.	.01	.13	.29	.39											
Sept. 24	11.08 a. m.	5.35 p. m.	1.16	11.17 a. m.	11.37 a. m.	.03	.07	.22	.57	.66										
Davenport, Iowa:																				
May 9	6.42 p. m.	D. N. p. m.	.84	7.03 p. m.	7.21 p. m.	.01	.17	.29	.44	.49										
May 25	8.47 p. m.	[3] 5.00 a. m.	.91	8.47 p. m.	9.08 p. m.	.00	.10	.29	.51	.64	.67									
June 10	6.27 p. m.	7.05 p. m.	.50	6.27 p. m.	6.40 p. m.	.00	.25	.37	.44											
July 18	12.03 p. m.	3.25 p. m.	.79	12.11 p. m.	12.27 p. m.	.02	.19	.39	.52	.54										
July 27	10.30 a. m.	11.05 a. m.	.57	10.30 a. m.	10.46 a. m.	.00	.21	.30	.51	.55										
Aug. 1	10.15 a. m.	[3] 2.10 p. m.	4.21	5.38 p. m.	6.28 p. m.	1.02	.15	.23	.28	.36	.41	.44	.48	.57	.63	.79				
				6.28 p. m.	7.18 p. m.		.95	1.11	1.20	1.23	1.29	1.36	1.37	1.45	1.56	1.69				
				7.18 p. m.	7.57 p. m.		1.77	1.78	1.80	1.81	1.89	1.97	2.03	2.09						
Aug. 5	10.23 p. m.	[3] 1.00 a. m.	.88	10.23 p. m.	10.44 p. m.	.00	.08	.16	.27	.45	.49									
Sept. 10	1.40 a. m.	7.25 a. m.	1.03	1.50 a. m.	2.12 a. m.	.03	.20	.37	.45	.54	.61									
Sept. 11	12.30 a. m.	5.45 a. m.	.75	1.35 a. m.	1.46 a. m.	.35	.14	.32	.37											
Oct. 17	2.15 p. m.	7.50 p. m.	.90	2.41 p. m.	2.56 p. m.	.10	.10	.28	.39											
Des Moines, Iowa:																				
May 30	3.55 p. m.	4.52 p. m.	.49	4.00 p. m.	4.10 p. m.	T.	.32	.34												
June 1	3.41 p. m.	6.13 p. m.	.74	3.43 p. m.	3.52 p. m.	.01	.35	.47												
June 10	9.41 a. m.	10.22 a. m.	.40	9.44 a. m.	9.55 a. m.	.01	.23	.34	.37											
June 14	2.00 p. m.	5.20 p. m.	.71	2.34 p. m.	3.02 p. m.	.01	.06	.25	.40	.51	.56	.60								
June 25	1.47 a. m.	D. N. a. m.	.65	1.51 a. m.	2.07 a. m.	.03	.17	.32	.41	.44										
June 29	2.00 a. m.	D. N. a. m.	.91	2.06 a. m.	2.26 a. m.	.02	.25	.54	.71	.78										
Aug. 1	7.15 a. m.	10.10 a. m.	1.67	8.13 a. m.	9.16 a. m.	.05	.24	.36	.50	.58	.64	.71	.81	.95	1.03	1.20	1.45	1.57		
Do	3.22 p. m.	7.30 p. m.	.73	4.44 p. m.	5.06 p. m.	.05	.17	.29	.38	.48	.51									
Aug. 30	8.15 p. m.	[3] D. N. a. m.	1.76	8.46 p. m.	9.16 p. m.	.04	.17	.42	.61	.81	.87	1.00								
Sept. 10	[2] 7.55 p. m.	5.52 a. m.	1.58	12.33 a. m.	1.00 a. m.	.37	.12	.19	.31	.56	.76	.83								
Sept. 15	[2] 11.50 p. m.	6.10 a. m.	1.66	12.35 a. m.	12.55 a. m.	.05	.14	.38	.63	.86										
Sept. 16	D. N. a. m.	D. N. a. m.	1.70	1.33 a. m.	2.00 a. m.	.02	.18	.32	.36	.44	.79	.88								
Do	D. N. a. m.	D. N. a. m.	1.70	2.51 a. m.	3.15 a. m.	1.09	.09	.14	.28	.44	.50									
Sept. 19	7.10 a. m.	10.20 a. m.	.64	9.12 a. m.	9.35 a. m.	.14	.09	.21	.26	.34	.47									
Dubuque, Iowa:																				
May 25	6.37 p. m.	9.40 p. m.	.44	8.43 p. m.	8.58 p. m.	.03	.12	.24	.35											
June 8	D. N. a. m.	6.13 a. m.	1.01	3.09 a. m.	3.29 a. m.	.10	.23	.39	.52	.63										
June 27	12.30 a. m.	6.26 a. m.	.88	4.39 a. m.	4.59 a. m.	.44	.11	.16	.21	.40										
Do	7.45 a. m.	9.15 a. m.	.70	8.13 a. m.	8.40 a. m.	.05	.08	.21	.43	.53	.58	.62								
July 12	3.18 p. m.	4.27 p. m.	.77	3.45 p. m.	4.21 p. m.	.09	.16	.23	.30	.41	.49	.58	.63	.67						
July 18	9.37 a. m.	12.30 p. m.	.97	9.41 a. m.	9.56 a. m.	.01	.11	.29	.49											
Aug. 17	D. N. a. m.	D. N. a. m.	.74	2.37 a. m.	2.47 a. m.	.15	.42	.52												
Sept. 4	4.04 p. m.	8.05 p. m.	1.28	5.01 p. m.	5.31 p. m.	.19	.16	.42	.58	.72	.87	.97								
Sept. 13	6.48 p. m.	9.30 p. m.	1.22	7.23 p. m.	7.46 p. m.	.23	.09	.39	.61	.73	.77									
Sept. 24	5.53 p. m.	8.08 p. m.	.73	5.59 p. m.	6.30 p. m.	.01	.24	.33	.43	.48	.55	.60	.63							
Keokuk, Iowa:																				
Apr. 25	4.28 p. m.	9.35 p. m.	.86	4.44 p. m.	5.01 p. m.	.01	.35	.51	.54	.61										
May 26	3.04 p. m.	5.10 p. m.	.54	3.26 p. m.	3.42 p. m.	.01	.09	.24	.42	.45										
June 24	4.50 a. m.	8.19 a. m.	1.12	6.27 a. m.	6.49 a. m.	.28	.12	.19	.30	.37	.45									
Aug. 13	6.19 p. m.	7.34 p. m.	.98	6.30 p. m.	7.15 p. m.	.01	.09	.11	.18	.27	.42	.55	.72	.85	.96					
Sept. 4	5.19 p. m.	7.15 p. m.	1.51	5.25 p. m.	6.20 p. m.	.01	.08	.14	.17	.37	.40	.47	.89	1.12	1.22	1.33	1.45			
Sept. 9	8.28 a. m.	11.19 a. m.	1.14	8.51 a. m.	9.03 a. m.	.22	.32	.41	.44											
Sept. 11	D. N. a. m.	D. N. a. m.	.70	2.02 a. m.	2.17 a. m.	.01	.11	.41	.57											
Sept. 15	D. N. a. m.	6.28 a. m.	.90	5.17 a. m.	5.42 a. m.	.37	.16	.27	.35	.41	.47									
Sept. 20	10.02 p. m.	[3] D. N. a. m.	.80	10.33 p. m.	10.46 p. m.	.15	.28	.40	.44											
Oct. 17	5.06 p. m.	7.48 p. m.	.83	5.24 p. m.	5.37 p. m.	.04	.21	.30	.38											
Cairo, Ill.:																				
Aug. 6	3.25 a. m.	D. N. a. m.	.59	4.14 a. m.	4.36 a. m.	.04	.10	.24	.37	.47	.52									
Do	1.20 p. m.	2.23 p. m.	1.22	1.26 p. m.	1.55 p. m.	.01	.10	.30	.67	.94	1.14	1.19								
Aug. 14	5.21 a. m.	10.43 a. m.	1.24	8.22 a. m.	8.34 a. m.	.44	.23	.33	.35											
Sept. 5	3.25 p. m.	4.44 p. m.	.54	3.59 p. m.	4.14 p. m.	.04	.15	.34	.46											
Do	6.02 p. m.	9.15 p. m.	1.09	6.21 p. m.	6.43 p. m.	.01	.18	.45	.67	.82	.86									
Sept. 23	12.12 p. m.	5.03 p. m.	1.57	12.17 p. m.	12.30 p. m.	.01	.33	.55	.64											
Nov. 18	[2] 8.31 p. m.	10.58 a. m.	4.13	4.04 a. m.	4.23 a. m.	1.22	.10	.50	.86	1.00										
Do	[2] 8.31 p. m.	10.58 a. m.	4.13	5.50 a. m.	6.46 a. m.	2.75	.12	.26	.40	.48	.54	.55	.57	.67	.81	1.04	1.13			
Nov. 26	5.07 p. m.	[3] D. N. a. m.	2.86	7.08 p. m.	8.17 p. m.	.24	.10	.19	.25	.42	.51	.58	.67	.81	1.01	1.18	1.29	1.62		
Dec. 23	7.05 p. m.	[3] D. N. a. m.	1.34	9.01 p. m.	9.35 p. m.	.13	.12	.21	.27	.36	.51	.56	.62							
Peoria, Ill.:																				
May 26	11.40 p. m.	2.25 a. m.	.60	12.39 a. m.	12.53 a. m.	.13	.22	.38	.44											
Do	5.07 p. m.	7.18 p. m.	.61	5.07 p. m.	5.21 p. m.	.00	.25	.41	.46											
June 25	4.17 p. m.	4.41 p. m.	.36	4.21 p. m.	4.27 p. m.	.01	.28	.34												
July 14	12.09 p. m.	2.28 p. m.	1.14	12.09 p. m.	12.40 p. m.	.00	.43	.67	.75	.82	.98	1.05	1.06							
July 18	1.14 p. m.	2.37 p. m.	1.00	1.48 p. m.	2.07 p. m.	.12	.19	.38	.76	.86										
Aug. 11	3.35 a. m.	8.38 a. m.	1.19	7.22 a. m.	7.55 a. m.	.38	.09	.12	.18	.31	.48	.61	.66							
Sept. 3	5.32 a. m.	7.24 a. m.	.55	6.27 a. m.	6.45 a. m.	.02	.08	.26	.42	.49										
Sept. 11	4.05 a. m.	5.44 a. m.	.58	4.05 a. m.	4.13 a. m.	.00	.29	.34												
Springfield, Ill.:																				
Apr. 26	12.55 p. m.	2.52 p. m.	.63	1.10 p. m.	1.27 p. m.	.01	[4] .19	[4] .28	[4] .37	[4] .40										
June 15	3.45 p. m.	8.55 p. m.	2.54	3.54 p. m.	4.53 p. m.	.01	.11	.13	.38	.60	.90	1.32	1.60	1.85	1.92	2.04	2.14			
June 22	1.28 p. m.	5.40 p. m.	.74	1.41 p. m.	1.51 p. m.	.01	.25	.36												
June 24	5.26 a. m.	6.39 a. m.	.50	5.30 a. m.	5.44 a. m.	.01	.07	.20	.35											
July 18	3.45 p. m.	8.20 p. m.	1.16	3.59 p. m.	4.10 p. m.	.02	.31	.45	.48											

[1] On previous date. [3] On following date. [4] Defective record.

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 1921 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—COD.																				
Springfield, Ill.—Continued.																				
Aug. 1	3.58 p.m.	6.17 p.m.	1.83	4.22 p.m.	5.19 p.m.	0.01	[4].31	0.87	1.05	1.08	1.14	1.22	1.33	1.50	1.62	1.69	1.81	....	....	....
Do	10.23 p.m.	[2] 8.30 a.m.	1.35	10.29 p.m.	10.43 p.m.	.01	.16	.36	.42	....	....	....	....	....	....	....	....	....	....	....
Do	10.23 p.m.	[2] 8.30 a.m.	1.35	11.35 p.m.	11.41 p.m.	.47	.36	.38	....	....	....	....	....	....	....	....	....	....	....	....
Aug. 11	1.40 a.m.	10.10 a.m.	.97	2.08 a.m.	2.18 a.m.	.16	.15	.32	....	....	....	....	....	....	....	....	....	....	....	....
Do	1.40 a.m.	10.10 a.m.	.97	3.38 a.m.	3.45 a.m.	.54	.24	.33	....	....	....	....	....	....	....	....	....	....	....	....
Sept. 4	8.49 p.m.	[3] D. N. a.m.	1.07	8.54 p.m.	9.15 p.m.	.02	.12	.22	.34	.47	.51	....	....	....	....	....	....	....	....	....
Hannibal, Mo.:																				
Aug. 1	9.42 p.m.	[2] 8.40 a.m.	2.08	9.45 p.m.	9.59 p.m.	.01	.44	.60	.68	....	....	....	....	....	....	....	....	....	....	....
Aug. 5	10.37 p.m.	D. N. p.m.	.62	10.50 p.m.	11.10 p.m.	.01	.12	.32	.51	.59	....	....	....	....	....	....	....	....	....	....
Aug. 11	[2] D. N. p.m.	D. N. a.m.	1.50	12.10 a.m.	12.44 a.m.	.09	.32	.42	.44	.45	.63	.85	.91	....	....	....	....	....	....	....
Sept. 4	6.31 p.m.	8.30 p.m.	1.38	7.05 p.m.	7.32 p.m.	.03	.23	.54	.89	1.07	1.15	1.22	....	....	....	....	....	....	....	....
Sept. 13	4.58 a.m.	6.40 a.m.	.60	5.50 a.m.	6.12 a.m.	.08	.06	.13	.34	.44	.50	....	....	....	....	....	....	....	....	....
Sept. 19	2.50 a.m.	9.35 a.m.	1.84	4.50 a.m.	5.28 a.m.	.33	.11	.19	.22	.28	.41	.61	.68	.73	....	....	....	....	....	....
St. Louis, Mo.:																				
Apr. 16	[2] 7.25 p.m.	5.00 a.m.	1.50	2.20 a.m.	3.20 a.m.	.26	.27	.36	.40	.49	.55	.63	.69	.77	.84	.91	1.06	....	....	....
Apr. 25	6.55 p.m.	[2] D. N. a.m.	1.90	7.01 p.m.	7.34 p.m.	T.	.15	.40	.58	.69	.87	.97	1.06	....	....	....	....	....	....	....
May 25	1.11 p.m.	1.35 p.m.	.59	1.11 p.m.	1.24 p.m.	.00	.35	.52	.59	....	....	....	....	....	....	....	....	....	....	....
June 8	9.35 a.m.	10.50 a.m.	.48	9.57 a.m.	10.05 a.m.	.02	.30	.41	....	....	....	....	....	....	....	....	....	....	....	....
June 25	10.55 a.m.	11.45 a.m.	.35	11.31 a.m.	11.35 a.m.	.06	.28	....	....	....	....	....	....	....	....	....	....	....	....	....
July 14	1.04 p.m.	2.14 p.m.	.93	1.11 p.m.	1.43 p.m.	.03	.14	.34	.61	.74	.80	.83	.88	....	....	....	....	....	....	....
Aug. 27	6.40 a.m.	8.55 a.m.	.81	6.53 a.m.	7.31 a.m.	.03	.06	.12	.18	.24	.29	.40	.50	.63	....	....	....	....	....	....
Sept. 8	12.19 p.m.	1.13 p.m.	.48	12.41 p.m.	1.00 p.m.	.05	.13	.29	.43	....	....	....	....	....	....	....	....	....	....	....
Sept. 9	1.12 p.m.	2.00 p.m.	.64	1.25 p.m.	1.40 p.m.	.02	.15	.37	.61	....	....	....	....	....	....	....	....	....	....	....
Sept. 28	D. N. a.m.	D. N. a.m.	.49	2.35 a.m.	2.50 a.m.	.01	.10	.29	.39	....	....	....	....	....	....	....	....	....	....	....
Oct. 28	8.35 p.m.	[4] D. N. a.m.	.73	8.57 p.m.	9.11 p.m.	.03	.11	.42	.59	....	....	....	....	....	....	....	....	....	....	....
MISSOURI VALLEY.																				
Columbia, Mo.:																				
Apr. 8	D. N. a.m.	D. N. a.m.	.39	1.58 a.m.	2.04 a.m.	.01	.30	.34	....	....	....	....	....	....	....	....	....	....	....	....
Apr. 15	4.15 p.m.	[3] D. N. a.m.	1.51	10.40 p.m.	10.50 p.m.	.47	.20	.32	....	....	....	....	....	....	....	....	....	....	....	....
May 11	3.31 p.m.	4.20 p.m.	.43	3.35 p.m.	3.43 p.m.	.02	.25	.37	....	....	....	....	....	....	....	....	....	....	....	....
May 26	12.35 p.m.	2.25 p.m.	.74	1.20 p.m.	1.46 p.m.	.12	.04	.11	.39	.47	.52	.55	....	....	....	....	....	....	....	....
July 4	1.22 p.m.	4.35 p.m.	.84	1.25 p.m.	1.51 p.m.	.01	.12	.18	.34	.48	.58	.60	....	....	....	....	....	....	....	....
July 14	9.04 a.m.	11.30 a.m.	.60	9.04 a.m.	9.20 a.m.	.00	.15	.26	.35	.39	....	....	....	....	....	....	....	....	....	....
July 28	7.15 a.m.	8.12 a.m.	.55	7.37 a.m.	7.50 a.m.	.03	.23	.39	.49	....	....	....	....	....	....	....	....	....	....	....
Aug. 2	[2] 11.18 p.m.	D. N. a.m.	.51	12.22 a.m.	12.39 a.m.	.11	.11	.27	.37	.40	....	....	....	....	....	....	....	....	....	....
Aug. 6	6.56 a.m.	9.04 a.m.	.91	7.13 a.m.	7.36 a.m.	.02	.24	.55	.72	.79	.83	....	....	....	....	....	....	....	....	....
Aug. 7	D. N. a.m.	D. N. a.m.	.42	12.29 a.m.	12.41 a.m.	.01	.11	.35	.40	....	....	....	....	....	....	....	....	....	....	....
Aug. 11	[2] D. N. p.m.	D. N. a.m.	1.59	12.29 a.m.	1.22 a.m.	.28	.09	.26	.44	.50	.57	.63	.70	.74	.91	1.07	1.14	....	....	....
Sept. 3	D. N. a.m.	8.12 a.m.	2.10	3.14 a.m.	4.03 a.m.	.63	.07	.15	.18	.24	.28	.34	.41	.49	.73	.87	....	....	....	....
Sept. 4	7.38 p.m.	D. N. p.m.	.88	7.47 p.m.	8.08 p.m.	.01	.32	.37	.47	.54	.56	....	....	....	....	....	....	....	....	....
Sept. 23	12.59 p.m.	3.30 p.m.	1.75	1.30 p.m.	2.11 p.m.	.01	.29	.53	.68	.88	1.11	1.30	1.43	1.54	1.58	....	....	....	....	....
Sept. 24	6.50 p.m.	D. N. p.m.	.99	7.00 p.m.	7.32 p.m.	.02	.08	.22	.32	.42	.50	.57	.61	....	....	....	....	....	....	....
Oct. 25	D. N. p.m.	D. N. p.m.	.43	11.17 p.m.	11.31 p.m.	.03	.15	.26	.36	....	....	....	....	....	....	....	....	....	....	....
Kansas City, Mo.:																				
Mar. 7	4.32 p.m.	10.00 p.m.	1.74	5.06 p.m.	5.39 p.m.	.09	.18	.24	.33	.57	.82	1.00	1.11	....	....	....	....	....	....	....
Apr. 6	5.30 p.m.	6.28 p.m.	.40	5.45 p.m.	5.57 p.m.	.01	.28	.35	.37	....	....	....	....	....	....	....	....	....	....	....
May 7-8	10.50 p.m.	D. N. a.m.	2.41	11.38 p.m.	12.43 a.m.	.06	.05	.17	.37	.47	.68	.95	1.11	1.28	1.55	1.73	1.86	1.99	....	....
May 8	D. N. a.m.	9.25 a.m.	1.06	4.28 a.m.	4.57 a.m.	.01	.07	.13	.33	.49	.56	.63	....	....	....	....	....	....	....	....
May 10	4.35 p.m.	6.10 p.m.	.66	4.44 p.m.	5.09 p.m.	.01	.13	.31	.40	.52	.60	....	....	....	....	....	....	....	....	....
June 7	3.57 p.m.	8.00 p.m.	3.08	5.22 p.m.	6.43 p.m.	.20	.15	.27	.39	.56	.84	1.06	1.30	1.53	1.82	1.98	2.37	2.83	2.87	....
June 9	1.34 p.m.	2.15 p.m.	.66	1.36 p.m.	2.03 p.m.	.01	.09	.16	.35	.50	.61	.65	....	....	....	....	....	....	....	....
June 26	2.15 p.m.	4.25 p.m.	2.00	2.27 p.m.	3.44 p.m.	.01	.22	.51	.62	.84	.98	.98	1.00	1.05	1.16	1.29	1.60	1.88	....	....
Aug. 6	4.30 a.m.	5.50 a.m.	1.03	4.34 a.m.	4.50 a.m.	.02	.36	.63	.85	.92	....	....	....	....	....	....	....	....	....	....
Aug. 10	5.35 p.m.	[3] D. N. a.m.	1.67	8.52 p.m.	9.11 p.m.	.29	.34	.84	1.13	1.24	....	....	....	....	....	....	....	....	....	....
Aug. 16	10.45 p.m.	[2] 2.05 a.m.	.89	11.30 p.m.	11.53 p.m.	.14	.07	.18	.38	.58	.63	....	....	....	....	....	....	....	....	....
Oct. 7	2.10 a.m.	2.45 a.m.	.60	2.18 a.m.	2.29 a.m.	.03	.27	.54	.56	....	....	....	....	....	....	....	....	....	....	....
St. Joseph, Mo.:																				
Apr. 6	5.10 p.m.	5.42 p.m.	.56	5.13 p.m.	5.34 p.m.	.01	.23	.29	.39	.53	.54	....	....	....	....	....	....	....	....	....
June 9	3.16 p.m.	5.54 p.m.	.75	3.21 p.m.	3.43 p.m.	.01	.25	.36	.53	.61	.66	....	....	....	....	....	....	....	....	....
June 25	10.15 a.m.	1.20 p.m.	.98	11.34 a.m.	11.54 a.m.	.17	.31	.43	.55	.73	....	....	....	....	....	....	....	....	....	....
July 28	4.19 p.m.	5.25 p.m.	.46	4.50 p.m.	5.04 p.m.	.04	.19	.32	.36	....	....	....	....	....	....	....	....	....	....	....
July 31	D. N. a.m.	6.26 a.m.	.69	4.25 a.m.	4.40 a.m.	.01	.10	.29	.45	....	....	....	....	....	....	....	....	....	....	....
Aug. 1	3.39 p.m.	4.45 p.m.	.46	4.09 p.m.	4.18 p.m.	.02	.24	.44	....	....	....	....	....	....	....	....	....	....	....	....
Do	6.16 p.m.	[3] 6.05 a.m.	1.78	6.36 p.m.	6.46 p.m.	.02	.11	.30	....	....	....	....	....	....	....	....	....	....	....	....
Aug. 4	9.24 a.m.	10.00 a.m.	.34	9.35 a.m.	9.47 a.m.	.01	.16	.30	.33	....	....	....	....	....	....	....	....	....	....	....
Aug. 13	5.06 p.m.	5.50 p.m.	.75	5.13 p.m.	5.32 p.m.	.02	.10	.31	.53	.72	....	....	....	....	....	....	....	....	....	....
Sept. 2	8.56 p.m.	[3] D. N. a.m.	1.00	8.59 p.m.	9.15 p.m.	.01	.16	.43	.67	.70	....	....	....	....	....	....	....	....	....	....
Sept. 14	D. N. a.m.	6.20 a.m.	1.64	3.49 a.m.	4.40 a.m.	.30	.10	.31	.45	.53	.56	.62	.72	.97	1.16	1.25	1.31	....	....	....
Sept. 24	1.46 p.m.	4.45 p.m.	.79	1.58 p.m.	2.20 p.m.	.02	.06	.21	.49	.64	.69	....	....	....	....	....	....	....	....	....
Oct. 2	D. N. a.m.	D. N. a.m.	.82	4.30 a.m.	4.55 a.m.	.18	.19	.41	.51	.55	.63	....	....	....	....	....	....	....	....	....
Springfield, Mo.:																				
Mar. 27	D. N. a.m.	11.35 p.m.	3.00	1.32 a.m.	1.59 a.m.	.20	.08	.18	.22	.34	.47	.55	....	....	....	....	....	....	....	....
Apr. 15	8.02 p.m.	10.46 p.m.	.80	8.51 p.m.	9.13 p.m.	.05	.20	.24	.37	.55	.63	....	....	....	....	....	....	....	....	....
Apr. 25	3.23 p.m.	10.40 p.m.	1.39	3.45 p.m.	4.24 p.m.	.05	.06	.17	.28	.33	.36	.48	.65	.72	....	....	....	....	....	....
May 10	4.30 a.m.	9.43 a.m.	2.17	4.56 a.m.	6.14 a.m.	.02	.08	.12	.19	.33	.51	.71	.95	1.07	1.12	1.18	1.36	1.63	....	....
June 2	12.02 p.m.	4.16 p.m.	.68	12.15 p.m.	12.35 p.m.	.07	.14	.30	.44	.56	....	....	....	....	....	....	....	....	....	....
June 13	5.10 p.m.	6.34 p.m.	.59	5.51 p.m.	6.10 p.m.	.05	.11	.21	.39	.49	....	....	....	....	....	....	....	....	....	....
June 19	2.20 p.m.	4.35 p.m.	.67	3.06 p.m.	3.40 p.m.	.01	.12	.23	.31	.37	.51	.56	.65	....	....	....	....	....	....	....
June 23	4.40 p.m.	9.52 p.m.	1.39	8.01 p.m.	9.08 p.m.	.22	.13	.29	.44	.58	.69	.71	.74	.88	.90	.92	1.05	1.17	....	....
June 27	10.31 a.m.	3.02 p.m.	2.37	10.45 a.m.	11.36 a.m.	.03	.09	.18	.18	.27	.34	.44	.48	.60	.67	.86	....	....	....	....
				11.36 a.m.	12.26 p.m.	....	1.10	1.23	1.27	1.32	1.40	1.50	1.59	1.65	1.69	1.74	....	....	....	....
				12.26 p.m.	12.53 p.m.	....	1.75	1.80	2.00	2.06	2.14	2.22	....	....	....	....	....	....	....	....

[2] On previous date. [3] On following date. [4] Defective record.

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 1921 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.																				
Springfield, Mo.—Continued.																				
July 19	4.33 p. m.	5.14 p. m.	0.41	4.35 p. m.	4.50 p. m.	0.01	0.08	0.22	0.38											
Aug. 11	12.42 a. m.	5.17 a. m.	2.67	12.56 a. m.	1.36 a. m.	.03	.20	.33	.46	0.50	0.56	0.60	0.62	0.71						
Do	12.42 a. m.	5.17 a. m.	2.67	4.00 a. m.	4.28 a. m.	1.48	.35	.41	.64	.87	1.05	1.13								
Aug. 12	4.51 p. m.	7.40 p. m.	.94	6.31 p. m.	6.48 p. m.	.11	.23	.48	.69	.78										
Aug. 13	1.49 p. m.	5.40 p. m.	.64	3.10 p. m.	3.29 p. m.	.07	.18	.26	.38	.46										
Aug. 14	[2] 10.17 p. m.	5.33 a. m.	1.24	12.11 a. m.	12.59 a. m.	.19	.07	.12	.32	.38	.41	.49	.54	.64	0.81	0.90				
Aug. 25	7.34 a. m.	1.43 p. m.	1.46	7.41 a. m.	8.04 a. m.	.01	.16	.34	.52	.68	.78									
Sept. 12	3.10 p. m.	7.41 p. m.	1.05	6.47 p. m.	7.08 p. m.	.18	.26	.56	.72	.82	.85									
Oct. 2	7.41 a. m.	11.15 a. m.	1.26	9.27 a. m.	10.07 a. m.	.34	.13	.28	.39	.49	.54	.57	.64	.83						
Iola, Kans.:																				
Mar. 20	2.20 p. m.	[3] D. N. a. m.	1.80	2.55 p. m.	3.05 p. m.	.01	.12	.36												
Mar. 26	[2] D. N. p. m.	D. N. a. m.	.86	12.43 a. m.	1.08 a. m.	.15	.13	.38	.43	.64	.71									
May 8	7.50 a. m.	9.00 a. m.	.45	8.25 a. m.	8.40 a. m.	.02	.19	.33	.40											
Do	10.05 p. m.	D. N. p. m.	1.53	10.09 p. m.	11.01 p. m.	.01	.12	.25	.42	.53	.63	.79	.92	1.17	1.27	1.30	1.43			
June 7	3.20 p. m.	3.45 p. m.	.57	3.24 p. m.	3.39 p. m.	.01	.42	.49	.56											
June 8	12.05 p. m.	1.40 p. m.	.65	12.05 p. m.	12.16 p. m.	.00	.13	.30	.34											
June 9	D. N. a. m.	D. N. a. m.	1.48	12.42 a. m.	1.42 a. m.	.31	.08	.13	.26	.34	.37	.53	.72	.78	.87	.90	1.01			
June 20	10.50 a. m.	11.25 a. m.	.48	10.58 a. m.	11.11 a. m.	.01	.21	.38	.46											
June 27	6.00 a. m.	7.05 a. m.	.90	6.13 a. m.	6.37 a. m.	.01	.20	.39	.64	.79	.88									
July 18	6.55 p. m.	9.00 p. m.	.92	7.00 p. m.	7.34 p. m.	.01	.08	.28	.53	.68	.74	.81	.86							
July 28	6.47 p. m.	7.00 p. m.	.41	6.47 p. m.	6.54 p. m.	.00	.31	.41												
Aug. 12	3.30 p. m.	6.45 p. m.	.62	3.55 p. m.	4.10 p. m.	.06	.19	.29	.36											
Aug. 13	11.25 a. m.	1.50 p. m.	.97	11.41 a. m.	11.51 a. m.	.01	.28	.55												
Do	3.40 p. m.	4.00 p. m.	.36	3.42 p. m.	3.49 p. m.	.01	.27	.34												
Aug. 29	1.50 a. m.	6.05 a. m.	1.12	1.53 a. m.	2.20 a. m.	.01	.22	.42	.60	.75	.88	.94								
Sept. 11	12.15 p. m.	12.55 p. m.	.70	12.22 p. m.	12.37 p. m.	.02	.17	.46	.60											
Sept. 12	10.00 a. m.	12.50 p. m.	1.67	10.07 a. m.	10.27 a. m.	.02	.26	.91	1.13	1.18										
Topeka, Kans.:																				
Mar. 7	6.07 p. m.	[3] 9.00 a. m.	2.37	10.29 p. m.	11.44 p. m.	.67	.13	.29	.49	.69	.79	.86	.93	1.02	1.07	1.13	1.23	1.51		
May 9	6.05 p. m.	[3] 1.00 a. m.	1.24	7.52 p. m.	8.20 p. m.	.20	.08	.24	.42	.54	.61	.67								
June 7	1.40 p. m.	D. N. p. m.	2.87	1.47 p. m.	2.08 p. m.	.02	.05	.35	.67	.80	.84									
Do	1.40 p. m.	D. N. p. m.	2.87	3.03 p. m.	3.35 p. m.	1.08	.09	.16	.21	.45	.69	.97	1.05							
July 2	[2] 11.35 p. m.	D. N. a. m.	1.48	12.03 a. m.	12.51 a. m.	.08	.07	.12	.33	.51	.65	.70	.86	.99	1.04	1.11				
July 14	[2] 11.50 p. m.	6.45 a. m.	.70	6.19 a. m.	6.37 a. m.	.17	.09	.14	.40	.51										
July 18	4.30 a. m.	8.40 a. m.	.94	4.57 a. m.	5.19 a. m.	.02	.10	.18	.27	.42	.47									
Aug. 6	3.17 a. m.	8.15 a. m.	1.45	6.39 a. m.	6.53 a. m.	1.04	.13	.20	.37											
Aug. 10	2.20 a. m.	6.55 a. m.	.54	2.51 a. m.	2.58 a. m.	.12	.26	.31												
Do	4.50 p. m.	D. N. p. m.	4.01	5.02 p. m.	5.53 p. m.	.02	.13	.18	.26	.30	.34	.60	.65	.78	1.15	1.42	1.47			
Do	4.50 p. m.	D. N. p. m.	4.01	7.53 p. m.	8.36 p. m.	1.66	.21	.55	1.01	1.19	1.46	1.70	1.88	2.07	2.13					
Aug. 16	9.15 p. m.	[3] D. N. a. m.	1.53	9.35 p. m.	10.00 p. m.	.02	.15	.29	.33	.44	.65									
Do	9.15 p. m.	[3] D. N. a. m.	1.53	10.32 p. m.	10.52 p. m.	.70	.19	.48	.57	.65										
Sept. 12	6.50 a. m.	11.00 a. m.	1.11	7.16 a. m.	7.43 a. m.	.11	.17	.36	.47	.54	.70	.75								
Drexel, Nebr.:																				
Apr. 6	9.30 a. m.	10.10 a. m.	.32	9.52 a. m.	9.59 a. m.	.01	.28	.31												
June 1	6.58 p. m.	D. N. p. m.	.80	7.47 p. m.	8.07 p. m.	.01	.05	.11	.22	.44										
July 3	1.50 p. m.	6.35 p. m.	1.22	4.41 p. m.	4.49 p. m.	.31	.25	.37												
Do	8.38 p. m.	[3] 4.30 a. m.	1.81	9.47 p. m.	10.34 p. m.	.12	.18	.41	.54	.59	.64	.82	1.15	1.28	1.51	1.58				
July 13	D. N. p. m.	[3] D. N. a. m.	.98	11.12 p. m.	11.34 p. m.	.01	.33	.60	.62	.70	.75									
Sept. 19	4.30 a. m.	7.00 a. m.	.64	5.22 a. m.	5.31 a. m.	.13	.29	.36												
Lincoln, Nebr.:																				
May 8	11.05 a. m.	5.15 p. m.	1.38	1.15 p. m.	2.13 p. m.	.14	.15	.31	.45	.56	.62	.65	.71	.73	.73	.76	.91			
June 1	6.39 p. m.	[3] 4.45 a. m.	2.70	8.35 p. m.	8.52 p. m.	.14	.30	.63	.91	.96										
Do	6.39 p. m.	[3] 4.45 a. m.	2.70	11.25 p. m.	11.39 p. m.	1.67	.06	.28	.36											
July 18	1.05 a. m.	5.05 a. m.	1.92	1.39 a. m.	2.08 a. m.	.05	.13	.36	.74	1.07	1.28	1.40								
Aug. 4	6.30 a. m.	9.05 a. m.	1.13	7.06 a. m.	7.30 a. m.	.06	.13	.37	.49	.68	.73									
Aug. 19	5.53 p. m.	11.22 p. m.	.48	6.26 p. m.	6.39 p. m.	.04	.10	.32	.40											
Aug. 26	6.30 p. m.	7.28 p. m.	1.33	6.34 p. m.	6.59 p. m.	.01	.19	.71	1.08	1.21	1.27									
Sept. 19	D. N. a. m.	6.12 a. m.	.86	4.33 a. m.	5.01 a. m.	.07	.06	.20	.30	.36	.51	.56								
Omaha, Nebr.:																				
June 1	8.15 p. m.	[3] 5.30 a. m.	.94	9.43 p. m.	10.11 p. m.	T.	.06	.17	.38	.55	.62	.65								
June 9	9.00 a. m.	12.20 p. m.	.92	11.42 a. m.	12.17 p. m.	.26	.21	.36	.40	.45	.53	.55	.66							
July 3	9.30 p. m.	[3] D. N. a. m.	1.52	10.36 p. m.	11.16 p. m.	.04	.14	.16	.26	.53	.86	1.10	1.17	1.24						
Aug. 10	3.28 p. m.	4.25 p. m.	.56	3.58 p. m.	4.13 p. m.	.05	.24	.36	.50											
Sept. 10	[2] D. N. p. m.	D. N. a. m.	1.78	12.01 a. m.	1.11 a. m.	.06	.07	.19	.27	.39	.51	.66	.84	1.04	1.15	1.23	1.36	1.60		
Sept. 19 [4]	5.25 p. m.	9.00 p. m.	2.15	5.54 p. m.	7.18 p. m.	.06	.07	.11	.26	.33	.34	.36	.47	.60	.65	.77	.99	1.30	1.61	
Valentine, Nebr.:																				
May 24	7.05 p. m.	8.50 p. m.	.54	7.11 p. m.	7.26 p. m.	T.	.16	.41	.48											
June 1	12.10 a. m.	5.25 a. m.	1.23	2.45 a. m.	3.13 a. m.	.07	.16	.29	.33	.51	.74	.79								
July 2	7.57 p. m.	[3] 12.05 a. m.	.66	8.03 p. m.	8.09 p. m.	T.	.31	.33												
Sept. 3	4.40 a. m.	7.35 a. m.	1.12	5.47 a. m.	6.00 a. m.	.54	.12	.30	.36											
Sioux City, Iowa:																				
May 26	5.35 p. m.	6.20 p. m.	.49	5.46 p. m.	5.59 p. m.	.06	.16	.28	.40											
June 1	9.33 a. m.	12.15 p. m.	.82	11.12 a. m.	11.26 a. m.	.01	.32	.59	.67											
June 15	[2] 11.00 p. m.	1.55 a. m.	1.14	12.04 a. m.	12.33 a. m.	.09	.11	.17	.23	.32	.57	.72								
Aug. 31 [4]	D. N. a. m.	6.20 a. m.	1.23	2.35 a. m.	2.58 a. m.	.10	.11	.30	.41	.51	.58									
Sept. 2	D. N. a. m.	5.30 a. m.	1.30	2.31 a. m.	2.53 a. m.	.16 [4]	.24	[4] .57	[4] .83	[4] .97	[4] .99									
Sept. 9	8.10 p. m.	10.30 p. m.	1.22	8.16 p. m.	8.54 p. m.	.01	[4] .15	[4] .36	[4] .57	[4] .67	[4] .79	[4] .87	[4] .92	[4] .96						
Huron, S. Dak.:																				
July 17	4.13 p. m.	7.30 p. m.	1.51	4.31 p. m.	4.56 p. m.	.02	.15	.49	.79	1.12	1.23									
Aug. 9	6.23 p. m.	8.00 p. m.	.73	6.29 p. m.	6.49 p. m.	.01	(7)	.55	.59	.66										
Aug. 16	7.22 p. m.	[3] D. N. a. m.	.90	7.25 p. m.	7.51 p. m.	.01	.17	.29	.45	.63	.79	.83								
Sept. 9	4.09 p. m.	10.10 p. m.	1.30	6.58 p. m.	7.42 p. m.	.21	.15	.37	.47	.51	.60	.66	.74	.81	.86					
Sept. 13	6.15 a. m.	8.55 a. m.	.87	6.40 a. m.	7.01 a. m.	.04	.08	.17	.35	.44	.49									
Sept. 19	[2] 10.24 p. m.	D. N. a. m.	.85	3.45 a. m.	4.00 a. m.	.45	.18	.32	.39											

[1] On previous date. [2] On following date. [3] Defective record. [4] No record.

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 1921 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.																				
Pierre, S. Dak.:																				
May 18	7.10 p. m.	[3] D. N. a. m.	2.42	9.55 p. m.	10.45 p. m.	0.50	0.12	0.22	0.34	0.41	0.64	0.75	0.83	1.04	1.21	1.26				
July 2	6.10 p. m.	[3] D. N. a. m.	2.14	6.19 p. m.	7.07 p. m.	.01	.18	.39	.51	.66	1.03	1.26	1.39	1.48	1.57	1.61				
July 15	D. N. a. m.	6.30 a. m.	.54	4.47 a. m.	5.04 a. m.	.03	.10	.26	.35	.39										
Sept. 9	12.05 p. m.	5.10 p. m.	.84	3.23 p. m.	3.42 p. m.	.08	.12	.41	.68	.73										
Sept. 13	D. N. a. m.	D. N. a. m.	1.13	3.02 a. m.	4.10 a. m.	.01	.10	.15	.17	.34	.39	.39	.39	.55	.69	.73	0.98	1.11		
Yankton, S. Dak.:																				
May 19	4.05 p. m.	6.20 p. m.	.55	5.07 p. m.	5.32 p. m.	.07	.16	.20	.24	.38	.45									
May 25	9.05 p. m.	[3] 2.30 a. m.	1.48	9.17 p. m.	9.40 p. m.	.01	.15	.48	.86	1.02	1.12									
May 26	3.45 p. m.	6.10 p. m.	.78	5.06 p. m.	5.20 p. m.	.31	.28	.38	.43											
July 13	7.45 p. m.	[3] 2.00 a. m.	.91	7.50 p. m.	8.13 p. m.	.01	.15	.38	.59	.70	.74									
July 28	8.40 a. m.	9.05 a. m.	.59	8.45 a. m.	8.57 a. m.	.01	.42	.54	.57											
Aug. 21	9.30 p. m.	[3] 2.20 a. m.	1.38	9.56 p. m.	10.23 p. m.	.12	.10	.23	.50	.74	.95	1.00								
Aug. 28	8.20 p. m.	11.00 p. m.	1.07	8.25 p. m.	9.05 p. m.	.01	.10	.24	.37	.45	.70	.80	.88	.94						
Sept. 3	11.40 a. m.	12.25 p. m.	.63	11.43 a. m.	12.03 p. m.	.01	.10	.38	.55	.60										
Sept. 9	6.30 p. m.	7.45 p. m.	.78	6.48 p. m.	7.11 p. m.	.07	.05	.25	.37	.50	.56									
NORTHERN SLOPE.																				
Havre, Mont.[1]																				
Helena, Mont.[1]																				
Kalispell, Mont.[1]																				
Rapid City, S. Dak.:																				
Aug. 12	1.58 p. m.	2.38 p. m.	1.06	2.03 p. m.	2.27 p. m.	.01	.09	.21	.47	.86	1.04									
Cheyenne, Wyo.[1]																				
Lander, Wyo.[1]																				
Sheridan, Wyo.:																				
May 7	D. N. a. m.	3.45 p. m.	1.73	1.55 p. m.	2.44 p. m.	.39	.05	.10	.18	.25	.35	.62	.78	.93	1.15	1.28				
Yellowstone Park, Wyo.[1]																				
North Platte, Nebr.:																				
Aug. 1	D. N. a. m.	D. N. a. m.	1.04	12.28 a. m.	12.52 a. m.	.02	.20	.48	.69	.85	.90									
MIDDLE SLOPE.																				
Denver, Colo.:																				
Aug. 23	7.53 p. m.	[2] D. N. a. m.	2.93	8.24 p. m.	9.28 p. m.	.02	.24	.35	.40	.56	.71	1.00	1.20	1.34	1.60	1.93	2.20	2.32		
Pueblo, Colo.:																				
May 15	3.25 p. m.	6.30 p. m.	.95	3.34 p. m.	3.47 p. m.	T.	.22	.44	.55											
June 2	2.50 p. m.	4.30 p. m.	1.81	3.41 p. m.	4.17 p. m.	T.	.38	.71	.93	1.20	1.42	1.59	1.72	1.79						
June 3-4	5.55 p. m.	5.00 a. m.	2.88	10.51 p. m.	12.07 a. m.	.08	.20	.29	.38	.51	.59	.67	.86	.96	1.06	1.13	1.29	1.67		
June 5	3.10 p. m.	4.05 p. m.	.47	3.35 p. m.	3.49 p. m.	T.	.25	.38	.46											
July 4	3.15 p. m.	4.50 p. m.	1.84	3.27 p. m.	4.23 p. m.	.03	.08	.14	.16	.22	.38	.60	.78	.98	1.28	1.59	1.75			
July 27	3.00 p. m.	4.30 p. m.	1.49	3.00 p. m.	3.45 p. m.	.00	.25	.49	.69	.87	1.01	1.12	1.22	1.36	1.43					
Aug. 11	7.15 p. m.	[3] 12.10 a. m.	.83	7.22 p. m.	7.52 p. m.	.02	.10	.20	.25	.33	.43	.51								
Concordia, Kans.:																				
May 8	[2] 10.35 p. m.	4.00 a. m.	1.74	1.08 a. m.	1.38 a. m.	.82	.28	.37	.41	.49	.55	.64								
June 16-17	10.01 p. m.	12.53 a. m.	1.96	11.42 p. m.	12.28 a. m.	.20	.18	.40	.68	.82	1.02	1.19	1.47	1.66	1.71	1.73				
July 3	8.20 p. m.	11.38 p. m.	1.98	10.43 p. m.	11.35 p. m.	.05	.20	.36	.61	.68	.74	1.08	1.44	1.54	1.73	1.89	1.93			
July 11	6.44 p. m.	7.03 p. m.	.41	6.44 p. m.	6.58 p. m.	.00	.18	.32	.41											
July 18	D. N. a. m.	D. N. a. m.	.76	3.37 a. m.	4.25 a. m.	.02	.08	.13	.21	.27	.34	.40	.48	.55	.67	.72				
Sept. 17	2.00 a. m.	3.15 a. m.	.70	2.04 a. m.	2.25 a. m.	.02	.13	.28	.35	.41	.45									
Dodge City, Kans.:																				
July 24	7.10 p. m.	D. N. p. m.	1.43	8.42 p. m.	9.57 p. m.	.07	.06	.17	.35	.48	.57	.71	.79	.82	.84	.88	.96	1.23		
Aug. 6	12.15 a. m.	D. N. a. m.	.63	12.18 a. m.	12.44 a. m.	.01	.16	.30	.42	.51	.57	.61								
Aug. 7	D. N. a. m.	D. N. a. m.	.76	2.10 a. m.	2.35 a. m.	.02	.08	.14	.30	.48	.55									
Sept. 8	7.48 p. m.	9.15 p. m.	.92	8.24 p. m.	9.01 p. m.	.04	.13	.36	.42	.56	.62	.71	.82	.87						
Wichita, Kans.:																				
Apr. 25 [4]	D. N. a. m.	D. N. a. m.	.55	12.15 a. m.	12.41 a. m.	.01	.08	.11	.19	.30	.45	.50								
May 30	2.00 p. m.	4.45 p. m.	1.04	2.08 p. m.	2.33 p. m.	.01	.08	.20	.37	.51	.68									
June 7	5.15 a. m.	7.40 a. m.	.43	5.20 a. m.	5.29 a. m.	.01	.26	.34												
June 8	6.30 a. m.	9.35 a. m.	1.44	7.00 a. m.	7.12 a. m.	.18	.20	.26	.39											
June 8	6.30 a. m.	9.35 a. m.	1.44	7.58 a. m.	8.18 a. m.	.65	.11	.38	.60	.73										
July 30	4.50 p. m.	7.30 p. m.	.65	5.41 p. m.	6.00 p. m.	.03	.13	.26	.44	.53										
Aug. 6	[2] 4.00 p. m.	D. N. a. m.	1.47	12.48 a. m.	1.16 a. m.	.06	.05	.26	.32	.49	.67	.76								
Aug. 12	12.20 p. m.	2.20 p. m.	.49	12.35 p. m.	12.50 p. m.	.01	.19	.34	.44											
Sept. 7	6.55 p. m.	9.45 p. m.	.62	7.51 p. m.	8.01 p. m.	.04	.27	.43												
Broken Arrow, Okla.:																				
Mar. 5	9.15 p. m.	10.45 p. m.	.62	9.33 p. m.	9.55 p. m.	.05	.10	.17	.23	.52	.57									
Mar. 27	D. N. a. m.	10.45 a. m.	1.04	9.21 a. m.	9.36 a. m.	.54	.07	.29	.40											
Apr. 6	7.30 a. m.	9.30 a. m.	1.28	8.08 a. m.	8.39 a. m.	.05	.12	.18	.33	.45	.91	1.06	1.08							
Apr. 13	1.45 p. m.	8.40 p. m.	1.22	3.48 p. m.	4.43 p. m.	.07	.14	.29	.37	.43	.51	.55	.57	.66	.68	.81	.91			
Apr. 25	6.40 a. m.	2.47 p. m.	3.71	8.02 a. m.	8.40 a. m.	.58	.18	.35	.38	.41	.47	.54	.65	.71						
Do	6.40 a. m.	2.47 p. m.	3.71	9.22 a. m.	9.27 a. m.	1.48	.31													
Do	6.40 a. m.	2.47 p. m.	3.71	10.28 a. m.	11.29 a. m.	2.06	.14	.28	.39	.61	.75	.80	.87	.97	.99	1.06	1.30	1.48		
May 30	9.40 a. m.	1.30 p. m.	.70	10.32 a. m.	10.52 a. m.	.01	.09	.29	.43	.51										
June 2	12.25 p. m.	7.20 p. m.	1.32	12.31 p. m.	12.49 p. m.	.02	.26	.53	.78	.91										
June 8	8.00 a. m.	10.40 a. m.	.72	9.37 a. m.	9.47 a. m.	.11	.21	.53												
June 22	12.05 p. m.	1.15 p. m.	.81	12.08 p. m.	12.21 p. m.	.01	.30	.55	.60											
July 12	12.50 p. m.	2.00 p. m.	.51	12.50 p. m.	1.11 p. m.	.00	.08	.14	.26	.40	.42									
Aug. 6	6.05 p. m.	D. N. p. m.	.95	6.30 p. m.	7.16 p. m.	.02	.08	.17	.35	.63	.69	.72	.74	.75	.91	.92				

[1] No excessive precipitation. [2] On previous date. [3] On following date. [4] Defective record.

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 1921 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.																				
Broken Arrow, Okla.—Contd.																				
Aug. 9	6.55 a. m.	9.55 a. m.	1.47	8.30 a. m.	8.54 a. m.	0.27	0.21	0.52	0.74	0.98	1.09									
Aug. 14	D. N. a. m.	D. N. a. m.	1.09	4.02 a. m.	5.10 a. m.	.04	.13	.19	.22	.30	.44	0.55	0.66	0.70	0.77	0.82	0.91	1.05		
Sept. 8	D. N. a. m.	D. N. a. m.	.51	12.37 a. m.	12.52 a. m.	.01	.11	.25	.37											
Do	6.30 a. m.	9.40 a. m.	.50	8.36 a. m.	8.52 a. m.	.01	.08	.29	.40	.42										
Sept. 18	[2] 10.20 p. m.	D. N. a. m.	1.15	12.20 a. m.	1.18 a. m.	.14	.11	.17	.19	.21	.27	.31	.40	.46	.56	.74	.91			
Oklahoma City, Okla:																				
Apr. 5	D. N. a. m.	5.45 a. m.	.81	2.23 a. m.	2.32 a. m.	.03	.24	.31												
May 26	6.30 p. m.	9.10 p. m.	.76	7.15 p. m.	7.38 p. m.	.01	.10	.14	.30	.55	.61									
July 11	10.45 a. m.	3.05 p. m.	.61	2.33 p. m.	2.43 p. m.	.22	.20	.37												
July 15	3.50 a. m.	6.40 a. m.	2.30	4.13 a. m.	5.33 a. m.	.04	.22	.55	.74	.97	1.08	1.10	1.10	1.15	1.21	1.47	1.69	2.07		
Sept. 5	[2] 8.55 p. m.	D. N. a. m.	.61	12.26 a. m.	12.35 a. m.	.28	.17	.31												
Sept. 18	4.20 a. m.	9.10 a. m.	1.29	4.24 a. m.	4.44 a. m.	.01	.12	.24	.36	.43										
Do	4.20 a. m.	9.10 a. m.	1.29	6.15 a. m.	6.34 a. m.	.74	.14	.24	.34	.45										
SOUTHERN SLOPE.																				
Abilene, Tex.:																				
May 1	5.08 p. m.	7.30 p. m.	.65	6.27 p. m.	6.36 p. m.	.16	.21	.48												
May 26	6.55 p. m.	8.05 p. m.	.33	7.21 p. m.	7.30 p. m.	.01	.14	.30												
June 5	D. N. p. m.	[3] D. N. a. m.	.72	11.22 p. m.	11.36 p. m.	.01	.26	.42	.53											
June 7	[2] D. N. p. m	7.15 a. m.	2.25	5.20 a. m.	6.38 a. m.	.90	.21	.27	.29	.31	.36	.42	.49	.58	.62	.69	.92	1.28		
Do	8.20 p. m.	8.50 p. m.	.41	8.22 p. m.	8.36 p. m.	.01	.09	.25	.38											
Do	D. N. p. m	[3] D. N. a. m.	1.63	9.43 p. m.	10.35 p. m.	.01	.20	.47	.57	.68	.69	.71	.76	.94	1.13	1.26	1.32			
June 9	6.39 p. m.	7.40 p. m.	.84	6.47 p. m.	7.11 p. m.	.01	.14	.48	.66	.75	.81									
June 25	[2] D. N. p. m	D. N. a. m.	.36	2.37 a. m.	2.42 a. m.	.08	.27													
Aug. 14	2.55 p. m.	5.15 p. m.	.88	3.30 p. m.	3.58 p. m.	.01	.18	.48	.63	.70	.76	.82								
Amarillo, Tex.:																				
June 6	6.36 p. m.	[3] D. N. a. m.	1.09	8.48 p. m.	8.56 p. m.	.40	.37	.41												
June 18	8.47 p. m.	D. N. p. m.	.85	8.58 p. m.	9.22 p. m.	.03	.06	.19	.34	.55	.73	.78								
June 21	4.57 p. m.	5.15 p. m.	.40	5.03 p. m.	5.13 p. m.	.03	.22	.37												
July 9	12.40 p. m.	[4] 1.25 p. m.	.44	12.44 p. m.	1.00 p. m.	.01	.10	.29	.39	.41										
July 16	7.05 p. m.	8.10 p. m.	.61	7.07 p. m.	7.25 p. m.	T.	.19	.40	.54	.57										
Aug. 14	2.45 p. m.	7.10 p. m.	.91	2.51 p. m.	3.08 p. m.	.01	.32	.59	.74	.77										
Aug. 15	D. N. a. m.	7.20 a. m.	2.79	2.07 a. m.	2.57 a. m.	.45	.05	.13	.19	.23	.26	.32	.41	.49	.54	.60				
				2.57 a. m.	3.47 a. m.		.72	.79	1.03	1.06	1.17	1.28	1.39	1.46	1.52	1.55				
				3.47 a. m.	4.14 a. m.		1.58	1.64	1.78	1.94	2.15	2.19								
Aug. 17	3.52 p. m.	7.30 p. m.	1.12	4.09 p. m.	5.10 p. m.	.03	.13	.26	.37	.46	.50	.51	.52	.60	.68	.78	.96	1.05		
Del Rio, Tex.:																				
Feb. 27	6.13 p. m.	9.30 p. m.	5.28	6.32 p. m.	7.44 p. m.	.03	.09	.28	.53	.96	1.44	1.93	2.26	2.59	3.15	3.67	4.67	5.07		
Mar. 15	8.27 p. m.	10.20 p. m.	.65	8.40 p. m.	9.02 p. m.	.02	.14	.24	.27	.45	.51									
Mar. 18	5.25 p. m.	5.54 p. m.	.53	5.33 p. m.	5.47 p. m.	T.	.15	.36	.52											
Apr. 6	D. N. a. m.	D. N. a. m.	1.05	12.14 a. m.	12.58 a. m.	.05	.07	.13	.21	.34	.49	.67	.85	.93	1.00					
June 13	2.22 p. m.	4.10 p. m.	.50	3.35 p. m.	3.48 p. m.	.07	.09	.23	.41											
June 25	9.42 p. m.	11.38 p. m.	.62	10.03 p. m.	10.13 p. m.	.03	[4] .20	[4] .30												
Roswell, N. Mex.:																				
Mar. 18	4.04 p. m.	4.40 p. m.	.69	4.24 p. m.	4.39 p. m.	.04	.18	.48	.64											
June 3	9.48 p. m.	[2] 2.40 a. m.	1.22	10.26 p. m.	10.48 p. m.	.09	.24	.39	.50	.59	.64									
June 4	8.39 p. m.	11.20 p. m.	1.15	9.09 p. m.	9.56 p. m.	.08	.08	.13	.30	.37	.45	.54	.69	.82	.97	1.04				
June 5	5.39 p. m.	6.47 p. m.	.50	5.42 p. m.	5.56 p. m.	.01	.23	.31	.39											
June 13	12.25 a. m.	12.45 a. m.	.76	12.26 a. m.	12.39 a. m.	T.	.30	.63	.74											
July 7	1.36 p. m.	6.20 p. m.	.75	1.38 p. m.	1.55 p. m.	T.	.19	.35	.54	.58										
SOUTHERN PLATEAU.																				
El Paso, Tex.:																				
July 6	12.45 p. m.	1.55 p. m.	.48	1.10 p. m.	1.23 p. m.	.02	.08	.26	.38											
Sept. 15	9.50 p. m.	[3] D. N. a. m.	.90	10.28 p. m.	11.00 p. m.	.02	.08	.22	.37	.45	.61	.69	.73							
Sept. 17	7.35 p. m.	9.15 p. m.	.47	7.54 p. m.	8.06 p. m.	.01	.18	.31	.37											
Santa Fe, N. Mex.:																				
July 26	12.55 p. m.	[3] D. N. a. m.	.95	1.58 p. m.	2.26 p. m.	.01	.13	.29	.40	.45	.54	.59								
Phoenix, Ariz.[1]																				
Independence, Calif.[1]																				
MIDDLE PLATEAU.																				
Reno, Nev.[1]																				
Tonopah, Nev.[1]																				
Winnemucca, Nev.[1]																				
Modena, Utah:																				
July 15	4.45 p. m.	7.45 p. m.	1.80	4.45 p. m.	5.43 p. m.	.00	.13	.32	.38	.42	.53	.67	.85	1.09	1.33	1.44	1.75			
Aug. 31	[2] D. N. p. m.	D. N. a. m.	.61	12.18 a. m.	12.30 a. m.	.04	.15	.31	.37											
Salt Lake City, Utah[1]																				
Grand Junction, Colo., Aug. 24	4.15 p. m.	6.20 p. m.	.88	4.47 p. m.	5.20 p. m.	.03	.08	.17	.24	.34	.46	.59	.67							
NORTHERN PLATEAU.																				
Baker, Oreg.[1]																				
Boise, Idaho:																				
May 18	3.44 p. m.	5.00 p. m.	.73	3.48 p. m.	4.13 p. m.	.01	.15	.26	.42	.55	.64									
Lewiston, Idaho[1]																				
Pocatello, Idaho[1]																				
Spokane, Wash.[1]																				
Walla Walla, Wash.[1]																				

[1] No excessive precipitation. [2] On previous date. [3] On following date. [4] Defective record.

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 1921 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 PACIFIC COAST REGION.																				
North Head, Wash.[1]																				
Port Angeles, Wash.[1]																				
Seattle, Wash.:																				
Aug. 24	2.48 p. m.	3.45 p. m.	0.59	3.09 p. m.	3.24 p. m.	0.03	0.29	0.46	0.51											
Tacoma, Wash.[1]																				
Tatoosh Island, Wash.[1]																				
Portland, Oreg.[1]																				
Roseburg, Oreg.[1]																				
MIDDLE PACIFIC COAST REGION.																				
Eureka, Calif.[1]																				
Point Reyes, Calif.[1]																				
Red Bluff, Calif.[1]																				
Sacramento, Calif.:																				
Oct. 26	2.30 p. m.	2.50 p. m.	.66	2.33 p. m.	2.48 p. m.	.01	.18	.45	.63											
San Francisco, Calif.[1]																				
San Jose, Calif.[1]																				
SOUTH PACIFIC COAST REGION.																				
Fresno, Calif.[1]																				
Los Angeles, Calif.[1]																				
San Diego, Calif.:																				
Dec. 20	5.08 a. m.	2.15 p. m.	1.72	6.41 a. m.	7.11 a. m.	.14	.22	.47	.52	0.64	0.75	0.80								
San Luis Obispo, Calif.[1]																				
ISLAND POSSESSIONS.																				
San Juan, P. R.:																				
Jan. 19	[2] D.N. p. m.	9.30 a. m.	.90	4.22 a. m.	4.50 a. m.	.15	.08	.27	.32	.32	.47	.50								
May 1	11.59 a. m.	1.50 p. m.	1.08	12.03 p. m.	12.31 p. m.	.01	.13	.38	.61	.84	.95	1.00								
May 18	D.N. a. m.	6.35 a. m.	1.45	1.04 a. m.	1.25 a. m.	.05	.14	.34	.51	.59	.66									
May 22	D.N. a. m.	D.N. a. m.	.34	12.21 a. m.	12.31 a. m.	.01	.17	.31												
Do	2.49 p. m.	5.10 p. m.	1.08	4.02 p. m.	4.31 p. m.	.15	.30	.51	.60	.66	.73	.81								
May 30	5.15 p. m.	6.20 p. m.	.89	5.16 p. m.	5.43 p. m.	.01	.05	.10	.30	.56	.81	.86								
June 19	2.12 p. m.	3.00 p. m.	.77	2.15 p. m.	2.42 p. m.	.01	.18	.27	.47	.62	.72	.74								
July 2	10.02 a. m.	10.35 a. m.	.56	10.02 a. m.	10.25 a. m.	.00	.17	.34	.39	.51	.55									
July 21	D.N. a. m.	D.N. a. m.	1.02	1.16 a. m.	1.34 a. m.	.04	.16	.35	.65	.72										
July 30	11.57 a. m.	1.43 p. m.	.84	12.41 p. m.	12.53 p. m.	.22	.21	.36	.39											
Aug. 24	12.21 p. m.	1.10 p. m.	.69	12.52 p. m.	1.04 p. m.	.01	.28	.61	.68											
Do	1.58 p. m.	3.40 p. m.	1.08	3.05 p. m.	3.30 p. m.	.21	.15	.32	.50	.69	.81									
Sept. 9	7.40 p. m.	9.30 p. m.	.75	8.01 p. m.	8.12 p. m.	.11	.34	.44	.46											
Sept. 10	8.40 a. m.	9.45 a. m.	.73	8.42 a. m.	9.06 a. m.	.01	.10	.18	.42	.52	.62									
Sept. 14	12.26 p. m.	2.25 p. m.	.74	1.00 p. m.	1.16 p. m.	.04	.24	.43	.50	.63										
Sept. 18	D.N. a. m.	8.20 a. m.	.53	6.18 a. m.	6.25 a. m.	.07	.24	.35												
Sept. 27	8.24 p. m.	10.45 p. m.	.98	9.31 p. m.	9.54 p. m.	.02	.11	.23	.49	.80	.93									
Oct. 5	3.23 p. m.	8.20 p. m.	1.44	3.32 p. m.	4.21 p. m.	.02	.11	.20	.41	.63	.70	.91	1.09	1.12	1.21	1.33				
Oct. 7	2.45 p. m.	3.40 p. m.	.83	2.53 p. m.	3.20 p. m.	.03	.11	.32	.53	.60	.73	.79								
Oct. 8	4.28 p. m.	5.10 p. m.	1.11	4.44 p. m.	5.05 p. m.	.04	.23	.55	.90	1.06	1.07									
Nov. 22	2.47 p. m.	5.10 p. m.	1.17	4.41 p. m.	4.52 p. m.	.48	.25	.60	.67											
Honolulu, T. H.:																				
Oct. 3	D.N. a. m.	11.15 a. m.	2.76	4.56 a. m.	6.33 a. m.	.18	.14	.15	.23	.31	.36	.43	.48	.50	.57	.58	0.70	1.23	1.85	
Do	D.N. a. m.	11.15 a. m.	2.76	10.03 a. m.	10.19 a. m.	2.17	.17	.36	.48	.50										
Dec. 22	4.07 p. m.	7.15 p. m.	1.77	4.12 p. m.	5.50 p. m.	.02	.13	.28	.46	.54	.61	.73	.80	.88	.95	1.03	1.14	1.27	1.56	

[1] No excessive precipitation.

[2] On previous date.

PART III.

MONTHLY AND ANNUAL METEOROLOGICAL SUMMARIES FOR TWO HUNDRED AND TWELVE STATIONS DURING 1921.

EXPLANATION OF THE TABLES.

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

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

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

The monthly mean pressures recorded in the annual summary tables following have another correction, namely, to the mean of 24-hourly observations, applied to them, except as noted.

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, 1921.

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	28.311	28.680	27.950	41.5	57.2	53.0	61.8	38.3	50.0	79	19	32	31	32	68	41	47	0.196	0.193	0.197	0.68	0.38	3.6	5.2	4.9	5.1
February	28.239	28.630	27.730	39.3	57.2	55.1	62.6	36.6	49.6	83	24	29	31	31	70	43	44	.164	.178	.174	1.54	1.05	4.6	5.4	4.6	5.0
March	28.176	28.770	27.690	52.0	67.6	65.7	73.0	49.4	61.2	86	30	46	44	45	79	47	50	.333	.326	.328	.98	.46	5.0	5.9	4.1	5.2
April	28.125	28.830	27.570	51.2	72.0	70.4	76.5	49.4	63.0	94	30	38	35	37	62	28	32	.248	.221	.238	.30	.25	4.0	3.4	3.8	3.5
May	28.141	28.403	27.890	64.4	80.5	79.2	85.0	62.1	73.6	96	49	56	53	52	74	41	42	.455	.415	.401	1.46	.65	5.7	5.4	5.4	5.5
June	28.106	28.250	27.918	70.8	84.3	82.2	88.0	67.7	77.8	97	61	65	64	63	83	53	55	.623	.604	.585	8.22	4.03	6.1	5.4	5.4	5.7
July	28.174	28.320	27.815	73.9	89.7	90.1	94.3	71.8	83.0	100	66	65	63	59	75	42	37	.626	.573	.512	.44	.37	4.3	5.7	3.4	4.5
August	28.191	28.360	28.013	74.8	93.7	90.9	97.6	73.3	85.4	102	64	62	59	56	65	32	34	.560	.501	.457	.91	.88	2.9	2.8	3.1	2.8
September	28.149	28.340	27.975	71.2	88.3	85.1	92.2	69.9	81.0	98	48	65	62	58	82	42	41	.625	.563	.490	.94	.53	3.8	3.3	3.6	3.6
October	28.196	28.540	27.860	56.3	77.6	72.4	82.2	54.2	68.2	96	34	40	41	38	57	29	30	.269	.278	.246	.01	.01	1.6	2.0	.8	1.7
November	28.237	28.560	27.850	46.2	68.1	61.7	72.4	42.5	57.4	85	25	34	34	34	62	31	37	.212	.213	.213	.01	.01	3.2	3.9	2.6	3.9
December	28.289	28.650	27.720	40.0	58.9	53.3	64.4	34.9	49.6	81	15	26	27	26	58	32	36	.153	.167	.149	.12	.12	5.2	5.0	3.4	5.1
Year	28.194	28.830	27.570	56.8	74.6	71.6	79.2	54.2	66.6	102	15	46	45	44	70	38	40	.372	.353	.332	15.61	4.03	4.2	4.4	3.8	4.3

ALBANY, N. Y.

[ϕ=42° 39′ N.; λ=73° 45′ W.]

January	30.034	30.890	29.284	24.2	29.3	28.2	35.7	19.0	27.4	53	−4	20	21	22	81	70	76	0.118	0.121	0.126	0.66	0.24	5.7	4.9	4.0	4.8
February	29.976	30.427	29.310	24.2	30.5	29.6	36.1	19.4	27.8	52	4	20	24	24	84	75	80	.113	.128	.134	2.28	.84	7.7	6.2	3.9	5.6
March	30.026	30.549	29.510	39.8	47.1	43.8	52.9	32.5	42.7	78	18	34	34	34	79	63	70	.213	.219	.213	2.80	.91	5.7	5.7	5.5	5.2
April	29.940	30.380	29.540	48.2	58.0	56.0	63.8	42.7	53.2	82	27	41	41	43	76	57	64	.267	.272	.290	2.65	.77	4.5	5.0	4.8	4.3
May	29.904	30.296	29.590	56.5	66.2	64.5	71.4	50.4	60.9	92	39	45	47	48	67	52	57	.315	.344	.360	1.67	.59	3.1	2.8	2.7	3.0
June	29.845	30.230	29.410	64.8	74.8	71.9	79.6	57.2	68.4	94	44	54	53	51	68	49	56	.432	.420	.445	2.69	1.56	3.1	3.2	2.9	3.2
July	29.865	30.112	29.570	73.0	81.6	77.7	85.4	67.6	76.5	96	58	66	66	67	79	61	71	.645	.651	.672	4.57	1.11	4.2	4.3	2.8	4.2
August	29.959	30.246	29.500	65.0	75.1	71.2	79.1	59.2	69.2	91	50	57	55	58	75	52	64	.469	.454	.497	2.67	1.00	3.0	3.0	1.9	3.3
September	29.910	30.230	29.370	63.1	73.5	69.2	77.9	57.5	67.7	94	42	55	55	58	77	55	70	.454	.453	.492	1.44	.33	3.8	2.9	2.9	3.5
October	29.867	30.390	29.240	46.0	57.1	53.2	62.5	41.8	52.2	75	27	40	41	43	81	57	69	.257	.269	.284	1.59	.75	4.8	4.1	3.7	5.1
November	29.961	30.419	29.440	37.0	41.3	42.6	44.3	33.7	39.0	71	22	32	34	34	83	75	81	.190	.203	.204	5.50	1.90	8.2	7.7	7.0	7.9
December	29.912	30.654	29.250	23.9	29.7	27.7	34.7	18.5	26.6	60	−2	18	20	21	77	68	74	.108	.117	.120	1.19	.47	5.3	5.8	4.0	5.6
Year	29.933	30.890	29.240	47.1	55.4	53.0	60.3	41.6	51.0	96	−4	40	41	42	77	61	69	.298	.304	.320	29.71	1.90	4.9	4.6	3.8	4.6

ALPENA, MICH.

[ϕ=45° 05′ N.; λ=83° 30′ W.]

January	29.411	30.270	28.660	23.6	27.0	25.3	31.3	19.0	25.2	47	6	20	20	20	86	75	80	0.130	0.117	0.116	0.82	0.24	7.4	8.1	6.6	7.5
February	29.360	29.919	28.730	22.1	27.6	25.9	30.9	17.6	24.2	58	9	18	20	21	84	71	79	.101	.112	.114	.86	.22	7.7	8.2	7.0	7.7
March	29.338	30.130	28.570	30.8	35.4	33.0	41.0	25.1	33.0	70	10	27	28	28	85	76	82	.156	.164	.163	4.28	1.81	7.0	7.5	5.6	7.0
April	29.326	29.740	28.670	40.9	48.7	46.3	53.8	35.9	44.8	81	19	35	37	38	80	67	73	.211	.233	.237	2.52	.89	5.8	5.9	6.2	5.9
May	29.381	29.630	29.000	52.0	58.3	55.1	62.4	45.7	54.0	92	33	49	44	45	76	64	70	.306	.306	.312	2.48	1.89	5.8	5.5	5.3	5.5
June	29.348	29.780	29.050	64.5	68.0	65.7	72.5	54.4	63.4	90	36	54	55	56	72	65	72	.445	.452	.464	1.80	.90	4.4	4.3	4.4	4.2
July	29.331	29.536	28.910	72.3	79.9	75.9	82.7	64.7	73.7	91	54	64	65	65	75	62	69	.605	.633	.618	4.30	1.54	3.7	4.3	5.0	4.2
August	29.373	29.685	28.997	62.6	69.8	66.5	72.8	55.8	64.3	88	45	57	58	58	82	68	76	.468	.494	.493	4.15	1.53	6.0	5.9	4.3	5.7
September	29.284	29.670	28.750	59.7	70.5	64.2	72.8	53.9	63.4	89	40	55	58	56	86	66	75	.449	.499	.456	3.87	1.92	5.2	6.3	4.9	5.6
October	29.272	29.630	28.810	45.5	53.4	48.2	55.2	41.5	48.4	70	30	41	42	41	85	66	78	.265	.273	.265	2.48	.77	6.4	7.0	4.9	7.0
November	29.380	29.820	28.930	32.6	35.6	33.7	37.8	28.4	33.1	51	17	28	29	28	83	76	80	.156	.160	.157	2.22	.89	8.8	8.9	7.1	8.2
December	29.284	29.800	28.354	24.1	28.0	26.2	31.1	19.8	25.4	50	−4	21	23	21	87	79	80	.116	.126	.116	3.16	.96	8.6	8.3	8.1	8.3
Year	29.341	30.270	28.354	44.2	50.2	47.2	53.7	38.5	46.1	92	−4	39	40	40	82	70	76	.284	.297	.293	32.94	1.92	6.4	6.7	5.8	6.4

AMARILLO, TEX.

[ϕ=35° 13′ N.; λ=101° 50′ W.]

January	26.325	26.680	25.957	33.1	47.1	43.6	53.0	29.0	41.0	72	13	27	33	29	78	60	59	0.150	0.195	0.167	2.10	1.33	4.8	5.0	4.8	3.8
February	26.279	26.670	25.730	31.1	50.2	46.4	54.9	28.3	41.6	77	13	26	32	30	80	52	56	.139	.183	.166	1.19	.70	3.0	3.3	4.9	3.4
March	26.233	26.850	25.650	40.2	60.8	59.3	67.1	37.0	52.0	85	19	33	35	33	76	43	41	.192	.209	.191	.68	.32	5.3	3.6	4.1	3.5
April	26.174	26.860	25.610	42.2	64.1	63.0	69.7	40.2	55.0	89	23	33	32	32	70	34	36	.192	.189	.192	.39	.22	3.1	3.4	3.7	3.2
May	26.234	26.530	25.913	55.9	73.0	73.0	77.8	52.9	65.4	92	37	48	49	47	77	48	44	.354	.367	.338	2.09	.77	4.5	4.1	4.7	3.9
June	26.244	26.410	25.995	62.7	75.6	74.6	80.8	59.6	70.2	93	51	59	59	60	88	59	64	.502	.510	.518	7.75	1.60	4.8	4.4	5.3	4.1
July	26.328	26.510	25.896	67.0	79.5	80.1	84.6	65.1	74.8	94	61	62	62	63	85	58	58	.557	.568	.575	4.17	1.25	5.3	5.1	4.7	4.4
August	26.338	26.510	26.159	65.9	82.6	82.4	88.5	64.4	76.4	97	58	58	58	59	78	47	48	.495	.497	.502	5.77	3.70	3.7	3.3	3.0	3.0
September	26.261	26.490	26.060	62.2	79.6	77.8	86.2	60.8	73.5	96	42	55	54	55	79	44	48	.457	.438	.442	.76	.44	4.2	3.2	3.6	3.4
October	26.285	26.610	25.800	49.8	70.6	67.3	77.6	48.1	62.8	91	38	39	42	41	68	36	40	.245	.271	.264	.28	.12	3.8	2.0	1.6	2.5
November	26.287	26.600	25.890	37.0	59.2	54.9	66.9	35.2	51.0	80	17	28	33	34	65	40	47	.141	.190	.195	T.	T.	3.8	1.8	2.1	2.8
December	26.323	26.710	25.670	33.9	49.6	46.2	57.4	29.6	43.5	78	9	25	27	28	70	44	50	.136	.150	.152	.06	.05	4.1	4.5	3.8	4.2
Year	26.276	26.860	25.610	48.4	66.0	64.0	72.0	45.8	58.9	97	9	41	43	43	76	47	49	.297	.314	.308	25.24	3.70	4.2	3.6	3.8	3.5

Annual meteorological summary for the year ending December 31, 1921—Continued.

ABILENE, TEX.

[H_b=1,738 ft.; h_t=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	10.9	S.	38	S.	0	5	6	2	6	19	7	3	13	1	14	6	11	3	2	1	1	0	0	1	0	9	0	0
February	9.9	S.	35	NW.	0	9	9	5	2	10	6	7	7	1	11	7	10	5	4	2	1	0	0	0	0	11	2	0
March	11.7	S.	40	S.	1	10	5	3	10	26	5	2	1	0	10	12	9	6	4	0	0	0	0	0	0	2	4	0
April	13.3	S.	36	SW.	0	4	4	1	10	27	3	3	8	0	17	8	5	3	2	0	0	0	0	0	2	1	3	0
May	11.1	S.	34	W.	0	3	2	4	20	24	6	2	1	0	8	14	9	6	5	0	0	2	0	0	8	0	7	0
June	9.5	S.	44	NE.	1	3	7	9	11	25	3	1	1	0	7	13	10	14	13	0	0	0	0	0	12	0	12	0
July	9.1	S.	39	SW.	0	0	7	3	13	28	3	0	6	2	12	13	6	2	2	0	0	0	0	0	30	0	4	0
August	8.8	S.	26	SE.	0	2	1	1	21	31	4	1	1	0	20	9	2	3	1	0	0	0	0	0	29	0	4	0
September	10.7	S.	30	SE.	0	2	2	1	18	34	2	0	0	1	18	7	5	5	4	0	0	0	0	0	24	0	4	0
October	9.9	S.	34	N.	0	5	6	3	9	18	9	4	6	2	23	7	1	1	0	0	0	0	0	0	6	0	0	0
November	8.9	S.	27	SW.	0	6	3	2	6	24	9	5	3	2	15	6	9	1	0	0	0	0	0	0	0	2	0	0
December	9.4	S.	35	SW.	0	10	6	3	7	16	8	5	7	0	12	8	11	1	1	0	0	0	0	0	0	9	0	0
Year	10.3	S.	44	NE.	2	59	58	37	133	282	65	33	54	9	167	110	88	50	38	3	2	2	0	1	111	34	40	0

ALBANY, N. Y.

[H_b=97 ft.; h_t=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	8.8	S.	44	S.	1	2	2	1	0	28	4	4	21	0	11	11	9	12	4	11	7	0	0	9	0	26	0	0
February	7.5	S.	39	S.	0	6	9	1	1	22	1	4	12	0	10	9	9	9	9	15	6	0	0	10	0	25	0	0
March	9.9	S.	34	S.	0	4	5	1	1	28	6	0	17	0	12	12	7	16	10	3	0	0	2	0	0	12	3	0
April	8.1	S.	40	SE.	1	6	12	1	1	23	5	2	10	0	15	7	8	12	10	1	0	0	0	0	0	4	2	0
May	7.7	NE.	27	NE.	0	6	14	1	5	18	3	2	13	0	20	9	2	7	6	0	0	0	0	0	1	0	2	2
June	7.1	S.	28	NW.	0	3	10	0	4	22	6	3	12	0	21	4	5	9	7	0	0	0	1	0	3	0	7	0
July	5.8	S.	31	SW.	0	1	7	0	1	46	3	4	6	0	17	9	5	12	8	0	0	1	0	0	8	0	10	0
August	6.7	S.	28	S.	0	3	8	0	9	25	5	3	9	0	19	10	2	8	6	0	0	0	1	0	1	0	2	0
September	7.2	S.	33	S.	0	1	11	1	3	29	2	2	11	0	18	7	5	9	7	0	0	0	1	0	1	0	3	0
October	6.9	S.	37	S.	0	4	11	0	1	19	12	3	12	0	12	9	10	7	5	0	0	0	3	0	0	3	0	0
November	7.4	NW.	41	S.	1	10	10	0	0	17	5	2	16	0	6	3	21	17	14	9	4	0	1	0	0	14	1	0
December	8.4	NW.	43	S.	1	6	5	2	5	18	4	2	20	0	12	5	14	7	5	15	5	0	0	11	0	28	0	0
Year	7.6	S.	44	S.	4	52	104	8	31	289	56	31	159	0	173	95	97	125	91	54	22	1	9	30	14	112	30	2

ALPENA, MICH.

[H_b=609 ft.; h_t=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	11.9	W.	48	SE.	1	5	4	1	5	6	12	16	13	0	1	12	18	9	5	16	7	0	3	13	0	27	0	0
February	11.2	W.	42	SW.	1	4	6	0	6	10	5	14	11	0	2	8	18	11	8	19	11	0	0	17	0	28	0	0
March	13.6	NW.	46	SW.	1	6	3	5	10	8	7	10	13	0	5	10	16	19	13	11	7	1	7	5	0	24	6	0
April	12.9	NW.	42	NE.	4	3	9	7	10	5	12	2	12	0	9	9	12	11	10	3	1	0	4	1	0	9	2	1
May	11.3	SE.	58	NW.	1	10	1	7	15	2	5	7	15	0	10	15	6	7	3	2	1	1	2	0	1	0	5	0
June	9.1	SE.	40	NW.	1	3	7	5	14	6	5	8	12	0	16	7	7	5	3	0	0	0	0	0	1	0	4	0
July	8.1	SE.	56	S.	3	9	2	0	14	2	11	10	14	0	10	17	4	12	8	0	0	0	0	0	2	0	10	1
August	9.4	SE.	33	NW.	0	2	2	8	8	9	10	8	15	0	8	14	9	10	7	0	0	0	1	0	0	0	6	1
September	11.7	NW.	42	W.	2	2	1	4	10	6	12	8	17	0	8	13	9	13	9	0	0	0	1	0	0	0	7	3
October	11.7	NW.	44	NW.	1	6	7	5	8	4	7	6	18	1	3	12	16	14	11	1	0	0	2	0	0	3	1	0
November	10.7	NW.	36	NW.	0	8	6	3	4	9	7	8	15	0	1	9	20	17	13	16	10	0	3	5	0	20	1	0
December	12.3	NW.	44	NW.	3	4	2	0	7	7	10	11	21	0	2	7	22	16	11	18	14	0	3	20	0	30	0	1
Year	11.2	NW.	58	NW.	18	62	50	45	111	74	103	108	176	1	75	133	157	144	101	86	51	2	26	61	4	141	42	7

AMARILLO, TEX.

[H_b=3,676 ft.; h_t=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	11.4	SW.	35	NW.	0	5	5	3	10	7	15	9	8	0	19	7	5	6	5	4	2	0	1	2	0	20	3	0
February	10.8	SW.	42	SW.	2	8	3	1	4	14	11	6	9	0	17	9	2	4	4	4	4	0	1	3	0	19	0	0
March	13.0	SW.	40	SW.	1	9	3	1	5	13	20	4	7	0	19	9	3	5	4	4	4	0	0	0	0	10	1	0
April	12.9	SW.	40	N.	1	6	4	2	6	14	17	4	7	0	21	9	0	3	3	1	0	0	1	0	0	5	2	0
May	12.8	SE.	35	SE.	0	2	3	6	18	18	7	3	5	0	16	12	3	10	7	0	0	2	0	0	3	0	7	0
June	9.3	S.	36	S.	0	4	2	7	14	17	4	3	9	0	12	17	1	16	14	0	0	2	0	0	2	0	10	0
July	9.0	S.	26	S.	0	3	5	6	13	17	9	4	5	0	14	15	2	12	11	0	0	0	0	0	5	0	5	0
August	8.8	S.	29	SW.	0	4	1	3	13	20	13	6	2	0	23	8	0	6	5	0	0	1	0	0	14	0	5	0
September	11.8	S.	32	NW.	0	7	1	2	11	25	13	0	1	0	16	13	1	6	4	0	0	0	0	0	11	0	6	0
October	11.8	SW.	38	N.	0	6	5	2	7	9	17	6	10	0	26	5	0	4	3	0	0	0	0	0	4	0	0	0
November	10.2	SW.	37	S.	0	3	5	2	5	11	17	6	11	0	22	8	0	0	0	1	0	0	0	0	0	8	0	0
December	11.4	SW.	42	SW.	2	9	5	2	7	9	13	5	12	0	15	10	6	2	1	2	·1	0	0	0	0	18	0	0
Year	11.1	S.	42	SW.	6	66	42	37	113	174	156	56	86	0	220	122	23	74	61	16	11	5	3	5	39	80	39	0

Annual meteorological summary for the year ending December 31, 1921—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	29.417	29.900	29.030	40.8	53.1	46.3	57.0	36.6	46.8	69	27	35	36	....	80	55	....	0.215	0.227	.....	3.83	1.42	6.2	5.0	4.2	5.3
February	29.304	29.570	28.870	42.7	53.2	49.9	59.1	38.0	48.6	75	25	38	38	....	84	59	....	.248	.253	.....	7.75	4.25	5.1	5.6	4.2	4.9
March	29.357	29.620	29.110	56.1	69.0	63.5	73.7	51.5	62.6	84	31	51	51	....	84	57	....	.402	.410	.....	3.75	1.08	5.9	4.6	4.1	4.9
April	29.311	29.630	28.920	55.2	68.0	62.0	72.7	48.5	60.6	85	32	47	45	....	73	45	....	.342	.320	.....	4.65	2.24	4.2	3.2	4.0	3.9
May	29.243	29.500	28.970	64.4	76.6	69.2	80.5	56.4	68.4	92	39	56	55	....	74	49	....	.459	.448	.....	3.14	2.53	4.1	4.3	4.8	4.4
June	29.246	29.440	29.030	76.2	86.9	79.9	91.2	68.2	79.7	98	62	64	64	....	68	47	....	.617	.589	.....	2.11	.87	3.5	4.1	5.2	4.2
July	29.270	29.497	29.020	76.0	87.5	79.7	91.3	69.8	80.6	98	66	69	68	....	80	54	....	.713	.695	.....	4.38	1.51	3.8	3.4	6.0	4.1
August	29.323	29.470	29.170	73.6	85.8	77.1	89.4	68.2	78.8	102	59	69	69	....	86	58	....	.703	.707	.....	3.04	.74	4.6	4.8	5.1	5.0
September	29.298	29.422	29.140	73.3	87.9	76.3	91.5	67.5	79.5	97	62	68	66	....	84	51	....	.689	.648	.....	3.74	1.00	3.1	3.0	4.8	3.5
October	29.272	29.650	28.940	52.1	70.3	59.0	73.5	47.6	60.6	84	35	46	46	....	80	43	....	.327	.324	.....	2.92	1.29	3.1	2.4	2.6	2.5
November	29.321	29.590	28.900	48.5	62.6	53.9	66.5	44.5	55.5	80	30	45	46	....	88	58	....	.324	.342	.....	4.35	1.08	5.9	4.5	4.5	5.5
December	29.336	29.610	28.860	42.9	55.6	48.7	59.7	36.6	48.2	73	25	38	38	....	82	54	....	.240	.242	.....	3.70	1.89	5.6	5.3	3.4	5.4
Year	29.308	29.900	28.860	58.5	71.4	63.8	75.5	52.8	64.2	102	25	52	52	....	80	52	....	.440	.434	.....	47.36	4.25	4.6	4.2	4.4	4.5

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	27.807	28.310	27.310	33.9	42.9	40.2	48.0	30.2	39.1	65	20	28	30	30	79	63	69	0.160	0.175	0.177	3.35	1.23	6.6	6.3	4.4	6.4
February	27.694	27.970	27.260	36.3	45.3	43.5	50.6	33.8	42.2	71	22	32	32	33	85	61	70	.190	.189	.199	3.85	1.22	6.1	6.2	6.4	6.0
March	27.799	28.023	27.520	48.9	62.9	57.8	67.1	44.7	55.9	81	28	43	42	44	81	49	62	.299	.285	.305	2.12	.70	5.2	5.3	5.1	4.9
April	27.737	28.030	27.320	49.2	61.5	57.8	65.9	44.4	55.2	83	28	41	39	40	75	47	54	.279	.262	.270	2.97	1.79	4.0	4.9	5.2	4.5
May	27.698	28.010	27.400	55.2	66.9	62.2	70.3	50.7	60.5	85	38	50	48	50	84	55	68	.377	.357	.385	2.85	1.14	5.3	6.5	6.0	5.5
June	27.741	27.942	27.480	66.8	78.1	72.0	81.0	62.5	71.8	87	54	62	62	63	84	58	74	.557	.554	.580	4.74	1.63	6.0	6.0	6.6	5.5
July	27.771	28.012	27.570	67.9	79.1	73.2	82.5	64.0	73.2	89	60	64	63	65	88	59	76	.603	.574	.621	5.15	2.00	6.1	6.5	7.0	5.5
August	27.821	27.990	27.680	65.5	76.0	70.7	79.2	62.1	70.6	92	54	62	62	63	89	63	77	.563	.555	.575	2.86	.60	5.6	6.7	6.1	5.4
September	27.784	27.930	27.620	64.2	79.2	71.6	82.3	61.1	71.7	89	50	62	62	63	94	56	76	.565	.552	.588	1.57	.36	3.3	5.5	4.1	5.3
October	27.712	28.160	27.280	44.4	62.7	57.2	66.7	41.7	54.2	79	28	39	39	41	82	44	57	.250	.252	.270	2.25	1.46	3.2	2.9	2.4	2.8
November	27.728	28.030	27.170	43.2	54.4	51.2	59.4	40.1	49.8	75	25	39	39	39	80	59	66	.254	.255	.257	2.31	.49	6.7	5.8	5.2	5.7
December	27.705	28.140	27.190	38.4	47.9	43.6	52.0	34.4	43.2	67	23	32	30	32	77	53	63	.187	.178	.186	1.38	.81	5.6	5.1	4.7	5.4
Year	27.750	28.310	27.170	51.2	63.1	58.4	67.1	47.5	57.3	92	20	46	46	47	84	56	68	.357	.349	.368	35.40	2.00	5.3	5.6	5.3	5.2

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	28.954	29.470	28.540	41.3	49.9	48.4	53.7	38.1	45.9	67	27	34	38	36	76	65	65	0.213	0.240	0.224	3.53	1.31	6.0	5.7	3.1	6.1
February	28.841	29.080	28.430	43.2	51.7	51.4	58.5	39.7	48.1	72	27	38	40	39	83	67	67	.249	.271	.256	7.37	3.34	4.9	5.2	4.1	5.6
March	28.919	29.170	28.670	54.7	66.0	65.2	71.0	51.2	61.1	81	34	49	51	50	82	61	61	.370	.398	.386	1.64	.55	5.9	4.7	2.8	5.5
April	28.855	29.090	28.460	55.3	66.7	64.2	70.8	51.3	61.0	83	34	46	47	47	72	51	53	.337	.344	.341	3.31	1.67	4.5	4.6	2.8	4.6
May	28.787	29.046	28.540	63.2	73.3	71.9	77.7	59.1	68.4	91	42	54	54	55	73	52	58	.439	.436	.459	1.75	.87	5.1	6.0	5.0	5.8
June	28.808	29.016	28.580	73.6	84.4	80.8	88.3	69.3	78.8	95	64	64	64	64	74	51	59	.611	.593	.609	1.56	1.10	3.8	5.3	5.9	5.9
July	28.838	29.080	28.610	73.3	83.8	79.9	87.6	69.9	78.8	96	66	68	68	69	86	60	72	.697	.692	.720	3.88	.78	6.8	6.0	6.2	6.5
August	28.898	29.030	28.740	72.1	80.5	77.7	84.9	68.5	76.7	97	61	68	68	69	86	68	76	.678	.696	.711	8.03	3.21	5.1	6.4	5.7	7.1
September	28.857	29.010	28.720	73.2	85.4	80.6	89.1	69.8	79.4	94	58	67	67	67	82	56	65	.667	.673	.669	1.31	.68	2.6	3.6	3.4	4.4
October	28.810	29.190	28.455	54.3	67.0	64.3	70.9	51.2	61.0	80	40	45	49	50	73	55	60	.315	.370	.370	2.85	1.51	2.9	3.2	2.4	3.7
November	28.858	29.130	28.375	49.3	58.5	57.5	63.1	46.3	54.7	75	33	44	46	49	84	68	74	.310	.340	.362	6.47	3.23	6.1	5.4	4.4	5.9
December	28.865	29.214	28.440	44.0	52.9	50.6	55.7	40.2	48.3	68	29	38	42	41	81	67	71	.241	.269	.268	1.79	.76	5.5	5.1	3.7	5.6
Year	28.858	29.470	28.375	58.1	68.3	65.0	72.5	54.6	63.5	97	27	51	53	53	79	60	65	.427	.444	.448	43.49	3.34	4.9	5.1	4.1	5.6

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	30.107	30.884	29.480	33.3	38.9	36.9	42.5	29.0	35.8	58	8	25	27	28	74	64	70	0.154	0.163	0.165	1.91	1.31	6.0	6.2	4.6	5.7
February	30.015	30.510	29.350	34.8	40.9	38.4	43.7	31.6	37.6	62	15	30	30	31	82	68	75	.174	.174	.179	3.74	1.65	5.0	6.5	4.7	5.4
March	30.111	30.530	29.730	45.4	50.3	48.0	54.2	41.3	47.8	72	26	39	39	41	80	68	78	.256	.259	.269	2.55	1.05	5.7	4.2	3.5	4.7
April	30.000	30.365	29.520	51.1	54.9	52.6	58.7	47.1	52.9	73	30	46	46	48	83	74	84	.319	.323	.336	3.16	.84	6.2	5.9	4.7	5.6
May	29.939	30.376	29.540	58.2	60.5	56.5	63.6	51.6	57.6	84	45	50	50	50	77	72	81	.375	.375	.372	3.37	1.34	5.8	5.5	5.8	5.3
June	29.921	30.220	29.579	68.1	71.6	67.3	74.3	61.1	67.7	94	51	58	58	58	72	65	74	.495	.493	.493	1.48	1.29	4.1	4.1	5.5	3.9
July	29.944	30.230	29.620	73.9	76.5	72.9	79.0	69.5	74.2	93	63	69	69	69	85	79	88	.707	.717	.709	3.29	1.81	5.5	4.8	4.8	4.9
August	30.030	30.212	29.680	70.6	74.8	71.1	76.8	65.0	70.9	90	56	62	62	63	77	66	76	.578	.566	.581	4.56	1.74	4.5	3.6	3.6	3.6
September	29.982	30.230	29.650	70.5	75.7	71.5	77.3	66.0	71.6	93	56	64	65	64	82	71	80	.617	.635	.617	1.51	.59	5.4	4.0	3.6	4.6
October	29.960	30.476	29.410	54.5	61.5	57.7	63.9	49.7	56.8	73	38	48	49	50	80	65	76	.351	.350	.369	1.37	1.11	3.7	3.4	2.1	3.3
November	30.001	30.401	29.480	46.2	50.6	49.2	54.4	42.0	48.2	66	29	42	43	44	86	77	82	.281	.290	.294	6.69	1.71	6.8	5.9	6.1	6.2
December	29.993	30.664	29.290	33.9	40.1	36.5	43.1	28.7	35.9	57	11	29	29	29	81	65	73	.170	.171	.168	2.30	.59	5.5	4.8	4.5	5.0
Year	30.000	30.884	29.290	53.4	58.0	54.9	61.0	48.6	54.8	94	8	47	47	48	80	70	78	.372	.378	.379	35.93	1.81	5.4	4.9	4.5	4.8

Annual meteorological summary for the year ending December 31, 1921—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 tem. 32° or below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January....	6.0	NW.	34	SE.	0	7	0	4	12	6	5	5	21	2	11	12	8	13	8	4	3	0	1	0	0	9	1	0
February...	6.3	NW.	25	SE.	0	12	0	3	7	13	3	4	12	2	11	9	8	12	11	0	0	1	0	0	0	7	5	0
March.....	6.3	S.	24	SE.	0	3	1	2	17	14	12	7	5	1	11	13	7	12	11	0	0	0	1	0	0	1	7	0
April.....	6.4	SE.	23	NW.	0	5	1	1	22	5	4	1	19	2	13	12	5	6	5	0	0	0	0	0	0	2	4	0
May.....	4.8	NW.	24	NW.	0	6	4	8	9	10	2	2	15	6	12	14	5	9	5	0	0	1	0	0	6	0	6	0
June.....	4.1	SE.	26	SW.	0	6	2	4	19	7	4	4	10	4	12	15	3	6	4	0	0	1	0	0	18	0	14	0
July.....	3.9	S.	26	N.	0	3	4	8	10	19	3	4	6	5	15	15	1	13	11	0	0	0	0	0	23	0	19	0
August.....	3.9	SE.	22	SE.	0	8	2	4	14	20	8	0	1	5	7	20	4	14	12	0	0	0	0	0	15	0	11	0
September..	3.1	S.	23	SW.	0	8	2	3	10	9	7	5	4	12	18	10	2	15	12	0	0	0	0	0	22	0	13	0
October....	5.3	SE.	22	NW.	0	6	3	6	14	6	7	5	10	5	21	5	5	8	6	0	0	0	0	0	0	0	3	0
November..	5.4	NW.	24	NW.	0	3	0	2	11	11	4	5	15	9	12	4	14	10	8	0	0	0	0	0	0	4	4	0
December..	6.1	NW.	23	S.	0	5	0	1	15	5	7	9	15	5	13	5	13	10	7	0	0	0	0	0	0	10	1	0
Year..	5.1	SE.	34	SE.	0	72	19	46	160	125	66	51	133	58	156	134	75	128	100	4	3	3	2	0	84	33	88	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....	8.8	NW.	35	NW.	0	14	1	4	12	8	1	5	16	1	7	10	14	11	8	8	5	0	3	2	0	18	0	0
February...	9.5	NW.	31	E.	0	5	0	1	17	6	2	1	24	0	9	5	14	14	8	8	4	0	2	0	0	16	1	0
March.....	9.9	SE.	32	NW.	0	7	0	3	31	8	1	1	11	0	13	6	12	9	6	0	0	0	1	0	0	4	1	0
April.....	10.5	SE.	39	E.	0	7	1	1	23	7	1	0	19	1	13	9	8	8	5	2	0	0	1	0	0	4	3	0
May.....	7.5	NW.	36	N.	0	5	1	4	15	5	0	2	26	4	9	12	10	15	11	0	0	0	6	0	0	0	6	0
June.....	6.0	NW.	42	E.	1	7	3	5	10	11	1	1	22	0	4	21	5	12	10	0	0	1	2	0	0	0	17	0
July.....	5.5	SE.	26	E.	0	4	1	8	17	9	5	2	15	1	4	25	2	13	10	0	0	0	8	0	0	0	17	0
August.....	6.0	SE.	26	E.	0	4	0	5	27	6	2	1	14	3	10	11	10	12	11	0	0	0	6	0	2	0	8	0
September..	4.6	NW.	27	N.	0	4	3	4	11	10	3	3	18	4	6	19	5	12	9	0	0	0	13	0	0	0	9	0
October....	7.5	NW.	33	NW.	0	5	0	3	21	7	1	2	20	3	20	7	4	9	4	0	0	0	4	0	0	2	0	0
November..	9.2	NW.	39	NW.	0	9	0	0	21	4	0	1	21	4	10	6	14	11	10	2	1	0	0	0	0	3	1	0
December..	10.7	NW.	44	SE.	1	5	0	0	19	6	2	0	30	0	12	6	13	6	5	0	0	0	0	0	0	14	0	0
Year..	8.0	NW.	44	SE.	2	76	10	38	224	87	19	19	236	21	117	137	111	132	97	20	10	1	46	2	2	61	63	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....	11.7	NW.	36	NW.	0	2	0	13	8	4	3	9	23	0	8	7	16	9	8	2	1	0	4	0	0	9	0	0
February...	11.9	NW.	40	NW.	1	0	2	9	11	6	2	10	16	0	12	1	15	10	10	1	1	1	6	0	0	3	4	0
March.....	11.6	S.	52	W.	1	0	0	11	9	15	2	12	13	0	10	8	13	9	6	0	0	0	4	0	0	0	3	0
April.....	12.2	NW.	36	NW.	0	1	2	9	13	9	3	3	20	0	12	8	10	5	4	0	0	0	0	0	0	0	3	0
May.....	10.5	NW.	56	NW.	2	3	4	13	9	5	1	7	20	0	9	10	12	7	5	0	0	0	0	0	5	0	2	1
June.....	9.0	NW.	46	NW.	1	0	6	8	6	7	2	9	22	0	7	12	11	6	5	0	0	0	0	0	12	0	8	0
July.....	8.5	SE.	31	SE.	0	3	7	11	12	9	2	7	11	0	9	5	17	13	12	0	0	1	0	0	8	0	13	0
August.....	8.2	NW.	36	NW.	0	4	8	12	11	6	1	10	9	1	5	6	20	13	9	0	0	0	2	0	6	0	11	0
September..	7.2	NW.	48	NW.	1	2	4	7	7	7	4	11	18	0	14	11	5	7	6	0	0	0	2	0	19	0	5	0
October....	11.7	NW.	40	NW.	2	3	6	13	7	9	1	8	15	0	19	3	9	6	6	0	0	0	1	0	0	0	0	0
November..	11.8	NW.	42	W.	1	1	3	8	12	6	0	9	21	0	11	3	16	9	7	0	0	0	5	0	0	0	4	0
December..	13.2	W.	42	W.	4	5	3	4	12	2	7	14	15	0	11	4	16	9	6	0	0	0	0	0	0	2	0	0
Year..	10.6	NW.	56	NW.	13	24	45	118	117	85	28	109	203	1	127	78	160	103	84	3	2	2	24	0	50	14	53	1

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....	8.2	NW.	34	S.	0	3	9	3	2	4	8	17	16	0	11	6	14	9	5	2	2	0	1	4	0	17	0	0
February...	8.1	NW.	34	NE.	0	9	6	4	5	2	6	9	15	0	7	11	10	9	6	3	3	0	1	0	0	13	0	0
March.....	8.4	SW.	28	S.	0	2	6	5	6	11	19	1	12	0	10	16	5	13	9	0	0	0	1	0	0	3	0	0
April.....	8.3	SW.	26	SE.	0	3	7	6	4	9	16	3	12	0	11	4	15	13	11	1	1	0	1	0	0	2	1	0
May.....	8.8	NE.	31	NE.	0	5	12	9	3	9	12	5	7	0	11	8	12	10	9	0	0	0	0	0	0	0	1	1
June.....	7.3	SW.	23	NE.	0	1	11	6	6	9	14	5	8	0	17	6	7	8	5	0	0	0	0	0	1	0	4	0
July.....	6.9	SW.	20	W.	0	3	15	4	1	10	23	3	3	0	12	9	10	9	7	0	0	0	0	0	1	0	10	0
August.....	6.7	S.	19	NE.	0	5	10	3	3	11	11	8	9	2	17	7	7	11	8	0	0	0	0	0	0	0	4	0
September..	6.9	S.	27	S.	0	8	4	4	10	13	7	8	5	1	14	8	8	5	3	0	0	0	2	0	1	0	2	0
October....	7.5	W.	26	S.	0	3	5	6	1	11	7	16	13	0	17	10	4	4	3	0	0	0	0	0	0	0	0	0
November..	8.0	NW.	28	NE.	0	7	10	1	3	5	12	8	14	0	10	6	14	13	12	0	0	1	0	0	0	2	1	0
December..	11.7	NW.	60	S.	5	6	0	1	4	6	8	17	20	0	14	3	14	8	5	5	3	0	0	3	0	22	0	0
Year..	8.1	SW.	60	S.	5	55	95	52	48	100	143	100	134	3	151	94	120	112	83	11	9	1	6	7	3	59	23	1

Annual meteorological summary for the year ending December 31, 1921—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	30.014	30.600	29.620	41.1	53.2	50.9	58.7	38.2	48.4	73	26	36	37	39	83	56	66	0.231	0.241	0.255	2.84	1.11	5.4	6.1	3.8	5.8
February	29.806	30.180	29.450	44.6	55.9	54.7	61.5	42.6	52.0	80	32	40	43	44	84	64	69	.260	.299	.307	3.85	1.54	5.8	6.0	4.2	5.7
March	29.963	30.219	29.680	57.2	71.1	68.0	76.6	54.4	65.5	88	38	52	53	52	82	54	59	.406	.418	.409	1.40	.75	5.5	5.7	5.0	5.6
April	29.886	30.157	29.530	59.4	72.1	67.2	76.6	52.4	64.5	86	36	52	53	52	77	52	60	.411	.426	.412	1.25	.55	4.3	5.4	3.8	5.1
May	29.792	30.105	29.560	66.4	76.4	72.9	80.8	60.2	70.5	95	46	58	60	61	76	58	68	.507	.525	.551	4.21	1.50	5.3	6.4	6.3	6.5
June	29.797	30.065	29.490	76.9	88.1	82.4	91.9	70.3	81.1	101	60	67	64	66	72	45	60	.670	.599	.649	4.56	1.41	3.8	4.8	5.8	5.2
July	29.834	30.086	29.590	76.8	85.1	79.5	88.8	71.8	80.3	97	69	71	71	72	84	64	78	.769	.758	.774	6.02	1.44	7.0	7.1	6.6	7.4
August	29.890	30.070	29.730	75.6	84.7	79.5	88.5	71.2	79.8	98	64	70	69	71	84	61	76	.739	.720	.755	2.01	.48	5.3	6.4	5.3	5.9
September	29.849	29.991	29.640	75.9	89.0	81.3	92.0	71.3	81.6	100	65	70	67	70	83	50	69	.737	.672	.726	2.33	1.25	3.5	4.4	4.1	4.7
October	29.835	30.280	29.484	57.1	71.9	65.3	75.5	51.7	63.6	87	40	50	50	52	79	49	64	.381	.389	.412	.55	.19	3.5	3.7	2.7	3.7
November	29.894	30.194	29.380	51.7	63.5	59.6	68.3	48.6	58.4	80	33	48	49	51	88	63	74	.353	.377	.395	4.34	2.48	5.1	6.2	4.6	5.9
December	29.913	30.337	29.440	45.2	57.7	54.1	62.8	42.5	52.6	74	29	40	43	42	83	59	65	.260	.290	.279	.93	.36	4.5	4.9	4.4	4.9
Year	29.880	30.600	29.380	60.7	72.4	68.0	76.8	56.3	66.5	101	26	54	55	56	81	56	67	.477	.476	.494	34.29	2.48	4.9	5.6	4.7	5.5

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	26.437	26.833	25.900	26.5	31.3	30.8	35.7	21.3	28.5	48	5	22	24	24	81	74	73	0.120	0.130	0.125	2.21	0.52	6.2	7.1	6.7	6.5
February	26.518	26.970	25.920	23.6	32.7	32.2	36.4	19.5	28.0	49	−1	20	24	25	83	69	73	.111	.129	.134	1.35	.54	4.8	6.7	7.1	6.6
March	26.412	26.850	25.950	32.6	44.4	45.4	48.3	29.5	38.9	63	20	27	28	30	80	53	54	.149	.157	.166	.50	.13	3.8	4.1	5.2	4.2
April	26.430	26.740	26.120	33.2	47.5	48.3	51.9	31.1	41.5	70	22	28	29	32	82	50	54	.157	.164	.181	.66	.15	7.0	6.0	6.6	5.4
May	26.351	26.670	25.990	41.8	59.1	59.6	63.5	40.0	51.8	75	28	36	35	36	79	42	46	.214	.208	.222	2.09	.99	5.2	4.8	5.5	4.8
June	26.404	26.590	26.130	49.5	69.4	71.5	74.6	48.0	61.3	89	38	44	45	44	81	44	41	.293	.310	.293	.81	.25	3.7	4.8	5.2	5.1
July	26.476	26.640	26.240	49.7	75.2	79.8	82.1	48.0	65.0	93	34	37	41	42	62	30	28	.221	.262	.276	.08	.08	1.2	.9	1.4	1.5
August	26.449	26.630	26.179	51.2	76.2	80.1	82.6	49.7	66.2	92	41	38	44	42	64	34	28	.237	.299	.276	.18	.08	2.0	3.1	2.7	3.3
September	26.458	26.700	26.110	39.4	59.2	60.8	64.3	36.3	50.3	80	21	33	38	45	78	46	45	.193	.229	.230	.80	.42	3.6	3.6	4.3	4.3
October	26.502	26.880	26.130	38.9	59.5	59.3	64.1	35.5	49.8	82	25	31	34	35	71	41	45	.172	.201	.211	.27	.14	3.0	3.8	4.0	3.9
November	26.458	26.780	26.050	34.0	45.5	43.9	49.2	30.2	39.7	65	16	28	32	32	77	61	65	.152	.180	.180	2.47	1.08	5.1	6.7	7.5	7.0
December	26.518	27.060	25.860	26.9	33.6	32.2	37.6	23.7	30.6	49	12	22	25	25	82	70	74	.120	.138	.103	.97	.55	5.8	5.6	6.4	6.6
Year	26.451	27.060	25.860	37.3	52.8	53.7	57.5	34.4	46.0	93	−1	30	33	34	77	51	52	.178	.201	.200	13.29	1.08	4.3	4.8	5.2	4.9

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	30.052	30.840	29.370	33.5	39.9	37.5	43.8	30.1	37.0	66	10	24	25	25	68	54	60	0.142	0.145	0.145	2.05	1.41	6.5	7.0	4.2	6.4
February	29.957	30.420	29.310	34.8	42.1	40.9	45.7	32.4	39.0	73	20	28	30	30	75	63	66	.156	.169	.170	2.85	1.61	7.4	7.2	5.1	6.5
March	30.024	30.460	29.610	49.0	59.1	56.0	64.7	44.6	54.6	88	26	41	43	45	74	53	65	.280	.301	.309	2.60	.75	5.1	5.3	4.0	5.4
April	29.926	30.284	29.400	54.9	63.8	60.6	67.9	49.4	58.6	80	31	45	45	46	71	53	62	.321	.325	.333	2.59	.88	6.1	5.8	5.1	5.7
May	29.870	30.292	29.470	60.4	67.8	64.8	71.4	54.8	63.1	90	45	50	49	52	72	56	66	.381	.367	.411	5.99	2.12	6.0	6.4	6.3	6.1
June	29.852	30.170	29.520	72.2	80.6	77.2	84.4	65.5	75.0	96	54	58	57	59	64	47	55	.509	.491	.513	1.97	1.59	4.6	5.0	5.8	4.5
July	29.868	30.140	29.560	77.6	85.3	80.6	88.1	72.3	80.2	96	66	68	67	70	73	56	71	.689	.678	.736	4.93	1.43	4.9	5.8	5.4	5.4
August	29.960	30.170	29.600	70.8	78.1	75.4	81.7	66.1	73.9	94	59	61	60	62	72	55	64	.549	.525	.564	3.49	1.49	3.7	5.0	4.2	4.5
September	29.897	30.160	29.540	71.1	79.2	75.1	82.0	67.0	74.5	96	60	62	62	63	74	57	67	.567	.569	.586	3.19	2.53	5.5	5.8	4.4	5.4
October	29.885	30.430	29.360	52.9	63.5	59.3	67.2	48.4	57.8	78	38	43	44	46	71	50	62	.289	.296	.321	1.61	1.55	3.8	3.2	1.7	3.3
November	29.934	30.350	29.340	44.7	51.0	48.7	54.7	41.5	48.1	75	31	38	38	40	78	64	72	.242	.246	.258	4.37	1.32	6.1	7.1	5.5	6.6
December	29.932	30.600	29.290	34.5	40.1	37.9	43.9	30.5	37.2	60	12	26	28	27	70	61	65	.147	.157	.156	2.08	.64	6.2	5.6	4.2	5.8
Year	29.930	30.840	29.290	54.7	62.5	59.5	66.3	50.2	58.2	96	10	45	46	47	72	56	65	.356	.356	.375	37.72	2.53	5.5	5.8	4.7	5.5

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	29.187	29.950	28.500	23.2	30.0	....	34.9	19.7	27.3	51	−3	20	22	....	85	71	....	0.113	0.127	....	1.68	0.39	7.0	6.4	....	6.5
February	29.103	29.560	28.430	24.9	32.6	....	36.8	18.9	27.8	60	−5	21	23	....	84	67	....	.115	.127	....	3.06	1.11	7.5	7.4	....	7.4
March	29.173	29.650	28.780	41.0	47.8	....	54.5	32.2	43.4	82	12	34	35	....	78	63	....	.220	.231	....	2.79	.80	7.2	7.1	....	7.3
April	29.103	29.420	28.610	47.6	60.7	....	65.9	41.8	53.8	86	22	42	45	....	79	59	....	.280	.324	....	3.04	1.06	5.4	5.2	....	5.8
May	29.085	29.452	28.810	54.5	65.5	....	70.4	48.0	59.2	88	32	49	53	....	81	66	....	.356	.413	....	3.31	.91	5.3	6.3	....	5.8
June	29.067	29.420	28.730	63.7	75.1	....	79.9	55.3	67.6	92	39	57	58	....	80	57	....	.482	.498	....	1.50	.45	3.9	5.2	....	5.0
July	29.079	29.325	28.800	71.4	82.9	....	87.0	65.1	76.0	96	55	65	65	....	81	56	....	.619	.625	....	5.56	1.87	5.5	5.4	....	5.4
August	29.158	29.421	28.750	62.1	73.8	....	78.5	56.1	67.3	92	45	56	56	....	82	55	....	.464	.451	....	2.64	.64	5.5	5.1	....	4.9
September	29.098	29.369	28.650	60.9	73.9	....	77.9	56.2	67.0	93	42	56	57	....	84	57	....	.455	.473	....	3.20	1.08	4.9	4.9	....	5.4
October	29.049	29.560	28.520	44.0	56.8	....	62.9	40.1	51.5	76	25	39	41	....	83	58	....	.243	.265	....	2.91	1.03	6.8	5.8	....	5.7
November	29.090	29.550	28.620	38.3	42.5	....	45.1	34.3	39.7	72	24	34	35	....	85	74	....	.206	.212	....	5.89	1.65	8.4	8.6	....	8.7
December	29.040	29.608	28.454	25.6	31.0	....	35.1	19.8	27.4	57	−1	22	23	....	84	70	....	.119	.126	....	1.75	.52	8.2	7.1	....	7.5
Year	29.103	29.950	28.430	46.4	56.0	....	60.7	40.6	50.7	96	−5	41	43	....	82	63	....	.306	.323	....	37.33	1.87	6.3	6.2	....	6.3

Annual meteorological summary for the year ending December 31, 1921—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	5.4	NW.	22	NW.	0	2	8	7	4	10	4	4	20	3	9	8	14	9	8	1	1	0	7	0	0	5	0	0
February	5.3	NW.	28	NW.	0	6	9	4	4	4	6	6	16	1	9	6	13	11	8	1	0	0	3	0	0	2	2	0
March	5.7	S.	24	W.	0	5	7	8	13	9	4	4	9	3	9	12	10	8	6	0	0	0	2	0	0	0	4	0
April	6.2	NW.	36	NW.	0	7	6	5	13	6	3	2	10	2	8	14	8	5	5	0	0	0	0	0	0	0	5	0
May	5.7	NW.	25	NW.	0	4	14	10	5	3	4	4	17	1	4	13	14	9	7	0	0	1	1	0	6	0	3	0
June	5.2	S.	36	SE.	0	4	9	8	8	13	3	6	9	0	8	17	5	9	7	0	0	0	0	0	20	0	9	0
July	5.0	S.	30	E.	0	3	6	12	4	18	8	5	6	0	2	12	17	17	13	0	0	0	1	0	16	0	16	0
August	4.4	S.	26	NW.	0	6	12	7	8	13	6	4	6	0	6	14	11	14	11	0	0	0	1	0	12	0	11	0
September	3.8	S.	23	NW.	0	2	6	7	14	8	7	2	12	2	9	17	4	8	7	0	0	0	1	0	24	0	8	0
October	5.6	NW.	28	NE.	0	7	14	3	5	8	5	1	14	5	16	8	7	6	5	0	0	0	1	0	0	0	1	0
November	4.7	NW.	26	W.	0	4	4	7	3	6	8	7	18	3	9	10	11	10	7	0	0	0	7	0	0	0	3	0
December	5.5	NW.	24	NW.	0	4	10	3	9	4	5	10	16	1	11	13	7	5	4	0	0	0	2	0	0	2	1	0
Year	5.2	NW.	36	NW.	0	54	105	81	90	102	63	55	159	21	100	144	121	111	88	2	1	1	26	0	78	9	63	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	6.6	SE.	29	S.	0	4	2	5	33	6	4	4	4	0	7	5	19	18	11	21	16	0	1	11	0	29	0	0
February	6.4	SE.	21	SE.	0	2	3	1	32	10	0	3	5	0	6	7	15	11	7	9	9	0	2	9	0	26	0	0
March	6.6	SE.	25	S.	0	6	6	1	21	5	3	10	10	0	13	14	4	10	8	5	3	0	0	0	0	22	0	0
April	7.9	SE.	28	W.	0	7	9	2	17	4	2	3	16	0	6	14	10	11	6	6	2	0	0	0	0	16	0	0
May	6.4	NW.	25	N.	0	12	6	4	18	2	3	2	15	0	8	13	10	10	8	0	0	1	0	0	0	5	4	0
June	5.6	SE.	34	SW.	0	3	0	0	30	5	4	4	14	0	8	17	5	9	5	0	0	1	0	0	0	0	2	0
July	6.2	NW.	22	NW.	0	2	1	0	30	1	0	2	26	0	25	4	2	1	1	0	0	0	0	0	5	0	1	0
August	5.5	SE.	26	NE.	0	3	0	0	34	5	2	3	15	0	17	12	2	5	2	0	0	0	0	0	2	0	6	0
September	5.9	SE.	25	SW.	0	7	2	3	24	5	3	2	14	0	15	7	8	5	4	0	0	0	0	0	0	10	0	0
October	6.5	SE.	22	S.	0	1	0	0	35	2	3	12	9	0	16	5	10	5	2	0	0	0	0	0	0	7	0	0
November	6.9	SE.	28	S.	0	3	3	1	28	10	5	8	2	0	6	6	18	12	11	8	6	0	0	0	0	18	0	0
December	5.4	SE.	24	NW.	0	4	4	2	29	8	2	5	6	2	7	5	19	8	5	9	6	0	2	7	0	26	0	0
Year	6.3	SE.	34	SW.	0	54	36	19	331	63	31	58	136	2	134	109	122	105	70	58	42	2	5	27	7	159	13	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	5.7	SW.	26	SW.	0	12	8	1	2	9	12	6	12	0	9	7	15	9	5	3	2	0	2	5	0	17	0	0
February	6.5	SW.	25	W.	0	10	9	5	3	9	7	4	9	0	5	10	13	13	7	5	5	0	2	1	0	13	0	1
March	7.1	S.	25	SW.	0	2	9	6	8	18	8	0	11	0	12	11	8	11	8	0	0	0	3	0	0	2	2	0
April	6.5	S.	26	S.	0	3	6	3	8	14	10	3	12	1	10	9	11	13	9	3	1	0	3	0	0	1	3	0
May	6.9	NE	26	NE.	0	7	16	7	3	11	8	3	6	1	8	9	14	13	12	0	0	0	0	0	1	0	5	2
June	5.9	S.	24	SW.	0	7	13	4	3	12	10	7	4	0	12	11	7	7	6	0	0	0	0	0	10	0	6	0
July	5.6	SW.	27	SW.	0	4	11	3	2	16	17	4	4	1	10	9	12	13	9	0	0	0	0	0	10	0	14	0
August	5.4	S.	19	E.	0	9	9	1	2	19	12	3	7	0	16	8	7	9	9	0	0	0	0	0	4	0	5	0
September	5.1	S.	24	SW.	0	9	9	7	3	14	8	3	6	1	8	13	9	7	4	0	0	0	0	0	3	0	7	1
October	5.7	SW.	22	W.	0	5	9	3	1	12	15	6	9	2	20	7	4	5	5	0	0	0	1	0	0	0	0	0
November	5.6	NW.	19	SW.	0	10	11	1	7	9	9	5	8	0	6	11	13	16	12	1	0	0	3	0	0	1	0	0
December	5.5	SW.	24	S.	0	10	3	4	4	13	11	7	10	0	11	7	13	11	8	9	5	0	1	3	0	17	0	0
Year	6.0	S.	27	SW.	0	88	113	45	46	156	127	51	98	6	127	112	126	127	94	21	13	0	15	9	28	51	42	4

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	6.7	NW.	32	NW.	0	1	6	7	1	1	4	4	7	0	7	7	17	15	11	14	8	0	0	8	0	26	0	0
February	5.8	NW.	27	SW.	0	2	5	9	1	1	4	1	5	0	4	6	18	13	11	17	8	0	0	7	0	23	0	0
March	7.3	NW.	32	SW.	0	1	4	4	6	1	5	2	8	0	5	7	19	19	14	6	3	0	0	2	0	15	3	0
April	5.9	NW.	24	SE.	0	1	11	4	2	1	2	2	6	1	10	5	15	13	10	3	1	0	0	0	0	5	1	0
May	5.2	NE.	30	SW.	0	5	9	4	4	0	0	6	3	0	6	15	10	10	9	0	0	0	1	0	0	1	5	1
June	4.8	NW.	23	NW.	0	2	10	4	0	1	2	4	7	0	10	14	6	7	6	0	0	0	0	0	2	0	5	0
July	3.9	SW.	24	SW.	0	0	6	9	2	2	5	6	1	0	10	9	12	14	12	0	0	0	1	0	11	0	12	0
August	4.6	SW.	24	W.	0	0	9	3	3	1	4	7	4	0	12	11	8	11	8	0	0	0	3	0	2	0	4	0
September	4.8	NE.	24	SW.	0	0	12	5	3	2	3	5	0	0	9	9	12	10	10	0	0	0	1	0	1	0	7	0
October	5.5	W.	25	SW.	0	0	8	7	2	1	4	5	4	0	11	7	13	11	9	0	0	1	3	0	0	4	2	0
November	6.2	W.	28	S.	0	1	7	4	1	3	3	8	3	0	1	4	25	17	13	11	8	0	0	1	0	13	1	0
December	7.0	NW.	40	W.	1	3	6	4	3	1	2	7	5	0	5	6	20	10	6	18	7	0	0	11	0	26	0	0
Year	5.6	NW.	40	W.	1	16	93	64	28	15	38	57	53	1	90	100	175	150	119	69	35	1	9	29	16	113	40	1

Annual meteorological summary for the year ending December 31, 1921—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	29.452	29.880	29.070	43.9	53.6	50.0	58.3	40.3	49.3	71	28	36	38	37	76	57	62	0.231	0.238	0.229	3.72	1.50	5.6	6.1	3.8	5.8
February	29.337	29.630	28.930	43.9	54.7	52.2	59.6	40.4	50.0	76	28	38	40	39	80	58	63	.250	.266	.260	7.32	3.30	4.6	5.5	4.1	5.1
March	29.380	29.650	29.090	57.0	69.8	65.9	74.8	53.3	64.0	84	32	52	53	50	85	58	60	.420	.432	.387	4.88	1.15	5.5	5.6	4.7	5.4
April	29.339	29.700	28.900	54.9	68.8	64.8	73.9	51.3	62.6	85	34	47	47	47	75	47	54	.345	.344	.346	4.81	2.07	4.3	4.0	4.7	4.2
May	29.274	29.510	29.010	64.7	78.1	72.7	82.3	59.7	71.0	94	44	56	56	55	73	47	55	.460	.458	.451	1.24	1.09	2.5	6.3	4.6	4.5
June	29.268	29.430	29.090	75.6	88.8	82.4	93.3	70.7	82.0	98	65	66	64	65	72	44	56	.641	.593	.614	1.45	.98	2.0	6.2	5.9	4.8
July	29.294	29.520	29.060	75.6	88.1	80.3	92.3	71.4	81.8	102	68	69	69	70	81	54	71	.718	.704	.721	5.79	2.36	3.8	6.0	6.4	5.4
August	29.346	29.490	29.220	74.4	86.2	79.6	89.8	70.8	80.3	101	65	69	68	68	83	56	70	.708	.691	.695	3.97	1.34	3.7	5.1	5.5	5.3
September	29.319	29.460	29.170	74.1	88.4	79.1	92.6	70.7	81.6	98	58	68	67	68	83	51	70	.693	.670	.690	4.20	2.57	2.5	5.2	4.9	4.5
October	29.291	29.650	29.020	54.1	70.8	63.5	74.8	50.8	62.8	85	40	46	47	48	74	46	59	.322	.346	.350	1.94	.96	2.7	2.9	2.4	2.9
November	29.358	29.600	29.010	50.6	63.2	59.0	67.6	47.5	57.6	80	32	46	48	48	85	60	70	.334	.364	.359	2.14	.75	5.3	5.7	3.5	5.4
December	29.379	29.650	28.870	44.8	55.6	51.4	60.1	40.3	50.2	74	27	38	40	39	77	59	65	.244	.266	.254	3.23	1.77	4.9	5.0	4.8	5.4
Year	29.336	29.880	28.870	59.5	72.2	66.7	76.6	55.6	66.1	102	27	53	53	53	79	53	63	.447	.448	.446	44.69	3.30	4.0	5.3	4.6	4.9

BISMARCK, N. DAK.

[ϕ=46° 47′ N.; λ=100° 38′ W.]

January	28.244	28.850	27.520	12.9	24.2	21.8	30.1	7.5	18.8	54	−10	10	15	16	88	68	75	0.070	0.089	0.089	0.12	0.08	4.1	5.6	4.0	5.3
February	28.193	28.940	27.350	16.4	29.1	27.6	34.9	10.8	22.8	59	−13	13	18	18	85	64	67	.089	.107	.106	.15	.08	5.1	5.9	4.8	5.3
March	28.201	28.880	27.700	21.7	32.6	32.4	39.6	16.1	27.8	66	−6	17	19	19	81	57	60	.100	.108	.111	1.00	.40	6.2	6.9	7.0	6.5
April	28.145	28.840	27.564	32.8	51.0	51.2	56.2	30.5	43.4	82	15	27	27	28	79	44	46	.151	.151	.161	2.40	1.28	4.8	4.9	4.7	4.7
May	28.296	28.700	27.590	47.4	61.8	61.2	66.0	43.6	54.8	88	26	40	40	41	74	49	51	.257	.268	.274	2.72	.73	5.0	6.5	5.9	5.4
June	28.147	28.690	27.740	62.7	78.7	79.4	83.3	59.2	71.2	107	43	55	56	56	78	48	47	.451	.464	.457	.92	.48	5.3	4.6	4.9	5.0
July	28.210	28.470	27.700	64.3	81.5	81.9	87.0	61.3	74.2	108	49	55	53	53	74	40	40	.442	.419	.418	2.18	1.28	3.5	3.9	3.5	4.0
August	28.235	28.580	27.818	58.0	79.1	79.2	84.6	55.8	70.2	100	44	51	51	50	78	39	40	.381	.382	.381	.18	.06	3.0	4.1	4.4	4.3
September	28.140	28.560	27.650	50.7	67.0	63.2	70.8	47.6	59.2	93	34	42	41	42	74	43	50	.276	.269	.278	1.67	.63	5.3	5.6	5.1	5.5
October	28.212	28.680	27.637	39.3	57.8	53.3	62.1	35.7	48.9	85	24	32	34	32	76	45	48	.181	.197	.187	1.58	1.03	4.2	5.0	4.2	4.4
November	28.287	28.820	27.590	19.2	26.8	24.4	30.4	14.9	22.6	66	−12	17	18	18	90	72	79	.100	.110	.108	.84	.27	6.0	7.6	5.8	6.7
December	28.313	28.840	27.640	16.2	22.7	19.1	26.9	10.3	18.6	51	−24	12	15	14	83	72	82	.088	.100	.096	.29	.11	3.5	5.5	3.9	4.8
Year	28.219	28.940	27.350	36.8	51.0	49.6	56.0	32.8	44.4	108	−24	31	32	32	80	53	57	.216	.222	.222	14.05	1.28	4.7	5.5	4.8	5.2

BLOCK ISLAND, R. I.

[ϕ=41° 10′ N.; λ=71° 36′ W.]

January	30.077	30.850	29.390	32.3	34.8	34.2	40.0	26.8	33.4	55	4	26	28	28	78	75	77	0.158	0.165	0.165	2.61	1.52	5.5	5.5	5.0	6.4
February	30.015	30.540	29.275	32.1	35.6	34.3	38.1	27.8	33.0	50	12	28	29	30	82	77	82	.154	.167	.166	1.37	.49	5.9	6.1	4.3	6.5
March	30.125	30.600	29.660	40.2	44.9	42.6	48.3	36.5	42.4	60	22	37	41	39	89	85	89	.230	.262	.246	2.81	.79	4.2	4.1	3.8	6.4
April	30.017	30.510	29.620	46.9	51.8	47.1	54.2	42.8	48.5	64	32	44	48	45	92	87	92	.298	.339	.302	2.76	1.15	5.2	5.5	5.2	6.7
May	29.968	30.413	29.610	52.8	56.2	51.4	58.7	48.0	53.4	72	42	49	51	48	87	83	89	.355	.379	.339	4.85	2.34	6.3	4.7	3.9	5.5
June	29.924	30.242	29.495	62.7	66.9	61.1	69.1	56.8	63.0	80	50	58	60	58	84	79	90	.485	.522	.484	2.56	1.55	3.8	4.7	3.5	5.6
July	29.963	30.210	29.540	67.9	71.8	67.6	73.4	63.8	68.6	83	58	65	67	66	92	85	94	.628	.657	.636	3.72	1.52	4.7	4.7	5.7	7.5
August	30.047	30.282	29.580	66.5	70.5	66.2	72.4	62.0	67.2	76	56	62	63	62	84	78	86	.556	.581	.553	3.05	1.98	4.4	3.2	2.9	4.7
September	29.996	30.330	29.640	65.8	70.2	66.0	72.3	61.6	67.0	83	54	60	60	62	83	71	88	.533	.528	.564	.80	.34	3.0	3.4	3.1	4.2
October	29.947	30.427	29.340	54.9	58.7	55.2	61.6	49.8	55.7	72	37	48	47	49	78	66	82	.348	.341	.360	2.06	1.65	4.0	4.2	2.1	4.6
November	30.006	30.460	29.500	43.5	46.6	45.2	50.3	40.0	45.2	64	29	38	40	40	83	79	82	.246	.261	.259	6.50	1.30	6.5	6.3	5.8	6.9
December	29.947	30.680	29.230	33.1	36.1	34.7	40.5	27.4	34.0	60	7	26	28	28	76	70	75	.154	.164	.161	2.16	.47	6.7	5.7	4.5	6.6
Year	30.003	30.850	29.230	49.9	53.7	50.5	56.6	45.3	51.0	83	4	45	47	46	84	78	86	.345	.364	.353	35.25	2.34	5.0	4.8	4.2	6.0

BOISE, IDAHO.

[ϕ=43° 37′ N.; λ=116° 13′ W.]

January	27.213	27.660	26.600	33.1	38.2	38.1	42.1	27.4	34.8	56	14	27	29	30	78	69	71	0.149	0.159	0.164	1.57	0.48	7.1	7.5	6.4	7.1
February	27.281	27.750	26.515	31.3	39.9	40.3	43.8	26.8	35.3	63	13	27	28	30	85	63	67	.151	.157	.170	1.23	.24	5.0	7.0	7.2	6.9
March	27.149	27.590	26.700	39.1	50.2	52.7	55.0	35.4	45.2	70	26	33	33	35	78	52	52	.188	.190	.207	.84	.22	5.3	6.2	4.4	5.4
April	27.135	27.520	26.740	39.4	52.7	54.3	57.8	36.1	47.0	76	26	33	30	34	77	43	47	.189	.199	.201	.93	.30	5.6	6.4	5.9	6.0
May	27.030	27.360	26.710	47.6	63.5	66.1	69.0	45.5	57.2	81	35	40	37	39	75	40	41	.251	.232	.249	2.15	1.09	5.6	4.7	4.9	4.9
June	27.079	27.255	26.800	56.9	75.6	79.6	81.6	54.9	68.2	94	43	48	47	48	73	39	35	.337	.326	.341	.09	.05	4.0	4.1	3.9	4.0
July	27.129	27.300	26.880	59.5	83.0	89.2	90.5	57.7	74.1	103	40	41	42	41	52	24	19	.263	.270	.263	T.	T.	1.5	1.5	1.9	1.5
August	27.116	27.300	26.860	61.4	82.9	87.3	89.4	58.7	74.0	97	52	44	43	42	53	26	21	.288	.286	.271	.34	.28	2.5	1.8	1.7	2.1
September	27.153	27.450	26.790	47.2	65.7	69.3	71.4	43.7	57.6	83	34	36	37	38	69	36	35	.223	.232	.252	.61	.49	3.0	3.4	2.5	3.1
October	27.214	27.650	26.817	46.4	64.0	64.9	69.2	42.0	55.6	82	33	38	37	43	72	38	46	.231	.225	.284	.16	.12	2.1	3.6	3.3	3.2
November	27.218	27.550	26.790	39.8	50.1	49.6	54.0	35.4	44.7	67	24	30	32	33	68	53	56	.165	.178	.191	3.27	1.00	5.1	6.4	5.4	6.3
December	27.279	27.790	26.580	31.0	35.9	35.9	40.0	25.8	32.9	51	15	25	26	28	79	66	72	.136	.142	.153	.88	.35	4.5	7.0	5.7	6.3
Year	27.166	27.790	26.515	44.4	58.5	60.6	63.6	40.8	52.2	103	13	35	35	37	72	46	47	.214	.214	.229	12.07	1.00	4.3	5.0	4.5	4.7

Annual meteorological summary for the year ending December 31, 1921—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	7.2	N.	38	SE.	0	12	5	6	8	14	4	5	8	0	9	13	9	12	9	4	0	0	1	0	0	4	1	0
February	7.6	N.	26	W.	0	12	2	4	6	8	11	4	9	0	9	11	8	12	10	1	0	1	1	0	0	6	5	0
March	8.2	S.	45	SE.	1	11	1	0	15	23	10	1	1	0	8	14	9	10	9	0	0	2	0	0	0	1	7	0
April	8.0	S.	48	SW.	1	16	1	5	13	15	1	3	6	0	14	11	5	6	6	0	0	0	0	0	0	0	4	0
May	5.8	NW.	24	S.	0	13	8	9	4	7	2	5	14	0	13	13	5	4	2	0	0	1	0	0	8	0	3	1
June	5.0	S.	35	S.	0	4	8	8	4	15	7	6	6	2	7	20	3	8	5	0	0	0	0	0	27	0	12	0
July	4.8	S.	23	NE.	0	4	7	8	10	14	9	4	5	1	5	21	5	12	9	0	0	0	0	0	22	0	21	0
August	5.1	S.	25	NW.	0	9	9	12	6	12	8	5	1	0	10	12	9	12	10	0	0	0	0	0	14	0	14	0
September	4.2	S.	32	SE.	0	5	15	7	4	16	10	1	2	0	9	18	3	11	7	0	0	0	0	0	23	0	14	0
October	5.9	N.	22	SE.	0	14	10	10	7	5	9	0	7	0	21	5	5	7	6	0	0	0	0	0	0	0	3	0
November	6.5	S.	29	NW.	0	7	4	4	10	11	5	6	13	0	12	4	14	9	7	0	0	1	1	0	0	0	3	0
December	7.5	N.	30	SE.	0	13	4	6	12	5	7	9	6	0	8	12	11	9	5	0	0	0	1	0	0	8	2	0
Year	6.3	S.	48	SW.	2	120	74	79	99	145	83	49	78	3	125	154	86	112	85	5	0	5	4	0	94	19	89	1

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	8.9	NW.	39	S.	0	7	4	13	10	2	1	6	17	2	8	14	9	2	2	10	2	0	0	15	0	31	0	0
February	9.5	NW.	43	NW.	2	5	6	5	9	2	2	5	20	2	7	12	9	5	1	10	5	0	0	11	0	25	0	0
March	10.4	NW.	38	NW.	0	10	7	9	3	6	1	5	19	2	4	14	13	11	8	14	10	0	0	10	0	27	1	1
April	10.5	NW.	35	W.	0	10	10	9	2	4	1	3	18	3	11	11	8	9	8	5	3	0	1	2	0	18	1	2
May	10.9	E.	46	SW.	3	5	6	18	12	1	2	3	15	0	9	12	10	14	13	1	0	1	0	0	0	3	5	1
June	10.4	E.	39	SW.	0	7	6	13	12	3	1	6	12	0	10	13	7	9	5	0	0	0	0	0	9	0	10	0
July	8.9	E.	42	N.	1	6	8	15	10	4	3	3	13	0	11	18	2	9	6	0	0	1	0	0	12	0	15	0
August	9.0	SE.	34	NW.	0	6	4	10	15	7	2	6	12	0	13	15	3	6	2	0	0	0	1	0	8	0	8	0
September	11.5	W.	42	W.	2	5	3	11	4	4	2	14	16	1	10	12	8	10	7	0	0	1	0	0	1	0	5	2
October	8.7	NW.	49	W.	1	5	3	10	3	3	3	8	26	1	14	9	8	6	3	2	0	0	0	0	0	9	0	0
November	8.1	NW.	32	NW.	0	4	2	11	14	5	4	6	14	0	4	13	13	8	5	16	9	0	0	17	0	29	0	1
December	8.8	NW.	41	NW.	1	4	3	3	3	6	2	20	21	0	15	5	11	5	4	7	5	0	0	18	0	29	0	1
Year	9.6	NW.	49	W.	10	74	62	127	97	47	24	85	203	11	116	148	101	94	64	65	34	3	2	73	30	171	45	8

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	22.3	NW.	60	NW.	16	5	6	2	3	4	10	15	17	0	7	8	16	11	8	3	3	0	1	5	0	17	0	0
February	19.4	NW.	69	NE.	9	5	11	3	4	4	9	3	17	0	8	7	13	11	8	7	4	0	1	4	0	19	0	0
March	17.9	SW.	48	NW.	9	2	7	4	4	13	17	4	11	0	9	6	16	15	10	1	1	0	13	0	0	6	3	0
April	17.2	SW.	46	NE.	2	7	15	4	2	6	21	1	4	0	9	3	18	11	8	1	1	0	8	0	0	1	0	0
May	19.0	SW.	59	NE.	6	2	16	6	7	4	18	3	6	0	13	5	13	12	9	0	0	0	4	0	0	0	1	0
June	14.5	SW.	45	N.	1	2	5	1	4	8	29	5	6	0	9	12	9	7	7	0	0	0	6	0	0	0	8	0
July	14.0	SW.	52	NW.	2	1	13	5	4	6	26	5	2	0	5	6	20	10	7	0	0	0	12	0	0	0	7	0
August	13.8	SW.	35	W.	0	3	8	8	3	6	17	12	5	0	14	6	11	7	6	0	0	0	5	0	0	0	2	0
September	13.2	SW.	42	SW	1	6	6	4	8	9	16	5	6	0	16	6	8	11	6	0	0	0	6	0	0	0	2	0
October	17.7	SW.	60	NW.	8	4	7	2	2	6	17	14	10	0	14	6	11	5	3	0	0	0	0	0	0	0	1	0
November	22.5	NE.	71	NE.	12	7	13	3	3	3	8	10	13	0	6	6	18	17	16	1	1	0	3	0	0	1	0	1
December	22.0	NW.	72	NW.	10	6	4	0	1	5	8	14	24	0	7	8	16	10	8	5	5	0	0	4	0	21	0	0
Year	17.8	SW.	72	NW.	76	50	111	42	45	74	196	91	121	0	117	79	169	127	96	18	15	0	59	13	0	65	24	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	6.6	SE.	22	SE.	0	3	2	3	32	6	2	7	6	1	6	8	17	17	10	13	8	0	0	3	0	21	0	0
February	5.6	NW.	24	NW.	0	4	3	1	12	6	3	12	14	1	7	5	16	12	10	12	8	0	3	2	0	24	1	0
March	6.1	NW.	30	NW.	0	7	5	3	16	4	2	5	19	1	10	11	10	12	6	4	0	3	0	0	0	9	2	0
April	7.3	NW.	33	NW.	0	7	1	7	12	6	2	4	19	2	8	7	15	12	7	5	2	2	0	0	0	9	0	0
May	5.8	W.	26	W.	0	5	4	3	10	6	2	16	13	3	13	8	10	7	7	0	0	1	1	0	0	0	5	1
June	5.0	W.	29	W.	0	1	2	3	13	5	3	14	17	2	13	13	4	3	2	0	0	0	0	0	6	0	3	0
July	5.3	W.	25	SE.	0	0	2	4	12	6	3	11	23	1	25	6	0	0	0	0	0	0	0	0	20	0	3	0
August	4.6	SE.	32	NE.	0	7	0	6	14	4	1	9	18	3	22	8	1	2	2	0	0	0	0	0	15	0	4	0
September	4.7	SE.	27	W.	0	3	1	5	17	2	1	10	19	2	19	7	4	3	3	0	0	0	0	0	0	0	2	0
October	3.8	SE.	26	NW.	0	5	0	10	12	2	0	15	13	5	17	10	4	3	1	0	0	0	1	0	0	0	0	0
November	4.7	SE.	22	NW.	0	4	1	9	16	4	1	10	9	6	9	7	14	10	7	6	2	0	1	0	0	8	0	0
December	4.2	NW.	34	SW.	0	15	0	5	10	5	2	2	22	1	7	8	16	9	5	10	5	1	3	3	0	27	1	0
Year	5.3	SE.	34	SW.	0	61	21	59	176	56	22	115	192	28	156	98	111	90	60	50	25	7	9	8	41	98	21	1

Annual meteorological summary for the year ending December 31, 1921—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	29.949	30.740	29.250	29.1	34.5	32.9	40.0	24.2	32.1	56	0	20	24	23	67	64	66	0.126	0.143	0.142	2.24	1.06	5.6	5.6	3.8	5.5
February	29.915	30.390	29.210	30.0	36.2	33.8	39.6	25.5	32.6	59	8	23	27	27	74	67	76	.132	.150	.151	2.64	1.33	6.5	6.6	4.8	6.2
March	29.999	30.530	29.510	42.7	50.0	46.2	55.8	36.7	46.2	83	20	35	38	39	75	66	77	.224	.255	.254	1.92	.52	5.3	5.7	5.5	5.5
April	29.922	30.450	29.490	49.0	52.4	50.6	59.5	44.0	51.8	77	32	41	42	43	75	70	76	.264	.275	.281	4.62	3.19	6.7	6.4	6.2	6.5
May	29.879	30.310	29.480	56.1	61.6	58.6	66.1	50.0	58.0	93	41	46	48	48	72	63	70	.327	.339	.346	3.64	.91	5.7	5.0	5.8	5.3
June	29.800	30.160	29.340	67.9	72.6	68.7	77.1	59.3	68.2	93	49	54	56	57	62	59	68	.429	.472	.473	3.58	3.20	3.6	4.6	6.0	4.9
July	29.844	30.090	29.480	71.7	77.3	72.2	80.3	66.2	73.2	95	58	66	68	67	82	74	84	.636	.686	.665	11.69	6.04	5.5	7.0	6.5	6.6
August	29.931	30.210	29.440	68.2	73.5	70.1	78.0	61.6	69.8	92	55	58	60	61	72	64	74	.502	.528	.545	1.63	1.12	3.3	4.3	3.0	4.0
September	29.885	30.270	29.500	65.7	72.6	68.2	76.9	60.1	68.5	93	53	55	56	59	70	58	73	.455	.470	.508	1.22	.53	3.9	3.8	3.2	4.2
October	29.825	30.320	29.150	51.8	60.6	55.5	63.8	46.6	55.2	79	31	42	44	43	70	56	65	.279	.299	.289	1.24	.53	4.5	4.4	3.2	4.7
November	29.917	30.360	29.310	38.9	43.1	41.8	47.7	35.4	41.6	72	25	34	36	36	81	76	80	.200	.219	.218	6.19	1.67	6.8	7.1	7.2	7.3
December	29.827	30.610	29.150	29.2	34.2	32.6	38.8	24.1	31.4	59	2	19	22	22	64	61	64	.117	.128	.128	2.35	.56	6.0	5.9	4.5	6.1
Year	29.891	30.740	29.150	50.0	55.7	52.6	60.3	44.5	52.4	95	0	41	43	44	72	65	73	.308	.330	.333	42.96	6.04	5.3	5.5	5.0	5.6

BROKEN ARROW, OKLA.

[ϕ=36° 02′ N.; λ=95° 49′ W.]

January	29.299	29.700	28.840	37.4	46.7	....	51.2	34.2	42.7	67	24	34	36	....	87	66	....	0.210	0.229	.....	1.29	0.66	4.8	7.2	....	7.0
February	29.241	29.700	28.740	35.8	49.5	....	54.7	33.7	44.2	75	20	31	36	....	82	62	....	.175	.219	.....	1.56	.95	3.7	3.9	....	3.9
March	29.182	29.820	28.740	49.5	59.9	....	66.1	45.7	55.9	83	26	45	48	....	85	68	....	.326	.368	.....	6.21	3.08	6.7	6.3	....	6.4
April	29.134	29.820	28.660	51.1	63.0	....	68.0	48.1	58.0	82	29	46	47	....	83	57	....	.327	.340	.....	8.87	3.76	4.8	4.9	....	4.8
May	29.178	29.460	28.820	62.0	75.4	....	79.0	58.3	68.6	90	40	57	57	....	83	54	....	.475	.482	.....	1.47	.70	5.5	5.9	....	5.4
June	29.100	29.320	28.811	71.5	78.6	....	83.4	68.0	75.7	91	63	69	69	....	91	73	....	.701	.700	.....	10.86	4.53	6.4	7.5	....	7.0
July	29.172	29.317	28.880	74.3	86.8	....	89.4	71.2	80.3	98	64	70	70	....	87	58	....	.738	.736	.....	.63	.51	4.4	5.3	....	4.8
August	29.181	29.350	28.940	72.7	86.5	....	90.4	70.2	80.3	102	62	69	71	....	89	61	....	.716	.751	.....	4.81	1.71	4.2	4.6	....	4.4
September	29.149	29.316	28.910	69.5	84.9	....	88.5	67.2	77.8	97	44	67	66	....	91	56	....	.664	.657	.....	2.60	1.15	5.6	5.3	....	5.1
October	29.159	29.530	28.702	50.5	70.9	....	76.2	48.2	62.2	91	34	42	43	....	73	39	....	.273	.291	.....	.40	.27	2.5	3.2	....	2.4
November	29.223	29.540	28.867	41.6	57.3	....	63.3	37.3	50.3	80	25	36	39	....	80	54	....	.217	.249	.....	1.28	.70	3.9	4.0	....	4.3
December	29.279	29.690	28.672	35.1	45.5	....	51.3	30.3	40.8	76	14	30	32	....	82	63	....	.177	.196	.....	1.04	.92	5.7	6.9	....	6.8
Year	29.191	29.820	28.660	54.2	67.1	....	71.8	51.0	61.4	102	14	50	51	....	84	59	....	.417	.435	.....	41.02	4.53	4.8	5.4	....	5.2

BUFFALO, N. Y.

[ϕ=42° 53′ N.; λ=78° 53′ W.]

January	29.267	30.080	28.640	27.5	29.6	29.4	35.0	23.2	29.1	53	0	22	22	23	77	73	77	0.124	0.126	0.133	0.89	0.28	7.2	7.2	5.8	7.5
February	29.191	29.700	28.650	27.8	30.5	30.0	35.1	23.6	29.4	56	12	23	25	24	83	78	77	.129	.134	.131	2.50	.90	7.9	7.3	6.8	7.8
March	29.231	29.830	28.680	39.1	42.1	41.5	51.3	31.8	41.6	70	12	32	34	34	78	75	76	.196	.209	.214	3.40	.55	7.4	7.7	7.3	7.4
April	29.185	29.507	28.630	48.6	53.2	50.5	59.2	43.4	51.3	84	24	40	41	41	75	67	72	.264	.273	.274	3.62	1.48	5.9	7.2	4.9	6.5
May	29.191	29.490	28.930	54.4	59.1	58.0	64.1	49.5	56.8	83	38	46	47	47	76	66	69	.328	.336	.336	2.11	.89	5.7	4.9	4.6	5.7
June	29.173	29.550	28.880	64.3	68.8	68.7	74.3	58.9	66.6	86	46	54	54	54	71	62	61	.444	.437	.440	1.52	.50	5.2	4.8	5.3	5.3
July	29.173	29.373	28.890	74.1	78.5	77.1	82.2	70.3	76.2	88	57	66	66	64	75	66	65	.634	.646	.607	1.42	.61	4.4	3.8	4.8	4.1
August	29.240	29.480	28.800	65.8	71.5	69.8	74.8	61.8	68.3	83	53	56	55	56	70	59	64	.450	.452	.467	1.80	.52	4.8	5.7	4.4	5.5
September	29.169	29.490	28.600	65.0	70.4	68.4	73.9	61.2	67.6	85	52	58	57	55	77	64	66	.488	.496	.466	1.96	.58	5.3	4.7	4.0	4.8
October	29.121	29.610	28.680	49.2	55.5	53.3	59.0	45.4	52.2	71	32	41	42	43	74	63	69	.262	.280	.283	2.86	.70	6.8	6.0	5.6	6.7
November	29.201	29.680	28.730	37.1	38.6	38.0	42.8	32.5	37.6	68	22	33	34	33	83	82	83	.193	.197	.196	3.77	.95	9.1	9.4	8.3	9.7
December	29.137	29.690	28.470	29.0	30.6	29.9	36.4	23.4	29.9	57	6	24	24	24	82	76	77	.132	.137	.135	0.98	.24	9.7	8.7	7.8	9.0
Year	29.190	30.080	28.470	48.5	52.4	51.2	57.3	43.8	50.6	88	0	41	42	42	77	69	71	.304	.309	.307	26.71	1.48	6.6	6.4	5.8	6.7

BURLINGTON, VT.

[ϕ=44° 29′ N.; λ=73°12′ W.]

January	29.651	30.500	28.900	19.8	23.5	....	29.5	13.3	21.4	44	−10	14	16	....	76	71	....	0.094	0.099	.....	0.65	0.22	7.0	7.0	....	6.8
February	29.622	30.070	29.050	19.2	24.4	....	30.4	13.3	21.8	51	−5	14	17	....	80	72	....	.088	.098	.....	2.09	.59	8.2	7.4	....	7.4
March	29.649	30.200	29.180	35.3	39.6	....	46.0	27.6	36.8	71	6	29	29	....	77	65	....	.184	.176	.....	2.64	.64	7.6	7.5	....	7.1
April	29.620	29.977	29.200	44.0	52.0	....	57.7	36.8	47.2	77	21	37	38	....	77	61	....	.235	.244	.....	2.98	1.08	5.5	6.0	....	6.0
May	29.582	29.946	29.240	56.2	64.3	....	68.9	46.1	57.5	88	34	44	44	....	63	49	....	.296	.302	.....	1.00	.33	4.9	5.3	....	5.3
June	29.516	29.860	29.060	63.4	70.5	....	75.3	53.0	64.2	92	37	51	51	....	65	52	....	.392	.390	.....	1.96	.64	4.9	5.2	....	5.4
July	29.532	29.760	29.170	72.7	81.5	....	85.1	65.7	75.4	98	52	64	66	....	75	70	....	.608	.638	.....	2.05	1.12	4.5	4.6	....	5.4
August	29.606	29.890	29.130	64.1	72.4	....	75.9	56.2	66.0	86	45	54	54	....	72	54	....	.434	.430	.....	2.98	1.14	4.7	5.0	....	5.3
September	29.557	29.940	28.980	60.9	69.9	....	73.8	51.6	62.7	90	38	52	52	....	72	54	....	.391	.401	.....	2.54	1.24	4.5	5.0	....	5.0
October	29.505	30.040	28.840	44.8	53.0	....	57.0	39.4	48.2	72	23	38	39	....	76	61	....	.232	.244	.....	3.78	1.20	6.0	6.2	....	6.4
November	29.602	30.070	28.890	31.6	34.4	....	38.3	27.1	32.7	70	15	28	29	....	85	79	....	.160	.167	.....	3.69	.88	9.0	8.7	....	8.8
December	29.514	30.263	28.840	20.0	23.0	....	28.3	12.3	20.3	57	−12	14	16	....	79	72	....	.092	.092	.....	.81	.32	7.8	8.0	....	7.9
Year	29.580	30.500	28.840	44.3	50.7	....	55.5	36.9	46.2	98	−12	37	38	....	75	63	....	.267	.274	.....	27.17	1.24	6.2	6.3	....	6.4

Annual meteorological summary for the year ending December 31, 1921—Continued.

BOSTON, MASS.

[H_b=125 ft.; h_1=115 ft.; h_r=154 ft.; h_a=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	11.5	W.	39	NW.	0	4	3	2	0	6	8	21	18	0	10	9	12	12	8	10	6	0	0	5	0	21	0	0
February	10.3	W.	36	E.	0	7	4	3	1	10	7	13	11	0	6	14	8	9	5	11	5	0	0	3	0	21	0	0
March	11.3	SW.	37	SW.	0	5	7	3	2	11	15	11	8	0	10	11	10	15	11	1	0	0	2	0	0	7	4	0
April	9.7	E.	28	N.	0	8	13	12	3	3	7	7	7	0	8	9	13	14	9	2	2	0	4	0	0	1	1	0
May	10.0	E.	32	E.	0	3	13	13	7	6	7	10	3	0	10	15	6	8	6	0	0	0	2	0	2	0	1	1
June	9.8	SW.	30	N.	0	9	3	8	0	4	15	10	11	0	12	12	6	6	4	0	0	0	3	0	2	0	5	0
July	8.0	SW.	29	W.	0	7	5	11	4	3	20	8	4	0	5	12	14	10	8	0	0	0	3	0	6	0	7	0
August	9.1	SW.	30	NW.	0	5	4	6	3	6	17	12	9	0	18	10	3	5	3	0	0	0	0	0	1	0	2	0
September	8.9	SW.	31	W.	0	6	3	2	6	4	15	18	6	0	15	9	6	11	9	0	0	0	1	0	2	0	4	1
October	10.1	W.	39	W.	0	5	2	1	2	6	21	15	10	0	12	12	7	6	5	0	0	0	0	0	0	1	0	0
November	10.6	W.	43	W.	1	15	3	4	4	2	8	14	10	0	7	5	18	18	16	7	4	0	4	0	0	9	0	0
December	11.8	W.	39	S.	0	4	1	0	2	3	11	18	23	0	9	9	13	11	9	10	7	0	0	7	0	23	1	0
Year	10.1	W.	43	W.	1	78	61	65	34	64	151	157	120	0	122	127	116	125	93	41	24	0	19	15	13	83	25	2

BROKEN ARROW, OKLA.

[H_b=765 ft.; h_1=11 ft.; h_r=4 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	13.7	S.	40	S.	2	4	2	3	3	9	4	2	4	0	5	7	19	5	5	3	1	0	4	1	0	17	1	0
February	13.2	S.	48	S.	4	6	1	0	2	5	4	6	4	0	15	6	7	3	3	2	2	1	0	0	0	13	1	0
March	16.1	S.	65	SE.	9	8	1	1	6	10	3	2	0	0	8	9	14	12	8	0	0	2	1	0	0	2	11	0
April	15.9	S.	54	SW.	5	4	3	0	5	12	3	2	1	0	12	8	10	6	6	0	0	1	0	0	0	2	7	0
May	11.8	S.	38	N.	0	3	4	2	10	9	1	1	1	0	7	16	8	5	4	0	0	0	0	0	0	0	9	0
June	10.7	S.	45	N.	2	1	2	2	7	13	3	2	0	0	3	11	16	16	16	0	0	0	0	0	0	0	14	0
July	9.8	S.	30	S.	0	4	4	2	7	10	2	1	1	0	11	16	4	3	3	0	0	0	0	0	14	0	5	0
August	10.6	S.	72	NW.	1	3	3	1	10	13	1	0	0	0	14	10	7	8	6	0	0	0	0	0	18	0	12	0
September	11.8	S.	48	N.	1	2	2	0	5	17	1	0	1	2	9	13	8	7	7	0	0	0	1	0	14	0	8	0
October	13.8	S.	44	S.	3	7	0	0	7	11	3	1	2	0	22	6	3	3	3	0	0	0	0	0	1	0	1	0
November	12.6	N.	39	N.	0	7	2	0	6	6	3	0	6	0	15	7	8	3	3	0	0	0	1	0	0	9	2	0
December	13.3	N.	40	N.	1	9	4	1	6	3	3	2	3	0	6	6	19	6	5	2	0	0	1	2	0	18	1	0
Year	12.8	S.	72	NW.	28	58	28	12	74	118	31	19	23	2	127	115	123	77	69	7	3	4	8	3	48	61	72	0

BUFFALO, N. Y.

[H_b=767 ft.; h_1=247 ft.; h_r=238 ft.; h_a=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	20.1	W.	74	W.	11	3	6	4	3	8	15	18	5	0	4	10	17	14	5	16	7	0	5	13	0	26	0	0
February	17.2	W.	64	SW.	5	3	7	10	2	8	8	15	3	0	3	8	17	15	10	19	12	0	3	11	0	26	0	0
March	18.6	SW.	64	SW.	14	5	7	5	1	22	9	7	6	0	5	5	21	20	14	8	6	0	5	2	0	20	5	0
April	14.2	SW.	56	W.	6	3	6	5	5	11	19	8	3	0	9	7	14	14	13	3	2	0	3	1	0	6	2	0
May	13.3	SW.	42	SW.	2	2	7	10	5	8	16	10	4	0	10	9	12	8	7	0	0	1	3	0	0	0	5	4
June	12.3	SW.	46	SW.	2	4	11	10	2	4	16	10	3	0	11	9	10	6	6	0	0	0	0	0	0	0	6	0
July	11.9	SW.	44	SW.	2	4	6	7	3	13	16	8	5	0	16	10	5	5	5	0	0	1	0	0	0	0	16	0
August	13.8	S.	47	SW.	5	4	6	4	4	15	12	12	5	0	9	11	11	8	7	0	0	0	0	0	0	0	3	0
September	15.6	SW.	78	W.	8	1	5	8	4	14	13	8	7	0	13	5	12	8	7	0	0	1	0	0	0	0	5	0
October	18.5	W.	70	SW.	10	3	2	8	4	13	12	7	13	0	8	5	18	13	10	0	0	1	0	0	0	1	2	0
November	17.7	W.	58	SW.	10	2	11	9	4	9	4	18	3	0	0	1	29	20	18	15	11	0	3	3	0	18	0	0
December	20.4	W.	96	SW.	11	6	4	6	4	9	8	18	7	0	1	5	25	15	6	24	10	0	0	12	0	26	0	0
Year	16.1	W.	96	SW.	86	40	78	86	41	134	148	139	64	0	89	85	191	146	108	85	48	4	22	42	0	123	44	4

BURLINGTON, VT.

[H_b=404 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	14.6	S.	62	S.	6	5	2	2	1	12	2	1	6	0	7	8	16	11	7	16	9	0	0	13	0	29	0	0
February	11.9	S.	46	S.	3	5	5	4	0	10	3	0	1	0	5	4	19	15	8	17	14	0	0	18	0	28	0	0
March	16.8	S.	62	S.	7	7	0	1	1	15	4	1	2	0	6	7	18	18	14	8	6	0	1	4	0	19	2	0
April	11.2	N.	48	S.	4	10	1	2	2	8	5	1	1	0	8	9	13	8	7	3	1	0	1	1	0	9	1	0
May	9.4	N.	36	SE.	0	9	2	6	0	6	4	1	3	0	8	14	9	9	7	0	0	1	0	0	0	0	3	5
June	8.8	S.	34	S.	0	8	0	0	1	9	9	0	3	0	8	13	9	9	9	0	0	0	1	0	1	0	8	1
July	8.5	S.	32	S.	0	6	0	0	2	10	10	0	3	0	8	11	12	10	7	0	0	0	0	0	7	0	10	0
August	10.1	S.	39	S.	0	4	2	1	2	16	4	0	2	0	10	10	11	9	7	0	0	0	0	0	0	0	7	0
September	10.9	S.	48	S.	2	4	0	4	1	15	2	1	3	0	11	9	10	9	8	0	0	0	0	0	1	0	6	5
October	11.4	S.	40	S.	1	2	0	4	1	12	4	1	7	0	8	7	16	10	9	1	0	0	0	0	0	6	1	2
November	10.9	S.	48	NW.	2	5	2	3	6	7	2	0	5	0	1	4	25	22	16	19	13	0	0	8	0	25	0	1
December	14.4	S.	48	S.	5	6	5	1	4	9	2	1	3	0	4	4	23	15	3	23	12	0	0	19	0	29	0	3
Year	11.6	S.	62	S.	20	71	19	28	21	129	51	7	39	0	84	100	181	145	102	87	55	1	4	63	9	145	38	17

Annual meteorological summary for the year ending December 31, 1921—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	29.804	30.330	29.250	37.4	43.5	43.6	48.7	34.4	41.6	67	21	32	33	32	79	67	65	0.188	0.202	0.196	2.27	0.68	7.5	7.4	6.6	7.7
February	29.688	30.168	29.150	37.9	44.7	45.2	49.9	35.5	42.7	73	22	33	34	34	82	68	66	.198	.213	.204	3.72	1.26	7.6	7.0	5.5	6.9
March	29.683	30.150	29.320	51.1	60.2	60.5	66.3	48.1	57.2	82	27	44	45	46	79	60	60	.314	.331	.330	4.26	1.08	6.8	6.2	5.7	6.2
April	29.645	30.141	29.090	53.5	64.0	62.1	68.3	49.7	59.0	83	34	46	45	44	76	51	54	.327	.320	.310	3.67	1.23	5.5	6.0	5.6	5.7
May	29.633	29.907	29.140	62.4	74.1	72.5	77.6	59.6	68.6	91	41	55	51	54	77	47	54	.452	.397	.437	1.68	.80	5.7	5.8	5.5	5.8
June	29.581	29.810	29.410	73.4	83.4	80.9	87.9	70.4	79.2	94	60	67	66	67	82	57	65	.677	.652	.674	1.83	.45	4.7	6.5	6.3	5.9
July	29.612	29.840	29.410	76.7	88.5	85.8	92.3	73.8	83.0	97	67	69	67	69	77	50	58	.705	.671	.705	.98	.45	3.9	4.1	4.9	4.3
August	29.656	29.830	29.460	71.9	81.7	79.9	85.6	69.6	77.6	96	64	67	66	68	84	61	69	.664	.654	.699	4.29	1.81	5.7	5.8	5.1	5.6
September	29.624	29.800	29.360	70.4	80.5	77.2	85.0	67.7	76.4	94	52	68	68	68	90	67	75	.682	.692	.707	4.80	1.78	6.4	6.9	5.0	6.6
October	29.632	30.100	29.360	51.2	65.1	61.6	69.6	48.9	59.2	82	38	45	44	45	81	48	57	.310	.296	.312	.82	.43	3.5	3.6	2.5	3.6
November	29.677	30.070	29.250	45.8	54.6	53.1	60.1	42.4	51.2	74	31	41	40	40	85	61	64	.278	.269	.270	11.18	4.46	6.9	6.9	5.6	6.5
December	29.716	30.160	29.070	38.4	44.2	43.9	50.3	34.3	42.3	65	23	33	32	33	81	65	66	.193	.187	.196	3.02	2.35	7.1	7.0	5.8	6.7
Year	29.663	30.330	29.070	55.8	65.4	63.9	70.1	52.9	61.5	97	21	50	49	50	81	58	63	.416	.407	.420	42.52	4.46	6.0	6.1	5.3	6.0

CANTON, N. Y.

[ϕ=44° 36′ N.; λ=75° 10′ W.]

January	29.605	30.450	28.890	17.8	23.4	....	29.6	12.2	20.9	47	−15	14	16	....	85	72	....	0.095	0.101	.....	1.22	0.30	6.3	4.6	....	5.1
February	29.550	29.975	28.960	18.2	25.4	....	30.0	11.8	20.9	55	−7	15	18	....	86	73	....	.089	.104	.....	1.39	.30	8.1	6.7	....	6.5
March	29.572	30.140	29.048	35.9	41.2	....	46.9	27.7	37.3	78	2	30	31	....	78	68	....	.185	.190	.....	3.32	.72	6.9	6.3	....	6.2
April	29.542	29.840	29.150	45.0	53.7	....	58.9	38.1	48.5	81	21	38	40	....	76	62	....	.242	.267	.....	1.53	.51	5.3	5.1	....	4.5
May	29.528	29.885	29.240	56.0	65.4	....	69.1	46.2	57.6	86	34	45	44	....	68	48	....	.315	.317	.....	1.08	.40	4.1	3.5	....	3.3
June	29.475	29.826	29.010	63.9	73.0	....	77.4	54.0	65.7	90	38	54	52	....	69	50	....	.427	.417	.....	1.66	1.15	3.5	3.7	....	3.2
July	29.469	29.702	29.180	73.9	84.3	....	87.7	65.1	76.4	99	48	64	62	....	73	49	....	.611	.582	.....	2.20	1.69	3.4	3.1	....	3.8
August	29.549	29.830	29.070	65.5	73.4	....	77.3	56.2	66.8	86	45	55	53	....	69	51	....	.440	.413	.....	3.91	1.99	3.6	4.6	....	5.0
September	29.481	29.850	28.890	61.3	70.5	....	74.6	51.7	63.2	88	39	54	54	....	76	58	....	.426	.431	.....	3.52	1.13	3.6	4.5	....	4.4
October	29.440	29.974	28.860	44.0	53.3	....	56.7	38.8	47.8	73	23	39	41	....	82	66	....	.242	.265	.....	4.90	1.54	5.8	5.6	....	5.3
November	29.545	30.000	28.840	30.1	33.2	....	37.2	24.3	30.8	73	12	27	27	....	88	78	....	.155	.158	.....	2.67	.52	8.4	8.4	....	8.3
December	29.457	30.153	28.710	18.9	24.0	....	30.7	12.9	21.8	57	−15	15	16	....	84	70	....	.095	.095	.....	1.60	.47	6.5	6.9	....	6.6
Year	29.518	30.450	28.710	44.2	51.7	....	56.3	36.6	46.5	99	−15	38	38	....	78	62	....	.277	.278	.....	29.00	1.99	5.5	5.2	....	5.2

CAPE HENRY, VA.

[ϕ=36° 56′ N.; λ=76° 00′ W.]

January	30.149	30.880	29.570	41.0	45.8	43.6	51.0	36.4	43.7	73	21	....	37	36	....	71	75	.....	0.230	0.217	1.30	0.66	....	5.8	5.1	5.9
February	30.050	30.530	29.470	40.7	45.7	43.7	51.0	37.5	44.2	73	30	....	38	37	....	76	78	.....	.234	.226	3.25	1.26	....	5.4	4.7	6.0
March	30.140	30.500	29.800	54.1	61.2	57.1	65.8	48.7	57.2	88	34	....	49	49	....	68	78	.....	.371	.371	2.50	1.16	....	4.5	3.2	4.6
April	30.050	30.400	29.620	57.8	63.8	58.5	68.2	51.6	59.9	90	38	....	52	51	....	68	77	.....	.409	.389	3.39	1.46	....	5.9	4.6	5.6
May	29.961	30.350	29.520	61.0	64.4	60.9	68.1	55.1	61.6	92	46	....	56	55	....	76	83	.....	.465	.450	3.47	.85	....	6.8	6.3	7.0
June	29.964	30.250	29.710	72.7	77.5	72.0	80.8	65.0	72.9	94	53	....	66	65	....	68	79	.....	.654	.625	3.59	1.84	....	4.6	5.9	5.1
July	29.989	30.250	29.740	77.5	83.3	77.0	85.6	71.4	78.5	92	66	....	73	72	....	73	85	.....	.823	.783	8.28	4.41	....	4.6	5.0	5.0
August	30.059	30.220	29.780	74.7	79.7	73.4	81.6	68.8	75.2	98	58	....	67	67	....	67	81	.....	.672	.676	3.69	1.77	....	4.4	4.8	4.7
September	30.013	30.250	29.760	74.6	80.7	74.0	83.0	69.3	76.2	95	60	....	67	69	....	65	84	.....	.673	.704	2.74	1.84	....	4.0	2.4	4.5
October	29.998	30.530	29.540	60.6	66.5	61.6	69.3	55.2	62.2	84	43	....	52	52	....	63	72	.....	.407	.406	1.59	1.02	....	3.8	3.6	4.0
November	30.049	30.367	29.470	54.0	60.1	54.8	63.0	49.7	56.4	81	37	....	49	48	....	70	80	.....	.366	.350	1.67	.57	....	5.0	4.3	5.3
December	30.052	30.670	29.420	41.5	46.9	43.5	51.0	37.4	44.2	70	22	....	39	37	....	75	77	.....	.248	.229	4.16	1.63	....	6.3	3.8	6.3
Year	30.040	30.880	29.420	59.2	64.6	60.0	68.2	53.3	61.0	98	21	....	54	53	....	70	79	.....	.462	.452	39.63	4.41	....	5.1	4.5	5.3

CAPE MAY, N. J.

[ϕ=38° 56′ N.; λ=74° 51′ W.]

January	30.186	30.932	29.593	33.3	....	37.0	42.9	29.8	36.4	57	7	27	....	30	76	....	76	0.161	.....	0.178	1.79	1.07	5.5	....	4.4	5.1
February	30.090	30.576	29.510	34.8	....	38.6	44.2	32.5	38.4	60	20	30	....	34	82	....	82	.173	.....	.196	2.82	1.60	5.3	....	3.9	5.5
March	30.178	30.565	29.857	45.9	....	48.2	55.2	41.4	48.3	75	27	40	....	43	82	....	82	.265	.....	.284	2.27	1.07	5.7	....	3.5	4.1
April	30.067	30.434	29.641	51.8	....	52.7	59.9	47.6	53.8	73	29	47	....	48	84	....	85	.333	.....	.344	2.97	.62	5.6	....	5.3	6.2
May	30.004	30.424	29.607	58.3	....	57.6	65.6	52.1	58.8	85	44	52	....	52	80	....	85	.394	.....	.397	3.35	.93	5.3	....	5.5	5.6
June	29.996	30.280	29.676	68.7	....	67.9	76.8	61.6	69.2	92	51	60	....	60	75	....	78	.525	.....	.536	2.50	1.22	3.7	....	5.2	4.6
July	30.001	30.266	29.768	75.0	....	73.1	82.2	70.2	76.2	95	62	70	....	70	85	....	90	.741	.....	.733	3.08	2.04	4.8	....	4.7	5.2
August	30.096	30.274	29.761	70.9	....	69.6	79.0	64.7	71.8	94	56	63	....	65	78	....	85	.594	.....	.618	2.98	1.14	3.8	....	3.3	4.0
September	30.048	30.282	29.875	70.6	....	71.6	79.3	66.5	72.9	93	55	65	....	65	84	....	80	.632	.....	.620	.80	.46	5.5	....	3.2	4.8
October	30.033	30.548	29.562	57.0	....	58.6	65.6	51.6	58.3	74	39	49	....	50	75	....	74	.357	.....	.375	1.62	1.23	3.6	....	2.7	4.5
November	30.069	30.404	29.586	47.3	....	49.7	55.2	43.3	49.2	65	34	42	....	43	84	....	80	.282	.....	.298	3.22	.86	5.8	....	6.0	6.3
December	30.067	30.726	29.427	34.9	....	37.8	42.9	30.6	36.8	59	12	29	....	31	80	....	77	.173	.....	.181	2.50	.78	6.1	....	4.8	5.8
Year	30.070	30.932	29.427	54.0	....	55.2	62.4	49.2	55.8	95	7	48	....	49	80	....	81	.336	.....	.337	29.91	2.04	5.1	....	4.4	5.1

Annual meteorological summary for the year ending December 31, 1921—Continued.

CAIRO, ILL.

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

Month.	Wind.														Number of days.														
	By self-register.					Number of winds, 8 a. m. and 8 p. m.												Precipitation.		Snow.				Maximum temp.				
	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.	Electricity. Thunderstorms.	Electricity. Auroras.
	Miles.		*Mi.*																									
January	10.3	S.	33	W.	0	11	7	5	2	20	8	4	5	0	4	7	20	11	9	4	2	0	1	2	0	11	2	0
February	10.6	S.	45	NE.	1	8	11	2	3	16	6	3	7	0	6	7	15	8	6	4	2	0	1	1	0	11	4	0
March	12.8	S.	42	NE.	2	12	4	6	4	26	7	3	0	0	6	13	12	14	13	0	0	1	0	0	0	2	5	0
April	9.5	S.	42	E.	1	11	3	2	8	25	8	0	3	0	9	8	13	12	9	1	0	1	0	0	0	0	6	0
May	7.6	NE.	31	W.	0	12	13	8	7	3	12	4	3	0	8	10	13	6	5	0	0	0	0	0	4	0	2	0
June	7.3	SW.	32	SW.	0	1	13	2	7	12	19	6	0	0	5	16	9	11	8	0	0	0	0	0	14	0	16	0
July	6.4	S.	60	NW.	1	4	16	1	3	16	14	6	2	0	15	10	6	8	6	0	0	0	0	0	24	0	13	0
August	6.4	S.	38	NE.	0	6	9	6	13	16	4	1	4	3	8	12	11	8	7	0	0	0	0	0	5	0	10	0
September	6.9	S.	40	NW.	1	10	5	2	9	22	3	2	7	0	5	11	14	13	7	0	0	0	2	0	6	0	9	0
October	7.6	SE.	37	SW.	0	10	3	4	18	12	2	2	11	0	17	8	6	5	4	0	0	0	2	0	0	0	2	0
November	9.6	S.	44	SW.	1	11	5	1	12	18	1	0	10	2	5	10	15	14	8	2	0	0	1	0	0	2	6	0
December	10.3	S.	42	W.	1	9	6	3	6	13	9	5	11	0	8	5	18	7	6	2	0	0	1	1	0	14	2	0
Year	8.8	S.	60	NW.	8	105	95	42	92	199	93	36	63	5	96	117	152	117	88	13	4	2	8	4	53	40	77	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	11.8	SW.	55	SW.	3	1	2	2	0	2	9	8	7	0	12	7	12	11	7	19	9	0	0	15	0	29	0	0
February	10.5	SW.	48	W.	2	3	2	8	1	2	9	1	2	0	6	9	13	12	10	15	11	0	0	18	0	28	1	0
March	13.4	SW.	60	SW.	3	6	1	3	2	3	11	4	1	0	10	5	16	19	16	7	6	0	0	4	0	21	2	3
April	11.5	SW.	44	W.	2	2	4	7	0	4	10	3	0	0	14	9	7	11	7	4	3	0	0	1	0	8	1	4
May	9.8	NE.	39	W.	0	2	3	5	1	4	6	8	2	0	16	13	2	8	6	0	0	0	1	0	0	0	2	4
June	8.5	W.	38	W.	0	3	3	2	0	2	10	9	1	0	20	7	3	7	3	0	0	0	0	0	1	0	4	3
July	8.0	SW.	42	SW.	1	3	1	6	1	2	15	3	0	0	15	12	4	10	10	0	0	0	2	0	11	0	11	0
August	8.6	SW.	31	SW.	0	1	2	4	1	0	15	4	4	0	11	14	6	9	8	0	0	0	0	0	0	0	3	2
September	9.8	SW.	46	SW.	2	2	0	5	0	2	13	5	3	0	12	12	6	13	12	0	0	0	0	0	0	0	5	6
October	10.5	SW.	46	W.	1	2	0	5	2	4	8	6	4	0	12	8	11	16	14	2	0	0	0	0	0	6	1	3
November	11.7	E.	42	W.	1	2	3	10	1	2	4	6	2	0	3	5	22	21	16	15	13	0	0	11	0	26	0	2
December	11.9	SW.	70	SW.	4	3	1	1	1	5	9	6	5	0	6	9	16	13	11	17	9	0	0	19	0	29	0	2
Year	10.5	SW.	70	SW.	19	30	22	58	10	32	119	63	31	0	137	110	118	150	120	79	51	0	3	68	12	147	30	29

CAPE HENRY, VA.

[H_b=18 ft.: h_t=8 ft.; h_r=3 feet.; 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	16.7	NE.	58	NE.	7	3	11	2	2	1	6	6	0	0	9	10	12	4	3	1	0	0	0	2	0	8	0	0
February	14.5	NE.	51	N.	5	6	5	3	2	4	4	1	3	0	7	9	12	10	8	2	0	0	6	0	0	2	1	0
March	14.7	SW.	69	N.	5	1	2	6	5	4	13	0	0	0	13	10	8	13	10	0	0	0	4	0	0	0	3	0
April	14.6	SW.	55	N.	4	5	2	2	4	9	7	0	1	0	8	11	11	10	9	0	0	0	4	0	1	0	2	0
May	13.1	E.	47	SE.	4	1	4	6	5	3	6	1	5	0	5	9	17	13	10	0	0	0	8	0	1	0	6	0
June	10.5	E.	43	NE.	1	2	2	6	3	8	9	0	0	0	9	14	7	9	7	0	0	0	3	0	5	0	8	0
July	9.8	SW.	39	N.	0	2	1	4	3	7	9	4	1	0	12	12	7	10	9	0	0	0	0	0	8	0	12	0
August	13.0	NE.	36	NW.	2	0	4	9	2	5	9	1	1	0	11	15	5	9	6	0	0	0	0	0	9	0	4	0
September	9.9	E.	41	N.	1	1	0	5	7	7	10	0	0	0	12	15	3	7	5	0	0	0	1	0	4	0	6	0
October	15.3	SE.	63	NW.	6	2	3	4	6	4	8	2	2	0	17	6	8	4	2	0	0	0	1	0	0	0	1	0
November	12.9	NE.	50	N.	4	0	7	3	3	8	4	2	3	0	12	8	10	8	4	0	0	0	1	0	0	0	0	0
December	14.9	N.	60	N.	8	8	1	3	4	2	7	3	3	0	7	10	14	9	6	2	0	0	0	0	0	4	1	0
Year	13.3	SW.	69	N.	47	31	42	53	46	62	92	20	19	0	122	129	114	106	79	5	0	0	28	2	28	14	44	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	10.2	NW.*	36	NW.	0	6	11	1	2	8	8	10	16	0	14	5	12	7	5	3	1	0	0	5	0	17	0	0
February	9.9	NW.	38	NE.	0	11	5	5	4	6	5	7	13	0	11	4	13	11	7	4	3	0	2	0	0	12	0	0
March	10.3	S.	36	N.	0	5	3	5	10	18	8	3	10	0	17	7	7	12	10	0	0	0	5	0	0	5	0	0
April	9.8	S.	36	S.	0	4	5	6	5	17	7	1	14	1	9	4	17	14	10	1	1	0	4	0	0	2	3	0
May	9.4	S.	44	E.	1	7	10	7	7	13	6	7	4	1	13	5	13	11	10	0	0	0	2	0	0	0	0	2
June	7.6	S.	24	NW.	0	5	8	9	5	14	9	5	5	0	13	11	6	9	6	0	0	0	2	0	1	0	6	0
July	7.1	S.	24	NW.	0	3	7	7	6	18	12	1	5	1	12	6	13	9	6	0	0	0	2	0	3	0	5	0
August	7.4	SW.	29	NE.	0	9	9	6	6	11	12	6	3	0	18	6	7	8	6	0	0	0	6	0	2	0	4	0
September	7.8	S.	34	NW.	0	6	8	4	11	14	6	4	7	0	11	12	7	7	4	0	0	0	2	0	1	0	2	0
October	9.7	NW.	36	NW.	0	2	8	5	4	9	8	7	18	1	15	7	9	5	4	0	0	0	1	0	0	0	0	0
November	9.6	NW.	36	NW.	0	10	10	3	4	9	8	3	13	0	8	8	14	15	12	0	0	0	0	0	0	0	1	0
December	9.6	NW.	40	S.	2	15	2	1	2	8	7	5	22	0	11	8	12	13	6	7	5	0	0	2	0	18	0	0
Year	9.0	S.	44	E.	3	83	86	39	66	145	96	59	130	4	152	83	130	121	86	15	10	0	20	7	7	54	21	2

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1921—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	29.020	29.700	28.410	21.0	27.2	26.0	31.2	16.9	24.0	47	−5	19	22	22	90	80	84	0.107	0.123	0.125	0.58	0.27	5.8	6.7	5.1	7.6
February	28.937	29.570	28.290	20.9	29.4	28.7	35.5	16.9	26.2	64	5	19	23	23	90	75	78	.103	.123	.125	.95	.36	6.9	5.6	5.4	6.3
March	28.906	29.620	28.330	32.5	41.4	40.3	48.1	28.9	38.5	77	8	29	30	31	85	65	70	.169	.183	.185	.93	.33	6.1	6.1	4.7	6.0
April	28.846	29.490	28.300	43.5	57.0	54.9	61.5	39.9	50.7	80	26	38	40	41	81	56	64	.246	.266	.277	3.59	.79	5.9	6.0	6.0	6.2
May	28.946	29.248	28.510	56.2	68.0	64.4	71.5	51.0	61.2	91	31	50	52	52	79	60	65	.382	.418	.414	5.96	1.64	5.5	5.8	5.7	5.7
June	28.897	29.350	28.710	68.4	80.1	77.5	84.4	63.1	73.8	95	45	62	62	65	81	56	66	.577	.583	.625	2.93	1.07	5.2	5.2	6.1	4.8
July	28.934	29.190	28.614	71.9	85.6	84.1	88.9	66.0	77.4	96	53	65	63	64	80	49	52	.627	.587	.611	1.83	1.23	3.4	3.9	3.3	3.5
August	28.957	29.267	28.610	63.5	76.6	73.9	80.4	59.3	69.8	92	49	59	60	61	86	59	65	.515	.550	.552	6.74	2.94	4.6	5.1	5.0	4.9
September	28.868	29.230	28.460	57.8	70.9	66.4	74.8	53.5	64.2	85	37	54	55	57	86	59	74	.431	.451	.488	7.07	1.97	5.0	4.6	4.2	5.1
October	28.871	29.200	28.520	43.7	57.9	52.5	61.0	41.3	51.2	77	30	39	42	43	85	58	71	.247	.276	.282	2.27	.77	5.1	5.1	4.4	5.7
November	28.979	29.370	28.620	26.6	34.3	31.2	36.7	23.5	30.1	56	3	24	28	27	91	77	85	.135	.153	.151	.96	.41	7.0	7.7	7.0	7.7
December	28.975	29.520	28.397	20.6	28.3	25.3	32.4	15.7	24.0	51	−12	18	22	20	87	74	80	.105	.126	.120	.85	.77	6.6	5.6	5.0	6.5
Year	28.928	29.700	28.290	43.9	54.7	52.1	58.9	39.7	49.3	96	−12	40	42	42	85	64	71	.304	.320	.330	34.66	2.94	5.6	5.6	5.2	5.8

CHARLESTON, S. C.

[ϕ=32° 47′ N.; λ=79° 56′ 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	30.149	30.710	29.680	45.9	56.4	51.4	60.2	43.5	51.8	73	30	40	43	44	82	62	77	0.270	0.294	0.302	1.58	1.06	5.6	5.5	3.3	5.2
February	30.035	30.320	29.620	48.8	57.6	53.2	61.1	46.2	53.6	79	37	45	46	48	89	69	83	.317	.329	.342	1.26	.43	5.2	5.7	4.9	5.6
March	30.124	30.400	29.850	60.4	69.6	62.9	73.0	57.2	65.1	86	45	56	56	58	87	64	84	.473	.463	.492	2.66	.98	3.7	5.7	4.3	5.2
April	30.030	30.280	29.660	63.9	70.8	66.3	73.8	58.8	65.3	86	42	55	53	56	73	55	71	.458	.433	.477	2.06	.83	4.6	5.3	4.7	5.0
May	29.934	30.250	29.660	68.0	75.0	70.3	77.6	63.4	70.5	97	50	60	60	62	77	63	76	.541	.552	.576	5.92	2.93	5.2	5.6	6.5	5.8
June	29.951	30.155	29.620	78.8	85.2	78.3	87.1	72.8	80.0	100	61	68	68	70	72	59	77	.706	.709	.745	.61	.22	3.6	4.2	5.2	4.5
July	29.994	30.220	29.800	79.5	83.2	79.9	86.5	74.6	80.6	93	71	73	73	74	81	71	82	.806	.805	.830	16.61	7.58	6.3	7.0	6.1	6.5
August	30.038	30.230	29.840	78.2	84.9	79.5	87.2	74.4	80.8	96	65	72	71	73	82	64	80	.792	.762	.806	5.70	3.28	4.9	5.1	4.1	4.7
September	30.002	30.170	29.770	78.7	87.2	80.6	89.4	74.4	81.9	98	68	72	70	72	80	59	77	.779	.749	.801	5.19	1.33	1.9	2.7	2.5	2.8
October	29.961	30.360	29.647	63.2	72.0	66.9	73.9	59.4	66.6	87	49	56	55	57	79	58	72	.476	.465	.492	1.70	.69	4.3	4.5	4.0	4.4
November	30.045	30.300	29.570	57.2	67.2	61.0	70.0	53.9	62.0	89	40	52	54	55	85	64	81	.411	.441	.449	1.82	.98	4.0	4.8	4.3	4.5
December	30.057	30.480	29.530	49.0	61.0	55.0	63.6	46.3	55.0	76	36	42	43	46	78	54	72	.285	.302	.321	.51	.20	4.6	3.9	4.1	4.1
Year	30.027	30.710	29.530	64.3	72.5	67.1	75.3	60.4	67.8	100	30	58	58	60	80	62	78	.526	.525	.553	45.62	7.58	4.5	5.0	4.5	4.9

CHARLOTTE, N. C.

[ϕ=35° 13′ N.; λ=80° 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	29.347	30.000	28.810	37.1	46.9	44.7	50.8	33.6	42.2	71	21	31	34	34	77	63	67	0.181	0.209	0.204	5.22	1.92	7.0	6.7	4.6	6.5
February	29.240	29.600	28.780	39.6	49.0	48.0	54.3	35.7	45.5	72	22	36	40	40	85	72	75	.220	.263	.256	4.61	1.63	5.8	6.2	4.5	6.0
March	29.321	29.600	28.990	52.9	64.7	62.9	69.9	49.2	59.6	85	35	46	51	50	79	62	65	.336	.394	.380	1.84	.52	5.8	5.5	3.9	5.6
April	29.238	29.560	28.830	56.6	67.8	63.6	72.1	51.1	61.6	86	34	47	46	45	72	47	55	.347	.334	.331	1.99	.80	5.1	5.6	4.0	5.0
May	29.165	29.530	28.850	62.3	71.4	67.8	75.8	56.2	66.0	89	43	54	53	55	77	56	66	.446	.428	.452	4.50	1.01	5.6	6.1	6.4	6.2
June	29.180	29.458	28.900	73.6	84.0	78.6	88.8	67.3	78.0	99	56	64	62	63	73	49	61	.608	.576	.592	1.33	.51	4.6	6.0	5.7	5.4
July	29.212	29.480	28.950	75.3	84.4	79.2	88.8	70.2	79.5	98	63	69	67	68	81	57	71	.709	.663	.696	5.55	1.95	5.5	5.7	6.9	5.7
August	29.270	29.440	29.080	72.0	80.5	77.0	84.5	67.7	76.1	98	58	65	64	66	79	59	69	.625	.602	.635	2.78	.72	6.3	6.5	5.1	6.2
September	29.227	29.420	28.990	73.1	85.2	79.2	89.3	69.1	79.2	96	60	66	64	66	80	51	66	.654	.609	.639	2.55	1.14	4.2	4.8	4.0	4.6
October	29.204	29.700	28.800	53.8	67.6	63.2	71.9	49.7	60.8	83	38	44	42	43	71	43	50	.307	.293	.298	1.76	1.22	3.7	2.8	2.5	3.1
November	29.242	29.560	28.710	48.0	58.4	55.5	63.2	44.8	54.0	75	29	43	45	46	83	65	72	.289	.320	.324	4.02	1.63	5.4	5.9	5.2	6.0
December	29.240	29.770	28.650	40.8	52.1	48.7	56.1	38.1	47.1	69	28	35	38	36	78	60	64	.210	.238	.227	2.66	1.54	5.1	5.1	4.5	5.6
Year	29.240	30.000	28.650	57.1	67.7	64.0	72.1	52.8	62.5	99	21	50	50	51	78	57	65	.411	.411	.420	38.81	1.95	5.3	5.6	4.8	5.4

CHATTANOOGA, TENN.

[ϕ=35° 04′ N.; λ=85° 14′ 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	29.407	29.900	28.970	39.1	46.7	46.8	52.0	36.2	44.1	66	27	32	32	33	74	58	62	0.186	0.187	0.198	4.46	1.49	6.2	7.2	5.0	6.4
February	29.286	29.610	28.760	40.3	49.5	49.3	55.0	37.5	46.2	75	25	34	33	37	79	65	65	.209	.229	.229	7.43	2.23	6.0	5.5	4.8	5.9
March	29.332	29.590	29.080	54.1	64.6	64.2	70.8	50.8	60.8	84	32	46	49	48	76	60	58	.339	.359	.356	3.33	1.28	5.9	6.1	4.6	5.8
April	29.287	29.630	28.810	53.2	64.9	65.0	70.8	49.9	60.4	83	35	44	45	45	71	51	50	.307	.324	.318	5.09	3.86	3.8	4.7	4.4	4.6
May	29.215	29.500	28.950	62.0	73.6	72.5	78.6	58.2	68.4	92	43	53	55	56	72	56	58	.416	.455	.469	4.02	1.95	5.2	5.5	5.2	5.4
June	29.212	29.450	28.990	73.2	84.5	80.6	88.8	69.0	78.9	94	65	65	64	66	75	52	62	.616	.602	.632	2.73	.93	4.9	5.5	5.8	5.7
July	29.242	29.500	29.050	74.0	85.5	81.1	89.9	70.5	80.2	98	66	68	68	69	81	56	68	.680	.682	.701	4.52	1.29	5.0	4.8	6.4	5.5
August	29.296	29.490	29.100	71.3	81.5	79.3	86.0	68.9	77.4	95	61	66	67	68	83	63	70	.637	.666	.688	4.88	1.40	6.2	5.9	5.2	5.9
September	29.267	29.430	29.090	70.5	84.3	78.7	88.2	68.2	78.2	93	56	67	67	68	88	56	72	.655	.654	.693	4.04	1.85	4.1	5.7	5.2	5.1
October	29.245	29.666	28.904	50.1	65.4	62.7	70.1	47.6	58.8	79	37	43	46	47	78	52	58	.292	.326	.331	2.43	.86	2.8	2.9	2.8	2.9
November	29.300	29.620	28.725	46.6	57.5	56.1	62.1	43.3	52.7	76	30	43	46	47	86	72	73	.291	.354	.336	5.39	1.69	6.8	5.8	6.0	6.1
December	29.316	29.640	28.790	42.6	50.7	48.7	55.2	38.5	46.8	65	29	35	36	35	74	60	61	.210	.225	.213	2.86	1.15	5.7	5.4	5.0	5.8
Year	29.284	29.900	28.725	56.4	67.4	65.4	72.3	53.2	62.7	98	25	50	51	52	78	58	63	.403	.424	.430	51.18	3.86	5.2	5.4	5.0	5.4

Annual meteorological summary for the year ending December 31, 1921—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.	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	6.9	NW.	25	S.	0	7	6	4	6	16	4	1	18	0	4	9	18	5	5	5	4	0	4	17	0	31	0	0
February	7.3	NW.	40	NW.	1	5	7	5	8	6	7	4	14	0	6	11	11	7	5	10	7	0	0	12	0	27	0	0
March	8.9	S.	35	NW.	0	8	5	5	8	16	7	1	12	0	7	11	13	8	5	2	1	0	1	1	0	23	2	0
April	9.0	NW.	30	SW.	0	5	3	3	9	17	2	4	17	0	6	12	12	10	8	2	1	0	0	0	0	9	2	0
May	6.4	SE.	27	NW.	0	3	9	10	14	12	3	1	10	0	8	15	8	11	10	0	0	0	0	0	1	2	10	2
June	4.8	SE.	19	SW.	0	6	7	4	13	10	5	3	12	0	8	20	2	12	10	0	0	1	0	0	9	0	9	0
July	5.1	SW.	24	NW.	0	7	5	6	6	20	9	5	4	0	14	16	1	9	5	0	0	0	0	0	13	0	5	0
August	5.2	S.	18	SW.	0	7	3	8	16	11	8	0	9	0	10	17	4	6	6	0	0	0	0	0	2	0	5	0
September	6.0	NW.	26	SW.	0	5	3	6	10	15	5	6	10	0	10	11	9	13	11	0	0	2	0	0	0	0	7	0
October	7.0	NW.	27	NE.	0	5	10	6	7	10	6	4	14	0	9	12	10	8	5	0	0	2	1	0	0	3	1	0
November	6.4	NW.	24	S.	0	10	9	3	7	12	2	0	17	0	5	5	20	8	6	10	7	0	0	9	0	25	0	0
December	7.9	NW.	38	NW.	0	8	6	3	3	6	5	8	23	0	6	14	11	4	3	6	2	0	1	14	0	31	0	0
Year	6.7	NW.	40	NW.	1	76	73	63	107	151	63	37	160	0	93	153	119	101	79	35	22	5	7	53	25	151	41	2

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	11.2	SW.	34	NW.	0	12	9	2	5	3	14	9	8	0	10	12	9	10	7	0	0	0	3	0	0	2	1	0
February	10.4	SW.	33	N.	0	8	10	0	4	8	13	5	8	0	9	7	12	10	8	0	0	0	4	0	0	0	1	0
March	10.7	S.	38	N.	0	5	9	5	5	18	13	3	4	0	13	8	10	7	5	0	0	0	5	0	0	0	2	0
April	11.5	S.	42	SE.	1	10	8	4	7	10	9	5	7	0	11	10	9	9	6	0	0	0	0	0	0	0	5	0
May	10.2	NE.	33	NW.	0	8	10	7	4	5	9	7	11	1	8	13	10	11	6	0	0	0	0	0	2	0	6	0
June	10.7	S.	37	W.	0	4	11	7	1	11	19	4	3	0	14	12	4	7	5	0	0	0	0	0	11	0	10	0
July	10.1	S.	33	S.	0	1	5	3	9	13	20	10	1	0	3	18	10	19	17	0	0	0	0	0	8	0	13	0
August	9.0	S.	33	NE.	0	7	9	7	1	10	15	10	3	0	12	12	7	13	12	0	0	0	2	0	11	0	14	0
September	7.9	S.	34	NE.	0	6	5	4	8	8	12	9	8	0	20	9	1	6	6	0	0	0	0	0	13	0	8	0
October	11.8	NE.	43	NE.	1	13	18	3	2	7	10	0	9	0	16	6	9	8	7	0	0	0	0	0	0	0	2	0
November	8.7	W.	35	W.	0	8	10	2	5	3	13	13	6	0	13	9	8	6	6	0	0	0	0	0	0	0	1	0
December	10.7	W.	35	NE.	0	6	14	1	1	5	10	15	10	0	14	11	6	6	4	0	0	0	1	0	0	0	0	0
Year	10.2	SW.	43	NE.	2	88	118	45	52	101	157	90	78	1	143	127	95	112	89	0	0	0	15	0	45	2	63	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	6.4	SW.	26	W.	0	5	18	3	1	6	17	5	7	0	8	8	15	10	9	5	4	0	3	1	0	14	0	0
February	5.5	SW.	29	W.	0	10	10	2	7	9	7	5	6	0	9	4	15	12	9	4	4	0	3	0	0	10	2	0
March	6.4	SW.	26	SW.	0	8	10	5	6	14	17	0	2	0	12	5	14	10	6	0	0	0	1	0	0	0	1	0
April	5.8	S.	23	SW.	0	6	11	3	5	13	7	5	9	1	12	8	10	8	6	0	0	0	0	0	0	0	3	0
May	4.8	NE.	21	NW.	0	7	14	8	3	5	5	6	12	2	9	6	16	13	10	0	0	0	0	0	0	0	4	0
June	4.2	NE.	19	NW.	0	4	14	5	5	4	9	11	7	1	6	19	5	9	5	0	0	0	0	0	15	0	11	0
July	3.7	SW.	18	S.	0	5	6	7	10	10	14	6	1	3	5	17	9	12	8	0	0	0	0	0	13	0	13	0
August	3.9	SW.	27	NW.	0	4	14	8	4	4	14	9	4	1	10	5	16	12	8	0	0	0	0	0	8	0	5	0
September	3.0	N.	20	W.	0	12	6	4	5	6	12	3	6	6	15	8	7	8	7	0	0	0	0	0	15	0	8	0
October	5.0	NE.	25	NW.	0	9	17	5	3	4	11	3	6	4	19	5	7	4	3	0	0	0	0	0	0	0	1	0
November	4.6	NE.	29	NW.	0	10	13	2	3	8	10	8	4	2	10	4	16	11	10	0	0	0	5	0	0	1	0	0
December	5.8	SW.	27	W.	0	7	9	5	5	8	16	4	7	1	12	7	12	5	4	0	0	0	0	0	0	6	0	0
Year	4.9	SW.	29	W.	0	87	142	57	57	91	139	65	71	21	127	96	142	114	85	9	8	0	12	1	51	31	48	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	7.5	*NW.	34	SW.	0	11	4	2	10	7	5	7	16	0	6	14	11	13	11	5	5	0	7	0	0	7	0	0
February	8.5	SW.	40	SW.	1	7	7	1	6	6	12	7	10	0	8	10	10	16	13	3	3	0	4	0	0	10	5	0
March	9.3	SE.	38	SW.	0	9	4	0	19	9	14	3	4	0	7	14	10	11	8	0	0	1	1	0	0	1	4	0
April	9.1	NW.	40	W.	1	8	3	3	11	8	6	7	13	1	11	13	6	5	5	0	0	0	1	0	0	0	3	0
May	6.8	NW.	39	W.	0	15	8	0	5	1	10	7	15	1	8	18	5	6	4	0	0	1	0	0	1	0	5	0
June	5.8	W.	38	N.	0	5	6	2	11	4	10	18	4	0	6	17	7	9	9	0	0	0	0	0	13	0	12	0
July	5.4	NE.	36	W.	0	4	15	6	4	5	10	10	7	1	4	24	3	14	10	0	0	0	1	0	16	0	12	0
August	5.4	SE.	43	SW.	1	4	6	3	16	4	10	11	6	2	6	17	8	14	12	0	0	0	0	0	8	0	11	0
September	4.7	W.	38	NW.	0	6	3	2	4	7	11	15	9	3	9	18	3	13	7	0	0	0	1	0	15	0	11	0
October	6.6	NW.	32	NW.	0	7	8	0	7	2	12	5	14	6	21	7	3	8	6	0	0	0	3	0	0	0	0	0
November	7.3	N.	36	W.	0	12	5	3	11	5	6	9	6	3	9	8	13	14	11	0	0	0	5	0	0	2	3	0
December	8.9	NW.	34	W.	0	10	5	2	10	5	9	9	12	0	9	9	13	9	7	1	0	0	3	0	0	5	0	0
Year	7.1	NW.	43	SW.	3	98	74	24	114	63	115	109	116	17	104	169	92	132	103	9	8	2	26	0	53	25	66	0

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1921—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	23.951	24.250	23.580	24.9	34.9	29.0	38.6	17.8	28.2	57	−4	18	18	15	76	49	54	0.103	0.096	0.084	1.47	1.17	4.1	4.5	3.8	4.3
February	23.942	24.300	23.430	26.5	37.1	33.6	39.9	20.4	30.2	60	−4	17	17	19	67	44	55	.097	.096	.102	.36	.14	3.6	5.2	4.6	4.7
March	23.909	24.300	23.490	32.1	44.9	43.7	49.5	25.6	37.6	71	6	19	20	22	59	38	44	.102	.107	.116	.39	.22	3.5	5.2	5.5	4.7
April	23.894	24.380	23.437	31.9	44.9	45.0	49.7	27.9	38.8	69	11	22	22	22	70	44	45	.122	.114	.119	2.06	.91	5.2	5.1	6.2	5.3
May	23.958	24.240	23.570	42.5	56.5	57.3	61.5	39.2	50.4	75	30	35	36	38	81	51	52	.221	.222	.232	2.40	.97	6.2	6.3	5.7	5.7
June	24.043	24.230	23.726	54.3	69.5	68.0	73.3	50.0	61.6	88	42	46	44	45	75	45	49	.316	.294	.308	2.92	1.10	3.8	4.3	6.0	4.4
July	24.127	24.310	23.660	57.4	75.7	73.9	79.9	53.8	66.8	89	43	47	47	48	69	39	43	.325	.329	.340	1.37	.71	2.5	3.3	6.1	4.0
August	24.144	24.310	23.950	55.8	73.8	71.6	77.9	53.3	65.6	87	43	45	44	45	70	36	42	.305	.290	.305	.61	.45	3.6	4.1	5.4	4.5
September	24.031	24.240	23.760	48.3	67.3	66.5	72.6	44.3	58.4	82	32	32	30	32	56	28	31	.190	.177	.190	.02	.01	2.1	2.3	3.3	2.5
October	24.059	24.300	23.608	42.9	61.4	55.7	64.8	36.9	50.8	78	22	26	30	30	53	33	40	.141	.176	.169	.06	.06	3.5	3.4	3.4	3.4
November	23.973	24.250	23.660	35.0	46.8	41.5	50.0	27.2	38.6	67	13	19	21	22	54	40	47	.102	.113	.115	.34	.31	4.7	5.1	5.5	5.2
December	23.993	24.290	23.516	29.0	37.5	31.4	40.9	19.6	30.2	60	−8	17	19	18	62	49	58	.094	.103	.097	1.31	.77	4.2	4.9	4.5	4.9
Year	24.002	24.380	23.430	40.0	54.2	51.4	58.2	34.7	46.4	89	−8	29	29	30	66	41	47	.176	.176	.181	13.25	1.17	3.9	4.5	5.0	4.5

CHICAGO, ILL.

[ϕ=41° 53′ N.; λ=87° 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	29.231	29.940	28.620	30.8	35.0	34.0	37.7	27.1	32.4	56	8	24	25	26	75	66	70	0.138	0.146	0.144	0.97	0.44	5.7	5.5	5.3	5.4
February	29.141	29.670	28.670	31.6	34.6	35.7	38.7	28.2	33.4	66	17	26	27	27	78	72	70	.144	.149	.152	.38	.17	6.3	8.2	7.4	7.7
March	29.141	29.810	28.540	41.4	46.9	47.6	55.3	33.2	45.8	78	19	36	39	39	82	75	73	.236	.261	.259	4.06	.66	6.5	6.4	6.9	6.4
April	29.092	29.590	28.500	49.5	57.5	55.6	62.5	45.9	54.2	81	28	41	41	41	73	57	59	.270	.279	.275	4.47	1.97	5.7	5.7	5.6	5.4
May	29.147	29.460	28.810	58.5	65.3	63.3	69.1	54.3	61.7	93	39	47	47	46	67	54	57	.344	.347	.331	.80	.45	4.5	4.5	5.6	4.3
June	29.111	29.503	28.860	71.4	75.5	75.4	80.1	67.5	73.8	95	49	61	62	62	71	64	63	.554	.565	.566	1.57	.85	5.1	5.2	4.6	4.8
July	29.134	29.300	28.898	77.8	84.4	82.3	87.9	74.5	81.2	97	67	64	64	65	64	52	57	.612	.604	.621	1.87	1.79	2.4	5.1	4.4	3.3
August	29.172	29.470	28.810	69.3	76.0	74.0	78.3	67.2	72.8	91	61	59	59	61	70	58	65	.507	.522	.548	4.92	2.09	4.0	4.3	4.6	4.3
September	29.107	29.400	28.700	65.7	73.0	72.3	76.6	63.5	70.0	88	51	56	57	60	73	60	66	.474	.492	.528	5.72	1.45	4.4	4.5	3.7	4.0
October	29.073	29.560	28.710	50.3	58.1	56.8	61.8	47.8	54.8	79	36	42	43	44	75	58	65	.279	.286	.302	3.26	.89	4.3	5.0	4.7	4.2
November	29.156	29.600	28.790	38.3	42.5	42.1	45.9	35.6	40.8	65	22	33	34	35	81	72	76	.189	.200	.207	3.51	1.91	7.4	7.7	6.7	7.5
December	29.135	29.600	28.400	31.2	34.4	34.2	38.6	26.4	32.5	57	8	24	27	28	75	72	77	.137	.149	.158	4.63	2.60	7.4	7.6	7.0	7.4
Year	29.137	29.940	28.400	51.3	56.9	56.2	61.0	47.8	54.4	97	8	43	44	44	74	63	66	.324	.333	.341	36.10	2.60	5.3	5.8	5.5	5.4

CHICAGO UNIVERSITY, ILL.

[ϕ=41° 47′ N.; λ=87° 35′ 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	30.180	28.820	29.3	34.5	32.7	37.1	26.0	31.6	55	6	23	25	25	77	66	71	0.133	0.141	0.140	1.02	0.41	6.1	5.2	4.8	4.9
February	29.331	29.865	28.839	30.0	34.1	34.3	37.7	27.4	32.6	66	16	25	25	27	80	70	72	.138	.142	.151	.37	.19	6.2	8.5	6.8	7.8
March	29.329	30.020	28.750	39.8	47.2	46.3	55.3	35.5	45.4	79	18	34	36	36	78	65	69	.214	.230	.235	4.42	1.11	6.8	6.3	6.5	6.2
April	29.277	29.790	28.670	48.2	57.6	55.4	62.1	45.1	53.6	80	29	40	41	42	75	57	62	.266	.275	.282	4.10	1.73	5.6	5.3	5.1	5.1
May	29.328	29.635	29.000	57.2	65.3	61.4	68.4	52.7	60.6	92	38	48	48	47	72	56	62	.360	.358	.342	.83	.33	4.5	4.1	5.1	4.4
June	29.283	29.674	29.040	69.6	77.0	74.3	80.3	66.2	73.2	93	49	62	62	62	77	61	68	.574	.574	.583	1.74	1.38	5.0	4.2	4.5	4.4
July	29.306	29.490	29.050	75.0	84.5	80.8	87.1	71.6	79.4	96	62	65	64	65	72	53	61	.633	.621	.631	2.59	2.43	1.7	4.0	3.4	3.0
August	29.349	29.650	28.970	67.5	76.3	72.5	78.2	65.0	71.6	90	56	60	60	62	77	60	71	.529	.544	.568	4.81	1.78	3.9	3.9	4.1	4.0
September	29.285	29.565	28.870	63.8	73.8	70.0	76.5	60.4	68.4	89	49	58	58	60	82	60	73	.497	.511	.546	3.64	.98	4.1	4.0	3.2	4.0
October	29.257	29.700	28.900	48.7	59.1	55.2	61.8	46.2	54.0	79	36	42	43	44	79	58	68	.281	.290	.301	2.89	.75	4.0	4.5	4.5	4.4
November	29.340	29.780	28.950	37.4	42.5	40.9	45.4	34.7	40.0	65	22	32	34	34	81	73	76	.184	.202	.201	3.52	2.01	6.7	7.5	6.6	7.4
December	29.327	29.810	28.540	29.4	33.7	32.3	37.7	25.7	31.7	56	7	24	26	27	80	74	79	.136	.147	.150	3.51	1.92	6.9	7.0	7.0	7.4
Year	29.319	30.180	28.540	49.7	57.1	54.7	60.6	46.4	53.5	96	6	43	44	44	78	63	69	.329	.336	.344	33.44	2.43	5.1	5.4	5.1	5.2

CINCINNATI, OHIO (ABBE OBSERVATORY).

[ϕ=39° 06′ N.; λ=84° 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	29.497	30.200	28.960	32.0	38.8	....	43.0	28.8	35.9	61	14	26	27	33	79	63	78	0.149	0.160	0.203	1.72	0.77	6.8	5.9	5.4	6.2
February	29.397	29.920	28.840	32.8	39.0	....	44.0	29.9	37.0	70	15	28	30	35	82	70	80	.156	.173	.209	2.25	.73	7.1	8.0	6.5	7.6
March	29.413	29.920	28.920	46.8	56.0	....	63.0	41.7	52.4	80	22	40	42	46	77	61	68	.261	.285	.330	6.00	1.75	7.3	6.2	4.1	6.7
April	29.378	29.803	28.800	52.0	62.7	....	66.8	45.7	56.2	82	26	43	42	48	72	51	63	.291	.286	.354	3.19	.57	4.7	5.6	4.7	5.3
May	29.350	29.635	28.960	61.0	71.4	....	74.4	54.8	64.6	89	39	52	52	60	74	53	74	.414	.420	.547	2.79	.91	4.0	4.5	4.9	4.3
June	29.325	29.620	29.080	72.1	82.0	....	85.5	65.4	75.4	93	46	64	64	68	76	56	67	.606	.610	.668	2.35	.51	3.6	4.6	6.0	4.5
July	29.349	29.610	29.150	75.2	87.7	....	90.8	68.6	79.7	98	62	67	64	63	77	47	51	.668	.604	.583	4.28	2.08	3.4	4.0	4.3	4.1
August	29.398	29.600	29.120	68.2	79.8	....	83.0	62.5	72.8	90	53	62	63	66	82	58	68	.574	.594	.609	6.62	2.69	3.8	4.6	3.8	4.1
September	29.367	29.600	28.980	66.9	78.4	....	81.0	63.0	72.3	90	48	63	63	66	88	61	76	.594	.597	.666	3.00	.95	5.7	5.6	5.3	5.6
October	29.354	29.860	28.880	48.0	63.5	....	66.5	43.9	55.2	80	28	42	43	47	83	50	67	.278	.289	.329	2.72	1.33	4.5	4.5	2.8	4.2
November	29.383	29.804	28.860	41.4	49.8	....	54.8	36.7	45.8	69	25	38	39	42	89	69	76	.248	.257	.275	5.67	1.35	6.7	6.2	5.6	6.7
December	29.393	29.790	28.716	34.0	38.6	....	43.0	29.8	36.4	62	20	29	30	32	82	72	76	.165	.178	.183	4.86	3.34	6.3	7.5	7.4	7.9
Year	29.384	30.200	28.716	52.5	62.3	....	66.4	47.6	57.0	98	14	46	47	50	80	59	70	.367	.371	.419	45.45	3.34	5.5	5.8	5.1	5.6

Annual meteorological summary for the year ending December 31, 1921—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 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	16.2	W.	72	W.	9	4	3	1	2	7	5	24	16	0	13	14	4	6	4	9	6	0	0	9	0	30	0	0
February	16.0	W.	72	W.	10	2	2	0	1	4	9	19	19	0	10	14	4	6	3	10	6	0	0	8	0	21	0	1
March	15.3	W.	54	W.	9	6	1	3	2	10	4	29	7	0	11	13	7	6	3	9	5	0	0	2	0	21	0	0
April	15.2	W.	50	NE.	6	12	4	1	0	7	7	18	11	0	7	14	9	9	7	12	7	0	0	1	0	19	0	0
May	11.3	S.	45	W.	1	9	7	4	12	9	5	8	8	0	5	17	9	11	8	3	2	3	2	0	0	3	13	0
June	10.2	SE.	43	NW.	2	3	5	4	14	7	3	15	9	0	14	9	7	12	10	0	0	1	1	0	0	0	11	0
July	9.9	S.	48	S.	1	10	0	3	3	16	8	16	6	0	15	13	3	10	6	0	0	0	0	0	0	0	11	0
August	10.4	W.	37	W.	0	7	4	0	4	14	6	17	10	0	12	14	5	9	5	0	0	0	1	0	0	0	8	0
September	13.4	W.	58	W.	3	9	0	4	9	12	6	11	9	0	21	7	2	2	0	0	0	0	1	0	0	0	3	0
October	11.9	W.	43	W.	2	7	3	2	0	10	5	19	16	0	17	10	4	2	1	3	1	0	0	0	0	9	0	0
November	12.6	W.	53	W.	6	7	0	4	0	7	10	27	5	0	11	11	8	4	2	6	4	0	0	3	0	23	0	0
December	15.4	W.	65	W.	8	5	2	0	5	8	9	20	13	0	13	11	7	4	4	6	4	0	1	8	0	29	0	0
Year	13.2	W.	72	W.	57	81	31	26	52	111	77	223	129	0	149	147	69	81	53	58	35	4	6	31	0	155	46	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 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	13.6	W.	37	W.	0	4	9	4	5	11	10	9	10	0	12	9	10	9	7	8	4	0	0	9	0	23	1	0
February	12.7	W.	50	W.	2	4	9	3	4	7	6	12	11	0	3	8	17	6	3	16	4	0	2	6	0	21	0	0
March	14.1	S.	39	S.	0	4	11	3	5	12	11	5	11	0	6	10	15	19	11	3	0	0	3	0	0	8	7	0
April	15.3	S.	56	NE.	3	6	6	2	4	14	14	8	6	0	9	11	10	11	12	4	4	1	0	0	0	4	5	0
May	12.0	N.	38	W.	0	20	9	4	5	6	6	10	2	0	13	10	8	10	4	0	0	0	0	0	5	0	4	2
June	9.3	NE.	30	N.	0	8	13	7	10	6	8	2	6	0	11	14	5	6	6	0	0	1	0	0	3	0	8	0
July	9.6	SW.	40	W.	1	10	9	7	7	3	10	6	10	0	17	13	1	3	2	0	0	0	0	0	12	0	3	0
August	10.1	NE.	33	S.	0	10	10	4	10	8	8	6	5	1	16	8	7	14	9	0	0	0	0	0	2	0	7	0
September	10.7	SW.	39	W.	0	6	5	4	6	9	12	11	7	0	15	10	5	16	14	0	0	0	1	0	0	0	12	0
October	14.0	SW.	60	S.	1	4	5	4	5	6	13	8	17	0	14	10	7	11	10	1	0	0	0	0	0	0	6	0
November	12.6	NW.	44	NE.	1	7	7	6	5	4	10	6	15	0	4	8	18	13	7	8	5	0	2	0	0	10	1	0
December	13.4	NW.	50	SW.	1	4	2	0	4	9	11	12	20	0	3	10	18	12	6	10	5	0	0	8	0	21	0	0
Year	12.3	NW.	60	S.	9	87	95	48	70	95	119	95	120	1	123	121	121	133	91	50	22	2	8	23	22	87	54	2

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 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	13.0	SW.	40	NW.	1	5	8	3	10	6	14	9	7	0	14	9	8	9	7	6	4	0	0	9	0	24	1	0
February	11.7	NE.	38	W.	0	3	10	5	5	6	10	11	6	0	3	8	17	6	3	14	2	0	2	6	0	22	0	0
March	13.6	SW.	43	SW.	1	3	12	5	12	10	8	6	6	0	6	13	12	21	12	2	0	1	1	0	0	8	7	0
April	14.3	SW.	50	NE.	4	1	11	3	6	17	12	5	5	0	10	11	9	15	11	4	3	1	0	0	0	4	5	0
May	11.6	NE.	40	NW.	1	5	23	4	9	7	5	6	3	0	12	12	7	11	6	0	0	0	0	0	3	0	3	1
June	8.8	NE.	32	NE.	0	5	16	8	10	8	7	4	2	0	10	15	5	6	4	0	0	0	0	0	1	0	7	0
July	9.1	NE.	31	SW.	0	3	17	6	7	6	12	3	7	1	20	10	1	3	2	0	0	0	0	0	12	0	5	0
August	9.5	NE.	36	NW.	0	3	12	6	12	9	10	6	3	1	17	8	6	12	12	0	0	0	0	0	0	0	8	0
September	9.9	SW.	42	NW.	1	3	5	5	8	10	17	2	9	1	15	11	4	15	11	0	0	0	1	0	0	0	10	0
October	13.1	SW.	44	NW.	2	3	5	2	11	6	14	3	18	0	13	11	7	11	11	1	0	0	0	0	0	0	5	0
November	12.6	NE.	44	NE.	1	0	16	4	10	2	11	5	11	1	5	7	18	14	9	9	7	1	2	1	0	10	1	0
December	12.9	NW.	46	NW.	1	3	4	0	7	8	11	6	23	0	5	7	19	10	7	9	6	0	0	9	0	22	0	0
Year	11.7	SW.	50	NE.	12	37	139	51	107	95	131	66	100	4	130	122	113	133	95	45	22	3	6	25	16	90	52	1

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 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	9.4	SW.	29	W.	0	7	6	4	7	8	12	11	7	0	9	6	16	12	6	9	6	0	0	5	0	20	0	0
February	8.7	SW.	34	SW.	0	6	8	5	7	5	11	6	8	0	3	9	16	10	7	9	3	0	0	4	0	18	0	0
March	9.8	SW.	48	NW.	1	4	10	4	12	9	13	4	6	0	2	17	12	15	13	1	1	1	1	0	0	8	8	0
April	8.0	SW.	34	S.	0	2	1	2	8	17	12	12	4	2	10	10	10	13	11	2	0	0	0	0	0	3	6	0
May	6.6	NE.	29	NE.	0	13	15	2	9	4	6	6	7	0	13	10	8	13	9	0	0	0	0	0	0	0	9	3
June	5.9	SW.	23	NE.	0	0	13	7	14	1	14	6	5	0	12	10	8	13	11	0	0	0	0	0	8	0	11	0
July	5.1	SW.	27	NW.	0	9	12	4	12	6	12	5	2	0	14	15	2	11	8	0	0	1	1	0	22	0	14	0
August	5.3	NE.	22	NW.	0	7	18	2	8	8	12	4	2	1	16	9	6	12	9	0	0	0	2	0	0	0	11	0
September	5.5	SW.	35	W.	0	7	10	7	3	12	14	4	2	1	7	16	7	10	8	0	0	0	2	0	1	0	10	0
October	7.0	SW.	28	N.	0	3	5	1	8	12	16	8	9	0	16	5	10	9	7	1	0	0	4	0	0	2	0	0
November	8.6	SW.	42	NW.	1	6	8	2	10	13	10	2	9	0	7	7	16	13	11	2	0	0	1	0	0	6	6	0
December	9.5	SW.	41	SW.	1	6	9	4	10	4	16	4	9	0	3	8	20	12	8	9	3	0	2	1	0	22	2	0
Year	7.5	SW.	48	NW.	3	70	115	44	108	99	148	72	70	4	112	122	131	143	108	33	13	2	13	10	31	79	77	3

Annual meteorological summary for the year ending December 31, 1921—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	29.313	30.060	28.720	29.9	33.8	32.6	37.8	26.2	32.0	56	10	24	25	26	77	69	74	0.138	0.143	0.148	1.53	0.38	6.9	6.8	7.1	7.2
February	29.222	29.760	28.750	30.0	33.2	32.7	37.5	26.7	32.1	64	18	25	26	26	82	76	77	.138	.145	.144	2.19	.66	8.5	8.3	8.2	8.4
March	29.253	29.860	28.700	41.3	46.0	47.1	55.4	35.7	45.6	75	21	34	37	38	77	72	73	.211	.234	.252	4.39	1.38	7.6	7.9	7.6	7.8
April	29.202	29.610	28.600	50.3	57.4	56.2	62.3	45.5	53.9	86	27	40	42	44	70	61	65	.263	.292	.300	2.58	.95	5.1	5.5	6.2	5.7
May	29.201	29.500	28.980	56.6	61.9	62.5	67.0	52.7	59.8	85	39	48	49	49	75	66	63	.358	.372	.367	1.51	.71	4.9	5.1	4.9	5.2
June	29.185	29.541	28.890	67.8	71.6	72.3	76.9	62.8	69.8	88	50	58	61	59	73	69	63	.508	.544	.515	2.38	.72	5.4	4.0	4.8	4.9
July	29.197	29.390	28.950	74.3	80.5	79.5	84.3	69.3	76.8	95	62	65	65	64	73	61	62	.615	.618	.613	3.52	1.12	3.3	3.4	4.1	3.5
August	29.256	29.490	28.870	65.5	73.0	72.5	77.0	61.6	69.3	88	53	57	59	58	75	64	62	.474	.513	.501	3.32	1.14	4.8	5.3	2.6	4.5
September	29.194	29.500	28.720	65.8	71.9	70.7	75.9	62.1	69.0	86	50	59	60	60	79	68	69	.518	.540	.526	2.77	.74	5.6	5.2	4.5	5.1
October	29.152	29.660	28.740	49.0	57.9	55.2	61.4	45.8	53.6	77	37	41	44	43	75	62	66	.269	.295	.289	2.91	1.37	6.4	5.6	3.5	5.5
November	29.213	29.710	28.842	40.1	43.0	42.1	47.4	36.7	42.0	69	26	35	36	36	83	76	79	.218	.220	.218	3.93	1.45	8.9	8.8	8.0	9.0
December	29.191	29.650	28.470	31.3	34.0	33.2	37.8	27.3	32.6	58	11	26	27	26	81	75	73	.145	.152	.145	1.75	.40	8.7	8.4	8.2	8.7
Year	29.215	30.060	28.470	50.2	55.4	54.7	60.1	46.0	53.0	95	10	43	44	44	77	68	69	.321	.339	.335	32.78	1.45	6.3	6.2	5.8	6.3

COLUMBIA, MO.

[ϕ=38° 57′ N.; λ=92° 20′ W.]

January	29.289	29.920	28.770	33.1	39.8	....	45.2	28.5	36.8	63	7	28	29	....	80	67	....	0.165	0.174	.....	1.54	0.64	6.1	6.7	....	6.9
February	29.205	29.700	28.740	33.0	43.2	....	49.7	30.8	40.2	74	20	28	31	....	80	63	....	.153	.180	.....	.45	.21	4.7	4.5	....	4.8
March	29.177	29.830	28.750	44.9	56.6	....	63.2	40.8	52.0	81	19	38	40	....	77	56	....	.246	.271	.....	3.37	1.10	6.2	6.1	....	6.0
April	29.137	29.760	28.670	48.8	60.6	....	66.3	45.4	55.8	86	28	42	45	....	78	58	....	.283	.318	.....	5.51	1.52	5.5	6.3	....	5.7
May	29.188	29.474	28.820	60.1	72.2	....	75.5	56.2	65.8	90	39	53	56	....	79	59	....	.432	.484	.....	4.01	1.21	4.7	5.1	....	4.8
June	29.117	29.440	28.900	70.8	81.3	....	84.4	67.0	75.7	92	51	66	67	....	86	63	....	.659	.668	.....	3.18	.81	4.9	5.7	....	5.1
July	29.176	29.390	28.890	73.7	87.7	....	90.7	69.0	79.8	98	61	67	66	....	80	50	....	.658	.656	.....	2.69	1.03	3.3	3.4	....	3.3
August	29.186	29.440	28.930	69.6	82.2	....	86.0	66.7	76.4	96	55	66	68	....	88	63	....	.645	.684	.....	5.83	1.71	4.5	5.0	....	4.0
September	29.149	29.370	28.870	65.8	77.3	....	81.4	62.3	71.8	93	44	63	65	....	91	67	....	.587	.638	.....	10.04	2.37	5.8	5.2	....	5.2
October	29.150	29.560	28.738	47.9	64.0	....	69.0	46.0	57.5	82	32	42	44	....	81	50	....	.273	.298	.....	2.33	.85	2.7	3.6	....	3.1
November	29.208	29.600	28.820	37.7	47.3	....	53.7	33.7	43.7	75	17	33	35	....	84	65	....	.197	.214	.....	1.34	1.23	5.5	5.9	....	5.9
December	29.263	29.700	28.530	30.8	38.0	....	43.9	27.1	35.5	63	7	26	28	....	81	70	....	.143	.163	.....	1.41	.71	4.8	6.3	....	6.0
Year	29.187	29.920	28.530	51.4	62.5	....	67.4	47.8	57.6	98	7	46	48	....	82	61	....	.371	.396	.....	41.70	2.37	4.9	5.3	....	5.1

COLUMBIA, S. C.

[ϕ=34° 00′ N.; λ=81° 03′ W.]

January	29.832	30.450	29.370	39.8	51.3	49.6	56.5	37.4	47.0	74	25	34	40	38	78	66	67	0.208	0.263	0.248	3.26	1.15	5.3	5.9	3.6	5.6
February	29.712	30.030	29.260	43.1	53.3	53.4	59.1	41.2	50.2	76	29	38	40	40	82	64	63	.241	.269	.269	4.49	2.01	5.2	5.8	4.6	5.5
March	29.797	30.070	29.470	55.9	69.0	66.5	74.6	53.4	64.0	88	38	51	50	52	83	55	62	.390	.391	.406	.97	.35	6.0	5.0	4.5	5.3
April	29.712	30.000	29.350	58.4	70.7	66.5	74.7	53.8	64.2	86	37	50	48	48	74	48	55	.385	.370	.363	1.24	.37	4.8	5.2	4.3	4.6
May	29.627	29.960	29.358	63.7	74.7	70.4	78.5	58.9	68.7	93	46	56	55	58	76	53	68	.469	.454	.504	5.97	2.08	5.7	6.5	6.0	6.1
June	29.634	29.920	29.330	74.0	86.1	80.5	90.6	69.1	79.8	100	58	66	64	65	76	48	62	.644	.599	.624	2.53	1.04	3.4	5.1	6.0	4.8
July	29.673	29.940	29.420	75.0	85.0	78.5	88.5	71.3	79.9	96	68	71	69	70	87	61	77	.756	.714	.741	5.64	.89	6.7	7.0	6.7	7.0
August	29.725	29.920	29.500	73.5	83.4	78.4	87.1	69.9	78.5	97	61	68	67	67	85	59	70	.697	.648	.677	3.62	1.48	5.4	5.4	5.8	5.4
September	29.683	29.880	29.450	73.9	87.5	80.7	91.1	70.6	80.8	98	64	68	67	67	84	52	64	.696	.666	.662	1.83	.88	3.4	4.1	4.3	4.4
October	29.663	30.120	29.260	55.8	70.9	65.9	74.8	51.9	63.4	86	39	47	45	47	74	42	51	.343	.326	.357	.45	.23	3.7	3.6	2.5	3.6
November	29.717	30.020	29.200	50.2	63.4	59.4	68.3	48.4	58.4	81	35	45	48	48	84	60	68	.320	.352	.354	2.47	2.02	4.2	5.9	3.6	5.5
December	29.728	30.210	29.180	43.2	57.5	53.1	61.9	40.5	51.2	73	30	38	39	38	82	52	58	.245	.254	.244	1.21	.80	4.4	4.8	4.3	4.9
Year	29.719	30.450	29.180	58.9	71.1	66.9	75.5	55.5	65.5	100	25	53	53	53	80	55	64	.450	.442	.454	33.68	2.08	4.8	5.4	4.7	5.2

COLUMBUS, OHIO.

[ϕ=39° 58′ N.; λ=83° 01′ W.]

January	29.286	29.980	28.740	30.8	36.4	35.3	40.8	26.7	33.8	59	14	26	28	27	81	72	71	0.150	0.164	0.157	2.19	0.78	7.2	6.0	5.3	6.1
February	29.187	29.710	28.650	31.7	35.9	36.6	40.9	28.4	34.6	67	16	28	29	30	85	77	77	.156	.166	.171	1.90	.74	7.8	8.4	6.4	7.9
March	29.223	29.750	28.710	44.5	51.5	52.7	60.2	39.5	49.8	78	22	39	43	41	82	73	72	.256	.202	.308	7.66	2.38	7.4	6.8	4.0	6.5
April	29.176	29.570	28.610	50.8	60.5	59.0	64.7	45.3	55.0	82	26	44	48	46	79	66	65	.311	.353	.336	4.11	.90	5.2	5.3	5.5	4.9
May	29.159	29.450	28.860	58.7	68.0	66.4	72.1	53.7	62.9	88	38	51	57	55	84	68	68	.437	.487	.462	2.67	1.03	4.3	5.5	5.6	4.8
June	29.149	29.440	28.862	69.5	80.0	76.6	84.4	64.4	74.4	91	44	64	64	64	82	60	66	.603	.622	.604	2.06	1.39	4.8	4.9	5.1	4.5
July	29.162	29.378	28.930	73.8	85.2	81.3	88.8	68.6	78.7	96	60	66	64	63	77	50	56	.646	.606	.583	2.20	.86	2.7	3.8	3.9	2.8
August	29.215	29.430	28.900	66.1	77.3	75.4	81.5	61.9	71.7	89	53	60	60	60	80	56	60	.517	.528	.534	4.55	2.40	4.8	4.8	3.7	3.7
September	29.176	29.440	28.750	65.3	75.9	72.3	79.8	61.5	70.6	89	48	60	61	61	83	62	69	.530	.554	.554	2.05	.61	4.8	5.8	3.8	5.4
October	29.140	29.620	28.750	47.8	60.1	56.9	64.1	44.4	54.2	78	33	42	45	44	80	59	64	.271	.303	.294	1.86	.70	4.6	4.5	2.4	4.7
November	29.180	29.620	28.730	40.0	46.0	45.2	51.0	35.5	43.2	69	24	37	39	38	88	79	78	.231	.256	.246	5.59	1.70	8.0	7.5	5.5	7.2
December	29.162	29.560	28.480	32.2	35.8	35.1	40.0	27.7	33.8	61	13	28	29	28	84	75	76	.158	.167	.159	3.74	2.05	7.7	8.3	7.5	8.5
Year	29.185	29.980	28.480	50.9	59.4	57.7	64.0	46.5	55.2	96	13	46	47	47	82	66	68	.356	.374	.368	40.49	2.40	5.8	6.0	4.9	5.6

Annual meteorological summary for the year ending December 31, 1921—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.	Auroras.
	Miles.		*Mi.*																									
January	15.4	S.	60	W.	3	3	7	3	3	16	10	9	11	0	7	6	18	19	10	15	9	0	4	10	0	22	0	0
February	13.8	NW.	51	W.	3	2	10	0	4	12	9	8	11	0	1	8	19	13	9	13	9	1	2	9	0	26	0	0
March	15.3	S.	44	S.	2	7	9	1	5	20	10	5	5	0	6	3	22	18	16	6	3	1	2	0	0	11	6	0
April	13.5	S.	46	NE.	1	3	7	2	8	16	12	6	6	0	12	5	13	12	11	3	2	0	1	0	0	5	4	0
May	11.4	NE.	48	W.	1	10	13	2	6	13	4	7	7	0	12	10	9	7	5	0	0	0	1	0	0	0	5	0
June	9.9	NE.	35	NE.	0	6	19	0	5	14	8	8	0	0	11	12	7	9	8	0	0	0	0	0	0	0	8	0
July	9.3	S.	46	NW.	1	4	9	7	6	24	8	2	2	0	16	14	1	9	7	0	0	1	0	0	5	0	10	0
August	11.6	S.	42	SW.	2	5	6	8	8	23	4	7	1	0	13	10	8	9	8	0	0	0	0	0	0	0	4	0
September	11.4	S.	55	W.	2	6	5	6	7	13	16	5	2	0	8	13	9	10	8	0	0	0	0	0	0	0	7	0
October	15.1	S.	49	NW.	3	4	4	3	9	17	13	3	9	0	11	7	13	14	10	1	0	1	0	0	0	0	1	0
November	15.4	S.	54	NE.	4	2	14	1	5	16	7	6	9	0	1	2	27	15	11	4	4	6	2	1	0	4	2	0
December	14.8	S.	52	W.	3	3	6	2	4	14	14	8	11	0	1	5	25	15	12	15	11	0	0	6	0	25	0	0
Year	13.1	S.	60	W.	25	55	109	35	70	198	115	74	74	0	99	95	171	150	115	57	38	4	12	26	5	93	47	0

COLUMBIA, MO.

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

January	8.5	S.	33	SW.	0	5	2	4	5	7	2	3	2	1	7	7	17	7	5	6	2	0	0	6	0	20	1	0
February	9.0	SW.	39	SW.	0	3	3	1	4	7	4	4	2	0	11	9	8	4	4	5	0	0	0	0	0	19	0	0
March	10.4	S.	35	S.	0	2	2	5	6	7	2	1	5	1	7	11	13	15	10	1	1	0	0	0	0	5	8	0
April	9.8	S.	39	NE.	0	3	0	2	9	6	2	1	7	0	8	12	10	15	13	3	1	2	0	0	0	4	8	0
May	6.7	S.	30	NE.	0	5	2	4	9	7	0	1	3	0	15	8	8	11	7	0	0	0	0	0	2	0	9	1
June	5.7	S.	20	NE.	0	1	2	7	8	7	5	0	0	0	9	12	9	11	9	0	0	0	0	0	7	0	11	0
July	5.4	S.	30	SW.	0	3	7	3	7	6	2	3	0	0	18	10	3	5	4	0	0	0	0	19	0	0	6	0
August	5.9	S.	35	NW.	0	2	4	2	7	12	1	3	0	0	15	12	4	13	10	0	0	0	0	0	10	0	13	0
September	6.8	S.	27	NW.	0	2	4	5	4	10	4	0	1	0	11	10	9	19	19	0	0	0	0	0	1	0	15	0
October	7.5	S.	32	NW.	0	3	1	0	12	6	1	4	4	0	21	5	5	7	6	0	0	0	0	0	0	1	3	0
November	7.7	SE.	33	NW.	0	5	3	1	6	6	2	0	7	0	9	9	12	6	3	4	3	0	2	0	0	12	2	0
December	9.1	SW.	30	NW.	0	4	4	1	8	1	4	4	5	0	10	6	15	6	6	3	2	0	0	4	0	22	0	0
Year	7.7	SE.	39	SW.	0	38	34	35	85	82	29	24	36	2	141	111	113	119	96	22	9	2	2	10	39	83	76	1

COLUMBIA, S. C.

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

January	7.4	* W.	23	SW.	0	7	9	11	0	7	8	12	8	0	12	6	13	7	7	0	0	0	2	0	0	10	0	0
February	6.7	NE.	33	W.	0	8	14	5	3	4	9	10	3	0	8	11	9	12	10	1	1	0	2	0	0	3	1	0
March	7.6	S.	31	SW.	0	7	9	8	5	18	5	5	5	0	10	11	10	8	6	0	0	0	0	0	0	0	3	0
April	7.3	S.	28	SW.	0	5	11	3	4	16	3	8	10	0	13	7	10	7	6	0	0	0	0	0	0	0	4	0
May	6.1	NE.	27	SW.	0	8	16	6	3	8	4	2	13	2	6	12	13	8	7	0	0	0	0	0	4	0	4	0
June	6.0	NE.	31	NE.	0	2	14	4	7	11	11	6	4	1	10	15	5	7	5	0	0	0	0	0	16	0	9	0
July	6.1	S.	34	S.	0	1	11	12	5	17	11	3	2	0	2	15	14	16	13	0	0	1	0	0	13	0	14	0
August	5.7	NE.	26	SW.	0	5	18	6	2	14	12	1	3	1	9	15	7	11	7	0	0	0	2	0	11	0	6	0
September	4.9	S.	31	SW.	0	5	11	3	5	12	10	7	7	0	12	13	5	9	8	0	0	0	1	0	18	0	8	0
October	7.0	NE.	27	SW.	0	14	17	6	2	5	10	0	5	3	20	4	7	4	3	0	0	0	0	0	0	0	0	0
November	5.6	W.	33	W.	0	11	9	6	4	3	6	12	9	0	11	8	11	7	6	0	0	0	5	0	0	0	1	0
December	6.8	W.	34	W.	0	8	11	5	1	10	8	14	4	1	13	8	10	6	3	0	0	0	1	0	0	2	0	0
Year	6.4	NE.	34	S.	0	81	150	75	41	125	97	80	73	8	126	125	114	102	81	1	1	1	13	0	62	15	50	0

COLUMBUS, OHIO.

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

January	12.5	SW.	55	W.	1	6	5	4	9	8	11	10	9	0	10	7	14	14	8	9	5	0	0	7	0	22	0	0
February	12.1	NW.	43	SW.	2	7	4	5	4	9	7	11	9	0	3	6	19	10	9	11	5	0	2	5	0	20	0	0
March	13.1	SW.	48	SW.	1	5	5	6	12	6	14	3	11	0	6	13	12	17	15	2	1	0	1	0	0	8	11	0
April	11.8	SW.	36	NW.	0	7	1	2	14	5	16	6	9	0	13	7	10	15	14	3	2	0	0	0	0	6	6	0
May	10.0	N.	48	W.	2	16	6	6	10	6	7	3	8	0	10	14	7	12	9	0	0	1	0	0	0	0	7	1
June	8.5	SW.	45	NW.	1	5	13	7	9	6	8	4	8	0	9	17	4	10	8	0	0	0	0	0	6	0	9	0
July	8.4	SW.	35	W.	0	10	5	5	16	6	10	3	7	0	19	11	1	9	7	0	0	0	0	0	15	0	8	0
August	7.6	SW.	64	NW.	1	6	5	4	14	11	14	2	6	0	17	8	6	10	8	0	0	0	0	0	0	0	6	0
September	8.4	SW.	51	W.	2	5	3	7	8	9	16	5	7	0	8	15	7	10	9	0	0	0	0	0	0	0	7	0
October	11.0	SW.	33	NW.	0	2	2	5	13	6	17	8	9	0	13	8	10	12	7	1	0	0	0	0	0	0	2	0
November	11.7	SE.	53	N.	3	7	5	7	8	11	10	3	8	1	4	9	17	16	13	5	5	0	2	1	0	9	4	0
December	12.3	NW.	56	NW.	5	8	5	3	7	10	9	10	10	0	2	6	23	12	10	13	6	0	1	1	0	26	0	0
Year	10.6	SW.	64	NW.	18	84	59	61	124	93	139	68	101	1	114	121	130	147	117	44	24	1	6	14	21	91	60	1

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1921—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 in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.767	30.570	29.000	20.5	27.3	....	33.4	13.2	23.3	48	−6	16	19	....	80	68	....	0.100	0.111	.....	1.58	0.51	6.4	5.5	....	5.3
February	29.749	30.240	29.060	21.5	30.6	....	35.4	16.3	25.8	52	−8	18	22	....	85	69	....	.103	.119	.....	2.48	.99	6.9	7.2	....	5.6
March	29.816	30.346	29.250	35.4	45.0	....	52.4	29.8	41.1	82	12	31	32	....	82	62	....	.186	.204	.....	2.58	.89	5.3	6.3	....	5.2
April	29.759	30.300	29.280	44.4	55.1	....	60.6	38.3	49.4	83	23	39	41	....	81	62	....	.248	.270	.....	4.27	1.26	6.9	6.4	....	6.0
May	29.712	30.119	29.310	54.6	65.0	....	69.5	44.9	57.2	92	31	46	50	....	74	59	....	.324	.374	.....	2.82	1.05	5.3	5.7	....	4.7
June	29.626	29.986	29.100	64.3	73.8	....	77.7	52.0	64.8	94	39	55	57	....	73	57	....	.447	.473	.....	4.16	2.36	4.2	5.9	....	4.0
July	29.670	29.919	29.320	69.9	80.0	....	84.1	63.1	73.6	95	53	66	71	....	88	74	....	.650	.766	.....	5.26	2.44	7.0	7.4	....	6.1
August	29.750	30.046	29.230	62.2	74.3	....	78.1	53.1	65.6	92	43	56	58	....	89	57	....	.453	.484	.....	1.60	.76	3.4	4.5	....	3.2
September	29.717	30.090	29.200	59.3	71.9	....	76.1	50.5	63.3	92	36	53	56	....	81	59	....	.418	.466	.....	2.40	.68	3.9	3.5	....	3.5
October	29.647	30.130	28.900	43.8	57.5	....	61.5	37.5	49.5	76	23	40	46	....	86	66	....	.255	.318	.....	2.09	.89	4.0	4.6	....	4.4
November	29.743	30.186	29.080	33.5	37.5	....	41.0	29.7	35.4	69	20	30	32	....	87	81	....	.171	.187	.....	4.34	.89	7.5	7.9	....	8.3
December	29.645	30.450	29.000	20.7	27.8	....	31.5	15.0	23.2	51	−6	17	21	....	85	75	....	.102	.120	.....	2.64	1.27	5.5	5.9	....	5.9
Year	29.717	30.570	28.900	44.2	53.8	....	58.4	37.0	47.7	95	−8	39	42	....	82	66	....	.288	.324	.....	36.22	2.44	5.5	5.9	....	5.2

CONCORDIA, KANS.

[ϕ=39° 35′ N.; λ=97° 41′ 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	28.628	29.140	28.120	30.5	38.4	36.7	44.5	27.9	36.2	65	16	26	28	28	81	68	71	0.138	0.160	0.156	0.50	0.36	5.0	7.5	4.8	7.5
February	28.564	29.110	27.870	30.8	45.1	44.5	51.2	27.9	39.6	75	18	25	27	27	78	51	52	.132	.147	.148	.06	.06	4.5	3.6	4.0	4.4
March	28.512	29.250	27.830	39.4	52.6	53.6	59.9	35.4	47.6	87	15	32	31	30	75	48	43	.191	.185	.172	.47	.28	5.1	5.5	5.2	5.6
April	28.448	29.220	27.780	45.4	61.1	60.4	66.0	43.3	54.6	88	27	38	38	39	77	47	50	.244	.243	.253	2.79	.93	5.1	4.8	4.9	5.1
May	28.523	28.910	28.120	58.2	71.4	71.9	75.9	55.8	65.8	96	36	51	50	50	78	49	50	.392	.389	.391	2.51	1.93	6.2	6.1	5.4	5.8
June	28.473	28.800	28.180	68.6	81.8	81.5	85.5	66.1	75.8	95	57	62	62	62	81	52	53	.573	.559	.561	3.35	2.06	5.8	6.8	6.2	6.0
July	28.541	28.770	28.080	71.7	85.8	84.2	89.7	68.7	79.2	95	62	66	65	65	83	51	54	.641	.621	.612	5.24	2.27	4.9	4.8	3.6	4.7
August	28.523	28.790	28.260	69.0	86.4	83.8	90.8	67.0	78.9	104	56	61	60	61	77	42	50	.548	.522	.548	1.93	.83	4.6	3.9	4.8	4.5
September	28.460	28.780	28.020	64.0	80.5	78.7	86.3	61.4	73.8	102	43	56	55	54	76	44	45	.471	.465	.446	1.36	.72	4.1	4.1	3.6	4.0
October	28.488	28.980	27.910	48.2	67.4	64.2	72.5	46.2	59.4	91	32	37	36	36	65	34	40	.226	.217	.227	.72	.56	4.0	3.2	2.1	3.7
November	28.582	28.950	28.160	32.0	46.7	44.5	52.8	29.4	41.1	78	13	27	28	27	81	52	54	.146	.153	.150	.08	.08	4.6	5.7	3.8	5.7
December	28.635	29.050	28.020	26.9	38.4	37.3	46.0	22.6	34.3	75	0	22	23	23	82	58	58	.126	.126	.121	.01	.01	4.9	5.2	2.6	5.5
Year	28.531	29.250	27.780	48.7	63.0	61.8	68.4	46.0	57.2	104	0	42	42	42	78	50	52	.319	.316	.315	19.02	2.27	4.9	5.1	4.2	5.2

CORPUS CHRISTI, TEX.

[ϕ=27° 49′ N.; λ=97° 25′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	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	30.144	30.470	29.850	58.4	67.1	63.1	70.4	55.6	63.0	80	40	54	54	55	85	68	78	0.443	0.456	0.463	2.07	1.58	5.4	6.6	5.4	6.4
February	30.053	30.410	29.550	54.6	69.2	62.9	69.2	52.6	60.9	80	36	49	50	53	82	60	71	.374	.396	.429	.17	.10	5.8	5.6	3.9	5.3
March	29.984	30.380	29.640	66.2	72.7	70.6	75.5	65.2	70.4	81	46	63	64	64	90	75	82	.598	.614	.631	2.25	1.08	8.1	8.4	6.6	7.3
April	29.953	30.500	29.500	66.2	74.4	71.4	76.8	64.4	70.6	89	48	59	60	61	79	63	74	.533	.543	.574	.44	.14	6.3	5.7	7.0	5.7
May	29.943	30.160	29.700	73.5	79.1	76.8	81.0	71.4	76.2	86	61	68	68	68	84	70	75	.701	.689	.699	2.72	1.76	4.6	4.6	5.5	4.5
June	29.881	30.040	29.579	78.4	84.3	82.2	86.5	75.8	81.2	91	67	73	73	74	84	69	75	.810	.814	.828	5.89	2.52	5.1	4.9	3.9	4.2
July	29.968	30.135	29.730	78.6	85.8	83.2	88.3	76.8	82.6	95	73	74	73	74	85	67	74	.824	.829	.836	.75	.34	4.5	4.9	4.3	4.4
August	29.978	30.120	29.855	78.0	87.0	84.1	89.2	76.8	83.0	94	74	75	74	75	89	66	74	.853	.847	.862	.32	.28	2.3	2.4	2.5	2.2
September	29.927	30.080	29.795	79.5	86.4	83.4	88.0	78.3	83.2	90	70	74	74	75	84	68	76	.840	.854	.862	3.88	2.20	4.1	4.4	3.5	3.8
October	29.973	30.300	29.700	67.7	79.9	76.9	82.6	66.5	74.6	92	53	62	63	64	82	58	67	.579	.601	.628	.08	.06	1.5	1.7	1.0	1.3
November	30.047	30.350	29.690	63.9	74.5	71.4	76.7	61.7	69.2	89	46	58	60	63	83	62	76	.523	.548	.604	.66	.60	3.8	4.7	2.9	4.3
December	30.089	30.450	29.670	57.4	67.2	63.4	71.6	53.8	62.7	85	35	52	52	54	84	61	75	.431	.436	.463	1.26	.88	3.8	4.5	2.5	4.3
Year	29.995	30.500	29.500	68.5	77.3	74.1	79.6	66.6	73.1	95	35	63	64	65	84	66	75	.626	.635	.657	20.49	2.32	4.6	4.9	4.1	4.5

DALLAS, TEX.

[ϕ=32° 46′ N.; λ=96° 47′ 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	29.610	29.970	29.190	45.5	55.6	....	61.5	42.4	52.0	81	29	39	39	....	78	58	....	0.260	0.259	.....	3.15	1.93	5.1	5.6	....	5.4
February	29.537	29.859	28.960	43.5	56.8	....	62.8	41.3	52.0	80	30	36	36	....	78	51	....	.224	.225	.....	1.97	1.45	4.4	4.9	....	4.2
March	29.462	29.980	29.080	56.7	67.9	....	73.3	53.8	63.6	86	32	52	52	....	84	59	....	.413	.427	.....	2.75	1.31	6.8	6.3	....	6.0
April	29.435	30.080	28.900	55.0	69.0	....	73.7	52.1	62.9	82	34	48	46	....	78	47	....	.357	.343	.....	3.97	1.66	4.8	4.1	....	4.3
May	29.435	29.660	29.170	66.1	80.3	....	84.1	63.8	74.0	95	49	58	58	....	76	48	....	.495	.496	.....	2.78	1.41	4.7	4.3	....	4.8
June	29.364	29.510	29.110	72.7	83.3	....	86.9	70.6	78.8	93	65	69	70	....	88	65	....	.708	.729	.....	5.68	2.34	6.4	5.4	....	6.0
July	29.434	29.590	29.170	75.7	88.7	....	92.6	74.5	83.6	98	71	70	70	....	84	55	....	.745	.735	.....	.63	.53	3.9	4.3	....	2.7
August	29.459	29.590	29.300	76.6	93.0	....	96.5	75.5	86.0	102	70	67	65	....	74	40	....	.673	.612	.....	1.12	1.12	3.1	3.4	....	3.6
September	29.430	29.560	29.240	73.5	87.2	....	90.8	73.0	81.9	96	58	69	66	....	85	50	....	.707	.646	.....	.32	.12	5.1	4.8	....	4.5
October	29.458	29.820	29.070	56.7	75.8	....	79.8	54.9	67.4	95	42	46	45	....	70	35	....	.336	.317	.....	.34	.15	2.0	2.4	....	2.1
November	29.515	29.800	29.080	52.3	67.9	....	73.8	49.5	61.6	86	34	43	44	....	72	45	....	.315	.315	.....	1.19	*1.51	4.1	4.5	....	4.4
December	29.577	29.960	29.020	43.7	56.3	....	62.5	39.5	51.0	80	19	36	38	....	73	53	....	.227	.255	.....	.67	.25	4.0	5.0	....	5.0
Year	29.476	30.080	28.900	59.8	73.5	....	78.2	57.6	67.9	102	19	53	52	....	78	50	....	.455	.447	.....	24.57	2.34	4.5	4.6	....	4.5

* Nov. 30–Dec. 1.

Annual meteorological summary for the year ending December 31, 1921—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.	24	NW.	0	4	4	1	3	0	0	8	11	0	13	5	13	11	7	11	7	0	0	9	0	30	0	0
February	4.7	NW.	19	NW.	0	6	6	0	3	1	2	2	8	0	13	4	11	11	11	10	8	0	0	7	0	27	0	0
March	5.6	NW.	23	NW.	0	5	3	0	5	5	2	4	7	0	11	8	12	16	12	0	0	0	3	1	0	17	1	0
April	5.1	NW.	26	NW.	0	10	6	5	1	0	1	1	4	2	10	7	13	12	10	2	1	0	0	0	0	9	0	0
May	4.8	SE.	25	E.	0	7	7	3	6	2	1	4	1	0	11	15	5	6	6	0	0	1	0	0	2	1	1	0
June	4.7	W.	24	NW.	0	6	4	0	2	2	3	6	7	0	16	11	3	7	6	0	0	0	0	0	1	0	4	0
July	3.7	SE.	31	W.	0	5	8	1	9	2	5	0	1	0	8	10	13	10	8	0	0	0	0	0	11	0	8	0
August	4.3	SE.	21	N.	0	8	0	7	5	6	0	1	4	0	19	9	3	6	4	0	0	0	0	0	1	0	1	0
September	4.3	NW.	22	S.	0	5	4	5	4	2	3	2	5	0	20	4	6	10	9	0	0	0	0	0	2	0	3	0
October	4.9	W.	25	W.	0	11	2	2	1	4	2	3	6	0	13	10	8	7	6	0	0	0	1	0	0	7	0	0
November	5.3	N.	34	NW.	0	6	5	1	1	2	4	5	5	1	5	3	22	19	16	12	9	0	0	7	0	21	0	0
December	5.4	NW.	28	W.	0	4	2	2	3	4	1	4	11	0	10	5	16	11	11	11	8	0	0	16	0	29	1	0
Year	4.8	N.	34	NW.	0	77	51	27	43	30	24	40	70	3	149	91	125	126	106	46	33	1	4	40	17	141	19	0

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	8.7	S.	40	S.	1	6	3	9	6	14	7	9	8	0	4	8	19	4	3	3	3	0	0	5	0	23	0	0
February	9.1	W.	42	NW.	1	6	6	4	3	11	6	13	7	0	15	5	8	1	1	2	1	0	0	1	0	22	1	0
March	11.4	S.	44	NW.	1	13	4	3	4	23	1	7	7	0	10	11	10	5	3	1	1	0	1	0	0	12	1	0
April	12.1	S.	46	SE.	1	6	4	5	3	22	1	9	10	0	10	12	8	12	9	2	1	0	0	0	0	4	6	0
May	8.9	S.	32	S.	0	9	3	14	6	21	0	2	7	0	5	18	8	7	5	0	0	1	1	0	3	0	4	0
June	6.6	S.	30	S.	0	3	6	7	8	24	1	6	4	1	5	16	9	13	11	0	0	0	1	0	10	0	7	0
July	6.5	S.	26	S.	0	2	5	13	15	18	4	2	3	0	13	11	7	9	9	0	0	0	1	0	14	0	8	0
August	7.3	S.	38	NW.	0	5	8	8	13	19	1	3	4	1	15	12	4	9	5	0	0	0	0	0	18	0	7	0
September	9.6	S.	28	S.	0	5	3	8	10	25	4	3	2	0	14	11	5	7	4	0	0	0	0	0	12	0	6	0
October	9.7	S.	38	N.	0	11	2	1	6	22	2	6	10	2	16	9	6	5	2	0	0	0	0	0	1	1	0	0
November	7.2	N.	36	NW.	0	15	7	3	10	9	0	8	7	1	8	12	10	2	1	2	0	0	0	2	0	20	0	0
December	8.7	NW.	36	NW.	0	11	6	4	3	7	13	7	11	0	12	5	14	1	0	3	1	0	0	5	0	25	0	0
Year	8.8	S.	46	SE.	4	92	57	79	87	215	40	75	80	5	127	130	108	75	53	13	7	1	4	13	58	107	40	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	11.1	* S.	37	NE.	0	12	5	8	7	26	1	1	2	0	7	11	13	6	4	0	0	0	3	0	0	0	1	0
February	12.3	S.	38	N.	0	14	1	4	8	21	2	5	1	0	8	9	11	3	2	0	0	0	1	0	0	0	0	0
March	15.4	SE.	44	N.	2	12	3	6	28	13	0	0	0	0	2	15	14	8	5	0	0	0	3	0	0	0	3	0
April	15.3	SE.	42	S.	1	12	3	9	25	8	1	1	0	1	9	9	12	7	6	0	0	0	0	0	0	0	2	0
May	12.3	SE.	40	NE.	1	6	1	15	28	9	3	0	0	0	14	9	8	7	5	0	0	0	0	0	0	0	3	0
June	12.6	S.	66	NE.	2	6	1	2	23	22	2	2	0	1	12	12	6	11	9	0	0	0	0	0	1	0	3	0
July	11.9	SE.	40	N.	1	3	0	2	29	23	1	4	0	0	14	11	6	5	5	0	0	0	0	0	6	0	6	0
August	12.2	SE.	31	SE.	0	2	0	3	26	23	1	5	2	0	26	5	0	2	2	0	0	0	0	0	7	0	2	0
September	12.1	SE.	34	S.	0	1	1	5	27	24	2	0	0	0	19	8	3	7	5	0	0	0	0	0	5	0	6	0
October	9.9	N.	40	N.	1	17	8	14	10	6	2	5	0	0	28	3	0	3	1	0	0	0	0	0	1	0	3	0
November	10.9	S.	58	NE.	3	13	5	3	12	18	0	4	5	0	14	10	6	3	3	0	0	0	1	0	0	0	1	0
December	10.6	S.	39	S.	0	12	5	9	9	18	0	6	3	0	16	10	5	3	3	0	0	0	3	0	0	0	0	0
Year	12.2	SE.	66	NE.	11	110	33	80	232	212	15	33	13	2	169	112	84	65	50	0	0	0	11	0	20	0	30	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	9.3	SE.	30	S.	0	4	0	2	9	3	2	7	3	1	9	12	10	6	4	1	1	0	1	0	0	6	1	0
February	9.4	NW.	26	S.	0	2	1	4	4	4	0	6	7	0	13	8	7	4	3	2	0	0	0	0	0	4	3	0
March	11.2	S.	42	S.	1	3	0	3	9	11	1	1	3	0	6	14	11	7	6	0	0	1	3	0	0	1	5	0
April	11.2	SE.	41	NW.	2	1	2	5	7	5	0	5	4	1	13	12	5	9	8	0	0	3	1	0	0	0	9	0
May	8.7	SE.	40	NE.	1	2	2	6	10	9	0	1	1	0	12	13	6	5	5	0	0	1	0	0	6	0	8	0
June	8.5	S.	31	SE.	0	0	1	4	8	12	1	0	4	0	4	18	8	16	12	0	0	0	0	0	7	0	13	0
July	8.5	S.	27	NE.	0	2	1	2	7	16	1	2	0	0	14	15	2	4	2	0	0	0	0	0	25	0	3	0
August	8.0	S.	33	S.	0	0	0	4	13	14	0	0	0	0	17	9	5	1	1	0	0	0	0	0	29	0	5	0
September	9.3	S.	28	S.	0	2	0	2	10	15	0	1	0	0	14	10	6	5	3	0	0	0	0	0	23	0	2	0
October	8.6	SE.	29	W.	0	2	0	8	9	1	2	4	4	1	24	5	2	3	3	0	0	2	0	0	3	0	3	0
November	8.9	S.	44	S.	1	1	0	5	7	6	1	4	5	1	16	6	8	3	2	0	0	0	1	0	0	0	2	0
December	8.6	NW.	30	NW.	0	1	2	5	4	2	1	5	9	2	9	14	8	4	2	0	0	0	1	0	0	4	2	0
Year	9.2	S.	44	S.	5	20	9	50	97	98	9	36	40	6	151	136	78	67	51	3	1	7	7	0	93	15	56	0

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1921—Continued.

DAVENPORT, IOWA.

[ϕ=41° 30′ N.; λ=90° 38′ 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. 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	29.475	30.170	28.890	27.6	33.7	32.7	38.0	24.5	31.2	57	2	24	24	25	84	66	71	0.136	0.137	0.140	0.47	0.19	5.2	5.2	5.8	5.6
February	29.382	29.930	28.840	28.6	34.7	35.8	40.8	24.8	32.8	73	12	24	26	28	83	68	73	.132	.145	.159	.31	.13	6.2	6.1	4.8	6.3
March	29.354	30.040	28.820	38.9	49.1	48.2	55.6	34.0	44.8	78	15	34	37	38	81	65	68	.211	.248	.252	4.23	1.20	5.9	6.4	5.2	6.5
April	29.295	29.900	28.770	47.7	59.0	57.2	63.3	44.3	53.8	81	25	40	40	42	76	53	59	.271	.269	.282	4.77	1.90	4.5	5.5	5.5	5.4
May	29.363	29.700	29.040	59.6	71.7	70.6	75.7	55.4	65.6	92	37	50	52	52	71	51	54	.392	.424	.423	2.69	1.22	4.7	6.3	6.3	5.7
June	29.306	29.730	29.095	70.6	82.9	79.7	86.6	66.9	76.8	95	46	63	65	66	78	56	64	.606	.637	.649	3.64	.90	5.5	5.8	6.4	5.8
July	29.344	29.560	29.080	75.1	86.3	86.1	90.9	70.9	80.9	101	61	66	65	65	73	50	51	.634	.621	.628	2.21	.80	3.6	4.4	2.8	3.8
August	29.369	29.688	29.060	67.5	78.1	76.8	82.1	64.7	73.4	93	55	62	64	66	84	64	69	.577	.617	.644	6.62	4.17	4.5	4.9	4.5	5.1
September	29.310	29.620	28.970	62.9	74.5	71.4	78.9	59.7	69.3	89	45	58	57	60	85	57	70	.505	.494	.544	7.92	2.51	5.5	5.7	5.1	5.5
October	29.296	29.730	28.880	48.2	61.0	57.9	64.8	46.3	55.6	79	32	42	42	45	79	50	63	.271	.276	.307	2.38	1.04	4.4	4.2	3.6	4.7
November	29.398	29.810	29.010	33.6	39.9	38.5	43.1	30.6	36.8	64	13	30	31	32	88	71	77	.173	.175	.180	.77	.27	6.7	7.8	7.3	7.6
December	29.402	29.910	28.670	27.3	32.3	32.0	37.6	23.3	30.4	54	5	23	23	25	82	68	76	.130	.133	.145	3.72	1.72	6.5	6.9	5.3	6.5
Year	29.358	30.170	28.670	49.0	58.6	57.2	63.1	45.4	54.3	101	2	43	44	45	80	60	66	.336	.348	.363	39.73	4.17	5.3	5.8	5.2	5.7

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	29.164	29.870	28.660	31.1	36.8	35.6	41.2	28.2	34.7	58	13	26	27	28	80	69	73	0.147	0.158	0.163	2.59	1.00	6.9	5.9	5.7	6.2
February	29.064	29.580	28.570	32.7	37.4	36.8	42.5	29.2	35.8	68	16	27	29	29	80	72	74	.152	.167	.166	2.25	.79	7.9	7.1	7.2	7.5
March	29.091	29.610	28.590	44.9	52.8	53.3	60.5	40.2	50.4	79	22	39	40	42	80	65	66	.254	.275	.284	7.41	1.91	7.2	7.0	4.2	6.4
April	29.047	29.454	28.474	51.6	60.3	58.6	65.2	46.0	55.6	81	28	45	46	45	79	62	62	.314	.327	.313	3.42	.95	4.4	5.0	5.0	4.7
May	29.038	28.328	28.710	60.4	69.6	67.0	73.4	54.6	64.0	89	39	52	52	53	76	57	61	.413	.423	.419	2.26	.76	3.4	4.2	4.2	3.9
June	29.025	29.320	28.760	71.5	81.1	77.7	85.6	65.2	75.4	94	44	62	60	61	72	51	58	.571	.540	.544	1.13	.27	3.9	3.9	4.8	3.9
July	29.043	29.251	28.840	74.9	86.4	82.2	90.5	69.4	80.0	99	61	65	61	62	73	45	52	.629	.555	.560	1.34	.47	2.6	2.9	3.8	3.1
August	29.094	29.300	28.810	67.8	79.0	76.0	82.3	62.7	72.5	89	53	61	58	60	79	51	59	.546	.507	.531	3.30	1.92	3.5	4.2	3.2	3.9
September	29.054	29.298	28.670	66.1	75.7	72.2	79.8	62.5	71.2	88	46	62	61	62	87	63	70	.566	.558	.566	4.75	1.62	5.2	5.4	3.4	5.1
October	29.021	29.500	28.620	48.6	60.7	56.0	63.8	44.7	54.2	77	33	43	43	43	81	54	64	.280	.287	.287	1.79	.70	4.4	4.5	2.8	4.4
November	29.059	29.510	28.600	40.5	46.6	45.1	52.0	36.3	44.2	68	22	37	37	38	86	71	77	.236	.235	.244	4.88	1.60	6.9	7.2	5.1	6.4
December	29.059	29.480	28.380	33.0	36.6	35.1	40.7	29.0	34.8	62	17	28	28	28	82	72	76	.161	.162	.157	3.48	2.29	7.8	7.1	7.7	7.5
Year	29.063	29.870	28.380	51.9	60.2	58.0	64.8	47.3	56.1	99	13	46	45	46	80	61	66	.356	.350	.353	38.60	2.29	5.3	5.4	4.8	5.2

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	29.139	29.490	28.900	46.8	61.8	....	68.7	44.3	56.5	83	27	40	40	....	77	50	....	0.277	0.283	.....	0.18	0.16	5.1	5.1	....	5.3
February	29.065	29.500	28.550	47.1	63.4	....	70.6	44.5	57.6	85	31	39	40	....	74	46	....	.257	.262	.....	5.78	5.62	4.7	3.5	....	4.0
March	28.992	29.570	28.560	59.4	70.2	....	76.9	56.8	66.8	87	43	54	54	....	84	59	....	.451	.444	.....	1.92	.74	7.6	5.3	....	5.1
April	28.976	29.660	28.380	58.5	74.8	....	80.7	56.5	68.6	98	41	47	43	....	68	36	....	.357	.306	.....	1.31	1.05	5.0	2.8	....	3.5
May	28.941	29.140	28.680	67.1	79.6	....	85.2	66.2	75.7	95	55	62	61	....	85	56	....	.570	.548	.....	1.05	.85	7.7	5.7	....	5.8
June	28.982	29.020	28.680	73.2	85.9	....	91.5	71.9	81.7	100	64	68	65	....	84	51	....	.679	.619	.....	3.25	1.96	5.0	4.0	....	3.9
July	28.970	29.090	28.760	75.1	89.4	....	94.7	74.2	84.4	98	69	68	64	....	79	44	....	.684	.605	.....	1.73	.68	3.8	3.3	....	3.3
August	28.996	29.140	28.780	75.2	90.7	....	95.6	74.8	85.2	99	68	66	63	....	74	40	....	.642	.580	.....	.49	.42	1.1	1.2	....	1.2
September	28.935	29.110	28.740	75.0	87.8	....	92.7	74.8	83.8	96	66	69	65	....	82	48	....	.710	.625	.....	.12	.11	4.6	3.3	....	3.8
October	29.015	29.360	28.700	60.5	78.7	....	84.0	59.5	71.8	94	43	51	50	....	72	39	....	.405	.384	.....	.13	.12	2.4	0.8	....	1.4
November	29.071	29.370	28.670	53.5	70.6	....	75.3	50.7	63.0	90	40	45	47	....	75	48	....	.334	.361	.....	.36	.26	4.0	3.9	....	4.0
December	29.121	29.540	28.600	47.9	63.4	....	69.6	44.8	57.2	86	30	38	37	....	70	44	....	.257	.259	.....	T.	T.	4.2	4.3	....	4.2
Year	29.017	29.650	28.380	61.6	76.4	....	82.1	59.9	71.0	100	27	54	52	....	77	47	....	.469	.440	.....	16.32	5.62	4.6	3.6	....	3.8

DENVER, COLO.

[ϕ=35° 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	24.705	25.030	24.340	29.7	38.5	37.1	43.8	23.7	33.8	63	9	16	20	21	60	50	56	0.088	0.108	0.107	0.77	0.51	2.6	5.8	3.7	4.5
February	24.694	25.050	24.160	30.2	43.7	41.6	48.2	25.8	37.0	70	6	18	19	22	61	39	55	.096	.101	.115	.27	.14	1.9	4.2	4.8	3.6
March	24.642	25.080	24.180	34.8	52.7	53.1	57.9	32.0	45.0	77	16	23	21	24	63	32	49	.122	.113	.127	.48	.20	3.0	5.4	5.6	4.8
April	24.623	25.150	24.095	37.8	50.4	51.4	55.8	34.7	45.2	77	20	26	25	25	64	44	54	.140	.132	.135	2.31	1.70	4.5	4.9	6.2	5.1
May	24.668	25.000	24.300	48.3	63.0	65.1	68.8	46.3	57.6	83	33	38	38	39	70	43	56	.239	.240	.251	.60	.36	4.9	6.3	6.1	5.7
June	24.745	24.960	24.400	58.6	73.8	73.7	78.3	56.2	67.2	93	47	46	44	45	66	41	53	.319	.304	.312	3.26	2.16	3.1	3.8	6.3	4.3
July	24.825	25.060	24.270	63.2	79.7	78.5	84.2	60.7	72.4	97	49	50	47	49	63	36	51	.364	.338	.357	1.27	.51	2.6	2.6	5.5	3.7
August	24.850	25.030	24.633	61.6	78.2	75.6	82.8	59.5	71.2	92	51	50	47	50	68	35	55	.369	.324	.360	3.49	3.00	3.1	3.4	7.1	4.6
September	24.729	24.960	24.430	51.2	72.8	73.2	78.6	49.2	63.9	91	37	38	34	37	62	28	46	.237	.205	.232	.02	.02	1.0	2.0	3.6	2.3
October	24.780	25.077	24.230	46.5	65.7	63.0	69.5	42.4	56.0	81	32	26	28	30	50	26	40	.152	.153	.164	.66	.35	2.7	2.8	2.6	2.9
November	24.719	25.041	24.360	35.4	51.6	48.9	56.3	31.1	43.7	72	13	21	22	22	58	36	48	.112	.116	.119	.57	.46	2.1	4.6	4.3	4.0
December	24.746	25.060	24.210	29.9	41.5	37.0	47.2	23.7	35.4	72	1	18	21	22	64	43	58	.099	.113	.116	.85	.52	3.7	3.7	3.5	3.7
Year	24.727	25.150	24.095	43.9	59.3	58.2	64.3	40.4	52.4	97	1	31	30	32	62	38	42	.195	.187	.200	14.55	3.00	2.9	4.1	4.9	4.1

Annual meteorological summary for the year ending December 31, 1921—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	7.7	W.	30	E.	0	3	7	8	1	11	8	11	13	0	9	9	13	8	4	8	5	0	1	8	0	24	0	0
February	8.2	W.	31	SW.	0	2	10	9	1	8	6	11	9	0	7	8	13	5	2	9	2	0	1	5	0	24	0	0
March	9.6	NW.	32	SW.	0	3	2	12	3	18	5	5	14	0	9	5	17	10	9	2	0	0	3	1	0	12	5	0
April	9.8	S.	39	NE.	0	5	5	5	3	8	12	13	8	1	10	7	13	16	13	3	2	1	0	1	0	5	8	0
May	7.3	E.	36	W.	0	5	8	18	1	9	13	5	3	0	11	8	12	7	6	0	0	1	0	0	4	0	7	3
June	5.7	E.	26	SW.	0	3	3	18	2	9	12	4	7	2	8	11	11	12	12	0	0	0	0	0	12	0	13	0
July	5.4	SW.	27	SW.	0	6	7	8	1	7	21	6	5	1	17	10	4	5	4	0	0	1	1	0	20	0	3	0
August	6.6	E.	30	E.	0	3	12	16	0	9	13	3	5	1	12	10	9	10	8	0	0	0	1	0	4	0	8	0
September	6.2	SW.	36	NW.	0	2	7	13	0	12	11	3	9	3	10	6	14	15	13	0	0	1	0	0	0	0	12	1
October	7.9	SW.	29	NE.	0	2	4	12	1	11	9	13	10	0	12	9	10	10	8	1	0	0	0	0	0	0	2	0
November	7.1	E.	25	E.	0	6	9	14	1	1	9	6	12	2	4	5	21	8	5	7	6	0	6	3	0	15	0	0
December	8.3	NW.	31	W.	0	5	6	8	0	6	10	9	18	0	6	11	14	7	5	6	3	0	0	11	0	25	0	0
Year	7.5	E.	39	NE.	0	45	80	141	14	109	129	89	113	10	115	99	151	113	89	36	18	4	13	29	40	105	58	4

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	11.9	SW.	37	NW.	0	7	6	3	4	7	17	8	9	1	11	6	14	9	9	8	4	0	1	7	0	20	0	0
February	11.4	SW.	39	W.	0	4	7	5	5	4	13	8	10	0	4	5	19	9	8	10	2	0	0	3	0	18	1	0
March	12.6	SW.	42	SW.	2	7	5	3	4	9	19	4	10	1	4	17	10	16	14	2	1	0	2	0	0	7	8	0
April	11.3	SW.	48	SE.	2	4	2	0	4	14	17	7	12	0	12	8	10	12	10	3	1	0	0	0	0	4	4	0
May	9.6	NE.	39	NE.	0	12	13	2	6	7	8	7	7	0	16	10	5	11	9	0	0	1	0	0	0	0	9	1
June	8.6	SW.	48	NW.	1	5	15	4	7	4	17	3	4	1	14	14	2	13	8	0	0	0	0	0	7	0	11	0
July	7.9	SW.	48	NE.	2	8	13	3	8	4	15	2	7	2	18	13	0	8	8	0	0	0	1	0	16	0	8	0
August	7.6	SW.	35	NW.	0	4	11	6	6	8	15	6	5	1	16	10	5	9	8	0	0	0	0	0	0	0	5	0
September	8.1	SW.	54	SW.	2	3	8	2	6	7	22	3	6	3	9	17	4	14	12	0	0	0	1	0	0	0	12	0
October	10.6	SW.	35	NE.	0	3	3	2	4	6	24	7	10	3	16	6	9	10	7	1	0	0	2	0	0	0	0	0
November	12.0	SW.	48	S.	4	6	7	4	8	5	17	5	8	0	7	7	16	12	10	3	2	1	1	0	0	5	6	0
December	12.4	SW.	50	SW.	3	7	12	1	3	8	15	7	9	0	5	8	18	11	9	10	4	0	1	1	0	21	1	0
Year	10.3	SW.	54	SW.	16	70	102	35	65	83	199	67	97	12	132	121	112	134	112	37	14	2	9	11	23	75	65	1

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	9.1	SE.	32	NW.	0	2	0	4	8	3	0	2	12	0	13	8	10	3	1	0	0	0	1	0	0	3	0	0
February	10.0	SE.	48	E.	1	4	0	11	4	0	0	2	7	0	16	5	7	4	4	0	0	1	1	0	0	1	2	0
March	10.2	SE.	44	N.	1	3	0	8	12	3	0	0	5	0	9	13	9	7	5	0	0	1	1	0	0	0	4	0
April	11.1	SE.	50	NE.	1	4	1	8	11	0	0	1	5	0	19	4	7	4	3	0	0	1	0	0	3	0	2	0
May	11.3	SE.	34	NE.	0	1	3	11	15	1	0	0	0	0	8	11	12	3	3	0	0	0	0	0	8	0	3	0
June	11.4	SE.	37	SW.	0	1	1	10	14	1	0	1	2	0	15	11	4	7	5	0	0	0	0	0	22	0	5	0
July	10.8	SE.	34	E.	0	2	1	11	16	0	0	0	1	0	20	9	2	6	6	0	0	0	0	0	30	0	4	0
August	10.5	SE.	48	SE.	1	0	0	19	11	0	0	0	0	1	26	5	0	2	2	0	0	0	0	0	31	0	2	0
September	11.4	SE.	26	NE.	0	1	0	12	17	0	0	0	0	0	14	14	2	3	1	0	0	0	0	0	28	0	1	0
October	8.9	SE.	35	NW.	0	2	1	18	4	0	0	1	4	1	26	3	2	2	1	0	0	0	0	0	3	0	0	0
November	6.6	SE.	31	N.	0	0	3	8	7	0	1	1	10	0	15	8	7	3	2	0	0	0	2	0	1	0	2	0
December	8.5	SE.	40	N.	1	5	4	5	6	0	0	1	10	0	17	7	7	0	0	0	0	0	1	0	0	3	0	0
Year	10.0	SE.	50	NE.	5	25	14	125	125	8	1	9	56	2	198	98	69	44	33	0	0	3	6	0	126	7	25	0

DENVER, COLO.

[H_b=5,291 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	7.8	S.	44	W.	2	12	4	1	8	15	6	11	5	0	12	13	6	5	4	6	5	0	0	6	0	25	0	0
February	8.7	S.	46	W.	1	8	7	3	7	13	5	7	6	0	14	12	2	4	2	7	4	0	0	5	0	19	0	0
March	8.4	S.	46	NE.	1	4	7	5	9	13	8	9	7	0	10	16	5	4	4	6	4	0	1	2	0	16	0	0
April	9.1	S.	48	N.	1	5	8	4	5	11	5	11	11	0	10	12	8	8	6	11	6	1	0	1	0	13	3	0
May	7.8	N.	42	SE.	1	14	5	3	6	7	12	3	12	0	5	17	9	7	3	0	0	3	0	0	0	0	8	0
June	7.0	S.	34	SE.	0	6	6	2	9	19	10	3	4	1	14	11	5	10	8	0	0	0	0	0	4	0	13	0
July	7.3	S.	42	NW.	1	4	2	3	11	19	10	3	10	0	17	10	4	6	4	0	0	0	0	0	4	0	7	0
August	6.5	S.	34	NW.	0	9	2	1	4	19	9	7	11	0	11	14	6	9	4	0	0	0	0	0	2	0	10	0
September	7.3	S.	44	NW.	2	5	9	4	6	20	5	3	8	0	22	7	1	1	0	0	0	0	0	0	1	0	3	0
October	7.7	S.	40	N.	1	8	6	3	6	22	0	10	7	0	18	9	4	3	3	2	1	0	0	0	0	0	0	0
November	7.1	S.	32	NW.	0	13	3	7	5	17	3	6	6	0	17	8	5	3	3	4	3	0	1	1	0	16	0	0
December	7.7	S.	46	N.	1	13	5	4	5	18	6	4	7	0	17	10	4	4	2	8	4	0	1	6	0	24	0	0
Year	7.7	S.	48	N.	11	101	64	40	81	193	79	77	94	1	167	139	59	64	43	44	27	4	3	21	11	113	44	0

Annual meteorological summary for the year ending December 31, 1921—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.	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	29.187	29.870	28.590	27.0	32.9	32.3	37.8	22.9	30.4	55	2	22	25	25	80	72	74	0.125	0.138	0.142	0.59	0.34	5.2	6.9	4.8	6.5
February	29.104	29.730	28.460	26.8	36.2	36.9	42.6	23.9	33.2	75	12	22	25	27	80	65	66	.120	.141	.150	.92	.48	5.8	6.5	3.4	6.1
March	29.068	29.784	28.520	38.2	48.2	47.8	54.5	34.0	44.2	80	13	31	34	34	74	60	61	.186	.214	.210	1.07	.64	6.9	6.2	4.7	6.0
April	29.003	29.680	28.370	46.1	58.3	58.0	63.0	42.6	52.8	84	24	38	39	40	73	52	56	.246	.254	.268	3.72	1.66	5.6	6.1	5.2	5.8
May	29.085	29.410	28.670	59.0	71.8	70.2	75.3	55.6	65.4	93	36	50	50	51	73	49	53	.391	.397	.398	3.62	1.19	5.1	6.5	5.4	5.8
June	29.024	29.470	28.810	70.2	81.3	80.8	85.6	67.0	76.3	96	50	63	64	64	79	57	59	.592	.604	.616	4.66	1.44	6.8	5.9	5.5	6.0
July	29.076	29.310	28.690	72.7	85.0	84.8	89.3	69.9	79.6	96	59	66	65	65	79	53	54	.632	.621	.633	2.49	1.08	4.1	4.3	3.4	3.7
August	29.083	29.420	28.770	66.2	78.8	78.0	83.0	63.5	73.2	99	56	61	62	64	82	58	63	.540	.574	.608	6.63	2.58	4.7	4.7	4.3	4.2
September	29.013	29.380	28.590	61.5	74.4	72.3	79.9	58.8	69.4	90	43	55	57	59	80	58	64	.454	.501	.522	7.16	2.09	5.1	4.8	3.5	4.8
October	29.020	29.380	28.610	47.8	63.2	59.5	67.4	45.6	56.5	85	32	40	41	41	74	46	52	.251	.266	.265	1.51	1.03	3.8	4.6	3.3	4.2
November	29.136	29.550	28.750	31.1	39.8	38.0	43.4	28.2	35.8	64	14	27	27	28	84	62	69	.151	.152	.159	.35	.15	6.1	6.6	5.2	6.6
December	29.155	29.670	28.480	25.3	34.5	32.8	39.5	20.5	30.0	64	−5	20	23	22	79	64	65	.116	.135	.124	.80	.66	5.8	5.6	2.9	5.3
Year	29.080	29.870	28.370	47.7	58.7	57.6	63.4	44.4	53.9	99	−5	41	43	43	78	58	61	.317	.333	.341	33.52	2.58	5.4	5.7	4.3	5.4

DETROIT, MICH.

[ϕ=42° 20′ N.; λ=83° 03′ W.]

January	29.328	30.100	28.710	27.7	32.1	31.2	36.3	24.6	30.4	50	9	23	23	24	82	68	78	0.131	0.132	0.138	0.28	0.12	5.8	6.0	4.5	5.9
February	29.245	29.760	28.840	27.9	32.3	31.2	36.2	24.5	30.4	60	16	24	24	25	81	72	80	.129	.134	.137	1.54	.72	6.5	7.5	6.8	7.2
March	29.262	29.910	28.641	38.6	45.0	43.6	51.8	33.2	42.5	76	16	33	37	36	80	73	78	.205	.237	.238	3.36	.77	7.6	7.8	6.7	7.4
April	29.218	29.606	28.600	48.6	57.4	54.8	62.5	43.9	53.2	83	25	40	46	45	74	69	73	.270	.340	.326	3.18	.71	5.3	6.2	5.6	5.4
May	29.244	29.519	28.990	57.9	67.2	62.7	71.1	52.2	61.6	88	35	51	57	54	78	71	77	.398	.492	.445	1.85	1.14	4.7	5.4	4.6	4.6
June	29.230	29.630	28.940	67.7	76.8	73.0	80.9	61.9	71.4	95	41	61	66	62	80	70	74	.562	.657	.570	3.94	1.16	4.3	5.6	5.6	4.7
July	29.232	29.420	28.949	74.9	84.1	80.2	87.6	70.5	79.0	96	61	64	63	63	70	50	64	.605	.580	.592	2.49	.69	2.5	3.4	3.9	3.2
August	29.283	29.548	28.860	66.2	74.5	72.4	78.3	62.7	70.5	87	55	58	58	59	76	57	70	.498	.490	.508	3.43	1.08	5.0	5.1	4.6	4.9
September	29.213	29.550	28.640	64.8	73.6	70.5	77.2	61.8	69.5	89	49	59	58	59	82	61	75	.517	.512	.514	4.64	1.41	3.5	4.8	4.1	4.7
October	29.174	29.640	28.750	47.4	57.1	54.0	60.2	44.7	52.4	74	33	42	43	43	82	61	75	.270	.282	.289	2.12	1.29	4.9	4.5	3.8	4.8
November	29.249	29.720	28.870	36.8	40.0	39.5	44.0	33.8	38.9	62	27	33	33	33	85	76	82	.192	.193	.198	2.59	.81	7.6	8.3	8.4	8.1
December	29.209	29.690	28.430	29.7	32.3	31.6	36.3	25.0	30.6	55	11	25	25	26	81	74	79	.138	.143	.144	2.04	.61	8.3	8.6	7.4	7.9
Year	29.241	30.100	28.430	49.0	56.0	53.7	60.2	44.9	52.5	96	9	43	44	44	80	67	75	.326	.349	.342	31.46	1.41	5.5	6.1	5.5	5.7

DEVILS LAKE, N. DAK.

[ϕ=48° 07′ N.; λ=98° 52′ W.]

January	28.415	29.110	27.640	6.4	15.4	13.3	20.2	0.8	10.5	39	−22	4	12	11	90	84	90	0.056	0.077	0.074	0.13	0.05	3.9	5.3	6.0	5.4
February	28.346	29.100	27.550	11.3	19.2	18.4	24.4	6.5	15.4	42	−20	9	15	16	89	83	88	.074	.093	.095	.46	.23	7.0	6.6	6.4	6.3
March	28.374	29.070	27.810	15.3	25.0	24.6	31.5	10.5	21.0	56	−10	13	18	19	86	74	81	.085	.106	.112	.71	.24	6.8	6.9	7.0	6.9
April	28.329	28.990	27.770	31.3	44.9	44.2	49.6	28.7	39.2	71	15	26	29	32	79	58	66	.141	.167	.184	2.17	.63	4.9	4.7	4.8	4.7
May	28.434	28.920	27.800	47.3	62.3	61.0	66.8	41.5	54.2	86	21	39	38	39	72	43	46	.251	.246	.258	1.03	.66	2.8	3.9	4.3	3.9
June	28.330	28.900	27.930	62.1	72.2	72.8	76.9	56.9	66.9	96	35	56	57	59	83	62	64	.474	.491	.520	4.70	2.43	5.5	5.3	4.1	4.9
July	28.376	28.650	27.770	63.5	76.8	76.4	81.4	58.7	70.0	97	51	57	58	60	81	54	58	.470	.488	.524	4.49	1.10	3.7	4.4	3.4	4.1
August	28.404	28.770	28.000	56.7	74.3	72.3	78.7	52.3	65.5	93	41	51	52	53	83	47	53	.388	.394	.413	5.63	4.53	3.5	3.9	3.5	3.7
September	28.279	28.740	27.740	49.5	62.7	58.4	66.6	46.6	56.6	87	36	44	46	47	83	57	67	.298	.318	.331	3.58	1.31	5.7	6.4	4.9	6.0
October	28.349	28.850	27.700	37.7	53.3	48.5	57.4	35.4	46.4	79	24	33	36	35	84	55	62	.190	.215	.206	1.31	.57	3.8	4.2	4.0	4.4
November	28.458	28.970	27.690	15.1	22.3	20.7	25.5	11.6	18.6	60	−17	12	15	17	87	73	84	.082	.092	.102	.42	.19	7.7	6.5	6.8	7.3
December	28.442	28.990	27.750	12.1	18.5	15.9	23.4	7.1	15.2	41	−24	9	14	13	87	79	86	.078	.092	.089	.75	.30	4.2	5.6	3.5	5.2
Year	28.378	29.110	27.550	34.0	45.6	43.9	50.2	29.7	40.0	97	−24	29	32	33	84	64	70	.216	.232	.242	25.39	4.53	5.0	5.3	4.8	5.2

DODGE CITY, KANS.

[ϕ=37° 45′ N.; λ=100° 00′ W.]

January	27.479	27.880	27.090	28.9	42.8	38.3	47.6	25.2	36.4	71	12	23	26	26	79	52	64	0.126	0.142	0.148	0.24	0.17	6.1	5.8	6.0	5.8
February	27.440	27.890	26.880	28.3	47.4	43.4	51.6	25.8	38.7	75	14	24	26	26	83	50	56	.125	.141	.142	.69	.40	3.1	3.8	3.1	3.4
March	27.378	28.018	26.715	38.3	56.4	55.4	63.6	34.6	49.1	86	15	31	32	31	76	42	44	.186	.186	.181	.01	.01	3.7	3.4	4.0	3.4
April	27.322	28.070	26.650	42.7	61.5	60.6	66.8	40.7	53.8	90	23	34	34	35	74	41	42	.205	.208	.212	2.73	1.05	3.6	2.8	4.5	3.5
May	27.392	27.720	27.020	55.5	72.5	70.7	76.6	52.9	64.8	92	37	49	49	48	80	46	48	.362	.366	.351	1.36	.46	5.0	4.8	3.6	4.5
June	27.376	27.580	27.070	65.2	79.4	77.5	82.8	62.7	72.8	94	57	61	60	62	87	55	61	.538	.528	.554	4.48	1.48	5.7	4.7	4.2	4.8
July	27.437	27.630	26.993	69.4	85.4	84.0	89.3	67.5	78.4	98	63	64	63	62	82	48	51	.602	.574	.567	2.91	1.43	4.2	3.3	4.4	3.8
August	27.440	27.650	27.230	67.2	86.1	84.2	90.2	65.5	77.8	100	54	60	61	60	79	46	47	.522	.543	.524	2.65	.77	3.9	2.8	2.6	2.9
September	27.363	27.660	27.032	62.2	81.7	78.4	86.2	59.2	73.0	96	39	56	55	54	81	43	46	.467	.464	.449	1.53	1.03	2.8	1.4	2.4	2.0
October	27.398	27.850	26.730	46.6	70.8	64.2	75.2	43.9	59.6	92	34	34	37	38	63	31	39	.202	.224	.234	.23	.18	3.0	1.6	1.7	1.7
November	27.443	27.780	27.060	31.1	53.2	46.9	58.9	28.2	43.6	80	9	24	26	25	74	38	44	.129	.141	.132	T.	T.	3.1	2.3	2.4	2.5
December	27.494	27.830	26.970	25.1	41.3	34.3	45.4	21.4	23.4	75	1	21	24	25	84	55	70	.114	.130	.124	.63	.63	4.2	4.7	2.6	4.3
Year	27.414	28.070	26.650	46.7	64.9	61.5	69.5	44.0	56.8	100	1	40	41	41	78	46	51	.298	.304	.302	17.51	1.48	4.1	3.5	3.6	3.6

Annual meteorological summary for the year ending December 31, 1921—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 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	7.6	SW.	29	SW.	0	9	4	5	8	4	12	11	9	0	6	9	16	5	3	6	3	0	4	10	0	24	0	1
February	7.7	SW.	35	SW.	0	10	5	3	6	4	13	4	10	1	10	4	14	9	5	10	6	0	1	4	0	25	0	0
March	9.7	SW.	42	SW.	2	9	6	4	5	7	15	5	11	0	9	8	14	7	5	2	1	0	2	0	0	11	4	0
April	9.9	S.	40	SW.	1	4	6	2	7	12	14	6	9	0	10	8	12	11	7	4	1	1	0	0	0	7	4	0
May	7.9	SW.	34	SW.	0	12	5	4	12	9	11	2	7	0	7	13	11	8	7	0	0	0	0	0	4	0	5	3
June	5.2	SW.	30	N.	0	3	4	7	11	9	12	6	7	1	9	9	12	9	8	0	0	1	0	0	10	0	10	0
July	5.4	SW.	28	SW.	0	6	4	1	6	21	17	3	4	0	18	9	4	8	8	0	0	0	0	0	17	0	6	0
August	6.5	SE.	24	N.	0	10	8	7	13	10	5	4	5	0	17	8	6	9	8	0	0	0	0	0	4	0	7	0
September	7.1	SW.	36	SW.	0	6	3	7	13	10	12	5	4	0	11	9	10	12	10	0	0	1	0	0	1	0	13	0
October	7.9	SW.	30	NW.	0	3	5	8	3	5	16	7	14	1	13	13	5	8	5	0	0	0	0	0	0	0	5	0
November	6.7	N.	20	SW.	0	14	8	4	8	6	8	3	9	0	8	6	16	6	4	6	2	0	4	5	0	19	0	0
December	8.4	N.	28	NW.	0	17	2	4	5	2	11	9	12	0	12	8	11	6	3	6	5	0	0	12	0	25	0	0
Year	7.5	SW.	42	SW.	3	103	60	50	97	99	146	65	101	3	130	104	131	98	73	34	18	3	11	31	36	111	54	4

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 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	13.1	SW.	48	SW.	2	4	6	4	5	5	15	15	8	0	10	6	15	8	4	11	3	0	2	9	0	24	0	0
February	12.0	W.	50	SW.	1	3	11	6	4	5	8	12	7	0	5	6	17	11	8	14	8	0	0	8	0	25	0	0
March	11.8	SW.	47	SW.	3	8	6	7	10	6	11	6	8	0	4	8	19	19	15	5	1	2	1	1	0	16	8	0
April	12.1	SW.	46	SW.	2	7	8	2	7	8	15	8	5	0	11	6	13	13	11	2	2	0	0	0	0	5	3	0
May	11.2	N.	38	W.	0	11	10	11	4	7	7	6	6	0	13	12	6	8	7	0	0	1	0	0	0	0	6	3
June	9.3	E.	40	NW.	1	5	13	11	5	9	7	7	3	0	13	9	8	11	9	0	0	1	0	0	3	0	11	0
July	8.3	SW.	56	SW.	1	9	11	3	4	9	17	6	2	1	20	10	1	7	7	0	0	0	0	0	11	0	10	0
August	8.9	SW.	42	NW.	1	6	7	4	8	9	11	9	8	0	13	9	9	11	11	0	0	0	0	0	0	0	5	0
September	9.8	SW.	43	W.	3	4	5	7	10	6	14	9	5	0	12	11	7	10	9	0	0	0	4	0	0	0	6	1
October	12.5	SW.	42	SW.	1	6	4	6	3	5	20	8	10	0	15	3	13	14	7	0	0	0	2	0	0	0	2	0
November	12.2	SW.	52	N.	1	5	12	3	5	9	9	7	10	0	3	7	20	13	11	8	5	0	3	0	0	11	0	0
December	12.1	NW.	54	SW.	3	6	4	3	5	6	14	7	17	0	3	7	21	12	11	14	8	0	1	6	0	29	0	0
Year	11.1	SW.	56	SW.	19	74	97	67	70	84	148	100	89	1	122	94	149	137	110	54	27	4	13	24	14	110	51	4

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 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	10.8	NW.	38	NW.	0	5	3	3	11	8	10	6	15	1	10	9	12	5	2	9	5	0	0	27	0	31	0	0
February	10.9	NW.	48	NW.	1	6	2	5	10	4	8	9	12	0	8	6	14	10	4	11	8	0	1	19	0	28	0	0
March	11.5	NW.	39	W.	0	11	5	7	12	5	5	7	10	0	4	13	14	11	7	14	10	0	1	16	0	28	1	0
April	12.9	NE.	36	NE.	0	14	13	7	5	2	5	4	10	0	13	7	10	9	8	4	2	1	0	4	0	19	0	1
May	10.6	SE.	40	SW.	2	8	8	11	15	4	3	4	9	0	16	8	7	8	4	0	0	1	0	0	0	7	3	3
June	9.1	SE.	33	NE.	0	4	6	6	18	6	5	8	7	0	12	10	8	14	8	0	0	0	0	0	2	0	11	0
July	8.2	SE.	34	W.	0	6	6	4	11	10	9	6	9	1	16	9	6	12	10	0	0	1	1	0	5	0	10	1
August	8.8	S.	36	W.	0	7	7	6	15	10	3	4	10	0	18	7	6	10	6	0	0	1	0	0	2	0	4	0
September	10.2	W.	37	W.	0	2	6	6	10	3	8	14	11	0	8	8	14	13	12	0	0	0	0	0	0	0	4	0
October	9.3	NW.	44	W.	1	10	4	6	5	6	8	12	10	1	16	7	8	11	4	2	2	0	3	0	0	6	0	0
November	9.5	W.	25	NE.	0	5	11	3	11	5	9	7	9	0	4	8	18	6	4	17	6	0	0	19	0	30	0	0
December	10.5	NW.	36	NW.	0	7	2	0	2	7	14	14	16	0	14	4	13	10	6	13	8	0	0	20	0	30	0	0
Year	10.2	NW.	48	NW.	4	85	73	64	125	70	87	95	128	3	139	96	130	119	75	70	41	4	6	105	9	179	33	5

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 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	10.9	NW.	43	W.	1	11	3	3	6	9	5	8	17	0	10	7	14	4	3	2	1	0	0	2	0	25	1	0
February	10.1	NW.	39	SW.	0	7	5	2	6	4	10	6	16	0	16	5	7	2	2	2	2	0	0	3	0	21	0	0
March	13.3	S.	39	NE.	0	9	10	2	7	15	8	2	11	0	19	6	6	1	0	3	1	0	0	0	0	12	2	0
April	12.6	NW.	39	SE.	0	9	6	1	11	12	6	3	12	0	16	9	5	7	6	1	0	0	0	0	0	6	5	0
May	12.1	SE.	34	SE.	0	4	3	4	24	15	5	5	2	0	9	17	5	9	7	0	0	3	1	0	1	0	6	0
June	8.4	SE.	30	S.	0	4	9	4	23	8	2	0	8	2	12	10	8	13	11	0	0	0	0	0	4	0	15	0
July	9.6	SE.	34	SE.	0	3	4	5	23	14	11	2	0	0	17	10	4	8	6	0	0	0	0	0	15	0	7	0
August	8.7	SW.	29	NE.	0	5	5	7	18	13	12	0	2	0	20	10	1	11	8	0	0	0	0	0	17	0	11	0
September	11.9	S.	37	SW.	0	4	8	5	15	19	5	3	1	0	22	7	1	6	4	0	0	1	0	0	9	0	6	0
October	10.2	NW.	40	NE.	1	8	9	1	13	9	6	2	14	0	25	5	1	3	3	0	0	0	0	0	3	0	1	0
November	8.5	NW.	29	NW.	0	11	6	3	9	8	4	3	16	0	21	4	5	0	0	2	0	0	0	1	0	19	0	0
December	9.4	NW.	38	N.	0	8	9	1	9	4	5	12	14	0	13	11	7	2	1	7	2	0	0	7	0	26	0	0
Year	10.5	S.	43	W.	2	83	77	38	164	130	77	46	113	2	200	101	64	66	51	17	6	4	1	13	49	109	54	0

Annual meteorological summary for the year ending December 31, 1921—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	28.690	29.260	28.150	25.3	32.1	30.9	37.2	21.7	29.4	58	4	23	26	26	90	79	82	0.125	0.146	0.146	0.32	0.22	4.7	6.7	5.6	6.7
February	28.610	29.250	27.923	26.3	37.1	36.1	43.1	23.1	33.1	70	9	23	27	27	88	68	71	.127	.153	.155	.81	.46	4.8	6.1	4.2	5.0
March	28.574	29.309	27.890	35.7	48.7	47.7	55.3	30.9	43.1	84	11	30	30	30	80	52	52	.177	.181	.174	1.69	1.64	6.4	5.5	4.6	5.5
April	28.505	29.250	27.850	44.5	58.0	56.6	63.1	40.1	51.6	87	21	38	40	40	79	54	59	.249	.264	.262	3.33	.95	5.1	5.9	5.7	5.6
May	28.589	28.950	28.130	57.0	70.1	68.8	73.8	53.0	63.4	92	33	51	52	52	81	54	57	.397	.418	.416	3.04	1.05	6.1	6.0	5.0	5.7
June	28.550	28.950	28.260	69.3	80.9	80.1	85.0	64.4	74.7	98	52	64	65	65	83	60	62	.603	.631	.631	2.80	1.29	5.2	5.1	5.3	4.8
July	28.608	28.880	28.148	71.2	83.2	80.7	86.8	66.6	76.7	95	59	66	68	68	84	62	67	.644	.694	.692	7.57	3.10	4.3	4.8	4.4	4.4
August	28.604	28.910	28.309	65.6	80.7	77.0	84.4	62.5	73.4	96	52	62	65	65	88	60	67	.559	.633	.627	1.69	.60	5.2	3.8	4.2	4.3
September	28.527	28.831	28.080	60.4	75.8	71.2	80.9	56.3	68.6	94	39	56	57	56	87	54	60	.479	.487	.478	3.73	1.52	4.5	3.9	2.9	3.8
October	28.540	28.960	28.070	46.6	63.8	58.8	68.4	44.2	56.3	87	32	38	42	40	74	48	53	.237	.273	.262	1.58	1.33	4.3	3.5	2.7	3.5
November	28.647	29.020	28.200	28.3	39.9	36.3	44.6	25.1	34.8	66	8	26	30	29	89	69	74	.140	.169	.163	.16	.08	5.7	6.4	5.8	6.2
December	28.690	29.130	28.122	23.1	35.0	30.8	40.4	18.1	29.2	70	−8	19	23	22	85	63	72	.111	.129	.122	.07	.05	4.8	4.8	3.1	4.6
Year	28.594	29.309	27.850	46.1	58.8	56.2	63.6	42.2	52.9	96	−8	41	44	43	84	60	65	.321	.348	.344	26.79	3.10	5.1	5.2	4.5	5.0

DUBUQUE, IOWA.

[ϕ=42° 30′ N.; λ=90° 44′ W.]

January	29.387	30.080	28.750	25.1	30.7	30.0	35.2	21.8	28.5	54	0	22	22	22	87	71	72	0.126	0.128	0.127	0.18	0.10	5.7	6.2	4.9	5.8
February	29.297	29.900	28.660	25.1	32.0	32.8	38.1	21.5	29.8	68	10	22	24	25	87	72	71	.118	.133	.138	.29	.22	7.5	7.4	5.5	7.0
March	29.269	29.980	28.750	35.5	44.6	43.8	50.9	31.6	41.2	77	12	30	31	32	81	60	63	.184	.193	.195	2.05	1.42	6.9	6.9	5.6	6.5
April	29.208	29.830	28.680	45.9	57.1	55.9	61.7	42.6	52.2	81	25	39	42	41	77	59	60	.256	.285	.268	4.70	1.24	5.9	6.1	5.8	6.1
May	29.290	29.600	28.940	57.6	68.9	67.5	73.4	53.7	63.6	91	35	49	51	51	74	54	58	.379	.410	.406	2.26	.62	6.1	6.8	5.9	6.4
June	29.236	29.680	29.040	69.0	80.3	79.7	84.4	65.7	75.0	93	44	61	62	63	77	54	58	.568	.570	.595	3.54	2.18	5.9	6.1	5.0	5.9
July	29.270	29.486	28.990	72.8	86.0	83.0	89.2	68.9	79.0	98	59	65	63	64	78	49	55	.630	.591	.606	2.48	.97	3.8	4.5	3.0	4.1
August	29.303	29.642	28.969	65.6	76.8	74.0	80.4	62.7	71.6	94	52	60	61	62	84	60	68	.540	.558	.579	4.29	1.49	3.9	5.5	5.6	5.6
September	29.225	29.540	28.850	60.6	72.6	68.5	76.5	57.3	66.9	90	44	57	57	58	88	60	71	.482	.486	.503	8.35	1.72	4.6	5.7	4.7	5.1
October	29.215	29.590	28.890	46.7	57.7	55.0	61.0	44.8	52.9	77	33	40	41	43	79	55	66	.255	.268	.290	3.43	1.24	5.1	5.5	4.0	5.4
November	29.326	29.740	28.960	31.4	37.5	35.7	40.4	27.9	34.2	59	14	28	28	29	86	69	78	.152	.154	.162	.91	.68	7.4	8.1	6.6	7.7
December	29.307	29.840	28.620	24.3	29.3	29.4	34.6	19.7	27.2	54	−7	20	22	23	84	71	76	.117	.124	.133	2.43	1.24	6.5	7.2	5.7	6.8
Year	29.278	30.080	28.620	46.6	56.1	54.6	60.5	43.2	51.8	98	−7	41	42	43	82	61	66	.317	.325	.334	34.91	2.18	5.8	6.3	5.2	6.0

DUE WEST, S. C.

[ϕ=34° 21′ N.; λ=82° 22′ W.]

January	29.449	30.050	28.980	38.3	48.9	....	53.8	34.7	44.2	71	22	33	34	....	81	60	....	0.196	0.214	.....	3.93	1.18	6.4	6.8	....	6.0
February	29.334	29.620	28.810	40.6	50.7	....	56.0	37.8	46.9	72	20	37	39	....	86	67	....	.231	.259	.....	6.09	2.15	6.1	6.1	....	5.4
March	29.424	29.650	29.106	53.8	67.0	....	71.5	50.3	60.9	84	35	48	48	....	82	54	....	.361	.359	.....	1.97	.81	5.8	5.2	....	5.8
April	29.337	29.620	28.970	58.0	68.7	....	73.0	49.8	61.4	85	32	48	46	....	75	46	....	.363	.343	.....	1.65	.60	5.1	4.7	....	4.6
May	29.253	29.580	28.970	63.6	74.0	....	77.9	56.7	67.3	94	41	55	53	....	75	52	....	.457	.433	.....	4.04	1.61	5.1	6.4	....	6.0
June	29.277	29.543	28.950	73.7	85.6	....	89.9	67.4	78.6	99	59	65	62	....	74	47	....	.623	.565	.....	1.65	.39	4.7	5.7	....	5.5
July	29.306	29.557	29.060	74.0	84.6	....	88.3	69.8	79.0	97	65	70	68	....	87	60	....	.729	.696	.....	6.10	3.56	6.7	6.6	....	6.6
August	29.361	29.530	29.180	72.4	82.0	....	85.5	68.2	76.8	100	60	67	67	....	85	62	....	.674	.668	.....	6.42	1.53	6.1	6.9	....	6.2
September	29.328	29.460	29.120	73.1	86.2	....	90.1	68.7	79.4	97	63	68	66	....	84	53	....	.680	.651	.....	6.13	2.00	3.9	4.8	....	4.9
October	29.300	29.740	28.920	53.6	68.8	....	72.4	48.9	60.6	82	37	45	44	....	73	43	....	.313	.311	.....	1.93	1.27	3.2	3.2	....	3.3
November	29.338	29.636	28.760	48.0	59.3	....	63.4	45.4	54.4	75	33	44	47	....	88	66	....	.309	.338	.....	3.03	.96	4.4	5.2	....	5.2
December	29.340	29.800	28.820	41.6	54.8	....	58.3	38.9	48.6	69	26	36	38	....	82	55	....	.226	.243	.....	1.46	.65	5.0	4.8	....	4.9
Year	29.337	30.050	28.760	57.6	69.2	....	73.3	53.0	63.2	100	20	51	51	....	81	55	....	.430	.423	.....	44.40	3.56	5.2	5.5	....	5.4

DULUTH, MINN.

[ϕ=46° 47′ N.; λ=92° 06′ W.]

January	28.817	29.500	27.970	13.7	18.8	17.9	23.9	9.3	16.6	43	−17	12	14	14	93	82	86	0.078	0.086	0.086	0.18	0.11	5.7	6.2	5.3	6.2
February	28.742	29.470	27.940	14.9	21.4	21.1	27.0	11.0	19.0	44	−16	13	16	17	93	78	83	.085	.095	.097	.45	.27	6.5	6.5	6.2	6.1
March	28.753	29.550	28.060	20.8	27.7	27.2	33.5	15.7	24.6	60	−8	19	21	21	92	76	78	.111	.119	.118	1.76	.69	6.3	5.9	6.4	6.1
April	28.709	29.279	28.210	36.8	43.2	41.8	49.0	32.7	40.8	72	21	30	30	30	78	63	66	.167	.170	.175	2.10	.58	5.1	4.6	5.2	4.9
May	28.828	29.210	28.500	47.1	53.6	52.7	60.0	41.0	50.5	87	27	40	43	42	79	70	70	.269	.300	.291	2.77	1.31	4.9	4.4	4.5	5.1
June	28.761	29.250	28.550	59.6	67.3	66.0	72.5	52.7	62.6	89	37	54	56	54	82	69	69	.429	.466	.437	4.38	1.78	3.5	3.6	3.8	4.5
July	28.763	29.070	28.350	67.8	75.9	73.4	80.4	61.3	70.8	94	50	61	62	62	80	65	70	.545	.571	.570	5.41	1.73	4.1	4.7	3.2	3.9
August	28.801	29.120	28.370	59.5	68.7	65.2	72.2	55.0	63.6	91	48	54	56	55	84	67	70	.443	.466	.439	2.84	.92	5.6	4.0	3.3	4.1
September	28.678	29.090	28.120	53.2	62.5	58.1	66.2	50.2	58.2	89	38	49	51	49	86	69	74	.352	.377	.357	3.09	1.27	4.8	5.8	3.7	5.5
October	28.715	29.040	28.160	40.4	50.0	45.3	53.6	37.7	45.6	74	29	37	41	38	87	74	78	.220	.263	.230	.70	.21	5.8	5.0	4.0	6.2
November	28.831	29.340	28.320	21.0	25.8	23.3	29.3	17.0	23.2	48	−11	19	21	20	91	81	88	.109	.118	.112	.70	.28	7.1	7.9	6.2	7.6
December	28.769	29.300	28.050	12.3	17.5	15.1	22.7	6.8	14.8	41	−22	11	13	13	94	82	89	.089	.086	.086	.60	.25	5.9	5.9	5.5	5.8
Year	28.764	29.560	27.940	37.3	44.4	42.3	49.2	32.5	40.9	94	−22	33	35	35	86	73	77	.240	.260	.254	25.07	1.78	5.4	5.4	4.8	5.5

Annual meteorological summary for the year ending December 31, 1921—Continued.

DREXEL, NEBR.

[H_b=1,299 ft.; h_t=10 ft.; h_r=3 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	11.6	SW.	40	E.	2	13	1	6	6	11	13	4	8	0	7	7	17	6	2	12	3	0	6	12	0	28	0	0
February	12.2	NW.	53	W.	2	3	4	3	6	6	12	4	17	1	11	10	7	7	4	7	5	0	1	5	0	27	1	0
March	14.3	N.	45	SW.	4	14	4	2	8	14	7	4	9	0	9	12	10	3	1	4	0	0	3	1	0	19	2	0
April	14.7	S.	47	SW.	6	6	8	0	7	15	8	6	10	0	9	11	10	13	10	3	2	0	0	0	0	7	8	0
May	11.1	S.	44	E.	1	9	6	5	12	14	7	3	6	0	9	11	11	10	9	0	0	1	0	0	2	0	10	4
June	8.3	S.	33	SE.	0	5	5	10	8	20	8	2	2	0	11	11	8	8	5	0	0	0	0	0	5	0	12	0
July	7.7	S.	30	SW.	0	6	8	4	13	19	7	1	4	0	14	9	8	14	12	0	0	0	0	0	6	0	17	0
August	8.0	S.	28	S.	0	4	16	5	13	12	5	2	5	0	14	12	5	9	6	0	0	0	0	0	10	0	14	0
September	9.4	S.	35	SW.	0	3	5	9	15	14	6	1	6	1	15	11	4	11	8	0	0	0	2	0	4	0	13	3
October	11.1	S.	39	SW.	0	9	8	5	5	13	8	5	9	0	18	8	5	5	4	0	0	0	0	0	0	1	3	1
November	9.8	N.	33	S.	0	10	14	2	6	10	4	2	12	0	7	12	11	5	2	8	3	0	2	6	0	24	0	0
December	11.8	NW.	40	NW.	1	10	12	3	5	2	13	7	10	0	12	12	7	3	0	7	3	0	0	12	0	27	0	0
Year	10.8	S.	53	W.	16	92	91	54	104	150	98	41	98	2	136	126	103	94	63	41	16	1	14	36	27	133	80	8

DUBUQUE, IOWA.

[H_b=698 ft.; h_t=81 ft.; h_r=76 ft.; h_a=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.	0.04 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	6.9	NW.	31	NW.	0	9	5	3	6	16	2	9	11	1	7	12	12	3	2	9	2	0	1	12	0	27	0	0
February	6.7	NW.	25	SW.	0	8	6	0	7	13	1	9	11	1	5	9	14	4	2	11	4	0	0	9	0	27	0	0
March	8.6	NW.	31	SW.	0	7	5	6	6	18	3	1	16	0	9	8	14	12	7	1	0	0	2	1	0	15	3	0
April	8.2	S.	32	NW.	0	4	7	1	4	20	8	2	14	0	8	10	12	15	12	3	2	2	0	1	0	6	5	0
May	6.4	S.	30	NW.	0	13	6	4	10	13	4	0	12	0	7	8	16	11	9	0	0	0	0	0	1	0	7	3
June	4.9	SE.	17	N.	0	7	11	6	12	11	4	2	7	0	6	13	11	8	6	0	0	0	0	0	9	0	9	0
July	4.7	SW.	34	NW.	0	10	5	1	6	13	11	2	13	1	12	15	4	9	7	0	0	0	0	0	16	0	6	0
August	5.2	S.	29	NW.	0	10	8	3	7	18	8	1	7	0	7	17	7	11	10	0	0	0	2	0	2	0	6	0
September	5.7	S.	30	NW.	0	3	0	2	9	23	6	4	10	3	12	6	12	11	11	0	0	0	1	0	1	0	7	0
October	6.7	NW.	24	NW.	0	9	5	3	2	15	11	5	12	0	9	11	11	8	7	2	0	0	0	0	0	0	2	0
November	6.4	NW.	24	NW.	0	17	5	4	9	6	6	2	11	0	5	4	21	7	3	9	6	0	1	4	0	20	0	0
December	7.7	NW.	32	NW.	0	7	4	1	6	9	7	4	24	0	5	10	16	6	5	10	4	0	4	10	0	24	0	0
Year	6.5	S.	34	NW.	0	104	67	34	84	175	71	41	148	6	92	123	150	105	81	45	18	2	11	37	29	119	45	3

DUE WEST, S. C.

[H_b=711 ft.; h_t=10 ft.; h_r=4 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	9.1	SW.	30	NE.	0	2	8	4	1	1	10	3	2	0	9	8	14	10	7	3	2	0	2	0	0	10	0	0
February	8.3	SW.	37	W.	0	3	6	3	1	3	5	4	1	2	8	11	9	13	12	2	1	0	2	0	0	9	4	0
March	8.9	SW.	28	NW.	0	1	6	5	2	9	3	3	2	0	10	6	15	8	6	0	0	0	1	0	0	0	7	0
April	8.7	S.	40	NW.	1	4	7	2	4	3	5	5	0	0	13	10	7	8	7	0	0	0	0	0	0	1	6	0
May	7.6	NE.	42	NW.	1	3	10	4	3	2	0	6	3	0	6	13	12	8	7	0	0	1	2	0	3	0	7	0
June	7.2	SW.	34	SW.	0	0	7	2	1	2	8	6	4	0	6	18	6	8	6	0	0	0	0	0	17	0	13	0
July	6.7	E.	38	SW.	0	0	5	8	2	2	7	7	0	0	1	18	12	12	11	0	0	0	2	0	12	0	14	0
August	6.8	NE.	41	NW.	1	0	6	7	1	2	8	2	3	2	8	9	14	11	7	0	0	0	2	0	9	0	13	0
September	5.5	SW.	30	S.	0	2	8	4	1	0	8	6	1	0	11	14	5	9	8	0	0	0	0	0	16	0	13	0
October	8.5	NE.	36	NE.	0	3	15	0	1	3	5	3	0	1	18	8	5	5	5	0	0	0	1	0	0	0	1	0
November	7.4	SW.	35	W.	0	0	9	4	1	2	6	4	4	0	12	4	14	11	8	0	0	0	3	0	0	0	1	0
December	9.0	SW.	40	W.	1	1	3	6	0	3	9	6	2	1	11	9	11	6	4	0	0	0	1	0	0	2	1	0
Year	7.8	NE.	42	NW.	4	19	90	49	18	32	74	55	22	6	113	128	124	109	88	5	3	1	16	0	57	22	80	0

DULUTH, MINN.

[H_b=1,133 ft.; h_t=11 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	12.8	SW.	59	NW.	7	2	7	2	9	3	17	13	9	0	9	8	14	5	2	11	5	0	2	26	0	31	0	0
February	11.6	NW.	44	SW.	2	3	8	5	1	4	13	13	9	0	7	9	12	7	3	13	7	0	0	20	0	28	0	1
March	13.8	NE.	69	NW.	5	6	22	5	1	2	7	14	5	0	7	11	13	14	10	15	11	0	5	14	0	29	2	0
April	16.3	NE.	54	NW.	5	3	30	0	0	1	10	9	7	0	12	9	9	9	6	5	2	0	1	1	0	14	2	4
May	12.4	NE.	42	SW.	1	2	37	2	0	2	4	5	10	0	13	6	12	9	7	1	1	0	6	0	0	7	6	5
June	10.7	NE.	35	NW.	0	1	31	6	1	0	7	7	7	0	13	10	7	10	7	0	0	1	7	0	0	0	6	1
July	9.5	NE.	36	NW.	0	6	18	1	6	4	10	10	7	0	13	14	4	11	9	0	0	0	2	0	1	0	10	0
August	10.5	NE.	43	SW.	2	5	26	1	0	2	13	11	4	0	13	13	5	9	7	0	0	2	2	0	1	0	6	0
September	13.6	W.	50	E.	3	2	20	1	0	1	11	17	8	0	9	11	10	12	8	0	0	0	6	0	0	0	4	4
October	14.2	NW.	53	W.	2	5	14	0	0	1	9	13	20	0	10	8	13	10	6	2	1	0	8	0	0	5	1	0
November	11.5	NW.	37	NW.	0	8	8	2	3	3	8	7	21	0	4	6	20	7	3	16	7	0	2	19	0	29	0	0
December	13.5	NW.	56	NW.	4	5	1	1	1	0	13	11	30	0	11	5	15	8	7	14	8	0	1	25	0	31	0	2
Year	12.5	NE.	69	NW.	31	48	222	26	22	23	122	130	137	0	121	110	134	111	75	77	42	3	42	105	2	174	37	23

Annual meteorological summary for the year ending December 31, 1921—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	29.935	30.690	29.200	21.8	25.1	24.2	31.0	15.9	23.4	49	−6	14	18	17	68	72	71	0.101	0.113	0.107	2.10	0.95	6.3	6.5	3.6	6.3
February	29.957	30.590	29.170	21.0	25.9	26.5	30.4	16.9	23.6	47	4	13	18	21	71	71	77	.093	.107	.116	2.88	.66	6.3	5.4	4.7	6.0
March	30.027	30.545	29.530	33.8	37.2	35.6	42.5	28.2	35.4	65	11	28	31	30	79	80	81	.168	.189	.182	3.01	.54	6.6	6.2	4.8	6.4
April	30.004	30.630	29.520	39.8	44.5	40.1	48.3	35.3	41.8	76	26	35	38	36	82	79	87	.209	.241	.220	2.98	.51	6.6	6.6	4.4	6.7
May	29.925	30.362	29.410	48.5	54.0	48.3	57.6	40.9	49.2	86	33	41	45	42	76	74	80	.264	.309	.274	1.25	.63	6.0	4.3	4.5	5.4
June	29.808	30.171	29.340	54.3	58.9	54.7	63.6	47.7	55.6	77	44	48	50	49	80	75	82	.338	.371	.347	1.02	.52	5.5	6.5	6.3	6.7
July	29.887	30.147	29.530	58.9	63.8	58.9	68.7	51.5	60.1	87	48	55	58	56	88	82	91	.440	.486	.449	1.79	.82	5.4	5.5	5.8	6.0
August	29.945	30.310	29.470	59.2	64.8	59.6	68.6	52.5	60.6	78	49	52	55	53	79	72	79	.398	.437	.402	1.80	.78	3.9	4.3	2.5	4.1
September	29.902	30.360	29.430	57.3	64.1	58.1	67.5	50.8	59.2	88	44	51	54	52	81	71	81	.385	.425	.391	2.38	.82	3.6	3.3	2.8	4.7
October	29.823	30.300	29.180	47.7	52.3	49.6	55.9	42.7	49.3	69	28	42	43	43	79	73	79	.278	.295	.296	1.66	.45	4.5	6.1	3.9	5.4
November	29.952	30.480	29.090	33.3	35.2	33.9	38.7	29.2	34.0	58	14	29	30	30	82	81	86	.171	.180	.177	5.11	.87	7.6	8.3	7.3	8.6
December	29.805	30.640	29.200	22.5	26.3	26.3	32.0	17.3	24.6	51	−4	16	19	20	75	72	76	.106	.117	.120	1.33	.27	5.3	5.7	4.5	5.9
Year	29.914	30.690	29.090	41.5	46.0	43.0	50.4	35.7	43.1	88	−6	35	38	37	78	75	81	.246	.272	.257	27.29	.95	5.6	5.7	4.6	6.0

ELKINS, W. VA.

[ϕ=38° 53′ N.; λ=79° 49 W.]

January	28.077	28.680	27.520	29.2	38.1	34.8	45.3	24.6	35.0	63	3	24	26	27	82	62	73	0.142	0.151	0.156	2.50	0.53	8.4	6.3	6.0	6.9
February	27.971	28.420	27.410	30.0	39.6	37.1	45.7	25.5	35.6	71	3	26	28	29	86	67	73	.148	.159	.163	3.09	1.11	8.0	7.6	6.7	7.6
March	28.067	28.450	27.749	45.7	57.6	51.1	64.9	37.0	51.0	84	19	37	39	40	75	52	68	.240	.252	.261	2.92	.85	6.8	6.2	5.4	6.3
April	28.019	28.337	27.520	46.1	59.9	55.2	65.4	38.4	51.9	84	22	40	38	41	80	49	62	.257	.247	.275	2.26	.94	5.7	6.2	6.0	5.9
May	27.986	28.330	27.700	53.3	64.8	61.1	69.5	47.4	58.4	84	33	48	47	48	82	56	66	.347	.338	.353	4.21	1.87	6.7	5.6	7.2	6.5
June	28.012	28.250	27.790	63.1	75.8	69.4	80.4	56.9	68.6	87	42	58	59	61	86	58	77	.502	.516	.552	6.08	1.85	6.7	5.8	6.1	5.9
July	28.048	28.281	27.840	65.9	79.3	72.6	83.7	61.4	72.6	89	52	63	63	66	90	60	79	.576	.586	.630	4.69	1.13	6.9	4.5	5.6	5.3
August	28.094	28.227	27.810	61.6	73.6	68.0	78.5	56.7	67.6	84	45	58	59	61	89	61	79	.492	.507	.548	6.82	3.40	5.5	5.9	6.1	6.2
September	28.057	28.260	27.770	62.2	74.4	65.8	78.6	58.0	68.3	85	47	60	61	62	93	64	89	.524	.546	.570	5.15	1.23	7.4	4.9	5.1	5.9
October	27.994	28.460	27.620	41.1	53.4	50.1	64.3	38.3	51.3	77	27	38	40	42	90	53	76	.236	.257	.275	3.30	1.29	5.1	4.8	3.8	4.9
November	27.996	28.360	27.490	39.9	48.0	45.0	54.7	34.9	44.8	78	17	36	37	37	85	68	77	.220	.233	.236	5.30	1.01	8.2	7.6	6.5	7.7
December	27.963	28.390	27.310	31.9	37.7	35.2	43.0	26.3	34.6	65	12	28	30	29	86	73	79	.160	.169	.167	5.07	1.15	9.1	6.6	8.5	7.8
Year	28.024	28.680	27.310	47.5	58.9	53.8	64.5	42.1	53.3	89	3	43	44	45	85	60	75	.320	.330	.349	51.39	3.40	7.0	6.1	6.1	6.4

ELLENDALE, N. DAK.

[ϕ=45° 59′ N.; λ=98° 34′ W.]

January	28.476	29.120	27.790	12.7	23.4	....	29.8	8.5	19.2	55	−10	10	16	....	89	72	....	0.070	0.092	....	0.16	0.12	4.8	6.0	....	5.7
February	28.396	29.170	27.460	15.6	27.8	....	34.5	10.0	22.2	58	−11	14	18	....	91	68	....	.089	.106	....	.25	.08	6.6	6.0	....	5.2
March	28.403	29.100	27.910	20.7	33.1	....	39.4	16.0	27.7	75	−2	18	21	....	88	63	....	.106	.121	....	1.56	.84	6.1	7.4	....	6.8
April	28.335	29.020	27.750	33.5	51.0	....	57.0	30.6	43.8	81	17	30	31	....	86	50	....	.170	.181	....	1.66	.61	5.2	5.8	....	5.3
May	28.457	28.898	27.910	47.4	62.0	....	66.0	42.9	54.4	85	23	42	43	....	82	52	....	.282	.298	....	4.53	1.38	6.7	7.0	....	6.0
June	28.369	28.920	27.950	63.1	76.0	....	80.3	57.5	68.9	98	39	58	60	....	85	60	....	.504	.538	....	3.40	1.71	5.5	5.7	....	5.0
July	28.416	28.680	27.800	63.8	79.2	....	82.9	59.0	71.0	95	50	59	61	....	85	54	....	.504	.541	....	5.84	2.64	3.9	4.6	....	4.2
August	28.453	28.810	28.070	56.9	77.2	....	81.5	52.7	67.1	93	40	53	56	....	88	49	....	.414	.458	....	2.19	.81	4.5	3.7	....	4.2
September	28.337	28.770	27.830	50.3	66.4	....	70.4	46.4	58.4	95	33	44	46	....	82	51	....	.301	.325	....	5.78	2.64	5.2	5.6	....	5.3
October	28.378	28.800	27.870	38.7	56.5	....	60.6	35.0	47.8	78	25	34	36	....	83	50	....	.198	.215	....	.72	.56	3.8	5.4	....	4.9
November	28.504	28.980	27.750	18.0	25.7	....	29.0	11.5	20.2	68	−17	16	20	....	91	78	....	.095	.112	....	.65	.22	7.9	6.9	....	7.6
December	28.487	29.030	27.750	15.4	22.8	....	27.0	9.2	18.1	54	−28	12	16	....	86	74	....	.090	.100	....	.28	.14	5.4	5.8	....	5.5
Year	28.418	29.170	27.460	36.3	50.1	....	54.9	31.6	43.2	98	−28	32	35	....	86	60	....	.235	.257	....	27.02	2.64	5.5	5.8	....	5.5

EL PASO, TEX.

[ϕ=31° 47′ N.; λ=106° 30′ W.]

January	26.270	26.560	26.070	39.8	54.0	56.6	61.1	36.2	48.6	77	21	21	24	21	45	32	25	0.113	0.131	0.116	0.06	0.06	2.8	3.1	3.6	3.7
February	26.209	26.560	25.857	39.2	54.7	58.9	62.6	36.1	49.4	80	25	20	22	21	46	30	24	.106	.122	.114	.26	.23	1.8	2.8	2.8	2.8
March	26.155	26.620	25.720	48.5	65.1	68.8	72.1	46.5	59.3	83	32	25	30	23	40	29	20	.132	.177	.133	.04	.04	1.2	1.5	2.7	2.0
April	26.115	26.600	25.640	50.0	67.5	71.1	74.5	47.5	61.0	88	34	22	21	16	35	18	13	.119	.115	.094	.01	.01	1.3	2.0	2.3	1.9
May	26.099	26.250	25.880	59.9	79.4	81.3	85.4	58.4	71.9	93	48	34	29	24	29	18	15	.211	.173	.149	.31	.17	1.7	2.2	2.5	2.4
June	26.096	26.290	25.930	68.6	85.4	87.7	92.4	66.9	79.6	101	56	49	43	37	32	25	21	.363	.290	.246	.79	.42	1.3	1.3	3.4	2.5
July	26.189	26.400	25.850	71.8	84.4	85.7	89.7	70.0	79.8	100	63	59	58	54	65	43	37	.497	.487	.431	2.13	.94	4.1	3.8	5.3	4.5
August	26.214	26.390	26.085	70.8	85.5	86.6	91.0	69.7	80.4	98	64	58	55	52	64	37	33	.476	.443	.400	.35	.19	2.8	1.7	3.5	3.2
September	26.161	26.300	26.034	67.0	82.2	83.4	88.0	65.0	76.5	96	58	55	54	51	68	40	36	.447	.425	.389	2.49	.90	3.8	2.8	3.0	2.4
October	26.224	26.520	25.940	56.0	74.5	74.6	79.7	53.3	66.5	88	36	38	40	36	51	30	26	.239	.256	.221	.11	.09	1.2	.7	.9	.9
November	26.252	26.510	25.860	42.3	62.7	62.9	68.5	40.2	54.4	75	24	19	26	24	38	26	25	.102	.142	.135	.22	.21	1.3	1.5	1.9	1.8
December	26.235	26.590	25.810	40.9	54.6	56.2	60.4	38.3	49.4	74	26	23	28	23	49	36	35	.125	.160	.155	.15	.11	2.3	2.8	3.3	3.1
Year	26.189	26.670	25.640	54.6	70.8	72.8	77.1	52.3	64.7	101	21	35	36	32	49	30	26	.244	.243	.215	6.92	.94	2.1	2.2	2.9	2.7

Annual meteorological summary for the year ending December 31, 1921—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	13.4	NW.	47	S.	3	6	2	0	3	6	15	13	17	0	9	7	15	10	8	12	8	0	0	15	0	26	0	0
February	12.2	NW.	48	E.	3	8	7	1	3	8	5	11	13	0	5	13	10	14	10	14	11	0	0	19	0	27	0	1
March	13.2	S.	40	S.	1	7	2	1	3	19	15	4	11	0	5	12	14	17	10	8	5	0	7	1	0	19	0	0
April	12.1	S.	48	NW.	3	14	11	6	2	16	4	2	4	1	7	8	15	14	11	4	3	1	4	0	0	11	0	1
May	9.4	S.	44	NW.	1	2	18	4	2	12	14	3	7	0	12	6	13	8	5	0	0	0	3	0	0	0	2	0
June	8.0	S.	29	NW.	0	4	10	0	3	16	8	3	14	2	4	13	13	13	7	0	0	0	4	0	0	0	3	0
July	7.3	S.	36	E.	0	4	8	3	0	29	11	1	2	4	5	16	10	7	5	0	0	0	15	0	0	0	5	0
August	9.4	S.	49	SE.	1	3	5	2	0	16	16	7	12	1	16	9	6	4	3	0	0	0	6	0	0	0	1	1
September	10.1	S.	38	S.	0	5	2	2	0	15	15	10	10	1	11	2	7	11	9	0	0	0	6	0	0	0	1	3
October	11.8	SW.	37	SE.	0	6	5	3	0	10	21	9	8	0	11	8	12	7	6	1	0	0	4	0	0	3	2	1
November	14.9	NW.	41	NE.	2	6	13	6	5	2	5	13	9	1	2	4	24	20	17	12	9	0	1	5	0	18	0	0
December	13.5	NW.	45	S.	2	6	2	2	3	6	6	13	24	0	7	12	12	11	9	10	9	0	1	15	0	27	0	1
Year	11.3	S.	49	SE.	16	71	85	30	24	155	135	89	131	10	94	120	151	136	100	61	45	1	51	55	0	131	14	8

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	6.5	W.	33	W.	0	13	4	3	3	7	5	16	7	4	4	11	16	16	14	10	7	0	0	4	0	25	0	0
February	6.1	W.	30	SW.	0	9	6	0	7	5	8	13	6	2	3	8	17	12	9	11	7	0	1	5	0	23	1	0
March	6.4	S.	34	NW.	0	9	1	1	6	12	9	6	13	5	7	10	14	16	12	5	3	1	1	0	0	11	5	0
April	5.8	NW.	27	NW.	0	4	0	2	6	11	2	11	16	8	10	6	14	14	12	4	3	0	0	0	0	8	2	0
May	4.5	NW.	27	NW.	0	11	2	6	7	7	2	7	17	3	6	11	14	12	9	0	0	0	2	0	0	0	6	1
June	3.4	W.	34	NW.	0	7	4	2	8	9	9	3	14	4	5	18	7	13	12	0	0	0	5	0	0	0	12	0
July	3.2	S.	24	SW.	0	7	3	4	14	12	3	9	4	6	6	20	5	17	11	0	0	1	10	0	0	0	12	0
August	3.8	S.	23	NW.	0	8	2	5	8	14	6	6	8	5	6	11	14	9	8	0	0	0	7	0	0	0	5	0
September	3.1	W.	34	W.	0	7	3	1	6	16	2	14	4	7	4	20	6	16	12	0	0	0	8	0	0	0	8	0
October	5.3	W.	25	W.	0	3	6	2	11	2	7	18	7	6	15	6	10	10	9	2	2	0	8	0	0	5	0	0
November	5.5	W.	25	W.	0	7	2	1	4	15	7	11	12	1	3	8	19	18	15	5	4	0	1	0	0	11	2	0
December	6.8	W.	39	W.	0	6	3	3	4	11	7	17	9	2	1	14	16	17	14	10	8	0	0	1	0	26	0	0
Year	5.0	W.	39	W.	0	91	36	30	84	121	67	131	117	53	70	143	152	170	137	47	34	2	43	10	0	109	53	1

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	14.5	NW.	53	W.	4	3	4	2	1	7	4	4	6	0	10	9	12	3	1	6	3	0	3	18	0	31	0	0
February	14.2	NW.	53	NW.	6	4	1	2	2	4	4	1	10	0	9	13	6	7	3	10	6	0	1	13	0	28	0	0
March	15.9	NW.	58	N.	4	3	5	3	1	4	3	3	9	0	3	14	14	11	5	13	10	0	1	9	0	28	0	2
April	16.7	NW.	43	SW.	5	7	4	0	3	3	2	3	8	0	8	12	10	11	8	4	3	0	1	1	0	15	2	1
May	14.6	SE.	48	S.	5	5	0	0	6	2	1	3	5	0	7	8	16	12	10	0	0	0	2	0	0	6	4	6
June	12.3	SE.	48	SE.	2	2	4	4	4	7	1	3	5	0	12	10	8	8	5	0	0	1	1	0	3	0	10	1
July	11.4	S.	84	W.	2	5	2	0	2	7	4	2	9	0	15	11	5	9	9	0	0	2	0	0	7	0	8	0
August	11.6	S.	62	SE.	2	5	3	1	3	7	4	1	7	0	13	15	3	9	6	0	0	1	1	0	3	0	10	2
September	14.8	NW.	68	SE.	2	1	2	2	3	2	5	7	8	0	5	19	6	11	10	0	0	0	0	0	1	0	9	2
October	13.6	NW.	53	NW.	3	3	3	1	1	3	4	3	13	0	12	10	9	6	4	0	0	0	3	0	0	9	1	2
November	12.0	NW.	42	NW.	1	4	4	1	6	2	4	0	9	0	4	10	16	8	6	17	8	0	0	13	0	30	0	0
December	15.1	NW.	54	NW.	4	4	3	0	0	6	5	2	11	0	12	5	14	5	3	9	5	0	0	18	0	28	0	5
Year	13.9	NW.	84	W.	40	46	44	16	32	54	41	32	100	0	110	136	119	100	70	59	35	4	13	77	14	175	44	21

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	10.1	NW.	44	W.	2	0	8	11	8	1	1	14	19	0	15	12	4	1	1	1	1	0	0	0	0	10	0	0
February	11.2	W.	46	W.	3	0	7	9	6	2	5	21	6	0	17	7	4	4	1	1	0	0	0	0	0	9	1	0
March	13.6	W.	47	SW.	4	2	5	12	7	0	4	22	10	0	23	8	0	1	1	1	0	0	0	0	0	0	1	0
April	15.4	W.	65	W.	10	0	3	10	3	1	10	19	14	0	24	5	1	1	0	1	0	0	0	0	0	0	0	0
May	11.0	W.	41	W.	1	1	8	10	10	4	6	16	7	0	21	9	1	4	2	0	0	0	0	0	0	8	0	4
June	11.2	E.	53	NW.	4	1	15	17	7	0	3	10	7	0	22	8	0	4	4	0	0	1	0	0	21	0	6	0
July	10.7	E.	42	SW.	1	3	11	17	14	0	3	9	5	0	12	15	4	9	6	0	0	0	0	0	15	0	9	0
August	9.0	SE.	40	NE.	1	2	4	11	19	2	4	10	9	1	19	12	0	6	2	0	0	0	0	0	21	0	9	0
September	7.8	W.	36	NE.	0	0	11	12	6	1	7	14	9	0	16	12	2	8	8	0	0	0	0	0	10	0	6	0
October	9.0	E.	40	NE.	1	2	8	11	10	0	4	10	15	2	28	3	0	3	1	0	0	0	0	0	0	0	0	0
November	8.3	W.	38	NW.	0	2	4	6	10	1	10	10	17	0	21	8	1	3	2	0	0	0	0	0	0	3	0	0
December	10.4	NW.	49	W.	2	2	14	9	2	1	2	11	21	0	20	8	3	2	2	1	0	0	0	0	0	8	1	0
Year	10.6	W.	65	W.	29	15	98	135	102	13	59	166	139	3	238	107	20	46	30	5	1	1	0	0	75	30	37	0

Annual meteorological summary for the year ending December 31, 1921—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	29.342	30.140	28.730	29.6	35.5	32.0	37.7	25.1	31.4	57	4	23	24	25	74	70	74	0.129	0.135	0.145	1.59	.27	7.7	7.2	6.1	7.5
February	29.257	29.760	28.737	30.6	33.4	32.5	37.2	25.4	31.3	63	16	26	26	26	84	74	78	.143	.143	.147	1.87	.56	7.9	7.6	7.5	8.1
March	29.296	29.890	28.760	42.3	45.9	44.6	54.7	35.1	44.9	76	18	35	36	37	75	69	75	.216	.226	.241	3.73	.93	8.1	7.4	5.9	7.4
April	29.244	29.600	28.650	51.5	56.7	54.1	62.0	45.4	53.7	82	28	43	46	45	74	70	72	.299	.336	.309	3.58	1.02	6.6	6.4	5.6	6.2
May	29.245	29.516	29.000	57.8	62.1	60.5	66.4	51.5	59.0	83	37	49	50	50	74	68	71	.364	.389	.379	.97	.33	5.1	4.7	4.4	4.9
June	29.233	29.596	28.940	68.3	71.7	71.5	77.4	61.0	69.2	87	47	57	58	60	69	64	68	.491	.508	.528	3.48	2.96	5.0	4.8	4.6	4.5
July	29.240	29.429	28.970	76.0	81.1	79.7	85.4	69.9	77.6	93	62	66	67	66	72	64	64	.641	.667	.649	3.05	.96	3.4	3.4	3.7	3.9
August	29.302	29.545	28.890	67.0	73.9	70.9	77.1	61.3	69.2	87	51	58	60	60	73	63	70	.484	.519	.526	4.30	1.98	4.3	4.8	4.4	4.5
September	29.233	29.540	28.706	66.6	72.2	69.5	76.2	62.0	69.1	85	51	59	61	60	78	69	72	.516	.553	.528	3.24	1.50	4.8	5.6	4.1	5.0
October	29.190	29.690	28.770	50.2	57.2	53.5	60.9	46.1	53.5	74	35	41	44	42	71	64	68	.264	.299	.279	3.57	1.24	6.0	5.8	4.5	5.2
November	29.258	29.750	28.890	40.5	41.8	41.2	46.1	36.2	41.2	70	26	36	36	36	83	80	82	.219	.221	.217	5.21	1.46	8.8	9.2	8.5	9.1
December	29.214	29.710	28.520	31.9	33.2	32.8	37.5	27.2	32.4	60	13	25	26	24	74	73	70	.135	.145	.138	1.33	.46	9.2	8.3	7.7	8.3
Year	29.254	30.140	28.520	51.0	55.4	53.6	59.9	45.5	52.7	93	4	43	44	44	75	69	72	.325	.345	.340	35.92	2.96	6.4	6.4	5.6	6.2

ESCANABA, MICH.

[ϕ=45° 48′ N.; λ=87° 05′ W.]

January	29.406	30.219	28.620	19.9	25.3	24.8	29.5	16.4	23.0	47	−1	17	18	20	86	71	80	0.098	0.101	0.111	0.89	0.44	6.0	6.2	5.5	6.2
February	29.345	29.980	28.613	18.3	26.3	25.5	30.2	13.8	22.0	48	−2	16	19	20	88	72	78	.094	.104	.111	1.20	.50	7.3	6.8	6.4	6.7
March	29.336	30.160	28.690	27.6	30.8	30.4	36.0	23.0	29.5	57	9	24	23	23	83	72	74	.134	.129	.130	2.91	1.46	7.5	6.8	6.1	7.0
April	29.286	29.810	28.580	39.1	45.0	43.3	50.2	34.9	42.6	67	24	34	33	34	81	66	72	.201	.199	.206	3.41	1.83	4.8	5.0	4.1	4.5
May	29.377	29.670	28.980	49.6	55.0	54.7	59.5	45.1	52.3	74	29	44	43	42	81	66	64	.303	.299	.289	1.99	.77	5.0	5.8	4.8	4.9
June	29.325	29.820	29.020	63.0	68.7	67.8	73.4	57.3	65.4	89	37	55	57	58	75	67	71	.447	.481	.501	1.13	.41	3.7	4.0	4.7	3.8
July	29.312	29.560	28.930	71.0	77.9	76.0	82.0	65.6	73.8	92	49	64	64	64	79	64	68	.606	.618	.613	1.91	.67	3.3	4.0	4.2	3.6
August	29.351	29.706	28.980	60.8	68.5	67.0	72.0	57.1	64.6	80	47	55	58	58	82	70	74	.445	.491	.494	4.97	3.87	3.8	3.5	4.7	4.4
September	29.252	29.690	28.790	57.6	67.7	64.4	70.8	54.0	62.4	82	42	53	53	54	85	62	70	.420	.425	.437	4.58	1.71	3.3	4.5	4.0	4.5
October	29.265	29.580	28.800	43.4	51.2	48.8	53.7	40.8	47.2	70	30	39	40	41	87	68	76	.247	.259	.264	1.51	.77	6.5	6.5	4.1	6.5
November	29.385	29.870	28.995	27.9	33.2	31.9	36.0	24.4	30.2	49	5	25	26	25	87	74	75	.135	.139	.137	2.38	.74	7.8	8.7	7.9	8.6
December	29.305	29.809	28.420	21.0	24.8	23.5	28.7	16.6	22.6	43	−5	18	19	18	87	76	79	.103	.104	.106	2.54	1.00	7.9	7.0	7.0	7.1
Year	29.329	30.219	28.420	41.6	47.9	46.5	51.8	37.4	44.6	92	−5	37	38	38	83	69	73	.269	.279	.283	29.42	3.87	5.6	5.7	5.3	5.6

EUREKA, CALIF.

[ϕ=40° 48′ N.; λ=124° 11′ W.]

January	30.038	30.500	29.483	43.6	49.3	49.0	51.7	39.6	45.6	58	29	41	46	45	90	88	88	0.257	0.312	0.304	8.37	1.62	6.3	7.5	6.9	7.2
February	30.133	30.460	29.580	45.4	50.8	49.9	53.5	42.0	47.8	61	33	43	48	47	92	90	89	.285	.334	.324	7.45	3.22	6.9	7.9	7.8	7.9
March	30.044	30.323	29.520	47.3	51.9	51.5	54.1	45.6	49.8	63	39	44	47	45	89	83	80	.289	.319	.302	3.04	.82	7.8	7.0	7.6	7.6
April	30.113	30.410	29.770	44.8	52.0	51.0	53.9	43.0	48.4	59	36	43	47	46	92	84	84	.275	.324	.312	1.67	.57	6.6	5.7	6.7	6.1
May	29.983	30.177	29.660	48.1	52.6	52.6	55.0	46.6	50.8	60	40	45	48	47	90	84	81	.303	.332	.320	2.54	1.36	7.6	6.6	6.9	7.1
June	29.999	30.171	29.756	53.1	59.6	59.6	62.4	51.9	57.2	69	46	50	52	52	91	78	77	.369	.396	.394	1.30	.54	8.6	5.7	6.4	6.3
July	30.018	30.126	29.900	50.6	55.1	55.5	57.5	50.1	53.8	62	46	48	49	49	91	80	78	.334	.350	.347	.00	.00	8.1	5.3	4.0	5.7
August	29.999	30.110	29.836	52.8	57.3	57.1	59.9	51.8	55.8	70	48	51	52	52	93	83	82	.369	.390	.383	.01	.01	8.1	6.8	5.0	6.3
September	29.963	30.160	29.730	51.5	58.8	59.4	61.6	49.3	55.4	70	43	49	51	51	91	76	74	.347	.380	.375	.27	.11	5.1	2.4	2.0	3.3
October	30.003	30.390	29.680	51.2	57.8	56.1	60.1	48.9	54.5	71	42	49	51	51	92	79	84	.347	.379	.380	1.59	1.20	4.5	7.2	6.4	7.2
November	30.076	30.370	29.750	49.2	54.6	54.0	57.5	46.6	52.0	77	33	46	48	48	89	80	82	.312	.342	.345	6.21	1.30	5.7	6.9	6.0	7.7
December	30.006	30.564	29.450	45.6	52.4	50.4	54.5	42.4	48.4	65	36	42	44	44	86	74	81	.265	.292	.297	4.48	1.47	4.8	6.6	6.5	7.0
Year	30.031	30.564	29.450	48.6	54.4	53.8	56.8	46.5	51.6	77	29	46	49	48	90	82	82	.313	.346	.340	36.93	3.22	6.7	6.3	6.0	6.6

EVANSVILLE, IND.

[ϕ=37° 58′ N.; λ=87° 33′ W.]

January	29.728	30.299	29.170	35.3	42.1	41.3	46.1	32.6	39.4	63	18	29	31	32	77	65	69	0.169	0.185	0.190	1.80	0.54	6.7	7.1	6.3	7.0
February	29.618	30.120	29.120	36.1	42.7	42.8	46.9	33.2	40.0	71	21	30	33	33	79	68	69	.179	.198	.194	4.69	1.62	6.8	7.0	6.0	6.8
March	29.618	30.090	29.191	49.1	59.4	59.1	65.4	45.8	55.6	80	25	41	44	44	76	57	58	.283	.308	.305	4.52	1.12	6.0	5.9	4.9	5.6
April	29.577	30.052	29.600	53.3	64.4	62.3	68.8	48.8	58.8	86	32	43	43	44	69	48	53	.297	.304	.304	3.42	1.18	4.7	5.0	5.4	5.4
May	29.563	29.850	29.120	62.8	74.5	72.3	77.7	58.5	68.1	93	39	52	50	53	71	45	52	.422	.386	.419	1.56	0.97	4.0	4.3	4.6	5.0
June	29.521	29.790	29.306	74.4	86.5	81.6	89.8	70.1	80.0	96	55	66	64	66	76	49	61	.651	.613	.652	2.44	0.68	4.2	4.9	6.6	5.5
July	29.547	29.780	29.350	77.5	90.7	86.8	94.2	73.9	84.0	101	67	67	65	65	71	44	50	.668	.625	.627	2.45	1.45	3.3	4.4	4.3	4.8
August	29.597	29.770	29.400	71.6	82.5	80.2	86.0	68.1	77.0	96	59	64	63	66	79	54	62	.617	.597	.647	5.26	2.21	4.5	5.4	3.0	4.9
September	29.566	29.729	29.300	70.0	80.4	76.9	84.5	66.7	75.6	93	53	65	65	66	84	61	70	.628	.631	.646	3.87	1.09	5.9	6.5	5.3	6.3
October	29.565	30.050	29.260	51.1	65.7	61.7	69.1	48.2	58.6	83	37	44	42	43	78	44	53	.298	.278	.290	2.03	.61	2.7	3.3	2.7	3.2
November	29.602	29.998	29.290	45.5	53.1	51.6	58.2	41.2	49.7	72	26	40	40	40	82	63	65	.269	.265	.259	9.24	3.52	6.3	6.0	5.4	6.1
December	29.630	30.060	28.980	37.9	43.1	42.0	47.9	34.0	41.0	63	26	31	32	32	76	66	69	.179	.183	.188	5.18	2.55	6.6	6.4	5.5	6.8
Year	29.594	30.299	28.980	55.4	65.4	63.2	69.6	51.8	60.6	101	18	48	48	49	76	55	61	.388	.381	.393	46.46	3.52	5.1	5.5	5.0	5.6

Annual meteorological summary for the year ending December 31, 1921—Continued.

ERIE, PA.

[H_b=714 ft.; h_t=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	16.9	NW.	54	W.	7	1	7	2	3	14	13	6	16	0	6	2	23	18	11	12	9	0	1	10	0	23	0	0
February	13.7	NE.	47	W.	3	4	11	1	6	11	8	8	7	0	1	7	20	12	9	15	9	0	1	6	0	25	0	0
March	16.3	S.	46	SW.	7	5	9	0	5	14	8	9	11	0	3	9	19	18	15	7	3	1	2	2	0	12	6	0
April	14.3	S.	42	NE.	3	4	6	1	4	16	7	12	10	0	9	7	14	15	12	3	2	0	0	0	0	5	3	0
May	12.3	NE.	50	SE.	2	2	18	0	8	7	5	14	8	0	11	11	9	6	6	0	0	0	0	0	0	0	6	1
June	10.6	NE.	37	W.	0	8	17	1	4	7	6	9	8	0	10	16	4	4	4	0	0	0	0	0	0	0	6	0
July	9.3	NW.	36	S.	0	12	7	2	3	13	12	4	9	0	15	12	4	8	6	0	0	0	0	0	8	0	8	0
August	12.5	S.	48	W.	2	7	6	2	9	14	6	8	10	0	13	13	5	9	7	0	0	1	0	0	0	0	2	0
September	12.8	W.	54	SW.	1	7	1	3	10	10	10	10	9	0	9	13	8	12	11	0	0	0	0	0	0	0	5	0
October	15.6	SW.	50	SE.	1	3	3	2	8	16	14	4	12	0	11	9	11	11	10	3	2	0	0	0	0	0	3	0
November	14.7	NE.	53	NE.	1	2	15	3	6	12	8	2	12	0	0	4	26	17	13	8	4	0	1	0	0	5	3	0
December	15.7	NW.	59	SW.	4	5	5	2	6	14	10	6	14	0	1	8	22	12	7	20	7	0	0	8	0	25	0	0
Year	13.7	S.	59	SW.	31	60	105	19	72	148	107	92	126	0	80	111	165	142	111	68	36	2	5	26	8	95	42	1

ESCANABA, MICH.

[H_b=612 ft.; h_t=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	9.3	NW.	30	N.	0	6	6	1	2	8	14	9	16	0	9	8	14	9	6	17	6	0	1	18	0	30	0	0
February	8.2	S.	30	SW.	0	9	7	1	4	11	7	7	9	1	6	9	13	6	6	20	6	0	6	17	0	28	0	0
March	10.2	S.	31	S.	0	9	11	6	5	10	5	4	12	0	6	7	18	13	8	14	5	1	4	6	0	25	3	0
April	12.3	S.	40	S.	1	13	5	7	2	14	11	5	3	0	16	6	8	10	8	4	0	0	2	1	0	9	4	0
May	9.8	N.	35	NE.	0	20	7	7	2	7	7	2	8	2	11	12	8	10	7	3	1	2	4	0	0	3	9	1
June	7.4	S.	34	N.	0	9	7	7	3	22	6	3	1	2	19	5	6	6	5	0	0	0	0	0	0	0	7	0
July	8.1	S.	42	NE.	1	11	8	1	3	23	9	5	2	0	19	9	3	13	9	0	0	0	0	0	2	0	12	0
August	9.0	S.	25	NW.	0	11	7	1	1	17	14	4	7	0	15	8	8	7	6	0	0	0	3	0	0	0	5	2
September	9.7	S.	30	NW.	0	6	5	2	7	8	13	9	10	0	16	6	8	14	12	0	0	0	4	0	0	0	8	3
October	9.7	NW.	36	N.	0	9	5	5	4	6	12	6	14	1	6	11	14	10	5	4	0	1	2	0	0	2	4	2
November	9.4	NW.	38	SW.	0	12	10	1	0	2	10	7	18	0	2	3	25	15	12	17	11	0	0	9	0	26	0	1
December	9.8	NW.	36	N.	0	8	2	1	0	5	13	3	28	2	6	6	19	13	9	22	10	0	1	19	0	31	0	1
Year	9.4	S.	42	NE.	2	123	80	40	33	133	121	64	128	8	131	90	144	126	93	101	39	4	27	70	2	154	52	10

EUREKA, CALIF.

[H_b=62 ft.; h_t=73 ft.; h_r=65 ft.; h_a=80 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	8.0	SE.	43	N.	1	11	2	5	19	10	6	2	2	5	5	8	18	21	17	0	0	2	4	0	0	2	1	0
February	6.5	SE.	42	NW.	2	16	2	4	8	3	8	6	2	7	3	7	18	13	10	0	0	1	5	0	0	0	0	0
March	7.8	N.	37	N.	0	20	3	0	11	6	5	2	6	9	4	4	23	16	10	0	0	0	2	0	0	0	1	0
April	8.8	N.	41	NW.	2	16	7	3	10	2	8	2	6	6	9	6	15	11	8	0	0	0	0	0	0	0	0	0
May	7.2	N.	33	N.	0	23	2	2	6	2	6	4	11	6	3	12	16	8	7	0	0	0	1	0	0	0	0	0
June	6.2	N.	25	N.	0	15	5	1	5	3	3	6	13	9	7	10	13	6	6	0	0	0	0	0	0	0	0	0
July	7.2	NW.	39	N.	0	19	1	0	1	4	16	6	10	5	7	15	9	0	0	0	0	0	0	0	0	0	0	0
August	5.3	NW.	24	N.	0	9	0	1	3	5	10	9	18	7	6	10	15	1	0	0	0	0	2	0	0	0	0	0
September	5.9	NW.	38	N.	0	13	3	0	11	6	5	5	10	7	16	12	2	4	3	0	0	0	2	0	0	0	0	0
October	5.0	SE.	35	SE.	0	10	3	3	9	1	11	10	5	10	5	7	19	7	4	0	0	0	13	0	0	0	1	0
November	5.6	SE.	30	NW.	0	8	6	6	15	4	10	1	1	9	2	8	20	12	11	0	0	0	8	0	0	0	1	0
December	5.6	SE.	48	SW.	2	5	6	9	19	9	5	3	6	0	6	9	16	14	11	0	0	0	6	0	0	0	0	0
Year	6.6	N.	48	SW.	7	165	40	34	117	55	93	56	90	80	73	108	184	113	87	0	0	3	43	0	0	2	4	0

EVANSVILLE, IND.

[H_b=431 ft.; h_t=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	SW.	33	SW.	0	9	10	4	1	8	20	7	3	0	3	12	16	11	7	5	4	0	0	3	0	14	3	0
February	12.1	SW.	40	SW.	1	5	11	4	2	9	11	6	8	0	4	9	15	12	8	5	5	0	1	3	0	12	1	0
March	15.0	SW.	45	W.	5	9	8	4	7	10	19	1	4	0	6	19	6	17	15	1	0	0	1	0	0	4	7	0
April	13.5	SW.	42	SW.	3	8	3	2	6	18	13	4	6	0	8	13	9	11	7	1	0	0	0	0	0	0	3	0
May	9.8	N.	36	N.	0	9	14	10	5	1	14	6	3	0	8	17	6	5	3	0	0	0	0	0	5	0	1	2
June	9.2	SW.	38	NE.	0	2	8	6	4	7	19	11	2	1	3	23	4	11	10	0	0	0	0	0	19	0	15	0
July	7.9	SW.	54	W.	1	11	15	3	6	7	12	3	4	1	7	23	1	7	5	0	0	0	0	0	27	0	9	0
August	8.3	SW.	48	NW.	2	6	11	7	5	10	15	7	1	0	7	18	6	11	11	0	0	2	1	0	12	0	9	0
September	9.0	SW.	42	W.	2	2	10	4	2	11	20	7	3	1	3	22	5	12	11	0	0	0	2	0	6	0	14	0
October	10.7	SW.	40	S.	1	7	1	5	7	13	15	5	9	0	18	10	3	8	7	0	0	0	4	0	0	0	4	0
November	12.4	SW.	44	W.	4	10	7	3	5	11	14	4	6	0	8	8	14	13	11	2	0	0	0	0	0	3	5	0
December	12.9	SW.	46	W.	1	10	9	4	3	9	12	8	7	0	4	14	13	8	6	4	1	0	1	1	0	15	2	0
Year	11.1	SW.	54	W.	20	88	107	56	53	114	184	69	56	3	79	188	98	126	101	18	10	2	10	7	69	48	73	2

Annual meteorological summary for the year ending December 31, 1921—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	29.672	30.090	29.200	41.1	48.8	47.6	54.1	37.1	45.6	72	25	34	34	34	76	59	62	0.214	0.216	0.214	1.39	0.71	6.6	7.0	6.7	6.9
February	29.581	30.030	29.050	39.2	50.3	52.0	57.1	36.4	46.8	79	12	33	35	37	79	58	58	.194	.216	.229	3.03	1.75	4.3	4.9	4.0	4.1
March	29.529	30.090	29.180	54.4	65.6	64.0	70.7	50.8	60.8	87	30	48	51	50	80	61	64	.361	.403	.392	3.81	1.12	6.4	6.3	5.6	6.2
April	29.497	30.140	29.020	53.6	65.4	65.4	70.8	49.6	60.2	85	31	47	49	49	79	59	57	.336	.372	.364	5.40	1.78	5.2	5.0	4.7	4.9
May	29.509	29.763	29.170	63.8	77.9	77.4	82.3	60.5	71.4	94	42	56	59	58	77	53	52	.475	.519	.493	1.18	.56	5.2	5.5	5.3	5.2
June	29.446	29.640	29.150	73.2	83.7	80.1	87.6	69.6	78.6	95	66	69	70	69	87	64	71	.704	.723	.704	6.50	1.58	5.0	6.8	6.5	6.4
July	29.508	29.680	29.250	76.2	88.8	87.6	92.6	72.8	82.7	98	67	70	70	70	83	54	57	.746	.733	.736	3.15	2.13	4.1	5.1	4.3	4.1
August	29.523	29.660	29.306	75.2	88.0	85.9	92.5	72.9	82.7	101	68	72	71	71	88	60	63	.771	.767	.762	4.45	1.27	5.0	3.8	5.2	4.5
September	29.493	29.670	29.280	72.1	85.7	82.0	90.0	70.2	80.1	96	49	69	69	68	89	58	64	.707	.706	.696	1.24	.54	5.4	5.4	4.7	5.1
October	29.512	29.900	29.090	52.2	70.9	68.6	76.3	50.2	63.2	86	37	44	49	46	76	48	47	.301	.363	.329	.13	.07	2.4	3.3	1.6	2.5
November	29.570	29.900	29.190	46.9	59.5	58.6	65.4	43.0	54.2	82	29	40	43	43	78	58	60	.262	.297	.295	5.22	3.52	5.7	5.5	4.0	5.2
December	29.626	30.040	29.010	40.3	49.0	48.1	54.4	36.0	45.2	72	19	34	38	37	80	67	67	.208	.238	.226	2.23	1.53	6.3	6.7	4.1	6.4
Year	29.539	30.140	29.010	57.4	69.5	68.1	74.5	54.1	64.3	101	12	51	53	53	81	58	60	.440	.463	.453	37.73	3.52	5.1	5.4	4.7	5.1

FORT WAYNE, IND.

[ϕ=41° 05′ N.; λ=85° 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.
January	29.211	29.960	28.600	29.2	34.3	32.5	38.0	25.3	31.6	54	11	24	26	25	79	71	73	0.135	0.149	0.143	2.11	0.84	6.9	6.9	4.7	6.7
February	29.113	29.640	28.690	29.7	35.2	34.3	39.1	26.5	32.8	66	15	25	27	28	82	71	78	.138	.151	.158	.88	.46	7.1	7.9	6.7	8.2
March	29.131	29.750	28.520	40.8	49.4	48.7	56.3	35.2	45.8	76	17	36	38	38	83	67	66	.230	.254	.247	5.09	1.19	6.5	7.1	5.9	7.4
April	29.087	29.520	28.489	48.8	58.8	55.9	63.2	44.8	54.0	81	27	41	42	44	75	58	67	.271	.284	.308	3.14	.56	5.9	6.2	5.3	5.8
May	29.103	29.430	28.750	58.2	69.4	67.8	73.3	52.9	63.1	90	37	51	50	51	78	53	56	.395	.391	.393	2.54	1.02	4.7	4.7	5.2	5.0
June	29.086	29.470	28.790	68.6	80.1	76.8	83.6	62.6	73.1	91	43	60	61	62	75	54	62	.542	.559	.567	3.58	1.06	4.2	5.3	4.9	5.3
July	29.101	29.290	28.860	73.8	86.7	84.0	90.0	69.1	79.6	98	59	64	59	60	73	41	46	.610	.519	.528	1.00	.39	2.4	4.5	4.6	4.3
August	29.148	29.406	28.800	65.4	77.6	75.0	81.0	61.7	71.4	89	52	58	56	58	78	49	57	.500	.465	.499	4.05	2.06	5.3	5.0	4.4	5.2
September	29.095	29.390	28.640	63.6	75.4	71.4	78.4	59.5	69.0	89	46	59	59	60	85	60	69	.509	.522	.539	2.88	.61	5.0	5.6	4.6	5.7
October	29.060	29.520	28.650	48.0	58.4	54.9	62.4	44.9	53.6	79	34	43	48	47	84	70	76	.288	.334	.329	3.34	1.28	5.0	6.1	4.7	5.4
November	29.119	29.570	28.790	37.0	42.7	41.7	46.8	33.4	40.1	63	19	34	37	36	89	80	81	.210	.228	.224	3.54	1.45	6.7	7.8	7.7	8.2
December	29.098	29.550	28.350	30.8	34.5	33.3	38.2	26.5	32.4	60	12	26	27	29	82	73	82	.148	.153	.162	1.65	.51	7.8	7.5	7.5	8.0
Year	29.113	29.960	28.350	49.5	58.5	56.4	62.5	45.2	53.9	98	11	43	44	45	80	62	68	.331	.334	.341	33.80	2.06	5.6	6.2	5.5	6.3

FORT WORTH, TEX.

[ϕ=32° 43′ N.; λ=97° 15′ W.]

Month.	Pressure.			Temperature.								Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	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	29.434	29.820	29.070	45.6	55.1	56.1	61.0	41.8	51.4	81	28	39	40	40	77	59	60	0.261	0.264	0.268	2.87	1.82	5.2	5.8	5.4	5.6
February	29.342	29.680	28.770	43.4	56.3	56.8	62.9	41.1	52.0	80	29	37	41	40	78	60	57	.227	.272	.258	2.62	1.87	4.2	5.1	3.4	4.5
March	29.283	29.820	28.870	56.4	66.7	66.8	73.0	53.8	63.0	87	34	52	55	52	86	69	61	.417	.472	.422	2.67	.97	5.7	6.3	4.8	6.1
April	29.243	29.840	28.757	54.2	68.0	68.7	73.6	52.0	62.8	83	35	48	52	47	81	58	50	.358	.408	.351	1.90	.75	4.6	4.4	3.6	4.3
May	29.245	29.500	28.970	64.9	78.8	79.0	83.5	63.3	73.4	93	47	59	60	58	81	55	50	.504	.539	.492	1.04	.58	4.2	4.4	4.7	4.4
June	29.191	29.370	29.010	71.6	83.4	82.0	87.5	70.1	78.8	93	64	68	68	67	88	61	62	.681	.687	.657	2.63	1.00	4.9	4.9	4.6	5.5
July	29.252	29.410	28.951	75.0	87.8	89.2	93.0	73.9	83.4	97	70	70	71	67	85	58	49	.733	.760	.660	1.14	1.05	3.8	4.7	2.7	4.0
August	29.261	29.420	29.070	76.3	92.5	91.8	97.2	75.7	86.4	102	68	68	66	62	75	43	40	.679	.640	.567	.95	.45	3.3	3.4	3.4	3.4
September	29.237	29.400	29.050	73.1	86.9	85.3	91.3	72.5	81.9	96	56	68	67	64	84	54	52	.697	.679	.617	.11	.10	4.0	4.6	3.0	4.1
October	29.276	29.670	28.900	57.3	74.9	73.0	80.4	55.4	67.9	94	39	48	50	47	72	44	42	.348	.384	.349	.31	.24	2.4	1.7	1.7	1.7
November	29.325	29.620	28.910	53.0	66.8	66.0	73.8	49.4	61.6	86	33	44	47	44	72	52	48	.318	.346	.316	1.24	.99	3.4	3.5	3.3	3.5
December	29.383	29.760	28.820	43.8	56.2	56.1	63.5	38.9	51.2	81	17	35	39	37	70	56	51	.217	.287	.242	.34	.20	4.3	4.5	3.5	4.1
Year	29.289	29.840	28.757	60.0	72.8	72.6	78.4	57.3	67.8	102	17	53	55	52	79	56	52	.453	.476	.433	17.91	1.87	4.2	4.4	3.7	4.3

FRESNO, CALIF.

[ϕ=36° 43′ N.; λ=119° 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	29.794	30.160	29.250	41.0	50.3	51.4	54.3	38.6	46.4	67	30	37	40	41	85	68	68	0.220	0.249	0.257	2.63	0.81	4.8	6.4	5.8	5.8
February	29.793	30.070	29.370	44.0	56.7	59.1	61.8	41.2	51.5	79	33	41	43	44	89	62	50	.261	.283	.293	.61	.40	1.1	4.4	3.6	3.8
March	29.693	30.020	29.360	48.2	63.0	65.4	67.4	46.3	56.8	82	39	45	45	46	88	54	51	.298	.300	.310	1.05	.30	3.2	6.2	4.5	4.8
April	29.660	29.880	29.400	47.7	67.2	70.7	72.6	45.7	59.2	90	36	41	37	34	77	34	28	.258	.226	.206	.15	.09	1.3	2.9	2.5	2.2
May	29.566	29.770	29.260	52.6	70.3	74.4	75.9	51.3	63.6	94	42	43	42	40	72	39	32	.287	.277	.256	.69	.35	3.2	3.7	2.8	2.9
June	29.516	29.760	29.226	61.5	84.0	89.9	91.0	61.0	76.0	107	50	48	47	44	62	29	21	.338	.333	.288	.01	.01	1.0	1.1	1.7	1.3
July	29.498	29.640	29.330	68.0	92.9	99.5	100.7	67.1	83.9	110	60	46	44	38	48	19	12	.310	.289	.231	.09	.00	.5	1.0	.9	.8
August	29.539	29.720	29.424	64.4	89.0	95.4	96.8	63.0	79.9	104	57	44	42	37	50	20	14	.296	.299	.223	.09	.00	.2	.3	.4	.3
September	29.527	29.750	29.260	59.0	81.9	86.1	88.1	57.4	72.8	99	49	45	44	40	61	28	22	.300	.289	.254	.21	.21	.4	.1	1.3	.8
October	29.633	30.060	29.285	55.0	74.4	77.4	80.3	52.8	66.6	92	42	46	46	45	72	38	33	.317	.317	.302	T.	T.	.8	2.6	2.5	2.4
November	29.753	30.030	29.477	47.8	64.4	65.9	68.8	45.1	57.0	85	32	36	37	37	65	40	39	.213	.224	.227	.26	.20	2.1	3.7	2.5	3.1
December	29.731	30.050	29.260	44.5	54.9	55.6	59.6	41.9	50.4	66	31	41	43	44	87	65	66	.261	.277	.290	3.47	1.03	4.2	5.5	5.1	5.2
Year	29.642	30.160	29.250	52.8	70.8	74.2	76.4	51.0	63.7	110	30	43	42	41	71	41	37	.280	.278	.261	9.08	1.03	1.9	3.2	2.8	2.8

Annual meteorological summary for the year ending December 31, 1921—Continued.

FORT SMITH, ARK.

[H_b=457 ft.; h_t=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	8.9	E.	38	SW.	0	4	7	24	6	2	8	4	6	1	8	5	18	9	4	3	3	0	0	0	0	8	0	0
February	8.5	E.	42	SW.	2	3	2	20	2	5	9	9	6	0	17	3	8	6	4	2	2	0	0	0	0	8	2	0
March	9.8	E.	34	S.	0	5	2	26	2	12	8	2	5	0	7	8	16	11	10	0	0	0	0	0	0	1	6	0
April	8.7	E.	34	W.	0	0	5	22	9	5	5	4	10	0	15	5	10	11	10	0	0	1	1	0	0	1	5	0
May	7.0	E.	34	SW.	0	4	11	28	5	6	3	3	2	0	9	15	7	7	5	0	0	1	0	0	9	0	6	0
June	6.5	E.	39	W.	0	2	3	30	6	11	3	2	3	0	7	7	16	16	14	0	0	0	0	0	10	0	13	0
July	5.7	E.	42	NW.	1	3	5	29	3	6	8	4	2	2	13	14	4	7	3	0	0	0	1	0	26	0	5	0
August	6.3	E.	51	W.	1	2	0	36	7	9	4	3	1	0	12	11	8	10	8	0	0	0	0	0	25	0	8	0
September	6.8	E.	29	S.	0	3	5	26	17	6	2	1	0	0	10	11	9	8	4	0	0	0	0	0	18	0	3	0
October	8.3	E.	42	SW.	1	10	1	20	10	2	7	3	3	0	21	7	3	3	2	0	0	0	0	0	0	0	2	0
November	7.7	E.	40	W.	1	5	3	28	3	3	7	3	8	0	13	5	12	7	4	0	0	0	1	0	0	3	3	0
December	9.2	E.	39	SW.	0	2	4	25	2	2	10	5	12	0	8	8	15	4	3	1	0	0	0	1	0	5	1	0
Year	7.8	E.	51	W.	6	43	48	320	72	69	74	43	58	3	140	99	126	99	71	6	5	2	3	1	86	26	54	0

FORT WAYNE, IND.

[H_b=856 ft.; h_t=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	10.8	SW.	38	W.	0	4	8	5	3	7	22	5	8	0	6	8	17	11	10	12	5	0	2	8	0	23	0	0
February	10.2	W.	35	W.	0	3	5	11	3	4	10	14	6	0	2	6	20	9	6	13	5	0	3	3	0	25	0	0
March	11.5	SW.	40	SW.	1	3	4	13	5	5	18	1	13	0	4	9	18	16	12	3	0	0	2	0	0	11	7	0
April	11.2	SW.	38	SW.	0	6	5	1	4	19	14	6	5	0	10	4	16	15	12	3	3	0	0	0	0	6	2	0
May	8.2	N.	30	SW.	0	10	6	11	7	4	11	5	2	0	10	14	7	11	8	0	0	0	0	0	1	0	8	1
June	7.4	E.	44	SW.	1	4	8	12	10	7	8	8	3	0	10	12	8	10	10	0	0	1	0	0	3	0	10	0
July	6.8	SW.	31	SW.	0	5	15	5	3	8	14	3	9	0	9	20	2	5	4	0	0	0	0	0	18	0	5	0
August	7.7	SW.	34	NW.	0	5	6	11	6	6	18	5	4	1	11	12	8	10	8	0	0	0	0	0	0	0	5	0
September	8.1	SW.	35	SW.	0	7	3	5	7	6	18	7	7	0	6	16	8	12	12	0	0	0	1	0	0	0	9	0
October	10.3	SW.	29	W.	0	3	2	8	2	11	20	10	6	0	10	11	10	10	7	1	0	0	3	0	0	0	2	0
November	9.5	SW.	38	SW.	0	10	8	5	6	9	13	1	8	0	1	8	21	14	12	4	4	0	5	0	0	18	1	0
December	10.6	SW.	42	SW.	2	6	7	3	4	6	19	9	8	0	4	5	22	13	12	13	8	0	0	5	0	24	0	0
Year	9.4	SW.	44	SW.	4	72	77	90	60	92	185	74	79	1	83	125	157	136	113	49	25	1	16	16	22	107	49	1

FORT WORTH, TEX.

[H_b=670 ft.; h_t=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	10.7	NW.	31	S.	0	8	4	2	11	11	8	8	10	0	9	10	12	5	4	2	1	0	0	0	0	6	0	0
February	10.9	NW.	35	S.	0	3	9	4	6	10	6	6	12	0	11	7	10	4	3	1	0	0	0	0	0	4	3	0
March	12.3	S.	36	S.	0	4	4	2	9	26	7	0	9	1	8	9	14	7	6	0	0	1	3	0	0	0	5	0
April	12.5	S.	42	NW.	1	1	4	3	12	13	4	11	11	1	13	11	6	6	5	0	0	1	0	0	0	0	7	0
May	9.8	S.	40	NW.	1	0	12	8	16	17	7	1	1	0	14	13	4	6	5	0	0	1	0	0	6	0	8	0
June	9.8	S.	37	NW.	0	1	2	13	11	19	7	2	5	0	7	14	9	9	8	0	0	0	0	0	14	0	7	0
July	10.0	S.	27	SW.	0	2	7	6	18	16	8	2	3	0	13	13	5	5	3	0	0	0	0	0	26	0	2	0
August	9.1	S.	25	SE.	0	1	1	7	23	14	16	0	0	0	18	9	4	4	4	0	0	0	0	0	29	0	6	0
September	11.1	S.	28	SW.	0	4	1	3	14	27	11	0	0	0	13	14	3	3	1	0	0	0	0	0	22	0	2	0
October	10.0	S.	35	NW.	0	2	6	2	17	12	8	5	9	1	25	5	1	3	2	0	0	0	0	0	3	0	2	0
November	9.6	SW.	34	SW.	0	2	3	2	7	16	14	4	12	0	17	7	6	3	3	0	0	0	0	0	0	0	4	0
December	9.8	NW.	38	NW.	0	8	7	4	5	6	9	6	17	0	13	13	5	4	2	1	0	0	1	0	0	5	1	0
Year	10.5	S.	42	NW.	2	36	60	56	149	187	105	45	89	3	161	125	79	59	46	4	1	3	4	0	100	15	47	0

FRESNO, CALIF.

[H_b=330 ft.; h_t=89 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	5.7	SE.	30	NW.	0	3	5	14	16	2	4	0	12	6	10	6	15	10	9	0	0	0	5	0	0	5	0	0
February	4.8	NW.	33	NW.	0	0	5	9	1	1	3	2	27	8	14	6	8	5	3	0	0	0	5	0	0	0	0	0
March	6.6	NW.	28	NW.	0	3	4	4	8	0	1	1	37	4	11	14	6	6	4	0	0	0	1	0	0	0	1	0
April	8.7	NW.	35	NW.	0	1	1	3	2	0	1	4	46	2	21	6	3	2	2	0	0	0	0	0	0	0	0	0
May	8.3	NW.	31	NW.	0	1	1	8	4	0	1	2	40	5	18	8	5	6	5	0	0	0	0	0	4	0	3	1
June	10.8	NW.	31	NW.	0	1	1	1	0	0	1	0	56	0	25	4	1	1	0	0	0	0	0	0	18	0	1	0
July	8.2	NW.	25	NW.	0	2	0	0	0	0	4	3	50	3	27	3	1	0	0	0	0	0	0	0	31	0	0	0
August	8.2	NW.	22	NW.	0	1	0	0	0	0	1	3	56	1	30	1	0	0	0	0	0	0	0	0	30	0	0	0
September	6.7	NW.	22	NW.	0	2	0	2	1	0	1	3	49	2	27	2	1	1	1	0	0	0	0	0	13	0	1	0
October	5.6	NW.	28	NW.	0	0	6	7	2	1	5	5	32	4	20	9	2	0	0	0	0	0	0	0	3	0	1	0
November	4.2	NW.	36	NW.	0	2	2	18	1	1	2	4	23	7	18	7	5	1	1	0	0	0	1	0	0	1	0	0
December	5.6	NW.	24	SE.	0	1	3	15	16	1	3	3	17	8	14	8	14	13	10	0	0	0	2	0	0	1	0	0
Year	6.9	NW.	36	NW.	0	17	28	81	49	6	27	30	445	47	236	69	61	45	35	0	0	0	14	0	99	7	7	1

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1921—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	30.141	30.420	29.850	56.1	59.7	58.6	63.0	53.5	58.2	71	42	54	54	54	92	83	87	0.427	0.439	0.436	2.77	1.99	4.0	5.6	4.8	6.1
February	30.041	30.310	29.640	54.3	60.1	58.3	63.7	52.3	58.0	73	37	52	51	53	91	75	83	.399	.400	.416	.30	.11	4.1	4.4	3.8	4.5
March	30.005	30.310	29.740	65.5	69.9	68.2	72.3	63.6	68.0	77	44	64	64	64	93	81	87	.608	.601	.612	3.59	2.23	7.5	5.6	7.2	5.9
April	29.964	30.470	29.560	65.5	69.7	68.8	72.3	62.5	67.4	78	43	60	58	60	82	69	75	.536	.519	.541	2.47	.84	5.0	4.2	4.8	4.8
May	29.942	30.160	29.650	72.6	76.6	75.2	79.0	70.5	74.8	88	61	66	66	65	80	69	72	.647	.643	.631	2.04	1.96	4.7	3.7	3.5	4.1
June	29.891	30.040	29.570	79.1	82.8	80.5	85.0	76.3	80.6	92	69	73	73	72	82	72	76	.811	.804	.794	4.97	2.66	5.1	5.1	5.7	5.6
July	29.960	30.116	29.740	79.8	83.9	82.5	86.4	77.9	82.2	93	71	74	74	74	83	72	77	.846	.834	.852	5.77	3.43	4.6	4.4	4.1	4.7
August	29.988	30.130	29.880	81.0	85.7	83.7	87.9	79.3	83.6	96	73	74	72	73	79	65	71	.833	.795	.816	1.42	.42	3.8	3.5	3.6	4.0
September	29.945	30.100	29.830	81.3	84.3	81.6	86.3	78.8	82.6	89	67	74	73	74	77	70	77	.824	.821	.825	8.37	4.81	4.5	4.9	5.2	5.1
October	29.962	30.240	29.690	68.4	74.5	73.2	77.4	66.9	72.2	86	53	60	59	60	76	61	66	.542	.530	.551	3.83	.66	1.9	2.3	1.9	2.1
November	30.043	30.250	29.690	64.1	69.9	68.9	73.1	62.3	67.7	80	49	59	59	60	84	70	76	.529	.533	.552	1.61	*2.11	4.3	3.6	3.3	4.0
December	30.075	30.370	29.640	57.2	62.3	61.3	67.2	53.3	60.2	77	38	54	55	55	90	79	82	.448	.463	.463	2.76	1.56	4.9	4.4	3.2	5.4
Year	29.996	30.470	29.560	68.7	73.3	71.7	76.1	66.4	71.3	96	37	64	63	64	84	72	77	.621	.615	.624	39.90	4.81	4.5	4.3	4.3	4.7

*Nov. 30–Dec. 1.

GRAND HAVEN, MICH.

[φ=43° 05′ N.; λ=86° 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	29.421	30.215	28.760	28.2	31.5	29.9	34.8	23.5	29.2	48	9	24	25	24	82	75	76	0.134	0.139	0.132	0.69	0.22	7.1	6.2	6.8	6.6
February	29.336	29.860	28.834	27.0	30.8	31.2	35.2	23.5	29.4	62	8	23	24	26	84	76	78	.128	.134	.141	1.03	.35	8.0	7.8	7.1	7.5
March	29.333	30.060	28.630	35.2	40.0	39.4	46.9	29.9	38.4	67	15	31	34	33	86	77	78	.186	.202	.200	4.85	1.12	7.8	7.3	7.3	7.4
April	29.285	29.750	28.660	46.4	50.7	51.0	56.7	40.8	48.8	76	24	39	40	39	77	68	67	.254	.260	.257	4.34	1.26	6.0	6.9	6.3	5.8
May	29.337	29.614	29.070	55.0	62.1	61.8	67.4	49.3	58.4	84	32	46	46	47	73	59	62	.333	.338	.352	1.25	.46	5.1	5.4	5.9	4.8
June	29.306	29.729	29.041	67.5	74.4	73.6	79.0	60.6	69.8	87	40	57	58	59	71	58	62	.491	.506	.521	1.99	1.06	5.5	4.9	5.9	4.9
July	29.311	29.520	29.030	74.1	79.6	78.8	83.5	66.4	75.0	94	53	65	65	62	73	62	59	.021	.624	.574	.92	.68	2.5	4.2	3.9	3.5
August	29.358	29.690	28.950	64.6	72.2	69.4	75.1	59.8	67.4	86	46	59	59	59	83	66	72	.509	.515	.517	5.80	2.00	5.4	4.7	4.7	5.0
September	29.282	29.615	28.870	63.5	70.3	67.5	73.3	58.2	65.8	83	44	58	59	59	82	68	76	.495	.512	.520	4.07	2.43	5.6	5.2	4.7	4.8
October	29.251	29.631	28.840	49.6	55.4	52.7	58.3	45.4	51.8	68	32	44	44	45	81	66	75	.288	.296	.307	4.99	1.48	5.2	5.5	4.2	5.4
November	29.356	29.775	28.980	34.5	39.0	36.9	41.4	31.1	36.2	56	18	30	30	30	83	72	77	.168	.173	.170	2.96	1.32	8.9	8.8	7.5	8.5
December	29.305	29.800	28.520	29.3	31.5	31.2	36.3	25.0	30.6	54	6	24	26	26	80	80	79	.133	.145	.145	3.56	1.19	9.4	8.7	7.6	9.0
Year	29.323	30.215	28.520	47.9	53.1	52.0	57.3	42.8	50.1	94	6	42	42	42	80	69	72	.312	.320	.320	36.45	2.43	6.4	6.3	6.0	6.1

GRAND JUNCTION, COLO.

[φ=39° 40′ N.; λ=108° 34′ 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	25.463	25.800	25.050	24.1	36.1	35.6	40.9	21.2	31.0	58	5	20	21	22	84	53	55	0.108	0.114	0.115	0.21	0.10	3.9	5.6	6.3	5.3
February	25.433	25.890	24.840	29.9	42.9	45.0	49.7	26.7	38.2	68	16	23	22	22	74	44	40	.122	.118	.116	.32	.21	4.3	5.5	5.1	5.1
March	25.339	25.790	24.850	37.5	52.7	54.8	58.6	33.8	46.2	75	23	28	27	26	68	40	35	.153	.153	.146	.28	.10	4.5	6.6	6.1	6.3
April	25.273	25.650	24.690	39.7	55.8	57.0	61.3	36.6	49.0	76	23	28	26	26	66	36	34	.156	.141	.142	1.16	.43	5.7	6.7	6.9	6.3
May	25.269	25.450	25.070	51.9	69.1	70.9	74.2	48.9	61.6	89	38	34	31	30	55	28	27	.203	.175	.176	1.12	.40	5.6	5.5	6.0	5.7
June	25.327	25.540	25.010	60.2	80.0	82.1	85.6	58.4	72.0	98	42	42	41	40	54	29	26	.277	.270	.256	.63	.31	3.3	4.8	5.8	4.5
July	25.415	25.630	24.940	65.3	83.6	84.9	90.3	63.1	76.7	98	47	51	49	48	62	33	32	.388	.363	.354	1.38	.51	4.1	4.2	6.0	4.8
August	25.460	25.600	25.288	62.1	79.8	80.4	85.0	61.0	73.0	95	56	52	53	51	71	42	40	.389	.408	.386	3.65	1.59	3.7	5.2	6.1	5.2
September	25.361	25.590	25.140	55.0	76.9	78.7	82.5	52.7	67.6	91	40	36	38	36	51	25	22	.223	.233	.220	.04	.04	2.0	2.4	1.9	2.0
October	25.450	25.830	25.010	46.3	65.8	65.2	71.5	44.3	58.0	83	27	33	35	37	62	35	38	.192	.205	.220	.66	.42	3.6	3.5	2.6	3.3
November	25.451	25.750	24.937	32.5	50.3	48.4	55.4	29.5	42.4	66	20	24	24	26	71	38	44	.125	.131	.142	.42	.30	3.0	5.2	5.2	4.5
December	25.487	25.860	24.850	30.0	41.2	39.3	45.5	27.1	36.3	61	15	25	26	27	82	57	63	.138	.148	.154	.74	.29	4.4	6.0	5.6	5.5
Year	25.394	25.890	24.690	44.5	61.2	61.9	66.7	41.9	54.3	98	5	33	33	33	67	38	38	.206	.205	.202	10.61	1.59	4.0	5.1	5.3	4.9

GRAND RAPIDS, MICH.

[φ=42° 58′ N.; λ=85° 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	29.344	30.130	28.660	28.3	33.4	30.0	36.4	24.6	30.5	52	11	22	23	23	76	65	72	0.127	0.132	0.127	0.59	0.21	7.2	7.0	6.4	6.4
February	29.261	29.790	28.780	27.7	32.1	31.2	35.6	24.4	30.0	59	12	23	23	24	82	68	73	.128	.125	.131	1.13	.30	7.7	7.5	5.7	7.3
March	29.264	29.980	28.590	37.1	44.6	42.3	50.9	31.2	41.0	75	17	31	33	32	77	66	69	.188	.211	.203	4.77	.93	8.0	7.5	6.6	7.5
April	29.216	29.650	28.610	48.2	57.2	54.6	61.5	43.8	52.6	81	25	39	40	41	72	55	62	.254	.266	.271	4.39	.96	6.2	7.2	6.6	6.7
May	29.262	29.550	28.980	57.4	68.9	66.3	72.7	51.7	62.2	90	34	46	46	50	67	47	58	.333	.341	.395	1.23	.55	5.5	5.0	5.8	5.7
June	29.234	29.606	28.950	68.7	80.2	77.1	84.2	62.0	73.4	93	41	58	58	60	69	48	58	.502	.503	.544	3.62	1.30	5.6	5.0	5.3	6.0
July	29.241	29.440	28.940	75.3	87.1	83.9	91.0	68.5	79.8	100	58	63	60	62	67	42	50	.588	.533	.575	2.38	1.10	2.7	4.5	4.4	4.7
August	29.236	29.620	28.890	65.6	76.4	72.7	79.8	61.4	70.6	90	49	58	58	59	76	54	64	.429	.492	.517	6.15	2.17	5.6	5.5	4.7	6.0
September	29.213	29.559	28.770	63.2	74.1	68.7	77.1	58.6	67.8	90	46	57	55	58	80	53	70	.480	.457	.498	4.32	2.10	5.7	4.8	5.1	5.4
October	29.185	29.590	28.790	47.2	57.1	52.8	59.5	44.1	52.0	72	34	42	43	44	84	61	74	.278	.282	.301	3.61	1.15	4.9	5.3	5.5	5.8
November	29.278	29.713	28.910	34.5	39.5	37.6	41.9	31.5	36.7	59	18	30	30	31	82	71	76	.167	.173	.177	3.04	2.17	7.7	9.2	7.2	9.1
December	29.222	29.710	28.430	28.8	31.3	30.7	35.5	25.0	30.2	54	8	24	24	25	81	73	78	.134	.131	.139	4.14	1.82	9.6	8.5	8.9	9.0
Year	29.251	30.130	28.430	48.5	56.8	54.0	60.5	44.0	52.2	100	8	41	41	42	76	59	67	.306	.304	.323	39.98	2.17	6.4	6.4	5.9	6.6

Annual meteorological summary for the year ending December 31, 1921—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.	0.01 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	11.6	SE.	37	NW.	0	5	5	17	16	5	4	2	7	1	9	9	13	6	5	0	0	0	11	0	0	0	2	0
February	11.6	SE.	33	NW.	0	7	7	3	23	2	3	6	5	0	13	5	10	5	3	0	0	0	3	0	0	0	1	0
March	12.6	SE.	34	NW.	0	5	4	6	35	7	2	0	2	1	6	11	14	7	6	0	0	1	4	0	0	0	4	0
April	13.7	SE.	52	SE.	2	8	5	4	33	4	2	1	3	0	10	10	10	10	5	0	0	0	0	0	0	0	6	0
May	10.2	SE.	34	S.	0	3	5	6	33	8	0	0	4	3	14	12	5	2	2	0	0	1	0	0	0	0	3	2
June	11.0	SE.	62	SE.	1	1	4	5	33	13	3	0	1	0	5	17	8	9	7	0	0	0	0	0	1	0	6	0
July	9.6	SE.	32	SE.	0	1	0	2	29	16	6	6	2	0	13	11	7	11	8	0	0	0	0	0	2	0	5	0
August	8.8	SE.	28	E.	0	4	4	4	24	15	4	3	3	1	17	13	1	8	7	0	0	0	0	0	3	0	5	0
September	10.4	SE.	30	SE.	0	1	2	9	43	3	0	1	1	0	12	10	8	9	7	0	0	0	0	0	0	0	7	0
October	9.1	NE.	36	W.	0	11	13	12	8	7	2	5	4	0	26	3	2	4	2	0	0	0	0	0	0	0	5	0
November	9.7	SE.	44	NW.	2	11	2	10	19	5	2	3	8	0	15	10	5	4	3	0	0	0	2	0	0	0	1	0
December	11.7	SE.	42	NW.	1	5	5	8	18	3	6	6	11	0	8	15	8	8	6	0	0	0	8	0	0	0	2	0
Year	10.8	SE.	62	SE.	6	62	56	86	314	88	34	33	51	6	148	126	91	83	61	0	0	2	28	0	6	0	47	2

GRAND HAVEN, MICH.

[H_b=632 ft.; h_t=54 ft.; h_r=49 ft.; h_a=89 ft.]

January	14.1	W.	68	W.	2	9	5	6	4	12	5	13	8	0	9	6	16	13	8	11	7	0	2	11	0	25	0	0
February	12.0	W.	51	W.	4	8	7	4	10	7	6	8	6	0	5	4	19	14	8	19	13	0	2	12	0	26	0	0
March	14.1	S.	45	S.	2	10	2	8	10	19	5	3	5	0	4	8	19	17	14	5	2	0	2	1	0	19	8	1
April	14.3	S.	38	S.	0	7	4	5	7	20	10	4	3	0	9	7	14	17	12	5	4	0	1	1	0	7	3	1
May	10.4	W.	29	W.	0	14	2	7	10	7	5	11	6	0	13	11	7	9	7	0	0	0	3	0	0	0	4	2
June	8.3	E.	50	SW.	1	6	2	14	4	9	9	10	6	0	9	17	4	6	6	0	0	0	0	0	0	0	5	0
July	8.9	S.	36	NW.	0	9	2	1	3	15	9	10	11	2	15	12	4	6	4	0	0	0	0	0	7	0	8	0
August	8.8	S.	37	NW.	0	5	5	3	3	13	9	12	12	0	10	12	9	13	11	0	0	0	1	0	0	0	7	1
September	11.0	S.	50	SW.	2	3	2	7	6	12	11	10	9	0	11	11	8	18	11	0	0	0	0	0	0	0	8	2
October	13.2	SW.	41	W.	1	14	7	10	5	6	11	4	5	0	10	12	9	16	14	1	1	1	0	0	0	0	3	0
November	11.3	N.	32	NW.	0	11	13	7	8	1	8	8	4	0	1	5	24	14	9	10	7	0	1	2	0	16	0	0
December	14.2	N.	64	W.	4	12	6	4	11	5	6	10	8	0	0	5	26	16	9	20	11	0	0	9	0	27	0	0
Year	11.7	S.	68	W.	16	108	57	76	81	126	94	103	83	2	96	110	159	159	113	71	45	1	12	36	7	120	46	7

GRAND JUNCTION, COLO.

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

January	4.5	SE.	30	S.	0	7	7	5	14	4	0	12	13	0	11	10	10	3	2	7	0	0	1	2	0	30	0	0
February	6.0	SE.	48	SW.	2	10	4	3	19	5	2	7	6	0	10	9	9	5	2	7	4	0	0	0	0	24	0	0
March	6.1	SE.	31	SW.	0	11	6	4	15	3	4	9	10	0	7	8	16	9	2	4	2	1	1	0	0	12	3	0
April	7.2	SE.	37	SW.	0	6	5	2	17	9	5	5	11	0	4	13	13	9	7	8	6	0	0	0	0	9	0	0
May	7.6	SE.	42	SW.	1	8	3	8	15	9	6	5	8	0	9	9	13	11	6	1	1	1	0	0	0	0	3	1
June	6.3	SE.	29	SE.	0	12	2	5	21	7	3	5	5	0	11	11	8	7	5	0	0	0	0	0	12	0	3	0
July	6.3	SE.	39	SE.	0	4	3	12	21	4	5	1	11	1	12	13	6	7	6	0	0	0	0	0	22	0	13	0
August	5.3	SE.	34	W.	0	6	2	4	24	8	5	4	9	0	9	15	7	13	10	0	0	0	0	0	9	0	13	0
September	6.1	SE.	32	S.	0	12	0	6	15	8	3	7	9	0	22	8	0	1	1	0	0	0	0	0	1	0	0	0
October	4.9	SE.	26	SE.	0	9	0	6	19	9	3	3	13	0	19	7	5	4	3	1	0	0	0	0	0	4	0	0
November	4.3	SE.	24	SW.	0	4	1	2	18	5	6	12	12	0	14	9	7	4	4	2	2	0	0	0	0	21	0	0
December	4.6	NW.	28	NW.	0	5	3	2	17	5	5	3	22	0	13	4	14	8	5	6	3	0	1	2	0	22	1	0
Year	5.8	SE.	48	SW.	3	94	36	50	215	76	47	73	129	1	141	116	108	81	53	36	18	2	3	4	44	122	36	1

GRAND RAPIDS, MICH.

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

January	7.2	W.	38	NW.	0	1	6	6	6	12	8	17	6	0	8	9	14	10	5	12	6	1	2	10	0	25	0	0
February	6.4	W.	28	W.	0	3	3	12	12	2	8	8	7	1	5	6	17	10	9	18	9	0	2	8	0	26	0	0
March	7.4	SE.	23	S.	0	1	4	7	13	7	10	10	9	1	3	10	18	15	12	5	1	0	1	0	0	17	7	0
April	6.6	S.	24	NW.	0	0	2	4	11	15	14	6	8	0	7	6	17	15	12	2	2	0	0	0	0	6	4	0
May	5.6	W.	25	W.	0	0	10	16	13	2	7	12	7	1	9	10	12	8	4	0	0	0	0	0	0	0	3	3
June	5.0	SE.	19	NE.	0	1	5	9	23	5	7	7	3	0	6	14	10	7	6	0	0	0	0	0	7	0	9	0
July	4.5	W.	21	NE.	0	2	7	4	7	7	10	10	12	3	12	14	5	6	6	0	0	1	0	0	18	0	9	0
August	4.4	SE.	26	NW.	0	0	3	6	16	9	9	5	10	4	7	13	11	11	10	0	0	0	0	0	1	0	7	0
September	5.4	SE.	25	W.	0	0	4	6	16	9	8	7	8	2	8	15	7	17	14	0	0	0	0	0	0	0	9	1
October	6.3	S.	26	W.	0	0	6	10	11	11	6	4	13	1	7	13	11	15	12	2	0	1	1	0	0	0	3	0
November	5.7	E.	23	W.	0	0	11	11	9	4	7	9	9	0	1	2	27	10	7	9	5	0	1	1	0	16	0	0
December	6.7	W.	38	W.	0	1	6	4	12	10	6	15	7	1	0	6	25	12	9	15	8	0	1	9	0	26	0	0
Year	5.9	W.	38	NW.	0	9	67	89	149	93	100	110	99	14	73	118	174	136	106	63	31	3	8	28	26	116	51	4

Annual meteorological summary for the year ending December 31, 1921—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	29.423	30.192	28.686	21.8	26.4	26.1	29.9	18.3	24.1	44	0	18	17	18	82	66	70	0.102	0.101	0.106	0.50	0.19	6.0	6.8	6.5	7.5
February	29.344	29.970	28.640	22.2	27.9	27.6	32.7	18.5	25.6	57	7	17	18	20	79	66	72	.099	.103	.111	.73	.47	7.9	7.9	6.5	8.1
March	29.323	30.130	28.710	32.2	36.8	36.1	42.9	28.1	35.5	76	9	26	27	28	78	68	70	.152	.166	.160	2.08	.52	8.0	7.4	7.2	7.6
April	29.267	29.820	28.600	44.9	53.5	52.2	59.1	40.7	49.9	78	24	38	39	40	77	61	64	.245	.258	.262	4.13	1.49	6.2	5.7	6.4	5.9
May	29.357	29.640	29.020	53.8	62.2	61.8	67.7	49.2	58.4	91	32	45	48	48	73	62	62	.323	.361	.362	1.04	.43	5.3	6.2	6.0	6.5
June	29.316	29.790	29.050	65.4	76.7	74.0	80.3	60.9	70.6	93	41	56	58	60	73	54	63	.475	.503	.537	.71	.33	5.6	5.6	6.1	5.7
July	29.309	29.560	29.010	72.2	83.1	82.4	87.6	67.1	77.4	99	54	63	63	63	74	53	54	.588	.585	.590	2.48	.82	4.3	5.1	3.5	5.2
August	29.348	29.704	29.000	63.3	74.0	72.1	77.8	60.3	69.0	88	50	58	60	60	82	64	68	.486	.536	.530	4.97	2.65	5.1	5.5	5.2	5.6
September	29.261	29.632	28.890	60.0	71.0	66.6	74.3	56.6	65.4	88	46	55	58	56	83	67	72	.447	.505	.472	2.62	1.06	5.0	5.4	5.4	6.0
October	29.265	29.560	28.820	44.4	53.9	50.4	56.5	42.2	49.4	69	30	40	43	43	84	69	78	.249	.292	.284	2.04	1.34	5.9	5.3	5.3	7.5
November	29.383	29.840	29.035	29.0	34.1	32.9	37.1	25.5	31.3	49	10	25	29	28	84	79	80	.139	.161	.153	1.14	.33	7.9	7.9	8.5	8.5
December	29.323	29.833	28.470	19.7	23.9	23.8	28.5	15.0	21.8	50	−10	16	19	19	85	78	80	.099	.108	.111	3.65	1.84	7.1	7.5	6.4	7.9
Year	29.327	30.192	28.470	44.1	52.0	50.5	56.2	40.2	48.2	99	−10	38	40	40	80	66	69	.284	.307	.306	26.09	2.65	6.2	6.4	6.1	6.8

GREENVILLE, S. C.

[ϕ=34° 50′ N.; λ=82° 24′ W.]

January	29.075	29.680	28.580	38.7	47.1	45.3	52.5	35.2	43.8	72	22	32	34	34	78	62	66	0.194	0.204	0.209	5.10	1.64	6.4	6.1	4.4	5.9
February	28.962	29.280	28.510	40.4	49.0	48.1	55.8	37.7	46.8	76	25	36	39	38	83	71	72	.220	.250	.241	8.37	2.68	6.4	5.5	4.3	5.6
March	29.048	29.320	28.763	53.2	64.2	62.2	68.6	49.3	59.0	82	36	48	49	50	83	61	66	.352	.370	.370	2.42	1.06	5.1	5.6	4.6	5.5
April	28.973	29.270	28.570	55.9	66.5	63.6	70.8	51.2	61.0	83	36	46	45	44	70	48	52	.332	.328	.318	2.85	1.24	3.9	3.9	3.6	4.0
May	28.904	29.250	28.590	62.3	71.4	67.5	75.2	56.7	66.0	89	44	54	53	54	75	54	65	.435	.425	.439	5.61	1.50	4.7	5.7	5.5	5.6
June	28.921	29.220	28.620	72.9	82.7	78.3	86.9	67.8	77.4	96	59	65	63	64	77	54	64	.624	.595	.631	1.75	1.03	4.5	4.7	5.8	5.2
July	28.953	29.213	28.730	74.4	83.5	79.3	87.5	69.7	78.6	96	65	68	66	67	80	58	68	.684	.649	.670	3.15	1.66	5.2	5.2	6.1	5.7
August	29.009	29.180	28.830	71.4	79.6	75.4	83.0	67.5	75.2	96	61	66	65	66	85	64	76	.653	.627	.652	3.77	1.37	5.1	5.8	6.0	5.7
September	28.966	29.150	28.750	72.8	84.2	78.3	87.9	68.4	78.2	95	62	66	65	66	81	55	69	.648	.620	.650	6.49	2.26	3.6	4.1	4.8	4.5
October	28.933	29.410	28.550	53.5	66.3	62.1	70.2	49.9	60.0	79	37	46	48	48	78	54	61	.325	.349	.342	2.56	1.81	3.1	2.6	1.8	2.5
November	28.971	29.270	28.400	48.6	57.3	55.3	62.1	45.9	54.0	74	31	42	44	46	80	65	72	.282	.311	.324	3.38	1.01	4.7	5.3	4.9	5.2
December	28.964	29.460	28.440	41.9	52.8	48.8	57.5	38.4	48.0	67	28	35	36	35	77	56	60	.213	.221	.213	2.80	1.33	5.1	4.6	3.8	4.6
Year	28.973	29.680	28.400	57.2	67.1	63.7	71.5	53.1	62.3	96	22	50	51	51	79	58	66	.414	.412	.420	48.75	2.68	4.8	4.9	4.6	5.0

GROESBECK, TEX.

[ϕ=31° 30′ N.; λ=96° 28′ W.]

January	29.669	30.040	29.320	46.7	58.5	....	64.2	43.9	54.0	78	29	43	45	....	88	63	....	0.308	0.322	.....	1.61	0.75	6.0	5.6	....	5.7
February	29.592	29.920	28.990	44.2	58.2	....	66.1	42.4	54.2	84	31	40	41	....	85	56	....	.256	.268	.....	1.19	.80	5.1	4.8	....	4.8
March	29.526	29.980	29.150	57.8	69.5	....	74.5	55.0	64.8	83	34	54	56	....	86	65	....	.453	.481	.....	2.64	1.10	7.5	7.2	....	6.9
April	29.497	30.100	29.000	55.8	68.6	....	73.3	52.5	62.9	82	35	51	52	....	85	58	....	.403	.412	.....	6.74	2.22	4.9	4.4	....	4.5
May	29.493	29.720	29.190	65.3	78.7	....	82.6	61.9	72.2	92	49	62	62	....	89	58	....	.566	.571	.....	2.49	.89	5.2	4.5	....	4.6
June	29.427	29.550	29.090	72.6	83.1	....	86.9	69.5	78.2	93	66	70	70	....	93	66	....	.744	.730	.....	5.98	2.57	6.0	6.1	....	6.1
July	29.496	29.650	29.220	74.9	87.9	....	91.8	72.6	82.2	96	69	72	69	....	90	55	....	.778	.718	.....	.36	.22	3.9	4.4	....	4.2
August	29.529	29.650	29.340	73.8	90.5	....	95.5	71.6	83.6	101	66	70	66	....	90	46	....	.741	.639	.....	.49	.48	2.7	3.1	....	2.7
September	29.495	29.640	29.310	71.9	86.6	....	90.4	71.0	80.7	96	62	71	69	....	96	57	....	.757	.712	.....	1.85	1.34	4.3	4.4	....	4.5
October	29.528	29.870	29.150	54.2	76.6	....	81.0	52.2	66.6	94	40	49	48	....	85	40	....	.377	.372	.....	.77	.62	2.0	2.4	....	2.3
November	29.592	29.871	29.120	52.7	71.6	....	75.8	49.6	62.7	88	31	47	45	....	82	41	....	.368	.339	.....	.33	.16	4.9	3.6	....	4.2
December	29.631	29.980	29.110	45.3	58.7	....	65.3	40.9	53.1	80	23	41	42	....	85	56	....	.285	.290	.....	2.04	.82	4.5	5.3	....	5.2
Year	29.540	30.100	28.990	59.6	74.0	....	79.0	56.9	67.9	101	23	56	55	....	88	55	....	.503	.488	.....	26.49	2.57	4.8	4.6	....	4.6

HANNIBAL, MO.

[ϕ=39° 41′ N.; λ=91° 20′ W.]

January	29.571	30.250	29.020	31.7	37.7	....	43.2	27.9	35.6	62	5	26	27	....	78	66	....	0.150	0.157	.....	1.48	0.53	6.0	7.2	....	6.4
February	29.476	30.010	28.980	33.1	40.8	....	47.3	30.5	38.9	74	19	27	28	....	76	61	....	.150	.161	.....	.40	.12	5.4	5.6	....	5.3
March	29.445	30.090	28.980	44.6	54.1	....	61.5	40.1	50.8	80	18	36	37	....	74	54	....	.238	.245	.....	3.35	.96	6.7	6.3	....	6.2
April	29.397	30.000	28.890	49.7	60.3	....	65.6	46.1	55.8	83	29	40	42	....	71	53	....	.274	.284	.....	4.58	1.37	4.9	7.1	....	5.9
May	29.440	29.750	29.080	60.9	72.6	....	76.2	56.9	66.6	92	39	52	52	....	72	49	....	.407	.413	.....	1.41	.77	3.5	5.3	....	4.4
June	29.377	29.760	29.190	71.9	82.2	....	86.4	68.6	77.5	96	52	65	64	....	79	57	....	.631	.623	.....	3.52	.71	4.6	6.0	....	5.3
July	29.432	29.620	29.160	75.0	87.3	....	91.2	70.2	80.7	98	56	66	64	....	75	47	....	.656	.604	.....	1.78	.80	3.8	4.8	....	3.8
August	29.444	29.730	29.180	69.4	80.7	....	85.3	66.5	75.9	96	56	64	65	....	82	60	....	.593	.630	.....	5.78	2.10	4.4	5.0	....	4.2
September	29.406	29.660	29.120	65.8	76.6	....	81.2	62.9	72.0	94	48	62	61	....	86	62	....	.564	.567	.....	8.65	2.00	6.3	5.4	....	5.3
October	29.413	29.850	29.040	48.8	63.4	....	68.4	47.4	57.9	82	33	42	41	....	77	47	....	.270	.274	.....	2.16	.92	2.5	3.6	....	3.2
November	29.478	29.900	29.080	33.1	45.7	....	50.6	34.7	42.6	70	23	33	34	....	81	66	....	.192	.200	.....	1.50	1.13	6.7	6.9	....	6.8
December	29.527	29.990	28.760	30.2	36.9	....	43.0	27.0	35.0	59	6	25	27	....	79	68	....	.136	.153	.....	1.50	.74	4.5	6.2	....	5.7
Year	29.451	30.250	28.760	51.6	61.5	....	66.7	48.2	57.4	98	5	45	45	....	78	58	....	.355	.359	.....	35.51	2.10	4.9	5.8	....	5.2

Annual meteorological summary for the year ending December 31, 1921—Continued.

GREEN BAY, WIS.

[H_b=617 ft.; h_1=109 ft.; h_2=101 ft.; h_3=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.	0.01 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	12.0	W.	48	W.	1	5	7	0	4	15	13	16	2	0	3	11	17	7	4	9	5	0	1	18	0	29	0	0
February	10.1	SW.	56	SW.	2	7	7	2	8	5	14	8	5	0	2	6	20	9	6	15	9	0	1	14	0	28	0	0
March	10.8	S.	48	SW.	2	5	11	3	8	14	7	7	7	0	3	9	19	10	10	9	2	1	2	5	0	23	3	0
April	15.1	S.	48	SW.	4	7	9	1	10	19	10	2	2	0	6	12	12	9	9	0	0	0	0	1	0	7	1	0
May	10.8	NE.	33	N.	0	15	12	5	5	10	5	7	3	0	7	8	16	9	7	0	0	0	1	0	1	0	5	2
June	8.6	S.	33	SW.	0	9	7	4	14	12	9	4	1	0	7	15	8	7	5	0	0	0	0	0	4	0	4	0
July	9.0	S.	42	W.	2	6	7	3	5	18	18	2	3	0	11	13	7	10	8	0	0	0	0	0	12	0	11	0
August	9.4	S.	39	S.	0	8	5	0	12	17	10	5	5	0	9	11	11	6	4	0	0	0	1	0	0	0	5	0
September	11.4	S.	50	NW.	3	1	6	5	11	10	18	8	1	0	10	9	11	11	9	0	0	0	1	0	0	0	6	0
October	12.0	SW.	42	W.	1	6	7	6	6	9	12	6	10	0	4	5	22	8	5	0	0	1	3	0	0	2	2	0
November	10.8	N.	34	NW.	0	13	5	1	4	7	13	7	9	1	1	8	21	11	8	11	9	0	2	6	0	23	0	0
December	11.4	SW.	50	NW.	1	11	2	1	1	12	11	13	11	0	6	3	22	11	10	12	8	0	0	18	0	29	0	0
Year	11.0	S.	56	SW.	16	93	85	31	88	148	140	85	59	1	69	110	186	108	85	56	33	2	12	62	17	141	37	2

GREENVILLE, S. C.

[H_b=1039 ft.; h_1=113 ft.; h_2= 102 ft.; h_3=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.	0.01 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	9.4	NE.	36	W.	0	4	16	7	2	5	14	11	3	0	7	12	12	10	9	2	2	0	4	0	0	9	0	0
February	8.0	NE.	43	NW.	1	7	17	4	2	6	6	9	3	2	10	8	10	12	10	2	2	0	2	0	0	10	4	0
March	9.2	SW.	33	NW.	0	3	13	8	3	10	14	7	4	0	12	6	13	8	6	0	0	1	3	0	0	0	2	0
April	8.9	SW.	50	SW.	1	12	14	5	2	14	7	4	2	0	16	9	5	10	10	0	0	1	0	0	0	0	5	0
May	7.6	NE.	49	W.	2	11	17	12	4	4	2	6	6	0	8	14	9	12	9	0	0	0	1	0	0	0	11	0
June	6.9	NE.	37	NW.	0	2	16	8	7	1	5	10	7	4	5	24	1	10	8	0	0	0	0	0	11	0	11	0
July	6.7	E.	27	W.	0	3	14	14	4	4	8	11	3	1	5	20	6	10	6	0	0	0	0	0	9	0	15	0
August	7.2	NE.	39	NW.	0	3	13	15	1	0	7	14	7	2	9	13	9	15	10	0	0	0	0	0	6	0	9	0
September	6.0	NE.	46	NW.	1	7	18	8	2	5	2	8	10	0	11	16	3	8	8	0	0	1	1	0	11	0	11	0
October	8.4	NE.	33	NE.	0	7	20	5	4	1	9	8	8	0	21	7	3	7	6	0	0	0	1	0	0	0	1	0
November	7.4	NE.	36	W.	0	3	16	7	2	3	12	11	6	0	13	3	14	10	10	0	0	0	4	0	0	1	3	0
December	8.7	SW.	42	W.	2	5	15	3	4	5	15	8	5	2	13	8	10	6	5	0	0	0	1	0	0	2	1	0
Year	7.9	NE.	50	SW.	7	67	189	96	37	58	101	107	64	11	130	140	95	118	97	4	4	3	17	0	37	22	73	0

GROESBECK, TEX.

[H_b=461 ft.; h_1=11 ft.; h_2=3 ft.; h_3=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.	0.01 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	11.3	S.	32	SW.	0	5	1	4	4	6	6	1	4	0	7	11	13	7	4	0	0	0	2	0	0	4	2	0
February	12.5	N.	39	NW.	0	9	2	1	1	7	3	3	2	0	13	4	11	4	4	0	0	0	0	0	0	3	2	0
March	14.2	S.	48	S.	5	7	2	2	4	11	4	1	0	0	3	14	14	7	4	0	0	1	2	0	0	0	5	0
April	12.5	S.	50	SW.	1	5	4	1	6	7	3	0	3	1	13	6	11	10	7	0	0	1	1	0	0	0	7	0
May	9.1	SE.	36	NE.	0	3	4	4	8	9	3	0	0	0	14	13	4	6	6	0	0	0	0	0	1	0	6	0
June	9.2	SE.	42	SW.	1	1	1	5	12	5	4	1	0	1	3	19	8	18	12	0	0	0	0	0	5	0	10	0
July	9.9	S.	39	E.	0	1	3	0	4	10	12	0	1	0	12	16	3	3	2	0	0	0	0	0	25	0	2	0
August	9.2	S.	32	SE.	0	1	2	1	5	12	10	0	0	0	18	11	2	2	1	0	0	0	0	0	27	0	1	0
September	8.9	S.	44	SE.	1	2	0	1	11	12	3	0	0	1	12	13	5	6	4	0	0	0	0	0	24	0	6	0
October	9.1	S.	33	N.	0	4	2	7	5	6	4	3	0	0	21	9	1	2	2	0	0	0	1	0	2	0	2	0
November	10.6	S.	43	S.	1	6	0	2	3	9	5	0	4	1	13	9	8	4	3	0	0	0	1	0	0	1	0	0
December	11.2	S.	39	SW.	0	5	0	1	6	6	5	3	5	0	12	8	11	5	4	0	0	0	2	0	0	6	2	0
Year	10.6	S.	50	SW.	9	49	21	29	69	100	62	12	19	4	141	133	91	74	53	0	0	2	9	0	84	14	45	0

HANNIBAL, MO.

[H_b=534 ft.; h_1=74 ft.; h_2=68 ft.; h_3=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.	0.01 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	9.4	SW.	32	SW.	0	4	2	2	1	2	12	5	3	0	9	7	15	9	6	5	3	0	0	8	0	20	0	0
February	9.4	SW.	37	SW.	0	3	2	1	4	1	8	3	6	0	9	8	11	5	5	6	3	0	1	0	0	19	0	0
March	11.3	SW.	42	SW.	1	2	5	2	2	2	12	1	5	0	7	8	16	17	11	1	1	0	0	0	0	6	9	0
April	11.4	SW.	38	NE.	0	1	1	2	1	4	13	2	6	0	8	9	13	13	9	3	0	0	0	0	0	5	3	0
May	8.0	SW.	34	NE.	0	6	1	4	3	3	9	1	4	0	14	10	7	6	5	0	0	1	0	0	4	0	5	1
June	8.9	SW.	34	S.	0	2	2	3	4	1	11	3	4	0	10	9	11	14	12	0	0	0	0	0	11	0	11	0
July	8.3	SW.	38	SW.	0	3	3	3	0	5	13	1	3	0	17	9	5	6	4	0	0	0	1	0	21	0	4	0
August	7.5	SW.	34	NW.	0	4	2	6	2	2	12	0	3	0	14	13	4	10	10	0	0	0	1	0	9	0	8	0
September	7.9	SW.	44	SW.	1	2	4	4	0	1	17	1	1	0	11	8	11	15	14	0	0	0	3	0	2	0	16	0
October	9.3	SW.	30	N.	0	2	1	1	3	2	15	2	5	0	20	5	6	10	6	0	0	1	0	0	0	0	4	0
November	7.9	NW.	24	N.	0	1	1	0	2	4	8	4	5	0	6	8	16	8	6	3	3	0	1	0	0	11	2	0
December	10.2	SW.	31	NW.	0	2	3	2	1	3	12	3	5	0	12	7	12	7	7	3	2	0	0	5	0	21	0	0
Year	8.8	SW.	44	SW.	2	37	27	30	23	30	162	26	50	0	137	101	127	120	95	21	12	2	7	13	47	82	62	1

Annual meteorological summary for the year ending December 31, 1921—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	29.776	30.520	29.170	28.8	34.9	33.6	38.6	25.5	32.0	54	5	21	22	24	73	59	67	0.124	0.128	0.134	1.68	0.81	6.1	6.1	4.1	5.9
February	29.685	30.132	29.030	31.2	36.7	36.3	41.0	28.8	34.9	68	15	24	25	27	73	64	69	.130	.137	.150	2.67	1.85	7.0	7.3	5.3	6.9
March	29.746	30.173	29.310	44.0	53.4	52.6	60.0	39.2	49.6	82	22	36	38	39	74	58	60	.238	.257	.257	2.34	.56	6.2	6.5	4.9	6.0
April	29.652	30.002	29.170	51.8	61.1	60.2	66.9	46.9	56.9	87	28	43	43	43	72	55	57	.299	.302	.301	3.29	1.91	5.9	6.3	5.1	6.0
May	29.620	30.030	29.290	58.0	65.7	64.2	70.4	52.5	61.4	89	45	47	46	50	68	53	62	.335	.326	.370	3.94	1.23	5.9	7.2	6.8	6.1
June	29.594	29.915	29.270	68.5	77.8	76.2	83.0	62.6	72.8	95	50	56	54	55	66	46	50	.469	.446	.455	1.74	.59	4.7	4.9	5.6	5.0
July	29.611	29.860	29.290	74.5	83.4	80.3	87.8	70.0	78.9	95	64	66	64	65	76	53	60	.642	.599	.616	1.26	.50	5.2	6.6	5.9	5.9
August	29.704	29.930	29.353	66.6	75.5	73.2	79.9	61.9	70.9	93	52	58	56	59	74	53	62	.494	.463	.506	3.12	1.23	4.2	5.3	3.5	4.4
September	29.651	29.900	29.300	66.2	75.2	72.6	79.3	62.4	70.8	94	53	58	58	60	76	58	65	.495	.502	.526	2.73	1.17	4.7	5.9	4.5	5.4
October	29.629	30.139	29.100	48.2	59.2	56.8	64.7	44.9	54.8	76	33	40	41	43	75	52	61	.257	.264	.287	1.51	.56	4.1	5.2	2.3	3.9
November	29.673	30.070	29.090	40.6	45.6	44.8	50.1	37.4	43.8	76	29	34	35	36	78	68	73	.207	.217	.226	3.20	1.17	6.3	8.6	7.0	7.6
December	29.659	30.290	29.030	30.8	35.6	34.6	40.2	26.9	33.6	59	9	23	25	24	72	64	64	.126	.137	.138	2.60	1.04	6.8	5.4	6.3	6.1
Year	29.667	30.520	29.030	50.8	58.7	57.1	63.5	46.6	55.0	95	5	42	42	44	73	57	62	.318	.315	.330	30.08	1.91	5.6	6.3	5.1	5.8

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	29.948	30.770	29.210	26.5	31.6	31.3	38.5	21.5	30.0	54	−1	20	20	20	75	61	62	0.118	0.119	0.121	2.41	1.06	5.8	6.5	3.4	6.0
February	29.897	30.380	29.200	27.9	34.2	32.6	38.8	23.6	31.2	60	7	22	23	24	76	63	69	.121	.128	.133	3.87	2.16	8.0	7.2	5.6	6.6
March	29.974	30.480	29.510	40.7	49.6	46.0	55.5	34.8	45.2	82	21	33	35	35	74	58	66	.211	.229	.222	2.28	.75	6.5	5.5	4.1	6.1
April	29.878	30.380	29.480	49.3	59.3	54.3	64.1	43.0	53.6	82	31	41	41	42	74	55	66	.272	.276	.283	4.07	.95	6.9	6.4	4.7	6.2
May	29.839	30.270	29.480	56.1	65.7	60.7	70.5	49.1	59.8	90	35	46	43	47	69	48	62	.319	.297	.333	2.82	1.77	5.9	5.5	5.8	5.7
June	29.778	30.131	29.340	65.8	74.4	69.4	78.8	57.5	68.2	95	47	53	52	53	65	48	60	.418	.410	.436	1.63	.73	4.2	5.4	5.7	4.9
July	29.808	30.050	29.460	72.0	80.4	75.4	84.0	66.7	75.4	94	58	66	66	68	81	63	77	.644	.646	.682	4.14	1.26	6.5	7.2	5.7	6.9
August	29.902	30.170	29.420	64.9	75.3	70.2	79.0	58.8	68.9	93	49	57	55	58	77	51	67	.482	.450	.497	1.29	.46	4.9	5.2	3.6	5.0
September	29.854	30.160	29.410	63.7	74.4	69.0	78.9	58.8	68.8	95	44	56	55	58	77	52	70	.467	.450	.507	3.21	1.19	5.7	4.5	2.9	5.3
October	29.802	30.310	29.160	48.1	59.1	54.2	63.5	43.0	53.2	76	29	41	42	44	78	55	68	.270	.279	.297	1.19	.46	6.0	5.8	3.9	5.7
November	29.889	30.330	29.360	37.4	41.9	40.9	47.2	34.6	40.9	70	25	33	35	35	84	77	80	.198	.212	.214	5.28	1.06	8.1	8.1	7.4	8.2
December	29.826	30.570	29.140	26.5	32.3	30.3	37.8	22.2	30.0	57	1	19	22	22	73	65	69	.116	.124	.125	2.36	.95	6.1	5.8	3.7	5.9
Year	29.866	30.770	29.140	48.2	56.5	52.9	61.4	42.8	52.1	95	−1	41	41	42	75	58	68	.303	.302	.321	34.55	2.16	6.2	6.1	4.7	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	30.153	30.772	29.690	45.4	50.8	47.6	54.2	41.5	47.8	65	30	41	42	43	85	71	84	0.268	0.276	0.289	1.65	0.79	6.7	5.5	4.8	5.9
February	30.059	30.490	29.510	46.9	51.5	48.3	55.4	41.8	48.6	68	34	43	44	45	86	76	87	.289	.301	.306	3.52	1.01	6.1	5.5	5.7	6.1
March	30.179	30.453	29.880	59.7	64.4	59.8	67.5	53.5	60.5	78	37	53	54	56	80	70	86	.428	.442	.462	1.18	.53	4.7	4.4	5.1	5.1
April	30.059	30.390	29.862	62.7	65.6	61.4	68.7	56.0	62.4	78	41	55	55	56	78	71	82	.463	.463	.467	4.85	1.01	5.8	6.5	4.5	5.9
May	29.954	30.324	29.590	64.7	68.3	63.5	70.7	59.2	65.0	80	49	59	61	59	84	77	86	.523	.543	.517	3.80	1.45	7.4	6.9	6.6	7.2
June	29.978	30.240	29.730	74.9	77.0	72.8	79.2	68.3	73.8	90	58	68	68	68	81	75	85	.704	.700	.698	3.56	2.00	5.3	6.0	5.4	5.7
July	30.032	30.290	29.830	78.5	81.1	77.1	82.8	73.0	77.9	89	67	73	74	73	85	78	88	.824	.830	.815	6.89	1.33	6.1	6.4	4.9	5.5
August	30.065	30.270	29.810	77.6	80.7	75.3	81.6	71.6	76.6	89	64	70	71	71	79	73	86	.758	.768	.762	5.32	1.71	5.1	5.0	4.3	4.6
September	30.032	30.231	29.800	77.9	81.2	76.6	82.2	72.1	77.2	86	67	71	71	71	81	71	84	.770	.762	.770	5.03	2.06	4.5	4.2	2.8	4.4
October	29.900	30.470	29.610	65.7	70.1	66.1	71.8	59.5	65.6	83	49	57	57	57	76	65	74	.485	.489	.488	5.07	3.53	4.0	4.8	3.7	4.7
November	30.052	30.330	29.530	60.2	64.2	60.0	66.6	54.9	60.8	76	44	55	55	55	84	72	84	.454	.447	.448	4.73	2.91	5.1	4.6	4.4	4.8
December	30.057	30.620	29.460	48.2	53.8	49.3	56.6	43.6	50.1	71	31	43	44	44	81	70	82	.289	.303	.298	1.95	1.13	5.6	4.9	4.2	5.5
Year	30.052	30.772	29.460	63.5	67.4	63.2	69.8	57.9	63.9	90	30	57	58	58	82	72	84	.521	.527	.526	47.55	3.53	5.5	5.4	4.7	5.4

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	27.267	27.672	26.690	19.4	31.2	28.4	36.9	15.2	26.0	56	−2	16	20	21	87	62	73	0.090	0.106	0.111	0.12	0.10	3.9	4.3	5.8	4.8
February	27.313	27.961	26.797	22.5	32.4	34.0	40.7	16.8	28.8	66	−4	18	20	22	82	63	64	.104	.116	.124	.15	.11	4.8	6.0	5.2	5.8
March	27.293	27.730	26.800	23.6	32.7	33.9	39.6	17.7	28.6	64	−15	20	23	25	87	68	72	.120	.128	.138	1.89	.88	6.3	6.3	7.3	7.1
April	27.291	27.868	26.780	33.7	50.5	50.3	54.8	31.4	43.1	74	14	29	30	31	82	49	53	.160	.169	.175	.92	.19	5.2	4.9	5.3	5.2
May	27.315	27.700	26.835	44.9	60.9	61.7	65.1	42.5	53.8	84	30	40	42	41	83	52	50	.251	.275	.266	2.17	1.42	5.8	6.3	6.3	5.5
June	27.291	27.660	26.950	57.0	74.4	75.8	81.5	54.0	67.8	97	44	51	49	50	80	44	46	.373	.355	.374	2.60	1.04	4.5	4.5	6.0	5.0
July	27.349	27.540	26.980	57.3	79.8	81.2	84.1	55.4	69.8	102	47	51	54	51	81	45	39	.381	.434	.392	2.51	1.07	2.2	2.5	3.4	2.9
August	27.350	27.710	26.942	54.4	78.5	81.3	84.9	53.2	69.0	99	43	49	45	44	76	33	28	.322	.310	.293	.27	.20	2.5	2.3	3.1	3.4
September	27.310	27.680	26.800	44.4	60.1	59.3	64.7	40.4	52.6	80	28	36	38	37	74	50	48	.210	.237	.226	1.50	.77	5.0	6.4	5.1	6.6
October	27.260	27.860	27.005	40.4	58.9	57.7	65.3	35.8	50.6	83	29	32	34	35	74	41	45	.183	.199	.208	.16	.16	4.3	3.3	2.9	4.6
November	27.355	27.820	26.600	24.0	30.8	28.9	34.8	16.7	25.8	70	−26	19	22	20	82	75	80	.122	.131	.127	1.09	.35	4.9	6.4	6.7	7.8
December	27.451	27.834	26.940	17.1	23.2	21.1	28.7	11.4	20.0	55	−22	13	16	16	84	74	79	.095	.103	.103	.25	.18	4.1	4.8	4.6	5.9
Year	27.320	27.961	26.600	36.6	51.1	51.0	56.8	32.5	44.7	102	−26	31	33	33	81	55	56	.201	.214	.211	13.03	1.42	4.5	4.8	5.1	5.4

Annual meteorological summary for the year ending December 31, 1921—Continued.

HARRISBURG, PA.

[H_b=374 ft.; h_1=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.	Wind. Number of winds, 8 a. m. and 8 p. m. North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Calm.	Number of days. Clear.	Partly cloudy.	Cloudy.	Precipitation. 0.01 inch and over.	0.01 inch and over.	Snow. 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	7.0	W.	40	W.	1	9	7	10	5	4	5	11	11	0	8	8	15	11	6	5	3	0	2	5	0	23	0	0
February	6.7	NE.	26	NW.	0	3	14	8	4	2	5	14	6	0	4	9	15	12	8	8	6	0	1	6	0	17	0	0
March	6.7	E.	27	SW.	0	2	10	14	11	4	4	6	11	0	9	7	15	14	12	2	2	0	0	0	0	6	3	0
April	4.8	S.	22	NW.	0	4	3	12	7	8	6	11	9	0	9	8	13	12	8	3	1	0	1	0	0	3	2	0
May	3.6	E.	24	NE.	0	10	9	11	3	9	3	8	9	0	7	13	11	11	9	0	0	0	0	0	0	0	5	2
June	3.8	S.	24	NW.	0	3	13	9	4	6	10	8	7	0	10	12	8	7	6	0	0	0	1	0	8	0	6	0
July	5.2	W.	28	SW.	0	8	10	6	3	12	7	12	4	0	10	8	13	8	7	0	0	0	1	0	10	0	6	0
August	5.4	S.	21	N.	0	9	5	9	9	11	3	8	8	0	15	7	9	9	9	0	0	0	0	0	2	0	2	0
September	5.0	W.	32	SW.	0	8	10	11	6	6	4	10	4	1	8	14	8	12	6	0	0	0	0	0	2	0	6	0
October	6.0	W.	25	SW.	0	7	4	13	6	7	4	15	6	0	15	10	6	6	6	0	0	0	1	0	0	0	1	0
November	7.0	NE.	31	S.	0	4	15	8	4	2	7	12	8	0	3	10	17	15	10	1	0	0	3	0	0	2	1	0
December	7.2	NW.	50	SW.	1	8	6	6	5	7	7	12	11	0	8	8	15	9	8	10	3	0	0	4	0	22	0	0
Year	5.7	W.	50	SW.	2	75	106	117	67	78	65	127	94	1	106	114	145	126	95	29	15	0	10	15	22	73	32	2

HARTFORD, CONN.

[H_b=159 ft.; h_1=122 ft.; h_r=116 ft.; h_a=140 ft.]

January	8.4	NW.	35	W.	0	11	4	2	0	12	11	4	18	0	9	7	15	9	8	6	3	0	0	5	0	24	0	0
February	6.9	NW.	33	NW.	0	13	9	1	2	6	8	7	10	0	5	10	13	11	9	7	6	0	1	4	0	24	0	0
March	9.3	S.	37	S.	0	10	4	2	1	23	8	1	13	0	8	8	15	13	10	1	0	0	1	0	0	9	5	0
April	7.9	S.	31	SE.	0	11	17	5	1	13	8	2	3	0	9	6	15	12	10	2	1	0	0	0	0	2	1	0
May	7.7	NE.	34	NE.	0	10	19	2	3	16	7	4	1	0	11	8	12	9	6	0	0	0	0	0	1	0	1	2
June	7.5	SW.	31	SW.	0	10	6	3	2	8	19	2	10	0	11	12	7	10	7	0	0	0	0	0	2	0	6	0
July	6.3	S.	32	NW.	0	7	10	5	0	20	15	1	4	0	7	8	16	14	11	0	0	0	0	0	7	0	9	0
August	6.8	S.	32	NW.	0	5	7	5	0	19	10	13	3	0	13	7	11	9	8	0	0	0	0	0	1	0	4	0
September	6.7	S.	40	SW.	1	1	9	2	1	21	15	3	8	0	10	11	9	8	8	0	0	0	0	0	2	0	4	1
October	7.3	SW.	42	S.	1	8	7	2	1	14	20	1	9	0	9	10	12	5	5	0	0	0	0	0	0	2	2	0
November	7.3	N.	39	NW	0	17	12	0	2	6	7	6	10	0	3	6	21	20	15	4	2	0	2	0	0	14	0	1
December	8.1	NW.	44	S.	1	9	5	1	0	6	15	3	23	0	10	7	14	9	6	8	5	0	0	8	0	27	1	2
Year	7.5	S.	44	S.	3	112	109	30	13	164	143	47	112	0	105	100	160	129	103	28	17	0	4	17	13	102	33	6

HATTERAS, N. C.

[H_b=11 ft.; h_1=12 ft.; h_r=4 ft.; h_a=50 ft.]

January	17.3	N.	49	NW.	3	18	9	4	1	1	14	11	4	0	8	12	11	8	7	1	0	0	1	0	0	4	1	0
February	15.5	N.	44	NW.	1	12	14	4	2	6	5	9	4	0	8	8	12	14	13	0	0	0	2	0	0	0	3	0
March	16.3	SW.	49	N.	4	6	16	2	5	11	16	5	1	0	12	11	8	9	7	0	0	0	0	0	0	0	1	0
April	15.5	SW.	50	NW.	3	8	7	5	6	8	14	7	5	0	8	8	14	10	9	0	0	0	0	0	0	0	1	0
May	13.9	NE.	40	SE.	1	6	15	6	6	7	10	7	5	0	4	9	18	11	11	0	0	1	0	0	0	0	2	0
June	12.2	SW.	40	NE.	1	3	13	11	0	5	21	6	1	0	5	17	8	10	6	0	0	0	0	0	0	0	3	0
July	13.0	SW.	36	W.	0	1	6	0	4	16	31	3	1	0	8	15	8	14	11	0	0	0	0	0	0	0	4	0
August	13.7	SW.	50	W.	2	5	17	10	3	4	20	2	1	0	13	10	8	11	10	0	0	0	0	0	0	0	5	0
September	10.1	NE.	50	NW.	2	4	21	5	3	5	15	6	1	0	11	14	5	10	8	0	0	0	0	0	0	0	7	0
October	15.4	NE.	50	NW.	5	10	17	4	5	0	10	8	8	0	14	6	11	7	6	0	0	0	0	0	0	0	0	0
November	13.1	W.	40	NW.	1	6	16	2	4	7	8	11	6	0	14	6	10	10	9	0	0	0	0	0	0	0	2	0
December	16.7	N.	52	SW.	7	18	11	1	0	3	9	8	12	0	9	11	11	8	6	0	0	0	0	0	0	1	0	0
Year	14.4	SW.	52	SW.	30	97	162	54	39	73	173	83	49	0	114	127	124	122	103	1	0	1	3	0	0	5	29	0

HAVRE, MONT.

[H_b=2,505 ft.; h_1=11 ft.; h_r=4 ft.; h_a=44 ft.]

January	8.9	SW.	36	SW.	0	0	1	15	4	2	24	9	6	1	8	18	5	3	1	5	3	0	0	9	0	31	0	0
February	9.3	SW.	38	SW.	0	1	2	12	0	0	29	11	9	1	6	15	7	5	2	7	5	0	2	10	0	25	0	0
March	9.1	SW.	37	NW.	0	7	5	17	1	0	16	7	8	1	4	12	15	14	11	16	13	0	2	10	0	28	0	0
April	8.6	E.	34	SW.	0	10	4	15	5	1	9	11	5	0	9	11	10	11	10	8	6	3	0	4	0	16	1	0
May	7.7	E.	36	W.	0	6	3	18	9	0	9	6	9	2	10	13	8	11	8	1	0	0	0	0	0	2	4	3
June	6.4	SW.	49	SW.	1	5	1	9	4	5	10	12	13	1	10	13	7	12	7	0	0	0	0	0	5	0	9	0
July	6.5	E.	25	E.	0	3	2	15	4	5	14	10	7	3	22	7	2	10	8	0	0	0	0	0	5	0	8	0
August	5.7	E.	30	NW.	0	5	1	16	5	3	8	9	13	2	17	12	1	3	3	0	0	0	0	0	7	0	4	0
September	8.0	SW.	40	W.	1	0	1	11	2	3	14	15	13	1	5	11	14	10	8	4	4	1	0	0	0	5	0	2
October	7.4	SW.	38	SW.	0	3	3	11	2	1	16	15	9	0	13	11	7	2	1	0	0	0	0	0	0	10	0	0
November	6.5	SW.	26	SW.	0	3	4	7	2	1	20	11	12	0	3	7	20	9	6	8	6	0	0	11	0	24	0	0
December	8.9	SW.	37	SW.	0	2	4	14	0	0	20	11	11	0	10	9	12	5	2	8	5	0	4	15	0	27	0	0
Year	7.8	SW.	40	SW.	2	45	31	160	38	21	182	127	115	11	117	140	108	95	67	57	42	4	8	59	17	168	26	5

Annual meteorological summary for the year ending December 31, 1921—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	25.719	26.104	25.150	26.7	33.3	32.6	38.0	21.9	30.0	52	6	18	20	20	67	56	60	0.096	0.106	0.109	0.36	0.16	6.4	6.9	7.6	7.0
February	25.768	26.174	25.090	29.7	36.9	38.3	43.1	24.5	33.8	63	−1	18	20	20	63	52	47	.104	.115	.109	.25	.18	7.6	8.0	7.5	7.6
March	25.705	26.081	25.210	27.9	37.6	39.4	45.3	23.5	34.4	68	−5	20	22	20	72	53	48	.111	.120	.112	1.24	.40	8.0	7.5	7.2	7.4
April	25.724	26.176	25.335	35.3	46.1	47.3	51.3	32.2	41.8	73	15	25	27	25	65	50	45	.133	.147	.136	1.07	.29	7.1	7.5	5.8	6.8
May	25.734	26.021	25.352	43.4	50.0	58.1	62.0	41.1	51.6	78	27	35	36	35	74	50	46	.209	.215	.207	1.64	.40	7.7	7.9	7.0	7.5
June	25.775	26.000	25.450	53.6	70.2	71.3	76.2	51.2	63.7	91	42	44	45	43	72	42	40	.292	.298	.282	1.65	.64	5.2	6.2	5.6	5.8
July	25.829	25.983	25.540	57.1	76.9	80.1	83.2	55.2	69.2	98	41	41	42	39	56	31	26	.261	.273	.243	.29	.10	3.5	2.6	3.7	3.4
August	25.832	26.060	25.469	55.0	76.6	77.9	81.9	53.9	67.9	93	45	40	41	39	60	30	27	.257	.263	.243	.68	.35	4.0	3.6	4.4	4.0
September	25.793	26.050	25.400	43.5	55.3	55.9	60.8	40.9	50.8	78	28	31	32	32	62	45	45	.172	.186	.184	1.09	.81	6.0	5.9	5.7	6.1
October	25.845	26.230	25.440	42.3	56.5	57.1	64.0	38.8	51.4	80	25	29	30	29	59	38	36	.158	.168	.160	.04	.04	4.1	4.4	3.1	4.4
November	25.774	26.180	25.220	27.1	35.6	33.6	40.7	21.7	31.2	62	−13	18	20	21	71	55	62	.109	.123	.120	1.65	.78	6.4	8.4	8.1	8.4
December	25.864	26.205	25.270	19.5	24.5	23.1	29.7	14.1	21.9	62	−17	13	14	14	77	66	70	.088	.089	.091	1.13	.74	6.6	6.7	6.5	6.6
Year	25.780	26.230	25.090	38.4	50.5	51.2	56.4	34.9	45.6	98	−17	28	29	28	66	47	46	.166	.175	.166	11.09	.81	6.0	6.3	6.0	6.2

HONOLULU, HAWAII.*

[ϕ=21° 19′ N.; λ=157° 52′ W.]

January	29.990	30.130	29.780	71.3	73.2	71.3	75.3	66.9	71.1	80	63	63	64	63	76	74	76	0.582	0.606	0.577	9.97	2.28	7.8	7.7	7.8	7.0
February	29.993	30.160	29.750	71.9	76.3	72.7	77.9	68.4	73.2	80	63	63	64	63	74	66	73	.577	.596	.582	1.15	.45	3.9	5.5	4.0	4.1
March	29.990	30.160	29.780	71.1	75.1	71.6	77.2	67.3	72.2	84	62	60	60	60	70	61	68	.528	.530	.526	.39	.19	6.8	7.0	5.4	6.2
April	30.035	30.180	29.790	73.8	77.3	73.0	78.8	69.6	74.2	82	63	61	61	61	65	58	68	.544	.540	.546	.73	.24	5.1	5.8	5.2	5.5
May	29.969	30.060	29.850	76.3	78.2	74.9	80.7	70.9	75.8	83	68	64	64	64	66	63	70	.600	.608	.607	.37	.16	4.9	6.9	5.5	6.0
June	29.990	30.070	29.880	78.2	81.9	77.1	83.3	73.3	78.3	86	70	64	64	65	63	55	68	.608	.602	.626	.32	.15	5.3	4.2	4.9	4.8
July	29.985	30.070	29.810	77.1	81.1	76.9	82.9	73.6	78.2	85	71	66	65	66	68	59	68	.628	.618	.629	.79	.21	6.5	4.7	3.9	5.1
August	29.974	30.060	29.840	77.9	81.3	76.7	83.1	73.8	78.4	87	70	65	65	65	65	58	68	.616	.620	.623	.94	.58	4.2	4.4	3.9	4.1
September	29.965	30.060	29.840	77.0	81.1	76.3	82.5	73.4	78.0	84	70	64	64	65	65	56	68	.600	.588	.613	1.09	.67	6.8	6.6	5.0	5.9
October	29.977	30.130	29.810	76.3	79.4	75.6	81.5	71.5	76.5	85	68	66	66	65	70	64	71	.629	.630	.627	4.34	2.80	5.1	5.2	3.3	5.4
November	29.974	30.090	29.750	73.7	76.4	73.6	78.6	70.3	74.4	81	67	64	64	63	71	66	71	.586	.591	.582	.37	.09	5.3	6.0	5.8	6.1
December	29.974	30.090	29.720	72.0	75.1	71.7	76.5	68.7	72.6	83	64	62	63	63	72	67	75	.565	.581	.582	6.12	2.74	5.9	5.2	5.3	5.6
Year	29.985	30.180	29.720	74.7	78.0	74.3	79.9	70.6	75.2	87	62	64	64	64	69	62	70	.589	.592	.593	26.58	2.80	5.6	5.8	5.0	5.5

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

HOUGHTON, MICH.

[ϕ=47° 07′ N.; λ=88° 34′ W.]

January	29.316	30.120	28.490	18.4	23.6	....	27.9	14.2	21.0	45	−4	14	18	....	80	76	....	0.082	0.098	....	2.93	0.90	7.6	7.7	....	8.2
February	29.268	29.910	28.426	18.5	24.2	....	28.5	11.6	20.0	46	−10	14	18	....	80	75	....	.085	.102	....	3.20	.68	8.3	8.0	....	8.5
March	29.250	30.090	28.460	22.7	28.8	....	34.2	17.9	26.0	59	4	18	22	....	82	75	....	.103	.124	....	2.82	.86	9.0	7.9	....	7.8
April	29.211	29.761	28.620	39.4	46.9	....	52.0	33.0	42.5	85	20	32	35	....	76	64	....	.193	.226	....	4.26	1.49	6.2	5.8	....	5.4
May	29.317	29.690	28.937	48.5	58.2	....	63.0	42.2	52.6	94	26	41	42	....	76	59	....	.279	.291	....	2.01	.63	5.4	5.7	....	5.9
June	29.259	29.750	28.970	62.3	72.6	....	76.6	55.0	65.8	94	37	54	56	....	77	58	....	.440	.469	....	.88	.30	4.6	4.7	....	4.6
July	29.241	29.510	28.832	69.5	77.9	....	82.2	63.0	72.6	95	50	63	63	....	80	63	....	.574	.586	....	4.09	2.30	4.5	5.3	....	5.7
August	29.280	29.607	28.850	60.7	70.1	....	73.7	55.2	64.4	90	49	56	58	....	85	67	....	.455	.484	....	1.51	.60	5.7	4.9	....	5.6
September	29.159	29.610	28.610	57.7	64.2	....	67.6	53.0	60.3	92	41	52	52	....	82	66	....	.398	.398	....	1.97	.85	4.9	5.7	....	5.9
October	29.183	29.470	28.620	44.6	50.7	....	53.6	41.5	47.6	70	30	39	40	....	82	69	....	.240	.251	....	1.19	.82	6.5	5.7	....	7.5
November	29.326	29.792	28.857	27.2	30.0	....	33.3	24.1	28.7	45	7	24	24	....	87	76	....	.131	.130	....	1.17	.36	8.7	8.3	....	9.0
December	29.230	29.774	28.530	21.1	23.1	....	27.1	16.5	21.8	41	−6	17	18	....	82	80	....	.098	.103	....	1.88	.90	9.1	9.2	....	9.3
Year	29.253	30.120	28.426	40.9	47.5	....	51.6	35.6	43.6	95	−10	35	37	....	81	69	....	.256	.272	....	27.91	2.36	6.7	6.6	....	7.0

HOUSTON, TEX.

[ϕ=29° 47′ N.; λ=95° 24′ W.]

January	30.027	30.310	29.740	53.9	63.4	....	67.1	51.2	59.2	78	35	51	54	....	90	72	....	0.401	0.437	....	3.58	2.69	5.2	6.3	....	4.4
February	29.986	30.230	29.510	50.5	62.3	....	68.3	48.2	58.2	80	35	47	48	....	88	63	....	.348	.361	....	1.45	.86	5.0	4.2	....	4.2
March	29.887	30.220	29.600	62.8	72.5	....	76.2	61.2	68.7	84	40	61	62	....	93	71	....	.553	.574	....	3.04	1.66	8.0	6.7	....	5.2
April	29.849	30.350	29.450	61.2	72.4	....	75.8	58.3	67.0	87	40	56	56	....	84	59	....	.478	.478	....	3.38	1.35	5.3	4.5	....	3.6
May	29.838	30.050	29.530	68.2	80.9	....	84.5	65.3	74.9	93	58	64	68	....	86	56	....	.605	.590	....	1.57	1.16	3.5	4.6	....	3.8
June	29.779	29.926	29.230	75.7	83.8	....	88.0	71.9	80.0	96	67	70	72	....	84	68	....	.739	.771	....	6.78	3.13	4.7	6.9	....	6.3
July	29.851	30.020	29.640	77.2	86.5	....	90.5	74.5	82.6	94	72	74	73	....	88	62	....	.825	.770	....	1.95	.39	4.5	5.6	....	5.3
August	29.883	30.030	29.760	76.2	89.6	....	93.4	74.4	83.9	100	68	72	69	....	89	52	....	.799	.713	....	1.66	.73	3.1	5.1	....	4.8
September	29.943	29.980	29.710	75.4	86.6	....	88.8	73.7	81.2	93	66	73	73	....	95	64	....	.821	.779	....	4.02	1.31	3.4	7.4	....	5.8
October	29.857	30.150	29.560	60.8	77.9	....	81.0	59.7	70.4	90	48	55	54	....	82	45	....	.458	.440	....	1.15	.59	1.4	2.1	....	2.0
November	29.940	30.180	29.560	59.0	72.9	....	76.4	57.0	66.7	89	42	54	54	....	88	54	....	.450	.457	....	1.91	*1.93	4.2	4.7	....	4.6
December	29.960	30.270	29.500	54.0	64.5	....	70.5	50.1	60.3	82	31	50	51	....	86	65	....	.398	.416	....	3.50	1.48	4.1	6.1	....	6.0
Year	29.888	30.350	29.230	64.6	76.0	....	80.0	62.1	71.1	100	31	61	61	....	87	61	....	.573	.566	....	33.99	3.13	4.4	5.4	....	4.7

* Nov. 30–Dec. 1.

Annual meteorological summary for the year ending December 31, 1921—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	7.8	SW.	64	SW.	2	1	0	0	1	8	38	3	11	0	4	9	18	5	3	14	5	0	0	8	0	30	0	0
February	8.4	SW.	41	S.	1	1	3	2	0	5	32	4	9	0	2	4	22	4	2	10	3	0	0	6	0	20	0	0
March	7.9	SW.	38	S.	0	3	4	0	0	2	31	15	7	0	2	11	18	14	9	19	14	0	1	3	0	22	0	0
April	9.4	SW.	37	SW.	0	3	2	3	2	2	32	7	9	0	4	12	14	11	8	11	7	1	0	2	0	13	1	0
May	7.3	SW.	34	SW.	0	7	7	1	1	6	20	6	13	1	4	6	21	14	7	2	0	0	0	0	0	3	1	2
June	7.6	SW.	39	SW.	0	3	5	0	0	6	32	8	6	0	8	11	11	9	6	0	0	2	0	0	1	0	10	0
July	9.0	SW.	37	S.	0	3	5	2	2	3	36	8	3	0	19	7	5	7	3	0	0	1	0	0	7	0	7	0
August	8.1	SW.	46	SW.	2	4	6	3	3	5	31	4	6	0	14	14	3	8	6	0	0	0	0	0	1	0	10	1
September	9.0	SW.	42	SW.	1	2	1	0	0	4	30	15	8	0	7	10	13	8	3	5	2	0	0	0	0	5	1	4
October	7.8	SW.	34	SW.	0	3	1	0	0	5	37	8	6	2	14	10	7	1	1	1	0	0	0	0	0	4	0	2
November	6.8	SW.	35	SW.	0	1	3	2	0	6	27	7	14	0	0	6	24	12	8	15	10	0	0	8	0	20	0	1
December	5.9	SW.	57	S.	2	2	1	0	0	3	31	6	18	1	5	9	17	9	4	13	9	0	0	17	0	27	0	1
Year	7.9	SW.	64	SW.	8	33	38	13	9	55	377	91	110	4	83	109	173	102	60	90	50	4	1	44	9	144	30	11

HONOLULU, HAWAII.*

[H_b=38 ft.; h_t=111 ft.; h_r=99 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	10.8	E.	45	NE.	2	3	14	43	0	0	1	0	0	1	6	8	17	27	21	0	0	0	0	0	0	0	2	0
February	6.9	E.	33	W.	0	3	13	22	4	3	3	3	1	4	10	15	3	7	5	0	0	0	0	0	0	0	2	0
March	8.1	NE.	28	NE.	0	5	33	10	1	2	4	3	3	1	5	17	9	9	5	0	0	0	0	0	0	0	0	0
April	10.5	E.	29	NE.	0	1	20	34	1	0	0	1	2	1	6	18	6	13	7	0	0	0	0	0	0	0	0	0
May	6.1	NE.	21	E.	0	1	25	20	6	2	1	7	0	0	2	22	7	9	4	0	0	0	0	0	0	0	0	0
June	8.5	E.	25	E.	0	0	13	42	1	2	1	0	1	0	16	16	4	7	3	0	0	0	0	0	0	0	0	0
July	9.0	E.	26	E.	0	0	17	43	2	0	0	0	0	0	7	19	5	12	9	0	0	0	0	0	0	0	0	0
August	7.9	E.	29	E.	0	1	19	41	0	0	0	0	0	1	14	15	2	10	5	0	0	0	0	0	0	0	0	0
September	9.3	E.	26	NE.	0	1	17	41	1	0	0	0	0	0	5	15	10	15	4	0	0	0	0	0	0	0	0	0
October	7.1	NE.	22	E.	0	5	25	24	2	0	0	4	1	1	9	14	8	11	9	0	0	0	0	0	0	0	3	0
November	8.8	NE.	37	NE.	0	5	36	15	0	0	0	2	1	1	3	17	10	10	5	0	0	0	0	0	0	0	0	0
December	8.5	NE.	35	NE.	0	2	27	22	4	1	1	1	2	2	10	10	11	12	11	0	0	0	0	0	0	0	0	0
Year	8.5	E.	45	NE.	2	27	259	357	22	10	11	21	11	12	87	186	92	143	88	0	0	0	0	0	0	0	7	0

*At Honolulu for the observation hours see preceding page.

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	10.7	W.	55	W.	2	1	5	11	1	0	1	7	5	0	3	6	22	13	10	16	10	0	2	22	0	30	0	0
February	9.0	E.	38	NE.	0	1	0	11	1	2	1	6	5	1	0	6	22	18	14	22	18	0	0	17	0	28	0	0
March	10.6	E.	45	W.	3	2	2	16	0	0	1	5	4	1	2	10	19	22	16	23	19	0	2	6	0	28	3	1
April	11.7	E.	45	SW.	2	2	2	13	0	2	2	6	1	2	9	12	9	9	6	6	1	1	0	1	0	11	2	0
May	10.4	E.	34	W.	0	2	1	11	0	0	6	7	2	2	7	14	10	8	7	4	1	0	2	0	2	6	4	1
June	8.7	E.	32	W.	0	0	1	15	0	0	2	10	2	0	8	19	3	8	6	0	0	0	0	0	5	0	5	0
July	7.9	E.	43	NE.	4	1	1	11	0	1	2	14	1	0	8	12	11	8	7	0	0	1	2	0	2	0	11	1
August	8.6	E.	40	W.	1	0	1	13	0	1	4	9	2	1	10	12	9	7	5	0	0	0	4	0	0	0	4	0
September	12.2	W.	50	W.	3	0	0	14	0	1	2	9	3	1	9	9	12	11	7	0	0	1	3	0	1	0	8	3
October	9.2	W.	52	W.	2	3	1	10	0	1	5	9	1	1	2	12	17	13	8	5	5	1	5	0	0	1	1	0
November	9.0	W.	34	W.	0	4	3	5	2	3	1	7	4	1	1	3	26	14	10	21	11	0	0	15	0	27	0	1
December	10.9	NW.	43	NW.	2	5	0	5	2	3	3	6	6	1	0	2	29	15	8	20	15	0	0	24	0	30	0	0
Year	9.9	E.	55	W.	19	21	17	135	6	14	30	95	36	11	59	117	189	146	104	117	80	4	20	95	10	161	38	7

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	SE.	28	S.	0	2	4	3	10	2	4	2	4	0	11	17	3	8	6	0	0	0	5	0	0	0	2	0
February	9.1	SE.	30	NW.	0	2	4	2	8	1	3	3	5	0	15	5	8	7	5	0	0	0	6	0	0	0	2	0
March	10.7	SE.	38	SE.	0	0	4	1	15	5	2	0	4	0	7	17	7	7	6	0	0	0	2	0	0	0	7	0
April	10.9	SE.	35	SE.	0	7	1	3	10	5	0	1	3	0	16	8	6	9	7	0	0	0	0	0	0	0	7	0
May	7.4	SE.	30	NW.	0	2	7	5	8	4	2	0	3	0	14	13	4	6	5	0	0	0	0	0	0	3	4	1
June	8.4	SE.	60	SE.	1	1	8	3	10	5	2	0	1	0	1	21	8	16	7	0	0	0	0	0	0	7	8	0
July	6.5	S.	31	E.	0	0	2	0	7	4	9	2	4	3	4	22	5	10	8	0	0	0	0	0	18	0	6	0
August	6.3	S.	29	NE.	0	1	5	1	2	8	6	3	2	3	5	22	4	7	4	0	0	0	0	0	27	0	8	0
September	6.6	SE.	29	SE.	0	2	2	6	12	1	1	1	1	4	3	19	8	11	11	0	0	0	0	0	19	0	6	0
October	7.9	SE.	25	N.	0	3	14	2	2	3	2	3	1	1	21	10	0	3	3	0	0	0	4	0	1	0	2	0
November	7.4	SE.	33	S.	0	7	5	1	3	5	2	3	2	2	9	16	5	8	5	0	0	0	3	0	0	0	4	0
December	8.3	SE.	31	NW	0	2	2	4	6	0	3	6	6	2	9	8	14	9	8	0	0	0	8	0	0	1	2	0
Year	8.2	SE.	60	SE.	1	29	58	31	93	43	36	24	36	15	115	178	72	101	75	0	0	0	28	0	75	1	58	1

Annual meteorological summary for the year ending December 31, 1921—Continued.

HURON, S. DAK.

[ϕ=44° 21′ N.; λ=98° 14′ W.]

Month.	Pressure.					Temperature.							Moisture.														
		Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
	Monthly mean.	Maximum.	Minimum.	8 a. m.	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	28.685	29.280	28.020	17.7	27.2	26.4	33.1	14.7	23.9	60	−2	14	19	20	83	69	77	0.082	0.104	0.113	0.34	0.13	4.5	6.4	3.1	5.7
February	28.612	29.320	27.790	19.2	33.3	31.6	39.1	15.8	27.4	66	−4	16	24	23	84	69	71	.092	.137	.132	.03	.02	4.6	5.1	3.1	4.0
March	28.581	29.310	28.060	26.2	41.9	39.8	47.7	22.4	35.0	84	2	21	27	26	81	58	61	.117	.151	.144	1.51	1.34	4.9	3.6	5.0	3.9
April	28.506	29.220	27.870	38.4	55.1	55.9	61.0	35.2	48.1	81	20	35	40	40	86	59	58	.210	.260	.264	1.88	.88	4.4	5.1	5.1	4.4
May	28.614	29.050	28.180	50.6	64.4	64.3	68.7	47.6	58.2	87	31	46	47	50	84	56	62	.323	.346	.383	2.66	.67	5.7	6.1	5.8	5.1
June	28.542	29.055	28.130	66.3	81.8	81.9	86.5	61.6	74.0	99	42	60	60	62	79	50	53	.521	.535	.569	.78	.54	3.2	3.3	2.1	2.3
July	28.592	28.880	27.989	67.1	81.7	81.3	86.2	63.4	74.8	97	50	61	63	63	82	56	57	.545	.591	.592	4.17	1.51	3.5	3.1	3.7	3.5
August	28.624	28.990	28.245	61.9	77.6	76.5	81.8	59.5	70.6	94	47	58	61	61	87	59	61	.486	.554	.557	3.22	.90	3.6	3.9	4.1	4.1
September	28.544	28.840	28.030	53.2	69.0	66.6	73.0	50.3	61.6	91	32	48	50	49	82	54	56	.346	.373	.360	4.55	1.71	4.1	4.0	3.6	3.6
October	28.584	28.976	28.130	40.6	60.3	55.1	63.6	38.6	51.1	77	27	34	41	42	80	52	64	.204	.263	.273	.79	.74	3.2	4.2	3.8	3.5
November	28.686	29.150	28.090	22.8	31.4	28.2	35.6	18.4	27.0	67	−8	20	23	23	87	71	80	.109	.133	.131	.42	.14	6.8	5.6	6.0	6.0
December	28.720	29.235	28.051	18.5	28.3	24.2	32.4	13.9	23.2	61	−16	14	20	18	81	70	76	.092	.123	.113	.42	.19	4.6	5.9	3.6	4.9
Year	28.608	29.320	27.790	40.2	54.3	52.6	59.1	36.8	47.9	99	−16	36	40	40	83	60	65	.261	.298	.303	20.77	1.71	4.4	4.7	4.1	4.2

INDEPENDENCE, CALIF.

[ϕ=36° 48′ N.; λ=118° 12′ W.]

January	26.025	26.430	25.570	31.3	45.1	43.8	49.5	27.7	38.6	65	18	22	24	23	66	46	45	0.117	0.130	0.125	0.56	0.44	4.1	5.2	5.3	5.1
February	26.045	26.430	25.610	37.2	56.5	56.8	61.3	32.6	47.0	77	22	20	21	20	49	26	24	.107	.114	.111	.02	.02	1.5	3.2	3.6	3.0
March	25.948	26.270	25.676	41.5	62.2	62.8	66.2	38.6	52.4	77	27	23	23	24	48	23	23	.126	.122	.126	.06	.04	1.2	3.8	3.8	3.4
April	25.913	26.270	25.400	42.1	65.3	65.1	69.3	39.4	54.4	85	27	20	20	19	40	18	17	.108	.107	.106	T.	T.	1.3	2.2	3.8	2.6
May	25.847	26.080	25.530	48.4	68.8	67.5	72.6	46.1	59.4	86	32	32	32	31	56	28	30	.185	.183	.178	.54	.30	3.6	3.9	5.5	4.5
June	25.895	26.074	25.640	61.2	85.2	85.7	89.0	59.6	74.3	100	44	35	33	33	38	16	16	.207	.193	.191	.01	.01	1.0	2.3	3.1	2.5
July	25.957	26.140	25.710	65.9	92.0	93.0	95.2	64.6	79.9	100	54	38	41	42	37	18	19	.246	.273	.283	.06	.03	1.4	1.9	2.5	2.2
August	25.976	26.080	25.833	62.6	88.5	88.6	91.3	60.9	76.1	100	55	38	36	35	42	17	19	.243	.222	.216	.08	.08	.8	2.2	2.7	2.2
September	25.917	26.071	25.715	56.2	81.3	83.1	85.4	53.5	69.4	92	45	27	27	25	33	16	13	.149	.147	.137	.01	.01	.5	.5	1.1	.7
October	26.009	26.420	25.590	48.1	72.9	69.9	75.9	45.5	60.7	85	32	29	29	29	50	22	24	.169	.167	.168	.43	.18	1.3	2.1	2.4	2.1
November	26.055	26.280	25.680	38.4	61.0	56.2	64.8	34.8	49.8	75	20	19	24	23	45	28	30	.102	.135	.130	T.	T.	1.4	2.4	3.0	2.3
December	26.036	26.440	25.530	36.4	50.8	46.7	54.7	32.4	43.6	68	24	22	28	25	56	46	46	.129	.161	.140	1.47	.66	3.7	4.0	4.6	4.2
Year	25.969	26.440	25.400	47.4	69.1	68.3	72.9	44.6	58.8	100	18	27	28	27	47	25	26	.157	.163	.159	3.24	.66	1.8	2.8	3.4	2.9

INDIANAPOLIS, IND.

[ϕ=39° 46′ N.; λ=86° 10′ W.]

January	29.259	29.940	28.690	31.2	36.6	35.4	40.6	28.0	34.3	54	10	27	27	27	84	68	71	0.154	0.162	0.155	2.86	0.86	6.5	6.7	5.3	6.9
February	29.160	29.700	28.705	32.7	38.2	37.5	42.8	29.6	36.2	68	17	28	29	29	81	68	71	.158	.168	.166	1.28	.50	8.6	8.2	7.0	7.9
March	29.174	29.713	28.650	43.9	53.5	53.6	60.8	39.0	49.9	78	19	38	41	40	80	63	61	.246	.281	.299	7.25	2.38	7.2	7.5	6.1	7.1
April	29.136	29.610	28.530	50.1	59.8	58.8	64.9	46.7	55.8	81	28	42	43	44	75	58	61	.284	.303	.310	3.73	.85	5.8	6.4	5.7	5.8
May	29.142	29.430	28.720	60.5	71.2	69.5	74.6	56.0	65.3	91	38	51	50	52	72	49	56	.402	.389	.410	1.55	.73	4.1	3.6	5.4	4.5
June	29.118	29.450	28.850	71.1	81.6	78.8	85.6	66.3	76.0	93	45	63	62	63	76	53	60	.592	.576	.588	3.22	.96	5.2	4.2	6.3	5.4
July	29.136	29.350	28.910	75.3	87.3	84.8	90.7	71.5	81.1	98	62	65	62	62	71	44	49	.623	.567	.580	1.42	.71	2.9	4.5	4.6	4.0
August	29.180	29.400	28.910	67.9	78.7	76.9	82.0	64.4	73.2	88	55	61	61	63	78	57	62	.544	.556	.580	7.26	2.95	4.5	6.0	4.5	5.2
September	29.142	29.356	28.790	65.1	76.0	72.7	79.2	62.3	70.8	87	49	62	64	63	90	67	72	.565	.605	.584	7.54	2.46	6.4	6.1	5.5	5.9
October	29.112	29.590	28.720	49.0	59.9	57.2	63.7	45.1	54.9	78	36	43	43	44	80	58	62	.284	.292	.294	1.70	.63	4.8	4.8	3.4	4.5
November	29.149	29.575	28.820	40.7	47.0	46.1	52.4	36.6	44.5	67	25	37	38	38	87	73	75	.235	.242	.245	8.91	2.66	7.2	6.9	6.7	7.0
December	29.154	29.600	28.444	33.1	37.6	36.5	41.5	29.0	35.2	58	21	28	29	29	80	70	74	.158	.164	.163	3.27	1.90	8.1	7.6	7.5	8.0
Year	29.155	29.940	28.444	51.7	60.6	59.0	64.9	48.0	56.4	98	10	45	46	46	80	61	64	.354	.359	.362	49.99	2.95	5.9	5.0	5.7	6.0

IOLA, KANS.

[ϕ=37° 55′ N.; λ=95° 25′ W.]

January	29.063	29.553	28.580	37.3	41.4	39.6	46.7	30.0	38.4	66	15	29	31	....	82	67	....	0.169	0.184	....	1.77	0.87	6.5	7.6	....	7.5
February	29.002	29.480	28.503	31.7	46.8	45.3	53.8	29.8	41.8	75	18	27	31	....	82	56	....	.149	.178	....	.09	.08	4.1	4.2	....	5.1
March	28.946	29.620	28.490	44.4	56.8	55.2	63.6	40.6	52.1	87	21	38	41	....	79	57	....	.251	.278	....	3.60	1.82	6.2	6.0	....	5.9
April	28.900	29.610	28.370	48.4	61.5	60.6	67.1	45.2	55.2	83	27	42	44	....	78	54	....	.282	.305	....	2.86	.97	5.3	5.0	....	4.9
May	28.958	29.270	28.540	58.9	73.5	71.9	78.6	56.6	67.6	91	37	54	55	....	84	54	....	.434	.459	....	4.85	2.13	5.0	4.8	....	4.7
June	28.885	29.150	28.640	69.3	80.6	79.4	85.6	67.2	76.4	93	57	66	68	....	90	66	....	.649	.632	....	8.41	2.14	6.1	5.9	....	6.3
July	28.958	29.120	28.600	72.2	86.7	84.4	91.8	69.7	80.8	97	61	68	68	....	86	54	....	.681	.680	....	4.03	2.02	4.0	4.2	....	4.2
August	28.960	29.150	28.640	69.7	82.9	80.3	88.5	68.4	78.4	99	57	67	68	....	92	63	....	.668	.704	....	5.79	1.89	5.7	4.8	....	5.3
September	28.908	29.140	28.600	67.0	79.8	74.8	85.5	64.5	75.0	95	42	64	65	....	90	62	....	.607	.633	....	7.10	3.16	6.5	5.0	....	6.0
October	28.924	29.330	28.420	48.2	67.2	61.5	73.4	46.0	60.0	86	31	42	43	....	81	44	....	.275	.289	....	.88	.45	3.8	2.8	....	3.3
November	28.997	29.300	28.550	37.2	51.6	47.3	57.5	33.8	45.6	80	22	32	33	....	83	54	....	.188	.194	....	.13	.13	4.9	4.2	....	5.6
December	29.054	29.470	28.400	30.1	40.4	38.3	47.1	26.1	36.6	70	8	26	29	....	84	66	....	.146	.168	....	.52	.24	5.7	5.6	....	6.6
Year	28.963	29.620	28.370	50.9	64.1	61.6	69.9	48.2	59.1	99	8	46	48	....	84	58	....	.375	.396	....	40.03	3.16	5.3	5.0	....	5.4

Annual meteorological summary for the year ending December 31, 1921—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.	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	NW.	40	NW.	1	1	3	2	16	11	8	4	17	0	9	7	15	7	5	11	6	0	2	14	0	31	0	0
February	10.2	SE.	42	W.	1	8	2	4	16	6	3	5	12	0	14	9	5	2	0	8	1	0	0	11	0	28	0	0
March	10.9	SE.	44	N.	1	9	6	3	15	5	2	11	11	0	15	11	5	7	4	9	4	0	0	2	0	26	2	2
April	11.2	NW.	48	SW.	1	8	3	2	16	4	3	10	14	0	14	7	9	9	5	4	3	1	0	0	0	11	3	1
May	9.8	SE.	42	S.	1	7	10	4	16	7	1	9	8	0	10	11	10	13	8	0	0	0	0	0	0	3	8	5
June	8.7	SE.	27	NW.	0	6	3	5	17	13	6	5	5	0	21	8	1	5	5	0	0	0	0	0	12	0	3	1
July	7.9	SE.	42	W.	2	6	4	7	17	13	3	8	4	0	16	10	5	9	8	0	0	0	0	0	13	0	9	0
August	7.9	SE.	44	NW.	1	5	5	5	19	13	2	4	9	0	11	14	6	11	9	0	0	1	0	0	6	0	9	0
September	9.6	W.	49	NE.	1	4	4	5	13	7	4	16	7	0	18	5	7	14	10	0	0	0	1	0	1	1	8	3
October	8.9	NW.	36	NW.	0	6	3	8	10	4	0	12	19	0	18	6	7	3	2	0	0	0	2	0	0	5	1	1
November	8.5	NW.	28	SE.	0	8	7	3	15	3	2	6	16	0	7	10	13	8	4	11	7	0	0	13	0	30	0	0
December	9.5	W.	38	W.	0	7	0	2	9	5	5	16	17	1	16	4	11	5	5	10	5	0	0	16	0	26	0	0
Year	9.4	SE.	49	NE.	9	75	50	50	179	91	39	106	139	1	169	102	94	93	65	53	26	2	5	56	32	161	43	13

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	6.4	NW.	29	N.	0	11	3	2	3	13	6	1	22	1	12	9	10	5	2	3	3	0	0	0	0	24	0	0
February	7.4	N.	42	SE.	1	14	4	2	10	6	4	3	13	0	17	10	1	1	0	2	0	0	0	0	0	14	0	0
March	7.1	S.	34	W.	0	10	2	1	10	16	5	3	14	1	18	10	3	2	1	0	0	0	0	0	0	1	0	0
April	8.6	NW.	50	NW.	2	12	5	0	8	11	4	3	17	0	19	10	1	0	0	0	0	0	0	0	0	4	0	0
May	6.9	S.	34	NW.	0	4	2	2	4	26	7	6	10	1	13	11	7	6	2	0	0	0	0	0	0	1	0	0
June	6.4	S.	34	SW.	0	4	0	1	9	13	4	9	18	2	23	5	2	1	0	0	0	0	0	0	20	0	0	0
July	5.7	S.	22	W.	0	5	0	1	11	16	5	10	14	0	22	7	2	3	0	0	0	0	0	0	27	0	4	0
August	5.9	S.	22	S.	0	3	0	0	9	29	8	4	7	2	23	7	1	1	1	0	0	0	0	0	23	0	1	0
September	5.1	S.	24	S.	0	1	0	0	11	27	5	2	14	0	26	4	0	1	0	0	0	0	0	0	6	0	0	0
October	4.2	SE.	39	SE.	0	2	1	11	20	12	3	3	10	0	23	6	2	4	4	0	0	0	0	0	0	0	2	0
November	4.1	NW.	25	SW.	0	6	4	5	16	1	2	5	21	0	21	7	2	0	0	0	0	0	0	0	0	8	0	0
December	6.1	NW.	40	SE.	1	1	1	1	14	5	2	14	24	0	16	7	8	6	5	2	1	0	0	0	0	12	0	0
Year	6.2	NW.	50	NW.	4	73	22	26	125	175	55	63	184	7	233	93	39	30	15	7	4	0	0	0	76	64	7	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	13.2	S.	36	NW.	0	4	8	3	4	16	16	5	6	0	5	9	17	12	9	9	6	0	1	8	0	22	0	0
February	12.6	W.	40	W.	1	3	8	6	3	12	8	5	11	0	2	8	18	7	4	9	2	0	2	2	0	16	0	0
March	14.5	S.	46	SW.	2	7	4	5	9	18	10	2	7	0	3	15	13	14	12	1	1	1	0	0	0	7	7	0
April	13.2	S.	38	W.	0	6	1	1	9	19	10	7	7	0	10	6	14	15	10	3	2	0	0	0	0	4	7	0
May	11.0	N.	36	NE.	0	6	13	4	5	12	13	3	6	0	15	10	6	9	8	0	0	1	0	0	2	0	6	1
June	9.8	SW.	29	NW.	0	1	9	4	14	8	13	5	6	0	8	14	8	13	10	0	0	0	0	0	6	0	13	0
July	8.8	S.	40	SW.	1	6	13	5	6	10	11	8	3	0	14	15	2	7	4	0	0	0	0	0	21	0	13	0
August	9.3	S.	42	N.	1	4	6	9	9	13	13	5	3	0	9	15	7	10	8	0	0	0	0	0	0	0	10	0
September	10.0	SW.	50	W.	3	7	6	6	4	16	14	5	2	0	3	20	7	17	15	0	0	0	0	0	0	0	11	0
October	12.4	SW.	36	W.	0	3	2	4	4	19	15	5	10	0	17	3	11	8	6	0	0	0	2	0	0	0	4	0
November	12.6	S.	46	W.	2	9	5	3	10	15	9	3	6	0	5	10	15	12	11	3	2	1	2	0	0	5	8	0
December	13.8	SW.	46	W.	2	6	8	1	6	11	12	6	12	0	3	9	19	11	9	13	4	0	1	1	0	20	0	0
Year	11.8	S.	50	W.	12	62	83	51	83	169	144	59	79	0	94	134	137	135	106	38	17	3	8	11	29	74	79	1

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	7.7	S.	26	S.	0	5	2	3	2	11	1	3	4	0	5	6	20	7	6	2	1	0	1	4	0	23	0	0
February	7.7	S.	32	S.	0	3	1	4	1	4	3	6	6	0	11	10	7	2	1	1	0	0	0	0	0	19	0	0
March	10.2	S.	28	S.	0	6	3	0	6	9	2	3	2	0	9	10	12	10	7	1	0	2	0	0	0	5	4	0
April	9.8	S.	32	SE.	0	3	1	2	5	9	1	1	8	0	12	11	7	12	8	1	0	0	0	0	0	4	4	0
May	6.6	S.	36	W.	0	3	4	4	9	7	2	0	2	0	11	15	5	6	6	0	0	2	0	0	4	0	5	1
June	5.1	S.	24	N.	0	3	2	4	2	13	4	2	0	0	7	10	13	17	14	0	0	0	0	0	8	0	12	0
July	4.8	S.	24	W.	0	4	4	0	9	9	1	0	2	2	15	12	4	5	5	0	0	0	0	0	25	0	5	0
August	5.6	S.	22	NW.	0	3	5	4	8	8	1	1	0	1	11	12	8	14	12	0	0	0	0	0	12	0	10	0
September	6.3	S.	38	NW.	0	3	2	2	4	16	1	0	2	0	8	12	10	12	11	0	0	0	0	0	8	0	9	0
October	7.2	S.	26	N.	0	6	1	1	7	8	3	2	2	1	19	8	4	4	3	0	0	0	0	0	0	1	1	0
November	7.1	S.	25	N.	0	9	1	3	4	7	0	1	4	1	13	4	13	2	1	2	2	0	0	0	0	13	1	0
December	7.6	S.	32	NE.	0	6	5	4	1	5	3	2	5	0	8	8	15	7	5	4	2	0	0	5	0	25	0	0
Year	7.1	S.	38	NW.	0	54	31	31	58	106	22	21	37	5	129	118	118	98	79	11	5	4	1	9	57	90	51	1

Annual meteorological summary for the year ending December 31, 1921—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	30.156	30.590	29.790	52.7	61.6	57.9	65.5	50.5	58.0	74	34	48	49	50	84	66	76	0.349	0.368	0.370	2.04	0.93	3.8	3.9	3.5	4.3
February	30.049	30.320	29.760	52.4	63.3	59.9	68.5	50.6	59.6	81	39	48	48	50	87	62	72	.354	.362	.376	.62	.22	3.7	3.8	2.1	4.2
March	30.107	30.380	29.880	63.9	74.4	68.3	78.0	62.0	70.0	87	50	58	58	60	84	59	76	.511	.496	.527	.57	.46	2.7	4.1	2.7	3.7
April	30.036	30.260	29.780	63.1	72.8	68.4	76.0	59.7	67.8	86	43	56	54	57	79	53	70	.481	.451	.496	1.23	.98	4.6	5.0	3.1	4.1
May	29.933	30.200	29.700	69.1	77.1	73.1	80.5	65.3	72.9	93	47	62	59	61	77	58	70	.572	.536	.571	4.02	1.08	4.7	3.8	3.8	4.0
June	29.946	30.120	29.740	76.6	84.8	79.3	87.4	72.6	80.0	96	67	70	67	68	79	56	71	.724	.660	.701	2.71	1.88	3.9	4.0	4.0	4.0
July	29.997	30.190	29.800	77.1	83.3	78.4	86.2	72.5	79.4	92	68	73	72	72	88	69	83	.821	.780	.795	9.76	2.06	5.6	7.0	7.1	6.1
August	30.039	30.210	29.910	77.6	85.2	78.8	87.5	73.5	80.5	96	66	74	71	72	88	64	81	.835	.766	.793	7.70	2.11	3.0	4.5	3.7	4.0
September	30.003	30.150	29.860	77.0	86.9	79.6	88.9	74.2	81.6	95	70	73	69	72	87	57	79	.803	.720	.787	1.73	.56	1.6	3.2	1.7	3.1
October	29.929	30.230	29.300	65.4	74.0	69.4	76.5	62.0	69.2	87	48	61	62	61	86	68	77	.555	.561	.560	6.37	4.83	4.7	5.3	3.1	5.3
November	30.052	30.230	29.710	60.6	70.2	65.7	73.5	58.2	65.8	82	43	57	61	60	88	73	82	.487	.549	.534	2.27	1.23	3.5	4.5	3.0	4.6
December	30.071	30.350	29.690	54.3	65.1	60.9	68.0	51.4	59.7	76	38	50	52	52	86	66	75	.375	.411	.405	1.60	.91	4.4	4.5	2.5	4.5
Year	30.026	30.590	29.300	65.8	74.9	70.0	78.0	62.7	70.4	96	34	61	60	61	84	63	76	.572	.555	.576	40.62	4.83	3.8	4.5	3.4	4.3

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	29.674	30.210	28.950	23.6	26.2	24.4	28.3	20.7	24.5	41	10	17	18	19	75	70	78	0.101	0.106	0.108	4.13	1.51	6.3	7.6	5.9	7.0
February	29.660	30.401	28.850	30.2	33.5	32.2	35.5	27.3	31.4	46	13	25	26	27	82	75	80	.144	.147	.150	8.86	1.30	6.4	9.0	7.3	8.2
March	29.951	30.480	29.280	28.1	34.2	30.9	35.7	25.8	30.8	49	9	19	19	22	70	58	69	.121	.125	.131	6.53	1.90	5.9	5.9	5.4	5.8
April	29.816	30.358	29.140	38.5	45.6	41.7	47.9	34.2	41.0	58	29	33	33	33	81	63	73	.187	.185	.187	4.03	.71	7.3	8.9	7.5	8.2
May	29.923	30.300	29.460	46.6	52.4	48.2	55.4	39.1	47.2	71	33	38	38	37	73	62	68	.228	.232	.223	6.11	1.48	7.2	7.5	7.2	7.4
June	29.775	30.040	29.340	55.0	63.4	57.6	66.5	46.6	56.6	78	39	47	46	46	75	57	68	.320	.319	.315	1.86	.51	6.0	6.5	6.8	6.5
July	30.010	30.280	29.736	53.2	57.6	54.8	58.7	49.3	54.0	73	44	50	50	50	90	78	86	.362	.357	.366	7.09	1.99	9.3	9.3	9.1	9.4
August	29.900	30.150	29.361	51.3	58.3	54.3	60.9	47.7	54.3	75	42	49	50	50	92	77	88	.346	.365	.366	7.94	1.94	8.8	7.5	6.9	7.3
September	29.727	30.366	28.750	47.1	54.5	49.5	56.3	44.4	50.4	67	35	45	46	46	92	74	88	.299	.311	.310	8.61	1.73	8.6	8.7	7.7	8.5
October	29.606	30.210	28.780	43.2	46.2	44.0	48.7	40.0	44.4	58	33	40	41	41	88	82	89	.246	.258	.258	11.56	2.46	8.2	8.9	8.0	9.3
November	29.821	30.383	29.031	32.0	36.0	33.5	36.8	29.4	33.2	47	14	21	23	22	67	62	65	.129	.140	.138	5.96	2.09	5.2	5.3	5.0	5.2
December	29.828	30.824	28.570	33.8	35.5	33.9	38.5	30.7	34.6	51	20	30	31	30	86	82	85	.171	.173	.170	12.68	2.26	8.0	7.6	7.4	7.7
Year	29.808	30.824	28.570	40.2	45.2	42.1	47.4	36.3	41.9	78	9	34	35	35	81	70	78	.221	.226	.227	85.36	2.46	7.4	7.7	7.0	7.5

* At Juneau, observations at 8 a. m. and 8 p. m., one hundred and thirty-fifth meridian time.

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	26.864	27.330	26.330	23.7	28.7	28.9	33.4	18.8	26.1	48	6	20	21	23	85	72	77	0.109	0.114	0.120	1.29	0.42	6.9	8.0	8.1	7.3
February	26.922	27.360	26.290	25.8	32.9	34.4	38.0	22.5	30.2	53	5	22	25	26	83	72	71	.119	.139	.142	.66	.41	6.6	7.8	7.1	6.7
March	26.842	27.270	26.380	28.7	36.8	38.2	41.1	25.5	33.3	60	5	23	24	24	78	61	61	.126	.132	.133	1.55	.38	7.5	7.0	7.2	6.9
April	26.861	27.244	26.470	34.8	47.4	48.1	51.2	33.0	42.1	66	25	28	27	28	75	46	47	.152	.148	.153	1.17	.43	6.1	6.4	6.8	5.7
May	26.838	27.130	26.450	43.3	59.4	61.4	64.3	41.7	53.0	79	29	34	32	34	70	37	38	.198	.185	.204	.57	.22	4.8	5.7	5.9	5.1
June	26.877	27.070	26.580	50.4	67.5	70.5	73.0	48.8	60.9	83	38	43	42	42	78	43	38	.287	.280	.277	1.22	.35	4.9	5.5	5.1	4.7
July	26.928	27.110	26.700	52.0	73.7	78.1	79.5	50.6	65.0	96	44	40	40	37	67	33	27	.256	.254	.227	.62	.40	3.5	2.5	2.4	2.9
August	26.914	27.130	26.636	50.6	72.9	77.1	78.8	49.2	64.0	89	39	40	42	39	68	35	28	.257	.276	.248	.56	.31	2.3	3.0	3.7	3.3
September	26.917	27.170	26.498	40.5	54.6	56.0	59.5	38.0	48.8	69	27	32	32	32	72	43	42	.179	.183	.182	.79	.48	6.7	6.7	5.9	6.0
October	26.969	27.270	26.580	38.4	54.0	54.2	58.2	34.7	46.4	72	28	31	32	33	73	46	48	.171	.183	.192	1.15	.88	3.4	4.5	4.9	4.5
November	26.914	27.330	26.273	28.0	33.5	32.4	36.8	23.8	30.3	54	−12	24	25	25	85	71	76	.139	.144	.145	2.39	.64	7.4	8.3	8.2	8.3
December	27.039	27.520	26.370	19.0	23.4	23.3	27.2	14.9	21.0	57	−11	15	15	16	84	71	74	.096	.097	.102	1.16	.25	8.1	7.4	7.2	7.3
Year	26.907	27.520	26.273	36.3	48.7	50.2	53.4	33.5	43.4	96	−12	29	30	30	76	52	52	.174	.178	.177	13.13	.88	5.7	6.1	6.0	5.7

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	29.090	29.670	28.610	33.8	39.0	39.2	44.5	30.1	37.3	63	11	27	27	30	76	64	68	0.158	0.160	0.175	1.48	0.44	5.7	6.3	4.5	6.1
February	29.005	29.520	28.480	34.3	44.0	45.2	49.9	31.5	40.7	73	20	27	29	30	74	57	55	.150	.163	.167	.32	.16	4.6	4.4	4.0	4.6
March	28.968	29.690	28.490	44.4	53.4	55.0	61.2	40.6	50.9	85	18	36	36	38	72	55	56	.228	.235	.255	3.60	2.12	5.5	5.4	4.8	5.3
April	28.911	29.620	28.360	49.2	60.2	60.2	65.2	46.6	55.9	83	28	39	40	43	69	50	56	.256	.264	.293	2.71	.81	5.4	4.9	4.9	4.7
May	28.974	29.300	28.630	60.9	72.0	71.9	76.0	58.1	67.0	93	40	52	53	54	73	53	54	.406	.424	.433	7.54	4.12	4.1	4.1	4.6	3.9
June	28.911	29.240	28.710	71.2	80.9	80.9	85.0	69.1	77.0	94	54	65	67	65	82	64	61	.626	.667	.628	9.67	3.52	4.8	4.8	5.0	4.5
July	28.978	29.160	28.620	75.4	85.9	85.8	90.7	72.5	81.1	96	62	67	66	67	75	54	54	.665	.656	.664	1.87	.56	3.3	3.6	3.1	3.4
August	28.974	29.200	28.717	70.9	81.4	81.6	85.2	68.7	77.0	96	59	66	67	67	84	63	63	.638	.664	.677	6.23	2.13	5.4	4.3	3.8	4.4
September	28.921	29.190	28.581	67.3	76.9	75.9	82.3	64.2	73.2	92	46	60	61	62	78	60	64	.541	.566	.582	5.02	1.19	4.6	4.3	3.6	4.3
October	28.923	29.310	28.460	51.4	65.6	64.0	70.1	50.1	60.1	84	39	41	41	42	69	43	47	.261	.270	.252	1.80	.78	2.5	3.2	1.9	3.3
November	29.009	29.340	28.580	38.9	49.3	47.1	54.3	35.4	44.8	76	23	31	31	32	72	53	58	.175	.178	.185	.07	.05	6.0	4.4	3.8	4.6
December	29.066	29.510	28.400	31.1	39.3	38.2	44.3	27.5	35.9	69	7	24	25	26	74	59	62	.135	.146	.146	.50	.28	5.1	4.6	2.9	5.1
Year	28.978	29.690	28.360	52.4	62.3	62.1	67.3	49.5	58.4	96	7	45	45	46	75	56	58	.353	.367	.374	40.87	4.12	4.8	4.5	3.9	4.5

Annual meteorological summary for the year ending December 31, 1921—Continued.

JACKSONVILLE, FLA.

[H_b=43 ft.; h_t=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	12.5	N.	39	NW.	0	13	11	1	4	7	15	4	7	0	14	10	7	4	4	0	0	0	2	0	0	0	0	0
February	11.2	SW.	45	SW.	2	9	8	4	5	3	10	8	9	0	13	8	7	8	7	0	0	0	6	0	0	0	2	0
March	11.8	SE.	42	NW.	1	9	5	8	18	6	5	5	5	1	18	7	6	2	2	0	0	0	1	0	0	0	3	0
April	13.1	SE.	42	SE.	3	6	9	5	15	4	4	5	12	0	13	12	5	5	2	0	0	0	0	0	0	0	3	0
May	12.0	NE.	58	SE.	3	2	17	5	9	8	8	6	7	0	17	10	4	9	8	0	0	0	0	0	5	0	7	0
June	11.3	NE.	51	SW.	1	10	4	12	7	5	12	9	1	0	12	16	2	8	6	0	0	0	0	0	13	0	8	0
July	11.5	S.	44	NW.	4	2	2	5	15	19	15	2	2	0	5	14	12	22	20	0	0	0	0	0	6	0	21	0
August	10.0	S.	48	S.	2	7	8	12	11	11	8	4	1	0	18	11	2	10	9	0	0	0	1	0	11	0	12	0
September	9.3	NE.	35	SW.	0	5	11	11	9	10	5	3	6	0	17	13	0	6	5	0	0	0	0	0	11	0	10	0
October	12.2	N.	64	NE.	3	24	10	3	4	6	2	4	9	0	11	10	10	10	8	0	0	0	1	0	0	0	2	0
November	10.8	SW.	40	SW.	1	10	4	8	4	7	9	15	3	0	15	6	9	8	4	0	0	0	4	0	0	0	3	0
December	12.1	N.	37	E.	0	17	8	4	4	6	8	11	4	0	15	9	7	5	5	0	0	0	4	0	0	0	2	0
Year	11.5	S.	64	NE.	20	114	97	78	105	92	101	76	66	1	168	126	71	97	80	0	0	0	19	0	46	0	73	0

JUNEAU, ALASKA.*

[H_b=80 ft.; h_t=11 ft.; h_r=5 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	6.0	NE.	25	S.	0	5	21	6	12	1	2	6	2	7	6	7	18	17	12	18	14	0	1	20	0	28	0	0
February	4.3	SE.	22	SE.	0	1	11	8	14	3	2	3	4	10	4	2	22	21	19	15	13	0	0	10	0	19	0	0
March	4.8	NE.	23	NE.	0	0	22	8	4	5	2	6	3	12	11	4	16	17	15	10	7	0	1	11	0	19	0	3
April	4.5	SE.	22	E.	0	3	3	14	13	9	4	3	1	10	1	6	23	21	17	8	5	0	1	0	0	6	0	2
May	4.4	SE.	15	N.	0	2	9	14	10	9	4	10	2	2	6	4	21	19	15	1	1	0	0	0	0	0	0	2
June	4.2	SE.	20	SE.	0	1	7	10	22	12	3	1	1	3	5	11	14	10	8	0	0	0	0	0	0	0	0	0
July	3.1	S.	13	SE.	0	3	1	4	14	24	2	1	2	11	1	1	29	22	17	0	0	0	1	0	0	0	0	0
August	2.9	S.	14	SE.	0	5	1	7	9	16	2	7	5	10	9	1	21	19	17	0	0	0	0	0	0	0	0	0
September	3.8	E.	25	SE.	0	1	5	11	13	10	3	6	5	6	2	4	24	21	19	0	0	0	1	0	0	0	0	1
October	4.5	SE.	28	SE.	0	4	0	14	16	7	5	5	5	6	0	5	26	25	23	1	0	0	4	0	0	0	0	0
November	6.3	NE.	30	NE.	0	2	27	12	6	3	2	2	5	1	13	4	13	13	12	7	3	0	0	8	0	18	0	2
December	4.6	SE.	26	SE.	0	2	7	13	16	4	0	6	6	8	6	3	22	22	21	14	13	0	0	3	0	19	0	0
Year	4.4	SE.	30	NE.	0	29	114	121	149	103	31	56	41	86	64	52	249	227	195	74	56	0	9	52	0	109	0	10

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

KALISPELL, MONT.

[H_b=2,973 ft.; h_t=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	4.7	NW.	30	SW.	0	3	3	0	6	6	14	13	17	0	3	10	18	15	8	21	15	0	0	13	0	31	0	0
February	4.2	NW.	25	SW.	0	5	5	2	5	3	9	7	19	1	6	8	14	8	4	11	4	0	0	8	0	25	0	0
March	6.4	NW.	33	NE.	0	3	4	1	11	5	12	8	17	1	5	12	14	13	11	12	10	0	0	5	0	23	0	0
April	6.3	NW.	38	SW.	0	1	4	2	10	6	8	13	16	0	6	15	9	9	8	7	3	1	0	0	0	13	0	0
May	5.8	NW.	35	SW.	0	2	9	2	11	4	6	11	16	1	7	16	8	8	4	1	0	0	0	0	0	2	2	0
June	5.2	NW.	30	SW.	0	3	5	4	14	3	3	10	17	1	9	15	6	14	6	0	0	0	0	0	0	0	5	0
July	5.9	NW.	24	W.	0	1	1	4	16	1	3	13	23	0	23	4	4	6	4	0	0	0	0	0	2	0	6	0
August	5.9	NW.	30	W.	0	0	5	6	8	2	5	9	27	0	21	8	2	5	3	0	0	0	0	0	0	0	3	0
September	6.5	NW.	34	SW.	0	1	3	1	8	5	10	14	18	0	5	13	12	8	4	1	1	0	0	0	0	7	1	0
October	4.8	NW.	24	W.	0	3	1	0	15	5	8	7	23	0	15	5	11	8	3	0	0	0	0	0	0	9	0	0
November	4.8	NW.	22	NW.	0	4	7	1	4	7	4	8	25	0	3	4	23	12	11	12	9	0	0	8	0	22	0	0
December	4.7	NW.	24	SW.	0	4	3	2	2	3	7	8	33	0	4	8	19	14	8	14	10	0	0	21	0	28	0	0
Year	5.4	NW.	38	SW.	0	30	50	25	110	50	89	121	251	4	107	118	140	120	74	79	52	1	0	55	2	160	17	0

KANSAS CITY, MO.

[H_b=963 ft.; h_t=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	12.2	SW.	42	NW.	1	11	5	5	6	13	9	3	10	0	8	11	12	6	6	4	2	0	1	6	0	16	0	0
February	12.6	SW.	47	NW.	3	9	4	2	5	9	10	5	12	0	13	7	8	4	3	4	2	0	2	1	0	20	0	0
March	14.0	S.	57	SW.	1	13	5	3	7	17	10	1	6	0	10	11	10	11	9	3	1	2	4	0	0	5	9	0
April	13.6	S.	45	N.	2	6	3	1	8	21	8	2	11	0	13	9	8	11	8	1	1	1	0	0	0	4	6	0
May	10.5	S.	49	SW.	3	11	2	6	8	16	9	2	8	0	15	11	5	8	8	0	0	5	0	0	3	0	7	0
June	8.4	S.	30	N.	0	5	9	6	9	14	12	2	3	0	15	6	9	12	10	0	0	0	0	0	9	0	11	0
July	7.6	S.	43	N.	1	7	9	5	8	21	8	2	2	0	18	10	3	6	6	0	0	0	0	0	20	0	7	0
August	9.2	S.	44	W.	2	5	5	11	8	21	6	2	4	0	12	13	6	12	9	0	0	0	0	0	9	0	13	0
September	10.2	S.	33	N.	0	5	2	10	12	22	5	2	2	0	15	7	8	15	12	0	0	0	0	0	3	0	11	0
October	11.3	S.	44	NW.	2	8	3	1	12	18	9	1	10	0	16	10	5	7	4	0	0	2	0	0	0	0	4	0
November	10.6	N.	38	NW.	0	13	4	1	10	10	7	4	11	0	14	9	7	4	0	5	2	0	1	1	0	12	0	0
December	12.6	SW.	44	NW.	1	12	5	3	6	7	13	5	11	0	11	9	11	6	3	4	3	0	2	5	0	21	0	0
Year	11.1	S.	57	SW.	16	105	56	54	99	189	106	31	90	0	160	113	92	102	78	21	11	10	10	13	44	78	68	0

Annual meteorological summary for the year ending December 31, 1921—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	29.473	30.150	28.900	30.0	35.5	35.5	41.2	26.6	33.9	62	3	23	24	25	74	63	66	0.133	0.138	0.145	1.92	0.81	5.3	6.4	5.8	6.5
February	29.376	29.900	28.860	31.3	39.1	39.7	45.2	28.2	36.7	74	16	24	27	27	74	62	61	.134	.151	.153	.48	.24	6.6	6.1	4.8	6.3
March	29.349	30.010	28.856	43.3	51.8	51.1	58.8	37.9	48.4	80	15	36	36	37	75	57	60	.231	.235	.243	5.13	2.65	7.1	6.2	5.7	6.2
April	29.290	29.900	28.800	49.5	59.7	58.2	64.1	45.3	54.7	80	28	40	40	41	72	51	56	.268	.268	.275	3.91	.91	5.5	6.5	5.5	6.4
May	29.353	29.671	28.990	51.7	72.7	70.9	75.8	57.4	66.6	92	40	50	50	52	67	46	53	.398	.388	.413	1.72	.74	4.8	5.2	6.3	5.9
June	29.293	29.680	29.100	72.0	82.5	80.1	86.7	68.3	77.5	96	49	64	64	64	78	55	60	.617	.615	.605	2.53	1.33	5.5	6.3	6.4	6.0
July	29.339	29.550	29.060	77.1	87.2	86.1	91.5	72.1	81.8	99	65	66	63	63	70	46	49	.647	.587	.593	.55	.38	3.9	5.1	3.4	4.5
August	29.353	29.660	29.000	69.6	79.2	79.1	83.9	66.3	75.1	96	56	63	63	64	80	59	62	.588	.584	.610	5.34	3.20	5.5	5.1	4.0	5.3
September	29.302	29.580	29.002	66.1	75.8	73.0	80.7	61.7	71.2	94	44	60	59	62	80	59	70	.529	.528	.583	7.48	1.67	6.3	5.0	5.1	5.4
October	29.293	29.750	28.900	49.8	62.6	59.7	66.9	46.3	56.6	84	31	42	42	46	76	50	60	.276	.286	.315	2.56	.83	3.7	4.2	3.2	4.5
November	29.382	29.800	29.000	36.9	43.7	41.5	47.8	32.8	40.3	68	17	32	34	34	82	71	77	.183	.203	.201	1.12	.69	7.8	7.0	5.7	7.4
December	29.409	29.880	28.670	28.7	35.2	35.3	40.4	25.5	33.0	57	2	24	26	27	80	68	72	.132	.145	.156	2.25	1.24	5.1	6.2	4.0	6.1
Year	29.351	30.150	28.670	51.3	60.4	59.2	65.2	47.4	56.3	99	2	44	44	45	76	57	62	.344	.344	.358	34.99	3.20	5.6	5.8	5.0	5.9

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	30.128	30.400	29.940	67.9	72.6	69.2	75.0	66.1	70.6	83	56	63	63	62	84	72	79	0.578	0.584	0.571	1.88	1.52	4.7	4.4	2.9	4.3
February	30.057	30.290	29.870	69.8	74.5	70.4	77.0	66.8	71.9	83	56	63	63	62	80	67	77	.593	.588	.581	1.80	1.57	3.7	2.7	3.5	3.4
March	30.081	30.300	29.950	74.6	78.6	74.7	81.4	71.3	76.4	84	67	66	66	65	74	66	72	.634	.644	.621	.54	.40	2.2	3.3	1.2	2.7
April	30.015	30.180	29.910	76.3	79.8	75.7	82.2	72.2	77.2	83	65	66	65	65	71	62	71	.652	.636	.638	.47	.35	3.7	1.9	3.4	3.1
May	29.940	30.060	29.720	77.6	80.5	76.8	82.9	73.4	78.2	87	66	67	67	67	70	64	73	.679	.673	.675	1.24	.75	4.3	4.5	6.1	5.0
June	29.948	30.100	29.690	81.8	84.3	80.8	86.3	77.0	81.6	90	73	72	72	71	73	68	74	.795	.794	.769	4.09	2.09	5.1	5.0	5.2	5.0
July	30.016	30.160	29.890	82.9	85.2	82.1	87.2	77.2	82.2	90	76	73	74	73	73	68	73	.820	.833	.802	5.72	2.33	5.5	6.8	5.7	6.1
August	30.009	30.150	29.810	83.1	85.8	82.4	88.2	78.1	83.2	90	71	73	73	73	72	66	73	.807	.811	.803	4.52	2.86	5.2	5.1	4.4	5.2
September	29.964	30.090	29.810	81.7	85.6	81.5	87.4	76.9	82.2	90	72	73	73	73	77	68	75	.823	.823	.814	5.45	1.52	4.7	4.4	4.5	4.8
October	29.877	30.010	29.530	79.1	82.0	78.5	83.7	75.5	79.6	89	71	73	73	72	82	75	81	.804	.820	.789	7.54	2.43	6.3	7.4	5.8	6.9
November	30.028	30.170	29.840	74.7	79.2	75.3	80.6	71.6	76.1	84	57	68	68	67	79	70	78	.684	.698	.680	2.67	1.64	4.0	3.0	3.4	3.5
December	30.058	30.210	29.870	71.3	76.1	72.2	77.6	69.2	73.4	83	63	65	66	65	81	71	78	.631	.643	.621	.35	.25	2.5	2.7	1.7	2.5
Year	30.010	30.400	29.530	76.7	80.4	76.6	82.5	72.9	77.7	90	56	68	69	68	76	68	75	.708	.712	.697	36.27	2.86	4.3	4.3	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	29.133	29.630	28.670	37.0	44.9	44.6	50.0	33.8	41.9	67	23	33	32	32	85	64	64	0.193	0.192	0.189	3.40	0.93	7.9	7.0	3.6	6.6
February	29.018	29.383	28.470	38.5	48.4	48.0	53.4	35.8	44.6	73	27	34	35	36	85	63	66	.207	.216	.223	4.65	1.33	6.9	6.5	5.8	6.6
March	29.071	29.315	28.800	52.7	64.2	62.6	70.0	47.4	58.7	83	30	46	47	46	78	56	58	.326	.341	.327	3.61	1.06	6.6	6.1	4.3	6.0
April	29.025	29.370	28.560	53.1	65.3	64.2	71.3	47.4	59.4	87	32	45	42	43	74	45	48	.316	.289	.296	3.16	2.27	4.9	5.1	4.2	5.1
May	28.968	29.290	28.690	61.2	72.3	69.3	76.3	56.1	66.2	91	42	53	52	54	75	51	60	.420	.410	.422	1.85	.53	5.6	6.3	6.1	6.1
June	28.972	29.160	28.730	72.8	84.0	79.3	88.3	68.1	78.2	96	63	65	63	65	77	51	64	.621	.587	.626	3.07	.67	5.5	6.7	6.7	6.6
July	29.001	29.264	28.790	73.1	83.9	79.7	88.0	69.2	78.6	96	66	68	67	67	84	58	68	.682	.664	.669	7.82	2.29	3.8	5.5	7.1	5.5
August	29.045	29.240	28.870	70.9	80.9	78.4	85.3	68.0	76.6	93	61	66	66	67	86	62	70	.650	.648	.668	2.36	.63	6.8	6.4	6.0	6.3
September	29.027	29.180	28.840	70.8	83.3	77.5	87.5	67.4	77.4	94	51	67	65	66	87	55	69	.653	.615	.639	1.63	.53	5.7	7.0	4.5	6.2
October	28.996	29.440	28.520	49.0	65.8	61.7	69.7	45.8	57.8	81	35	43	42	43	81	43	52	.286	.276	.289	1.40	*1.69	3.2	3.3	2.5	3.2
November	29.037	29.337	28.380	44.8	55.5	53.6	60.1	41.6	50.8	78	28	41	44	44	88	67	72	.272	.301	.301	4.74	1.28	7.3	6.9	6.0	6.9
December	29.039	29.370	28.530	40.5	48.4	46.0	52.2	36.6	44.4	64	27	36	35	34	82	61	65	.216	.212	.204	2.26	.84	7.2	6.3	4.7	6.2
Year	29.028	29.630	28.380	55.4	66.4	63.7	71.0	51.4	61.2	96	23	50	49	50	82	56	63	.404	.396	.405	40.45	2.39	6.0	6.1	5.1	5.9

*Oct. 31–Nov. 1.

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	29.319	30.064	28.630	21.6	27.8	26.7	32.3	18.0	25.2	50	−3	19	19	....	88	67	....	0.107	0.109	.....	0.71	0.30	6.0	6.8	6.0	7.0
February	29.247	29.900	28.550	21.1	29.5	29.8	35.2	17.8	26.5	65	7	18	19	....	87	64	....	.100	.109	.....	.53	.22	6.3	6.9	6.2	6.9
March	29.198	29.974	28.640	32.5	41.5	40.3	47.3	28.8	38.0	76	7	28	27	....	82	56	....	.165	.161	.....	1.32	.42	6.5	6.2	5.6	6.4
April	29.142	29.800	28.620	44.8	58.6	56.7	63.2	42.0	52.6	82	26	38	37	....	76	50	....	.242	.243	.....	3.37	1.23	6.2	5.9	6.9	6.6
May	29.241	29.560	28.860	55.6	67.3	65.4	71.7	51.6	61.6	92	31	49	50	....	80	57	....	.379	.405	.....	5.96	1.46	6.4	7.0	6.6	6.8
June	29.192	29.677	28.970	67.2	79.8	77.5	83.4	62.8	73.1	94	43	62	62	....	86	57	....	.571	.596	.....	2.31	.94	5.7	6.3	5.9	6.1
July	29.210	29.500	28.950	71.0	84.6	81.9	88.6	66.4	77.5	98	55	66	65	....	84	54	....	.643	.621	.....	2.36	.67	3.0	4.5	2.8	3.8
August	29.246	29.605	28.890	62.9	77.7	74.6	81.8	59.5	70.6	94	46	59	60	....	86	56	....	.508	.534	.....	1.26	.76	4.5	5.6	3.8	4.6
September	29.158	29.520	28.730	57.8	72.5	66.5	75.7	53.2	64.4	90	41	54	54	....	89	55	....	.441	.435	.....	6.09	2.42	4.4	4.9	5.1	5.1
October	29.161	29.480	28.840	43.5	57.2	52.6	60.6	41.0	50.8	74	30	40	41	....	86	57	....	.249	.269	.....	1.41	.42	5.4	5.6	5.2	5.8
November	29.283	29.740	28.860	27.5	34.4	31.9	37.2	23.2	30.2	55	7	25	36	....	88	71	....	.135	.142	.....	1.54	.88	7.4	8.4	6.3	8.0
December	29.266	29.830	28.549	20.4	26.4	25.4	31.5	15.5	23.5	50	−12	18	19	....	88	73	....	.105	.114	.....	1.06	.84	6.5	7.1	6.3	7.4
Year	29.222	30.064	28.549	43.8	54.8	52.4	59.0	40.0	49.5	98	−12	40	41	....	85	60	....	.304	.311	.....	37.94	2.42	5.7	6.3	5.6	6.2

Annual meteorological summary for the year ending December 31, 1921—Continued.

KEOKUK, IOWA.

[H_b=614 ft.; h_t=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.	0.01 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	7.6	W.	26	W.	0	13	1	4	8	8	7	12	8	1	5	11	15	6	6	6	2	0	0	9	0	22	0	0
February	8.4	N.	35	SW.	0	13	2	5	4	8	8	12	4	0	7	9	12	4	4	4	3	0	0	1	0	24	0	0
March	9.9	NW.	35	SE.	0	7	3	9	5	10	9	5	14	0	5	10	16	13	11	1	0	1	0	0	0	6	8	0
April	10.0	SW.	49	W.	1	6	4	2	11	10	7	12	8	0	5	12	13	13	10	3	2	1	0	0	0	4	5	0
May	7.0	N.	28	SE.	0	13	3	7	8	10	8	9	3	1	8	12	11	5	4	0	0	0	0	0	5	0	5	1
June	5.7	SW.	31	W.	0	8	5	9	8	6	14	7	3	0	6	12	12	9	5	0	0	0	0	0	11	0	10	0
July	5.2	S.	29	SW.	0	10	5	7	2	14	12	5	7	0	10	15	6	6	3	0	0	0	1	0	21	0	4	0
August	6.0	S.	35	S.	0	10	5	8	6	16	7	4	6	0	8	15	8	9	8	0	0	0	0	0	6	0	9	0
September	6.5	S.	40	NW.	1	11	5	7	3	15	13	2	4	0	9	11	10	17	13	0	0	0	0	0	2	0	15	0
October	7.5	S.	34	NW.	0	7	0	7	3	15	10	6	14	0	12	11	8	10	8	0	0	0	0	0	0	2	5	0
November	7.0	N.	22	N.	0	10	4	2	8	11	9	7	9	0	4	9	17	9	5	4	3	1	3	1	0	14	0	0
December	8.9	W.	31	NW.	0	7	4	5	1	14	8	12	10	1	7	14	10	7	5	3	2	0	0	9	0	23	0	0
Year	7.5	S.	49	W.	2	115	41	72	67	137	112	93	90	3	86	141	138	108	82	21	12	3	4	20	45	95	61	1

KEY WEST, FLA.

[H_b=22 ft.; h_t=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.	0.01 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	11.4	NE.	39	N.	0	6	28	16	5	1	1	0	5	0	16	9	6	6	5	0	0	0	0	0	0	0	1	0
February	10.5	NE.	32	NW.	0	11	13	13	6	2	8	1	2	0	16	9	3	5	4	0	0	0	0	0	0	0	1	0
March	10.5	E.	27	E.	0	5	12	31	12	1	0	0	0	1	23	6	2	8	3	0	0	0	0	0	0	0	0	0
April	12.4	SE.	27	E.	0	10	5	17	20	2	1	0	5	0	18	11	1	3	3	0	0	0	0	0	0	0	1	0
May	11.7	SE.	28	NW.	0	3	4	21	19	3	3	0	9	0	10	13	8	10	6	0	0	0	0	0	0	0	7	0
June	7.8	SE.	32	SE.	0	2	10	18	22	3	3	1	1	0	7	20	3	10	8	0	0	0	0	0	1	0	4	0
July	8.6	SE.	30	SE.	0	2	5	14	28	6	2	2	3	0	6	16	9	12	10	0	0	0	0	0	1	0	10	0
August	9.5	SE.	34	S.	0	2	1	33	25	1	0	0	0	0	9	18	4	16	13	0	0	0	0	0	3	0	12	0
September	9.0	E.	33	SE.	0	2	4	32	20	2	0	0	0	0	10	15	5	20	16	0	0	0	0	0	1	0	12	0
October	10.4	SE.	48	SW.	2	4	16	12	9	9	5	3	4	0	6	9	16	22	15	0	0	0	0	0	0	0	6	0
November	10.5	E.	26	E.	0	9	10	22	10	0	0	2	7	0	18	9	3	6	5	0	0	0	0	0	0	0	4	0
December	10.3	NE.	35	NW.	0	8	15	16	9	3	2	1	8	0	20	11	0	3	3	0	0	0	0	0	0	0	0	0
Year	10.2	SE.	48	SW.	2	64	123	245	185	33	25	10	44	1	159	146	60	121	91	0	0	0	0	0	6	0	58	0

KNOXVILLE, TENN.

[H_b=996 ft.; h_t=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.	0.01 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	6.3	NE.	28	SW.	0	10	21	3	0	4	18	6	0	0	5	15	11	10	10	6	3	1	2	0	0	13	1	0
February	6.4	SW.	36	SW.	0	8	13	4	0	3	16	9	3	0	8	3	17	14	11	4	4	0	1	0	0	10	2	0
March	7.5	SW.	33	SW.	0	8	15	2	4	4	20	5	2	2	11	5	15	8	8	0	0	0	1	0	0	2	2	0
April	6.1	NE.	32	S.	0	9	14	0	4	6	10	10	7	0	11	9	10	8	6	0	0	0	0	0	0	1	4	0
May	5.3	NE.	34	SW.	0	13	16	9	4	4	3	8	5	0	7	9	15	11	8	0	0	2	1	0	1	0	6	1
June	5.2	SW.	40	E.	1	4	12	8	3	9	19	1	4	0	5	9	16	9	8	0	0	0	2	0	9	0	14	0
July	5.0	NE.	50	SW.	2	3	21	9	3	7	17	1	1	0	7	15	9	14	13	0	0	1	3	0	13	0	13	0
August	5.4	SW.	30	SW.	0	7	13	2	0	4	23	8	5	0	9	6	16	13	10	0	0	0	1	0	6	0	8	0
September	4.6	SW.	34	SW.	0	3	12	8	4	3	20	7	3	0	4	16	10	8	5	0	0	0	1	0	13	0	7	0
October	5.4	NE.	28	NW.	0	8	21	3	2	2	12	6	7	1	20	7	4	8	7	0	0	0	0	0	0	0	0	0
November	5.5	SW.	36	S.	0	10	14	3	2	5	17	4	4	1	6	6	18	14	11	2	0	0	2	0	0	4	1	0
December	7.0	SW.	36	SW.	0	8	19	1	2	2	25	4	1	0	10	5	16	9	7	1	0	0	1	0	0	8	1	0
Year	5.8	SW.	50	SW.	3	91	191	52	28	53	200	69	42	4	103	105	157	126	104	13	7	4	15	0	42	38	59	1

LA CROSSE, WIS.

[H_b=714 ft.; h_t=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.	0.01 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	5.4	W.	22	NW.	0	2	3	1	7	5	2	7	4	0	7	7	17	7	4	9	4	0	0	14	0	29	0	0
February	5.5	S.	28	SW.	0	5	1	1	1	8	0	5	7	0	8	5	15	9	3	15	9	0	0	14	0	28	0	0
March	6.9	SE.	34	SW.	0	1	2	1	9	8	0	1	9	0	6	12	13	11	7	4	2	1	2	4	0	20	2	0
April	6.9	S.	26	NW.	0	5	3	1	2	12	2	4	1	0	5	11	14	13	10	1	1	0	0	0	0	7	2	0
May	4.3	S.	20	SW.	0	7	2	1	7	8	0	3	3	0	6	7	18	15	12	0	0	1	0	0	1	2	7	3
June	3.3	SE.	17	S.	0	5	2	2	9	7	1	1	1	2	8	10	12	8	8	0	0	0	2	0	8	0	7	0
July	3.8	S.	22	S.	0	3	0	0	7	11	2	5	3	0	16	11	4	10	9	0	0	0	1	0	16	0	12	0
August	3.0	S.	16	SW.	0	4	0	0	5	12	1	3	5	1	9	18	4	6	5	0	0	0	3	0	3	0	6	0
September	4.5	S.	24	SW.	0	3	0	0	7	11	2	1	3	3	12	6	12	11	10	0	0	0	4	0	1	0	10	0
October	5.0	S.	30	NE.	0	3	2	2	4	7	3	4	6	0	10	8	13	7	7	0	0	1	1	0	0	3	2	0
November	4.8	N.	19	NW.	0	11	0	2	2	6	0	5	4	0	4	4	22	12	8	11	8	0	0	10	0	27	0	0
December	5.9	S.	25	SW.	0	6	0	0	3	9	4	2	7	0	7	4	20	10	2	10	8	0	1	13	0	28	0	1
Year	5.0	S.	34	SW.	0	55	15	11	63	104	17	41	53	6	98	103	164	119	85	50	32	3	14	55	29	144	48	4

*By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1921—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	24.614	24.940	24.150	14.9	24.9	23.8	32.9	8.6	20.8	52	−18	6	10	9	68	51	51	0.059	0.067	0.064	0.28	0.24	2.5	4.0	4.8	3.8
February	24.605	25.020	24.010	19.8	32.6	33.6	40.3	15.4	27.8	62	−7	9	18	17	70	54	49	.076	.098	.094	.20	.20	3.4	4.3	4.8	4.0
March	24.541	24.950	24.160	28.2	44.4	46.3	52.3	24.2	38.2	70	12	19	24	23	69	45	42	.104	.125	.124	.69	.26	4.4	4.8	5.5	4.5
April	24.549	25.060	24.080	29.0	46.2	47.0	52.4	26.4	39.4	70	6	21	27	26	72	50	48	.116	.143	.142	2.73	1.98	4.6	4.9	6.6	5.1
May	24.564	24.830	24.160	44.0	59.7	60.6	66.1	41.8	54.0	78	30	33	36	35	66	45	44	.188	.221	.214	5.56	2.38	6.0	5.1	6.4	5.4
June	24.648	24.841	24.300	52.4	71.3	72.7	77.3	49.7	63.5	93	41	41	47	47	65	47	45	.256	.334	.331	2.57	1.26	3.9	4.1	5.5	4.4
July	24.720	24.940	24.300	55.7	78.2	80.2	84.9	52.8	68.8	96	32	42	44	44	60	31	31	.273	.302	.299	.38	.31	2.8	3.5	4.6	4.0
August	24.742	24.940	24.494	53.1	76.4	76.1	82.3	50.7	66.5	92	43	39	43	45	59	32	38	.241	.283	.313	.30	.09	2.6	3.8	5.8	4.0
September	24.641	24.900	24.350	41.1	63.9	66.8	71.9	38.3	55.1	86	28	29	32	33	63	32	30	.162	.183	.189	.13	.08	3.3	2.3	3.2	3.1
October	24.707	24.989	24.270	37.5	60.0	59.3	67.2	33.5	50.4	82	24	26	30	31	63	34	38	.139	.169	.177	.50	.49	2.4	2.4	3.4	2.8
November	24.613	24.960	24.206	28.3	43.4	42.1	51.1	22.6	36.8	70	−1	19	22	22	69	46	47	.104	.122	.118	.43	.42	4.2	5.0	4.5	4.9
December	24.677	25.000	24.090	13.9	22.6	19.9	29.4	7.3	18.4	60	−15	8	12	11	79	64	69	.069	.076	.072	1.67	.57	4.1	4.5	5.4	5.0
Year	24.635	25.060	24.010	34.8	52.0	52.4	59.0	30.9	45.0	96	−18	24	29	29	67	44	44	.149	.177	.178	15.44	2.38	3.7	4.1	5.0	4.2

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	29.154	29.940	28.510	26.0	33.0	28.9	36.2	22.1	29.2	53	6	22	25	24	85	70	79	0.125	0.141	0.130	0.41	0.14	7.4	6.9	5.5	7.3
February	29.072	29.580	28.640	25.6	32.3	29.1	34.8	21.8	28.3	59	9	23	26	24	89	78	82	.125	.145	.132	1.25	.74	7.9	8.1	7.2	8.0
March	29.084	29.770	28.440	35.6	45.2	41.7	50.8	30.0	40.4	76	13	31	35	34	84	70	76	.190	.225	.214	3.34	.76	6.6	7.8	6.7	7.6
April	29.038	29.438	28.400	47.0	57.7	52.3	61.8	41.3	51.6	82	19	40	43	42	77	62	70	.267	.297	.283	3.86	.66	6.2	6.4	5.5	6.5
May	29.080	29.370	28.810	55.8	68.4	63.2	72.0	48.7	60.4	89	30	48	49	50	75	52	62	.359	.373	.387	1.33	.85	5.1	4.8	5.0	5.5
June	29.059	29.480	28.760	66.9	78.4	73.0	82.9	58.2	70.6	94	37	58	60	59	74	55	63	.505	.532	.523	3.24	1.63	3.9	5.4	4.9	5.3
July	29.066	29.245	28.756	71.3	85.9	79.2	89.3	64.6	77.0	97	53	64	64	64	78	49	60	.609	.608	.599	2.61	1.00	2.1	3.4	3.8	4.0
August	29.109	29.399	28.640	62.4	76.5	69.7	79.7	57.5	68.6	88	45	58	58	59	86	56	71	.492	.506	.516	5.18	2.26	5.2	5.5	4.1	5.5
September	29.044	29.380	28.500	59.9	74.9	65.7	77.8	55.3	66.6	89	40	57	60	58	91	61	78	.482	.535	.505	2.64	1.18	5.5	4.9	3.0	5.4
October	29.003	29.420	28.590	44.2	57.4	49.9	60.5	40.5	50.5	75	29	41	44	44	89	63	80	.264	.298	.293	2.85	1.28	4.8	4.5	4.5	5.3
November	29.083	29.540	28.690	32.6	38.6	36.0	41.3	29.1	35.2	59	13	30	32	32	90	79	84	.172	.188	.185	4.06	1.64	8.0	8.3	8.1	8.9
December	29.033	29.510	28.240	26.6	31.7	29.1	34.9	22.0	28.4	54	3	24	26	25	88	77	84	.133	.145	.141	3.54	1.43	8.7	7.3	7.6	8.4
Year	29.069	29.940	28.240	46.2	56.7	51.5	60.2	40.9	50.6	97	3	41	44	43	84	64	74	.310	.333	.326	34.25	2.26	6.0	6.1	5.5	6.5

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	29.225	29.790	28.620	34.0	39.7	....	43.6	30.6	37.1	57	18	29	29	....	80	66	....	0.159	0.159	.....	1.20	0.38	7.9	8.5	....	7.9
February	29.318	29.700	28.720	34.0	42.4	....	46.0	31.8	38.9	58	14	29	30	....	80	62	....	.161	.174	.....	1.06	.25	7.9	8.6	....	7.9
March	29.186	29.650	28.750	39.6	51.8	....	56.2	37.0	46.6	70	30	32	31	....	77	46	....	.188	.175	.....	.96	.37	6.5	6.7	....	7.0
April	29.222	29.550	28.840	40.7	56.3	....	60.1	39.2	49.6	73	28	34	33	....	78	42	....	.200	.191	.....	1.61	.38	7.6	7.9	....	7.7
May	29.095	29.430	28.670	48.6	67.9	....	73.3	46.9	60.1	86	38	41	42	....	76	41	....	.263	.273	.....	1.34	.73	6.9	5.3	....	5.9
June	29.107	29.300	28.780	57.8	77.2	....	83.2	56.2	69.7	94	46	46	48	....	66	36	....	.321	.335	.....	1.05	.42	6.0	6.0	....	6.0
July	29.169	29.370	28.860	58.7	83.6	....	90.6	57.4	74.0	102	46	41	41	....	58	25	....	.264	.266	.....	.22	.21	1.9	1.9	....	1.9
August	29.138	29.360	28.830	60.8	84.5	....	91.3	58.5	74.9	102	48	44	44	....	54	25	....	.294	.290	.....	.07	.06	3.9	2.3	....	3.3
September	29.188	29.480	28.790	48.4	66.1	....	71.5	45.6	58.6	88	33	40	40	....	74	41	....	.255	.254	.....	.79	.31	5.4	5.2	....	5.4
October	29.263	29.550	28.890	43.5	63.1	....	69.1	41.6	55.4	82	30	38	41	....	82	46	....	.238	.259	.....	.81	.36	4.1	4.8	....	4.6
November	29.249	29.650	28.630	35.4	45.9	....	50.0	32.9	41.4	65	22	33	37	....	89	71	....	.188	.221	.....	2.45	.68	7.1	7.7	....	7.6
December	29.376	29.980	28.580	32.0	37.3	....	40.3	28.5	34.4	67	16	26	27	....	77	66	....	.144	.152	.....	.91	.34	7.5	7.2	....	7.3
Year	29.211	29.980	28.580	44.5	59.6	....	64.6	42.2	53.4	102	14	36	37	....	74	47	....	.223	.229	.....	12.49	.88	6.1	6.0	....	6.1

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	29.108	29.700	28.630	34.1	39.1	....	44.6	30.1	37.4	62	16	29	30	....	80	70	....	0.164	0.174	.....	3.24	0.94	7.2	6.6	....	6.5
February	29.003	29.470	28.440	34.2	40.1	....	45.3	31.2	38.2	70	17	30	32	....	85	75	....	.171	.192	.....	2.62	1.13	6.4	8.1	....	7.6
March	29.036	29.452	28.611	49.1	57.0	....	64.8	44.3	54.6	80	23	42	45	....	76	68	....	.279	.318	.....	5.06	1.29	6.8	6.0	....	6.3
April	29.002	29.408	28.460	52.2	61.1	....	66.6	48.4	57.5	85	26	42	44	....	70	56	....	.287	.311	.....	3.28	.92	4.3	5.4	....	4.9
May	28.968	29.260	28.630	60.4	69.1	....	73.5	56.3	64.9	87	39	52	54	....	76	60	....	.417	.429	.....	1.60	.70	4.3	5.5	....	4.6
June	28.954	29.160	28.730	71.8	81.4	....	85.7	66.7	76.2	92	50	63	62	....	74	54	....	.589	.567	.....	2.16	.68	4.7	5.1	....	4.2
July	28.977	29.220	28.780	74.9	85.5	....	89.8	70.7	80.2	96	64	66	62	....	74	48	....	.636	.574	.....	1.04	.60	3.6	5.4	....	4.1
August	29.024	29.210	28.790	69.6	79.6	....	83.5	65.8	74.6	92	55	63	62	....	80	57	....	.581	.573	.....	3.88	1.94	4.9	5.3	....	5.0
September	28.995	29.200	28.710	68.0	76.8	....	81.2	65.2	73.2	90	53	64	64	....	89	66	....	.612	.613	.....	5.10	1.24	5.1	6.1	....	6.1
October	28.967	29.440	28.430	50.7	62.8	....	66.1	47.6	56.8	78	36	41	44	....	72	51	....	.268	.262	.....	2.46	.85	3.1	3.6	....	3.5
November	28.984	29.370	28.370	44.2	51.3	....	56.4	39.6	48.0	74	27	40	42	....	85	73	....	.261	.289	.....	6.89	2.90	6.0	5.6	....	6.4
December	28.999	29.370	28.410	36.9	40.7	....	46.1	31.7	38.9	64	22	32	33	....	82	75	....	.188	.196	.....	5.74	3.04	6.5	7.7	....	7.7
Year	28.991	29.700	28.370	53.8	62.0	....	67.0	49.8	58.4	96	16	47	48	....	79	63	....	.371	.377	.....	43.07	3.04	5.2	5.9	....	5.6

Annual meteorological summary for the year ending December 31, 1921—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	5.2	SW.	44	W.	2	4	6	6	3	3	17	10	10	3	17	11	3	2	2	3	2	0	1	14	0	31	0	0
February	4.6	SW.	62	W.	1	4	5	4	3	3	18	13	6	0	11	16	1	2	2	3	2	0	0	9	0	27	0	0
March	7.1	W.	48	SW.	2	3	5	5	8	8	14	13	5	1	12	17	2	4	3	5	4	0	0	0	0	27	0	0
April	6.0	W.	58	W.	2	6	7	0	2	3	14	16	11	1	8	15	7	6	6	5	5	0	0	2	0	25	1	0
May	6.1	SW.	36	SW.	0	6	8	3	2	4	16	12	10	1	9	15	7	13	9	2	1	0	0	0	0	1	2	0
June	4.8	SW.	46	SW.	1	3	2	5	4	7	17	12	9	1	13	12	5	10	9	0	0	0	0	0	2	0	4	0
July	5.3	W.	40	W.	1	6	5	3	9	5	13	13	7	1	14	16	1	5	2	0	0	0	0	0	9	1	2	0
August	5.1	SW.	44	W.	2	6	2	8	2	5	19	13	6	1	12	17	2	8	3	0	0	0	0	0	2	0	2	0
September	5.8	W.	42	SW.	2	4	4	7	1	3	12	17	11	1	19	11	0	4	2	2	2	0	0	0	0	6	0	0
October	4.3	SW.	40	W.	1	1	9	4	4	5	21	12	4	2	20	10	1	3	2	0	0	0	0	0	0	12	0	0
November	5.6	SW.	60	SW.	5	5	11	4	3	8	8	14	7	0	9	17	4	3	2	3	3	0	2	3	0	27	0	0
December	3.9	SW.	58	SW.	2	4	8	11	4	9	10	9	5	2	12	12	7	7	7	8	7	0	3	21	0	30	0	0
Year	5.3	SW.	62	W.	21	52	72	60	45	63	179	154	91	14	156	160	40	67	49	31	26	0	6	49	13	187	11	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	7.9	SW.	30	NW.	0	3	7	6	3	8	15	8	12	0	4	9	18	9	4	13	5	0	0	10	0	25	0	0
February	6.9	W.	25	W.	0	3	9	6	7	7	8	11	5	0	2	5	21	14	7	19	12	0	0	13	0	28	0	0
March	8.2	SW.	28	SW.	0	5	2	9	11	11	9	6	9	0	5	3	23	16	11	6	2	0	1	2	0	19	5	0
April	7.7	SW.	27	SW.	0	4	5	3	7	18	9	7	7	0	8	6	16	16	15	4	4	0	0	0	0	7	6	0
May	5.8	W.	20	NW.	0	8	12	3	10	5	9	9	5	1	10	10	11	8	4	0	0	0	0	0	0	1	5	3
June	4.0	S.	18	SW.	0	6	8	12	8	10	6	6	4	0	10	15	5	11	8	0	0	0	0	0	3	0	9	0
July	3.6	SW.	32	NW.	0	13	5	5	4	12	13	7	3	0	11	18	2	9	7	0	0	0	0	0	16	0	11	0
August	4.1	SW.	18	NW.	0	6	2	8	6	12	15	5	5	3	7	15	9	7	7	0	0	1	2	0	0	0	6	0
September	4.6	SW.	21	E.	0	4	0	5	12	6	15	7	9	2	8	11	11	15	13	0	0	0	1	0	0	0	9	3
October	6.1	SW.	20	NW.	0	1	6	6	4	10	14	11	10	0	13	9	9	17	10	2	0	0	1	0	0	3	1	1
November	6.4	NE.	30	NE.	0	7	10	2	6	6	11	5	13	0	0	5	25	13	8	10	6	0	5	2	0	23	0	0
December	7.6	NW.	28	NW.	0	6	3	1	6	9	10	11	16	0	0	10	21	15	8	23	11	0	0	12	0	30	0	0
Year	6.1	SW.	32	NW.	0	66	69	66	84	114	134	93	98	6	78	116	171	150	102	77	40	1	10	39	19	136	52	7

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	3.9	E.	25	NW.	0	1	2	16	0	4	5	1	1	1	4	4	23	11	8	5	3	0	0	0	0	20	0	0
February	4.2	E.	25	N.	0	1	2	14	2	2	3	0	2	2	3	6	19	12	8	5	4	0	0	1	0	15	0	0
March	4.7	E.	28	W.	0	2	1	11	2	2	4	6	1	2	4	10	17	9	8	5	4	0	1	0	0	4	0	0
April	4.4	E.	32	NW.	0	1	2	8	3	2	1	5	3	5	2	10	18	14	10	0	0	0	0	0	0	5	0	0
May	3.6	E.	32	NW.	0	1	4	15	3	1	3	0	3	1	7	9	15	8	5	0	0	0	0	0	0	0	1	0
June	3.8	E.	28	SE.	0	2	6	16	0	1	1	3	1	0	7	10	13	8	6	0	0	0	0	0	7	0	7	0
July	3.7	E.	31	NW.	0	1	5	17	2	0	1	1	0	4	24	2	5	3	1	0	0	0	0	0	19	0	2	0
August	3.6	E.	25	W.	0	1	0	14	6	0	1	3	1	5	17	10	4	3	0	0	0	0	0	0	19	0	4	0
September	3.4	E.	24	NW.	0	0	1	14	6	3	2	4	0	0	13	4	13	8	7	0	0	0	0	0	0	0	1	0
October	2.1	E.	24	W.	0	1	1	10	2	2	3	1	4	7	14	5	12	9	6	0	0	1	0	0	0	1	0	0
November	2.5	E.	26	W.	0	1	4	8	4	4	0	3	4	2	4	6	20	16	10	5	5	0	3	3	0	12	0	0
December	3.7	E.	31	W.	0	1	6	8	1	6	2	4	2	1	6	6	19	12	8	5	3	0	0	8	0	20	0	0
Year	3.6	E.	32	NW.	0	13	34	151	31	27	26	31	22	30	105	82	178	113	77	25	19	1	4	12	45	77	15	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	15.8	SW.	47	SW.	2	3	3	3	3	6	6	4	3	0	9	5	17	13	8	7	6	0	0	5	0	17	1	0
February	14.5	SW.	56	SW.	2	1	4	3	2	3	5	5	5	0	4	7	17	14	10	7	6	0	4	6	0	16	3	0
March	17.2	SW.	60	SW.	7	1	3	4	4	9	8	1	1	0	9	7	15	15	13	0	0	0	1	0	0	5	4	0
April	14.6	SW.	50	S.	5	1	1	1	4	9	7	4	3	0	11	9	10	14	9	3	2	1	0	0	0	3	5	0
May	12.1	SW.	40	NW.	1	5	4	2	5	4	3	2	6	0	13	7	11	10	8	6	0	0	0	0	0	0	8	1
June	11.4	SW.	50	NW.	3	1	3	5	7	0	7	5	2	0	15	9	6	11	9	0	0	0	0	0	10	0	8	0
July	10.3	SW.	30	NE.	0	0	5	4	5	5	9	2	1	0	16	10	5	8	7	0	0	0	0	0	14	0	9	0
August	11.2	SW.	45	N.	1	0	2	6	7	3	10	2	1	0	11	12	8	10	7	0	0	1	0	0.	3	0	6	0
September	11.0	SW.	54	SW.	3	0	3	3	2	5	14	1	2	0	7	10	13	19	15	0	0	0	3	0	0	0	12	0
October	13.1	SW.	38	NW.	0	0	2	1	5	9	6	5	3	0	16	10	5	8	8	0	0	0	0	0	0	0	1	0
November	15.4	SW.	56	S.	4	2	3	2	2	6	10	3	2	0	9	4	17	13	10	2	0	0	4	0	0	4	3	0
December	15.3	SW.	50	W.	2	4	1	2	4	3	8	5	4	0	6	3	22	9	6	2	2	0	0	1	0	19	3	0
Year	13.5	SW.	60	SW.	30	18	34	36	50	62	93	39	33	0	126	93	146	144	110	21	16	2	12	12	27	64	63	1

Annual meteorological summary for the year ending December 31, 1921—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	28.810	29.380	28.300	27.9	35.7	34.0	40.5	24.9	32.7	62	10	24	29	28	83	78	79	0.129	0.168	0.160	0.31	0.14	6.0	6.7	5.6	6.7
February	28.739	29.345	27.990	28.9	40.7	40.5	47.2	25.7	36.4	74	11	25	30	30	85	67	68	.135	.168	.174	.37	.15	4.7	5.5	5.0	5.0
March	28.688	29.450	27.950	37.6	51.5	51.9	58.0	33.2	45.6	87	15	30	32	33	73	51	53	.178	.189	.202	.66	.63	5.7	5.1	4.6	4.7
April	28.619	29.350	27.920	45.5	60.6	59.7	65.5	42.4	53.9	89	24	38	40	39	76	52	54	.243	.271	.257	3.04	1.22	3.8	6.1	5.1	5.9
May	28.701	29.090	28.240	57.5	71.9	72.1	75.5	55.1	65.3	96	34	51	52	52	79	54	52	.394	.415	.412	3.10	1.96	5.8	5.6	5.1	5.7
June	28.661	29.050	28.330	68.9	82.7	82.0	86.6	66.3	76.4	100	55	63	64	65	83	58	59	.591	.617	.635	4.43	2.79	4.6	4.6	5.0	5.3
July	28.721	28.940	28.250	71.4	86.4	84.0	89.4	68.3	78.8	96	61	66	68	67	83	55	58	.639	.685	.667	4.75	1.92	5.0	4.2	3.9	4.8
August	28.712	29.000	28.410	67.5	84.4	80.5	88.1	64.6	76.4	103	55	63	67	66	87	56	64	.593	.662	.659	3.43	1.33	5.0	3.8	4.1	5.0
September	28.642	28.970	28.180	61.8	77.7	75.8	83.9	58.7	71.3	101	42	57	62	60	86	61	60	.497	.579	.545	2.81	.87	3.9	4.0	3.8	4.1
October	28.664	29.130	28.120	47.9	66.3	62.9	70.9	45.7	58.3	90	32	38	45	46	71	49	56	.240	.315	.320	.93	.73	3.9	3.2	3.0	3.8
November	28.773	29.133	28.310	30.4	43.1	40.9	48.0	27.0	37.5	69	10	27	31	32	86	66	70	.148	.182	.183	.02	.01	6.0	5.5	5.6	5.8
December	28.825	29.250	28.210	25.5	37.8	34.1	43.3	20.0	31.6	72	−6	20	24	23	78	61	66	.116	.132	.128	.11	.09	4.8	4.0	3.8	4.8
Year	28.713	29.450	27.920	47.6	61.6	59.9	66.4	44.3	55.4	103	−6	42	45	45	81	59	62	.325	.365	.362	23.96	2.79	4.9	4.9	4.6	5.1

LITTLE ROCK, ARK.

[ϕ=34° 45′ N.; λ=92° 16′ 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	29.799	30.250	29.384	42.8	50.1	50.3	55.3	39.1	47.2	71	29	37	38	38	80	66	64	0.234	0.249	0.243	1.52	1.09	6.9	6.4	5.4	6.7
February	29.689	30.100	29.140	41.6	51.9	52.7	58.1	39.9	49.0	75	23	36	38	39	80	61	62	.220	.240	.249	6.86	4.18	5.3	4.1	3.5	4.2
March	29.665	30.120	29.360	55.4	65.2	65.7	70.4	52.2	61.3	84	30	50	50	49	82	62	61	.386	.401	.387	7.03	2.68	6.6	5.3	6.5	5.8
April	29.633	30.180	29.070	53.7	66.0	64.9	70.1	50.6	60.4	83	34	48	49	49	80	57	60	.358	.371	.376	7.40	1.85	4.6	4.5	4.0	4.5
May	29.630	29.860	29.315	63.7	76.5	76.6	80.4	61.4	70.9	95	43	56	55	57	77	49	52	.471	.455	.475	.75	.59	4.0	4.2	3.4	4.0
June	29.578	29.750	29.390	73.5	83.7	81.7	87.4	70.6	79.0	94	67	68	68	69	83	62	67	.689	.698	.711	4.67	.87	4.4	5.4	5.5	4.9
July	29.623	29.820	29.410	75.6	87.5	85.9	91.4	73.1	82.2	99	68	71	69	69	85	56	60	.751	.722	.725	1.44	.51	3.2	3.9	4.0	3.7
August	29.653	29.820	29.450	74.6	86.3	84.1	90.3	72.5	81.4	97	68	71	71	71	88	62	67	.751	.766	.765	7.08	2.09	4.3	3.8	4.6	4.5
September	29.629	29.770	29.420	72.4	84.7	82.1	88.7	70.6	79.6	95	55	70	69	69	91	60	67	.729	.712	.725	2.18	.78	4.2	4.2	3.8	4.2
October	29.635	30.070	29.300	52.9	70.9	67.8	74.9	50.9	62.9	85	41	46	46	48	77	43	50	.316	.332	.344	.14	.07	1.7	2.0	1.9	2.3
November	29.696	30.010	29.250	48.9	60.7	59.3	65.9	45.8	55.8	81	31	43	45	44	80	59	60	.295	.329	.317	3.89	1.77	4.7	5.5	4.7	5.6
December	29.733	30.160	29.120	42.8	50.7	50.3	56.9	39.2	48.0	75	21	36	38	38	77	64	65	.221	.241	.250	2.58	1.14	6.6	6.0	4.8	6.2
Year	29.663	30.250	29.070	58.2	69.5	68.4	74.2	55.5	64.8	99	21	53	53	53	82	58	61	.452	.460	.464	45.54	4.18	4.7	4.6	4.3	4.7

LOS ANGELES, CALIF.

[ϕ=34° 03′ N.; λ=118° 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	29.761	30.120	29.430	48.4	59.6	56.5	62.6	45.6	54.1	79	38	41	42	45	77	56	69	0.257	0.275	0.304	3.22	2.22	3.7	4.0	5.0	4.6
February	29.715	29.970	29.460	51.2	63.4	61.1	67.5	47.4	57.4	82	38	40	42	44	69	50	57	.252	.270	.296	.86	.60	2.9	2.9	3.6	3.2
March	29.664	29.950	29.370	52.8	64.2	62.5	67.6	51.1	59.4	83	44	47	46	48	83	57	64	.329	.325	.336	2.75	1.64	5.3	4.5	4.7	4.7
April	29.643	29.850	29.380	54.4	66.2	63.0	68.5	49.6	59.0	95	42	43	42	43	75	47	52	.281	.284	.284	.28	.15	3.3	4.0	2.5	3.1
May	29.598	29.740	29.420	53.9	62.3	61.4	65.1	52.5	58.8	76	46	51	52	52	91	71	72	.374	.396	.389	3.57	1.12	6.8	6.2	4.5	6.4
June	29.541	29.670	29.360	58.7	70.9	68.6	73.7	57.6	65.6	85	54	56	58	57	91	65	67	.450	.482	.466	.01	.01	7.1	0.3	2.3	4.4
July	29.560	29.700	29.400	63.4	78.8	75.2	81.1	62.4	71.8	86	59	60	61	60	88	56	60	.513	.541	.519	T.	T.	6.1	1.7	.8	2.3
August	29.583	29.720	29.482	62.2	77.7	73.6	80.5	60.8	70.6	90	55	58	60	59	87	55	61	.483	.514	.496	T.	T.	6.2	1.4	.6	2.2
September	29.541	29.710	29.370	61.0	76.4	71.7	79.5	59.1	69.3	101	50	54	57	55	81	53	58	.422	.462	.436	.62	*.89	5.1	1.6	1.6	3.1
October	29.611	29.890	29.431	59.9	72.7	67.9	75.9	57.5	66.7	99	48	52	54	53	80	59	64	.401	.426	.410	.59	.30	3.9	3.2	2.7	3.7
November	29.699	29.900	29.541	56.2	70.4	64.4	73.4	53.1	63.2	94	45	43	44	49	64	45	62	.283	.307	.354	.05	.05	3.0	3.8	3.8	3.4
December	29.694	29.940	29.350	54.9	64.9	62.1	67.9	52.4	60.2	82	46	42	44	48	69	56	65	.291	.310	.350	7.90	2.37	5.5	5.0	4.6	5.0
Year	29.634	30.120	29.350	56.2	69.0	65.7	71.9	54.1	63.0	101	38	49	50	51	80	56	63	.361	.383	.387	19.85	2.37	4.9	3.2	3.1	3.8

* Sept. 30-Oct. 1.

LOUISVILLE, KY.

[ϕ=38° 15′ N.; λ=85° 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	29.619	30.230	29.110	35.3	41.2	41.0	45.9	32.6	39.2	63	18	30	31	32	79	68	72	0.171	0.184	0.198	2.20	0.67	5.9	6.1	5.8	6.0
February	29.510	30.023	28.940	35.6	42.4	42.6	47.0	33.0	40.0	70	20	31	34	35	82	72	74	.179	.204	.211	2.65	1.03	6.8	6.9	6.1	7.2
March	29.522	29.990	29.070	49.5	58.8	58.9	65.8	45.5	55.6	81	25	42	44	46	76	61	64	.285	.314	.332	6.65	2.21	6.0	5.6	4.6	5.8
April	29.475	29.940	28.900	53.2	64.3	62.5	68.7	49.4	59.0	86	32	44	46	47	72	53	60	.304	.329	.343	4.58	1.26	3.8	5.6	4.7	5.1
May	29.448	29.717	29.020	62.2	72.7	70.8	76.4	57.9	67.2	93	39	53	56	55	71	59	60	.417	.462	.459	2.82	1.26	4.0	4.3	4.2	4.0
June	29.423	29.700	29.194	72.8	83.3	81.2	87.2	69.2	78.2	93	54	65	64	64	76	54	57	.621	.613	.605	3.76	1.63	4.7	4.3	5.7	4.5
July	29.444	29.690	29.260	76.5	88.8	85.8	92.4	72.6	82.5	98	64	67	64	64	72	45	50	.659	.600	.602	1.04	.53	3.6	4.2	4.1	3.9
August	29.493	29.690	29.280	71.0	81.6	79.3	85.3	67.7	76.5	96	60	64	64	65	78	58	63	.601	.609	.622	5.40	1.89	4.3	5.2	3.8	4.5
September	29.466	29.670	29.150	69.3	79.4	75.2	83.0	66.3	74.6	92	53	65	65	64	85	63	71	.616	.624	.618	4.29	1.09	5.1	6.3	4.7	5.6
October	29.455	29.980	29.020	50.8	64.8	60.5	68.3	47.6	58.0	82	35	44	44	43	77	49	56	.289	.293	.295	1.88	.78	2.7	3.1	2.3	3.1
November	29.491	29.910	29.890	45.9	52.9	51.2	58.0	41.0	49.5	71	26	40	41	40	82	66	68	.268	.276	.297	8.32	3.17	6.2	6.4	5.6	6.4
December	29.516	29.920	28.875	37.8	42.6	41.8	48.2	33.1	40.6	65	25	31	32	32	77	68	68	.179	.189	.191	5.49	2.83	6.8	7.2	6.4	7.2
Year	29.488	30.230	28.875	55.0	64.4	62.6	68.8	51.3	60.1	98	18	48	49	49	77	60	64	.382	.391	.394	40.08	3.17	5.0	5.4	4.8	5.3

Annual meteorological summary for the year ending December 31, 1921—Continued.

LINCOLN, NEBR.

[H_b=1,189 ft.; h_t=11 ft.; h_r=4 ft.; h_a=84 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	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	9.6	SW.	31	NW.	0	7	5	6	8	10	13	7	6	0	8	7	16	4	3	4	3	0	4	9	0	26	0	0
February	11.1	S.	50	W.	1	8	8	1	2	12	7	8	10	0	10	9	9	6	3	5	4	0	2	4	0	23	1	0
March	12.9	N.	46	NW.	1	19	4	3	6	17	7	1	5	0	15	6	10	2	1	1	0	0	0	1	0	18	1	0
April	12.7	S.	50	NE.	1	9	5	1	9	19	3	5	9	0	9	9	12	11	10	3	1	1	0	0	0	6	1	0
May	10.5	SE	36	NW.	0	6	11	5	16	16	1	3	4	0	8	11	12	8	8	0	0	0	0	0	7	0	4	2
June	7.9	S.	37	S.	0	2	10	9	13	19	2	2	3	0	11	7	12	9	8	0	0	0	1	0	11	0	5	0
July	8.1	S.	36	SW.	0	7	7	3	14	24	5	1	0	1	11	10	10	11	10	0	0	0	0	0	13	0	7	0
August	7.7	SE.	66	W.	1	6	11	10	16	7	6	1	5	0	14	5	12	9	6	0	0	1	1	0	15	0	6	0
September	9.2	S.	49	N.	2	7	5	10	13	17	3	2	3	0	15	9	6	12	9	0	0	0	1	0	6	0	6	0
October	11.5	S.	38	NW.	0	18	3	3	4	21	4	6	3	0	20	5	6	5	5	0	0	0	1	0	0	1	2	0
November	9.5	N.	38	NW.	0	20	7	1	6	13	2	4	7	0	10	8	12	2	0	5	1	0	1	5	0	22	0	0
December	11.0	N.	38	NW.	0	18	9	3	5	7	7	5	8	0	16	7	8	3	1	5	2	0	0	8	0	26	0	0
Year	10.2	S.	66	W.	6	127	85	55	112	182	60	45	63	1	147	93	125	82	64	23	11	2	11	27	52	122	33	2

* By eye observations at this station.

LITTLE ROCK, ARK.

[H_b=357 ft.; h_t=136 ft.; h_r=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	9.1	S.	37	S.	0	12	11	7	6	16	2	4	4	0	6	11	14	6	3	1	1	0	1	0	0	8	0	0
February	10.4	S.	60	NW.	1	13	5	3	6	14	3	6	6	0	15	7	6	8	7	2	2	0	0	1	0	5	3	0
March	11.4	S.	39	S.	0	11	5	5	6	29	4	1	1	0	8	12	11	13	10	0	0	1	0	0	0	1	10	0
April	10.2	S.	48	S.	3	3	1	8	16	15	1	5	11	0	15	6	9	13	11	0	0	1	1	0	0	8	0	0
May	7.5	S.	32	NW.	0	8	8	10	7	15	3	5	6	0	15	10	6	4	3	0	0	0	0	0	3	0	4	1
June	7.7	S.	52	S.	1	2	7	1	7	28	8	6	1	0	12	10	8	13	10	0	0	0	0	0	9	0	15	0
July	6.8	S.	33	NW.	0	6	4	7	3	21	8	5	8	0	18	9	4	8	7	0	0	0	0	0	24	0	12	0
August	6.5	S.	33	NW.	0	2	3	11	12	23	5	2	3	1	12	11	8	11	9	0	0	0	1	0	17	0	10	0
September	7.3	S.	39	E.	0	4	4	2	5	37	4	2	1	1	18	8	4	9	7	0	0	0	0	0	16	0	5	0
October	7.7	S.	42	NW.	1	10	1	8	10	19	2	6	5	1	23	4	4	3	2	0	0	0	1	0	0	0	1	0
November	8.8	S.	43	NW.	2	8	3	8	9	12	3	4	11	2	12	3	15	10	6	0	0	0	0	0	0	1	6	0
December	9.2	S.	39	NW.	0	9	7	4	10	12	4	7	9	0	9	8	14	7	6	0	0	0	1	1	0	5	3	0
Year	8.6	S.	60	NW.	8	88	59	74	97	241	47	53	66	5	163	99	103	105	81	3	3	2	5	2	69	20	77	1

LOS ANGELES, CALIF.

[H_b=338 ft.; h_t=159 ft.; h_r=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	6.0	E.	28	E.	0	4	21	7	3	4	12	7	4	0	13	6	12	11	9	0	0	0	3	0	0	0	2	0
February	5.6	NE.	30	NW.	0	4	12	6	3	3	12	13	3	0	15	9	4	4	2	0	0	0	5	0	1	0	0	0
March	6.1	SW.	39	NW.	0	5	11	6	6	2	18	13	1	0	13	8	10	6	6	0	0	0	3	0	0	0	0	0
April	6.8	SW.	28	NW.	0	2	13	4	4	3	19	11	4	0	18	8	4	2	2	0	0	0	2	0	2	0	0	0
May	6.1	SW.	25	E.	0	0	11	6	8	3	25	7	2	0	5	12	14	7	6	0	0	1	3	0	0	0	1	1
June	5.2	SW.	18	SW.	0	0	2	4	8	4	33	9	0	0	12	13	5	1	0	0	0	0	3	0	0	0	0	0
July	5.0	SW.	15	SW.	0	0	0	6	10	3	29	6	8	0	25	6	0	0	0	0	0	0	3	0	0	0	0	0
August	4.8	SW.	15	SW.	0	3	0	1	9	0	23	16	10	0	27	3	1	0	0	0	0	0	3	0	1	0	1	0
September	4.7	SW.	18	SW.	0	3	8	5	5	3	16	15	4	1	18	10	2	1	1	0	0	0	3	0	3	0	0	0
October	4.7	SW.	17	S.	0	4	7	6	4	4	17	15	4	1	16	6	9	3	2	0	0	0	5	0	4	0	0	0
November	4.8	NE.	21	N.	0	3	21	1	1	3	5	20	6	0	15	11	4	1	1	0	0	0	1	0	2	0	0	0
December	6.6	NE.	43	NE.	1	6	20	6	7	4	6	8	5	0	13	6	12	10	10	0	0	0	0	0	0	0	0	0
Year	5.5	SW.	43	NE.	1	34	126	58	68	36	215	140	51	2	190	98	77	46	39	0	0	1	34	0	13	0	4	1

LOUISVILLE, KY.

[H_b=525 ft.; h_t=219 ft.; h_r=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	13.6	S.	42	S.	1	12	5	2	5	17	8	10	3	0	10	6	15	10	8	7	3	0	0	3	0	16	1	0
February	12.8	S.	44	SW.	1	4	8	3	3	12	11	10	5	0	5	5	18	9	6	6	2	0	1	3	0	13	2	0
March	16.2	S.	66	SW.	8	7	9	5	3	25	5	3	5	0	8	13	10	14	10	2	0	0	3	0	0	4	7	0
April	13.3	S.	58	S.	4	4	3	4	6	23	5	9	6	0	11	8	11	11	8	2	0	1	0	0	0	1	4	0
May	10.8	N.	42	N.	1	15	6	8	5	7	8	8	5	0	18	6	7	9	5	0	0	0	0	0	3	0	5	5
June	9.3	SW.	37	N.	0	9	10	5	5	9	13	6	3	0	13	13	4	8	7	0	0	0	0	0	14	0	12	0
July	8.9	N.	33	S.	0	16	10	3	4	14	8	5	2	0	15	12	4	5	4	0	0	0	0	0	24	0	10	0
August	8.7	S.	37	W.	0	9	9	5	2	16	12	7	0	2	15	10	6	11	9	0	0	0	0	0	5	0	6	0
September	9.4	S.	53	W.	5	7	4	8	1	28	5	4	2	1	8	14	8	14	12	0	0	0	3	0	3	0	11	0
October	11.1	S.	37	S.	0	2	3	3	11	19	8	11	5	0	20	6	5	7	6	0	0	0	1	0	0	0	0	0
November	13.6	S.	52	N.	5	7	6	3	6	23	3	5	7	0	8	7	15	12	12	1	0	1	1	0	0	4	6	1
December	13.9	S.	48	W.	3	10	6	4	6	15	10	6	5	0	6	7	18	8	7	4	1	1	2	1	0	16	2	0
Year	11.8	S.	66	SW.	28	102	79	53	57	208	96	84	48	3	137	107	121	118	94	22	6	3	11	7	49	54	66	6

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1921—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 a. m.	8 p. 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	29.394	30.180	28.690	27.4	29.2	29.0	33.5	23.6	28.6	43	8	23	23	22	84	77	74	0.131	0.129	0.123	0.42	0.11	6.8	6.9	6.4	7.0
February	29.320	29.880	28.740	25.2	29.3	29.6	34.1	21.5	27.8	57	8	21	22	24	83	73	78	.115	.120	.133	1.08	.37	7.6	7.1	7.3	7.2
March	29.308	30.060	28.630	33.7	36.3	36.2	42.7	28.7	35.7	66	15	30	31	30	85	80	78	.174	.179	.176	2.88	.70	7.1	6.9	7.0	7.3
April	29.267	29.760	28.620	44.9	49.0	49.8	54.9	39.4	47.2	74	23	39	40	40	81	73	70	.251	.263	.262	3.38	1.10	5.5	5.4	5.5	5.4
May	29.334	29.610	29.023	53.3	58.5	58.1	63.5	46.8	55.2	78	32	47	48	48	80	69	70	.340	.346	.350	1.82	1.40	4.4	4.8	5.0	4.8
June	29.297	29.748	29.040	65.7	70.3	70.6	75.3	59.1	67.2	87	36	56	56	57	72	62	64	.470	.461	.485	.59	.30	4.0	3.8	4.6	4.0
July	29.297	29.530	28.990	73.6	77.1	77.1	80.8	65.9	73.4	93	53	64	65	62	73	66	61	.606	.620	.566	2.96	1.41	3.8	2.4	2.9	2.7
August	29.337	29.680	28.950	64.4	70.3	68.9	73.0	59.0	66.3	84	47	58	59	58	81	68	71	.496	.506	.505	4.35	2.88	4.4	4.0	3.9	4.2
September	29.257	29.611	28.870	63.2	68.7	66.8	71.4	59.1	65.2	81	43	57	57	58	81	67	73	.482	.481	.492	5.03	2.31	4.9	4.8	2.8	4.5
October	29.232	29.590	28.785	49.0	54.0	51.5	56.9	44.9	50.9	67	36	43	43	44	81	67	78	.282	.283	.301	3.75	1.01	5.4	5.4	5.3	5.3
November	29.344	29.770	28.970	34.1	37.3	36.2	40.0	30.7	35.4	51	21	29	31	30	82	78	76	.162	.173	.164	1.52	.88	8.6	8.1	7.9	8.3
December	29.281	29.762	28.490	28.0	29.8	29.7	34.3	23.8	29.0	54	2	24	24	24	82	78	80	.130	.133	.135	3.55	1.15	8.2	9.1	7.8	8.5
Year	29.306	30.180	28.490	46.9	50.8	50.3	55.0	41.9	48.5	93	2	41	42	41	80	72	73	.303	.308	.308	31.33	2.88	5.9	5.7	5.6	5.8

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 a. m.	8 p. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.430	30.110	28.880	34.4	42.6	39.9	48.4	29.7	39.0	67	13	25	30	31	68	61	68	0.145	0.176	0.177	2.60	1.36	5.7	4.5	3.1	5.2
February	29.329	29.760	28.784	34.4	45.4	43.6	51.1	31.8	41.4	70	23	28	31	34	74	58	69	.153	.182	.204	2.60	1.26	5.3	4.7	3.7	5.3
March	29.408	29.760	29.050	48.9	63.4	60.1	69.4	44.8	57.1	88	25	42	48	50	76	59	70	.286	.354	.382	1.75	.71	4.6	4.5	3.5	4.7
April	29.324	29.656	28.870	52.9	65.7	62.4	70.8	47.4	59.1	91	28	44	51	53	73	60	72	.310	.389	.413	2.76	.73	5.1	4.9	4.2	4.6
May	29.259	29.630	28.920	58.9	69.2	65.5	73.7	52.7	63.2	90	41	51	51	55	77	56	70	.390	.391	.438	6.15	3.05	5.8	6.1	6.0	6.0
June	29.267	29.562	29.020	70.3	80.5	76.1	85.1	63.5	74.3	93	50	61	62	65	74	55	69	.557	.570	.618	1.85	.79	4.6	4.2	5.1	4.6
July	29.296	29.533	29.060	74.2	85.1	78.0	89.1	68.4	78.8	98	58	67	66	67	79	54	70	.663	.640	.659	3.58	1.69	3.6	4.5	4.8	4.2
August	29.357	29.533	29.100	69.4	80.3	76.5	85.5	63.5	74.5	95	52	61	60	62	75	51	63	.545	.524	.578	.83	.31	3.6	4.7	3.3	4.0
September	29.317	29.530	29.070	69.3	81.5	75.1	86.2	64.8	75.5	96	54	62	62	64	79	53	69	.566	.563	.600	1.71	.78	4.2	4.1	3.7	4.5
October	29.299	29.813	28.850	48.3	64.9	59.9	70.9	44.2	57.6	86	31	40	45	49	75	50	67	.260	.306	.355	2.45	1.10	2.9	2.6	1.5	2.5
November	29.324	29.650	28.790	45.4	54.2	51.9	60.3	41.0	50.6	75	26	38	40	42	76	59	71	.240	.259	.287	1.65	.63	5.8	5.3	3.9	5.7
December	29.308	29.897	28.690	37.0	44.5	43.0	51.7	32.9	42.3	71	18	29	31	33	72	58	68	.161	.175	.198	1.01	.43	6.1	4.9	3.9	5.3
Year	29.326	30.110	28.690	53.6	64.8	61.0	70.2	48.7	59.4	98	13	46	48	50	75	56	69	.356	.378	.409	28.92	3.05	4.8	4.6	3.9	4.7

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 a. m.	8 p. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.815	30.360	29.390	41.6	54.7	52.3	60.1	38.6	49.4	72	28	36	38	39	82	57	63	0.229	0.254	0.254	1.75	0.75	5.4	5.6	3.7	5.5
February	29.899	29.980	29.270	44.2	55.8	54.8	60.9	41.7	51.3	77	29	40	40	41	86	59	62	.265	.272	.276	2.24	1.16	5.9	6.0	4.1	6.2
March	29.760	30.040	29.440	55.6	70.5	69.1	76.6	52.7	64.6	87	35	51	52	50	84	54	55	.393	.406	.390	.86	.43	5.1	5.2	3.6	5.1
April	29.695	29.970	29.330	57.4	70.2	67.0	74.7	51.1	62.9	86	33	49	49	48	74	49	53	.357	.376	.359	2.58	1.22	4.3	4.7	3.3	4.3
May	29.601	29.890	29.360	65.8	76.3	73.5	80.6	60.0	70.3	95	45	57	53	56	74	48	58	.489	.436	.474	4.04	1.63	5.4	6.4	4.8	6.0
June	29.609	29.870	29.320	75.6	86.6	82.2	91.1	69.9	80.5	98	62	66	63	64	72	47	56	.641	.586	.604	4.00	1.46	4.6	5.6	6.8	5.6
July	29.642	29.890	29.400	75.9	85.0	79.5	89.5	70.8	80.2	98	68	70	69	70	83	60	75	.740	.704	.739	5.40	1.14	6.4	6.6	7.7	6.8
August	29.696	29.860	29.550	74.5	84.8	79.3	88.7	70.1	79.4	97	63	69	68	69	84	58	73	.717	.693	.721	5.25	2.59	4.7	6.4	5.8	5.9
September	29.658	29.820	29.480	74.1	88.8	82.8	92.4	70.2	81.3	97	62	68	66	68	82	48	61	.693	.641	.678	1.74	.69	2.9	4.4	3.2	4.3
October	29.634	30.022	29.320	54.6	70.4	65.6	74.6	51.2	62.9	86	37	47	46	49	76	45	56	.336	.341	.383	1.66	.64	4.1	3.7	2.2	3.4
November	29.703	30.000	29.260	51.1	63.4	60.9	68.1	48.2	58.2	80	30	46	47	49	85	59	68	.339	.354	.374	4.56	3.04	6.0	6.1	4.6	5.8
December	29.724	30.090	29.270	45.0	58.4	54.4	62.7	41.3	52.0	74	30	40	42	41	83	57	63	.257	.288	.273	1.13	.48	5.1	4.9	4.4	4.7
Year	29.686	30.360	29.260	59.6	72.1	68.4	76.7	55.5	66.1	98	28	53	53	54	80	53	62	.456	.446	.459	35.21	3.04	5.0	5.5	4.5	5.3

MADISON, WIS.

[ϕ=43° 08′ 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 a. m.	8 p. m.	Noon, local time.	8 p. m.	Total.	Maximum in 24 hours.	8 a. m.	Noon, local time.	8 p. m.	Daylight.
January	29.056	29.800	28.410	22.9	27.9	27.2	31.7	19.2	25.4	51	−1	21	25	24	91	87	85	0.119	0.138	0.131	0.22	0.13	5.5	6.5	5.8	6.4
February	28.970	29.580	28.360	23.3	28.8	29.1	33.9	18.8	26.4	63	8	21	24	25	89	81	85	.113	.131	.138	.32	.08	7.5	8.3	6.2	7.8
March	28.955	29.693	28.420	32.8	39.6	39.9	45.8	29.0	37.4	77	9	28	31	32	83	73	73	.169	.191	.163	1.31	1.04	6.1	7.3	6.3	7.5
April	28.900	29.470	28.300	44.7	53.7	53.7	59.5	41.6	50.6	80	24	38	41	42	78	66	67	.249	.276	.275	5.16	1.29	7.0	6.8	7.4	7.0
May	28.998	29.290	28.650	55.2	65.0	63.6	69.5	51.3	60.4	87	34	47	50	50	76	60	65	.355	.388	.395	5.13	2.09	5.9	6.8	6.8	6.6
June	28.954	29.391	28.750	67.0	76.4	76.6	81.0	63.5	72.2	91	45	60	61	62	79	60	63	.544	.557	.583	3.52	1.12	6.7	6.5	6.6	6.8
July	28.976	29.210	28.720	72.4	83.6	81.7	87.8	68.4	78.1	98	60	64	62	64	75	50	56	.603	.573	.602	2.46	1.27	4.8	5.9	4.2	4.7
August	29.006	29.350	28.640	64.6	74.1	72.3	78.2	61.7	70.0	89	53	59	59	60	82	62	67	.509	.525	.533	3.97	1.19	4.9	5.5	5.1	5.6
September	28.923	29.270	28.540	61.0	70.2	67.1	74.0	57.9	66.0	85	44	56	56	56	84	63	70	.486	.476	.470	7.90	1.82	4.9	5.5	4.3	4.8
October	28.906	29.310	28.570	45.8	54.2	51.6	57.7	43.9	50.8	71	31	41	42	44	84	66	76	.262	.278	.297	3.79	1.21	5.4	6.0	5.3	5.5
November	29.005	29.410	28.010	30.4	34.4	33.2	37.4	26.4	31.9	54	12	27	28	29	88	79	85	.150	.156	.160	1.55	.98	8.3	8.3	7.4	8.3
December	28.970	29.480	28.260	22.0	26.0	26.2	31.4	17.5	24.4	51	−4	19	21	23	87	81	86	.111	.122	.129	2.73	1.52	7.5	7.5	6.7	7.5
Year	28.968	29.800	28.260	45.2	52.8	51.8	57.3	41.6	49.5	98	−4	40	42	43	83	69	73	.304	.318	.326	38.56	2.09	6.2	6.7	6.0	6.5

Annual meteorological summary for the year ending December 31, 1921—Continued.

LUDINGTON, MICH.

[H_b=637 ft.; h_1=60 ft.; h_2=53 ft.; h_3=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.	0.01 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	12.7	W.	54	W.	2	4	8	4	9	9	6	12	10	0	6	8	17	11	7	12	8	0	2	12	0	25	0	0
February	10.8	W.	41	SW.	1	8	7	9	7	6	5	8	6	0	4	6	18	14	9	20	13	0	0	12	0	28	0	0
March	12.5	S.	39	S.	0	11	4	5	12	15	3	7	5	0	2	12	17	17	13	9	4	0	2	4	0	22	4	1
April	13.3	S.	44	S.	1	11	2	7	6	25	3	4	2	0	10	10	10	11	10	2	2	0	0	1	0	7	3	0
May	9.5	N.	25	N.	0	15	5	10	3	15	5	7	2	0	13	9	9	6	5	0	0	0	4	0	0	0	5	4
June	7.8	S.	28	S.	0	9	6	10	8	13	7	3	4	0	14	12	4	4	3	0	0	0	1	0	0	0	5	0
July	8.6	S.	34	NW.	0	11	4	3	3	26	7	2	6	0	20	9	2	7	4	0	0	0	0	0	2	0	9	0
August	8.8	S.	32	S.	0	11	2	8	4	20	3	8	6	0	17	7	7	7	6	0	0	0	0	0	0	0	8	0
September	10.8	S.	33	SW.	0	5	4	5	11	9	11	6	8	1	12	12	6	15	12	0	0	0	0	0	0	0	10	3
October	11.7	N.	36	S.	0	12	3	13	8	7	9	7	3	0	10	10	11	18	15	3	0	4	1	0	0	0	4	0
November	10.1	SE.	31	SW.	0	6	17	6	11	1	10	5	4	0	2	6	22	12	8	13	7	0	2	3	0	17	0	0
December	12.9	NW.	45	SW.	2	11	3	3	14	4	5	9	13	0	1	7	23	16	10	21	13	0	0	11	0	27	0	0
Year	10.8	S.	54	W.	6	114	65	83	96	150	74	78	69	1	111	108	146	138	102	80	47	4	12	43	2	126	48	8

LYNCHBURG, VA.

[H_b=681 ft.; h_1=153 ft.; h_2=146 ft.; h_3=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.	0.01 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	7.8	W.	35	NW.	0	13	6	7	3	2	7	18	6	0	13	9	9	6	4	7	4	0	0	3	0	19	0	0
February	7.5	NW.	34	NW.	0	3	11	5	3	2	9	6	17	0	10	7	11	8	6	4	3	0	1	1	0	16	0	0
March	8.7	SW.	35	N.	0	6	5	6	9	5	18	10	3	0	15	8	8	8	8	0	0	0	0	0	0	3	0	0
April	9.2	SW.	33	N.	0	6	6	8	3	7	12	5	13	0	12	12	6	13	11	0	0	0	1	0	1	2	4	0
May	7.2	E.	44	NW.	1	9	7	13	8	4	9	6	6	0	7	12	12	14	10	0	0	0	1	0	1	0	2	1
June	5.5	E.	27	NE.	0	6	10	10	1	5	11	11	6	0	12	13	5	8	7	0	0	0	2	0	10	0	7	0
July	5.9	W.	34	N.	0	7	8	12	4	2	6	16	5	0	11	19	1	10	7	0	0	0	0	0	15	0	10	0
August	6.3	W.	37	NW.	0	4	11	14	3	0	9	14	7	0	14	16	1	9	6	0	0	0	0	0	7	0	4	0
September	5.0	E.	34	W.	0	4	7	15	3	2	7	13	9	0	11	14	5	9	7	0	0	0	2	0	9	0	5	0
October	7.6	NW.	37	NW.	0	4	10	5	4	1	9	11	15	3	22	7	2	4	3	0	0	0	2	0	0	1	0	0
November	7.0	W.	34	NW.	0	4	6	5	3	8	10	14	10	0	7	13	10	8	6	0	0	0	2	0	0	4	1	0
December	7.8	W.	46	N.	2	6	4	7	4	8	11	10	11	1	10	11	10	9	7	0	0	0	0	0	0	17	0	0
Year	7.1	W.	46	N.	3	72	91	107	48	46	118	135	108	4	144	141	80	106	82	11	7	0	11	4	43	62	33	1

MACON, GA.

[H_b=370 ft.; h_1=78 ft.; h_2=71 ft.; h_3=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.	0.01 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	6.4	NW.	24	S.	0	5	9	1	1	10	5	10	18	3	9	9	13	10	8	3	0	0	3	0	0	4	0	0
February	5.8	NW.	24	NW.	0	11	6	3	6	12	5	2	9	2	9	6	13	8	7	0	0	0	5	0	0	3	1	0
March	6.2	S.	26	SW.	0	3	4	10	4	16	10	8	5	2	13	7	11	7	5	0	0	0	3	0	0	0	2	0
April	7.3	NW.	32	NW.	0	9	4	2	7	13	3	4	17	1	13	9	8	5	5	0	0	0	0	0	0	0	3	0
May	5.9	NW.	29	NE.	0	8	16	7	2	7	6	2	13	1	6	12	13	7	5	0	0	1	0	0	7	0	5	1
June	5.3	S.	22	S.	0	4	9	7	5	12	8	6	8	1	8	13	9	12	11	0	0	0	0	0	16	0	13	0
July	5.2	S.	36	NW.	0	3	9	14	8	10	10	5	2	1	2	15	14	15	13	0	0	0	0	0	11	0	18	0
August	4.7	S.	33	N.	0	11	8	11	5	12	5	6	4	0	8	11	12	11	9	0	0	0	1	0	13	0	14	0
September	4.0	S.	29	N.	0	7	3	7	7	16	4	7	8	1	14	12	4	3	3	0	0	0	0	0	25	0	9	0
October	6.5	NE.	30	NW.	0	11	17	3	5	8	4	2	11	1	21	3	7	5	4	0	0	0	0	0	0	0	2	0
November	5.6	NW.	24	W.	0	5	7	6	5	7	4	9	14	3	9	7	14	8	6	0	0	0	4	0	0	1	2	0
December	5.9	NW.	33	SE.	0	10	5	7	2	5	7	12	13	1	13	8	10	6	4	0	0	0	3	0	0	3	0	0
Year	5.7	S.	36	NW.	0	87	97	78	57	128	71	73	122	17	125	112	128	97	80	3	0	1	19	0	72	11	39	1

MADISON, WIS.

[H_b=974 ft.; h_1=70 ft.; h_2=62 ft.; h_3=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.	0.01 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	10.1	NW.	34	S.	0	5	5	2	12	9	8	8	13	0	6	11	14	4	3	11	4	0	3	15	0	28	0	0
February	9.6	W.	40	NE.	1	8	4	0	12	7	6	12	6	1	2	9	17	6	4	12	6	0	1	13	0	28	0	0
March	11.6	NW.	48	SW.	1	6	3	5	12	12	6	5	13	0	4	7	20	11	5	4	0	0	6	4	0	22	4	0
April	12.2	S.	49	NE.	3	5	7	1	7	16	14	3	7	0	5	9	16	15	13	4	4	1	0	1	0	6	6	0
May	8.6	S.	39	N.	0	7	9	4	12	7	8	4	10	1	4	12	15	12	11	0	0	1	0	0	0	0	7	2
June	6.3	SE.	27	SE.	0	7	10	6	12	7	4	7	6	1	5	10	15	10	8	0	0	0	0	0	3	0	11	0
July	6.4	SW.	25	SW.	0	8	6	1	3	13	15	9	6	1	10	16	5	6	6	0	0	1	0	0	11	0	9	0
August	6.9	S.	37	NW.	0	5	2	2	8	18	12	3	11	1	4	22	5	7	7	0	0	1	1	0	0	0	6	0
September	8.5	SW.	35	S.	0	2	3	2	12	13	10	10	8	0	12	9	9	13	12	0	0	0	1	0	0	0	11	1
October	10.3	NW.	42	NE.	1	5	4	3	10	10	9	10	11	0	9	9	13	14	12	1	0	1	1	0	0	1	3	0
November	10.2	N.	30	N.	0	12	10	0	8	7	5	8	9	1	2	4	24	10	7	11	7	0	0	7	0	21	0	0
December	10.5	NW.	40	W.	1	11	0	2	4	12	9	8	16	0	6	5	20	12	8	10	7	0	2	14	0	28	0	0
Year	9.3	S.	49	NE.	7	81	63	28	112	131	106	87	116	6	69	123	173	120	96	53	28	5	15	54	14	134	57	3

Annual meteorological summary for the year ending December 31, 1921—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							58.3	34.2	46.2	71	26										1.50	0.62				
February							55.2	34.9	45.0	66	26										4.04	2.06				
March							68.2	43.1	55.5	84	33										2.06	.90				
April							71.5	52.6	61.7	84	39										6.00	1.66				
May							72.5	54.7	63.6	89	39										4.38	1.34				
June							81.1	63.4	72.2	91	49										2.26	1.36				
July							86.2	70.5	78.4	94	66										8.94	3.34				
August							84.4	68.0	76.2	94	57										3.12	1.54				
September							85.1	67.0	76.0	92	59										1.26	.60				
October							72.1	51.6	61.8	86	38										1.23	.74				
November							66.2	47.0	56.6	74	37										1.89	1.63				
December							58.5	37.6	48.0	73	20										3.46	1.78				
Year							71.6	52.0	61.8	94	20										40.14	3.34				

MARQUETTE, MICH.

[ϕ=46° 34′ N.; λ=87° 24′ W.]

January	29.276	30.074	28.440	20.2	25.2	23.7	29.6	17.2	23.4	49	1	16	19	18	84	75	79	0.095	0.103	0.103	2.28	0.76	8.6	7.7	5.9	7.6
February	29.218	29.851	28.425	20.9	26.4	24.1	30.2	16.8	23.5	49	2	18	20	19	87	76	80	.101	.110	.105	1.29	.38	8.7	8.8	6.9	8.0
March	29.219	30.036	28.476	26.1	29.8	28.6	35.5	21.4	28.4	58	7	23	35	23	86	80	78	.128	.138	.127	2.95	.67	8.8	8.3	7.0	8.0
April	29.175	29.703	28.515	41.9	46.3	44.2	53.3	36.0	44.6	82	22	35	36	33	76	71	68	.212	.229	.202	4.10	1.50	7.0	6.9	5.5	6.3
May	29.269	29.600	28.888	49.6	53.9	54.0	59.9	43.3	51.6	94	28	40	42	42	72	66	65	.269	.280	.284	1.67	.71	5.7	7.5	6.0	6.4
June	29.207	29.699	28.910	64.1	67.8	65.9	74.8	55.7	65.2	92	39	56	60	59	76	76	78	.465	.534	.515	1.52	.62	4.4	6.1	6.4	5.5
July	29.197	29.460	28.803	71.7	76.3	71.9	81.1	63.6	72.4	95	53	63	64	64	75	68	78	.580	.611	.612	4.39	1.25	4.0	5.6	5.9	5.5
August	29.233	29.566	28.870	62.1	68.0	65.7	72.6	55.9	64.2	90	49	54	55	58	74	67	78	.419	.449	.493	3.48	1.23	5.7	7.1	6.9	6.2
September	29.125	29.560	28.610	59.2	67.3	62.0	70.6	53.8	62.2	91	44	50	53	54	73	63	77	.374	.414	.434	4.30	2.60	4.9	7.0	5.4	6.3
October	29.144	29.426	28.610	44.7	50.9	47.9	53.7	41.6	47.6	71	32	38	40	40	77	68	78	.230	.252	.251	1.29	.29	6.9	7.3	5.8	7.5
November	29.268	29.770	28.840	27.9	31.6	29.7	35.0	24.8	29.9	46	6	23	25	25	81	76	83	.128	.136	.137	1.97	.49	8.6	9.0	8.1	8.7
December	29.176	29.679	28.380	21.0	24.4	22.3	28.4	17.4	22.9	42	−3	17	19	18	84	78	81	.099	.104	.101	2.04	.83	8.9	8.6	8.0	8.7
Year	29.209	30.074	28.380	42.4	47.3	45.0	52.1	37.3	44.7	95	−3	36	38	38	79	72	77	.258	.280	.281	31.28	2.60	6.8	7.5	6.5	7.1

MEMPHIS, TENN.

[ϕ=35° 09′ N.; λ=90° 03′ W.]

January	29.800	30.250	29.350	43.0	48.5	49.0	53.9	40.5	47.2	68	27	36	38	38	76	69	66	0.225	0.249	0.236	1.84	0.91	6.2	5.6	5.5	6.0
February	29.683	30.110	29.180	42.1	48.5	51.1	54.9	40.4	47.6	73	26	35	38	40	76	68	66	.213	.241	.256	6.09	1.86	5.3	4.7	4.2	4.9
March	29.688	30.080	29.400	56.0	64.1	64.1	69.8	52.9	61.4	83	30	48	50	49	76	62	61	.367	.386	.380	7.41	2.71	6.3	4.4	4.1	5.0
April	29.655	30.122	29.150	55.5	64.6	64.7	69.5	52.5	61.0	85	35	47	46	47	73	53	55	.343	.333	.347	11.64	3.12	4.2	4.1	3.9	4.6
May	29.631	29.840	29.270	64.9	74.4	75.3	79.1	62.3	70.7	93	43	54	53	54	69	50	49	.441	.427	.435	1.27	.74	3.4	4.6	4.9	4.3
June	29.583	29.730	29.413	75.6	84.3	82.5	88.3	73.0	80.6	95	66	67	68	68	77	60	62	.676	.662	.679	2.15	.82	3.1	5.0	5.7	4.8
July	29.618	29.830	29.420	77.5	86.0	85.3	90.7	74.5	82.6	96	69	70	71	70	78	61	62	.738	.752	.749	3.19	1.14	2.9	3.7	4.3	3.7
August	29.654	29.790	29.514	75.6	84.3	82.9	88.2	73.4	80.8	95	68	69	70	71	80	64	69	.713	.748	.764	5.84	1.19	3.6	3.9	4.6	4.2
September	29.629	29.770	29.450	74.3	83.9	81.2	87.6	72.4	80.0	94	57	70	74	72	86	72	75	.731	.842	.804	1.58	.99	4.7	4.5	4.2	4.2
October	29.634	30.050	29.330	55.3	68.3	65.9	72.7	53.1	62.9	84	40	46	51	51	71	55	61	.314	.383	.391	1.40	1.18	2.6	1.9	2.0	2.3
November	29.690	29.980	29.358	51.2	59.3	58.7	64.6	46.9	55.8	80	30	44	47	45	76	65	64	.306	.325	.323	4.59	1.43	6.5	5.6	3.5	5.5
December	29.726	30.120	29.150	43.8	49.1	49.9	55.8	40.4	48.1	73	27	36	38	40	76	68	69	.225	.241	.259	2.53	1.03	5.9	7.1	5.2	6.6
Year	29.666	30.250	29.150	59.6	67.9	67.6	72.9	56.9	64.9	96	26	52	54	54	76	62	63	.441	.469	.469	49.53	3.12	4.6	4.6	4.3	4.7

MERIDIAN, MISS.

[ϕ=32° 21′ N.; λ=88° 40′ W.]

January	29.807	30.210	29.450	45.0	55.6	54.0	61.1	41.5	51.3	73	28	40	40	42	82	59	65	0.262	0.271	0.281	3.27	2.12	5.5	6.0	3.5	5.6
February	29.691	29.970	29.290	45.4	56.3	56.0	63.0	42.0	52.5	80	29	41	41	42	84	59	62	.280	.281	.288	3.87	1.23	5.0	4.4	3.4	4.4
March	29.713	29.990	29.480	59.0	71.3	68.3	76.7	55.3	66.0	85	35	55	53	54	86	55	62	.459	.431	.439	6.53	2.04	6.4	5.6	5.0	5.3
April	29.672	30.088	29.220	55.4	67.9	66.5	72.5	51.9	62.2	85	36	50	47	51	82	50	60	.378	.358	.410	6.67	3.40	4.6	4.6	4.5	4.3
May	29.610	29.830	29.360	65.0	77.4	75.4	81.1	59.8	70.4	93	41	58	57	59	78	51	58	.498	.488	.519	1.56	.81	3.5	5.7	5.2	4.5
June	29.597	29.748	29.420	75.3	86.5	83.5	91.2	70.0	80.6	96	64	68	64	66	78	48	57	.687	.591	.636	2.77	1.97	3.0	5.1	5.0	4.1
July	29.627	29.840	29.440	75.9	87.5	83.1	91.7	71.4	81.6	98	66	70	68	69	83	53	64	.735	.680	.703	3.76	1.26	3.3	6.0	6.1	5.0
August	29.667	29.820	29.550	74.3	87.3	82.4	91.1	71.5	81.3	100	64	70	69	70	88	55	69	.748	.711	.746	3.80	1.06	4.4	5.1	6.0	4.7
September	29.641	29.780	29.540	73.5	87.8	81.4	91.3	71.3	81.3	97	64	70	68	70	89	52	69	.735	.680	.735	.85	.42	3.4	5.1	4.6	4.0
October	29.624	29.950	29.330	52.7	71.6	66.5	76.0	50.6	63.3	87	38	47	48	50	80	46	57	.336	.302	.377	1.20	.61	3.0	2.6	1.1	2.5
November	29.703	29.940	29.420	50.6	66.0	61.6	71.4	47.8	59.6	84	33	47	50	51	88	58	69	.351	.389	.394	1.23	.75	5.0	5.3	2.2	4.5
December	29.728	30.010	29.247	46.6	58.7	55.3	63.8	41.7	52.8	78	29	42	44	44	83	62	68	.287	.316	.306	3.29	1.17	5.7	5.9	4.5	5.3
Year	29.673	30.210	29.220	59.9	72.8	69.5	77.6	56.2	66.9	100	28	55	54	56	83	54	63	.480	.463	.486	38.80	3.40	4.4	5.1	4.3	4.5

Annual meteorological summary for the year ending December 31, 1921—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.	0.01 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	.....	NE.	....	.....	....	6	9	3	1	2	7	2	1	0	18	7	6	3	3	0	0	....	....	0	0	10	....	....
February	.....	SW.	....	.....	....	7	6	1	0	1	8	1	4	0	11	4	13	6	6	0	0	....	....	0	0	5	....	....
March	.....	SW.	....	.....	....	2	6	2	2	6	12	0	1	0	21	4	6	3	3	0	0	....	....	0	0	0	....	....
April	.....	SW.	....	.....	....	2	5	5	3	4	10	1	0	0	18	1	11	9	9	0	0	....	....	0	0	0	....	....
May	.....	NE.	....	.....	....	0	14	2	2	3	8	1	1	0	11	9	11	9	8	0	0	....	....	0	0	0	....	....
June	.....	SW.	....	.....	....	5	8	1	1	4	10	1	0	0	20	5	5	4	4	0	0	....	....	0	0	5	....	....
July	.....	SW.	....	.....	....	0	1	0	2	4	23	1	0	0	12	9	10	9	9	0	0	....	....	0	3	0	....	....
August	.....	NE.	....	.....	....	0	14	1	3	2	11	0	0	0	14	8	9	6	6	0	0	....	....	0	7	0	....	....
September	.....	NE.	....	.....	....	0	12	5	2	2	8	0	1	0	20	10	0	4	4	0	0	....	....	0	5	0	....	....
October	.....	NE.	....	.....	....	2	9	2	1	2	7	5	3	0	17	6	8	3	3	0	0	....	....	0	0	0	....	....
November	.....	W.	....	.....	....	4	6	1	3	4	4	6	2	0	19	5	6	4	4	0	0	....	....	0	0	0	....	....
December	.....	NW.	....	.....	....	5	3	0	1	3	8	3	8	0	15	5	11	4	4	0	0	....	....	0	0	4	....	....
Year	.....	SW.	....	.....	....	33	93	23	21	37	116	21	21	0	196	73	96	64	63	0	0	....	....	0	20	19	....	....

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.	0.01 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	10.5	W.	37	SW.	0	1	1	1	8	12	10	16	13	0	4	7	20	13	8	17	12	0	0	19	0	30	0	0
February	10.5	W.	39	SW.	0	0	2	2	9	9	12	12	10	0	1	9	18	11	9	19	11	0	0	17	0	28	0	0
March	11.1	W.	49	SW.	3	2	2	5	13	10	7	11	12	0	2	9	20	22	13	21	18	0	0	15	0	28	3	0
April	11.7	W.	44	S.	2	2	1	8	10	7	8	20	4	0	9	6	15	12	9	4	3	0	0	1	0	8	2	2
May	9.7	W.	36	S.	0	1	0	9	10	7	7	17	11	0	5	12	14	13	8	4	2	0	4	0	1	5	5	0
June	7.6	S.	44	S.	1	0	1	10	8	15	10	9	7	0	9	10	11	8	7	0	0	0	0	0	2	0	6	0
July	8.3	S.	41	SW.	1	1	0	8	9	14	12	6	12	0	6	15	10	13	10	0	0	0	0	0	4	0	9	0
August	9.1	W.	37	S.	0	1	3	6	5	11	13	14	9	0	4	20	7	10	8	0	0	0	2	0	0	0	3	0
September	10.8	W.	41	SW.	1	2	0	8	8	5	19	15	3	0	6	10	14	12	8	0	0	0	1	0	1	0	4	1
October	10.2	NW.	51	W.	2	0	4	5	8	8	12	14	11	0	3	10	18	15	7	4	4	0	5	0	0	1	0	0
November	9.9	W.	38	SE.	0	0	0	4	10	5	13	13	15	0	2	3	25	16	12	22	15	0	0	9	0	25	0	0
December	11.4	W.	39	S.	0	0	0	2	6	7	16	18	13	0	1	5	25	22	10	23	21	0	1	22	0	31	0	1
Year	10.1	W.	51	W.	10	10	14	68	104	110	139	165	120	0	52	116	197	170	109	114	86	0	13	83	5	156	32	4

MEMPHIS, TENN.

[H_b=299 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.	0.01 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	9.1	S.	32	W.	0	14	10	2	13	12	7	2	2	0	11	4	16	8	6	4	1	0	0	0	0	4	1	0
February	10.0	N.	32	SW.	0	16	4	5	6	14	5	2	4	0	12	6	10	9	9	3	2	0	1	1	0	5	3	0
March	10.5	S.	46	SW.	2	11	3	5	9	22	7	2	0	0	11	12	8	15	12	0	0	1	0	0	0	1	7	0
April	9.5	SE.	42	SW.	1	6	2	3	18	17	6	3	5	0	14	8	8	9	9	0	0	1	0	0	0	0	6	0
May	7.3	SW.	40	SW.	1	10	10	8	7	7	12	2	6	0	15	9	7	4	4	0	0	0	0	0	4	0	3	1
June	7.7	SW.	32	N.	0	4	5	4	6	17	20	2	2	0	12	13	5	9	6	0	0	0	0	0	11	0	13	0
July	6.6	SW.	36	E.	0	8	6	6	9	6	18	7	2	0	19	7	5	8	7	0	0	0	0	0	21	0	9	0
August	6.4	SW.	30	NW.	0	5	10	5	12	13	13	3	1	0	14	12	5	11	11	0	0	0	0	0	9	0	11	0
September	7.1	SW.	30	NW.	0	4	6	4	9	18	11	2	4	2	14	13	3	9	7	0	0	0	0	0	12	0	4	0
October	7.6	SE.	33	SW.	0	10	4	9	16	12	4	2	5	0	23	4	4	6	3	0	0	0	0	0	0	0	2	0
November	8.9	S.	40	NW.	1	11	3	5	13	13	4	1	10	0	12	6	12	13	12	0	0	2	2	0	0	1	6	0
December	9.2	N.	40	SW.	1	13	5	4	7	12	8	6	7	0	8	6	17	10	9	0	0	0	1	1	0	6	2	0
Year	8.3	SW.	46	SW.	6	112	68	63	125	163	115	34	48	2	165	100	100	111	95	7	3	4	4	2	57	17	67	1

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.	0.01 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	5.9	SW.	24	SW.	0	9	9	6	4	8	13	4	6	3	11	10	10	6	6	0	0	0	1	0	0	3	0	0
February	6.5	NW.	31	NW.	0	8	8	2	6	8	6	3	10	5	15	5	8	10	8	1	0	0	2	0	0	3	4	0
March	6.3	S.	33	SE.	0	6	7	6	9	16	11	2	3	2	8	17	6	9	8	0	0	0	1	0	0	0	9	0
April	6.4	N.	30	SE.	0	12	4	8	11	9	6	3	5	2	12	10	8	8	6	0	0	0	0	0	0	0	5	0
May	5.4	NE.	26	SE.	0	6	12	9	3	6	8	4	12	2	10	18	3	6	3	0	0	1	0	0	6	0	4	0
June	4.7	SW.	32	E.	0	1	6	7	6	6	20	12	1	1	12	14	4	6	5	0	0	0	0	0	19	0	8	0
July	4.8	SW.	32	NE.	0	0	8	6	9	5	14	9	8	3	9	15	7	13	9	0	0	0	0	0	18	0	16	0
August	4.6	SW.	26	NW.	0	2	7	15	6	3	19	8	1	1	11	19	1	13	8	0	0	0	0	0	19	0	12	0
September	3.5	SW.	22	SW.	0	4	4	7	5	7	17	4	3	9	17	10	3	9	6	0	0	0	0	0	20	0	8	0
October	4.8	NE.	20	NW.	0	5	21	5	4	2	8	3	7	7	20	8	3	6	4	0	0	0	0	0	0	0	1	0
November	4.7	NE.	25	W.	0	4	10	4	6	7	7	7	5	10	10	12	8	7	4	0	0	0	1	0	0	0	3	0
December	5.6	NE.	24	SE.	0	7	13	8	5	9	12	2	5	1	11	8	12	9	7	0	0	0	1	0	0	6	3	0
Year	5.3	SW.	33	SE.	0	64	109	83	74	86	141	61	66	46	146	146	73	102	74	1	0	1	6	0	82	12	73	0

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1921—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	30.150	30.420	29.950	64.9	72.2	69.1	74.1	61.4	67.8	80	44	58	58	59	79	62	72	0.501	0.502	0.519	0.73	0.25	4.2	4.6	2.4	4.6
February	30.074	30.320	29.890	64.9	73.8	71.1	75.8	61.8	68.8	82	43	59	59	60	83	61	69	.526	.523	.537	1.15	1.15	3.9	3.7	3.3	4.1
March	30.114	30.370	29.990	72.4	77.3	74.4	78.6	69.1	73.8	83	56	64	64	64	75	64	72	.593	.597	.609	5.15	4.11	2.5	3.1	2.2	3.3
April	30.043	30.200	29.890	73.0	78.2	74.7	79.9	68.0	74.0	88	52	63	64	64	72	63	70	.599	.599	.604	2.63	1.57	3.8	4.1	5.2	4.8
May	29.964	30.110	29.710	74.4	79.2	75.4	80.9	68.3	74.6	88	50	65	66	66	73	64	72	.639	.645	.646	5.60	2.51	4.1	5.0	5.4	5.0
June	29.969	30.120	29.710	80.5	83.5	80.4	85.0	74.4	79.7	90	70	71	71	70	73	67	72	.766	.761	.744	1.14	.68	5.0	5.3	6.3	5.7
July	30.048	30.210	29.900	82.0	84.2	81.4	86.1	76.3	81.2	88	72	73	72	72	74	67	74	.805	.787	.799	3.09	.86	6.5	6.2	7.1	7.0
August	30.041	30.200	29.820	81.6	84.5	81.4	86.0	76.2	81.1	88	70	72	72	72	74	67	73	.794	.793	.786	3.14	.92	4.4	4.4	3.6	4.8
September	29.994	30.130	29.830	81.5	84.9	81.5	85.9	75.9	80.9	87	72	73	72	73	75	67	75	.803	.794	.806	2.81	1.78	4.2	4.4	2.6	4.7
October	29.906	30.040	29.540	76.1	80.4	77.3	82.5	71.8	77.2	87	68	71	71	71	85	75	82	.763	.768	.768	13.20	3.92	7.6	7.6	6.5	7.7
November	30.052	30.180	29.850	71.5	77.8	74.3	79.3	67.7	73.5	83	50	65	64	65	79	64	73	.623	.617	.625	.50	.21	3.6	4.4	2.7	3.9
December	30.075	30.270	29.840	66.9	75.3	70.7	76.7	62.4	69.6	83	46	60	61	60	79	62	71	.529	.549	.547	.23	.20	2.7	4.1	1.6	3.8
Year	30.036	30.420	29.540	74.1	79.3	76.0	80.9	69.4	75.2	90	43	66	66	66	77	65	73	.662	.661	.666	44.37	4.11	4.4	4.7	4.1	5.0

MILES CITY, MONT.

[ϕ=46° 25′ N.; λ=105° 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	27.443	27.800	26.820	22.3	....	31.9	40.9	19.2	30.0	60	9	19	....	24	88	....	73	0.105	.....	0.132	0.28	0.10	2.9	....	3.9	3.3
February	27.438	28.090	26.750	22.9	....	36.8	45.2	20.4	32.8	66	−4	17	....	25	80	....	62	.103	.....	.138	.41	.31	2.9	....	5.9	4.4
March	27.411	27.900	26.900	27.4	....	41.3	49.5	25.1	37.3	69	5	22	....	26	77	....	57	.122	.....	.148	1.22	.36	6.5	....	6.4	5.9
April	27.394	28.080	26.870	35.1	....	52.5	59.6	33.6	46.6	82	14	29	....	31	79	....	48	.164	.....	.174	.98	.30	4.8	....	5.4	5.0
May	27.421	27.820	26.920	50.0	....	62.7	68.3	47.4	57.8	84	34	44	....	46	80	....	58	.291	.....	.317	1.29	.92	6.9	....	6.3	5.9
June	27.382	27.780	26.918	63.4	....	82.4	86.2	60.4	73.3	101	45	56	....	56	79	....	46	.462	.....	.451	6.85	3.58	4.6	....	5.5	4.3
July	27.453	27.650	27.100	65.4	....	83.7	89.5	62.4	76.0	102	48	55	....	54	70	....	40	.437	.....	.432	1.76	.86	2.1	....	3.5	2.7
August	27.465	27.830	27.080	61.5	....	84.2	89.3	60.3	74.8	99	46	52	....	52	73	....	34	.397	.....	.386	.23	.14	2.8	....	3.6	2.9
September	27.417	27.800	26.940	49.2	....	64.6	71.8	47.3	59.6	95	33	41	....	44	76	....	51	.264	.....	.296	.82	.28	4.9	....	6.3	5.2
October	27.485	27.890	26.980	40.3	....	59.9	68.2	39.3	53.8	83	26	33	....	42	74	....	54	.187	.....	.271	.06	.06	2.8	....	2.2	2.1
November	27.483	27.980	26.840	24.4	....	32.6	39.8	21.7	30.8	70	−15	20	....	25	84	....	75	.122	.....	.149	2.23	1.08	5.6	....	5.8	5.1
December	27.575	28.000	27.030	18.9	....	22.4	30.7	13.5	22.1	53	−15	16	....	18	89	....	82	.104	.....	.109	1.34	.74	4.6	....	4.8	4.9
Year	27.447	28.090	26.750	40.1	....	54.6	61.6	37.6	49.6	102	−15	34	....	37	79	....	57	.230	.....	.250	17.47	3.58	4.3	....	5.0	4.3

MILWAUKEE, WIS.

[ϕ=43° 02′ N.; λ=87° 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	29.362	30.100	28.670	27.1	31.5	29.5	35.4	22.8	29.1	53	2	22	23	22	79	70	72	0.127	0.132	0.126	0.22	0.18	5.3	6.4	6.2	6.3
February	29.273	29.860	28.696	28.6	31.2	31.9	36.2	24.7	30.4	62	13	23	23	25	77	71	75	.128	.128	.139	.47	.19	8.1	8.8	6.6	8.1
March	29.264	30.000	28.650	36.6	41.1	40.6	47.5	31.9	39.7	77	12	31	31	32	78	68	71	.186	.187	.192	2.84	.90	7.5	7.3	7.1	7.6
April	29.214	29.730	28.580	44.5	54.0	51.0	58.9	40.9	49.9	79	26	39	44	43	83	71	76	.249	.312	.290	5.90	1.51	6.1	5.7	5.7	6.0
May	29.296	29.580	28.986	55.0	60.2	59.7	65.4	50.3	57.8	90	35	45	46	45	71	61	60	.325	.337	.324	1.39	.74	4.5	5.5	5.7	5.1
June	29.252	29.680	29.010	67.1	73.8	72.0	77.2	62.5	69.8	92	45	58	59	59	75	62	65	.512	.520	.520	.61	.28	6.7	5.0	5.2	5.2
July	29.259	29.490	28.980	76.3	82.2	80.4	86.3	71.0	78.6	96	59	64	64	62	66	56	55	.600	.620	.569	1.35	.86	3.6	4.1	3.4	4.1
August	29.299	29.650	28.890	66.6	74.0	70.3	76.9	62.7	69.8	90	54	59	60	58	77	63	69	.507	.523	.506	7.27	1.77	5.2	5.8	4.9	5.5
September	29.223	29.545	28.840	63.7	71.0	67.3	74.2	60.1	67.2	88	49	56	56	57	77	61	70	.477	.474	.477	7.26	.97	4.7	5.7	4.3	5.2
October	29.203	29.576	28.806	48.1	55.2	51.9	58.3	45.2	51.8	70	34	41	40	43	77	59	73	.261	.257	.282	3.75	1.04	4.5	5.9	4.8	5.6
November	29.304	29.780	28.920	34.6	38.4	37.1	41.6	30.8	36.2	56	19	29	30	30	79	72	75	.162	.167	.170	1.42	.86	8.0	7.7	8.5	8.1
December	29.265	29.760	28.520	26.2	29.7	28.8	34.3	21.2	27.8	53	0	21	22	22	78	69	75	.120	.123	.129	2.54	.87	7.4	7.5	6.9	7.4
Year	29.268	30.100	28.520	47.9	53.5	51.7	57.7	43.7	50.7	96	0	41	42	42	76	65	70	.304	.315	.310	35.02	1.77	6.0	6.3	5.8	6.2

MINNEAPOLIS, MINN.

[ϕ=44° 59′ N.; λ=93° 18′ 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	29.075	29.810	28.360	....	24.0	24.0	29.5	14.6	22.0	49	−8	....	16	17	....	71	73	.....	0.097	0.100	0.44	0.20	....	7.8	6.1	7.0
February	28.984	29.710	28.200	....	26.6	27.8	32.3	16.0	24.2	63	−6	....	18	19	....	68	68	.....	.103	.109	.51	.31	....	6.9	5.8	6.6
March	28.970	29.730	28.200	....	36.7	36.9	42.5	24.7	33.6	71	2	....	24	26	....	61	63	.....	.142	.147	2.21	1.02	....	6.3	6.2	6.3
April	28.897	29.540	28.300	....	56.1	55.3	60.5	40.6	50.6	81	23	....	36	36	....	48	50	.....	.231	.229	2.04	1.38	....	6.5	6.1	6.2
May	29.007	29.400	28.610	....	65.2	65.1	69.4	50.7	60.0	91	30	....	46	46	....	54	54	.....	.345	.342	3.40	.80	....	6.3	5.5	6.1
June	28.948	29.460	28.730	....	79.4	78.9	83.6	65.1	74.4	99	46	....	59	60	....	52	54	.....	.532	.535	3.61	2.48	....	5.5	5.3	5.1
July	28.976	29.250	28.620	....	83.8	81.1	87.1	67.8	77.4	98	55	....	62	62	....	48	54	.....	.564	.561	3.16	1.38	....	4.9	3.8	4.4
August	29.006	29.320	28.620	....	76.3	75.7	79.9	60.9	70.4	92	51	....	57	57	....	52	54	.....	.479	.478	2.03	1.05	....	5.4	4.0	4.9
September	28.909	29.280	28.460	....	69.4	66.8	72.7	55.3	64.0	91	41	....	50	51	....	53	61	.....	.378	.397	3.85	1.34	....	5.0	3.6	4.9
October	28.940	29.240	28.470	....	55.6	54.6	59.6	43.2	51.4	75	33	....	38	39	....	55	57	.....	.236	.243	.37	.21	....	5.6	4.4	5.5
November	29.060	29.580	28.590	....	30.1	28.8	33.2	21.7	27.5	54	−3	....	22	22	....	72	75	.....	.120	.121	1.58	.41	....	7.8	6.5	7.4
December	29.036	29.590	28.260	....	23.4	22.4	27.9	13.0	20.4	44	−18	....	17	16	....	74	75	.....	.104	.100	.26	.14	....	7.1	5.9	6.6
Year	28.984	29.810	28.200	....	52.2	51.4	56.5	39.5	48.0	99	−18	....	37	38	....	59	62	.....	.278	.280	23.75	2.48	....	6.3	5.3	5.9

Annual meteorological summary for the year ending December 31, 1921—Continued.

MIAMI, FLA.

[H_b=25 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	8.8	E.	35	NW.	0	7	7	16	13	2	3	1	13	0	13	12	6	9	7	0	0	0	1	0	0	0	0	0
February	8.3	E.	30	NW.	0	4	2	15	5	7	7	4	12	0	15	8	5	2	2	0	0	0	1	0	0	0	2	0
March	9.7	E.	26	E.	0	4	4	27	15	4	2	2	4	0	19	9	3	9	6	0	0	0	0	0	0	0	3	0
April	9.9	E.	25	S.	0	7	8	14	15	4	3	5	4	0	11	12	7	5	3	0	0	0	0	0	0	0	3	0
May	9.8	E.	30	NW.	0	2	0	22	17	4	3	9	5	0	12	11	8	10	10	0	0	0	0	0	0	0	9	0
June	7.6	E.	21	W.	0	1	8	24	10	9	1	5	2	0	9	11	10	5	4	0	0	0	0	0	0	0	4	0
July	7.5	SE.	23	SE.	0	3	1	18	22	8	4	4	2	0	4	12	15	15	12	0	0	0	0	0	0	0	16	0
August	8.4	E.	22	E.	0	2	5	26	16	2	0	2	9	0	12	14	5	14	12	0	0	0	0	0	0	0	7	0
September	8.4	E.	22	E.	0	6	9	27	11	1	2	2	2	0	13	9	8	12	6	0	0	0	0	0	0	0	4	0
October	8.5	E.	35	SW.	0	9	7	15	9	4	5	5	8	0	2	12	17	19	17	0	0	0	0	0	0	0	9	0
November	9.0	E.	30	E.	0	10	5	21	6	1	4	5	8	0	17	7	6	8	5	0	0	0	0	0	0	0	3	0
December	8.2	E.	29	W.	0	12	2	18	5	4	5	7	8	1	14	13	4	2	1	0	0	0	0	0	0	0	0	0
Year	8.7	E.	35	NW.	0	67	58	243	144	50	39	51	77	1	141	130	94	110	85	0	0	0	2	0	0	0	60	0

MILES CITY, MONT.

[H_b=2,371 ft.; h_t=48 ft.; h_r=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	5.5	* SE.	45	NW.	1	4	10	1	26	6	8	3	3	1	17	13	1	5	3	7	3	0	0	4	0	30	0	0
February	6.3	SE.	36	NW.	0	8	4	3	21	4	4	1	11	0	14	9	5	2	2	4	2	0	0	6	0	21	0	0
March	8.0	N.	36	NW.	0	14	12	2	5	4	8	8	9	0	6	16	9	10	5	10	8	0	0	5	0	21	0	0
April	8.2	NW.	52	NW.	1	9	7	5	13	3	1	8	13	1	10	13	7	8	6	6	5	0	0	1	0	12	0	0
May	8.5	E.	33	E.	0	5	15	17	6	0	4	10	5	0	5	19	7	9	5	0	0	0	0	0	0	0	0	5
June	6.8	NE.	39	NE.	0	7	15	3	14	4	2	7	8	0	13	16	1	12	11	0	0	0	0	0	11	0	11	1
July	6.3	SE.	28	NE.	0	10	12	5	17	2	3	2	11	0	22	7	2	8	5	0	0	0	0	0	18	0	4	0
August	5.8	SE.	30	W.	0	12	8	13	14	2	3	3	7	0	19	11	1	2	2	0	0	1	0	0	17	0	2	0
September	7.7	W.	40	NW.	1	13	5	2	8	3	6	13	9	1	6	18	6	8	5	0	0	0	0	0	1	0	1	0
October	5.8	SE.	40	NW.	1	7	8	1	22	5	3	4	12	0	25	4	2	1	1	0	0	0	0	0	0	4	1	0
November	5.6	SE.	30	NW.	0	9	8	6	14	8	4	10	1	0	10	11	9	11	8	8	8	0	0	8	0	19	0	0
December	5.7	S.	45	W.	1	6	4	2	14	14	3	7	2	0	13	10	8	6	6	9	6	0	0	13	0	28	0	0
Year	6.7	SE.	52	NW.	5	104	108	60	174	55	49	76	91	3	160	147	58	82	59	44	32	1	0	37	47	135	19	6

MILWAUKEE, WIS.

[H_b=681 ft.; h_t=125 ft.; h_r=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	11.2	W.	32	SW.	0	8	6	2	5	4	15	12	10	0	9	7	15	4	2	8	2	0	4	12	0	27	0	0
February	10.5	W.	35	W.	0	8	9	3	4	6	8	15	3	0	2	6	20	8	6	19	7	0	0	10	0	27	0	0
March	11.5	SW.	39	SW.	0	5	9	7	4	7	15	8	7	0	3	10	18	12	9	6	0	1	3	2	0	13	3	0
April	12.4	SW.	50	NE.	1	8	7	4	10	5	18	8	0	0	8	9	13	13	13	3	3	0	1	1	0	7	4	0
May	9.8	NE.	29	NE.	0	12	18	1	6	4	11	4	6	0	12	9	10	10	6	1	0	0	1	0	0	0	4	2
June	7.4	NE.	30	SW.	0	6	19	9	10	5	2	7	2	0	9	12	9	9	5	0	0	0	0	0	3	0	7	0
July	8.8	SW.	28	SW.	0	4	13	2	8	11	13	8	3	0	13	13	5	5	3	0	0	0	0	0	10	0	3	0
August	8.6	SW.	39	NE.	0	7	10	1	8	14	7	8	6	1	7	15	9	10	10	0	0	1	2	0	2	0	7	0
September	9.4	SW.	36	W.	0	4	5	0	7	8	18	9	9	0	10	10	10	15	14	0	0	1	1	0	0	0	11	0
October	11.4	SW.	36	SE.	0	3	6	5	9	1	14	11	13	0	11	5	15	11	9	0	0	0	2	0	0	0	4	0
November	10.8	N.	33	NE.	0	11	13	1	4	4	14	2	11	0	2	8	20	10	7	6	4	0	0	3	0	14	0	0
December	10.8	NW.	36	NW.	0	12	4	1	3	2	12	10	18	0	4	8	19	12	9	19	6	0	1	10	0	26	0	0
Year	10.2	SW.	50	NE.	1	88	119	36	78	71	147	102	88	1	90	112	163	119	93	62	22	3	15	38	15	114	43	2

MINNEAPOLIS, MINN.

[H_b=918 ft.; h_t=102 ft.; h_r=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	12.0	* W.	41	W.	1	3	1	1	8	5	4	5	4	0	3	9	19	6	4	8	4	0	0	18	0	30	0	0
February	11.1	S.	45	W.	1	1	2	0	3	8	1	6	7	0	8	3	17	6	3	12	6	0	1	18	0	26	0	0
March	14.0	SE.	48	NW.	2	3	4	3	7	3	2	6	3	0	8	10	13	8	6	10	3	1	0	7	0	24	2	0
April	13.6	S.	42	N.	3	3	4	1	8	2	5	4	3	0	6	13	11	10	5	1	1	0	0	0	0	7	1	0
May	11.4	SE.	38	NE.	0	2	9	5	6	2	3	3	1	0	8	9	14	16	12	1	1	0	0	0	1	3	5	2
June	9.7	SE.	36	SE.	0	3	2	1	8	3	5	6	2	0	10	11	9	8	6	0	0	0	0	0	11	0	5	0
July	9.4	SW.	42	N.	2	4	3	0	3	1	9	7	4	0	12	14	5	10	6	0	0	0	0	0	10	0	9	0
August	10.6	S.	47	NW.	1	6	6	1	1	8	4	2	3	0	9	17	5	7	7	0	0	0	0	0	2	0	5	0
September	11.9	SE.	51	NW.	3	0	1	2	9	5	2	7	4	0	10	12	8	13	9	0	0	0	0	0	1	0	10	1
October	11.0	NW.	43	W.	1	3	2	2	3	5	3	3	10	0	10	12	9	5	4	1	0	0	2	0	0	0	0	0
November	10.5	NW.	33	S.	0	5	4	1	3	8	2	1	6	0	6	5	19	8	7	10	8	0	3	14	0	26	0	0
December	13.0	NW.	50	NW.	3	3	0	0	4	3	1	6	14	0	7	8	16	7	1	15	7	0	2	18	0	29	0	0
Year	11.5	SE.	51	NW.	17	36	38	17	63	53	41	56	61	0	97	123	145	104	72	58	30	1	8	75	25	145	37	3

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1921—**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	30.149	30.520	29.830	49.7	60.7	57.2	65.1	47.0	56.0	74	35	45	46	46	83	62	69	0.317	0.339	0.337	1.89	1.18	4.6	5.2	2.8	4.9
February	30.035	30.310	29.704	51.0	59.6	57.6	64.2	47.8	56.0	80	35	47	48	47	88	69	70	.350	.366	.345	1.41	.66	4.0	5.1	2.8	4.6
March	30.063	30.310	29.790	62.7	70.4	67.9	74.2	59.5	66.8	84	43	60	60	60	91	72	79	.538	.542	.542	6.71	2.34	6.0	6.4	5.4	6.1
April	30.008	30.390	29.670	60.5	70.5	67.6	74.2	57.4	65.8	83	40	55	54	55	81	57	67	.454	.443	.472	4.43	1.96	5.0	4.9	5.1	5.0
May	29.937	30.140	29.700	67.2	77.5	73.6	81.2	63.4	72.3	96	44	61	60	61	82	58	68	.501	.549	.569	3.07	.85	3.6	5.7	5.9	4.8
June	29.935	30.075	29.750	77.8	85.6	81.5	88.8	73.7	81.2	93	67	71	69	69	80	58	67	.758	.712	.713	3.97	1.84	2.9	5.1	5.8	4.7
July	29.962	30.140	29.750	77.7	86.5	82.4	90.2	74.2	82.2	98	69	72	72	72	84	63	73	.796	.779	.797	4.89	2.11	5.0	5.8	7.6	5.9
August	30.004	30.150	29.850	78.1	87.7	82.2	90.7	74.3	82.5	99	69	73	72	73	85	61	74	.817	.793	.805	8.37	1.83	3.4	4.9	6.5	5.1
September	29.975	30.100	29.860	77.1	86.3	81.8	90.2	74.3	82.2	96	69	74	73	73	89	65	75	.826	.804	.809	3.74	1.32	2.2	4.9	4.7	4.5
October	29.941	30.220	29.600	60.3	74.3	70.4	78.0	57.9	68.0	89	48	53	53	56	78	50	62	.422	.439	.473	1.42	1.27	2.2	3.3	2.8	3.3
November	30.043	30.250	29.777	56.8	68.1	65.0	72.1	54.5	63.3	82	40	54	56	58	90	67	78	.442	.484	.499	3.79	2.79	4.1	4.2	3.0	4.5
December	30.063	30.300	29.690	51.7	62.0	59.4	66.6	48.1	57.4	76	35	48	52	52	88	72	79	.356	.403	.408	5.54	2.65	4.3	5.1	4.5	4.9
Year	30.010	30.520	29.600	64.2	74.1	70.6	78.0	61.0	69.5	99	35	59	60	60	85	63	72	.553	.554	.564	49.23	2.79	3.9	5.0	4.7	4.9

MODENA, UTAH.

[ϕ=37° 48′ N.; λ=113° 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	24.638	25.010	24.340	20.9	37.5	34.3	41.2	16.2	28.7	58	−2	15	19	20	78	49	56	0.086	0.104	0.107	1.27	0.69	3.9	4.9	5.4	4.7
February	24.651	25.070	24.120	24.3	42.5	43.9	47.9	21.3	34.6	66	2	17	22	21	74	43	42	.094	.117	.115	.16	.09	2.5	2.7	3.1	2.8
March	24.573	24.930	24.225	29.8	51.0	52.1	56.5	27.6	42.0	70	16	22	22	20	71	34	30	.117	.119	.112	1.09	.71	3.5	4.1	4.8	3.7
April	24.517	24.850	24.020	30.5	53.1	54.2	58.4	27.7	43.0	75	14	21	21	19	66	31	30	.108	.111	.105	1.33	1.08	3.0	4.0	4.1	3.9
May	24.501	24.690	24.270	40.1	61.2	61.3	65.6	38.5	52.0	78	29	28	25	24	62	30	28	.151	.138	.137	1.25	.43	3.5	4.8	5.8	4.6
June	24.577	24.750	24.247	49.2	77.9	79.0	82.0	47.5	64.8	94	32	28	26	25	44	16	15	.156	.142	.141	.01	.01	1.6	2.4	3.1	2.2
July	24.665	24.840	24.380	57.8	82.2	82.5	87.7	56.1	71.9	95	40	40	40	40	55	26	25	.276	.271	.265	2.50	2.06	2.2	3.5	4.1	3.2
August	24.690	24.800	24.550	54.9	78.6	78.0	83.1	53.6	68.4	95	47	44	44	42	69	33	32	.299	.301	.276	2.44	1.06	2.4	3.8	4.1	3.7
September	24.619	24.800	24.465	44.8	74.1	74.5	78.0	42.5	60.2	86	32	26	27	25	48	18	16	.145	.148	.136	.23	*.45	.6	.8	.7	.8
October	24.674	25.050	24.301	40.3	65.3	63.9	70.3	37.7	54.0	85	25	28	29	30	61	30	31	.155	.168	.168	1.97	1.38	2.2	2.4	2.5	2.6
November	24.673	24.930	24.300	28.3	54.7	47.3	58.4	25.0	41.7	70	8	18	20	20	64	27	35	.098	.108	.108	.18	.16	2.3	2.5	2.5	2.6
December	24.670	25.010	24.030	25.5	42.3	37.3	46.4	22.4	34.4	69	2	18	21	20	72	48	54	.107	.123	.120	2.14	.73	4.0	4.2	4.7	4.5
Year	24.621	25.070	24.020	37.2	60.0	59.0	64.6	34.7	49.6	95	−2	25	26	26	64	32	33	.149	.154	.149	14.57	2.06	2.6	3.3	3.7	3.3

* Sept. 30–Oct. 1.

MONTGOMERY, ALA.

[ϕ=32° 23′ N.; λ=86° 18′ 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	29.976	30.430	29.610	46.3	57.0	55.6	62.0	43.4	52.7	73	33	39	41	42	77	58	62	0.261	0.277	0.278	2.84	1.32	6.1	4.7	3.3	4.9
February	29.857	30.110	29.480	46.9	56.8	56.9	62.1	43.8	53.0	77	34	42	44	42	82	64	61	.285	.306	.286	4.87	3.07	5.3	5.2	2.6	4.5
March	29.898	30.180	29.608	58.7	70.0	69.1	75.9	55.4	65.6	85	39	55	56	54	87	64	62	.454	.474	.447	5.75	1.08	6.0	5.0	3.9	5.2
April	29.847	30.210	29.450	57.9	69.7	68.1	74.9	53.9	64.4	87	40	50	49	50	75	50	54	.383	.378	.363	6.55	1.98	5.1	4.3	3.9	4.4
May	29.765	30.000	29.530	66.7	77.4	74.4	81.4	62.4	71.9	94	46	59	58	58	78	53	60	.522	.504	.508	1.87	.70	3.9	5.7	4.5	5.4
June	29.760	29.950	29.550	76.8	88.3	85.3	92.3	72.4	82.4	99	67	67	64	64	73	45	51	.671	.602	.611	3.08	2.79	3.2	5.4	4.7	4.9
July	29.788	30.010	29.540	77.1	86.9	82.1	91.2	72.2	81.7	98	66	72	70	71	83	58	70	.771	.738	.755	6.67	2.55	4.4	4.9	7.2	5.9
August	29.841	30.010	29.703	75.8	86.8	81.1	90.7	72.4	81.6	100	65	71	71	71	85	61	73	.764	.765	.765	3.49	1.31	3.6	4.9	5.7	5.1
September	29.807	29.950	29.650	76.0	88.2	84.0	92.6	72.7	82.6	97	67	71	68	70	83	53	63	.748	.688	.723	3.02	2.71	2.3	4.8	4.2	4.2
October	29.789	30.150	29.460	56.6	72.1	68.5	76.0	53.4	64.7	85	45	49	50	51	76	48	57	.364	.389	.400	2.87	1.74	2.2	2.7	2.3	2.8
November	29.875	30.150	29.540	52.0	64.8	62.6	69.6	50.0	59.8	83	37	50	51	52	88	64	71	.385	.413	.418	5.77	3.25	7.1	5.7	3.9	5.5
December	29.894	30.140	29.440	47.1	58.1	56.6	63.3	43.1	53.2	77	31	42	44	44	82	62	66	.280	.303	.306	2.71	.68	4.7	4.5	4.6	4.8
Year	29.841	30.430	29.440	61.6	73.0	70.4	77.7	57.9	67.8	100	31	56	56	56	81	57	62	.491	.486	.490	49.49	3.25	4.5	4.8	4.2	4.8

MOORHEAD, MINN.

[ϕ=46° 52′ N.; λ=96° 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	29.060	29.790	28.330	11.0	21.4	17.5	24.0	6.6	15.3	43	−17	8	15	14	86	74	84	0.066	0.085	0.085	1.21	*1.37	5.7	7.4	5.6	6.8
February	28.973	29.780	28.049	14.3	22.5	22.2	28.3	10.0	19.2	50	−11	11	16	18	86	74	82	.081	.096	.107	.59	.30	7.1	7.2	5.6	6.5
March	28.989	29.750	28.460	20.1	27.6	27.7	33.9	14.6	24.2	58	−1	16	20	22	84	71	76	.100	.116	.128	1.61	.65	5.7	7.9	7.8	7.4
April	28.893	29.568	28.280	35.4	50.0	50.3	55.4	32.8	44.1	78	18	30	32	34	81	53	58	.171	.194	.214	1.79	.63	4.3	5.0	4.9	5.1
May	29.010	29.493	28.565	49.1	63.8	64.3	68.4	44.9	56.6	89	26	42	41	41	76	45	45	.283	.277	.275	2.56	1.31	4.8	5.0	4.9	4.7
June	28.914	29.480	28.552	64.1	77.0	77.0	81.2	59.7	70.4	100	38	58	58	61	81	55	59	.501	.510	.555	1.46	.59	5.3	4.9	4.1	5.1
July	28.985	29.220	28.452	65.9	80.0	79.5	84.1	61.4	72.8	96	50	59	59	59	80	51	52	.510	.506	.515	3.08	1.18	4.2	5.5	4.2	4.8
August	28.980	29.350	28.628	58.8	75.9	74.9	80.5	55.9	68.2	93	44	54	54	55	84	48	52	.423	.432	.448	3.94	2.35	4.2	4.4	4.2	4.4
September	28.877	29.301	28.360	52.3	64.4	62.4	69.5	49.6	59.6	95	35	46	46	47	80	55	60	.326	.333	.333	4.35	.96	6.6	5.8	4.9	5.5
October	28.934	29.360	28.370	40.0	53.5	51.9	58.0	37.7	47.8	75	29	35	37	37	82	57	59	.206	.223	.223	.84	.41	5.7	6.1	4.3	5.5
November	29.076	29.590	28.300	18.2	24.5	23.4	29.3	14.4	21.8	61	−16	14	17	18	84	72	77	.090	.100	.106	.59	.23	7.4	7.4	7.3	7.3
December	29.066	29.640	28.340	13.2	19.3	17.9	25.1	7.9	16.5	47	−23	10	13	14	87	75	82	.084	.092	.093	.35	.12	5.5	7.2	4.6	6.8
Year	28.980	29.790	28.049	36.9	48.3	47.4	53.1	33.0	42.5	100	−23	32	34	35	83	61	66	.237	.246	.257	22.28	2.35	5.5	6.2	5.1	5.8

* Dec. 31–Jan. 1.

Annual meteorological summary for the year ending December 31, 1921—Continued.

MOBILE, ALA.

[H_b=57 ft.; h_t=125 ft.: h_r=119 ft.; h_a=161 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	9.6	S.	38	NW.	0	11	2	4	4	16	10	6	9	0	5	20	5	7	5	0	0	0	5	0	0	0	2	0
February	10.7	S.	33	NW.	0	12	6	2	6	13	9	2	6	0	12	7	9	8	4	0	0	0	6	0	0	0	1	0
March	10.4	SE.	40	NW.	1	6	3	3	18	16	11	1	4	0	4	18	9	8	7	0	0	0	4	0	0	0	6	0
April	12.5	N.	42	W.	2	17	3	4	12	10	3	5	6	0	9	13	8	9	9	0	0	0	0	0	0	0	6	0
May	9.5	SW.	40	N.	1	13	5	4	4	9	14	2	11	0	7	21	3	10	9	0	0	2	1	0	4	0	8	0
June	9.2	SW.	50	SW.	2	4	1	9	2	11	22	6	5	0	10	19	1	6	6	0	0	1	0	0	12	0	7	0
July	8.5	SW.	36	NE.	0	8	0	3	11	3	15	10	12	0	3	23	5	18	14	0	0	0	0	0	17	0	18	0
August	8.3	SW.	53	E.	2	2	8	9	4	6	17	7	9	0	6	24	1	17	16	0	0	0	0	0	13	0	18	0
September	6.6	SW.	30	E.	0	12	3	1	3	8	19	8	6	0	11	16	3	8	8	0	0	0	1	0	17	0	10	0
October	9.8	N.	36	N.	0	27	7	4	4	5	6	3	6	0	16	13	2	3	3	0	0	0	0	0	0	0	0	0
November	9.0	N.	34	NW.	0	15	5	4	6	8	6	3	13	0	10	15	5	6	6	0	0	0	4	0	0	0	3	0
December	9.7	N.	32	NW.	0	14	6	3	8	9	9	2	11	0	11	10	10	7	6	0	0	0	2	0	0	0	4	0
Year	9.5	SW.	53	E.	8	141	49	50	82	114	141	55	98	0	105	199	61	107	93	0	0	3	23	0	63	0	83	0

MODENA, UTAH.

[H_b=5,479 ft.; h_t=10 ft.; h_r=2 ft.; h_a=43 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	W.	43	SW.	1	2	5	6	2	4	20	22	1	0	9	18	4	10	6	10	9	0	0	3	0	30	0	0
February	9.4	W.	59	SW.	1	1	9	9	2	3	9	22	1	0	17	10	1	4	2	4	4	0	0	3	0	28	0	0
March	11.1	SW.	43	SW.	2	2	5	8	0	3	18	23	3	0	16	10	5	6	6	4	3	0	0	0	0	26	0	0
April	11.9	W.	61	S.	4	7	3	5	2	4	14	17	7	1	13	12	5	7	3	7	6	1	0	0	0	25	2	0
May	14.1	SW.	50	S.	8	3	1	2	1	7	22	21	5	0	12	13	6	7	5	2	2	2	0	0	0	5	4	1
June	10.7	SW.	55	S.	2	6	3	3	2	4	20	20	2	0	22	7	1	1	0	0	0	0	0	0	7	0	2	0
July	10.1	W.	40	W.	1	3	7	7	4	3	13	23	2	0	17	12	2	10	6	1	0	1	0	0	14	0	15	0
August	10.0	SW.	60	SW.	1	3	2	1	2	5	27	18	4	0	15	12	4	12	9	0	0	2	0	0	3	0	17	0
September	11.1	SW.	50	SW.	5	0	0	4	3	3	25	23	2	0	27	2	1	2	1	0	0	1	0	0	0	2	1	0
October	8.6	W.	39	S.	0	1	5	10	0	7	18	17	4	0	23	3	5	4	4	0	0	0	0	0	0	7	2	0
November	9.4	W.	41	S.	1	0	9	5	3	0	11	31	1	0	21	6	3	3	1	2	1	0	0	0	0	28	0	0
December	10.4	W.	46	NW.	4	3	7	7	1	2	15	24	3	0	16	4	11	8	6	5	4	0	1	1	0	26	0	0
Year	10.5	W.	61	S.	30	31	56	67	22	45	212	261	35	1	208	109	48	74	49	35	29	7	1	7	24	177	43	1

MONTGOMERY, ALA.

[H_b=223 ft.; h_t=100 ft.; h_r=71 ft.; h_a=112 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	6.4	N.	25	SE.	0	11	6	9	6	10	4	7	8	1	14	8	9	9	6	0	0	0	2	0	0	0	2	0
February	6.8	SW.	25	W.	0	7	4	4	8	8	9	7	9	0	14	5	9	9	8	0	0	0	0	0	0	0	2	0
March	6.8	S.	44	N.	1	7	3	5	14	16	10	3	3	1	13	9	9	11	8	0	0	1	1	0	0	0	8	0
April	7.3	SE.	38	SW.	0	12	2	7	13	6	7	5	8	0	15	7	8	6	6	0	0	0	0	0	0	0	5	0
May	6.2	E.	28	E.	0	4	7	16	3	2	9	9	12	0	9	12	10	9	6	0	0	1	0	0	6	0	5	0
June	5.5	W.	30	N.	0	0	1	10	12	6	11	13	7	0	10	15	5	3	3	0	0	0	0	0	23	0	8	0
July	5.4	SE.	42	W.	1	1	8	7	13	8	13	7	5	0	6	15	10	12	10	0	0	1	0	0	20	0	15	0
August	5.5	E.	28	SW.	0	3	6	15	9	8	15	4	0	2	8	15	8	11	8	0	0	0	0	0	18	0	15	0
September	4.3	S.	29	E.	0	4	9	4	7	13	9	6	6	2	14	12	4	8	6	0	0	0	0	0	25	0	8	0
October	5.9	NE.	22	N.	0	13	19	7	7	4	5	3	2	2	20	6	5	5	2	0	0	0	1	0	0	0	3	0
November	5.5	NW.	31	N.	0	6	2	9	10	8	5	8	11	1	8	10	12	7	6	0	0	1	0	0	0	0	6	0
December	6.2	W.	23	SE.	0	8	6	4	10	7	6	12	6	3	15	5	11	10	7	0	0	0	0	0	0	0	2	0
Year	6.0	SE.	44	N.	2	76	73	97	112	96	103	84	77	12	146	119	100	100	76	0	0	4	4	0	92	1	79	0

MOORHEAD, MINN.

[H_b=940 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	8.8	S.	36	NW.	0	9	3	0	13	15	3	6	12	1	5	9	17	6	2	15	6	0	0	25	0	31	0	0
February	9.2	S.	33	NW.	0	8	3	1	7	15	3	4	14	1	5	10	13	7	6	14	7	0	0	19	0	28	0	0
March	10.3	N.	40	N.	1	20	5	1	10	12	2	1	11	0	1	13	17	11	9	16	10	0	1	13	0	28	1	1
April	9.8	N.	36	SW.	0	16	10	6	6	8	4	5	4	1	11	7	12	12	10	2	2	0	2	1	0	13	2	0
May	8.8	SE.	36	SW.	0	8	11	0	19	9	2	2	11	0	10	14	7	8	8	2	0	1	0	0	0	7	5	4
June	7.7	S.	23	SE.	0	9	5	3	12	13	7	4	7	0	9	13	8	7	6	0	0	0	1	0	8	0	5	0
July	7.9	S.	37	NW.	0	15	4	2	6	16	9	4	6	0	12	12	7	8	7	0	0	1	0	0	7	0	10	0
August	7.3	S.	26	NW.	0	12	5	3	7	18	6	3	8	0	10	17	4	11	8	0	0	0	0	0	3	0	6	0
September	8.4	NW.	33	NW.	0	5	2	8	7	8	4	12	12	0	7	13	10	14	12	0	0	0	0	0	1	0	5	0
October	7.8	NW.	44	NW.	1	10	7	5	3	9	6	7	14	1	7	14	10	8	6	2	1	0	1	0	0	6	0	0
November	8.1	N.	21	S.	0	17	7	1	2	14	2	7	10	0	4	7	19	10	6	5	8	0	0	17	0	30	0	0
December	8.8	NW.	36	NW.	0	14	2	1	0	14	8	5	18	0	4	10	17	9	3	14	6	0	0	19	0	31	0	0
Year	8.6	S.	44	NW.	2	143	64	31	92	151	56	60	127	4	85	139	141	111	81	70	40	2	5	94	19	174	34	5

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1921—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	30.071	30.810	29.390	31.6	35.6	32.9	38.6	26.5	32.6	53	2	28	30	28	85	79	81	0.164	0.179	0.164	2.23	0.96	6.4	6.0	4.6	6.8
February	30.016	30.500	29.230	33.0	36.7	33.8	38.3	28.8	33.6	50	20	29	31	30	84	80	84	.164	.180	.167	2.89	1.07	6.4	6.3	5.5	6.9
March	30.140	30.591	29.670	42.1	46.6	42.1	50.0	36.8	43.4	65	26	38	40	39	87	78	88	.244	.260	.246	2.37	.92	5.1	4.9	4.8	6.1
April	30.026	30.501	29.650	48.5	51.8	45.8	53.9	42.8	48.4	66	35	45	46	44	90	83	95	.309	.319	.295	2.49	.77	5.3	6.3	4.2	7.1
May	29.980	30.426	29.520	52.3	54.7	49.2	57.2	44.7	51.0	76	36	49	49	47	88	83	93	.348	.357	.327	4.43	.88	5.8	5.5	3.7	6.3
June	29.933	30.250	29.490	64.0	66.9	60.3	69.3	56.1	62.7	84	47	57	58	57	80	75	88	.480	.495	.470	2.79	1.20	3.2	4.1	4.7	5.6
July	29.973	30.226	29.550	68.0	72.5	66.2	74.3	62.9	68.6	84	54	66	68	65	95	87	96	.651	.700	.623	3.41	.94	4.3	5.8	6.0	6.6
August	30.057	30.300	29.600	68.2	68.0	64.6	73.0	61.3	67.2	78	53	61	61	61	79	72	89	.541	.552	.546	1.33	.83	3.4	4.2	3.3	5.2
September	30.016	30.363	29.690	66.7	71.9	64.5	73.4	60.0	66.7	87	49	60	60	61	79	66	89	.525	.525	.548	1.22	.68	3.0	3.3	2.7	4.8
October	29.956	30.428	29.340	57.2	61.6	55.3	63.3	50.6	57.0	73	40	49	49	48	75	64	77	.370	.366	.351	2.13	1.60	3.8	4.3	2.7	5.1
November	30.013	30.460	29.430	45.0	47.9	45.6	51.5	40.6	46.0	64	33	40	41	41	85	80	85	.264	.274	.270	5.25	.97	6.8	6.7	5.2	7.8
December	29.943	30.690	29.200	33.4	37.0	35.0	39.9	28.5	34.2	54	8	28	30	28	81	77	75	.166	.177	.162	2.45	.43	7.7	7.3	4.3	7.9
Year	30.010	30.810	29.200	50.8	54.3	49.6	56.9	45.0	51.0	87	2	46	47	46	84	77	87	.352	.365	.347	32.99	1.60	5.1	5.4	4.3	6.4

NASHVILLE, TENN.

[ϕ=36° 10′ N.; λ=86° 47′ W.]

January	29.630	30.110	29.230	39.2	44.9	45.5	50.9	35.5	43.2	69	22	32	32	34	74	64	66	0.185	0.191	0.206	3.11	0.82	7.4	6.8	5.5	6.7
February	29.509	29.940	28.970	39.7	47.3	47.2	53.2	37.0	45.1	74	24	33	35	36	79	65	68	.199	.218	.226	4.70	.89	6.2	6.7	5.4	6.3
March	29.529	29.860	29.190	52.7	62.3	63.6	69.0	49.1	59.0	82	29	47	47	46	81	60	54	.338	.350	.338	5.95	1.91	6.3	6.6	4.2	5.9
April	29.497	29.920	28.960	52.3	64.5	64.6	69.5	48.9	59.2	82	34	44	43	44	74	48	49	.310	.303	.309	3.50	1.71	4.1	5.5	5.1	4.9
May	29.454	29.730	29.090	62.4	74.6	73.4	78.2	58.7	68.4	91	41	54	54	54	74	50	52	.434	.440	.433	1.15	.77	4.4	5.4	5.1	5.1
June	29.424	29.610	29.220	74.6	85.4	82.2	89.6	70.3	80.0	94	63	66	64	65	76	51	58	.654	.612	.627	2.29	1.28	3.7	6.4	5.8	5.4
July	29.450	29.700	29.270	76.8	87.8	83.9	91.7	72.2	82.0	98	64	69	67	68	77	52	60	.706	.661	.681	4.56	4.25	2.3	5.5	6.5	5.0
August	29.501	29.670	29.346	72.2	82.7	80.3	87.1	68.9	78.0	96	60	67	66	67	84	60	66	.664	.660	.664	2.85	1.27	5.4	6.6	4.1	5.5
September	29.473	29.650	29.300	71.3	83.2	78.6	87.3	68.7	78.0	94	52	68	66	68	88	59	71	.679	.655	.685	3.72	.93	5.0	6.8	4.9	6.0
October	29.479	29.920	29.100	49.5	66.4	62.8	70.5	46.5	58.5	83	35	44	46	44	83	49	53	.296	.322	.307	2.93	1.19	2.5	2.9	3.0	2.9
November	29.511	29.825	28.990	47.4	56.8	54.3	62.3	42.4	52.4	76	27	44	47	44	88	72	71	.306	.338	.308	5.68	1.20	5.8	6.3	5.0	6.0
December	29.535	29.880	28.940	40.8	47.6	46.9	53.4	36.3	44.8	67	26	35	35	34	80	64	63	.209	.214	.210	1.76	.90	6.3	6.4	5.0	6.2
Year	29.499	30.110	28.940	56.6	67.0	65.3	71.9	52.9	62.4	98	22	50	50	50	80	58	61	.415	.414	.416	42.20	4.25	5.0	6.0	5.0	5.5

NEW HAVEN, CONN.

[ϕ=41° 18′ N.; λ=72° 56′ W.]

January	30.021	30.820	29.330	27.8	33.7	32.3	38.8	23.1	31.0	52	1	22	22	22	76	63	65	0.130	0.133	0.133	2.78	1.48	5.2	5.1	3.2	5.4
February	29.962	30.460	29.270	29.1	35.6	33.5	39.1	25.3	32.2	54	7	24	25	26	81	64	74	.137	.139	.147	3.44	1.36	6.9	6.1	4.3	6.0
March	30.046	30.530	29.590	40.3	48.7	45.5	54.0	26.2	45.1	84	24	36	37	37	84	66	74	.224	.245	.236	2.66	.85	5.4	5.4	5.5	5.3
April	29.937	30.410	29.520	49.4	57.6	52.9	62.6	44.0	53.3	79	30	44	47	45	83	70	77	.302	.342	.315	4.08	1.51	5.5	5.4	4.1	5.7
May	29.895	30.330	29.570	56.5	63.0	58.9	68.0	49.0	58.5	89	39	47	46	47	72	56	67	.337	.322	.338	4.08	1.62	5.6	5.1	4.4	4.9
June	29.848	30.183	29.430	66.5	73.1	68.4	77.9	58.5	68.2	90	49	56	54	56	70	53	67	.466	.435	.470	3.46	1.86	3.8	4.4	4.5	4.5
July	29.877	30.130	29.520	72.3	78.4	73.6	82.5	66.6	74.6	95	58	66	66	67	82	68	80	.653	.647	.664	6.60	2.22	5.9	6.1	5.1	5.5
August	29.969	30.220	29.520	66.6	74.3	69.9	78.0	59.7	68.8	94	50	59	58	60	76	59	72	.507	.496	.524	2.18	.73	4.5	4.2	3.0	4.3
September	29.919	30.220	29.500	65.4	74.0	69.3	77.7	59.8	68.8	92	48	58	56	60	78	56	74	.499	.474	.541	2.77	.98	4.4	3.4	3.1	4.0
October	29.873	30.377	29.240	50.0	60.7	55.2	64.1	44.5	54.3	76	30	44	41	46	82	51	72	.306	.275	.319	1.53	.51	4.2	4.4	3.0	3.9
November	29.943	30.400	29.410	38.8	44.8	42.3	48.7	35.9	42.3	67	27	34	34	35	84	68	76	.206	.208	.214	4.65	.90	7.0	7.2	6.7	7.3
December	29.897	30.650	29.210	27.7	34.1	31.9	37.8	23.3	30.6	57	2	21	22	23	76	60	69	.122	.124	.135	2.64	.87	5.3	5.2	3.8	5.0
Year	29.932	30.820	29.210	49.2	56.5	52.8	60.8	43.8	52.3	95	1	43	42	44	79	61	72	.324	.320	.336	41.77	2.22	5.3	5.2	4.2	5.2

NEW ORLEANS, LA.

[ϕ=29° 57′ N.; λ=90° 04′ W.]

January	30.157	30.500	29.850	52.9	64.0	60.0	67.1	51.3	59.2	76	37	49	52	51	87	66	74	0.365	.408	0.380	1.16	0.66	4.1	6.0	4.0	4.8
February	30.043	30.300	29.700	55.0	63.9	61.2	68.4	51.9	60.2	80	37	50	51	49	85	64	67	.389	.402	.384	1.94	.81	5.9	4.6	3.0	4.4
March	30.064	30.320	29.830	64.6	75.3	70.8	78.9	62.2	70.6	85	47	61	62	62	88	65	75	.554	.571	.564	5.59	1.88	7.6	6.6	5.6	6.3
April	30.001	30.480	29.710	63.6	67.0	70.4	76.3	60.1	68.2	84	44	57	58	58	80	72	67	.491	.509	.503	4.87	1.59	5.1	4.5	4.7	4.5
May	29.947	30.100	29.680	79.1	79.2	75.9	82.2	66.4	74.3	96	52	63	60	62	78	54	64	.592	.545	.585	1.61	1.19	4.2	5.5	4.2	5.2
June	29.933	30.080	29.730	78.5	85.7	81.1	88.4	73.9	81.2	93	68	72	71	71	81	63	72	.784	.768	.770	9.44	2.03	3.2	7.3	6.1	6.2
July	29.968	30.150	29.795	79.4	86.3	83.2	90.7	75.5	83.1	97	68	73	71	71	82	62	68	.818	.763	.786	7.90	3.10	4.1	7.0	6.8	6.0
August	30.000	30.160	29.860	80.0	88.0	83.1	91.7	76.7	84.2	99	69	74	71	72	81	58	71	.824	.765	.809	3.09	1.29	3.7	6.3	7.6	6.3
September	29.974	30.100	29.860	79.3	87.8	82.4	90.7	76.0	83.4	95	71	75	72	73	86	60	73	.858	.798	.832	3.94	1.11	3.1	5.8	4.0	4.8
October	29.943	30.230	29.640	65.3	76.7	72.2	79.0	63.4	71.2	88	53	56	54	58	73	48	62	.471	.451	.485	1.85	1.82	2.7	3.1	1.2	2.6
November	30.048	30.230	29.820	60.5	71.1	67.2	74.3	58.9	66.6	86	50	56	56	57	85	62	72	.469	.485	.480	3.83	1.97	4.2	4.7	1.6	4.3
December	30.068	30.300	29.650	55.4	65.7	62.1	69.3	52.2	60.8	83	39	51	54	53	86	68	74	.395	.441	.411	3.49	1.49	5.5	4.7	4.0	4.9
Year	30.011	30.500	29.640	67.0	75.9	72.5	79.8	64.0	71.9	99	37	61	61	61	83	62	70	.584	.574	.581	48.71	3.10	4.4	5.5	4.4	5.0

Annual meteorological summary for the year ending December 31, 1921—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.	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	17.1	W.	55	W.	4	6	7	2	2	8	10	17	10	0	6	8	17	13	12	7	3	0	1	5	0	20	0	0
February	16.2	NW.	72	NE.	4	5	11	3	6	3	11	5	12	0	6	6	16	11	8	10	4	0	4	4	0	21	0	0
March	18.3	SW.	48	SW.	5	2	7	2	10	10	18	4	9	0	6	12	13	13	9	1	0	0	12	0	0	9	1	0
April	18.9	SW.	49	N.	2	8	16	5	3	9	14	1	4	0	7	6	17	15	9	1	0	0	13	0	0	0	0	0
May	18.5	NE.	55	NE.	5	4	23	4	5	5	16	3	2	0	11	4	16	12	11	0	0	0	7	0	0	0	1	0
June	14.6	SW.	37	SW.	0	2	8	1	4	4	27	11	3	0	12	5	13	10	9	0	0	1	8	0	0	0	7	0
July	14.4	SW.	47	SW.	1	2	8	5	4	9	31	1	2	0	8	8	15	9	8	0	0	0	21	0	0	0	4	0
August	14.9	SW.	38	S.	0	5	17	1	4	8	21	4	2	0	12	11	8	7	6	0	0	0	7	0	0	0	1	0
September	13.8	SW.	43	SW.	1	4	11	2	4	15	17	4	3	0	12	13	5	9	6	0	0	0	9	0	0	0	2	0
October	15.9	SW.	54	SW.	4	5	9	0	4	8	16	14	6	0	13	8	10	6	5	0	0	0	1	0	0	0	2	0
November	18.2	W.	79	NE.	6	8	11	5	4	4	7	12	9	0	6	2	22	19	14	1	0	0	5	0	0	0	0	0
December	16.3	W.	46	W.	4	6	3	0	6	3	7	18	19	0	4	4	23	14	12	8	5	0	2	4	0	19	0	0
Year	16.4	SW.	79	NE.	36	57	131	30	56	86	195	94	81	0	103	87	175	138	109	28	12	1	90	13	0	69	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.	0.01 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	10.0	NW.	41	SE.	1	6	9	2	3	15	9	4	14	0	7	9	15	10	7	6	3	0	2	0	0	14	1	0
February	10.2	NW.	43	NW.	1	4	8	3	5	11	7	5	13	0	6	7	15	12	11	4	3	2	1	0	0	10	4	0
March	11.8	S.	40	SW.	1	4	10	5	8	21	5	3	6	0	8	11	12	14	12	0	0	0	0	0	0	2	3	0
April	11.0	S.	45	SE.	4	3	2	3	11	18	4	6	13	0	11	11	8	10	9	1	0	0	0	0	0	0	5	0
May	8.0	NW.	30	NW.	0	8	10	3	6	4	7	12	12	0	11	12	8	7	4	0	0	0	0	0	2	0	7	2
June	7.3	W.	48	NW.	1	2	7	7	7	3	16	13	5	0	7	16	7	11	7	0	0	0	0	0	19	0	10	0
July	6.9	W.	57	NW.	1	1	10	2	13	5	12	13	5	1	9	17	5	10	5	0	0	0	0	0	20	0	16	0
August	6.6	SW.	47	NW.	1	4	6	2	9	9	15	8	8	1	7	15	9	12	11	0	0	0	1	0	8	0	6	0
September	6.0	SW.	38	W.	0	2	5	4	8	5	21	10	5	0	4	16	10	16	13	0	0	0	2	0	10	0	12	0
October	8.2	NW.	36	NW.	0	3	9	8	7	6	7	9	12	1	20	6	5	7	7	0	0	0	4	0	0	0	1	0
November	10.3	S.	42	NW.	3	4	4	5	11	14	7	3	12	0	9	8	13	12	12	1	0	0	2	0	0	1	4	0
December	11.3	NW.	41	W.	2	4	8	4	7	6	13	8	12	0	10	6	15	8	5	0	0	0	2	0	0	11	2	0
Year	9.0	S.	57	NW.	15	45	88	48	95	117	123	94	117	3	109	134	122	129	103	12	6	2	14	0	59	38	71	2

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.	0.01 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	10.2	N.	36	W.	0	15	8	0	2	6	10	14	7	0	10	9	12	10	7	6	4	0	0	5	0	23	0	0
February	9.7	NE.	38	NE.	0	13	12	1	6	3	7	6	8	0	7	10	11	10	8	8	3	0	0	3	0	22	0	0
March	8.7	S.	39	NW.	0	15	5	4	6	15	10	3	4	0	9	14	8	12	10	1	0	0	4	0	0	8	2	0
April	9.4	NE.	31	SE.	0	11	15	4	3	10	13	1	3	0	9	8	13	14	9	2	1	0	4	0	0	2	0	0
May	9.9	NE.	34	NE.	0	6	18	3	6	8	15	4	2	0	13	9	9	13	9	0	0	0	0	0	0	0	2	1
June	8.6	SW.	31	N.	0	4	10	0	4	10	15	8	9	0	13	11	6	11	11	0	0	0	0	0	1	0	9	0
July	7.2	SW.	27	SW.	0	9	9	3	3	10	21	3	4	0	8	12	11	10	9	0	0	1	0	0	5	0	6	0
August	7.7	SW.	29	SW.	0	13	8	4	4	9	14	6	4	0	14	10	7	9	8	0	0	0	0	0	1	0	4	0
September	8.2	SW.	38	SW.	0	10	5	3	2	8	18	9	5	0	14	11	5	11	10	0	0	0	1	0	1	0	5	0
October	9.2	W.	38	S.	0	8	7	1	3	10	13	16	4	0	13	13	5	6	5	0	0	0	0	0	0	2	2	0
November	9.2	NE.	36	NE.	0	5	24	0	4	3	5	11	8	0	5	8	17	15	13	2	0	0	1	0	0	9	1	0
December	9.8	N.	37	S.	0	15	7	1	1	2	10	12	14	0	11	12	8	9	6	9	4	0	0	7	0	24	0	0
Year	9.0	SW.	39	NW.	0	124	128	24	44	94	151	93	72	0	126	127	112	130	105	28	12	1	10	15	8	90	31	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.	0.01 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	5.4	SW.	29	NW.	0	4	9	11	10	5	14	3	6	0	10	13	8	6	5	0	0	0	4	0	0	0	1	0
February	4.2	SW.	22	SW.	0	3	6	4	9	7	12	5	10	0	13	8	7	7	5	0	0	0	0	0	0	0	2	0
March	7.3	S.	36	NW.	0	5	4	2	19	11	13	4	4	0	2	19	10	8	8	0	0	0	3	0	0	0	7	0
April	8.6	SE.	27	SE.	0	7	11	8	14	11	3	4	2	0	12	8	10	7	7	0	0	0	0	0	0	0	2	0
May	4.5	NE.	22	NE.	0	6	11	8	8	11	9	5	4	0	8	18	5	8	6	0	0	0	0	0	0	4	6	1
June	5.3	SE.	25	NW.	0	2	5	2	18	10	13	5	5	0	2	20	8	14	12	0	0	0	0	0	0	9	11	0
July	5.5	W.	28	SW.	0	4	3	0	9	5	13	19	9	0	7	15	9	9	9	0	0	0	0	0	20	0	13	0
August	4.6	SW.	22	E.	0	3	8	3	9	8	12	10	9	0	1	20	10	12	9	0	0	0	0	0	22	0	19	0
September	4.3	S.	26	NE.	0	3	5	4	11	18	7	8	3	1	7	19	4	12	11	0	0	0	0	0	22	0	8	0
October	6.8	NE.	28	S.	0	3	21	8	8	9	5	3	5	0	20	9	2	2	1	0	0	0	0	0	0	0	2	0
November	5.9	E.	30	W.	0	12	4	10	8	4	6	7	7	2	11	13	6	4	4	0	0	0	8	0	0	0	2	0
December	6.5	SE.	22	N.	0	8	8	4	10	8	8	11	4	1	13	6	12	7	7	0	0	0	1	0	0	0	3	0
Year	5.7	SE.	36	NW.	0	60	95	64	133	107	115	84	68	4	106	168	91	96	84	0	0	0	16	0	77	0	70	1

Annual meteorological summary for the year ending December 31, 1921—**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	29.797	30.590	29.150	30.7	35.1	34.3	40.9	26.4	33.6	55	4	22	21	23	68	62	62	0.132	0.142	0.136	1.65	0.91	5.7	5.4	4.0	5.9
February	29.722	30.230	29.040	32.0	37.1	35.6	41.6	28.0	34.8	63	11	24	24	26	72	61	68	.135	.137	.146	4.90	2.62	6.5	6.4	4.7	6.6
March	29.812	30.269	29.360	44.7	51.6	48.9	57.1	39.5	48.3	80	25	37	39	38	74	64	69	.243	.267	.250	2.21	.61	5.7	4.5	4.8	5.5
April	29.705	30.130	29.280	51.5	58.7	55.4	64.0	45.9	55.0	76	28	44	45	45	78	64	71	.309	.317	.306	2.88	.66	6.2	5.8	4.1	6.1
May	29.667	30.098	29.340	57.6	64.7	60.0	69.0	51.7	60.4	85	43	47	47	47	70	55	65	.337	.337	.337	3.45	1.23	6.0	5.5	4.3	6.3
June	29.637	29.945	29.260	67.8	74.4	70.9	78.7	61.9	70.3	93	53	57	55	55	69	53	60	.475	.451	.448	3.25	1.25	4.2	4.1	5.0	5.4
July	29.662	29.911	29.330	73.3	80.4	76.0	83.5	68.8	76.2	93	62	66	66	67	79	64	75	.648	.644	.665	3.10	1.15	5.2	5.8	4.6	6.3
August	29.749	29.980	29.340	68.3	74.7	71.3	77.8	64.0	70.9	91	58	59	58	60	73	57	69	.512	.491	.525	3.87	1.63	4.5	4.2	3.3	5.3
September	29.704	29.970	29.290	67.7	74.5	70.9	78.0	63.9	71.0	91	56	59	58	60	74	59	70	.510	.506	.529	2.96	1.55	5.1	4.2	4.2	5.3
October	29.662	30.170	29.100	52.8	59.6	57.0	63.7	48.7	56.2	74	38	44	43	44	72	55	63	.294	.284	.297	.74	.27	4.9	4.6	2.4	5.0
November	29.712	30.140	29.210	42.3	47.4	45.3	51.1	39.0	45.0	71	30	36	37	38	79	69	75	.228	.236	.239	3.48	.90	7.2	7.0	6.7	7.6
December	29.678	30.350	29.010	30.9	35.9	34.7	41.7	26.0	33.8	58	4	23	23	22	60	59	60	.133	.132	.133	1.89	.52	6.0	5.2	4.2	5.5
Year	29.709	30.590	29.010	51.6	57.8	55.0	62.3	47.0	54.6	93	4	43	43	44	72	60	67	.330	.329	.334	34.38	2.62	5.6	5.2	4.4	5.9

NORFOLK, VA.

[ϕ=36° 51′ N.; λ=76° 17′ W.]

January	30.092	30.830	29.520	40.0	45.7	44.2	51.5	35.6	43.6	71	20	31	32	32	71	60	63	0.186	0.197	0.191	1.55	1.02	6.4	6.2	4.9	5.9
February	29.993	30.450	29.410	40.1	45.8	45.5	52.8	37.3	45.0	71	28	35	34	35	82	65	69	.212	.203	.214	3.02	.97	6.6	6.0	4.8	6.0
March	30.089	30.420	29.740	53.3	62.5	59.6	67.5	48.7	58.1	85	32	46	45	50	79	54	71	.344	.326	.376	1.50	.49	6.0	4.2	3.1	5.3
April	29.981	30.340	29.560	56.8	65.2	61.2	70.9	51.5	61.2	88	34	49	48	49	77	56	67	.371	.358	.368	3.02	1.14	6.0	6.2	4.4	5.7
May	29.894	30.285	29.450	60.4	66.6	62.7	70.8	55.2	63.0	88	47	55	54	54	82	66	77	.441	.427	.443	4.72	1.43	6.7	6.8	5.4	6.9
June	29.903	30.180	29.660	71.6	79.7	74.9	84.0	65.7	74.8	94	55	62	61	63	74	54	68	.582	.548	.597	1.05	.44	5.3	5.4	4.6	5.1
July	29.933	30.197	29.690	75.9	83.6	78.5	87.8	71.8	79.8	95	68	71	69	70	85	62	77	.762	.713	.746	3.27	1.80	5.4	6.6	4.6	5.6
August	29.998	30.170	29.700	74.2	80.8	75.1	83.9	68.8	76.4	95	62	66	63	66	76	56	73	.641	.591	.647	3.13	1.35	4.4	4.8	3.6	4.6
September	29.957	30.200	29.700	73.3	82.1	75.3	86.1	69.5	77.8	96	63	67	65	67	82	57	77	.672	.616	.676	2.43	1.24	4.6	4.2	2.6	4.2
October	29.942	30.460	29.460	57.0	66.7	61.8	70.7	53.4	62.0	81	40	50	46	50	77	49	66	.372	.326	.378	1.28	.90	3.9	3.5	2.4	4.1
November	29.980	30.303	29.400	51.7	60.1	55.3	63.3	48.2	55.8	77	36	48	46	47	87	63	75	.345	.332	.333	1.70	.86	5.2	5.0	4.0	5.1
December	29.987	30.590	29.330	39.8	46.7	44.3	51.8	36.5	44.2	69	22	33	33	34	76	60	69	.196	.205	.212	3.69	1.55	6.3	5.5	4.1	5.8
Year	29.979	30.830	29.330	57.8	65.5	61.5	70.1	53.5	61.8	96	20	51	50	51	79	58	71	.427	.404	.432	30.36	1.80	5.6	5.4	4.1	5.4

NORTHFIELD, VT.

[ϕ=44° 10′ N.; λ=72° 41′ W.]

January	29.122	29.940	28.390	14.4	22.7	19.1	29.6	7.6	18.6	46	−23	10	13	14	84	65	78	0.079	0.086	0.090	0.69	0.17	6.7	6.2	5.8	6.7
February	29.096	29.550	28.524	13.8	25.7	22.6	31.6	6.5	19.0	58	−14	11	16	17	88	64	79	.076	.092	.100	2.02	.61	7.4	7.0	7.1	7.2
March	29.150	29.667	28.680	33.6	41.2	37.4	46.1	24.9	35.5	72	3	28	28	29	83	60	73	.178	.176	.176	2.59	.51	7.3	7.0	6.3	7.3
April	29.113	29.570	28.690	42.9	55.0	48.4	58.7	34.0	46.4	79	18	36	36	39	76	53	70	.224	.230	.252	2.29	.72	6.0	6.1	5.3	6.4
May	29.080	29.453	28.759	53.1	64.6	56.6	68.5	38.3	53.4	88	26	42	40	44	68	42	64	.284	.261	.305	.69	.25	5.9	6.0	4.6	5.7
June	29.015	29.345	28.550	61.9	70.8	62.9	74.6	46.2	60.4	89	31	51	48	53	69	47	70	.389	.361	.417	2.56	1.06	4.7	5.3	4.6	5.7
July	29.054	29.292	28.700	69.2	80.1	71.5	83.6	59.2	71.4	94	44	64	63	65	82	57	81	.593	.572	.629	5.98	2.23	5.2	5.2	5.0	6.5
August	29.127	29.420	28.650	61.6	71.7	61.4	75.2	49.5	62.4	87	38	53	52	55	75	51	81	.417	.407	.446	3.51	1.23	4.5	5.8	3.5	5.7
September	29.076	29.430	28.500	56.6	68.9	58.4	73.0	44.9	59.0	88	30	50	50	52	80	53	81	.373	.375	.400	1.79	.45	4.5	5.4	3.0	5.7
October	29.001	29.511	28.290	40.9	53.6	46.6	57.5	34.0	45.8	72	16	36	38	39	83	58	76	.220	.238	.245	2.69	.79	5.6	6.0	5.7	6.2
November	29.101	29.570	28.380	29.8	34.1	31.2	37.8	24.6	31.2	66	8	26	28	27	85	77	83	.145	.157	.152	4.66	.72	9.4	8.9	8.7	8.9
December	28.997	29.750	28.370	15.8	22.9	18.3	28.0	6.8	17.4	51	−19	12	13	13	82	64	79	.084	.082	.084	1.40	.81	6.9	7.0	6.1	7.1
Year	29.078	29.940	28.290	41.1	50.9	44.5	55.4	31.4	43.4	94	−23	35	35	37	80	58	76	.255	.253	.275	30.87	2.23	6.1	6.3	5.5	6.6

NORTH HEAD, WASH.

[ϕ=46° 16′ N.; λ=124° 04′ W.]

January	29.732	30.400	28.670	41.6	43.3	43.1	45.9	37.6	41.8	52	32	36	38	38	81	82	83	0.216	0.233	0.233	10.65	2.00	8.0	8.2	8.5	8.5
February	29.853	30.230	29.263	42.5	44.0	44.7	47.2	39.3	43.2	60	33	39	40	40	89	86	84	.247	.252	.257	9.87	1.59	8.1	8.7	8.1	8.7
March	29.833	30.180	29.230	43.0	46.3	45.5	48.0	40.2	44.1	58	33	39	40	40	86	81	82	.239	.255	.251	6.41	2.63	7.6	6.5	6.9	6.2
April	29.874	30.230	29.410	44.9	49.1	48.4	51.1	42.1	46.6	65	34	40	42	42	85	77	81	.252	.265	.273	4.16	1.26	7.9	6.8	7.0	6.4
May	29.815	30.110	29.390	47.9	51.6	51.7	53.4	46.2	49.8	61	40	45	49	48	90	90	88	.302	.345	.339	1.69	.56	7.8	8.0	6.4	5.5
June	29.779	30.010	29.490	54.0	57.7	57.8	59.1	52.3	55.7	62	49	52	56	56	94	93	93	.389	.444	.445	3.10	.72	8.9	7.7	7.5	6.5
July	29.952	30.109	29.780	53.6	57.3	57.2	58.4	52.6	52.5	62	50	50	53	52	90	86	85	.358	.406	.395	.13	.04	8.7	7.5	5.8	5.4
August	29.857	30.090	29.533	54.5	57.9	58.3	59.6	53.2	56.4	65	50	53	56	56	96	93	92	.408	.448	.448	1.08	.45	7.6	6.7	5.7	6.1
September	29.819	30.130	29.330	53.9	58.0	58.2	59.8	52.0	55.9	65	48	51	54	54	91	66	87	.376	.413	.419	3.78	.98	5.9	6.2	4.8	4.8
October	29.770	30.090	29.270	52.1	54.8	54.2	57.7	49.4	53.6	74	45	50	51	51	92	88	91	.356	.377	.380	6.18	1.00	6.4	6.1	6.1	6.0
November	29.754	30.130	29.040	48.1	50.2	50.3	53.4	45.1	49.2	67	37	47	48	47	96	93	90	.324	.338	.330	10.53	1.59	8.6	9.1	8.3	6.2
December	29.833	30.520	29.030	41.6	43.4	43.6	45.8	38.4	42.1	62	24	35	38	38	77	83	82	.214	.241	.240	7.31	3.15	5.7	6.5	6.9	5.1
Year	29.823	30.520	28.670	48.1	51.1	51.1	53.3	45.7	49.5	74	24	45	47	47	89	86	86	.308	.334	.334	64.83	3.15	7.6	7.3	6.8	6.4

Annual meteorological summary for the year ending December 31, 1921—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.	0.01 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.
	Mi		*M.*																									
January	20.9	NW.	84	NW	14	6	5	5	3	5	8	14	16	0	9	10	12	7	6	8	2	0	2	5	0	20	1	0
February	17.8	NW.	70	NW.	9	9	7	5	4	6	5	5	15	0	4	11	13	10	8	6	4	0	2	2	0	20	0	0
March	20.1	S.	76	NW.	17	2	4	7	5	15	11	3	15	0	8	15	8	10	8	1	0	0	8	0	0	5	3	0
April	15.8	SW.	53	SE.	7	5	8	4	6	14	8	5	10	0	9	8	13	12	10	1	1	0	5	0	0	2	1	0
May	14.8	S.	54	NW.	6	6	10	13	3	11	9	4	6	0	6	13	12	11	10	0	0	1	1	0	0	0	5	2
June	15.2	SW.	63	W.	8	4	5	4	5	12	14	2	14	0	8	14	8	8	7	0	0	0	0	0	1	0	7	0
July	12.1	SW.	50	S.	4	6	6	5	3	13	18	4	7	0	6	12	13	8	6	0	0	0	1	0	3	0	9	0
August	13.3	S.	54	NW.	3	4	6	7	4	13	7	10	11	0	10	13	8	7	7	0	0	0	0	0	1	0	2	0
September	14.2	S.	56	NW.	4	6	3	7	5	18	6	9	6	0	9	12	9	10	8	0	0	0	1	0	2	0	5	0
October	16.6	S.	63	NW.	10	5	3	5	1	14	12	9	13	0	9	16	6	6	5	0	0	0	5	0	0	0	2	0
November	17.5	NW.	62	NW.	13	5	12	6	1	4	9	9	14	0	3	10	17	15	12	2	0	0	3	0	0	1	0	0
December	19.4	NW.	70	NW.	14	10	0	3	2	7	7	14	19	0	11	5	15	9	8	9	4	0	2	2	0	23	0	0
Year	16.5	NW.	84	NW.	109	68	69	71	42	132	114	88	146	0	92	139	134	113	95	27	11	1	30	9	7	71	35	2

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.	0.01 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	14.9	NE.	54	NE.	2	11	15	0	6	7	9	8	6	0	10	9	12	3	3	2	0	0	0	2	0	9	0	0
February	13.5	NE.	48	W.	2	5	12	4	6	8	6	8	7	0	6	11	11	9	9	2	0	0	1	0	0	7	1	0
March	15.8	S.	50	N.	3	4	12	5	9	18	11	0	3	0	11	10	10	13	9	0	0	0	1	0	0	1	2	0
April	14.0	S.	40	S.	1	4	10	5	6	17	7	4	7	0	7	12	11	8	7	0	0	0	1	0	0	0	2	0
May	11.7	NE.	43	NW.	2	1	14	7	11	5	8	4	12	0	5	10	16	12	10	0	0	1	4	0	0	0	5	0
June	10.5	NE.	32	NE.	0	0	17	2	11	12	14	0	4	4	10	12	8	7	5	0	0	0	4	0	7	0	5	0
July	11.0	SW.	37	SW.	0	2	6	4	8	15	21	4	2	0	9	13	9	8	5	0	0	0	0	0	9	0	10	0
August	12.0	NE.	62	NW.	3	1	19	10	6	12	8	2	3	1	10	16	5	10	9	0	0	0	1	0	7	0	5	0
September	9.7	S.	29	S.	0	5	8	10	13	15	7	1	1	0	12	15	3	6	6	0	0	0	1	0	6	0	4	0
October	13.8	NE.	54	NW.	1	6	12	6	7	10	8	5	8	0	16	6	9	4	3	0	0	0	5	0	0	0	1	0
November	11.8	NE.	37	NW.	0	7	12	2	7	12	9	6	5	0	13	7	10	8	3	0	0	0	1	0	0	0	0	0
December	13.3	NE.	41	N.	1	9	13	1	10	6	11	6	6	0	10	7	14	9	7	1	0	0	0	0	0	9	1	0
Year	12.7	NE.	62	NW.	15	55	150	56	100	137	119	48	64	1	119	128	118	97	76	5	0	1	19	2	29	26	36	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.	0.01 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	8.9	S.	35	S.	0	17	2	0	0	27	10	1	5	0	7	6	18	12	6	15	11	0	0	17	0	29	0	0
February	6.8	S.	39	SW.	0	14	4	0	0	26	8	0	3	1	3	12	13	14	9	17	14	0	0	16	0	28	0	0
March	10.1	S.	36	N.	0	16	0	1	0	35	5	1	4	0	5	7	19	18	14	8	7	0	1	4	0	24	1	0
April	8.4	S.	34	SW.	0	24	1	0	1	27	6	0	1	0	6	12	12	11	9	2	2	0	1	0	0	11	1	0
May	6.8	S.	28	NE.	0	21	6	0	2	24	4	0	5	0	5	17	9	5	3	0	0	0	0	0	0	9	2	4
June	6.8	S.	29	NW.	0	13	7	1	3	23	5	0	8	0	5	18	7	11	10	0	0	0	0	0	0	2	6	0
July	5.3	S.	25	S.	0	11	4	0	2	37	6	0	2	0	5	13	13	10	8	0	0	0	5	0	4	0	10	0
August	6.2	S.	27	S.	0	9	3	1	3	33	6	0	7	0	6	18	7	7	7	0	0	0	1	0	0	0	4	0
September	7.0	S.	38	SW.	0	7	2	0	1	34	9	1	6	0	9	10	11	11	10	0	0	0	2	0	0	1	6	4
October	7.1	S.	31	S.	0	7	5	0	0	36	6	0	5	3	8	8	15	10	9	3	2	0	2	0	0	14	0	0
November	6.6	S.	28	SE.	0	12	7	1	3	22	5	0	7	3	1	4	25	19	17	17	12	0	1	8	0	26	0	0
December	8.1	N.	40	SW.	1	21	1	1	1	20	13	0	5	0	5	9	17	14	5	20	11	0	0	18	0	30	0	2
Year	7.3	S.	40	SW.	1	172	42	5	16	344	83	3	58	7	65	134	166	142	107	82	59	0	13	63	4	174	30	10

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.	0.01 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	22.3	E.	126	SE.	19	3	1	13	15	11	7	7	4	1	2	3	26	29	26	2	0	0	1	0	0	0	1	0
February	15.8	SE.	60	SE.	9	2	2	7	14	12	6	4	8	1	1	4	23	19	19	2	2	0	2	0	0	0	0	0
March	15.8	NW.	62	S.	10	14	2	6	5	9	1	6	18	1	6	11	14	20	18	4	0	0	1	0	0	0	0	0
April	15.8	S.	66	S.	13	10	0	4	5	14	4	10	10	3	5	12	13	19	16	1	0	0	0	0	0	0	0	0
May	15.8	N.	60	S.	6	20	1	2	3	7	6	4	19	0	5	20	6	12	10	0	0	0	0	0	0	0	0	0
June	16.7	S.	50	S.	8	11	2	1	6	19	5	5	11	0	4	12	14	15	12	0	0	0	0	0	0	0	1	0
July	18.1	N.	50	N.	2	29	0	0	1	1	0	1	30	0	5	18	8	7	1	0	0	0	1	0	0	0	0	0
August	14.8	N.	46	S.	3	28	1	0	2	8	3	5	15	0	9	12	10	10	6	0	0	0	4	0	0	0	0	0
September	13.3	N.	60	S.	5	21	2	3	3	13	2	1	14	1	13	8	9	15	12	0	0	0	0	0	0	0	0	0
October	19.2	S.	84	S.	12	15	2	4	8	22	3	2	6	0	8	8	15	17	14	0	0	0	7	0	0	0	1	0
November	18.3	S.	84	S.	14	6	0	8	7	15	11	4	8	1	3	5	22	23	22	0	0	1	0	0	0	0	3	0
December	17.4	E.	60	NW.	10	12	1	24	10	8	1	1	5	0	13	8	10	14	11	4	1	0	1	2	0	5	0	0
Year	16.9	N.	126	SE.	111	171	14	72	79	139	49	50	148	8	74	121	170	200	167	13	3	1	17	2	0	5	6	0

Annual meteorological summary for the year ending December 31, 1921—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	27.126	27.510	26.660	23.8	36.2	31.7	41.0	19.2	30.1	58	4	19	21	21	81	55	64	0.103	0.111	0.111	0.68	0.06	4.2	5.4	4.2	5.7
February	27.085	27.570	26.450	24.5	42.1	38.9	46.5	22.1	34.3	71	2	20	23	25	81	50	58	.107	.126	.133	.36	.36	3.0	3.5	5.0	3.9
March	27.036	27.650	26.360	31.9	51.4	50.3	57.7	29.1	43.4	84	17	26	26	26	78	43	42	.143	.145	.145	.42	.39	4.8	4.4	5.3	4.5
April	26.990	27.680	26.330	37.1	58.2	56.8	63.3	34.0	48.6	85	18	31	29	30	78	39	42	.180	.168	.176	1.30	.47	5.1	5.0	6.8	4.8
May	27.052	27.440	26.678	51.2	68.2	68.0	73.2	48.8	61.0	94	34	45	45	46	82	48	49	.315	.314	.325	1.89	.59	6.0	6.0	5.7	5.6
June	27.068	27.380	26.640	61.8	79.8	79.3	84.0	59.7	71.8	95	50	58	56	58	87	48	51	.480	.462	.484	1.39	.51	5.7	4.2	4.0	4.2
July	27.123	27.350	26.514	65.6	85.9	84.3	89.5	64.2	76.8	97	53	60	60	60	82	44	47	.519	.528	.538	.80	.55	4.2	2.6	3.0	3.0
August	27.138	27.380	26.900	61.8	81.5	79.1	85.8	60.1	73.0	97	52	58	62	61	88	53	56	.490	.554	.542	2.57	1.15	4.5	3.1	4.8	3.7
September	27.062	27.340	26.633	53.0	73.8	71.3	79.9	50.2	65.0	95	33	49	48	50	86	44	49	.364	.363	.379	1.00	.35	5.0	2.6	2.8	3.2
October	27.091	27.490	26.580	39.4	68.2	60.0	72.7	37.1	54.9	90	27	31	33	32	73	30	37	.178	.191	.186	.92	.75	2.4	2.4	2.6	2.3
November	27.116	27.520	26.670	26.8	45.9	40.0	51.5	24.5	38.0	76	6	23	27	26	84	51	60	.124	.151	.142	.04	.03	4.6	5.6	3.2	5.3
December	27.172	27.490	26.740	21.7	38.5	31.2	43.5	17.9	30.7	68	−5	17	22	20	81	52	62	.097	.119	.110	.14	.09	3.7	5.0	2.9	5.4
Year	27.088	27.680	26.330	41.6	60.8	57.6	65.7	38.9	52.3	97	−5	36	38	38	82	46	51	.258	.269	.273	11.51	1.15	4.4	4.2	4.2	4.3

OKLAHOMA CITY, OKLA.

[ϕ= 35° 26′ N.; λ= 97° 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	28.846	29.216	28.399	38.3	47.0	45.5	51.8	34.1	43.0	68	20	32	32	33	77	58	63	0.196	0.200	0.206	2.29	1.31	5.9	7.1	5.1	5.7
February	28.777	29.200	28.240	35.3	50.2	48.8	55.4	33.1	44.2	76	16	29	32	32	78	54	54	.161	.188	.181	1.23	.92	4.3	3.6	3.7	3.8
March	28.716	29.350	28.250	49.2	60.2	59.3	67.3	45.9	56.6	82	26	43	44	46	81	58	63	.306	.314	.333	1.93	1.24	6.6	6.3	5.3	5.7
April	28.668	29.381	28.110	50.7	64.6	63.3	69.7	47.7	58.7	85	30	44	46	44	78	54	53	.301	.329	.312	2.39	1.15	4.9	3.6	3.2	3.8
May	28.706	29.000	28.350	62.6	76.0	74.5	79.8	59.4	69.6	90	43	55	57	54	77	54	51	.447	.479	.441	1.85	.76	6.3	5.5	5.6	5.3
June	28.656	28.840	28.449	69.9	80.2	78.8	84.4	67.5	76.0	91	62	67	67	67	89	67	69	.653	.675	.672	3.80	.85	7.8	7.4	6.3	7.0
July	28.721	28.870	28.380	73.2	86.8	84.8	89.7	70.9	80.3	96	65	68	69	69	84	57	61	.690	.713	.712	4.42	2.30	5.6	4.9	4.0	4.4
August	28.723	28.930	28.546	73.1	90.2	87.1	94.3	71.5	82.9	102	62	66	65	64	78	46	48	.634	.629	.605	.85	.31	5.2	4.3	4.8	4.4
September	28.681	28.900	28.480	69.6	84.8	80.5	88.5	67.6	78.0	98	14	65	64	63	85	52	57	.619	.615	.591	3.79	1.42	4.9	4.8	3.1	4.2
October	28.713	29.060	28.250	52.7	72.7	66.6	77.3	50.8	64.0	90	37	40	40	41	64	33	41	.260	.269	.266	.18	.17	2.3	2.1	1.6	1.7
November	28.768	29.100	28.410	40.9	59.2	54.3	64.6	38.4	51.5	84	24	33	33	33	75	41	48	.195	.197	.203	.33	.33	3.2	3.1	2.4	3.2
December	28.826	29.230	28.210	35.4	48.0	44.8	54.3	31.1	42.7	79	10	28	27	28	73	50	54	.161	.157	.159	.18	.11	5.5	6.3	3.9	4.9
Year	28.733	29.381	28.110	54.2	68.3	65.7	73.1	51.5	62.3	102	10	48	48	48	78	52	55	.385	.397	.390	23.25	2.30	5.2	4.9	4.1	4.5

OMAHA, NEBR.

[ϕ= 41° 16′ N.; λ= 95° 56′ 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	28.923	29.510	28.350	27.5	33.2	33.7	39.0	25.0	32.0	58	7	23	24	25	81	70	70	0.125	0.137	0.142	0.48	0.29	4.5	6.7	5.9	6.6
February	28.843	29.480	28.162	29.3	38.2	36.9	45.2	26.5	35.8	74	12	23	26	27	78	61	60	.128	.144	.153	.69	.25	4.7	5.7	3.8	4.8
March	28.800	29.543	28.140	38.2	48.9	50.9	56.5	34.6	45.6	85	14	30	31	30	72	52	48	.178	.185	.178	1.08	.90	6.1	5.7	3.4	5.1
April	28.732	29.470	28.080	46.8	59.2	59.0	64.8	43.5	54.2	87	25	39	42	42	75	56	57	.265	.292	.288	2.13	.54	4.3	5.9	5.9	5.5
May	28.815	29.165	28.350	59.1	71.1	71.2	75.4	56.4	65.9	94	37	53	56	55	81	60	60	.431	.471	.460	3.18	1.19	5.7	5.7	4.6	5.6
June	28.770	29.160	28.480	71.1	82.4	82.3	86.5	68.2	77.4	98	55	64	66	66	80	60	60	.617	.664	.657	3.57	1.41	4.1	5.2	5.1	4.8
July	28.826	29.040	28.385	74.2	84.5	83.2	88.3	70.8	79.6	97	62	67	70	69	78	62	63	.667	.732	.716	4.99	1.54	3.4	4.3	3.8	4.0
August	28.827	29.120	28.539	68.1	81.1	79.1	85.6	65.6	75.6	97	57	62	65	65	82	59	63	.570	.625	.625	2.07	.92	5.3	3.7	4.2	4.4
September	28.752	29.062	28.310	63.5	76.6	73.9	82.1	60.8	71.4	94	46	57	58	57	79	54	58	.486	.504	.500	5.35	2.81	3.8	3.6	2.5	3.7
October	28.766	29.170	28.300	49.6	64.2	61.9	69.6	47.7	58.6	87	36	39	39	40	68	43	48	.242	.248	.253	1.52	.79	3.5	3.8	2.6	3.4
November	28.877	29.250	28.450	31.1	39.7	39.4	45.2	28.6	36.9	65	11	26	30	29	83	68	67	.147	.168	.167	.09	.07	5.5	6.2	4.7	6.0
December	28.921	29.350	28.320	25.9	35.6	34.5	41.3	22.1	31.7	70	−5	20	21	22	77	57	60	.115	.122	.120	.14	.10	4.3	4.4	3.3	4.6
Year	28.821	29.543	28.080	48.7	59.6	59.1	65.0	45.8	55.4	98	−5	42	44	44	78	58	60	.331	.358	.355	25.20	2.81	4.6	5.1	4.2	4.9

OSWEGO, N. Y.

[ϕ= 43° 29′ N.; λ= 76° 35′ 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	29.745	30.567	29.108	24.0	27.8	28.3	33.7	19.4	26.6	48	−6	20	22	23	84	77	80	0.116	0.123	0.132	0.60	0.14	8.3	8.0	6.9	7.5
February	29.677	30.150	29.100	26.2	30.5	29.5	34.1	22.3	28.2	56	10	23	25	24	85	79	80	.126	.135	.133	2.06	.72	8.8	8.1	7.1	8.2
March	29.718	30.320	29.210	38.1	41.8	40.5	50.2	31.0	40.6	81	9	32	33	34	77	72	77	.193	.206	.211	3.12	.56	7.7	7.5	6.4	7.3
April	29.649	29.950	29.180	47.0	53.1	50.7	59.1	41.3	50.2	77	26	40	41	42	76	66	73	.255	.271	.276	2.01	.58	5.8	6.5	5.4	5.8
May	29.645	29.970	29.400	54.0	58.3	57.2	62.8	48.6	55.7	84	36	46	46	46	75	66	68	.326	.330	.330	2.58	1.18	4.7	4.6	5.0	4.7
June	29.606	30.000	29.240	63.6	68.4	66.5	72.7	57.3	65.0	84	43	55	55	56	76	65	70	.461	.462	.465	.80	.41	5.7	4.7	4.2	4.5
July	29.601	29.840	29.290	74.1	79.1	76.6	83.1	68.5	75.8	94	61	66	65	66	76	65	71	.643	.637	.647	2.04	1.49	5.8	5.5	5.5	4.7
August	29.679	29.941	29.240	66.1	72.1	68.7	75.3	60.4	67.8	87	51	56	54	57	71	56	67	.458	.435	.468	1.49	.72	4.7	4.6	5.3	4.6
September	29.612	29.940	29.080	64.5	70.7	67.9	74.3	58.7	66.5	85	46	55	57	56	72	63	66	.447	.477	.459	1.45	.41	5.0	4.6	3.7	4.3
October	29.574	30.090	29.040	48.1	54.5	52.4	58.5	44.4	51.4	71	32	40	41	43	75	63	72	.254	.267	.288	2.93	.70	6.4	6.7	5.1	6.3
November	29.670	30.140	29.120	37.4	39.6	37.8	42.8	32.3	37.6	72	21	33	33	33	83	79	81	.194	.198	.192	5.27	1.22	8.7	9.4	8.5	9.1
December	29.614	30.250	29.010	25.5	28.6	28.1	34.5	20.0	27.2	58	−4	21	22	22	82	77	77	.118	.121	.127	1.43	.56	9.4	8.5	7.5	8.3
Year	29.649	30.567	29.010	47.4	52.0	50.4	56.8	42.0	49.4	94	−6	41	42	41	78	69	74	.299	.305	.311	25.78	1.49	6.8	6.6	5.9	6.3

Annual meteorological summary for the year ending December 31, 1921—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	6.8	W.	30	NW.	0	4	4	4	7	4	7	24	8	0	10	7	14	3	1	4	2	0	1	5	0	31	0	0
February	7.5	W.	39	NW.	0	6	3	2	3	6	3	22	9	2	17	5	6	2	2	2	2	0	0	3	0	26	0	0
March	8.6	N.	35	N.	0	9	8	1	10	11	5	11	7	0	14	9	8	3	1	4	2	0	0	2	0	20	1	0
April	8.4	W.	42	NE.	1	12	4	4	1	12	5	16	6	0	13	8	9	7	6	3	2	0	0	0	0	11	0	0
May	4.5	SE.	20	SW.	0	8	5	13	14	11	3	5	3	0	10	7	14	12	8	1	1	0	2	0	2	0	10	2
June	3.9	SE.	21	E.	0	3	5	6	24	10	1	7	1	3	13	11	6	8	6	0	0	0	1	0	9	0	6	0
July	6.6	E.	23	N.	0	3	5	11	23	8	1	6	3	2	19	8	4	6	4	0	0	0	1	0	21	0	7	0
August	6.4	SE.	27	NW.	0	3	12	8	14	6	5	6	5	3	18	7	6	6	5	0	0	0	0	0	12	0	4	0
September	6.9	SE.	34	N.	0	6	8	7	11	8	4	7	7	2	20	5	5	6	5	0	0	0	0	0	4	0	4	0
October	7.8	NW.	38	N.	0	13	5	1	9	4	4	12	13	1	24	2	5	2	2	0	0	0	0	0	1	5	0	0
November	6.6	W.	32	NW.	0	10	7	1	2	13	5	18	4	0	10	8	12	2	0	5	1	0	1	4	0	24	0	0
December	7.5	W.	33	N.	0	12	3	7	6	3	4	22	4	1	10	11	10	2	2	5	2	0	0	8	0	29	0	0
Year	6.8	W.	42	NE.	1	89	69	65	124	96	47	156	70	14	178	88	99	59	42	24	12	0	6	22	49	146	32	2

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	13.2	S.	37	S.	0	12	4	4	3	22	7	3	7	0	7	15	9	7	6	3	3	0	3	2	0	17	0	0
February	11.1	S.	43	S.	1	16	2	2	0	15	10	1	10	0	17	6	5	3	3	2	2	0	0	1	0	16	1	0
March	16.3	S.	42	N.	3	16	2	0	0	33	5	1	4	1	7	13	11	7	4	0	0	3	0	0	0	3	5	0
April	16.3	S.	46	S.	5	15	1	1	7	26	2	4	3	1	15	10	5	7	6	0	0	0	1	0	0	3	8	0
May	12.1	S.	40	S.	1	5	7	6	7	32	0	2	2	1	7	16	8	7	6	0	0	1	0	0	1	0	6	0
June	10.0	S.	34	N.	0	4	2	6	13	29	0	3	2	1	5	9	16	17	14	0	0	1	1	0	2	0	10	0
July	10.1	S.	40	S.	1	9	6	4	11	28	2	0	2	0	14	10	7	6	5	0	0	0	0	0	15	0	6	0
August	10.4	S.	34	N.	0	5	4	2	8	38	5	0	0	0	15	10	6	8	5	0	0	0	0	0	23	0	9	0
September	10.5	S.	31	N.	0	6	1	4	6	40	2	0	0	1	9	18	3	10	7	0	0	0	0	0	16	0	6	0
October	10.2	S.	46	N.	1	15	2	1	5	29	1	4	4	1	21	8	2	3	2	0	0	0	0	0	0	0	1	0
November	13.1	S.	42	S.	1	17	3	0	1	27	3	0	9	0	16	10	4	1	1	0	0	0	0	0	0	7	2	0
December	13.6	N.	37	NW.	0	20	1	2	2	19	7	3	8	0	11	15	5	5	1	3	1	0	0	3	0	18	0	0
Year	12.2	S.	46	S.	13	140	35	32	63	338	44	21	51	6	144	140	81	81	60	8	6	5	5	6	57	64	54	0

OMAHA, NEBR.

[H_b=1105 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	8.2	NW.	33	NW.	0	3	3	6	5	17	5	8	15	0	6	11	14	5	2	9	4	0	4	11	0	25	0	0
February	8.8	NW.	36	NW.	0	8	4	1	6	11	7	5	14	0	11	9	8	7	4	7	3	0	1	4	0	22	1	0
March	10.2	NW.	39	NW.	0	11	3	2	5	19	4	2	16	0	12	10	9	3	2	5	0	0	0	0	0	13	2	0
April	9.5	S.	37	N.	0	8	4	1	6	20	3	3	15	0	10	9	11	13	11	3	1	2	0	0	0	5	6	0
May	7.8	S.	36	NW.	0	11	2	7	11	15	4	2	10	0	9	12	10	9	9	0	0	1	0	0	7	0	7	3
June	5.9	SE.	22	N.	0	8	5	5	12	13	8	1	8	0	11	11	8	10	8	0	0	0	0	0	12	0	8	0
July	5.8	SE.	38	N.	0	12	2	4	11	24	3	1	5	0	15	10	6	14	12	0	0	0	0	0	9	0	14	0
August	6.9	SE.	28	NE.	0	17	4	12	12	12	0	1	3	1	13	13	5	11	7	0	0	0	0	0	9	0	9	0
September	7.2	S.	29	N.	0	5	4	11	8	18	6	1	7	0	17	7	6	12	10	0	0	2	0	0	3	0	9	0
October	8.8	NW.	36	NE.	0	11	3	4	4	20	0	5	14	1	18	7	6	6	4	0	0	0	0	0	0	0	2	0
November	8.6	NW.	28	N.	0	14	2	4	6	9	6	3	16	0	9	8	13	3	1	7	2	0	1	6	0	20	1	0
December	9.8	NW.	38	NW.	0	15	4	2	2	8	7	5	19	0	13	12	6	2	2	4	2	0	0	10	0	23	0	0
Year	8.1	NW.	39	NW.	0	123	40	59	88	198	53	37	142	2	144	119	102	95	72	35	12	5	6	31	40	108	50	3

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	13.2	S.	42	NW.	1	3	5	1	7	21	10	1	14	0	3	10	18	13	5	17	6	0	0	10	0	25	0	0
February	11.3	S.	33	NW.	0	4	7	4	8	17	4	3	9	0	2	5	21	14	9	17	11	0	1	11	0	25	0	0
March	12.6	S.	32	NE.	0	5	5	4	4	22	9	6	7	0	5	6	20	14	14	8	1	0	0	2	0	17	5	0
April	10.5	S.	34	NE.	0	2	11	2	9	12	9	11	3	1	9	8	13	10	7	2	1	0	0	0	0	7	1	0
May	8.6	W.	28	NE.	0	4	8	4	9	12	5	13	7	0	10	13	8	8	6	0	0	0	2	0	0	0	2	0
June	7.7	W.	29	NE.	0	6	7	1	5	8	6	18	9	0	12	9	9	6	5	0	0	0	1	0	0	0	4	0
July	6.6	S.	26	NE.	0	5	5	4	9	19	6	11	3	0	11	13	7	9	6	0	0	0	1	0	4	0	9	0
August	8.9	S.	33	NE.	0	2	4	5	4	24	6	5	11	0	13	11	7	8	6	0	0	0	0	0	0	0	0	0
September	9.7	S.	38	SW.	0	2	3	0	11	19	13	3	9	0	16	5	9	8	7	0	0	0	0	0	0	0	2	2
October	10.7	S.	36	NW.	0	1	4	4	9	22	5	2	15	0	10	4	17	16	11	0	0	0	0	0	0	0	1	0
November	12.5	S.	50	NE.	3	7	8	2	11	15	4	4	9	0	0	4	26	22	19	15	11	0	0	1	0	16	0	0
December	14.1	S.	50	SW.	3	6	4	0	7	22	7	4	12	0	1	10	20	16	10	24	11	0	0	10	0	25	0	0
Year	10.5	S.	50	NE.	7	47	71	31	93	213	84	82	108	1	92	98	175	144	105	83	41	0	5	34	4	115	24	2

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1921—Continued.

PALESTINE, TEX.

[ϕ=31° 45′ N.; λ=95° 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	29.644	29.940	29.320	47.7	58.1	57.5	63.8	45.5	54.6	78	29	44	44	44	86	63	64	0.309	0.321	0.315	2.37	0.91	5.6	5.5	5.2	6.0
February	29.544	29.850	29.020	46.6	58.5	58.7	65.0	43.8	54.4	79	29	39	39	39	77	52	52	.260	.253	.250	2.16	.94	5.0	4.6	4.2	4.9
March	29.503	29.940	29.197	58.4	69.2	68.9	74.0	55.9	65.0	84	36	55	55	55	88	63	64	.454	.463	.462	3.55	1.41	6.9	6.5	5.6	6.6
April	29.472	30.030	29.009	55.9	68.3	67.4	72.6	52.9	62.8	82	34	50	50	51	82	56	59	.393	.396	.400	6.75	1.65	5.4	4.8	4.9	5.1
May	29.460	29.680	29.171	66.1	79.2	77.3	82.9	63.1	73.0	93	48	60	59	60	82	52	58	.537	.518	.538	6.61	3.60	5.0	5.0	4.7	4.8
June	29.408	29.550	29.040	73.0	83.7	80.1	86.7	69.8	78.2	94	64	70	68	68	90	60	70	.727	.676	.698	11.17	4.29	6.8	6.6	5.9	6.5
July	29.471	29.640	29.238	75.4	87.0	85.2	90.2	73.7	82.0	95	71	72	70	72	88	57	65	.770	.727	.772	1.27	.91	5.3	6.0	4.1	5.3
August	29.497	29.630	29.360	74.4	88.8	87.9	93.0	72.6	82.8	101	66	70	66	67	88	49	52	.743	.644	.662	.84	.81	4.5	4.7	3.8	4.5
September	29.461	29.620	29.310	72.9	85.5	82.7	89.6	72.0	80.8	94	61	71	68	69	94	56	64	.761	.685	.704	1.25	.60	5.3	6.0	5.2	5.7
October	29.487	29.803	29.160	56.8	75.5	71.6	79.3	54.9	67.1	94	43	49	47	47	76	39	43	.368	.356	.340	.21	.21	2.8	3.0	1.5	2.4
November	29.544	29.810	29.130	55.0	70.0	67.0	74.4	52.1	63.2	86	35	47	46	47	76	46	51	.350	.359	.348	.43	.18	4.0	4.1	3.5	4.0
December	29.585	29.930	29.040	47.8	58.3	57.9	65.0	43.9	54.4	80	24	41	42	42	78	59	58	.288	.297	.295	2.92	1.85	5.3	6.0	4.0	5.7
Year	29.506	30.030	29.009	60.8	73.5	71.8	78.0	58.4	68.2	101	24	56	54	55	84	54	58	.498	.475	.483	39.53	4.29	5.2	5.2	4.4	5.1

PARKERSBURG, W. VA.

[ϕ=39° 16′ N.; λ=81° 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	29.534	30.250	28.990	32.7	39.3	37.8	45.8	29.1	37.4	66	16	25	27	28	72	61	67	0.142	0.158	0.164	3.17	0.82	6.1	6.8	5.5	6.5
February	29.420	29.950	28.803	34.1	40.5	39.7	45.6	30.9	38.2	74	15	27	30	32	76	67	74	.151	.168	.185	2.18	.49	7.2	8.0	6.9	7.1
March	29.466	29.960	29.040	48.3	57.6	55.6	64.6	42.0	53.3	83	26	39	41	41	72	57	61	.253	.280	.274	4.49	1.09	6.6	6.8	4.3	5.7
April	29.414	29.796	28.900	50.7	64.1	61.0	69.6	45.5	57.6	87	28	41	43	44	70	49	56	.269	.292	.303	2.50	.72	4.4	5.3	4.8	4.8
May	29.374	29.696	29.140	58.9	70.0	68.4	74.3	54.1	64.2	89	42	51	51	54	76	54	66	.396	.397	.433	4.19	2.15	5.2	5.7	6.3	5.6
June	29.361	29.640	29.100	70.0	80.7	77.0	85.4	64.6	75.0	92	50	60	61	63	72	53	64	.548	.559	.600	3.63	2.65	4.8	5.2	5.6	4.8
July	29.384	29.630	29.150	73.1	84.5	80.3	88.9	68.4	78.6	95	63	66	65	68	79	53	65	.642	.621	.682	2.80	1.36	2.7	4.2	3.6	4.0
August	29.445	29.650	29.150	66.3	77.7	74.1	82.6	62.3	72.4	90	54	60	61	63	80	58	68	.523	.554	.579	3.71	2.47	4.0	5.3	3.8	4.9
September	29.403	29.660	29.080	66.7	78.8	71.8	82.5	63.2	72.8	91	50	62	62	64	86	57	77	.567	.567	.610	4.47	.89	5.1	5.2	4.5	5.8
October	29.385	29.890	28.980	46.5	62.9	60.4	67.2	44.2	55.7	79	31	40	44	45	80	51	67	.258	.293	.304	1.97	.72	3.9	4.2	3.0	4.4
November	29.410	29.850	28.850	43.3	49.4	47.8	55.5	38.9	47.2	81	26	38	40	40	81	71	74	.238	.259	.256	5.56	1.41	6.9	7.2	6.3	6.9
December	29.416	29.840	28.750	35.2	39.2	37.6	44.3	30.6	37.4	66	15	30	30	29	81	69	71	.171	.171	.167	4.30	2.42	7.7	7.9	7.5	7.4
Year	29.418	30.250	28.750	52.2	62.1	58.8	67.2	47.8	57.5	95	15	45	46	48	77	58	68	.346	.360	.380	42.97	2.65	5.4	6.0	5.2	5.7

PENSACOLA, FLA.

[ϕ=30° 25′ N.; λ=87° 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	30.156	30.530	29.840	51.8	59.4	57.1	63.2	48.9	56.0	70	33	46	48	50	82	68	78	0.334	0.351	0.377	1.67	0.73	5.6	4.8	4.0	5.5
February	30.045	30.320	29.700	52.0	57.9	57.6	61.9	49.4	55.6	72	36	48	50	52	87	77	82	.357	.387	.403	2.16	1.17	4.6	4.1	2.9	5.3
March	30.076	30.350	29.830	63.4	67.5	66.7	70.8	60.9	65.8	78	46	60	61	62	89	82	83	.540	.560	.565	6.21	2.55	6.4	5.4	5.4	5.9
April	30.015	30.360	29.680	62.2	68.0	67.0	71.3	58.7	65.0	82	40	54	55	57	76	66	73	.455	.462	.497	4.45	1.07	5.2	5.2	5.4	5.4
May	29.937	30.130	29.700	67.9	74.3	72.4	77.4	64.5	71.0	94	44	61	62	62	80	68	72	.564	.588	.586	2.57	1.21	4.7	5.4	6.2	5.5
June	29.941	30.090	29.770	78.2	81.7	80.6	84.8	75.3	80.0	90	71	70	72	71	77	72	73	.745	.781	.762	.40	.36	4.1	4.3	5.6	4.5
July	29.965	30.150	29.780	78.6	84.6	80.5	87.1	74.2	80.6	94	69	73	71	73	83	65	79	.808	.760	.819	6.07	1.68	5.8	6.2	7.7	6.7
August	30.007	30.170	29.830	78.7	83.6	82.0	86.6	75.9	81.2	94	69	72	72	73	82	69	76	.801	.784	.825	3.29	1.49	4.5	5.1	6.4	5.4
September	29.977	30.120	29.850	78.6	84.7	81.8	87.1	75.9	81.5	93	68	73	71	74	82	64	76	.806	.754	.827	2.28	.88	3.1	4.3	4.5	3.8
October	29.940	30.240	29.579	63.2	72.7	71.1	75.7	61.2	68.4	86	51	54	56	59	72	57	66	.437	.468	.513	2.20	1.59	2.6	3.4	3.4	3.0
November	30.045	30.270	29.770	59.3	66.8	65.7	71.0	57.3	64.2	78	42	55	55	59	86	69	82	.461	.473	.532	2.46	1.20	4.6	4.9	3.7	4.5
December	30.066	30.290	29.700	54.0	61.8	60.4	66.3	50.3	58.3	77	35	49	50	54	84	68	81	.373	.384	.436	4.51	1.40	4.9	4.0	3.6	4.5
Year	30.014	30.530	29.579	65.7	71.9	70.2	75.3	62.7	69.0	94	33	60	60	62	82	69	77	.557	.563	.595	38.27	2.55	4.7	4.8	4.9	5.0

PEORIA, ILL.

[ϕ=40° 43′ N.; λ=89° 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	29.480	30.134	28.901	28.8	35.8	32.7	39.2	25.1	32.2	53	6	26	27	27	88	70	78	0.150	0.153	0.153	1.39	0.55	5.9	6.1	5.6	5.4
February	29.386	29.914	28.935	30.1	37.8	36.1	41.9	27.0	34.4	72	13	28	29	30	90	72	77	.153	.166	.168	.29	.16	6.1	6.9	5.3	5.9
March	29.370	29.990	28.877	40.4	51.7	49.2	58.6	36.0	47.3	79	18	36	39	39	85	62	69	.234	.261	.260	4.89	1.32	5.6	5.4	5.8	5.4
April	29.310	29.819	28.770	47.6	60.8	56.8	64.7	43.9	54.3	82	28	42	43	44	81	55	64	.284	.299	.306	6.36	2.09	5.1	4.8	6.0	5.0
May	29.368	29.679	29.010	59.4	73.4	69.2	76.4	53.8	65.1	93	34	51	50	52	74	46	56	.402	.396	.413	2.13	1.48	4.1	3.4	4.8	3.3
June	29.314	29.699	29.110	71.1	83.9	78.7	87.3	66.3	76.8	95	48	64	66	65	80	57	65	.623	.638	.639	2.17	.71	4.1	3.8	5.6	3.5
July	29.354	29.537	29.110	74.7	88.2	84.6	91.6	67.9	79.8	101	57	66	65	65	76	48	55	.646	.628	.633	3.95	1.22	2.6	3.2	2.6	2.1
August	29.380	29.678	29.100	67.8	80.3	76.7	83.6	63.9	73.8	93	52	63	64	64	84	60	66	.583	.619	.619	3.86	1.64	5.2	3.6	3.6	3.5
September	29.329	29.590	28.950	63.4	76.8	71.0	80.6	59.5	70.0	91	45	60	60	63	90	59	75	.549	.545	.586	4.86	.89	5.5	4.1	3.4	4.3
October	29.307	29.750	28.860	46.6	63.3	56.9	66.6	44.5	55.6	83	31	43	45	46	88	53	69	.285	.310	.326	2.97	1.16	3.4	2.9	2.9	3.5
November	29.390	29.800	29.009	35.6	43.9	40.7	47.1	32.7	39.9	65	15	34	36	36	93	75	83	.199	.217	.215	3.43	1.63	6.3	7.3	5.5	7.3
December	29.402	29.860	28.680	28.1	34.4	32.7	39.7	24.7	32.2	55	9	26	28	29	89	79	86	.141	.158	.165	2.91	1.81	5.8	6.8	5.3	6.6
Year	29.366	30.134	28.680	49.5	60.9	57.1	64.8	45.4	55.1	101	6	45	46	47	85	61	70	.354	.368	.374	39.21	2.09	5.0	4.9	4.7	4.6

Annual meteorological summary for the year ending December 31, 1921—Continued.

PALESTINE, TEX.

[H_b=510 ft.; h_1=64 ft.; h_r=57 ft.; h_a=72 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	8.4	SE.	25	NW.	0	7	8	4	13	10	10	5	5	0	7	10	14	6	5	0	0	0	1	0	0	3	1	0
February	9.0	N.	27	S.	0	13	6	5	1	12	10	3	6	0	12	6	10	6	4	0	0	0	0	0	0	2	2	0
March	9.4	S.	35	W.	0	8	6	4	5	28	7	2	2	0	3	14	14	10	6	0	0	0	4	0	0	0	4	0
April	8.9	S.	38	SE.	0	6	9	4	10	19	4	5	3	0	14	5	11	12	11	0	0	0	0	0	0	0	10	0
May	6.4	S.	31	N.	0	6	9	9	10	18	9	1	0	0	11	14	6	4	3	0	0	0	0	0	2	0	7	0
June	6.6	S.	33	NE.	0	2	5	9	5	25	12	2	0	0	3	17	10	13	12	0	0	0	0	0	6	0	11	0
July	6.6	SW.	24	S.	0	4	5	3	12	15	19	4	0	0	8	16	7	4	4	0	0	0	0	0	22	0	3	0
August	6.4	S.	27	SE.	0	0	6	6	8	22	19	1	0	0	14	13	4	3	1	0	0	0	0	0	25	0	3	0
September	6.6	S.	36	S.	0	0	3	5	11	36	5	0	0	0	5	18	7	7	5	0	0	0	0	0	20	0	2	0
October	6.4	S.	33	NW.	0	6	11	5	9	13	8	7	3	0	23	6	2	1	1	0	0	0	0	0	2	0	2	0
November	7.5	S.	32	S.	0	12	5	0	7	21	8	1	6	0	17	6	7	3	3	0	0	0	1	0	0	0	1	0
December	7.7	S.	27	NW.	0	8	6	5	5	13	12	5	8	0	10	5	16	6	4	0	0	0	4	0	0	3	2	0
Year	7.5	S.	38	SE.	0	72	79	59	96	232	123	36	33	0	127	130	108	75	59	0	0	0	10	0	77	8	48	0

PARKERSBURG, W. VA.

[H_b=638 ft.; h_1=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	6.3	* SE.	36	W.	0	5	6	0	15	5	14	5	12	0	9	6	16	15	12	7	6	0	0	2	0	19	0	0
February	6.3	SW.	32	NW.	0	10	3	3	9	6	10	7	8	0	6	4	18	13	10	11	8	1	0	2	0	16	1	0
March	6.7	SE.	30	NW.	0	7	6	2	21	9	7	1	8	1	9	12	10	14	12	2	0	0	1	0	0	7	5	0
April	5.9	SE.	32	NW.	0	3	1	2	20	5	8	8	11	2	13	6	11	11	10	2	1	0	0	0	0	3	2	0
May	4.7	NW.	34	NW.	0	10	6	1	12	5	5	8	15	0	10	8	13	13	10	0	0	0	0	0	0	0	6	2
June	4.2	SE.	30	W.	0	10	4	2	18	6	11	7	2	0	12	11	7	10	9	0	0	0	0	0	6	0	10	0
July	3.9	SE.	26	NW.	0	9	4	1	23	7	12	0	6	0	18	8	5	8	8	0	0	0	1	0	12	0	9	0
August	4.2	SE.	22	NW.	0	8	7	3	19	3	9	8	5	0	14	9	8	8	7	0	0	0	1	0	2	0	8	0
September	3.9	SE.	44	NW.	1	6	2	0	17	5	11	8	7	4	10	11	9	17	13	0	0	0	0	0	4	0	11	0
October	5.4	SW.	29	NW.	0	1	3	1	13	14	15	8	4	3	14	8	9	8	6	0	0	0	1	0	0	1	0	0
November	6.3	SE.	28	NW.	0	3	6	4	16	8	8	6	9	0	8	4	18	14	11	2	2	0	1	0	0	3	5	0
December	6.6	SE.	35	NW.	0	8	5	0	18	2	17	3	9	0	3	10	18	12	9	8	4	0	1	0	0	18	1	0
Year	5.4	SE.	44	NW.	1	80	53	19	201	75	127	69	96	10	126	97	142	143	117	32	21	1	6	4	24	67	58	2

PENSACOLA, FLA.

[H_b=56 ft.; h_1=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	12.4	SW.	40	N.	1	13	7	7	7	5	12	8	3	0	9	12	10	4	3	0	0	0	5	0	0	0	2	0
February	12.8	N.	36	SW.	0	14	7	5	11	3	10	4	2	0	12	4	12	7	6	0	0	0	8	0	0	0	3	0
March	12.8	S.	40	NW.	1	5	6	6	14	12	6	10	3	0	8	10	13	6	5	0	0	0	3	0	0	0	4	0
April	15.6	N.	54	S.	3	16	7	6	9	12	5	2	3	0	10	9	11	8	8	0	0	0	0	0	0	0	8	0
May	12.9	N.	39	S.	0	14	10	8	6	5	3	10	6	0	8	13	10	10	8	0	0	0	0	0	1	0	9	0
June	11.6	W.	27	SW.	0	2	4	5	3	10	9	15	12	0	12	15	3	3	1	0	0	0	0	0	1	0	7	0
July	11.8	W.	43	NE.	2	5	6	4	2	9	10	18	8	0	4	15	12	13	10	0	0	0	0	0	10	0	16	0
August	11.2	SW.	32	SW.	0	4	5	11	2	11	10	16	3	0	8	15	8	11	8	0	0	0	0	0	5	0	15	0
September	9.1	S.	38	SE.	0	8	11	2	2	9	5	17	6	0	15	10	5	9	8	0	0	0	0	0	4	0	15	0
October	13.0	NE.	40	N.	1	11	18	15	0	5	4	6	3	0	20	8	3	4	4	0	0	0	0	0	0	0	4	0
November	12.1	NE.	38	N.	0	10	14	7	6	7	3	6	7	0	13	12	5	5	4	0	0	0	3	0	0	0	3	0
December	13.0	N.	50	SW.	1	10	11	6	4	10	2	11	8	0	16	5	10	9	7	0	0	0	0	0	0	0	3	0
Year	12.4	S.	54	S.	9	112	106	82	66	98	79	123	64	0	135	128	102	89	72	0	0	0	19	0	21	0	89	0

PEORIA, ILL.

[H_b=609 ft.; h_1=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.	23	W.	0	9	6	4	4	16	5	4	14	0	12	7	12	8	8	8	4	0	2	6	0	25	0	0
February	7.5	S.	27	W.	0	6	6	5	4	10	6	9	9	1	9	5	14	4	3	4	2	0	1	5	0	22	0	0
March	8.5	S.	22	SW.	0	7	7	5	5	22	2	2	11	1	8	12	11	19	15	1	0	0	0	1	0	11	10	0
April	9.2	S.	36	NE.	0	10	4	1	7	22	3	8	4	1	10	9	11	14	12	3	1	0	1	0	0	7	8	0
May	5.8	S.	23	W.	0	11	5	5	5	17	5	2	12	0	21	5	5	7	3	0	0	0	0	0	7	0	6	3
June	4.6	S.	20	NW.	0	4	5	10	11	10	9	5	4	2	17	10	3	10	8	0	0	0	0	0	12	0	16	0
July	4.0	NE.	38	NW.	0	4	15	5	5	10	7	8	4	4	22	9	0	6	5	0	0	0	0	0	20	0	0	0
August	4.7	S.	22	W.	0	5	6	9	14	12	5	1	7	3	17	9	5	10	9	0	0	0	0	0	7	0	9	0
September	4.7	S.	24	SW.	0	6	4	5	6	13	8	4	2	12	11	13	6	16	12	0	0	0	0	0	2	0	15	1
October	6.3	S.	25	NW.	0	8	3	3	6	21	3	5	7	6	18	10	3	10	6	0	0	0	0	0	0	1	6	0
November	6.8	NW.	23	NE.	0	13	4	4	8	12	2	3	14	0	4	10	16	12	7	3	3	0	3	1	0	12	2	0
December	8.1	NW.	31	NW.	0	11	5	3	2	15	6	6	14	0	7	7	17	7	5	6	3	0	0	9	0	25	0	1
Year	6.5	S.	38	NW.	0	94	70	59	77	180	61	57	102	30	156	106	103	122	93	25	13	0	7	22	48	103	78	5

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1921—**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	30.048	30.860	29.380	32.9	38.3	37.1	43.3	28.8	36.0	61	7	28	32	31	80	77	79	0.161	0.191	0.182	2.03	1.55	6.0	6.4	5.7	6.1
February	29.962	30.448	29.270	34.0	39.7	39.4	44.7	30.4	37.6	68	16	30	34	35	85	78	83	.170	.196	.207	4.40	2.52	7.0	7.1	6.1	6.7
March	30.043	30.472	29.580	46.6	55.9	55.2	63.4	41.6	52.5	83	25	43	49	48	86	76	78	.297	.368	.360	2.44	.68	5.7	5.6	5.0	5.7
April	29.939	30.310	29.430	53.3	61.6	59.6	68.5	48.5	58.5	82	29	47	52	50	82	72	72	.343	.400	.373	1.85	.78	6.3	5.9	4.9	6.0
May	29.891	30.328	29.550	59.3	66.6	63.5	71.2	53.6	62.4	90	45	51	54	53	76	66	71	.390	.431	.425	3.42	1.89	6.3	6.0	6.4	6.5
June	29.866	30.184	29.510	69.6	78.2	74.2	83.0	63.8	73.4	95	54	60	66	64	73	66	70	.535	.642	.599	2.86	2.16	4.0	5.7	5.2	5.1
July	29.885	30.139	29.560	75.4	83.4	78.6	86.7	70.6	78.6	96	65	70	72	72	85	71	81	.747	.801	.786	4.04	1.15	5.5	6.5	6.5	6.6
August	29.974	30.194	29.590	69.2	76.8	73.6	80.5	64.9	72.7	94	58	62	61	64	79	61	72	.568	.561	.600	6.01	3.75	4.4	5.0	4.2	4.9
September	29.925	30.170	29.540	69.2	77.5	73.2	80.5	65.2	72.8	92	58	62	64	65	79	64	77	.566	.608	.635	2.21	.99	5.3	5.8	3.6	5.4
October	29.897	30.420	29.360	53.1	61.7	58.5	66.6	48.8	57.7	78	36	46	46	48	76	57	70	.313	.315	.349	.40	.13	4.0	4.3	3.7	4.1
November	29.945	30.370	29.410	44.1	49.3	48.0	52.7	41.0	46.8	75	32	39	40	40	83	73	77	.251	.265	.266	3.69	.97	7.0	6.6	6.7	6.9
December	29.929	30.610	29.250	33.6	38.7	37.0	42.5	28.6	35.6	60	12	26	28	26	74	66	65	.148	.162	.153	2.10	.84	6.2	5.4	5.4	6.0
Year	29.942	30.860	29.250	53.4	60.6	58.2	65.3	48.8	57.0	96	7	47	50	50	80	69	75	.374	.412	.411	35.45	3.75	5.6	5.9	5.3	5.8

PHOENIX, ARIZ.

[ϕ=33° 28′ N.; λ=112° 00′ W.]

January	28.912	29.300	28.630	39.9	59.9	60.3	66.5	37.5	52.0	77	27	29	31	30	67	37	35	0.163	0.180	0.173	0.13	0.08	3.2	4.1	4.5	4.5
February	28.831	29.120	28.480	44.3	66.4	68.9	73.3	42.0	57.6	92	31	30	30	28	58	27	24	.169	.172	.160	.11	.06	1.3	1.8	3.6	2.2
March	28.749	29.040	28.350	52.5	73.6	76.7	79.3	50.1	64.7	95	41	36	36	33	54	28	22	.212	.220	.194	.03	.02	1.3	2.0	3.3	2.2
April	28.710	28.950	28.280	52.0	76.0	80.0	82.5	49.7	66.1	96	37	29	26	25	42	18	15	.161	.143	.138	.02	.02	1.1	1.7	3.0	1.8
May	28.652	28.820	28.430	59.1	82.9	87.0	89.4	57.9	73.6	101	48	33	35	33	39	19	16	.192	.206	.189	.17	.17	1.2	1.9	2.5	1.7
June	28.591	28.790	28.394	69.8	94.9	99.3	101.4	68.2	84.8	110	54	40	40	39	34	16	14	.254	.258	.249	.04	.04	2.0	1.9	2.6	1.9
July	28.675	28.840	28.403	78.4	94.8	98.5	101.3	77.1	89.2	110	64	62	62	60	59	37	32	.569	.571	.542	.38	.16	4.7	3.7	4.6	4.4
August	28.712	28.910	28.570	76.3	92.7	96.2	99.1	75.1	87.1	107	70	65	64	62	70	41	35	.624	.603	.568	1.62	.72	3.5	3.7	4.9	4.5
September	28.660	28.800	28.480	68.8	92.5	93.8	97.7	67.4	82.6	105	60	53	52	55	57	27	29	.409	.406	.438	.33	.31	1.7	1.4	1.6	1.6
October	28.742	29.150	28.500	59.9	84.7	82.0	90.1	57.5	73.8	100	44	47	44	52	64	26	37	.337	.308	.400	.11	.07	1.5	2.1	1.8	1.8
November	28.836	29.080	28.576	45.7	73.0	66.4	78.4	43.4	60.9	89	30	33	30	39	60	22	38	.187	.171	.247	.04	.04	.9	2.2	2.5	2.3
December	28.891	29.170	28.479	46.3	63.5	61.3	68.2	43.9	56.0	76	32	36	37	39	70	42	48	.224	.242	.262	.87	.44	3.6	5.3	5.4	4.9
Year	28.747	29.300	28.280	57.8	79.6	80.9	85.6	55.8	70.7	110	27	41	41	41	56	28	29	.292	.290	.297	3.85	.72	2.2	2.6	3.4	2.8

PIERRE, S. DAK.

[ϕ=44° 22′ N.; λ=100° 21′ W.]

January	28.379	28.980	27.750	21.3	29.3	31.0	37.7	18.1	27.9	61	−1	17	22	24	82	74	73	0.097	0.122	0.129	0.21	0.06	5.1	5.1	3.9	5.1
February	28.318	29.070	27.580	23.7	34.1	37.4	44.9	19.7	32.3	66	−3	19	25	27	81	60	68	.110	.139	.153	.05	.04	4.5	5.3	4.5	5.4
March	28.291	29.030	27.780	28.3	40.3	43.9	51.6	24.4	38.0	85	10	23	27	29	80	62	61	.128	.154	.166	.49	.35	4.5	5.4	6.4	6.0
April	28.231	29.020	27.567	37.2	52.7	56.5	60.9	35.3	48.1	86	18	31	38	39	80	62	59	.182	.237	.251	1.33	.41	4.1	4.3	5.1	4.7
May	28.311	28.790	27.740	50.8	60.9	64.7	67.8	48.7	58.2	87	28	46	48	51	86	67	64	.332	.363	.396	4.79	2.80	6.6	7.2	6.3	6.7
June	28.236	28.758	27.810	66.8	80.2	84.4	88.3	63.6	76.0	104	48	59	59	60	78	50	46	.514	.508	.520	.54	.38	4.8	4.2	3.2	4.1
July	28.301	28.560	27.630	68.8	82.0	84.9	89.3	65.3	77.3	102	55	61	60	60	77	48	46	.538	.519	.520	4.92	2.14	3.3	3.5	4.3	3.7
August	28.323	28.701	27.957	63.4	78.5	81.5	86.7	61.3	74.0	102	49	58	58	56	82	51	46	.487	.493	.466	1.59	.66	4.5	3.6	4.8	4.3
September	28.256	28.590	27.730	54.0	69.9	68.4	75.0	51.7	63.4	101	35	46	46	44	75	47	46	.321	.334	.302	3.21	1.13	4.2	3.8	4.2	3.9
October	28.306	28.740	27.794	42.4	61.3	57.4	66.6	39.4	53.0	86	29	33	39	36	72	47	47	.194	.248	.211	1.28	1.19	3.4	4.1	3.5	3.8
November	28.388	28.920	27.770	24.6	31.7	31.9	37.4	21.5	29.4	71	−4	20	24	23	80	72	71	.110	.138	.132	.49	.18	6.1	7.3	7.2	7.4
December	28.444	28.980	27.780	21.5	29.9	26.9	34.4	17.4	25.9	62	−7	16	21	19	77	68	71	.104	.123	.113	.27	.12	4.5	5.9	4.9	5.8
Year	28.315	29.070	27.567	41.9	54.2	55.7	61.7	38.9	50.3	104	−7	36	39	39	79	60	58	.260	.282	.280	19.17	2.80	4.6	5.0	4.9	5.1

PITTSBURGH, PA.

[ϕ=40° 32′ N.; λ=80° 02′ W.]

January	29.244	29.980	28.660	31.7	36.1	36.1	42.3	23.9	34.6	59	9	25	27	27	75	70	68	0.145	0.163	0.158	3.35	0.83	8.1	7.3	4.8	7.3
February	29.145	29.660	28.540	33.0	37.8	37.0	42.6	28.7	35.6	70	14	27	28	28	78	69	70	.152	.157	.157	1.80	.45	8.8	8.8	7.9	8.3
March	29.199	29.710	28.770	46.7	53.8	52.4	61.0	40.4	50.7	80	19	37	41	39	69	63	63	.237	.270	.258	3.36	.85	7.5	7.0	6.4	7.2
April	29.139	29.490	28.590	52.1	60.8	59.9	67.1	46.7	56.9	84	26	42	44	43	70	58	58	.282	.306	.296	1.66	.45	5.5	7.1	5.9	6.1
May	29.112	29.434	28.870	58.3	67.2	65.3	71.7	53.0	62.4	85	40	49	51	51	72	58	62	.364	.387	.391	2.49	1.10	5.7	6.3	6.2	6.0
June	29.104	29.420	28.850	68.8	78.4	75.5	82.7	63.3	73.0	90	48	58	58	59	69	52	58	.498	.511	.516	5.33	2.11	5.8	6.2	6.6	5.6
July	29.128	29.370	28.850	74.1	83.2	80.6	87.1	68.2	77.6	94	62	66	66	65	75	58	62	.636	.657	.637	2.81	.92	3.3	4.8	4.1	4.4
August	29.191	29.350	28.850	65.6	75.6	73.1	79.5	61.0	70.2	88	51	58	60	59	76	60	63	.487	.531	.511	3.03	1.00	4.7	5.5	3.3	4.9
September	29.138	29.400	28.720	65.8	75.3	71.8	79.3	62.2	70.8	88	47	61	63	61	84	68	71	.539	.591	.557	5.07	1.87	6.4	5.4	4.2	6.1
October	29.114	29.619	28.720	47.5	59.7	55.9	63.5	44.6	54.0	74	35	42	44	44	80	59	66	.268	.303	.295	2.25	1.15	5.4	5.7	3.1	5.4
November	29.139	29.590	28.600	42.5	46.6	45.2	51.3	38.0	44.6	77	24	38	40	39	83	79	79	.240	.267	.253	5.06	.91	8.1	8.5	6.7	8.7
December	29.130	29.580	28.470	33.0	36.2	34.6	40.0	28.1	34.0	63	9	28	30	27	80	76	73	.153	.169	.154	2.36	.95	8.5	8.2	8.8	8.8
Year	29.149	29.980	28.470	51.6	59.2	57.3	64.0	46.8	55.4	94	9	44	46	45	76	64	66	.333	.359	.349	38.57	2.11	6.5	6.7	5.7	6.6

Annual meteorological summary for the year ending December 31, 1921—Continued.

PHILADELPHIA, PA.

[H_b=117 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	10.7	NW.	35	S.	0	16	2	3	2	5	11	8	15	0	10	5	16	9	7	6	2	0	3	4	0	17	0	0
February	11.2	NW.	37	NE.	0	16	3	6	3	4	6	4	14	0	4	11	13	10	8	5	4	0	0	2	0	15	0	0
March	10.5	S.	36	NW.	0	11	3	6	4	18	9	3	8	0	8	13	10	11	9	1	0	0	1	0	0	4	3	0
April	10.6	S.	33	S.	0	7	4	3	7	11	14	1	12	1	10	4	16	12	8	4	2	0	0	0	0	1	3	0
May	10.5	SW.	37	NE.	0	13	5	11	2	10	11	1	8	1	7	10	14	11	9	0	0	0	0	0	0	0	2	2
June	9.6	SW.	31	S.	0	8	6	6	6	11	12	4	7	0	11	8	11	7	5	0	0	0	0	0	7	0	5	0
July	7.0	SW.	29	NW.	0	7	6	6	3	12	16	6	6	0	7	9	15	12	10	0	0	0	0	0	10	0	13	0
August	8.0	S.	28	N.	0	8	6	2	5	11	14	6	10	0	8	14	9	10	9	0	0	0	1	0	2	0	4	0
September	8.1	S.	33	S.	0	10	2	7	4	13	11	6	6	1	9	11	10	8	8	0	0	0	2	0	2	0	6	0
October	8.5	NW.	30	S.	0	4	3	4	1	11	12	13	14	0	14	12	5	5	4	0	0	0	3	0	0	0	1	0
November	10.3	NW.	32	NW.	0	11	9	5	0	9	8	5	13	0	7	7	16	16	15	1	0	0	2	0	0	1	0	0
December	9.2	NW.	31	NW.	0	14	2	3	0	8	7	7	21	0	10	7	14	8	5	10	2	0	0	3	0	19	0	0
Year	9.5	NW.	38	S.	0	125	51	62	37	123	131	64	134	3	105	111	149	119	97	27	10	0	12	9	21	57	37	2

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	4.5	E.	36	W.	0	1	5	14	11	4	6	13	6	2	14	9	8	5	1	0	0	0	0	0	0	0	0	0
February	5.4	E.	30	W.	0	4	3	17	5	0	7	15	4	1	21	6	1	3	2	0	0	0	0	0	1	2	0	0
March	5.6	E.	30	W.	0	4	8	15	6	3	1	19	6	0	26	1	4	2	0	0	0	0	0	0	3	0	0	0
April	6.8	W.	29	W.	0	4	4	14	6	4	8	13	7	0	24	5	1	1	0	0	0	0	0	0	8	0	0	0
May	5.9	W.	30	W.	0	1	4	22	2	1	11	17	4	0	28	1	2	2	2	0	0	0	0	0	18	0	0	1
June	5.2	W.	24	SE.	0	1	5	16	10	1	4	15	8	0	23	4	3	1	1	0	0	0	0	0	27	0	0	0
July	6.2	E.	36	NE.	0	7	7	22	5	2	0	15	4	0	10	15	6	7	2	0	0	0	0	0	29	0	8	0
August	4.8	E.	36	NE.	0	5	3	20	6	1	9	13	5	0	10	16	5	6	4	0	0	0	0	0	29	0	6	0
September	4.8	E.	20	W.	0	7	3	16	10	2	2	9	11	0	25	2	3	2	1	0	0	0	0	0	28	0	1	0
October	4.4	E.	30	W.	0	5	3	21	5	0	5	14	9	0	25	4	2	2	2	0	0	0	0	0	19	0	2	0
November	4.1	E.	19	W.	0	2	2	25	4	0	6	13	8	0	21	7	2	1	1	0	0	0	0	0	0	1	1	0
December	4.6	E.	34	E.	0	3	5	24	5	2	2	12	9	0	11	12	8	4	4	0	0	1	2	0	0	1	0	0
Year	5.2	E.	36	NE.	0	44	52	226	75	20	61	168	81	3	238	82	45	36	20	0	0	1	2	0	162	11	18	1

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	9.3	NW.	50	W.	2	3	5	13	8	1	6	8	18	0	13	5	13	7	4	6	6	0	0	9	0	30	0	0
February	9.7	NW.	50	NW.	3	7	4	13	7	2	4	3	16	0	8	10	10	2	1	3	1	0	0	8	0	22	0	0
March	10.8	NW.	51	N.	2	8	8	8	10	2	6	2	18	0	10	5	16	7	3	4	2	0	0	4	0	24	0	0
April	10.9	NW.	44	SE.	2	10	6	8	7	3	5	3	18	0	16	3	11	10	8	3	2	0	0	1	0	8	2	0
May	11.0	E.	40	N.	1	10	6	16	13	1	4	4	8	0	7	6	18	14	10	0	0	0	1	0	0	1	7	1
June	8.6	SE.	34	W.	0	1	6	16	19	5	4	4	5	0	16	7	7	4	3	0	0	0	0	0	14	0	3	0
July	8.6	SE.	64	NW.	2	5	9	11	16	5	2	4	10	0	15	12	4	8	8	0	0	0	0	0	17	0	6	0
August	8.5	SE.	41	N.	1	7	7	10	22	2	5	2	6	1	17	6	8	8	5	0	0	0	0	0	13	0	4	0
September	9.7	NW.	51	NW.	3	8	4	11	9	1	5	8	12	2	15	9	6	11	7	0	0	0	0	0	1	0	5	0
October	8.6	NW.	40	NW.	1	5	10	15	8	0	3	4	15	2	17	7	7	2	2	0	0	0	0	0	0	4	0	0
November	7.9	NW.	30	NW.	0	6	11	8	10	1	3	4	15	2	2	10	18	8	3	9	7	0	0	13	0	23	0	0
December	8.6	NW.	56	NW.	2	7	5	7	5	0	8	6	24	0	7	13	11	3	3	4	3	0	0	14	0	24	0	0
Year	9.4	NW.	64	NW.	19	77	81	136	134	23	55	52	165	7	143	93	120	84	57	29	21	0	1	49	45	136	27	1

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	12.2	SW.	56	W.	3	2	5	6	4	7	18	9	11	0	4	8	19	16	12	10	4	0	2	4	0	21	0	0
February	12.0	SW.	43	W.	1	3	4	6	6	6	8	16	7	0	2	4	22	13	10	14	7	0	0	4	0	18	1	0
March	12.4	SW.	36	SW.	0	2	2	3	10	13	15	4	13	0	5	5	21	15	12	5	1	0	2	0	0	9	5	0
April	10.6	SW.	39	NW.	0	3	2	3	10	8	14	11	9	0	11	4	15	13	7	3	1	0	0	0	0	5	3	0
May	9.8	NW.	44	NW.	1	8	11	4	9	3	8	6	12	1	7	9	15	13	9	0	0	0	1	0	0	0	9	3
June	8.7	SW.	47	SW.	1	8	8	5	6	0	19	5	9	0	8	11	11	9	8	0	0	0	0	0	0	0	12	0
July	7.4	SW.	36	NW.	0	9	7	6	3	6	21	3	7	0	12	15	4	7	5	0	0	0	0	0	8	0	11	0
August	8.2	SE.	36	SW.	0	2	8	5	12	4	14	6	10	1	13	6	12	10	10	0	0	0	0	0	0	0	8	0
September	8.9	SW.	49	NW.	4	4	6	4	7	7	17	5	10	0	5	13	12	15	13	0	0	0	1	0	0	0	12	0
October	11.9	SW.	37	SW.	0	1	4	2	12	4	19	10	9	1	12	5	14	8	7	1	0	0	5	0	0	0	0	0
November	11.9	SW.	47	NW.	1	6	6	8	4	6	13	7	10	0	2	4	24	16	15	3	2	0	0	0	0	3	1	0
December	12.1	SW.	56	W.	3	3	2	2	9	6	16	9	15	0	0	5	26	10	10	15	4	0	1	3	0	24	0	0
Year	10.5	SW.	56	W.	14	51	65	54	92	70	182	91	122	3	81	89	195	145	118	51	19	0	12	11	8	80	62	3

Annual meteorological summary for the year ending December 31, 1921—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	25.498	25.890	24.960	27.8	32.7	32.3	36.5	23.1	29.8	51	−2	20	22	23	73	54	69	0.112	0.118	0.124	0.95	0.25	6.6	7.5	7.9	7.6
February	25.532	26.000	24.868	27.3	34.1	34.7	38.9	22.8	30.8	56	4	22	24	26	82	66	70	.122	.130	.141	.70	.21	6.6	6.9	7.2	6.9
March	25.420	25.860	25.070	36.6	44.8	47.0	50.9	32.4	41.6	64	22	26	28	27	66	53	47	.141	.154	.150	.92	.34	7.0	6.4	5.5	6.3
April	25.393	25.760	24.897	34.8	45.2	47.2	51.0	31.2	41.1	71	11	26	28	28	71	53	50	.145	.153	.155	3.23	1.10	6.2	7.0	7.2	6.9
May	25.351	25.640	25.050	46.7	59.9	62.2	66.1	43.9	55.0	76	31	38	37	35	72	46	41	.230	.229	.210	2.47	.58	6.5	6.6	6.6	6.7
June	25.431	25.630	25.080	54.7	73.5	76.7	80.0	52.4	66.2	93	40	43	44	42	67	37	33	.281	.296	.274	.58	.21	3.7	3.6	4.3	3.8
July	25.503	25.650	25.210	60.7	81.5	82.8	88.0	58.1	73.0	98	36	42	46	40	51	30	26	.278	.317	.256	1.06	.48	3.2	2.8	4.6	4.1
August	25.508	25.670	25.317	60.4	79.4	80.1	84.5	58.1	71.3	93	50	43	45	41	55	32	27	.289	.306	.264	.33	.16	3.1	3.0	5.4	4.5
September	25.468	25.700	25.207	45.2	63.6	66.1	70.2	42.1	56.2	85	29	32	30	29	60	29	27	.188	.170	.165	.56	.35	3.2	3.5	2.7	3.7
October	25.540	25.970	25.120	41.2	61.0	61.7	68.5	38.4	53.4	81	31	28	31	30	58	34	32	.150	.171	.166	.56	.31	2.1	2.9	3.9	3.3
November	25.510	25.800	25.090	36.4	46.3	45.1	51.9	33.0	42.4	68	22	27	30	29	70	56	54	.148	.165	.160	.71	.33	5.0	6.3	5.9	6.0
December	25.544	26.030	24.940	26.7	33.4	32.6	38.7	22.7	30.7	59	11	22	24	24	81	68	70	.116	.128	.130	1.97	.47	5.2	6.5	7.0	6.4
Year	25.475	26.030	24.868	41.5	54.6	55.7	60.4	38.2	49.3	98	−2	31	32	31	67	47	46	.183	.195	.183	14.04	1.10	4.9	5.2	5.7	5.5

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	29.549	29.950	28.950			49.7	52.5	45.1	48.8	60	37			46			88			0.313	4.39	1.24			4.5	5.7
February	29.590	29.840	29.150			49.8	53.7	45.3	49.5	65	37			47			92			.327	.80	.30			4.1	6.6
March	29.511	29.810	29.070			50.9	54.1	46.7	50.4	66	44			48			92			.341	1.89	.66			4.2	7.0
April	29.526	29.730	29.300			51.0	53.6	45.0	49.3	65	39			48			91			.339	.45	.23			3.4	4.6
May	29.428	29.640	29.100			51.8	53.7	46.0	49.8	58	42			49			91			.348	.51	.24			4.5	6.5
June	29.416	29.590	29.230			55.0	57.6	49.3	53.4	71	47			52			91			.391	.02	.02			2.0	5.6
July	29.405	29.500	29.220			54.0	57.5	49.2	53.4	75	46			51			90			.375	.00	.00			2.7	6.8
August	29.443	29.560	29.300			55.5	57.4	50.0	53.7	62	46			53			93			.407	.00	.00			3.0	7.5
September	29.395	29.580	29.170			56.4	60.1	50.8	55.4	79	46			54			90			.410	.72	.56			2.8	5.6
October	29.483	29.820	29.124			56.4	60.7	51.9	56.3	76	46			54			92			.417	1.18	.45			3.8	6.2
November	29.550	29.780	29.300			54.0	58.7	49.1	53.9	78	43			49			88			.356	1.70	.84			2.7	5.8
December	29.489	29.910	28.510			52.4	56.2	47.6	51.9	66	42			47			84			.327	4.12	1.18			5.6	6.0
Year	29.482	29.950	28.510			53.1	56.3	48.0	52.2	79	37			50			90			.363	15.78	1.24			3.6	6.2

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	29.900	30.680	29.030		41.8	39.6	43.2	33.8	38.5	55	27		38	37		85	90		0.228	0.221	6.08	1.23		8.1	8.0	8.8
February	30.065	30.430	29.673		44.0	42.8	45.3	35.8	40.6	59	23		39	38		84	85		.243	.239	3.68	1.27		7.6	7.0	8.2
March	30.032	30.460	29.571		45.8	45.3	47.8	35.6	41.7	53	30		41	39		82	80		.255	.241	.99	.48		5.9	6.7	6.7
April	30.063	30.410	29.610		49.4	49.2	51.4	37.0	44.2	63	30		43	40		80	72		.281	.251	1.42	.33		6.0	6.1	5.5
May	30.020	30.350	29.590		55.2	55.6	58.7	40.6	49.6	76	33		48	48		77	76		.330	.336	.94	.67		5.0	5.3	5.5
June	29.993	30.184	29.710		59.9	59.8	63.2	48.5	55.8	70	42		53	53		79	78		.409	.397	.96	.16		7.9	7.5	8.0
July	30.147	30.320	29.949		60.2	61.7	63.5	48.5	56.0	69	42		52	53		76	74		.394	.408	.03	.03		2.4	2.5	3.4
August	30.059	30.270	29.710		61.2	61.3	64.1	49.2	56.6	74	44		55	55		81	80		.436	.433	.70	.21		4.3	4.2	5.6
September	30.036	30.340	29.540		58.3	59.3	62.2	45.6	53.9	72	38		50	48		75	68		.367	.335	1.99	.83		5.1	5.5	5.3
October	29.993	30.352	29.450		54.3	53.8	56.7	42.6	49.6	68	33		48	47		80	79		.337	.323	3.92	1.09		5.4	5.5	5.9
November	29.951	30.360	29.230		45.2	43.6	46.4	37.6	42.0	57	27		42	37		88	89		.268	.258	6.35	1.40		9.0	7.7	9.5
December	30.106	30.790	29.470		41.2	38.3	42.4	32.4	37.4	62	15		35	34		79	83		.210	.196	5.50	2.42		7.0	7.6	8.6
Year	30.030	30.790	29.030		51.4	50.9	53.7	40.6	47.2	76	15		45	44		80	80		.313	.303	32.56	2.42		6.1	6.1	6.8

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	30.139	30.450	29.840	53.7	60.7	58.0	64.1	51.3	57.7	75	35	51	52	53	90	74	83	0.392	0.406	0.416	1.60	1.07	4.5	5.5	5.0	6.0
February	30.035	30.280	29.651	51.6	60.6	58.0	55.2	49.4	57.3	74	35	48	47	50	88	64	77	.357	.353	.390	1.67	.77	5.5	4.6	4.0	4.7
March	30.014	30.310	29.720	65.1	71.3	68.9	74.1	63.3	68.7	81	40	62	62	63	91	74	83	.582	.580	.602	2.42	2.21	6.9	6.2	5.7	6.4
April	29.972	30.490	29.540	63.6	70.4	69.1	73.2	60.3	66.8	81	43	58	56	58	82	62	71	.507	.478	.521	3.13	1.72	4.8	4.0	4.3	4.1
May	29.946	30.180	29.642	70.7	78.4	75.8	81.1	66.8	74.0	91	57	65	63	65	83	60	70	.634	.594	.631	2.95	1.20	2.3	2.2	2.6	2.2
June	29.903	30.040	29.690	78.4	83.8	80.8	80.4	75.7	81.0	94	66	73	71	72	82	66	75	.801	.756	.783	5.12	2.35	3.4	3.5	3.4	3.4
July	29.962	30.130	29.779	78.3	84.9	82.7	88.1	75.2	81.6	95	70	74	72	73	86	67	73	.832	.790	.811	6.73	1.69	3.2	4.0	4.0	3.5
August	29.990	30.130	29.860	78.1	87.1	83.5	90.0	75.2	82.6	98	69	74	71	73	86	60	71	.830	.762	.807	3.90	1.49	2.6	2.6	3.1	3.1
September	29.952	30.110	29.840	78.3	84.5	81.4	87.3	76.0	81.6	92	68	74	73	73	87	69	77	.847	.809	.820	8.34	2.45	3.7	4.4	3.8	4.5
October	29.960	30.250	29.680	62.5	75.4	71.4	78.7	60.3	69.5	90	49	57	55	59	83	51	67	.484	.471	.527	1.28	.96	.8	1.7	1.5	1.8
November	30.041	30.370	29.690	59.2	69.9	66.5	73.2	56.0	64.6	82	42	56	56	56	88	65	78	.470	.493	.525	3.84	2.98	3.7	3.7	2.2	4.3
December	30.072	30.360	29.630	54.0	62.3	59.2	67.1	50.4	58.8	78	35	52	54	55	92	75	86	.415	.438	.453	2.53	.86	4.3	5.1	3.5	6.0
Year	29.999	30.490	29.540	66.1	74.1	71.3	77.4	63.3	70.4	98	35	62	61	63	86	66	76	.506	.578	.607	43.51	2.98	3.8	4.0	3.6	4.2

Annual meteorological summary for the year ending December 31, 1921—Continued.

POCATELLO, IDAHO.

[H_b=4,477 ft.; h_1=60 ft.; h_2=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.	0.01 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	S.	50	S.	3	3	0	0	18	21	10	9	1	0	4	7	20	12	8	17	10	0	0	9	0	23	1	0
February	10.1	SW.	44	SW.	1	2	0	1	17	9	15	4	7	1	5	9	14	11	6	15	9	0	1	8	0	25	0	0
March	10.5	SW.	36	SW.	0	0	1	1	14	12	25	3	6	0	6	11	14	11	8	7	3	1	0	0	0	15	0	0
April	9.7	SW.	40	SW.	1	3	0	0	11	6	28	7	5	0	4	7	19	15	11	11	6	3	0	2	0	14	4	0
May	7.9	SE.	38	SW.	0	2	0	1	15	12	21	7	4	0	5	10	16	15	11	0	0	7	0	0	0	1	8	1
June	6.8	SE.	36	SW.	0	1	0	0	24	8	11	9	7	0	13	16	1	8	4	0	0	2	0	0	2	0	4	0
July	8.2	SE.	40	SW.	1	1	0	1	19	16	13	9	3	0	16	9	6	6	4	1	0	1	0	0	16	0	8	0
August	8.1	SE.	48	SW.	1	0	1	1	25	8	11	7	9	0	13	13	5	4	3	0	0	0	0	0	3	0	11	0
September	7.9	SE.	36	SW.	0	4	2	0	16	10	14	7	7	0	18	7	5	4	3	0	0	1	0	0	0	2	5	0
October	7.5	SE.	36	SW.	0	3	2	0	20	9	14	7	7	0	19	6	6	4	2	0	0	0	0	0	0	3	0	0
November	10.3	SW.	36	SW.	0	0	0	0	11	16	23	7	3	0	9	10	11	8	5	7	1	0	0	2	0	12	0	0
December	8.5	SE.	44	SW.	1	2	0	2	23	9	8	3	14	1	7	7	17	14	11	13	10	0	1	5	0	26	0	0
Year	9.0	SE.	50	S.	8	21	6	7	213	136	193	79	73	2	119	112	134	112	76	71	39	15	2	26	21	121	41	1

POINT REYES, CALIF.

[H_b=490 ft.; h_1=7 ft.; h_2=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.	0.01 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	24.1	S.	86	S.	20	3	0	1	1	10	1	2	13	0	10	9	12	17	14	0	0	0	10	0	0	0	1	0
February	20.2	NW.	94	NW.	11	5	1	0	1	4	2	0	15	0	6	10	12	9	7	0	0	0	14	0	0	0	0	0
March	19.0	NW.	97	NW.	12	3	0	0	0	10	1	2	14	1	6	5	20	10	7	0	0	0	13	0	0	0	0	0
April	26.1	NW.	100	NW.	16	1	0	0	0	3	5	1	20	0	11	12	7	6	4	0	0	1	12	0	0	0	0	0
May	22.9	NW.	59	NW.	14	0	0	0	2	3	3	0	23	0	6	14	11	6	3	0	0	0	14	0	0	0	0	0
June	29.5	NW.	61	NW.	18	3	0	0	1	1	1	0	24	0	10	7	13	1	0	0	0	0	18	0	0	0	0	0
July	22.1	NW.	49	NW.	14	2	2	0	0	3	1	1	22	0	8	3	20	0	0	0	0	0	23	0	0	0	0	0
August	21.6	NW.	48	NW.	13	1	0	0	0	2	2	0	26	0	3	8	20	0	0	0	0	0	24	0	0	0	0	0
September	19.2	NW.	54	NW.	5	3	0	0	0	7	2	0	18	0	10	8	12	3	3	0	0	0	17	0	0	0	0	0
October	15.3	NW.	52	NW.	3	6	0	0	0	5	2	0	18	0	9	5	17	5	3	0	0	0	19	0	0	0	0	0
November	17.5	NW.	70	NW.	6	6	2	0	1	4	0	0	15	2	9	6	15	8	8	0	0	0	19	0	0	0	0	0
December	17.4	S.	96	S.	10	2	2	1	3	9	2	1	11	0	8	8	15	13	12	0	0	0	9	0	0	0	0	0
Year	21.2	NW.	100	NW.	142	35	7	2	9	61	22	7	219	3	96	95	174	78	61	0	0	1	192	0	0	0	1	0

PORT ANGELES, WASH.

[H_b=29 ft.; h_1=8 ft.; h_2=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.	0.01 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	S.	38	SE.	0	0	0	2	10	10	7	2	0	0	2	1	28	23	20	3	3	0	0	0	0	8	0	0
February	4.7	S.	25	SW.	0	0	2	9	4	2	5	5	1	0	4	2	22	13	10	2	1	0	2	0	0	7	0	0
March	6.2	S.	26	W.	0	0	3	11	2	0	5	8	2	0	6	7	18	13	7	4	4	1	0	0	0	6	0	0
April	6.0	S.	30	W.	0	0	3	6	1	1	2	11	6	0	11	8	11	19	11	0	0	1	0	0	0	3	0	0
May	6.2	SW.	26	W.	0	1	1	4	2	0	4	8	11	0	9	13	9	9	4	0	0	0	0	0	0	0	0	2
June	5.2	SW.	24	W.	0	2	2	3	0	1	2	9	11	0	1	7	22	12	8	0	0	0	0	0	0	0	0	0
July	9.1	NW.	31	W.	0	0	0	0	0	0	1	11	19	0	16	12	3	1	0	0	0	0	1	0	0	0	0	0
August	5.7	NW.	25	W.	0	2	0	2	0	0	3	12	12	0	9	11	11	11	6	0	0	0	3	0	0	0	1	0
September	5.1	S.	30	SW.	0	2	3	6	1	0	5	8	5	0	9	9	12	16	10	0	0	0	0	0	0	0	0	0
October	4.7	S.	34	SW.	0	0	0	6	5	6	6	3	5	0	11	5	15	14	13	0	0	0	4	0	0	0	0	0
November	4.8	S.	24	W.	0	0	2	4	11	5	6	1	0	1	0	1	29	22	16	4	4	0	5	0	0	6	0	0
December	7.2	S.	44	N.	1	1	0	2	11	12	5	0	0	0	2	2	27	13	10	4	3	0	3	2	0	15	0	0
Year	5.9	W.	44	N.	1	8	16	55	47	37	51	78	72	1	80	78	207	166	115	17	15	2	18	2	0	45	1	2

PORT ARTHUR, TEX.

[H_b=34 ft.; h_1=58 ft.; h_2=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.	0.01 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	9.8	SE.	36	NW.	0	9	3	9	14	11	9	3	4	0	8	10	13	9	4	0	0	0	8	0	0	0	1	0
February	10.1	S.	36	NW.	0	6	5	5	9	16	5	5	5	0	13	7	8	7	5	0	0	0	4	0	0	0	0	0
March	12.5	S.	48	W.	1	2	8	2	11	25	11	1	1	0	4	17	10	6	4	0	0	0	3	0	0	0	3	0
April	12.3	S.	52	SE.	1	5	7	9	15	16	4	0	4	0	17	4	9	10	6	0	0	0	0	0	0	0	5	0
May	8.5	S.	39	E.	0	3	12	5	4	23	10	2	2	1	25	4	2	6	6	0	0	2	0	0	1	0	8	0
June	10.1	S.	46	S.	1	2	1	7	5	30	11	2	2	0	19	6	5	12	9	0	0	0	0	0	2	0	8	0
July	7.7	SW.	30	S.	0	3	4	2	2	12	22	9	6	2	20	6	5	14	11	0	0	0	0	0	10	0	12	0
August	7.4	SW.	29	E.	0	10	4	7	5	12	17	4	3	0	18	10	3	13	10	0	0	0	0	0	14	0	15	0
September	6.9	S.	30	E.	0	5	9	3	10	24	7	1	1	0	15	6	9	13	11	0	0	0	0	0	4	0	14	0
October	7.9	NE.	29	W.	0	5	19	7	1	13	8	3	4	2	25	4	2	4	3	0	0	0	2	0	0	0	3	0
November	8.0	S.	36	N.	0	13	7	9	5	16	5	1	3	1	13	11	6	6	4	0	0	0	6	0	0	0	3	0
December	9.1	S.	37	SW.	0	13	4	7	10	14	4	6	4	0	9	6	16	8	8	0	0	0	6	0	0	0	2	0
Year	9.2	S.	52	SE.	3	76	83	72	91	213	113	37	39	6	186	91	88	108	81	0	0	2	29	0	31	0	75	0

Annual meteorological summary for the year ending December 31, 1921—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	29.409	30.230	28.750	25.6	31.4	29.2	34.8	22.5	28.6	53	6	22	23	24	85	70	78	0.124	0.147	0.134	0.35	0.11	5.9	6.5	5.5	6.4
February	29.330	29.850	28.850	26.1	31.0	29.6	34.1	22.8	28.4	59	12	23	24	25	87	75	81	.125	.132	.133	1.20	.51	7.0	7.3	7.1	6.9
March	29.346	30.020	28.690	36.6	42.8	41.0	48.0	31.3	39.6	71	17	33	36	36	86	76	82	.196	.225	.227	3.15	.74	4.1	7.0	7.2	6.7
April	29.300	29.686	28.670	46.8	55.4	52.8	60.0	41.5	50.8	80	23	41	44	45	81	69	75	.275	.310	.323	4.06	1.70	6.5	5.9	5.5	5.3
May	29.326	29.630	29.050	54.3	61.3	58.7	65.5	48.5	57.0	89	33	49	51	50	82	72	76	.362	.408	.394	1.72	.79	4.9	4.3	5.2	4.1
June	29.306	29.720	28.980	65.7	74.1	69.5	77.5	58.5	68.0	91	42	58	59	60	78	61	71	.509	.529	.531	1.01	.47	4.3	4.1	4.8	3.8
July	29.304	29.510	28.980	73.6	83.2	78.5	85.4	68.0	76.7	97	58	67	70	68	80	66	72	.667	.743	.697	2.28	.65	2.3	3.3	3.6	3.2
August	29.357	29.630	28.890	65.0	73.2	70.2	76.5	59.7	68.1	90	50	58	58	60	79	61	71	.501	.499	.533	3.34	.93	5.4	5.3	4.6	5.0
September	29.286	29.630	28.680	62.1	72.8	67.9	75.9	57.8	66.8	88	43	57	58	58	85	62	70	.487	.502	.494	2.03	.70	4.2	4.9	3.5	4.0
October	29.249	29.700	28.800	45.9	56.5	51.2	59.2	42.0	50.6	74	29	42	42	43	84	62	75	.268	.279	.286	4.05	1.79	5.2	4.8	4.8	4.9
November	29.333	29.820	28.920	35.2	38.7	37.4	41.8	32.1	37.0	61	18	32	33	34	89	81	86	.187	.195	.203	2.86	.83	8.4	8.2	8.5	8.1
December	29.285	29.780	28.480	28.2	31.4	30.0	35.1	22.9	29.0	54	7	24	26	25	85	79	80	.133	.145	.140	1.60	.52	8.0	8.0	7.9	7.9
Year	29.319	30.230	28.480	47.1	54.3	51.3	57.8	42.3	50.0	97	6	42	44	44	83	70	76	.320	.343	.341	27.65	1.79	5.5	5.8	5.7	5.5

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	29.962	30.750	29.190	23.3	28.4	27.2	34.2	18.4	26.3	48	−3	16	17	18	72	61	66	0.101	0.104	0.112	1.83	0.95	5.5	5.0	4.0	5.0
February	29.953	30.500	29.260	23.6	30.2	29.0	34.4	19.3	25.8	48	7	17	17	19	73	57	65	.101	.099	.108	4.24	1.30	7.1	5.7	4.1	5.8
March	30.016	30.559	29.500	35.9	41.5	40.1	47.3	31.0	39.2	79	14	29	25	30	76	62	69	.174	.179	.181	2.61	.47	4.3	4.2	4.7	6.0
April	29.972	30.540	29.490	44.4	49.6	45.5	52.9	39.3	46.1	69	30	36	37	38	75	65	76	.227	.235	.237	3.41	2.00	6.5	5.2	5.9	6.5
May	29.914	30.340	29.470	54.1	58.5	54.2	63.0	46.1	54.6	93	36	42	42	43	66	55	69	.279	.272	.290	2.06	1.16	4.2	4.5	3.5	4.7
June	29.814	30.260	29.330	64.0	68.7	63.2	71.9	54.7	63.3	90	45	50	49	52	62	52	68	.379	.363	.392	2.70	1.08	4.2	4.5	3.8	4.9
July	29.869	30.160	29.460	67.7	72.8	67.7	76.8	61.4	69.1	93	56	62	63	62	82	72	82	.554	.576	.558	3.20	.78	5.0	4.0	4.6	5.6
August	29.941	30.280	29.440	63.8	70.6	65.7	74.4	56.7	65.6	92	51	53	52	55	70	55	70	.412	.408	.440	2.59	1.62	4.1	3.5	2.6	3.7
September	29.900	30.320	29.450	61.4	68.8	63.0	71.8	54.8	63.3	91	44	52	50	54	72	55	74	.402	.381	.424	1.64	.48	2.9	3.3	2.8	3.3
October	29.830	30.319	29.120	47.3	56.0	51.2	59.5	42.1	50.8	76	31	38	38	41	72	54	70	.244	.245	.268	2.18	.63	4.2	4.0	4.0	4.8
November	29.958	30.442	29.230	33.2	37.1	35.3	40.3	30.3	35.3	57	20	28	27	28	81	70	77	.161	.162	.164	6.85	1.49	7.6	6.9	6.8	7.9
December	29.839	30.650	29.190	23.1	28.4	26.7	33.1	18.1	25.6	51	−2	15	17	17	71	62	66	.101	.104	.104	3.35	1.31	6.0	5.8	5.3	5.7
Year	29.914	30.750	29.120	45.2	50.9	47.4	55.0	39.4	47.2	93	−3	36	36	38	73	60	71	.261	.261	.273	36.66	2.00	5.1	4.7	4.3	5.3

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	29.871	30.450	29.170	39.2	43.3	43.7	46.4	36.8	41.6	57	27	34	36	36	84	78	76	0.202	0.218	0.221	7.82	1.67	7.9	8.4	8.0	8.5
February	29.959	30.360	29.340	42.4	47.0	48.4	50.6	39.9	45.2	64	31	38	39	40	85	76	74	.237	.249	.255	7.21	1.17	8.9	8.3	7.8	8.4
March	29.908	30.250	29.360	43.4	50.3	53.5	54.7	41.2	48.0	69	34	39	40	40	84	68	64	.238	.248	.267	4.28	1.80	7.2	7.4	7.3	8.0
April	29.946	30.310	29.530	44.7	54.8	56.2	58.9	42.6	50.8	73	32	39	40	40	81	62	59	.239	.258	.256	2.26	.51	7.2	8.0	7.9	8.0
May	29.850	30.200	29.490	49.0	60.8	64.6	66.5	47.7	57.1	80	40	43	42	43	80	52	49	.277	.267	.283	.99	.25	5.9	6.3	6.1	6.2
June	29.833	30.030	29.550	57.1	67.7	70.8	72.9	56.0	64.4	83	50	51	52	51	81	58	51	.379	.388	.379	1.36	.54	8.0	8.0	6.9	7.8
July	29.955	30.180	29.770	55.4	68.3	75.7	76.6	54.8	65.7	89	46	50	50	51	81	53	42	.356	.363	.373	T.	T.	4.6	3.0	1.9	3.8
August	29.876	30.120	29.610	57.6	70.8	76.2	77.5	56.6	67.0	90	50	52	53	53	84	54	46	.399	.404	.403	.30	.24	5.1	3.8	2.6	4.1
September	29.885	30.210	29.460	52.9	65.6	67.8	69.7	51.3	60.5	78	44	48	47	46	83	52	48	.333	.326	.317	3.08	1.94	5.8	5.7	4.8	5.7
October	29.872	30.200	29.510	50.5	60.5	62.7	65.5	48.6	57.0	79	42	47	49	49	89	67	63	.326	.348	.350	2.78	1.16	5.5	6.0	5.2	5.9
November	29.880	30.210	29.300	45.6	50.2	51.3	54.5	43.0	48.8	68	29	43	44	45	92	79	80	.282	.288	.302	10.04	4.43	9.2	8.4	8.2	8.9
December	29.970	30.609	29.070	37.5	41.0	40.7	44.0	34.2	39.1	62	21	31	32	32	78	70	70	.183	.192	.188	3.09	.84	7.3	6.9	7.4	7.5
Year	29.900	30.609	29.070	47.9	56.7	59.3	61.5	46.1	53.8	90	21	43	44	44	84	64	60	.288	.296	.299	43.21	4.43	6.9	6.7	6.2	6.9

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	29.922	30.710	29.240	28.2	33.6	31.5	39.5	22.9	31.2	55	0	22	24	23	76	66	70	0.134	0.143	0.140	3.32	2.07	5.5	5.5	4.6	5.5
February	29.876	30.360	29.150	29.2	36.1	32.4	38.8	24.1	31.4	58	8	24	27	26	81	70	78	.137	.152	.148	2.23	1.44	6.4	6.4	4.4	6.1
March	29.979	30.458	29.510	41.3	48.9	44.8	54.0	35.4	44.7	64	19	34	37	36	78	65	73	.220	.244	.230	2.50	.93	4.3	5.3	5.6	5.4
April	29.876	30.380	29.480	48.8	55.6	49.8	60.6	42.0	51.3	82	32	40	41	43	75	63	78	.261	.276	.282	4.21	1.30	6.9	6.6	5.6	6.9
May	29.837	30.255	29.460	55.9	62.7	58.8	67.0	47.9	57.4	91	37	45	45	46	68	55	68	.305	.311	.317	2.60	.97	5.9	5.3	4.8	5.4
June	29.770	30.098	29.320	67.5	74.7	67.1	77.6	58.1	67.8	93	48	54	52	54	63	48	65	.430	.416	.433	3.35	2.32	4.2	5.0	4.5	4.7
July	29.810	30.038	29.420	72.1	79.0	71.6	81.6	65.0	73.3	93	57	66	67	66	80	70	82	.633	.678	.629	5.35	2.36	5.8	7.0	6.2	6.7
August	29.900	30.170	29.420	68.1	75.1	68.5	77.8	59.5	68.6	91	49	58	56	58	79	54	71	.492	.471	.501	1.88	.84	4.0	4.0	3.6	4.2
September	29.854	30.210	29.470	65.5	74.2	67.0	77.3	58.6	68.0	92	48	56	56	58	72	55	75	.462	.468	.507	1.33	.59	4.1	3.8	2.8	4.2
October	29.791	30.270	29.130	51.4	61.0	53.8	63.1	44.8	54.0	77	30	42	41	42	72	50	67	.287	.272	.286	1.22	.70	4.1	4.4	3.2	4.5
November	29.876	30.295	29.320	38.1	42.9	41.1	47.5	34.5	41.0	70	25	33	34	34	81	74	79	.196	.213	.211	6.36	1.27	6.7	6.6	6.3	6.8
December	29.796	30.530	29.120	28.9	33.7	32.1	38.3	23.5	30.9	50	3	20	22	22	72	62	65	.123	.127	.130	2.43	.70	5.7	5.6	4.3	5.5
Year	29.856	30.710	29.120	49.5	56.5	51.4	60.3	43.0	54.6	93	0	41	42	42	74	61	73	.307	.314	.319	36.78	2.36	5.3	5.4	4.8	5.5

Annual meteorological summary for the year ending December 31, 1921—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 below.	90° or above.	Minimum temperature 32° or below.	Electricity. Thunderstorms.	Auroras.
	Miles.		*Mi.*																									
January	12.6	SW.	48	W.	1	3	5	5	4	9	16	8	12	0	8	9	14	9	5	9	6	0	1	9	0	23	0	0
February	11.7	SW.	50	W.	1	2	10	6	7	3	10	8	10	0	5	7	16	11	5	15	8	0	0	13	0	26	0	0
March	12.7	SW.	35	W.	0	7	8	3	7	11	11	6	9	0	6	9	16	17	12	6	1	0	0	2	0	15	6	0
April	13.0	S.	35	NE.	0	8	8	1	7	13	9	9	5	0	11	8	11	10	9	3	1	1	0	0	0	5	2	0
May	11.6	N.	36	SW.	0	19	12	4	7	6	3	8	3	0	11	16	4	5	5	0	0	2	1	0	0	0	6	3
June	8.2	NE.	33	NW.	0	10	19	5	6	6	6	5	3	0	9	18	3	5	4	0	0	0	0	0	1	0	10	0
July	8.2	SW.	38	SW.	0	6	18	2	1	9	16	6	4	0	16	14	1	11	8	0	0	0	0	0	9	0	9	0
August	8.7	SW.	47	NW.	1	3	9	6	8	9	11	6	10	0	8	17	6	12	9	0	0	2	0	0	1	0	7	0
September	9.7	SW.	42	W.	1	3	4	3	13	10	7	8	12	0	13	13	4	9	6	0	0	0	3	0	0	0	2	0
October	11.8	SW.	38	NW.	0	2	4	7	5	7	15	10	12	0	10	12	9	14	10	1	0	0	2	0	0	2	1	0
November	12.3	NW.	44	N.	2	1	9	8	7	8	8	9	10	0	1	8	21	16	9	8	8	0	2	1	0	16	0	0
December	13.4	NW.	54	W.	3	1	3	1	9	8	11	14	15	0	1	12	18	11	8	15	6	0	1	13	0	28	0	0
Year	11.2	SW.	54	W.	9	65	109	51	81	99	123	97	105	0	99	143	123	130	90	57	30	5	10	[illegible]	11	115	43	3

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 below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	9.8	NW.	46	NW.	1	10	1	1	2	6	12	10	19	1	14	2	15	11	6	7	5	0	0	8	0	28	0	0
February	8.7	N.	34	W.	0	16	1	2	1	6	10	4	15	1	9	7	12	12	8	10	8	0	0	6	0	27	0	0
March	10.5	S.	43	S.	1	5	5	1	5	15	11	4	15	1	10	6	15	15	14	1	0	0	5	1	0	15	0	0
April	9.6	N.	30	NW.	0	15	9	8	3	10	5	2	4	4	8	8	14	11	7	2	1	0	4	0	0	2	0	0
May	8.9	S.	59	NW.	1	8	13	5	4	13	10	5	3	1	13	10	8	7	6	0	0	0	5	0	2	0	1	0
June	9.1	NW.	31	NW.	0	5	3	4	2	13	12	4	17	0	13	8	9	10	9	0	0	0	2	0	0	0	4	0
July	6.7	S.	30	SW.	0	7	6	5	6	12	17	1	5	3	10	9	12	13	11	0	0	0	7	0	2	0	7	0
August	7.6	S.	32	SE.	0	4	0	5	1	15	13	11	12	1	18	8	5	5	3	0	0	0	0	0	1	0	0	0
September	8.4	S.	40	SE.	1	3	3	2	2	16	11	11	10	2	19	5	6	10	8	0	0	0	4	0	1	0	1	1
October	8.8	SW.	36	SE.	0	8	3	0	1	10	17	8	10	5	15	5	11	8	7	0	0	0	3	0	0	1	1	0
November	9.9	N.	42	NW.	1	22	4	0	2	5	5	12	9	1	4	5	21	19	16	9	7	0	1	5	0	17	0	0
December	8.7	NW.	47	S.	1	14	1	1	1	3	14	11	15	2	9	10	12	12	10	9	8	0	0	13	0	29	1	0
Year	8.9	S.	59	NW.	6	117	49	34	30	124	137	83	134	22	142	83	140	133	105	38	29	0	31	33	6	119	15	1

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 below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	8.1	SW.	29	SW.	0	4	1	12	10	15	12	4	4	0	2	6	23	25	23	5	4	0	3	0	0	5	0	0
February	6.6	SE.	24	E.	0	5	2	8	9	16	4	2	10	0	1	7	20	20	17	5	5	0	2	0	0	1	0	0
March	6.4	NW.	25	SW.	0	6	2	2	3	16	9	10	14	0	3	5	23	14	12	3	2	0	3	0	0	0	0	0
April	6.6	SW.	26	SW.	0	6	0	3	7	16	7	6	15	0	2	7	21	15	11	1	0	0	0	0	0	0	0	0
May	6.3	NW.	24	SW.	0	10	1	0	3	11	7	4	26	0	8	9	14	10	8	0	0	0	0	0	0	0	0	2
June	6.0	NW.	22	SW.	0	9	1	0	2	16	10	6	16	0	2	7	21	12	6	0	0	0	0	0	0	0	0	0
July	6.7	NW.	23	W.	0	22	1	0	1	0	2	3	32	1	14	13	4	0	0	0	0	0	0	0	0	0	0	0
August	5.8	NW.	21	NW.	0	13	2	1	3	8	2	3	27	3	16	10	5	4	2	0	0	0	0	0	0	0	1	0
September	5.4	NW.	20	SW.	0	5	1	1	6	6	6	4	28	3	8	9	13	9	7	0	0	0	1	0	0	0	1	0
October	5.6	NW.	26	SW.	0	7	0	2	9	10	6	4	24	0	10	4	17	12	10	0	0	1	6	0	0	0	1	0
November	6.1	SE.	28	S.	0	1	2	4	11	13	11	7	10	1	1	3	26	19	14	0	0	0	5	0	0	1	0	0
December	7.3	SE.	42	W.	1	8	2	11	15	11	1	6	8	0	4	7	20	16	10	9	6	0	5	2	0	14	0	0
Year	6.4	NW.	42	W.	1	96	15	44	79	138	77	59	214	8	71	87	207	156	120	23	17	1	25	2	0	21	3	2

PROVIDENCE, R. I.

[H_b=160 ft.; h_t=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 below.	90° or above.	Minimum temperature 32° or below.	Thunderstorms.	Auroras.
January	14.1	NW.	60	W.	6	5	2	2	1	6	13	15	18	0	10	9	12	11	9	8	5	0	1	6	0	22	0	0
February	12.4	NW.	49	NW.	4	7	4	3	5	3	10	7	17	0	6	14	8	9	7	12	4	0	1	3	0	24	0	0
March	13.9	S.	40	NW.	6	3	5	0	5	20	11	5	13	0	9	11	11	13	6	2	0	0	3	0	0	7	1	0
April	11.6	NE.	44	NW.	2	9	13	4	6	6	8	6	8	0	7	6	17	14	9	3	3	0	1	0	0	2	0	0
May	12.2	NE.	50	NW.	2	7	16	6	8	8	8	7	2	0	11	10	10	8	8	0	0	0	3	0	2	0	2	0
June	11.6	SW.	44	N.	2	8	1	2	4	8	17	10	10	0	11	14	5	9	6	0	0	0	0	0	1	0	7	0
July	8.8	SW.	36	NW.	0	8	5	4	6	17	15	4	3	0	6	12	13	12	10	0	0	0	0	0	5	0	6	0
August	10.7	SW.	39	NW.	0	9	3	4	2	11	14	10	9	0	14	11	6	6	4	0	0	0	0	0	1	0	2	0
September	10.4	NW.	39	NW.	0	6	4	4	4	14	8	7	13	0	13	12	5	8	8	0	0	0	0	0	2	0	6	0
October	12.0	W.	54	W.	4	5	2	0	3	11	11	17	13	0	14	10	7	6	5	0	0	0	1	0	0	1	0	0
November	12.5	NW.	67	NW.	2	15	6	0	3	4	4	9	19	0	9	4	17	19	15	4	3	0	2	0	0	8	0	0
December	14.7	NW.	58	NW.	7	8	0	0	3	5	7	12	27	0	12	6	13	9	6	9	5	0	0	6	0	24	1	0
Year	12.1	NW.	67	NW.	35	90	61	29	50	113	126	109	152	0	122	119	124	124	93	38	20	0	12	15	11	88	25	0

Annual meteorological summary for the year ending December 31, 1921—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	25.294	25.650	24.970	28.5	42.3	41.1	48.4	22.5	35.4	68	3	18	19	20	65	42	44	0.095	0.101	0.105	0.30	0.26	2.9	6.1	4.2	5.8
February	25.267	25.620	24.690	27.1	48.1	46.3	53.5	23.0	38.2	73	10	18	18	19	68	33	36	.093	.098	.101	.07	.07	2.7	4.0	4.8	4.1
March	25.211	25.715	24.620	36.5	55.1	56.9	61.8	32.1	47.0	80	11	24	23	23	62	33	30	.128	.123	.124	.20	.12	5.1	5.3	5.6	5.5
April	25.176	25.770	24.590	37.1	56.8	57.0	62.4	33.7	48.0	82	19	26	24	24	66	33	34	.142	.131	.130	.79	.65	4.2	5.6	4.8	5.4
May	25.210	25.520	24.870	49.6	70.9	71.3	77.0	47.5	62.2	93	36	38	35	35	66	29	31	.240	.215	.215	.98	.97	4.4	5.3	6.4	5.5
June	25.278	25.469	24.920	59.1	77.4	76.5	81.6	56.2	68.9	94	45	50	49	46	74	40	39	.371	.351	.330	7.14	2.93	4.6	4.7	6.4	4.9
July	25.355	25.567	24.810	62.8	83.1	81.7	87.2	61.3	74.2	99	50	55	52	51	76	37	40	.437	.400	.398	5.26	2.06	4.0	4.0	5.0	4.6
August	25.378	25.570	25.160	61.5	81.3	80.2	85.7	60.0	72.8	93	52	53	51	53	77	38	41	.412	.383	.407	2.24	.83	4.3	3.5	6.7	4.8
September	25.274	25.570	24.950	52.7	77.3	77.7	82.8	50.6	66.7	95	33	39	38	40	61	27	29	.244	.243	.265	.25	.25	2.8	2.6	2.7	2.9
October	25.326	25.660	24.720	43.4	69.5	65.3	73.2	39.8	56.5	85	28	28	27	31	55	22	30	.150	.145	.176	1.21	.61	3.6	3.9	3.0	3.8
November	25.291	25.580	24.940	31.1	53.8	49.7	58.8	26.7	42.8	77	5	21	22	23	66	34	39	.110	.120	.124	.72	.72	3.0	4.5	3.1	3.8
December	25.320	25.690	24.760	26.8	41.4	38.0	47.0	21.5	34.2	71	−1	20	25	25	75	56	63	.105	.133	.137	1.12	.79	3.4	5.3	3.6	5.1
Year	25.[illegible]82	25.770	24.590	43.0	63.1	61.8	68.3	39.6	53.9	99	−1	32	32	32	68	35	38	.211	.204	.209	20.28	2.93	3.8	4.6	4.7	4.7

RALEIGH, N. C.

[ϕ=35° 45′ N.; λ=78° 37′ W.]

January	29.789	30.442	29.230	36.8	46.8	45.2	51.4	33.9	42.6	72	17	28	30	30	72	54	58	0.167	0.181	0.184	3.97	1.51	6.1	6.6	4.2	6.5
February	29.678	30.090	29.170	38.5	48.9	47.9	53.7	36.2	45.0	73	26	32	36	36	78	64	66	.189	.228	.220	3.52	1.76	6.5	5.9	4.1	6.3
March	29.767	30.070	29.420	52.6	64.8	63.6	69.9	48.4	59.2	86	31	46	48	50	80	57	63	.334	.361	.379	3.91	1.57	5.6	6.4	4.0	5.6
April	29.674	30.010	29.270	56.0	67.3	64.1	71.9	50.9	61.4	87	35	46	45	46	71	49	54	.343	.339	.332	2.12	1.06	5.2	6.0	4.4	6.0
May	29.590	29.961	29.240	61.2	69.9	66.7	73.9	55.8	64.8	90	44	53	52	55	75	58	69	.419	.414	.457	4.00	1.59	6.7	8.1	7.7	7.8
June	29.600	29.890	29.320	72.4	82.2	78.6	86.3	65.9	76.1	97	52	63	62	63	75	51	61	.600	.565	.598	1.14	.78	4.7	5.8	5.6	5.4
July	29.640	29.909	29.390	74.5	83.3	78.8	87.6	70.2	78.9	96	63	70	69	70	87	62	75	.736	.710	.724	2.67	.45	7.1	6.8	6.2	6.8
August	29.693	29.854	29.440	71.5	82.1	78.8	86.5	67.6	77.0	97	57	65	62	66	81	52	65	.636	.572	.636	1.62	.52	4.6	6.1	5.0	5.3
September	29.648	29.870	29.420	72.3	84.6	78.9	88.8	68.2	78.5	97	56	67	65	66	85	54	66	.673	.631	.650	3.01	.97	4.4	4.3	2.9	4.2
October	29.635	30.140	29.180	54.0	67.7	63.0	71.9	49.8	60.8	83	35	48	45	47	80	47	57	.348	.323	.336	1.05	.57	4.1	3.4	2.4	3.9
November	29.678	29.957	29.150	49.1	59.0	55.7	64.0	45.1	54.6	78	29	45	45	46	86	62	72	.313	.316	.324	2.13	.76	4.6	5.2	3.8	5.3
December	29.681	30.250	29.060	39.8	49.9	46.5	54.9	36.7	45.8	71	25	34	36	36	78	61	67	.201	.221	.221	2.86	1.26	6.3	6.2	3.7	5.6
Year	29.673	30.442	29.060	56.6	67.2	64.0	71.7	52.4	62.1	97	17	50	50	51	79	56	64	.413	.405	.422	32.09	1.76	5.5	5.9	4.5	5.7

RAPID CITY, S. DAK.

[ϕ=44° 04′ N.; λ=103° 12′ W.]

January	26.577	26.928	26.020	26.7	36.3	31.0	41.7	20.1	30.9	62	2	16	19	17	62	50	54	0.092	0.102	0.094	0.78	0.62	4.6	5.0	4.2	5.2
February	26.553	27.062	25.880	30.7	41.0	36.9	45.6	22.6	34.1	70	5	18	21	23	60	46	56	.105	.114	.126	.23	.21	4.3	5.1	6.4	5.0
March	26.521	27.050	26.080	30.0	44.2	43.5	51.5	24.2	37.8	78	9	18	25	27	58	50	54	.102	.142	.155	.16	.06	4.9	6.1	7.2	6.1
April	26.513	27.150	25.910	37.5	51.7	51.0	57.3	32.7	45.0	81	15	21	27	27	52	43	44	.115	.149	.148	.36	.21	4.9	5.6	5.6	5.4
May	26.579	26.960	26.140	46.8	57.3	58.8	63.2	43.7	53.4	88	30	37	40	40	69	57	53	.222	.260	.252	2.50	1.16	6.4	7.0	7.3	6.9
June	26.570	26.940	26.180	63.4	76.8	75.3	81.1	58.4	69.8	97	48	51	51	54	65	45	51	.381	.385	.420	3.36	1.11	4.2	4.3	6.2	4.9
July	26.644	26.813	26.180	64.3	81.1	81.1	85.6	60.0	72.8	99	47	52	50	50	65	37	37	.391	.377	.368	1.65	.59	3.5	4.4	3.8	4.4
August	26.650	26.950	26.309	61.4	78.1	77.5	83.0	58.0	70.5	97	46	49	50	51	66	41	44	.361	.377	.388	1.99	1.09	3.8	3.5	5.2	4.8
September	26.566	26.825	26.160	51.8	67.6	66.2	73.0	46.0	59.5	93	29	35	38	37	56	38	37	.213	.242	.231	.95	.26	3.9	4.2	4.6	4.5
October	26.619	26.990	26.180	46.8	62.1	56.8	66.7	39.9	53.3	85	27	26	30	28	45	32	34	.141	.171	.153	T.	T.	3.9	3.4	3.8	3.7
November	26.598	27.050	26.070	29.9	39.3	34.5	44.6	22.0	33.3	72	−3	18	23	20	60	56	59	.102	.128	.116	.63	.22	5.7	7.1	5.8	7.0
December	26.659	27.000	26.150	24.4	33.0	25.9	37.6	16.2	26.9	66	−12	14	18	15	66	56	62	.095	.107	.092	.70	.25	4.6	5.4	4.7	5.7
Year	26.587	27.150	25.880	42.8	55.7	53.2	60.9	37.0	48.9	99	−12	30	33	32	60	46	49	.193	.213	.212	13.31	1.16	4.6	5.1	5.3	5.3

READING, PA.

[ϕ=40° 20′ N.; λ=75° 58′ W.]

January	29.818	30.597	29.180	29.3	35.7	34.1	40.0	25.8	32.9	56	5	22	23	24	74	59	64	0.127	0.133	0.135	2.79	1.74	6.6	6.1	4.8	6.4
February	29.730	30.226	29.057	31.1	37.4	36.4	41.1	27.7	34.4	69	11	25	25	26	76	62	65	.134	.139	.143	2.66	1.27	7.3	7.3	6.2	7.0
March	29.797	30.235	29.346	44.7	54.8	53.0	61.5	38.7	50.1	84	23	36	39	40	73	57	63	.241	.267	.275	2.43	.82	6.1	6.4	5.8	5.9
April	29.698	30.090	29.220	53.3	61.6	59.6	67.4	46.9	57.2	85	28	43	44	44	71	56	60	.301	.305	.315	5.76	2.42	6.1	6.0	4.8	5.8
May	29.658	30.089	29.340	58.1	67.1	63.7	71.0	51.8	61.4	88	43	47	46	49	68	51	61	.329	.330	.359	3.34	1.44	6.1	7.3	6.4	6.6
June	29.637	29.966	29.231	68.8	79.0	75.3	83.8	61.8	72.8	96	51	56	54	56	65	43	54	.466	.438	.478	1.06	.51	4.1	4.8	4.5	3.7
July	29.657	29.930	29.310	75.4	83.8	79.3	87.9	69.3	78.6	97	63	68	69	69	77	62	71	.678	.703	.705	2.55	.92	5.4	6.9	5.8	5.9
August	29.748	29.962	29.376	66.9	77.3	72.7	80.5	61.5	71.0	94	53	59	57	59	76	52	64	.508	.481	.512	4.13	1.98	4.0	4.4	3.1	3.6
September	29.699	29.958	29.330	66.6	76.2	71.5	80.8	61.8	71.3	95	52	58	58	60	77	58	69	.503	.512	.538	3.70	1.68	5.0	5.9	3.9	5.2
October	29.674	30.194	29.153	49.1	60.9	56.4	65.3	44.9	55.1	77	32	42	43	44	77	54	64	.275	.287	.298	1.50	.55	4.4	4.2	1.6	4.2
November	29.720	30.136	29.112	41.8	46.7	45.1	49.9	37.5	43.7	78	28	37	39	38	84	77	78	.230	.253	.246	5.87	2.26	7.5	7.3	5.5	7.4
December	29.698	30.362	29.060	30.9	36.0	34.1	40.5	26.4	33.4	60	9	26	28	28	82	74	76	.147	.157	.155	2.17	.87	6.8	5.8	5.3	6.4
Year	29.711	30.597	29.057	51.3	59.7	56.8	64.1	46.2	55.2	97	5	43	44	45	75	59	66	.329	.334	.347	37.96	2.42	5.8	6.0	4.8	5.7

Annual meteorological summary for the year ending December 31, 1921—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	7.6	NW.	39	NW.	0	9	7	7	8	1	1	12	16	1	5	15	11	4	2	4	2	0	0	3	0	27	0	0
February	6.1	NW.	30	NW.	0	7	4	9	10	0	3	5	17	1	13	9	6	2	1	5	2	0	0	1	0	27	0	0
March	8.0	NW.	36	NW.	0	9	6	7	12	0	2	10	14	2	8	14	9	3	2	6	3	0	0	0	0	17	0	0
April	6.6	NW.	24	NE.	0	11	10	3	8	1	0	15	12	0	7	18	5	5	4	5	3	0	1	0	0	15	2	0
May	7.1	E.	32	W.	0	7	6	10	9	1	8	9	12	0	5	17	6	2	1	0	0	1	0	0	2	0	3	0
June	5.8	E.	34	W.	0	10	1	13	4	3	2	8	18	1	12	12	6	11	9	0	0	1	0	0	6	0	14	0
July	5.2	E.	26	NW.	0	12	6	14	7	1	2	9	11	0	12	15	4	8	7	0	0	0	1	0	12	0	9	0
August	5.5	NW.	30	NW.	0	9	2	15	7	4	5	6	13	1	8	20	3	10	7	0	0	0	0	0	10	0	13	0
September	6.4	NW.	36	NW.	0	10	1	11	15	0	0	2	21	0	19	10	1	1	1	0	0	0	1	0	5	0	1	0
October	5.8	NW.	33	NW.	0	12	4	17	9	0	1	7	12	0	13	16	2	5	3	1	0	0	0	0	0	4	0	0
November	5.4	NW.	30	NW.	0	9	4	13	9	1	1	6	17	0	15	13	2	2	2	3	2	0	0	0	0	26	0	0
December	5.2	NW.	32	W.	0	8	6	15	5	1	1	9	16	1	7	19	5	5	5	7	5	0	0	5	0	27	0	0
Year	6.2	NW.	39	NW.	0	113	57	134	103	13	26	98	179	7	127	178	60	58	44	31	17	2	3	9	35	143	42	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	9.3	NE.	38	NW.	0	9	20	2	1	2	9	11	8	0	6	10	15	9	6	4	3	0	1	1	0	12	0	0
February	8.2	NE.	33	NW.	0	5	16	2	6	4	9	6	7	1	6	9	13	9	7	2	2	0	2	0	0	8	0	0
March	9.2	SW.	36	W.	0	5	15	5	2	5	24	2	4	0	10	7	14	11	9	0	0	0	0	0	0	1	3	0
April	9.2	SW.	32	SE.	0	7	8	5	4	11	11	5	7	2	9	4	17	10	9	0	0	0	0	0	0	0	3	0
May	7.6	NE.	30	NW.	0	4	17	9	6	4	4	8	8	2	1	9	21	14	12	0	0	0	0	0	1	0	4	1
June	7.1	SW.	27	S.	0	4	9	6	4	6	15	7	9	0	7	16	7	9	6	0	0	0	0	0	9	0	7	0
July	6.9	SW.	31	SE.	0	3	6	8	5	7	20	8	3	2	2	18	11	12	9	0	0	0	0	0	9	0	9	0
August	7.6	SW.	31	W.	0	0	10	14	7	3	18	7	2	1	11	10	10	8	8	0	0	0	1	0	10	0	5	0
September	5.7	SW.	33	N.	0	5	12	6	2	11	18	4	2	0	12	14	4	13	10	0	0	0	0	0	13	0	9	0
October	8.6	NE.	31	NW.	0	6	18	3	6	2	15	4	7	1	18	6	7	4	3	0	0	0	2	0	0	0	0	0
November	7.2	SW.	34	W.	0	5	15	0	4	6	13	5	10	2	10	11	9	9	8	0	0	0	4	0	0	1	0	0
December	8.1	SW.	34	NW.	0	11	6	6	3	3	15	13	5	0	6	16	9	6	5	0	0	0	0	0	0	8	0	0
Year	7.9	SW.	38	NW.	0	64	152	66	50	64	171	80	72	11	98	130	137	114	92	6	5	0	10	1	42	30	40	1

RAPID CITY, S. DAK.

[H_b=3,234 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	8.0	W.	39	NW.	0	14	2	3	7	5	2	17	12	0	13	7	11	5	3	7	4	0	0	6	0	31	0	0
February	9.4	W.	44	NW.	3	10	5	2	7	4	2	11	15	0	11	8	9	2	1	4	2	0	0	5	0	19	0	0
March	10.7	N.	44	N.	2	22	0	3	8	2	5	15	7	0	8	11	12	3	3	7	3	0	0	5	0	23	1	0
April	11.1	N.	36	N.	0	17	4	0	1	6	7	14	10	1	10	12	8	6	3	6	3	0	0	0	0	13	1	0
May	9.3	N.	37	S.	0	17	4	4	14	5	2	12	3	1	5	11	15	15	7	0	0	2	1	0	0	1	5	0
June	7.9	W.	37	NW.	0	6	2	1	8	12	4	20	7	0	10	14	6	12	9	0	0	0	0	0	6	0	11	0
July	6.9	W.	38	NW.	0	7	3	3	8	10	8	20	2	1	12	16	3	11	9	0	0	1	0	0	9	0	13	0
August	7.1	W.	34	NW.	0	14	2	1	9	9	4	18	5	0	10	15	6	12	6	0	0	0	1	0	8	0	8	0
September	8.7	W.	44	NW.	2	10	4	6	6	4	3	15	12	0	11	14	5	8	6	0	0	0	0	0	2	1	5	0
October	9.6	W.	42	N.	1	16	2	1	2	4	1	19	17	0	15	13	3	0	0	0	0	0	0	0	0	4	0	0
November	8.2	W.	36	N.	0	16	2	2	9	3	1	16	11	0	3	11	16	8	4	8	8	0	1	7	0	23	0	0
December	7.5	W.	46	NW.	1	12	2	5	3	3	3	19	15	0	10	10	11	6	6	8	6	0	0	13	0	28	0	0
Year	8.7	W.	46	NW.	9	161	32	31	82	67	42	196	116	3	118	142	105	88	57	40	26	3	3	36	25	143	44	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	6.4	NW.	26	NW.	0	15	2	2	8	5	5	6	19	0	8	5	18	10	6	10	3	0	1	5	0	23	0	0
February	6.4	NW.	29	NW.	0	10	7	4	12	3	4	4	12	0	5	7	16	11	10	6	4	0	2	5	0	18	0	0
March	6.4	SE.	30	NW.	0	7	3	0	22	6	13	1	10	0	7	11	13	13	10	1	1	0	0	0	0	7	4	0
April	6.2	SE.	25	SE.	0	6	2	1	23	4	7	4	10	3	10	6	14	13	11	4	3	0	0	0	0	3	2	0
May	5.3	NW.	28	NE.	0	4	9	5	14	4	8	5	12	1	7	7	17	9	6	0	0	0	0	0	0	0	3	2
June	2.6	SE.	25	E.	0	6	4	0	17	4	11	1	16	1	19	6	5	7	5	0	0	0	0	0	9	0	5	0
July	4.7	SE.	27	SW.	0	4	2	1	16	10	13	3	11	2	12	5	14	9	9	0	0	0	0	0	10	0	10	0
August	5.2	SE.	24	N.	0	6	0	6	22	4	10	1	13	0	19	6	6	7	5	0	0	0	1	0	2	0	2	0
September	3.3	SE.	28	NW.	0	7	0	2	20	7	10	6	7	1	13	8	9	9	8	0	0	0	0	0	3	0	7	0
October	3.3	NW.	20	NW.	0	3	4	1	10	9	16	4	15	0	15	13	3	6	6	0	0	0	1	0	0	1	1	0
November	3.6	NW.	20	NW.	0	5	5	5	13	6	2	8	16	0	3	9	18	17	14	2	1	0	4	0	0	1	1	0
December	7.2	NW.	43	SW.	1	4	5	0	9	8	7	11	18	0	7	10	14	9	6	10	4	1	1	5	0	23	0	0
Year	5.0	SE.	43	SW.	1	77	43	27	186	70	106	54	159	8	125	93	147	120	96	33	16	1	10	15	24	76	35	2

Annual meteorological summary for the year ending December 31, 1921—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	29.757	30.200	29.190	41.0	45.9	48.6	49.9	38.4	44.2	58	32	36	37	38	83	74	70	0.216	0.226	0.236	7.33	2.26	5.4	6.5	5.9	5.9
February	29.781	30.120	29.270	43.5	53.9	58.9	60.2	41.4	50.8	75	32	40	40	40	84	60	54	.247	.251	.261	1.44	1.13	3.2	4.4	4.8	3.8
March	29.677	30.020	29.220	48.9	59.6	63.7	64.9	47.0	56.0	79	40	44	44	46	83	61	55	.287	.300	.313	1.80	.56	4.6	4.8	4.9	4.4
April	29.682	29.950	29.384	48.2	64.2	68.7	69.9	46.6	58.2	91	36	39	42	39	74	46	36	.248	.276	.248	.43	.20	2.2	2.5	3.9	2.7
May	29.551	29.890	29.120	53.1	68.1	73.0	74.6	50.9	62.8	91	41	46	48	47	79	53	44	.317	.340	.330	2.05	.48	3.8	3.4	3.2	3.0
June	29.525	29.740	29.300	63.8	81.8	88.7	89.9	62.5	76.2	106	48	50	52	49	63	37	28	.371	.395	.360	.06	.06	1.8	1.3	2.1	2.0
July	29.512	29.660	29.390	68.0	91.7	98.1	98.9	65.9	82.4	106	50	47	47	41	49	23	15	.333	.331	.264	.00	.00	.1	.1	.1	.0
August	29.541	29.700	29.365	64.8	85.9	92.5	93.2	61.8	77.5	106	54	48	47	43	56	26	19	.340	.325	.288	.00	.00	.4	.5	.9	.4
September	29.527	29.770	29.250	61.0	79.9	86.5	87.1	58.5	72.8	101	50	44	48	45	57	36	26	.295	.338	.303	T.	T.	1.1	1.2	1.4	1.2
October	29.628	30.060	29.240	54.7	71.8	77.8	78.9	52.0	65.4	97	38	47	49	48	77	47	38	.330	.352	.338	.65	.27	2.4	2.7	2.4	2.9
November	29.745	30.030	29.438	45.0	60.2	63.6	65.8	42.2	54.0	84	27	38	43	41	75	56	49	.234	.287	.265	1.52	.58	3.3	3.7	4.1	4.2
December	29.707	30.170	29.050	41.0	50.2	54.7	57.0	38.8	47.9	67	28	36	40	41	82	70	63	.213	.253	.259	7.10	1.97	4.6	5.7	4.7	5.9
Year	29.636	30.200	29.050	52.8	67.8	72.9	74.2	50.5	62.4	106	27	43	45	43	72	49	41	.286	.306	.299	22.38	2.26	2.7	3.1	3.2	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	25.464	25.890	24.909	28.9	40.0	40.0	45.2	24.4	34.8	63	10	22	28	27	75	61	58	0.118	0.154	0.142	0.84	0.40	4.9	5.5	5.1	5.2
February	25.537	25.930	24.990	30.9	47.3	49.3	53.9	26.9	40.4	71	15	24	28	27	74	48	42	.129	.158	.145	.18	.11	3.1	5.8	5.1	4.8
March	25.448	25.790	25.060	35.6	54.1	53.7	58.4	32.2	45.3	76	21	25	27	27	65	36	36	.136	.148	.144	.13	.06	3.0	5.0	4.6	4.3
April	25.440	25.810	25.060	36.0	55.1	55.5	60.0	32.8	46.4	76	20	25	24	24	63	30	31	.133	.128	.130	.01	.01	3.6	4.8	4.8	4.3
May	25.363	25.570	25.099	42.4	61.7	61.5	66.0	40.4	53.2	81	29	32	31	29	69	35	32	.187	.177	.164	2.57	1.53	3.8	5.8	6.3	4.9
June	25.445	25.610	25.240	50.6	75.2	74.7	79.6	49.4	64.5	92	36	39	36	35	65	26	25	.238	.218	.207	.23	.18	3.0	3.6	4.2	3.3
July	25.504	25.630	25.350	54.6	84.7	85.4	89.8	53.6	71.7	96	37	37	37	34	52	19	17	.226	.235	.204	.15	.08	.5	.8	2.1	1.0
August	25.496	25.650	25.361	53.8	82.8	82.1	87.1	52.0	69.6	98	45	37	34	34	54	18	19	.223	.203	.204	.10	.09	.7	.9	2.5	1.1
September	25.459	25.640	25.280	45.9	72.8	74.0	77.9	43.3	60.6	88	33	29	29	27	53	21	19	.164	.166	.148	.12	.12	1.2	1.2	1.6	1.3
October	25.516	25.910	25.096	40.8	66.3	66.5	71.7	37.5	54.6	85	25	28	29	27	61	28	26	.155	.165	.147	.39	.36	1.6	3.2	3.4	2.8
November	25.543	25.770	25.228	34.4	55.3	53.5	60.3	29.6	45.0	74	9	23	25	24	63	34	33	.122	.135	.130	.20	.13	3.5	4.0	3.5	3.7
December	25.502	25.990	24.930	28.8	42.0	41.1	47.2	25.2	36.2	69	13	22	25	23	75	54	52	.119	.135	.126	2.35	.73	4.6	5.6	5.3	5.4
Year	25.476	25.990	24.909	40.2	61.4	61.4	66.4	37.3	51.9	98	9	29	29	28	64	34	32	.162	.168	.158	7.27	1.53	2.8	3.8	4.0	3.5

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	30.044	30.780	29.430	34.8	43.9	41.2	48.6	31.2	39.9	69	15	30	32	30	82	63	66	0.178	0.192	0.179	3.80	2.66	7.6	5.5	4.6	6.4
February	29.943	30.410	29.320	35.3	45.8	43.7	51.1	33.0	42.0	72	25	32	37	37	87	73	78	.185	.230	.228	3.52	1.44	6.6	5.9	4.5	6.1
March	30.025	30.381	29.650	50.1	63.3	59.8	69.0	46.2	57.6	87	28	47	52	51	89	70	75	.341	.416	.405	2.13	.96	4.8	4.8	4.8	4.7
April	29.922	30.290	29.470	54.9	66.0	61.7	71.0	49.2	60.1	88	33	47	48	47	76	55	62	.350	.363	.348	3.65	1.71	6.0	5.3	5.6	5.6
May	29.849	30.250	29.390	59.3	67.7	63.6	72.0	54.1	63.0	89	45	52	54	55	78	65	76	.405	.433	.450	3.89	1.09	6.8	7.0	7.2	6.6
June	29.842	30.170	29.540	71.1	81.6	76.3	86.3	63.3	74.8	98	52	62	62	62	73	52	64	.568	.508	.585	1.49	.89	5.8	5.2	5.8	5.5
July	29.868	30.122	29.600	75.4	86.4	78.8	89.9	70.2	80.0	97	62	70	69	69	83	58	74	.733	.710	.716	2.36	1.02	5.8	5.7	6.0	5.6
August	29.943	30.116	29.620	71.8	82.9	76.4	88.2	65.0	78.6	101	54	63	62	63	75	50	65	.589	.569	.592	.61	.31	4.1	4.8	4.2	4.7
September	29.899	30.122	29.600	71.4	83.3	76.2	87.2	66.4	76.8	98	57	65	63	64	81	52	67	.625	.593	.607	.95	.36	5.1	4.9	4.3	5.1
October	29.894	30.430	29.400	52.0	67.1	60.7	72.0	47.0	59.5	83	33	44	45	46	77	49	60	.305	.325	.323	1.20	.47	2.6	3.3	2.8	3.4
November	29.924	30.280	29.400	45.6	56.2	51.7	61.8	41.5	51.6	79	26	41	44	45	84	66	77	.268	.309	.307	2.97	1.64	4.8	6.6	4.1	5.4
December	29.928	30.570	29.280	35.8	45.1	41.4	49.9	32.0	41.0	67	17	30	32	32	79	62	68	.174	.196	.192	3.02	.94	6.4	6.2	4.8	6.3
Year	29.923	30.780	29.280	54.8	65.8	61.0	70.6	49.9	60.2	101	15	49	50	50	80	60	69	.393	.409	.411	30.59	2.66	5.5	5.4	4.9	5.4

ROCHESTER, N. Y.

[ϕ=43° 08′ 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	29.548	30.365	28.922	26.2	30.3	29.9	36.0	22.4	29.2	50	1	19	19	21	73	62	68	0.110	0.114	0.124	0.52	0.16	8.6	7.0	7.0	7.2
February	29.476	29.950	28.900	28.3	31.9	30.5	36.1	24.2	30.2	61	10	22	22	22	75	67	70	.120	.124	.122	2.95	1.04	7.9	8.0	8.0	7.8
March	29.520	30.120	28.990	39.8	44.8	42.1	52.0	32.9	42.8	80	12	30	32	33	68	63	71	.184	.198	.208	3.61	.76	7.6	7.8	6.5	7.8
April	29.462	29.763	28.968	49.2	57.3	52.2	62.1	42.9	52.5	80	24	39	40	41	69	56	68	.253	.262	.277	2.58	.73	5.6	6.4	5.6	6.0
May	29.463	29.756	29.190	57.0	63.3	60.0	68.0	50.3	59.2	88	36	44	46	46	64	55	62	.313	.329	.328	1.50	.47	4.4	5.2	4.9	5.0
June	29.432	29.820	29.140	66.3	74.0	70.7	78.4	58.3	68.4	90	43	53	53	53	64	49	55	.425	.425	.423	.83	.47	4.0	4.9	3.7	4.5
July	29.429	29.638	29.150	75.4	83.2	78.9	86.6	69.0	77.8	97	58	64	62	64	68	52	61	.604	.576	.595	3.95	1.22	3.6	4.7	4.4	4.4
August	29.504	29.740	29.040	66.3	74.2	69.8	77.9	59.8	68.8	88	48	55	54	56	67	50	62	.435	.422	.453	2.60	.91	4.3	5.7	5.3	5.3
September	29.436	29.760	28.900	65.4	73.1	68.6	77.8	59.2	68.5	89	47	56	54	55	71	54	62	.455	.444	.445	1.69	.47	4.5	5.3	2.8	5.0
October	29.394	29.859	28.920	48.1	56.7	52.6	60.4	44.4	52.4	76	34	39	41	42	73	58	68	.247	.263	.274	2.02	.54	5.8	6.3	5.6	6.1
November	29.480	29.970	28.980	37.0	40.0	38.6	43.2	32.7	38.0	73	24	31	32	32	80	75	76	.184	.192	.186	4.63	1.36	8.3	9.3	8.8	9.2
December	29.419	30.010	28.720	27.5	30.0	29.2	35.7	22.6	29.2	57	5	21	21	20	74	69	67	.115	.120	.117	1.25	.38	9.1	8.9	7.4	8.8
Year	29.464	30.365	28.720	48.9	54.9	51.9	59.6	43.2	51.4	97	1	39	40	40	70	59	66	.287	.290	.296	28.13	1.36	6.1	6.7	5.9	6.4

Annual meteorological summary for the year ending December 31, 1921—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	8.5	NW.	43	N.	1	3	0	3	19	7	2	5	20	3	10	6	15	17	13	0	0	0	1	0	0	1	0	0
February	5.3	N.	30	SE.	0	15	0	2	11	8	2	4	14	0	17	6	5	6	4	0	0	0	0	0	0	1	0	0
March	5.7	SE.	33	NW.	0	5	3	1	24	9	3	3	11	3	16	10	5	9	7	0	0	0	0	0	0	0	0	0
April	7.0	NW.	30	NW.	0	12	0	0	11	6	2	6	23	0	22	7	1	4	3	0	0	1	0	0	1	0	0	0
May	5.5	SE.	27	SE.	0	9	1	4	20	11	4	6	6	1	23	5	3	8	6	0	0	0	0	0	3	0	0	2
June	6.1	NW.	23	NW.	0	6	1	1	20	4	3	4	20	1	26	5	0	1	1	0	0	0	0	0	14	0	0	0
July	5.3	SE.	40	NW.	1	2	1	3	30	5	0	6	12	3	31	0	0	0	0	0	0	0	0	0	30	0	0	0
August	4.1	SE.	17	SE.	0	1	0	4	34	6	2	9	4	2	29	2	0	0	0	0	0	0	0	0	24	0	0	0
September	5.9	SE.	26	SE.	0	11	2	1	20	6	1	2	17	0	25	3	2	0	0	0	0	0	0	0	13	0	0	0
October	4.3	SE.	24	SE.	0	6	1	1	18	10	2	10	14	0	21	5	5	3	3	0	0	0	0	0	5	0	0	0
November	4.0	NW.	24	NW.	0	10	1	1	9	9	1	5	24	0	15	6	9	7	5	0	0	0	0	0	0	5	0	0
December	5.4	NW.	36	SE.	0	4	1	0	14	2	2	5	33	1	10	7	14	12	12		0	1	0	0	0	3	1	0
Year	5.6	SE.	43	N.	2	84	11	21	230	83	24	65	198	14	245	61	59	67	54	0	0	2	1	0	90	10	1	2

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	7.6	* W.	48	SW.	3	8	5	2	8	5	3	20	8	3	12	7	12	9	5	8	6	0	0	1	0	27	0	0
February	6.4	W.	52	SW.	1	3	5	5	3	8	0	25	6	1	9	13	6	4	2	5	4	0	0	0	0	21	0	0
March	8.0	W.	48	W.	2	3	1	3	4	6	4	34	2	5	14	11	6	4	2	3	1	0	0	0	0	16	0	0
April	9.3	W.	42	W.	2	7	0	2	4	0	2	32	12	1	12	13	5	1	0	6	1	0	0	0	0	12	0	0
May	8.1	W.	38	SW.	0	7	3	1	2	7	6	28	6	2	14	8	9	11	7	4	3	0	0	0	0	3	2	1
June	7.2	W.	37	W.	0	2	2	4	6	1	6	36	1	2	18	7	5	3	2	1	0	0	0	0	2	0	2	0
July	7.1	W.	35	W.	0	0	2	0	4	1	4	46	4	1	27	4	0	3	2	0	0	1	0	0	17	0	6	0
August	7.2	W.	32	W.	0	1	0	0	2	5	6	44	3	1	27	4	0	2	1	0	0	1	0	0	7	0	5	0
September	6.6	W.	40	W.	1	1	10	3	3	3	4	32	3	1	24	5	1	1	1	0	0	0	0	0	0	0	0	0
October	5.3	W.	41	W.	1	4	6	3	3	4	5	36	0	1	21	7	3	3	1	1	1	0	0	0	0	8	1	0
November	5.7	W.	37	W.	0	6	2	2	1	7	8	33	1	0	15	12	3	4	2	1	1	0	0	0	0	24	0	0
December	4.8	W.	52	W.	1	7	6	4	7	8	2	23	4	1	11	9	11	10	7	10	8	0	1	0	0	26	0	0
Year	6.9	W.	52	SW.	11	49	42	29	47	55	50	389	50	19	204	100	61	55	32	39	25	2	1	1	26	137	16	1

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	9.2	* S.	34	N.	0	10	13	3	1	15	12	1	7	0	8	10	13	7	4	2	1	0	0	4	0	22	0	0
February	8.6	NE.	32	NE.	0	9	13	3	3	6	11	3	8	0	9	6	13	8	6	4	3	0	2	1	0	15	0	0
March	10.7	S.	35	S.	0	5	13	3	10	24	2	0	5	0	13	9	9	10	8	0	0	0	0	0	0	2	4	0
April	8.8	S.	33	NW.	0	1	14	1	9	17	8	0	10	0	11	4	15	11	10	1	0	0	0	0	0	0	2	0
May	7.4	NW.	38	NW.	0	8	10	8	5	8	9	1	12	1	7	8	16	17	14	0	0	0	0	0	0	0	6	1
June	6.1	SW.	40	W.	1	5	9	5	9	9	15	3	5	0	8	13	9	8	5	0	0	0	0	0	9	0	8	0
July	6.8	S.	26	N.	0	8	14	1	7	17	13	1	1	0	10	9	12	8	7	0	0	0	0	0	16	0	13	0
August	6.7	NE.	37	W.	0	2	20	7	10	10	9	2	2	0	13	13	5	7	4	0	0	0	0	0	12	0	5	0
September	6.2	NE.	36	NW.	0	2	13	10	8	10	11	1	5	0	10	11	9	10	5	0	0	0	0	0	10	0	6	0
October	8.1	SW.	30	SW.	0	3	10	4	9	8	14	1	11	2	17	10	4	4	4	0	0	0	3	0	0	0	0	0
November	7.5	NE.	28	NW.	0	5	17	2	6	17	7	1	5	0	10	10	10	6	6	0	0	0	3	0	0	1	1	0
December	8.3	NE.	34	S.	0	3	17	3	6	17	9	3	2	2	6	12	13	11	9	1	0	0	0	1	0	16	0	0
Year	7.9	NE.	40	W.	1	61	163	50	83	158	120	17	73	5	122	115	128	110	82	8	4	0	8	6	47	56	45	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	10.7	SW.	39	SW.	0	3	3	0	7	5	21	13	10	0	4	9	18	13	4	16	8	0	0	9	0	25	0	0
February	9.1	W.	34	W.	0	1	7	4	8	4	13	13	6	0	3	6	19	13	9	19	12	0	0	9	0	25	0	0
March	9.5	SW.	37	W.	0	5	7	2	6	10	15	8	9	0	4	5	22	19	15	6	3	0	0	3	0	15	4	0
April	8.5	SW.	38	W.	0	4	12	0	5	5	12	13	9	0	10	6	14	13	9	3	1	0	0	0	0	6	5	0
May	8.1	W.	27	NE.	0	5	10	3	6	6	10	10	12	0	12	8	11	7	6	0	0	0	0	0	0	0	2	2
June	7.4	NW.	29	W.	0	4	13	3	1	2	11	13	11	2	12	11	7	5	5	0	0	0	1	0	1	0	1	0
July	6.1	SW.	28	NW.	0	8	14	5	3	1	19	7	5	0	15	10	6	10	9	0	0	0	0	0	10	0	13	0
August	7.1	SW.	25	W.	0	1	6	4	5	6	20	13	5	2	11	10	10	9	5	0	0	0	0	0	0	0	2	0
September	7.6	SW.	42	W.	1	3	2	4	3	9	21	10	7	1	13	5	12	8	6	0	0	0	0	0	0	0	3	0
October	8.5	SW.	40	W.	1	1	2	5	6	6	21	11	10	0	9	7	15	13	11	0	0	0	0	0	0	0	0	0
November	8.9	W.	38	W.	0	2	7	6	7	7	12	14	5	0	1	3	26	21	18	12	10	0	1	0	0	16	0	0
December	10.1	W.	53	SW.	2	1	3	0	4	5	17	21	11	0	1	6	24	15	7	23	10	0	0	11	0	26	0	0
Year	8.5	SW.	53	SW.	4	38	86	36	61	66	192	146	100	5	95	86	184	146	104	79	44	0	2	32	11	113	30	2

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1921—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	29.509	30.040	28.950	38.5	44.3	45.2	48.7	35.4	42.0	61	25	35	37	38	90	77	77	0.212	0.222	0.230	4.12	0.93	8.0	6.3	7.8	7.2
February	29.597	29.960	28.975	41.5	49.3	52.0	53.7	39.1	46.4	67	30	39	42	42	92	77	71	.246	.275	.275	4.31	1.19	7.5	7.1	6.5	6.6
March	29.535	29.810	28.967	42.0	52.0	54.9	57.2	39.7	48.4	75	31	39	41	41	90	67	61	.244	.259	.258	1.71	.51	6.5	6.6	5.5	6.1
April	29.582	29.950	29.156	42.4	56.9	57.9	61.6	40.1	50.8	74	29	40	41	39	89	56	53	.247	.260	.246	1.38	.32	7.4	5.5	6.3	6.1
May	29.464	29.730	29.108	45.8	60.9	55.3	67.5	44.3	55.9	86	37	42	44	43	86	56	49	.267	.293	.281	1.75	.55	6.5	4.8	4.6	4.7
June	29.459	29.630	29.211	52.9	71.5	74.2	77.5	52.0	64.8	90	44	50	52	50	90	51	45	.362	.387	.370	.76	.21	6.2	5.2	5.6	5.1
July	29.539	29.810	29.356	51.5	74.2	82.6	83.3	50.5	66.9	93	41	47	50	47	86	43	30	.328	.360	.325	.00	.00	1.9	1.5	.4	1.2
August	29.478	29.660	29.210	53.7	73.9	80.8	82.6	52.7	67.6	95	43	50	54	52	87	50	38	.359	.415	.395	.04	.04	2.4	2.2	1.4	2.0
September	29.492	29.720	29.190	47.9	68.3	72.5	74.9	46.1	60.5	83	36	44	46	41	87	45	35	.296	.313	.270	1.45	.89	2.9	2.2	2.2	2.3
October	29.488	29.860	29.164	48.1	62.1	66.1	68.7	45.5	57.1	85	37	45	48	47	89	61	54	.303	.333	.329	2.13	1.07	5.2	4.6	3.3	4.3
November	29.552	29.810	29.110	46.8	52.4	52.0	55.8	43.7	49.8	66	33	44	45	45	91	77	77	.292	.304	.299	6.46	2.09	7.5	6.9	6.1	7.2
December	29.550	30.180	29.020	36.0	40.6	41.7	43.8	34.2	39.0	65	20	35	36	37	95	84	84	.206	.216	.226	1.52	.81	6.5	7.3	6.9	7.4
Year	29.520	30.180	28.950	45.6	58.9	62.1	64.6	43.6	54.1	95	20	43	45	44	89	62	56	.280	.303	.292	25.63	2.09	5.7	5.0	4.7	5.0

ROSWELL, N. MEX.

[ϕ=33° 24′ N.; λ=104° 27′ W.]

January	26.438	26.770	26.190	32.8	49.2	50.8	57.4	29.0	43.2	74	11	22	24	24	63	40	37	0.125	0.138	0.139	0.17	0.12	4.1	4.5	4.4	4.6
February	26.388	26.750	25.953	32.2	53.4	56.5	61.2	28.6	44.9	80	16	18	22	16	59	33	25	.105	.121	.098	.47	.43	3.0	3.4	3.2	3.4
March	26.334	26.910	25.820	41.9	62.2	65.9	70.0	38.8	54.4	85	25	29	26	23	64	30	24	.165	.153	.135	.74	.71	3.3	3.1	3.4	3.7
April	26.274	26.900	25.742	44.4	66.6	69.7	73.1	42.2	57.6	87	32	23	19	16	42	17	14	.126	.104	.094	.01	.01	2.2	2.1	2.7	2.9
May	26.291	26.560	26.050	56.0	75.4	78.8	82.3	54.4	68.4	94	43	45	38	35	69	31	27	.316	.256	.239	1.49	.31	4.6	3.2	4.4	4.2
June	26.309	26.510	26.096	61.0	79.9	79.9	85.0	58.9	72.0	94	49	54	52	53	80	42	45	.433	.398	.412	5.58	2.89	3.4	2.9	6.1	4.8
July	26.390	26.610	25.950	66.8	82.1	82.8	87.4	65.2	76.3	103	59	60	56	56	79	45	43	.513	.461	.451	2.18	.91	5.2	4.1	5.6	4.8
August	26.402	26.550	26.236	65.2	86.2	85.9	91.0	64.2	77.6	98	59	57	54	53	75	35	35	.465	.423	.412	.77	.27	3.2	2.4	4.6	3.5
September	26.340	26.550	26.156	61.8	82.6	82.7	88.0	60.5	74.2	97	45	52	50	49	73	34	35	.405	.369	.366	.26	.18	4.1	3.3	4.1	4.2
October	26.394	26.680	26.020	47.9	73.5	72.1	79.8	45.3	62.6	90	32	33	32	33	58	23	26	.198	.188	.197	T.	T.	1.4	1.6	1.5	1.5
November	26.403	26.720	26.010	37.0	62.8	61.0	70.2	33.0	51.6	80	13	19	18	16	48	20	20	.105	.105	.100	T.	T.	1.7	2.2	2.1	2.3
December	26.436	26.810	25.930	34.7	53.5	54.8	62.0	30.2	46.1	75	9	21	21	19	57	32	26	.116	.119	.111	T.	T.	2.9	3.9	3.3	3.5
Year	26.367	26.910	25.742	48.5	69.0	70.1	75.6	45.9	60.7	103	9	36	34	33	64	32	30	.256	.236	.230	11.67	2.89	3.3	3.1	3.8	3.6

ROYAL CENTER, IND.

[ϕ=40° 53′ N.; λ=86° 29′ W.]

January	29.332	30.040	28.840	28.6	35.4	....	38.4	24.9	31.6	53	8	24	27	....	83	71	....	0.140	0.155	.....	2.45	1.02	6.9	6.7	....	6.7
February	29.239	29.790	28.848	29.8	35.9	....	39.3	27.0	33.2	67	13	26	28	....	84	74	....	.146	.160	.....	.79	.42	8.0	8.8	....	8.5
March	29.247	29.842	28.662	40.9	50.6	....	57.6	34.6	46.1	77	17	36	39	....	81	67	....	.230	.267	.....	4.51	1.19	7.9	8.3	....	7.6
April	29.195	26.670	28.630	49.0	58.5	....	62.5	43.5	53.0	79	26	43	44	....	81	61	....	.288	.303	.....	4.68	1.42	5.7	6.6	....	6.0
May	29.234	29.541	28.840	58.5	70.5	....	73.7	51.2	62.4	92	32	51	51	....	77	52	....	.405	.398	.....	1.91	1.01	4.6	5.5	....	5.1
June	29.200	29.554	28.940	70.1	81.8	....	85.0	62.7	73.8	95	43	61	62	....	75	54	....	.570	.581	.....	2.33	1.03	5.3	5.6	....	5.6
July	29.223	29.417	28.990	74.9	88.1	....	91.2	66.0	78.6	99	52	65	60	....	71	40	....	.617	.532	.....	1.07	.39	2.4	5.0	....	4.0
August	29.266	29.511	28.910	66.1	78.0	....	80.4	60.4	70.4	88	50	60	60	....	82	55	....	.536	.530	.....	6.31	1.89	5.6	5.8	....	5.6
September	29.221	29.486	28.870	63.2	75.1	....	77.8	57.9	67.8	87	40	60	60	....	88	60	....	.524	.536	.....	2.89	.65	5.5	6.5	....	5.6
October	29.174	29.650	28.760	47.1	59.4	....	63.3	43.3	53.3	79	31	42	43	....	82	59	....	.272	.289	.....	3.46	1.32	5.1	4.7	....	5.2
November	29.228	29.677	28.910	36.8	44.1	....	47.5	32.6	40.0	64	23	34	35	....	88	72	....	.200	.216	.....	4.57	2.43	8.0	8.0	....	8.0
December	29.225	29.710	28.490	30.9	35.4	....	38.5	25.9	32.2	60	14	26	27	....	79	72	....	.144	.153	.....	2.15	1.13	8.6	7.6	....	8.2
Year	29.232	30.040	28.490	49.7	59.4	....	62.9	44.2	53.5	99	8	44	45	....	81	61	....	.339	.343	.....	37.12	2.43	6.1	6.6	....	6.3

SACRAMENTO, CALIF.

[ϕ=38° 35′ N.; λ=121° 30′ W.]

January	30.055	30.480	29.500	42.4	48.7	50.8	52.3	40.1	46.2	57	30	41	46	46	96	90	86	0.265	0.311	0.318	4.61	2.18	4.7	5.4	5.5	5.3
February	30.078	30.360	29.620	45.3	53.7	58.3	59.2	42.6	50.9	70	33	44	50	52	96	88	80	.292	.362	.396	.54	.20	2.2	4.6	4.2	4.2
March	29.987	30.330	29.610	48.2	58.8	61.9	63.4	46.7	55.0	76	40	45	50	50	91	75	66	.306	.368	.365	1.45	.62	3.0	5.9	4.6	4.8
April	29.969	30.180	29.743	47.9	63.8	67.9	68.9	46.4	57.6	88	36	42	48	49	90	59	54	.274	.343	.355	.39	.39	1.6	3.4	3.1	2.8
May	29.854	30.110	29.531	49.7	66.5	70.6	72.7	48.7	60.7	91	41	45	48	48	84	53	47	.300	.340	.341	.75	.62	2.5	3.7	3.2	3.2
June	29.811	30.040	29.611	58.5	79.3	85.0	86.8	57.0	71.9	105	47	53	60	57	82	53	41	.401	.520	.470	.05	.05	1.8	1.4	1.3	1.4
July	29.793	29.900	29.646	58.8	82.2	91.7	93.0	57.6	75.3	106	50	50	54	51	76	40	27	.368	.430	.391	.00	.00	.4	.2	.1	.2
August	29.836	30.000	29.699	56.9	78.2	87.4	88.7	55.5	72.1	101	48	49	56	56	77	46	35	.353	.449	.445	.00	.00	.2	.2	.4	.2
September	29.815	30.050	29.550	57.8	75.8	83.2	85.2	56.0	70.6	98	48	50	51	49	75	43	33	.364	.367	.346	T.	T.	.9	1.2	1.2	1.2
October	29.919	30.350	29.588	53.5	68.8	75.0	76.8	51.3	64.0	88	40	46	52	53	77	56	48	.315	.387	.405	.80	.69	.8	2.4	2.1	1.8
November	30.037	30.330	29.752	46.9	58.8	63.5	65.3	44.3	54.8	80	31	41	45	45	81	62	56	.264	.303	.304	1.09	.48	2.9	4.2	3.6	3.3
December	30.002	30.370	29.370	44.2	50.9	54.8	56.0	41.9	49.0	63	32	40	45	45	84	82	72	.251	.303	.239	3.81	.93	4.4	5.0	4.5	4.8
Year	29.930	30.480	29.370	50.8	65.5	70.8	72.4	49.0	60.7	106	30	46	50	50	83	62	54	.313	.374	.365	13.49	2.18	2.0	3.1	2.8	2.8

Annual meteorological summary for the year ending December 31, 1921—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	3.4	S.	28	W.	0	2	5	7	11	15	7	3	11	1	0	18	13	20	18	0	0	0	4	0	0	8	0	0
February	2.6	S.	24	SW.	0	3	6	0	6	13	6	9	12	1	1	16	11	18	13	3	3	0	5	0	0	3	0	0
March	3.0	NW.	17	W.	0	16	7	6	6	6	8	5	8	0	5	16	10	15	12	0	0	0	3	0	0	2	0	0
April	3.4	NW.	19	SW.	0	10	3	3	5	12	6	9	11	1	4	20	6	16	11	1	1	1	0	0	0	4	0	0
May	3.6	N.	20	N.	0	26	6	4	3	8	0	5	10	0	11	11	9	8	7	0	0	0	0	0	0	0	0	2
June	3.3	N.	18	W.	0	19	10	4	2	1	4	9	11	0	6	19	5	10	5	0	0	0	0	0	1	0	1	0
July	4.2	N.	14	N.	0	31	9	1	2	1	0	0	9	9	26	5	0	0	0	0	0	0	0	0	5	0	0	0
August	3.4	N.	16	SW.	0	21	4	2	0	0	4	2	17	12	22	8	1	1	1	0	0	0	0	0	2	0	1	0
September	2.8	N.	17	N.	0	24	3	4	3	1	2	1	12	10	23	5	2	7	6	0	0	0	0	0	0	0	0	0
October	2.6	NW.	21	SW.	0	13	3	6	6	11	5	4	11	3	12	11	8	9	9	0	0	0	4	0	0	0	0	0
November	3.2	S.	24	SW.	0	7	5	5	8	16	9	2	7	1	0	16	14	17	14	0	0	0	5	0	0	0	0	0
December	2.2	NW.	40	SW.	1	12	10	4	5	8	2	3	18	0	2	12	17	14	8	4	4	0	9	3	0	11	0	0
Year	3.1	N.	40	SW.	1	184	71	46	57	92	53	52	137	38	112	157	96	135	104	8	8	1	30	3	8	28	2	2

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	7.8	S.	42	NW.	2	12	6	1	3	18	5	3	14	0	13	10	8	4	1	3	3	0	1	1	0	23	0	0
February	8.3	S.	42	W.	2	7	9	9	2	12	1	6	10	0	15	9	4	3	3	2	0	0	0	0	0	21	1	0
March	8.8	S.	50	NE.	1	6	6	5	3	16	7	8	8	3	14	15	2	2	1	0	0	1	0	0	0	5	1	0
April	11.2	S.	52	SW.	4	9	2	3	7	13	6	11	8	1	17	11	2	1	0	0	0	0	0	0	0	1	0	0
May	9.9	S.	33	S.	0	5	4	5	15	14	6	6	5	2	13	13	5	10	8	0	0	1	0	0	4	0	10	0
June	7.1	S.	48	SE.	1	7	5	4	14	11	9	3	7	0	9	16	5	9	7	0	0	1	1	0	8	0	15	0
July	6.2	S.	28	SW.	0	7	1	3	17	15	7	4	6	2	15	8	8	10	6	0	0	0	0	0	11	0	10	0
August	5.9	S.	30	SE.	0	9	7	3	9	11	6	6	3	8	13	17	1	5	5	0	0	0	0	0	21	0	13	0
September	6.3	S.	42	NW.	1	7	2	3	13	14	7	5	7	2	13	13	4	4	1	0	0	0	0	0	14	0	7	0
October	7.1	S.	39	W.	0	14	3	7	10	11	4	6	5	2	26	3	2	0	0	0	0	0	0	0	0	1	0	0
November	6.4	S.	33	NW.	0	13	1	4	6	12	7	5	12	0	20	9	1	0	0	0	0	0	0	0	0	12	0	0
December	7.7	S.	44	NW.	2	15	10	2	9	11	3	3	8	1	17	9	5	0	0	2	0	0	0	0	0	17	0	0
Year	7.7	S.	52	SW.	13	111	56	49	108	158	68	66	93	21	185	133	47	48	32	7	3	3	2	1	58	80	58	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	11.6	SW.	39	W.	0	3	1	3	3	6	7	6	1	1	7	7	17	11	8	7	4	0	0	9	0	24	0	0
February	10.8	W.	38	W.	0	2	3	3	2	5	6	5	2	0	1	5	22	8	3	6	2	0	1	3	0	21	0	0
March	13.3	S.	43	W.	1	2	3	2	8	8	3	0	5	0	4	5	22	16	14	2	0	1	0	0	0	13	6	0
April	12.4	S.	37	SW.	0	3	1	1	4	11	3	4	3	0	10	5	15	14	11	3	3	0	0	0	0	6	4	0
May	9.2	N.	32	W.	0	10	2	1	6	4	5	3	0	0	12	10	9	11	9	0	0	0	0	0	2	1	7	3
June	8.3	S.	33	E.	0	1	4	4	8	3	5	4	1	0	7	12	11	9	7	0	0	0	0	0	10	0	11	0
July	7.3	N.	26	SW.	0	6	4	1	4	4	8	3	1	0	11	18	2	6	6	0	0	1	0	0	20	0	9	0
August	7.6	S.	37	W.	0	3	3	2	9	6	5	3	0	0	8	14	9	13	12	0	0	0	0	0	0	0	9	0
September	8.3	S.	34	SW.	0	1	2	3	2	6	5	8	2	1	7	15	8	13	11	0	0	0	2	0	0	0	9	0
October	10.4	SW.	39	W.	0	3	0	4	2	7	6	7	2	0	9	11	11	15	11	0	0	0	0	0	0	1	5	0
November	10.2	SW.	34	N.	0	3	5	2	4	3	6	3	3	1	4	5	21	13	10	4	4	0	1	0	0	15	3	0
December	11.6	NW.	40	W.	1	3	3	1	5	2	4	7	6	0	3	5	23	14	7	10	6	0	0	8	0	27	1	0
Year	10.1	S.	43	W.	2	40	31	27	57	65	63	53	26	3	83	112	170	143	109	32	19	2	4	20	32	108	64	3

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	9.3	SE.	44	SE.	1	10	1	3	30	10	2	0	5	1	12	7	12	12	10	0	0	0	4	0	0	1	0	0
February	8.9	SE.	30	SW.	0	10	2	2	15	9	3	2	11	2	14	9	5	7	3	0	0	0	6	0	0	0	0	0
March	7.1	S.	34	NW.	0	2	2	4	20	18	4	3	8	1	9	15	7	8	6	0	0	1	1	0	0	0	2	0
April	9.3	NW.	35	NW.	0	4	1	4	9	12	9	0	20	1	19	10	1	2	2	0	0	0	0	0	0	0	0	0
May	8.7	S.	34	SW.	0	2	0	2	15	28	4	5	5	1	18	9	4	3	2	0	0	0	0	0	1	0	0	1
June	8.7	S.	24	S.	0	1	1	0	19	19	6	0	14	0	27	3	0	1	1	0	0	0	0	0	10	0	0	0
July	8.9	S.	38	NW.	0	0	0	0	14	38	2	0	7	1	31	0	0	0	0	0	0	0	0	0	21	0	0	0
August	8.2	S.	21	S.	0	0	0	0	23	34	3	1	1	0	31	0	0	0	0	0	0	0	0	0	11	0	0	0
September	7.0	S.	25	S.	0	4	2	1	18	21	3	4	7	0	25	4	1	0	0	0	0	0	0	0	11	0	0	0
October	5.7	S.	27	S.	0	4	2	4	17	16	4	3	10	2	22	8	1	3	2	0	0	1	1	0	0	0	1	0
November	5.1	SE.	18	SE.	0	16	4	4	14	6	0	2	9	5	19	3	8	4	4	0	0	0	4	0	0	1	0	0
December	7.9	SE.	50	S.	2	9	1	8	17	13	1	2	7	4	12	9	10	12	10	0	0	0	9	0	0	2	0	0
Year	7.7	S.	50	S.	3	62	16	32	211	224	41	22	104	18	239	77	49	52	40	0	0	2	25	0	54	4	3	1

Annual meteorological summary for the year ending December 31, 1921—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	29.414	30.220	28.710	26.7	31.5	29.1	34.6	22.8	28.7	53	8	22	24	23	80	72	76	0.124	0.138	0.130	0.38	0.15	7.2	7.0	5.9	7.0
February	29.337	29.850	28.830	25.5	31.1	29.3	34.1	22.4	28.2	60	12	20	22	23	79	68	76	.112	.121	.126	1.22	.81	7.7	8.1	7.7	7.9
March	29.340	30.059	28.630	35.2	42.7	40.5	48.8	29.6	39.2	75	14	31	35	34	83	75	77	.187	.224	.212	2.33	.50	6.9	7.1	6.8	7.3
April	29.290	29.700	28.650	46.9	56.8	53.7	61.3	42.1	51.7	80	23	40	43	43	76	62	68	.259	.292	.287	3.67	.94	6.9	6.2	5.5	6.2
May	29.333	29.622	29.020	55.6	64.4	62.6	69.0	50.1	59.6	89	33	47	48	49	74	58	64	.345	.361	.378	2.17	1.23	5.5	5.0	5.6	5.5
June	29.307	29.743	28.990	66.3	76.5	73.4	80.5	59.3	69.9	96	40	57	58	60	73	53	64	.494	.495	.540	3.64	2.20	5.5	4.9	6.1	5.5
July	29.306	29.503	28.960	72.4	85.1	80.3	88.5	66.5	77.5	98	55	64	64	65	76	51	61	.615	.611	.629	1.10	.64	3.5	4.3	4.8	4.2
August	29.355	29.661	28.930	63.5	74.8	71.5	79.0	58.6	68.8	88	48	58	58	60	83	59	69	.495	.505	.536	3.63	1.77	5.5	6.3	4.3	5.4
September	29.279	29.640	28.700	61.1	73.5	68.2	76.7	56.8	66.8	90	42	56	58	58	84	59	72	.469	.496	.510	2.19	.63	4.8	4.7	4.3	5.0
October	29.253	29.654	28.770	45.2	55.9	50.8	58.9	41.8	50.4	71	31	42	44	44	88	65	78	.269	.290	.295	3.06	1.31	5.6	6.3	5.7	5.9
November	29.349	29.808	28.940	33.4	37.9	36.8	40.6	30.4	35.5	60	20	31	33	33	89	83	85	.173	.192	.193	2.36	1.22	8.5	8.9	8.5	8.8
December	29.288	29.790	28.440	26.7	30.7	29.0	34.0	22.5	28.2	54	4	23	25	26	85	78	86	.129	.142	.142	2.32	.84	8.2	8.0	8.0	8.2
Year	29.321	30.220	28.440	46.5	55.1	52.1	58.8	41.9	50.4	98	4	41	43	43	81	65	73	.306	.322	.332	28.07	2.20	6.3	6.4	6.1	6.4

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	29.068	29.650	28.580	31.3	37.7	35.9	42.0	26.9	34.4	61	8	26	25	27	79	62	71	0.146	0.147	0.158	0.72	0.25	4.9	5.6	5.1	6.1
February	28.982	29.520	28.420	32.1	42.4	42.6	47.8	29.0	38.4	73	19	26	28	27	78	57	55	.144	.156	.153	.39	.20	3.8	4.8	3.5	4.7
March	28.942	29.650	28.440	42.5	52.7	53.6	59.3	38.4	48.8	84	16	35	36	36	74	55	53	.223	.231	.231	1.27	.72	5.5	5.2	3.7	5.1
April	28.883	29.590	28.270	47.8	60.5	60.2	66.1	44.9	55.5	86	24	39	40	42	73	50	53	.257	.270	.280	3.21	1.35	5.0	4.7	4.6	4.8
May	28.950	29.280	28.591	59.3	72.7	71.5	76.7	56.5	66.6	93	35	52	52	53	79	51	55	.418	.422	.435	4.71	1.49	4.7	3.4	4.5	3.9
June	28.892	29.230	28.650	70.1	82.6	81.1	86.7	68.0	77.4	95	54	65	64	65	82	56	60	.624	.608	.618	4.37	1.28	4.9	3.9	3.8	4.0
July	28.959	29.130	28.580	73.0	87.4	85.8	91.1	70.0	80.6	99	61	67	65	67	82	50	54	.671	.635	.666	2.66	.69	2.6	2.4	2.1	2.9
August	28.955	29.200	28.680	69.4	82.4	80.4	87.0	67.2	77.1	98	57	64	65	66	84	56	64	.610	.621	.663	4.84	2.33	4.9	3.3	3.0	3.6
September	28.898	29.190	28.528	64.2	77.2	74.2	82.3	61.9	72.1	93	45	59	60	62	83	58	67	.518	.544	.579	7.31	1.98	4.3	4.4	3.2	3.9
October	28.897	29.290	28.440	49.4	65.8	62.0	70.3	47.8	59.0	84	34	41	41	43	74	43	52	.262	.273	.290	2.89	.89	2.3	3.1	2.5	2.9
November	28.996	29.320	28.580	35.1	46.5	43.5	51.5	32.0	41.8	72	21	30	31	31	82	56	62	.170	.176	.176	.03	.03	5.0	3.7	3.8	4.5
December	29.050	29.480	28.390	28.6	38.3	36.3	43.3	24.9	34.1	68	4	24	24	25	82	58	64	.135	.140	.135	.38	.18	5.2	3.8	3.3	4.5
Year	28.956	29.650	28.270	50.2	62.2	60.6	67.0	47.3	57.2	99	4	44	44	45	79	54	59	.348	.352	.365	32.78	2.33	4.4	4.0	3.6	4.2

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	29.544	30.160	28.981	36.1	41.7	40.7	46.1	32.3	39.2	67	12	28	28	28	72	61	62	0.168	0.170	0.166	1.10	0.31	5.5	7.2	5.3	6.0
February	29.444	29.951	28.990	37.0	43.8	43.8	49.9	34.3	42.1	73	23	30	31	30	76	61	61	.172	.178	.177	1.08	.30	6.5	5.2	4.0	5.1
March	29.428	29.990	29.020	47.4	58.0	57.0	64.5	43.5	54.0	80	22	40	40	40	75	53	56	.267	.268	.273	6.14	1.44	6.5	5.6	4.8	5.0
April	29.376	29.890	28.840	52.1	63.2	60.4	67.6	48.6	58.1	82	30	42	42	43	69	49	54	.286	.293	.294	7.01	2.76	4.7	5.2	4.6	4.6
May	29.412	29.720	29.010	63.3	73.3	71.5	76.9	60.1	68.5	92	40	51	51	53	66	48	54	.395	.392	.419	4.29	2.22	3.7	3.8	4.1	3.7
June	29.355	29.670	29.160	73.6	83.4	80.3	86.9	69.8	78.4	94	53	65	64	64	75	54	61	.636	.618	.627	2.31	.61	3.8	4.2	4.7	4.1
July	29.395	29.590	29.140	77.7	88.2	87.2	92.3	74.1	83.2	98	65	65	64	63	66	46	46	.630	.605	.587	2.05	.93	1.9	3.5	2.8	2.6
August	29.419	29.655	29.180	71.3	81.7	81.5	86.4	68.6	77.5	97	57	63	64	64	76	56	57	.588	.606	.613	2.75	.81	4.7	5.1	3.5	4.3
September	29.380	29.590	29.840	68.5	78.6	75.0	82.6	66.3	74.4	92	50	64	64	65	85	62	69	.603	.615	.630	5.60	.77	5.6	5.7	3.5	5.4
October	29.376	29.840	29.020	51.2	64.5	61.9	69.0	50.1	59.6	83	38	41	42	43	68	47	52	.261	.276	.290	1.45	.73	2.2	2.9	2.7	2.6
November	29.439	29.850	29.080	42.5	50.5	49.3	55.5	39.1	47.3	73	28	35	36	36	74	60	63	.209	.223	.224	4.43	3.61	5.6	5.6	5.4	6.0
December	29.475	29.950	28.780	34.8	40.3	39.9	45.9	31.2	38.6	62	16	28	29	30	77	64	68	.157	.161	.170	2.89	1.85	4.9	6.1	3.9	5.7
Year	29.420	30.160	28.780	54.6	63.9	62.5	68.6	51.5	60.1	98	12	46	46	47	73	55	59	.364	.367	.372	41.10	3.61	4.6	5.0	4.1	4.6

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	29.179	29.908	28.530	18.4	22.9	....	28.8	14.0	21.4	48	−8	14	16	....	80	71	....	0.088	0.093	.....	0.59	0.18	5.2	7.3	....	6.4
February	29.106	29.820	28.350	18.4	25.3	....	32.0	15.7	23.8	61	−4	14	16	....	85	67	....	.088	.097	.....	.46	.20	6.2	6.6	....	6.4
March	29.065	29.835	28.350	27.8	36.0	....	43.0	24.4	33.7	69	2	22	24	....	77	60	....	.127	.140	.....	2.51	1.20	5.8	6.5	....	6.0
April	28.998	29.650	28.420	43.1	55.2	....	60.4	40.4	50.4	79	25	35	35	....	72	48	....	.214	.222	.....	2.46	.60	5.8	5.8	....	5.5
May	29.110	29.510	28.710	53.7	64.3	....	69.1	50.6	59.8	90	31	46	45	....	76	53	....	.341	.335	.....	3.38	1.48	6.1	5.9	....	5.6
June	29.051	29.578	28.860	67.8	78.2	....	82.8	64.2	73.5	97	47	59	58	....	74	53	....	.522	.512	.....	4.70	2.58	4.0	4.5	....	4.3
July	29.073	29.360	28.740	71.2	83.1	....	86.8	66.6	76.7	96	55	63	61	....	76	48	....	.587	.543	.....	2.39	.59	3.9	4.1	....	3.2
August	29.106	29.430	28.730	62.7	75.4	....	80.0	59.9	70.0	91	51	56	56	....	81	52	....	.467	.467	.....	2.79	1.46	4.7	4.3	....	4.3
September	29.011	29.390	28.580	56.8	68.3	....	72.3	54.2	63.2	88	42	50	51	....	80	57	....	.383	.392	.....	3.21	1.03	4.7	4.3	....	4.6
October	29.026	29.350	28.580	43.3	55.0	....	59.5	41.8	50.6	73	30	36	37	....	77	53	....	.218	.226	.....	.48	.24	4.6	5.4	....	4.7
November	29.166	29.680	28.680	24.9	30.0	....	33.4	20.7	27.0	53	−5	20	21	....	82	71	....	.114	.116	.....	1.58	.37	7.6	7.4	....	7.4
December	29.141	29.700	28.390	17.8	22.8	....	27.8	12.6	20.2	44	−17	14	16	....	81	72	....	.089	.098	.....	.27	.15	5.5	6.9	....	6.8
Year	29.086	29.930	28.350	42.2	51.4	....	56.3	38.8	47.5	97	−17	36	36	....	78	59	....	.270	.270	.....	24.82	2.58	5.3	5.8	....	5.4

Annual meteorological summary for the year ending December 31, 1921—Continued.

SAGINAW, MICH.

[H_b=641 ft.; h_1=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.	0.01 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	10.3	SW.	35	W.	0	4	10	2	7	6	16	6	11	0	4	13	14	7	3	13	4	0	1	11	0	24	0	0
February	9.1	SW.	38	SW.	0	2	11	3	10	8	8	3	11	0	4	6	18	10	6	17	9	0	0	11	0	27	0	0
March	10.4	NW.	34	SW.	0	4	14	2	9	8	10	4	11	0	6	7	18	17	13	6	1	1	2	2	0	20	5	0
April	10.4	SW.	36	SW.	0	1	9	4	8	12	12	3	11	0	8	7	15	12	11	3	2	0	1	0	0	7	4	0
May	9.0	NE.	40	NE.	1	8	18	4	7	3	13	3	6	0	10	11	10	8	6	0	0	2	0	0	0	0	5	0
June	6.7	NE.	24	SW.	0	5	16	5	9	5	9	4	7	0	11	6	13	10	7	0	0	0	0	0	3	0	9	0
July	6.2	S.	36	SW.	0	10	12	3	9	11	11	4	2	0	13	15	3	7	5	0	0	0	0	0	15	0	8	0
August	6.6	SW.	26	SW.	0	8	5	5	12	7	15	4	6	0	10	13	8	10	9	0	0	0	0	0	0	0	4	0
September	7.6	SW.	30	SW.	0	3	3	4	11	8	16	4	11	0	10	10	10	11	7	0	0	0	1	0	0	0	4	1
October	9.0	SW.	32	SW.	0	4	7	2	7	9	12	6	15	0	8	13	10	13	9	1	0	1	4	0	0	2	1	0
November	8.5	NW.	35	NE.	0	9	8	4	7	3	11	4	14	0	0	7	23	12	7	12	7	0	3	2	0	21	0	0
December	9.5	NW.	33	SW.	0	6	4	1	9	10	8	8	16	0	1	9	21	13	6	19	9	0	1	13	0	28	0	0
Year	8.6	SW.	40	NE.	1	64	117	39	105	90	141	53	121	0	85	117	163	130	89	71	32	4	13	39	18	129	40	1

ST. JOSEPH, MO.

[H_b=967 ft.; h_1=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.	0.01 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	8.3	SW.	36	NW.	0	4	9	5	8	13	7	5	10	1	6	13	12	5	4	7	2	0	2	7	0	22	0	0
February	9.3	NW.	42	W.	1	4	8	5	4	12	6	4	13	0	13	5	10	5	3	5	2	0	1	0	0	22	0	0
March	11.0	S.	42	W.	1	11	6	4	4	18	4	6	9	0	13	8	10	10	6	2	0	1	2	0	0	8	4	0
April	11.1	S.	33	SW.	0	4	4	6	8	17	5	6	10	0	12	9	9	10	9	2	1	1	0	0	0	4	5	0
May	7.9	S.	48	W.	1	2	6	12	11	13	6	0	12	0	16	10	5	8	7	0	0	1	1	0	7	0	8	2
June	6.3	E.	22	W.	0	3	9	19	3	9	6	10	1	0	17	4	9	11	9	0	0	0	0	0	13	0	10	0
July	5.9	SE.	30	NW.	0	4	7	5	20	11	6	4	5	0	20	10	1	8	7	0	0	0	0	0	23	0	8	0
August	6.9	SE.	32	NW.	0	4	7	5	22	10	6	3	5	0	17	9	5	12	9	0	0	0	0	0	12	0	10	0
September	8.0	SE.	30	NW.	0	1	6	2	29	12	6	0	4	0	15	7	8	14	13	0	0	0	0	0	4	0	11	1
October	8.3	SW.	36	NW.	0	4	4	4	16	12	12	0	10	0	19	6	6	8	6	0	0	0	0	0	0	0	4	0
November	7.7	NW.	31	NW.	0	5	7	5	11	6	8	2	16	0	13	10	7	1	0	3	0	0	1	2	0	16	0	0
December	9.3	NW.	39	NW.	0	5	10	5	6	8	8	7	13	0	15	8	8	5	3	6	2	0	0	7	0	23	1	0
Year	8.3	SE.	48	W.	3	51	83	77	142	141	80	47	108	1	176	99	90	97	76	25	7	3	7	16	59	95	61	3

ST. LOUIS, MO.

[H_b=568 ft.; h_1=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.	0.01 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	14.5	S.	44	S.	1	7	4	6	5	21	8	1	10	0	6	11	14	8	6	5	2	0	0	4	0	14	1	0
February	12.8	S.	58	S.	3	6	8	4	7	13	4	4	10	0	10	9	9	7	7	1	0	0	1	1	0	13	1	0
March	16.5	S.	50	S.	7	11	3	4	8	26	2	2	6	0	9	14	8	15	11	0	0	2	2	0	0	3	8	0
April	16.5	S.	48	S.	8	10	0	2	3	31	4	2	8	0	12	10	8	13	12	3	0	1	0	0	0	2	4	0
May	10.6	S.	46	NE.	1	14	4	9	2	15	10	6	2	0	16	10	5	7	6	0	0	0	0	0	5	0	6	2
June	10.9	S.	48	N.	2	2	7	7	0	25	6	7	6	0	11	14	5	12	9	0	0	0	0	0	14	0	13	0
July	9.0	S.	42	SW.	2	17	11	2	1	14	7	4	6	0	19	12	0	7	6	0	0	0	0	0	25	0	8	0
August	11.3	S.	48	NW.	1	6	4	7	1	31	7	4	2	0	14	12	5	10	9	0	0	0	0	0	7	0	5	0
September	11.4	S.	43	W.	2	7	5	5	3	26	10	3	1	0	8	11	11	18	17	0	0	0	1	0	3	0	10	0
October	14.1	S.	40	SE.	1	6	1	0	2	30	7	5	11	0	23	3	5	5	4	0	0	0	0	0	0	0	3	0
November	12.4	S.	40	N.	1	19	2	5	2	16	3	7	6	0	7	11	12	8	8	4	0	0	2	0	0	6	4	0
December	14.5	S.	43	S.	3	10	5	3	3	14	5	14	8	0	10	6	15	6	6	6	2	0	1	3	0	18	1	0
Year	12.9	S.	58	S.	32	115	54	54	37	262	73	59	76	0	145	123	97	116	101	19	4	3	7	8	54	56	64	2

ST. PAUL, MINN.

[H_b=837 ft.; h_1=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.	0.01 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	12.7	SE.	45	NW.	2	2	0	3	8	1	4	3	10	0	4	12	15	7	6	7	4	0	0	18	0	30	0	0
February	11.7	SE.	52	SW.	2	1	2	0	9	4	4	4	4	0	7	7	14	6	4	9	6	0	1	18	0	26	0	0
March	14.1	NW.	56	NW.	5	2	1	4	10	0	3	2	9	0	8	11	12	9	6	10	4	2	0	6	0	23	3	0
April	14.7	SE.	44	SE.	3	1	5	2	8	3	6	0	5	0	8	14	8	11	8	1	1	0	0	0	0	8	0	0
May	11.6	SE.	39	SW.	0	5	1	4	9	5	1	3	3	0	9	10	12	15	12	1	0	0	2	0	0	3	3	4
June	9.8	SE.	40	SE.	1	2	0	2	15	2	6	1	2	0	12	12	6	6	6	0	0	0	0	0	8	0	5	0
July	9.9	SW.	44	S.	1	2	0	2	8	4	8	5	2	0	15	15	1	11	8	0	0	0	1	0	9	0	9	0
August	10.4	SE.	48	W.	2	3	2	0	12	2	3	6	3	0	10	19	2	7	7	0	0	0	1	0	1	0	5	0
September	12.8	SW.	54	SE.	5	1	0	5	7	3	9	5	0	0	11	12	7	11	11	0	0	0	1	0	0	0	8	1
October	12.7	NW.	56	W.	3	2	2	1	6	3	8	6	3	0	13	9	9	7	5	1	1	0	1	0	0	1	0	0
November	10.1	NW.	33	W.	0	2	3	2	4	2	4	3	9	1	5	6	19	8	8	10	8	0	3	12	0	25	0	0
December	12.9	NW.	60	W.	3	1	1	1	6	0	9	1	12	0	3	13	15	7	1	14	7	0	2	17	0	30	0	0
Year	12.0	SE.	60	W.	27	24	17	26	102	29	65	39	62	1	105	140	120	105	82	53	31	2	12	71	18	146	33	5

Annual meteorological summary for the year ending December 31, 1921—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	25.666	26.080	25.300	33.3	39.3	37.4	42.4	29.0	35.7	58	16	23	25	25	67	55	62	0.125	0.133	0.135	1.44	0.45	5.5	6.4	7.5	6.5
February	25.699	26.150	25.060	32.3	41.1	40.6	44.4	29.1	36.8	65	12	25	27	28	72	59	62	.134	.148	.156	1.06	.46	5.3	6.7	5.7	5.9
March	25.591	26.000	25.220	40.9	51.7	50.4	54.9	37.4	46.2	71	28	28	27	30	61	40	48	.158	.151	.169	1.03	.38	5.6	6.5	5.3	6.0
April	25.536	25.900	24.980	40.7	50.9	51.4	56.0	37.9	47.0	71	25	30	29	30	66	48	48	.166	.164	.171	2.65	.93	5.9	7.3	6.9	6.7
May	25.488	25.740	25.197	52.1	64.1	65.2	68.9	49.3	59.1	82	38	35	33	35	55	36	37	.208	.192	.207	1.95	.67	6.2	5.4	6.5	6.1
June	25.550	25.740	25.094	61.9	78.4	79.6	82.7	59.8	71.2	96	47	43	40	40	51	28	27	.276	.249	.260	.08	.07	4.5	2.8	4.7	3.9
July	25.628	25.800	25.361	68.2	84.2	85.2	89.3	65.4	77.4	99	46	46	44	43	46	30	25	.319	.317	.295	.36	.26	3.9	2.0	4.2	3.2
August	25.655	25.840	25.512	66.0	80.9	81.9	85.6	63.7	74.6	93	57	48	47	46	53	31	31	.334	.324	.319	.82	.28	3.6	3.8	5.3	4.2
September	25.610	25.850	25.350	54.0	70.9	70.0	74.5	50.7	62.6	86	40	36	36	35	51	39	30	.216	.224	.208	.44	.39	1.7	1.9	2.8	2.0
October	25.685	26.120	25.300	51.3	65.9	64.0	68.9	48.4	58.6	83	35	34	36	37	52	35	39	.196	.211	.223	1.29	1.13	2.8	2.3	3.7	3.1
November	25.686	25.950	25.320	40.6	51.3	49.7	54.6	37.2	45.9	67	22	28	29	31	62	44	49	.149	.158	.172	1.04	.41	4.5	5.9	4.6	5.5
December	25.709	26.150	25.040	33.6	40.0	38.1	43.8	29.0	36.4	58	17	27	28	29	76	64	70	.148	.156	.164	2.29	.83	5.0	5.1	5.8	5.5
Year	25.625	26.150	24.980	47.9	59.9	59.5	63.8	44.7	54.3	99	12	34	33	34	59	42	44	.202	.202	.207	14.45	1.13	4.5	4.7	5.2	4.9

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	29.418	29.770	29.140	51.1	62.4	62.7	68.3	48.4	58.4	81	34	45	48	47	82	63	60	0.336	0.371	0.352	1.40	0.65	5.1	4.5	4.3	4.9
February	29.326	29.690	28.833	49.5	63.2	65.6	70.6	46.1	58.4	84	31	40	41	40	74	49	44	.271	.282	.272	.23	.21	5.1	3.6	2.5	3.9
March	29.270	29.700	28.900	60.1	70.6	71.1	76.3	57.7	67.0	86	41	56	57	57	87	64	64	.480	.490	.497	5.91	2.14	7.7	5.8	4.5	5.7
April	29.237	29.830	28.770	58.4	72.5	73.6	78.7	56.3	67.5	94	40	51	50	50	78	48	47	.405	.394	.385	2.78	1.39	4.9	3.8	3.3	4.1
May	29.229	29.450	28.990	66.5	80.2	80.3	85.8	65.0	75.4	96	54	62	62	60	87	54	52	.571	.555	.522	2.01	.92	6.1	5.6	3.8	5.2
June	29.180	29.330	29.030	67.8	85.5	84.8	90.5	71.4	81.0	99	65	68	67	67	83	55	57	.681	.658	.662	4.59	2.30	4.7	5.3	3.0	4.5
July	29.253	29.430	28.975	75.1	88.7	89.0	93.6	73.6	83.6	98	70	69	66	65	81	49	48	.705	.645	.627	.48	.24	4.2	4.2	2.6	3.8
August	29.277	29.440	29.108	74.9	90.6	91.3	96.4	74.0	85.2	100	70	70	63	62	83	41	40	.727	.584	.571	.45	.41	3.5	2.4	2.9	3.1
September	29.231	29.400	29.055	73.8	86.1	84.5	90.5	72.9	81.7	97	64	70	69	68	90	57	59	.748	.700	.694	8.27	6.83	6.3	5.4	4.0	5.3
October	29.286	29.640	28.980	60.3	77.0	75.8	82.2	58.5	70.4	90	48	53	52	52	80	44	46	.432	.426	.414	1.02	.78	2.2	2.2	.7	1.8
November	29.336	29.632	28.970	57.7	71.4	70.7	75.8	55.4	65.6	88	38	52	51	51	80	51	53	.413	.411	.410	1.16	.79	5.3	5.4	4.5	5.4
December	29.379	29.700	28.910	51.3	64.5	63.4	70.3	47.6	59.0	83	30	43	41	41	74	46	46	.312	.296	.287	.23	.15	4.3	3.6	3.0	3.9
Year	29.285	29.830	28.770	62.7	76.1	76.1	81.6	60.6	71.1	100	30	57	56	55	82	52	51	.507	.484	.474	28.53	6.83	5.0	4.3	3.3	4.3

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	30.018	30.340	29.750	48.4	58.5	55.9	60.9	46.2	53.6	76	38	41	44	47	78	62	73	0.233	0.300	0.328	2.02	1.00	4.8	5.7	4.6	5.0
February	29.978	30.220	29.790	49.6	60.3	59.2	63.5	46.9	55.2	89	39	42	46	47	76	62	68	.272	.316	.326	.35	.26	3.3	4.2	4.7	4.1
March	29.930	30.180	29.640	53.2	61.4	60.2	63.5	51.5	57.5	74	46	48	49	50	84	66	71	.339	.352	.366	1.13	.43	5.9	4.9	4.3	4.8
April	29.914	30.120	29.702	52.0	61.8	60.6	64.5	50.3	57.4	88	44	44	47	47	76	62	63	.290	.330	.331	.04	.04	4.2	2.4	2.7	2.8
May	29.871	30.010	29.700	55.0	60.7	59.7	62.8	54.1	58.4	65	49	50	51	52	85	72	75	.366	.382	.383	2.54	1.31	8.4	5.6	6.0	6.4
June	29.808	29.930	29.650	59.6	65.7	64.6	67.5	58.7	63.1	79	54	56	57	57	88	74	76	.450	.468	.461	T.	T.	9.3	4.6	4.6	5.7
July	29.821	29.950	29.640	64.9	70.7	69.7	72.7	64.1	68.4	77	59	61	62	62	88	75	76	.545	.567	.564	T.	T.	9.1	2.6	3.9	4.3
August	29.842	29.950	29.745	64.4	71.2	70.0	73.1	63.4	68.2	81	60	61	63	62	89	76	77	.538	.576	.559	T.	T.	8.7	2.0	2.1	3.4
September	29.794	29.940	29.610	62.3	70.4	69.2	72.6	60.9	66.8	89	55	57	60	60	84	71	74	.472	.523	.526	1.24	*1.50	7.1	1.1	1.0	2.6
October	29.863	30.080	29.687	60.5	68.2	66.3	70.4	58.7	64.6	87	50	54	58	58	83	74	76	.432	.489	.479	.67	.21	6.2	4.5	3.9	4.9
November	29.949	30.150	29.821	55.1	66.1	63.8	68.5	52.4	60.4	93	45	45	53	53	73	67	73	.315	.411	.412	.30	.16	4.2	3.6	3.5	3.7
December	29.955	30.180	29.656	55.4	63.4	61.5	66.4	52.2	59.3	79	46	44	49	52	70	69	75	.307	.382	.402	9.26	3.00	5.5	6.1	5.4	5.7
Year	29.895	30.340	29.610	56.7	64.9	63.4	67.2	55.0	61.1	93	38	50	53	54	81	69	73	.380	.425	.427	17.55	3.00	6.4	3.9	3.9	4.4

* Sept. 30–Oct. 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	30.104	30.360	29.920	69.8	70.6	70.9	72.6	67.4	70.0	78	59	63	63	63	79	78	77	0.580	0.592	0.588	1.29	0.62	4.8	4.7	3.0	4.5
February	30.033	30.260	29.830	71.0	71.8	71.4	73.5	68.9	71.2	79	60	63	63	63	76	78	76	.589	.593	.597	2.14	1.84	4.1	2.8	3.6	3.7
March	30.055	30.270	29.920	74.8	75.8	75.2	76.6	72.8	74.7	82	68	65	66	66	73	73	74	.628	.646	.644	.47	.22	2.3	3.9	1.9	2.9
April	29.991	30.140	29.890	75.4	76.0	75.8	77.5	73.3	75.4	83	64	66	66	66	73	71	73	.650	.642	.655	.39	.39	3.4	2.4	3.4	3.1
May	29.914	30.040	29.700	76.1	76.6	76.5	77.7	73.6	75.6	84	67	67	67	68	74	74	75	.672	.685	.691	1.05	.92	4.9	5.0	6.1	5.5
June	29.929	30.100	29.690	80.5	81.2	80.8	82.6	78.7	80.6	89	74	72	72	72	76	74	75	.794	.792	.791	.22	.17	4.4	4.3	3.8	4.2
July	30.026	30.160	29.900	82.0	82.3	82.1	83.6	78.3	81.0	89	72	73	73	73	74	74	74	.809	.818	.812	2.74	.91	5.5	6.1	5.8	5.9
August	30.019	30.160	29.820	82.1	82.6	82.1	84.1	78.0	81.0	89	72	74	74	74	76	76	77	.834	.841	.841	2.29	.59	5.1	5.3	5.0	5.3
September	29.972	30.080	29.820	81.8	83.0	82.1	83.8	78.1	81.0	89	71	74	74	74	78	74	76	.843	.842	.833	3.77	1.70	5.4	5.1	4.6	5.1
October	29.878	30.020	29.530	79.2	79.9	79.4	81.3	75.5	78.4	85	70	73	73	72	82	81	80	.809	.821	.798	.....	.....	7.1	7.2	6.8	7.1
November	30.031	30.170	29.810	75.3	76.4	76.4	77.8	73.1	75.4	83	63	67	68	67	77	75	74	.679	.685	.676	4.43	2.22	3.8	3.3	3.5	3.5
December	30.063	30.200	29.900	72.8	73.5	73.6	74.9	71.0	73.0	80	64	64	64	64	75	74	73	.611	.614	.610	.17	.07	2.6	2.8	1.8	2.5
Year	30.001	30.360	29.530	76.7	77.5	77.2	78.8	74.1	76.4	89	59	68	69	68	76	75	75	.708	.714	.711	.....	.....	4.4	4.4	4.1	4.4

Annual meteorological summary for the year ending December 31, 1921—Continued.

SALT LAKE CITY, UTAH.

[H_b=4,360 ft.; h_1=163 ft.; h_2=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	7.5	S.	31	SW.	0	4	3	8	12	18	4	1	12	0	8	6	17	12	9	13	9	0	0	2	0	23	0	0
February	6.5	NW.	44	W.	1	1	6	8	3	9	7	3	19	0	8	8	12	11	7	13	10	0	0	2	0	19	0	0
March	8.0	NW.	44	NW.	1	6	6	3	11	12	1	5	18	0	8	8	15	7	3	5	4	0	0	0	0	9	1	0
April	8.4	NW.	40	S.	1	7	5	6	10	6	7	0	17	2	5	9	16	11	9	7	5	0	0	0	0	8	2	0
May	8.7	SE.	42	S.	1	7	4	1	15	11	8	2	13	1	7	12	12	10	8	0	0	1	0	0	0	0	3	1
June	7.6	NW.	44	W.	2	6	4	4	9	10	5	3	18	1	16	9	5	3	1	0	0	0	0	0	11	0	7	0
July	7.6	SE.	44	SW.	2	9	5	7	8	11	6	1	15	0	16	14	1	3	3	0	0	0	6	0	21	0	5	0
August	7.5	SE.	46	SE.	1	4	6	3	14	11	10	0	14	0	14	12	5	8	6	0	0	1	0	0	4	0	10	0
September	7.5	NW.	48	NW.	1	8	6	4	11	9	1	1	20	0	23	5	2	3	2	0	0	0	0	0	0	0	3	0
October	6.3	NW.	40	NW.	1	8	3	4	10	10	1	2	23	1	20	5	6	4	3	1	1	0	0	0	0	0	2	0
November	5.9	SE.	30	SW.	0	8	4	5	7	18	7	2	9	0	11	6	13	6	3	6	3	0	0	0	0	4	0	0
December	6.2	NW.	56	NW.	3	1	9	2	10	10	8	1	21	0	11	7	13	9	5	7	5	0	1	1	0	20	1	0
Year	7.3	NW.	56	NW.	14	69	61	55	120	135	65	21	199	5	147	101	117	87	59	52	37	2	1	5	36	83	34	1

SAN ANTONIO, TEX.

[H_b=693 ft.; h_1=119 ft.; h_2=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	SE.	28	NW.	0	13	8	3	21	8	4	2	3	0	14	6	11	11	6	0	0	0	2	0	0	0	1	0
February	9.0	SE.	37	NW.	0	11	11	2	16	1	4	0	11	0	14	7	7	2	1	0	0	0	1	0	0	1	3	0
March	9.4	SE.	37	N.	0	11	10	4	27	4	0	1	5	0	9	10	12	10	5	0	0	0	1	0	0	0	8	0
April	9.7	SE.	42	NW.	1	11	8	2	28	1	2	0	8	0	13	12	5	12	8	0	0	0	2	0	1	0	8	0
May	7.9	SE.	54	NW.	2	0	13	14	27	5	0	1	1	1	8	15	8	6	5	0	0	1	1	0	6	0	7	1
June	8.1	SE.	31	NW.	0	2	11	12	27	5	0	0	3	0	13	12	5	7	5	0	0	0	0	0	21	0	6	0
July	8.0	SE.	32	E.	0	4	8	12	29	5	3	0	1	0	16	13	2	4	2	0	0	0	0	0	28	0	4	0
August	7.6	SE.	27	NE.	0	1	7	8	32	9	1	1	3	0	19	10	2	2	2	0	0	0	0	0	31	0	1	0
September	7.2	SE.	33	SE.	0	1	13	12	33	1	0	0	0	0	2	24	4	5	4	0	0	0	0	0	19	0	6	0
October	6.7	N.	31	N.	0	18	10	5	11	4	2	0	12	0	22	8	1	2	2	0	0	0	2	0	1	0	1	0
November	6.2	NE.	40	NW.	1	9	12	8	14	7	3	1	6	0	9	11	10	3	3	0	0	0	3	0	0	0	4	0
December	7.9	NW.	32	NW.	0	10	13	3	6	13	7	1	9	0	14	11	6	3	2	0	0	0	2	0	0	1	1	0
Year	8.0	SE.	54	NW.	4	91	124	85	271	63	26	7	62	1	153	139	73	67	45	0	0	1	14	0	107	2	50	1

SAN DIEGO, CALIF.

[H_b=87 ft.; h_1=62 ft.; h_2=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	5.4	NW.	38	S.	0	7	6	11	7	6	4	6	15	0	11	9	11	10	6	0	0	0	3	0	0	0	1	0
February	6.5	NW.	38	S.	0	4	7	6	3	5	5	7	18	1	14	8	6	4	2	0	0	0	5	0	0	0	0	0
March	7.1	NW.	24	W.	0	3	4	5	4	10	3	16	17	0	10	14	7	5	5	0	0	0	2	0	0	0	0	0
April	8.3	NW.	38	W.	0	5	8	8	1	7	6	10	14	1	18	10	2	1	1	0	0	1	2	0	0	0	0	0
May	7.5	SW.	28	S.	0	5	2	6	4	10	14	16	5	0	3	15	13	7	6	0	0	0	0	0	0	0	1	0
June	5.5	W.	18	NW.	0	5	4	3	1	6	3	22	6	0	9	10	11	0	0	0	0	0	0	0	0	0	0	0
July	5.8	SW.	20	NW.	0	5	1	1	3	7	17	15	12	1	13	16	2	0	0	0	0	0	0	0	0	0	0	0
August	6.0	W.	18	NW.	0	3	0	1	1	3	5	23	25	1	19	11	1	0	0	0	0	0	1	0	0	0	0	0
September	6.2	NW.	20	S.	0	7	0	3	1	5	7	14	23	0	24	4	2	2	1	0	0	0	3	0	0	0	0	0
October	5.5	NW.	24	NW.	0	5	4	0	1	11	1	10	29	1	12	8	11	4	3	0	0	0	6	0	0	0	0	0
November	4.9	NW.	25	W.	0	5	8	8	0	1	7	10	21	0	16	8	6	3	2	0	0	0	4	0	1	0	0	0
December	6.4	NW.	40	S.	1	7	7	8	6	10	3	2	19	0	10	9	12	8	8	0	0	0	1	0	0	0	1	0
Year	6.3	NW.	40	S.	1	61	51	60	32	81	85	151	204	5	159	122	84	44	34	0	0	1	27	0	1	0	3	0

SAND KEY, FLA.

[H_b=23 ft.; h_1=39 ft.; h_2=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	17.8	NE.	50	N.	4	8	28	14	7	0	1	0	4	0	11	14	6	7	6	0	0	0	0	0	0	0	1	0
February	15.3	NE.	43	NW.	1	10	13	12	7	4	7	1	2	0	12	14	2	4	3	0	0	0	0	0	0	0	2	0
March	14.8	E.	36	E.	0	7	11	32	11	1	0	0	0	0	20	9	2	9	4	0	0	0	0	0	0	0	0	0
April	16.9	E.	38	SE.	0	10	7	23	15	2	1	0	2	0	19	9	2	1	1	0	0	0	0	0	0	0	2	0
May	15.3	E.	35	NW.	0	4	2	27	15	3	2	1	8	0	8	14	9	8	2	0	0	0	0	0	0	0	6	0
June	10.0	E.	25	E.	0	2	6	26	18	1	2	3	2	0	13	15	2	5	1	0	0	0	0	0	0	0	5	0
July	11.2	SE.	39	SE.	0	0	4	20	24	4	4	2	3	1	7	12	12	13	12	0	0	0	0	0	0	0	13	0
August	12.7	E.	46	E.	1	0	4	38	19	0	0	0	1	0	8	16	7	18	9	0	0	0	0	0	0	0	12	0
September	13.0	E.	44	SE.	2	0	10	33	16	1	0	0	0	0	8	16	6	11	10	0	0	0	0	0	0	0	10	0
October	14.3	SE.	56	S.	2	5	14	12	11	9	3	3	5	0	6	7	18	19	15	0	0	0	0	0	0	0	9	0
November	15.7	E.	42	NE.	2	6	17	20	8	0	0	2	7	0	15	12	3	9	6	0	0	0	0	0	0	0	6	0
December	15.9	NE.	44	NW.	1	6	18	14	9	4	1	1	9	0	20	11	0	4	2	0	0	0	0	0	0	0	1	0
Year	14.4	E.	56	S.	13	58	134	271	160	29	21	13	43	1	147	149	69	108	71	0	0	0	0	0	0	0	67	0

Annual meteorological summary for the year ending December 31, 1921—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	29.448	30.240	28.850	30.1	34.4	....	38.4	27.2	32.8	56	13	24	25	....	76	69	....	0.136	0.145	.....	1.59	0.62	6.8	6.9	....	6.7
February	29.362	29.910	28.920	30.2	33.8	....	38.0	27.2	32.6	65	19	26	26	....	82	74	....	.139	.148	.....	1.91	.61	8.6	8.0	....	8.1
March	29.384	30.020	28.780	42.8	47.7	....	54.7	36.4	45.6	77	22	36	38	....	78	72	....	.227	.256	.....	4.07	.92	7.7	7.8	....	7.7
April	29.329	29.740	28.710	51.0	59.2	....	63.2	46.3	54.8	85	28	42	46	....	72	64	....	.280	.329	.....	2.65	.64	5.5	5.8	....	5.7
May	29.340	29.640	29.100	59.0	65.5	....	69.7	53.9	61.8	88	40	51	51	....	74	61	....	.387	.399	.....	2.28	.77	5.6	5.5	....	5.3
June	29.326	29.700	29.010	70.0	75.7	....	79.3	64.7	72.0	94	52	60	62	....	70	63	....	.530	.567	.....	1.73	.87	5.9	3.8	....	5.0
July	29.329	29.520	29.050	76.9	83.1	....	87.0	70.4	78.7	98	62	66	66	....	70	60	....	.644	.659	.....	3.26	1.00	3.4	3.2	....	3.7
August	29.388	29.640	28.980	67.1	75.6	....	79.4	62.5	71.0	91	54	58	61	....	75	63	....	.502	.557	.....	3.49	2.15	5.4	5.6	....	5.1
September	29.324	29.640	28.820	67.5	74.7	....	77.9	62.6	70.2	90	50	60	61	....	78	63	....	.531	.547	.....	5.04	1.33	5.4	5.7	....	5.5
October	29.283	29.790	28.890	49.4	58.9	....	62.4	45.8	54.1	79	33	42	44	....	77	60	....	.276	.294	.....	1.54	.99	5.6	6.0	....	5.2
November	29.353	29.850	28.970	39.5	43.2	....	48.1	36.2	42.2	69	27	36	36	....	85	74	....	.218	.217	.....	3.18	.95	8.4	9.0	....	8.5
December	29.325	29.800	28.580	31.5	34.4	....	38.2	27.5	32.8	60	14	26	27	....	78	73	....	.144	.154	.....	1.55	.56	8.2	8.4	....	8.3
Year	29.349	30.240	28.580	51.2	57.2	....	61.4	46.7	54.0	98	13	44	45	....	76	66	....	.335	.356	.....	32.29	2.15	6.4	6.3	....	6.2

SANDY HOOK, N. J.

[ϕ=40° 28′ N.; λ=74° 01′ W.]

January	30.134	30.940	29.440	31.4	35.1	34.2	39.7	27.7	33.7	54	8	26	28	27	79	74	73	0.153	0.164	0.158	2.06	1.13	5.8	5.5	4.5	5.7
February	30.058	30.570	29.380	32.0	36.2	35.3	39.2	29.0	34.1	57	14	27	30	30	82	78	81	.153	.172	.171	3.11	1.44	6.3	5.3	5.4	6.5
March	30.143	30.610	29.660	43.5	49.2	46.7	54.6	38.9	46.8	76	28	39	43	41	84	79	82	.253	.296	.260	2.17	.79	4.7	4.6	4.9	5.5
April	30.029	30.470	29.570	50.4	57.6	53.6	61.7	46.2	54.0	75	31	45	49	48	87	74	81	.326	.356	.335	2.21	.86	5.8	5.9	5.2	6.2
May	29.985	30.420	29.650	56.4	63.3	57.6	65.8	52.1	59.0	86	45	51	54	51	83	72	79	.383	.423	.380	4.16	1.07	6.5	5.3	5.9	6.4
June	29.950	30.290	29.550	67.1	73.3	68.6	76.4	61.7	69.0	91	52	58	59	59	74	63	72	.497	.513	.508	2.66	1.49	3.6	4.2	4.8	4.8
July	29.970	30.228	29.590	73.3	80.1	74.2	82.7	69.1	75.9	92	62	68	69	68	84	70	82	.691	.709	.688	6.42	4.44	5.6	5.7	6.5	6.0
August	30.062	30.300	29.650	68.4	74.9	70.6	77.6	65.0	71.3	92	60	61	62	63	79	65	77	.554	.562	.582	4.63	1.51	4.5	4.3	3.6	4.9
September	30.014	30.290	29.590	68.4	74.5	70.7	77.2	65.6	71.4	91	60	60	60	63	77	64	76	.542	.544	.530	1.47	.68	5.0	4.7	4.0	5.1
October	29.978	30.510	29.390	53.1	59.0	56.0	62.2	49.7	56.0	74	39	46	46	47	77	63	74	.315	.316	.334	.49	.15	3.4	4.5	2.0	4.4
November	30.032	30.465	29.510	43.4	47.2	45.7	50.6	40.7	45.6	69	32	38	39	39	82	75	78	.239	.252	.247	2.95	.55	6.6	6.2	5.6	6.5
December	30.009	30.720	29.310	31.9	35.4	34.6	39.2	27.9	33.6	56	10	25	26	25	73	68	68	.139	.147	.147	1.64	.37	5.6	5.0	3.9	5.2
Year	30.030	30.940	29.310	51.6	57.2	54.0	60.6	47.8	54.2	92	8	45	47	47	80	70	77	.354	.371	.367	33.97	4.44	5.3	5.1	4.7	5.6

SAN FRANCISCO, CALIF.

[ϕ=37° 48′ N.; λ=122° 26′ W.]

January	29.946	30.350	29.408	47.1	50.6	52.3	54.5	44.5	49.5	61	39	40	40	41	79	70	66	0.285	0.259	0.259	6.30	2.65	5.1	5.7	5.9	6.1
February	29.986	30.250	29.612	48.3	54.8	57.0	59.6	46.2	52.9	69	40	43	42	44	84	65	64	.286	.279	.293	1.38	.62	4.1	5.9	5.7	6.0
March	29.896	30.230	29.506	50.4	57.4	57.9	60.4	48.7	54.6	73	45	46	45	45	84	65	65	.306	.304	.306	2.28	1.29	4.9	6.5	6.6	6.2
April	29.907	30.138	29.700	50.2	59.7	57.8	62.2	47.7	55.0	86	43	42	44	45	77	58	64	.276	.292	.302	.54	.46	3.9	3.9	3.9	4.1
May	29.805	30.020	29.550	50.1	58.3	56.3	60.5	48.2	54.4	71	44	46	47	47	86	66	71	.312	.322	.319	.52	.15	7.8	4.9	4.6	5.6
June	29.783	29.980	29.603	55.6	64.9	64.3	69.3	53.5	61.4	90	49	51	53	52	85	66	65	.370	.398	.386	T.	T.	4.3	2.2	3.4	3.4
July	29.772	29.890	29.581	54.1	63.9	62.1	66.9	52.6	59.8	94	50	50	51	50	87	66	69	.358	.372	.368	.00	.00	7.0	3.0	3.3	4.3
August	29.806	29.940	29.690	54.1	62.6	60.2	65.4	53.7	59.6	77	51	51	53	53	92	71	76	.381	.401	.397	.00	.00	8.6	2.6	3.4	4.6
September	29.759	29.950	29.536	56.4	67.9	64.4	71.1	55.5	63.3	93	52	53	53	53	87	61	68	.398	.403	.399	.35	.23	4.6	2.1	2.4	2.8
October	29.852	30.220	29.520	56.2	64.6	63.2	68.1	54.9	61.5	85	50	53	52	52	89	66	71	.401	.395	.398	.52	.18	4.6	4.4	3.6	4.6
November	29.941	30.190	29.713	52.4	60.0	59.9	64.1	51.5	57.8	79	45	47	47	48	85	66	69	.332	.330	.337	1.43	.85	3.4	4.9	4.1	4.5
December	29.888	30.290	29.170	49.4	54.1	54.8	57.7	48.1	52.9	66	44	45	45	44	86	72	69	.301	.301	.294	6.39	2.04	5.9	5.9	4.8	6.3
Year	29.862	30.350	29.170	52.0	59.9	59.2	63.3	50.4	56.9	94	39	47	48	48	85	66	68	.334	.338	.338	19.71	2.65	5.4	4.3	4.3	4.9

SAN JOSE, CALIF.

[ϕ=37° 20′ N.; λ=121° 54′ W.]

January	29.995	30.370	29.500	....	52.6	52.9	56.0	38.5	47.2	66	29	....	43	44	....	73	73	.....	0.286	0.291	4.75	1.72	....	5.2	5.3	6.3
February	.....	30.310	29.720	....	....	....	61.2	40.2	50.7	73	30	....	....	....	....	....	....	.....	.....	.....	1.09	.44	....	....	....	....
March	29.926	30.250	29.590	....	60.6	61.1	64.7	44.8	54.8	75	37	....	48	48	....	64	64	.....	.332	.337	.80	.23	....	5.4	5.7	5.2
April	29.927	30.150	29.760	....	63.2	62.9	67.3	41.9	54.6	90	34	....	42	44	....	48	53	.....	.278	.304	.40	.29	....	3.3	2.5	3.1
May	29.848	30.050	29.590	....	63.9	63.4	67.8	46.3	57.0	82	35	....	48	48	....	57	58	.....	.335	.335	.82	.39	....	4.4	3.6	5.1
June	29.833	29.990	29.680	....	74.9	73.6	78.4	51.6	65.0	97	44	....	53	54	....	49	51	.....	.412	.418	T.	T.	....	1.6	1.4	2.1
July	29.813	29.900	29.630	....	78.2	77.3	82.2	52.6	67.4	102	47	....	53	53	....	44	44	.....	.407	.411	.00	.00	....	(†)	(†)	1.7
August	29.849	29.980	29.770	....	75.2	73.7	79.5	51.1	65.3	90	43	....	54	55	....	49	52	.....	.422	.430	.00	.00	....	.5	.6	2.0
September	29.816	29.909	29.580	....	76.0	73.2	80.2	48.8	64.5	98	41	....	51	52	....	43	49	.....	.374	.385	.21	.13	....	1.7	1.3	2.2
October	29.894	30.250	29.640	....	69.3	67.8	73.7	48.6	61.2	90	39	....	51	51	....	55	57	.....	.382	.380	.21	.16	....	3.0	2.7	4.0
November	29.963	30.250	29.790	....	64.3	61.7	68.0	41.8	54.9	85	30	....	44	45	....	52	58	.....	.303	.309	1.65	.59	....	3.5	4.3	4.0
December	29.923	30.270	29.270	....	55.5	54.6	59.1	41.1	50.1	68	32	....	44	44	....	68	69	.....	.291	.290	4.66	1.45	....	5.6	6.0	6.2
Year	.....	30.370	29.270	....	....	....	69.3	45.6	57.7	102	29	....	....	....	....	....	....	.....	.....	.....	14.59	1.72	....	....	....	....

† Few.

Annual meteorological summary for the year ending December 31, 1921—Continued.

SANDUSKY, OHIO.

[H_b=629 ft.; h_1=62 ft.; h_r=54 ft.; h_a=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.	0.04 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	SW.	50	W.	3	4	2	1	1	4	13	2	4	0	7	8	16	14	8	14	7	0	2	9	0	21	0	0
February	12.5	SW.	42	SW.	1	3	1	4	3	2	7	7	1	0	3	6	19	13	9	13	8	0	0	6	0	24	0	0
March	14.2	SW.	46	S.	1	2	4	2	3	6	9	1	4	0	2	10	19	19	15	4	2	1	0	0	0	10	7	0
April	14.1	SW.	42	N.	3	2	4	0	6	7	9	1	1	0	9	9	12	12	9	4	3	0	0	0	0	2	2	0
May	10.9	N.	34	N.	0	7	2	3	2	3	8	4	2	0	9	14	8	9	9	0	0	0	0	0	0	0	7	2
June	9.3	NE.	35	NE.	0	1	10	2	5	1	9	2	0	0	6	18	6	9	7	0	0	0	0	0	3	0	8	0
July	9.0	SW.	42	W.	2	5	3	1	3	5	10	4	0	0	12	17	2	13	12	0	0	2	0	0	11	0	10	0
August	9.4	S.	30	W.	0	1	2	1	6	8	7	5	1	0	10	13	8	8	6	0	0	1	0	0	1	0	3	0
September	10.2	SW.	40	W.	1	3	0	2	1	7	12	3	2	0	7	13	10	13	12	0	0	0	0	0	1	0	10	0
October	13.4	SW.	39	NW.	0	1	2	2	1	8	11	3	3	0	10	8	13	11	7	1	0	0	0	0	0	0	0	0
November	14.2	SW.	56	N.	4	2	4	3	2	6	5	5	3	0	1	8	21	13	10	5	5	0	1	0	0	5	2	0
December	14.2	SW.	52	W.	4	3	2	1	2	4	8	8	3	0	3	6	22	14	10	14	10	0	0	5	0	25	0	0
Year	12.1	SW.	56	N.	19	34	36	22	35	61	108	45	24	0	79	130	156	148	114	55	35	4	3	20	16	87	49	2

SANDY HOOK, N. J.

[H_b=22 ft.; h_1=10 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	19.3	SW.	55	W.	10	7	6	1	4	9	15	6	14	0	9	10	12	10	8	4	3	0	2	5	0	18	1	0
February	17.1	W.	65	N.	5	9	7	3	4	4	11	8	10	0	5	12	11	10	7	8	4	0	4	3	0	21	0	0
March	16.8	S.	56	NW.	14	2	5	5	8	17	10	2	13	0	8	15	8	12	8	1	0	0	11	0	0	4	1	0
April	14.0	S.	54	NW.	5	4	8	1	6	19	8	9	5	0	9	8	13	11	7	1	1	0	6	0	0	1	1	0
May	15.4	NE.	63	NE.	5	6	13	8	4	12	11	4	4	0	4	15	12	11	11	0	0	0	2	0	0	0	2	2
June	13.0	SW.	51	NW.	4	3	5	6	2	16	11	9	8	0	12	12	6	7	5	0	0	0	3	0	1	0	8	0
July	11.4	SW.	52	S.	3	2	11	5	3	16	18	6	1	0	5	16	10	11	6	0	0	0	4	0	5	0	11	0
August	12.4	SW.	40	NW.	1	3	8	4	5	13	13	10	6	0	11	14	6	8	8	0	0	0	3	0	1	0	4	0
September	13.0	S.	52	S.	2	5	7	3	7	19	11	3	5	0	11	9	10	8	6	0	0	0	0	0	2	0	3	0
October	15.1	SW.	50	S.	5	4	4	1	4	17	14	13	5	0	11	15	5	4	4	0	0	0	3	0	0	0	2	0
November	17.2	W.	50	NW.	7	6	10	2	4	9	11	11	7	0	6	10	14	15	12	2	0	0	2	0	0	0	0	0
December	17.2	NW.	60	S.	7	4	3	1	1	9	16	11	17	0	12	8	11	8	6	9	4	0	1	4	0	21	0	0
Year	15.2	SW.	65	N.	68	55	87	40	52	160	149	92	95	0	103	144	118	115	88	25	12	0	41	12	9	65	33	2

SAN FRANCISCO, CALIF.

[H_b=155 ft.; h_1=208 ft.; h_r=202 ft.; h_a=243 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	9.9	SE.	51	N.	2	6	3	1	17	7	10	5	13	0	11	3	17	13	10	0	0	1	4	0	0	0	1	0
February	8.2	NW.	43	NW.	1	9	1	0	9	2	6	15	14	0	7	9	12	8	6	0	0	0	4	0	0	0	0	0
March	8.1	W.	32	N.	0	4	4	1	6	8	13	19	7	0	9	8	14	9	7	0	0	1	1	0	0	0	0	0
April	10.8	W.	40	NW.	2	3	0	0	1	2	15	21	17	1	13	12	5	4	2	0	0	0	0	0	0	0	0	0
May	11.5	W.	41	W.	1	1	0	0	2	3	18	33	5	0	11	8	12	7	5	0	0	0	0	0	0	0	0	1
June	11.5	W.	43	W.	1	0	0	0	2	4	17	32	5	0	18	11	1	0	0	0	0	0	5	0	0	0	0	0
July	9.1	SW.	30	SW.	0	0	0	0	0	0	35	24	1	2	15	11	5	0	0	0	0	0	1	0	2	0	0	0
August	10.2	SW.	36	W.	0	0	0	0	0	2	22	37	0	1	15	8	8	0	0	0	0	0	1	0	0	0	0	0
September	8.3	W.	33	W.	0	1	1	0	0	4	24	28	2	0	20	5	5	3	2	0	0	0	0	0	2	0	0	0
October	7.4	W.	34	W.	0	4	1	1	3	2	10	32	9	0	16	7	8	4	3	0	0	0	2	0	0	0	1	0
November	6.1	W.	26	NW.	0	6	2	1	8	3	6	21	13	0	14	7	9	5	4	0	0	0	6	0	0	0	0	0
December	8.3	SE.	58	SW.	1	8	4	4	13	5	5	9	14	0	10	6	15	13	11	0	0	0	3	0	0	0	0	0
Year	9.1	W.	58	SW.	8	42	16	8	61	42	181	276	100	4	159	95	111	66	50	0	0	2	27	0	4	0	2	1

SAN JOSE, CALIF.

[H_b=141 ft.; h_1=12 ft.; h_r=3 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	7.6	SE.	35	SE.	0	1	0	0	8	2	0	10	10	0	12	2	17	11	9	0	0	0	2	0	0	4	0	0
February	5.7	SE.	32	W.	0	....	....	....	....	....	....	....	....	....	....	....	....	6	5	0	0	0	....	0	0	1	0	0
March	6.0	SE.	26	S.	0	1	1	0	3	3	2	11	10	0	11	8	12	9	5	0	0	0	1	0	0	0	0	0
April	7.8	NW.	35	NW.	0	0	1	0	0	1	0	9	19	0	16	10	4	5	3	0	0	1	0	0	0	0	0	0
May	6.6	NW.	42	S.	1	2	0	0	0	2	1	7	19	0	14	3	14	7	6	0	0	0	0	0	0	0	0	1
June	7.0	NW.	28	NW.	0	2	0	0	0	0	0	2	26	0	22	8	0	0	0	0	0	0	0	0	3	0	0	0
July	6.4	NW.	23	NW.	0	1	0	0	0	0	0	0	30	0	26	5	0	0	0	0	0	0	0	0	0	6	0	0
August	5.7	NW.	20	NW.	0	6	0	0	0	0	0	0	25	0	26	5	0	0	0	0	0	0	0	0	0	0	0	0
September	5.7	S.	24	SW.	0	4	0	0	0	1	2	0	23	0	23	3	4	3	2	0	0	0	0	0	3	0	1	0
October	4.8	NW.	23	NW.	0	8	0	0	0	0	1	0	22	0	15	11	5	5	2	0	0	0	2	0	1	0	0	0
November	4.3	S.	22	SW.	0	6	1	2	1	0	0	1	19	0	16	5	9	7	6	0	0	0	4	0	0	3	0	0
December	6.6	SE.	43	S.	1	5	3	0	5	2	2	5	9	0	9	8	14	16	12	0	0	0	3	0	0	2	1	0
Year	6.2	NW.	43	S.	2	....	....	....	....	....	....	....	....	....	....	....	....	69	50	0	0	1	....	0	13	10	2	1

Annual meteorological summary for the year ending December 31, 1921—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	29.964	30.100	29.820	74.9	77.9	....	80.0	69.7	74.8	85	65	69	71	....	83	79	....	0.714	0.750	....	7.03	1.50	5.5	5.5	....	5.3
February	29.948	30.080	29.800	75.1	79.1	....	81.2	69.2	75.2	87	65	69	70	....	80	74	....	.698	.735	....	1.21	.41	4.6	5.1	....	4.7
March	29.953	30.080	29.820	75.3	77.9	....	79.5	69.7	74.6	84	67	67	69	....	77	73	....	.669	.699	....	5.75	.72	6.2	4.7	....	5.3
April	29.940	30.030	29.820	76.3	77.7	....	79.9	69.3	74.6	82	66	68	69	....	76	76	....	.684	.716	....	2.48	.98	5.3	5.6	....	5.5
May	29.887	29.980	29.780	79.2	80.5	....	82.8	72.2	77.5	90	70	72	72	....	79	77	....	.785	.792	....	7.23	1.71	6.8	7.0	....	6.5
June	29.911	30.040	29.800	82.2	83.5	....	86.1	74.7	80.4	92	72	74	74	....	75	74	....	.827	.853	....	2.20	.81	5.3	5.9	....	6.2
July	29.969	30.070	29.840	80.9	81.4	....	83.3	74.1	78.7	90	71	73	74	....	78	77	....	.823	.826	....	8.43	1.89	5.1	5.3	....	6.2
August	29.927	30.070	29.810	81.7	82.0	....	83.4	75.4	79.4	88	73	74	74	....	77	78	....	.828	.846	....	5.89	1.77	3.7	4.0	....	4.5
September	29.876	29.981	29.650	81.4	82.7	....	84.8	74.3	79.6	92	71	74	74	....	79	76	....	.844	.851	....	6.52	1.72	4.5	5.7	....	5.8
October	29.853	29.950	29.730	80.5	82.5	....	84.8	74.2	79.5	89	72	74	74	....	80	77	....	.829	.853	....	6.24	1.45	4.8	5.8	....	5.4
November	29.907	30.050	29.730	78.7	80.8	....	82.8	72.7	77.8	88	70	71	72	....	78	74	....	.758	.779	....	4.27	1.30	3.9	4.2	....	4.4
December	29.900	30.010	29.790	75.5	79.7	....	80.9	70.8	75.8	87	68	69	70	....	81	72	....	.707	.729	....	2.98	.87	4.8	4.2	....	4.6
Year	29.920	30.100	29.650	78.5	80.5	....	82.5	72.2	77.3	92	65	71	72	....	79	76	....	.764	.786	....	59.23	1.89	5.0	5.2	....	5.4

SAN LUIS OBISPO, CALIF.

[φ=35° 18′ N.; λ=120° 39′ 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	29.919	30.280	29.370	44.3	56.8	55.1	59.4	39.7	49.6	76	26	35	38	39	73	54	58	0.211	0.242	0.247	6.18	2.15	5.0	4.9	4.8	4.9
February	29.914	30.170	29.600	47.3	62.6	59.5	66.0	43.2	54.6	87	31	38	40	43	72	47	58	.233	.257	.281	2.16	.91	2.5	3.3	3.4	3.2
March	29.852	30.120	29.580	50.4	63.2	59.2	65.5	46.6	56.0	82	37	43	46	46	79	56	65	.281	.310	.313	2.29	.93	4.2	4.5	4.7	5.1
April	29.849	30.050	29.630	47.8	64.1	59.2	66.8	43.4	55.1	95	32	40	43	43	78	48	57	.250	.279	.282	.57	.49	3.4	2.9	1.6	2.9
May	29.778	29.910	29.560	48.2	63.2	58.3	65.8	46.6	56.2	86	38	44	45	47	87	54	66	.292	.306	.320	1.32	.64	5.1	4.0	3.7	4.2
June	29.726	29.890	29.560	54.6	72.9	66.0	76.9	51.8	64.4	98	43	48	51	51	83	48	61	.342	.372	.378	T.	T.	4.9	1.4	1.7	2.0
July	29.734	29.880	29.520	54.1	74.2	71.0	78.2	52.8	65.5	93	46	51	54	53	90	49	54	.369	.410	.405	T.	T.	7.7	1.5	0.8	2.6
August	29.762	29.870	29.663	54.2	74.3	70.6	77.8	52.1	65.0	86	47	50	52	53	90	47	64	.368	.391	.397	.00	.00	8.1	.6	.5	2.1
September	29.714	29.890	29.542	55.1	74.8	69.0	77.8	51.1	64.4	103	44	48	49	50	81	45	56	.337	.351	.367	.40	.28	4.3	2.5	1.7	2.9
October	29.789	30.060	29.600	55.4	74.0	66.5	77.0	51.5	64.2	103	38	45	45	47	73	42	56	.313	.310	.335	.16	.09	3.9	3.5	2.8	3.6
November	29.876	30.100	29.720	49.2	70.3	62.2	72.5	45.1	58.8	92	34	38	36	42	70	35	53	.239	.230	.273	.16	.16	3.1	3.8	2.9	3.8
December	29.746	30.100	29.443	47.4	63.7	58.5	66.5	44.3	55.4	82	32	39	39	43	76	48	61	.254	.262	.288	7.22	2.13	4.6	4.4	5.1	5.1
Year	29.805	30.280	29.370	50.7	67.8	62.9	70.8	47.4	59.1	103	26	43	45	46	79	48	59	.291	.310	.324	20.46	2.15	4.7	3.1	2.8	3.5

SANTA FE, N. MEX.

[φ=35° 41′ N.; λ=105° 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	23.255	23.500	23.040	27.0	37.2	34.2	42.0	22.9	32.4	55	9	20	23	22	73	57	61	0.108	0.128	0.122	1.35	1.13	4.3	5.8	5.7	5.6
February	23.205	23.510	22.750	26.5	39.9	40.6	45.8	23.9	34.8	63	10	20	23	20	74	52	44	.104	.120	.105	0.33	0.15	2.2	4.4	3.5	3.5
March	23.200	23.560	22.740	34.0	48.0	48.9	53.7	31.5	42.6	70	16	24	25	22	68	43	39	.130	.135	.122	.75	.38	3.7	4.6	5.2	4.8
April	23.145	23.570	22.690	32.9	49.2	50.9	56.3	30.6	43.4	72	18	20	19	18	60	32	32	.107	.102	.099	.55	.33	2.5	4.6	5.3	4.2
May	23.224	23.360	22.980	47.9	62.7	62.6	67.4	44.5	56.0	78	30	32	28	26	56	30	30	.184	.160	.148	2.35	1.08	3.2	5.3	5.8	4.9
June	23.281	23.440	23.087	55.0	70.1	69.4	75.0	50.8	62.9	87	40	42	45	45	64	45	47	.272	.317	.318	2.85	1.98	3.1	4.2	6.6	4.6
July	23.380	23.540	23.050	58.7	73.5	71.6	78.1	56.1	67.1	88	46	51	52	52	76	49	52	.375	.397	.392	3.87	1.36	4.1	5.4	7.1	5.5
August	23.408	23.503	23.250	56.4	73.1	69.3	77.0	55.0	66.0	86	49	49	50	51	78	45	54	.352	.358	.372	3.71	.85	3.9	5.1	7.8	5.4
September	23.314	23.460	23.170	52.6	70.7	70.6	76.0	51.0	63.5	83	40	40	40	38	63	36	33	.253	.260	.240	.18	.10	2.1	3.2	3.6	3.0
October	23.328	23.500	22.970	43.5	60.4	56.2	65.3	40.8	53.0	78	28	32	33	32	65	38	42	.184	.191	.184	.98	.49	2.3	2.5	3.1	2.7
November	23.283	23.540	22.870	33.0	50.4	44.6	54.6	31.3	43.0	65	14	19	19	17	55	29	32	.101	.100	.093	T.	T.	1.6	2.0	2.2	2.1
December	23.287	23.550	22.790	31.0	41.5	36.7	45.6	27.5	36.6	58	9	23	25	24	71	51	59	.123	.134	.131	.88	.58	4.2	5.9	4.6	5.3
Year	23.276	23.570	22.690	41.5	56.4	54.6	61.4	38.8	50.1	88	9	31	32	31	67	42	44	.191	.200	.194	17.80	1.98	3.1	4.4	5.0	4.3

SAULT STE. MARIE, MICH.

[φ=46° 30′ N.; λ=84° 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	29.384	30.250	28.560	16.8	21.0	21.0	27.2	12.4	19.8	44	−9	14	14	16	84	74	78	0.092	0.094	0.097	1.35	0.29	7.7	7.4	6.2	7.4
February	29.326	29.920	28.600	15.1	23.6	22.6	28.3	11.4	19.8	50	−6	11	17	19	81	73	83	.075	.099	.104	.84	.15	6.8	6.1	6.8	6.8
March	29.321	30.160	28.570	24.7	29.4	28.3	34.3	19.4	26.8	62	3	21	23	24	86	77	82	.122	.131	.131	4.07	2.07	8.3	7.7	5.9	7.9
April	29.298	29.743	28.651	38.4	48.3	45.6	52.9	33.0	43.0	76	15	32	38	37	77	68	73	.193	.243	.235	2.64	.88	5.5	6.4	5.2	6.3
May	29.357	29.583	28.950	49.3	58.1	53.7	61.9	42.7	52.3	85	28	41	44	43	74	62	68	.266	.309	.290	2.21	1.14	5.9	5.4	5.3	5.6
June	29.314	29.772	29.010	58.9	70.5	67.0	74.5	51.5	63.0	91	37	50	56	55	73	62	66	.374	.474	.449	.56	.27	4.5	3.5	3.0	3.7
July	29.294	29.530	28.890	69.4	81.6	75.4	84.9	63.3	74.1	98	52	63	68	65	82	65	71	.588	.703	.622	3.10	1.62	4.0	4.8	3.2	4.4
August	29.334	29.648	28.940	59.9	68.8	65.2	72.1	54.7	63.4	85	46	54	58	56	83	71	73	.433	.497	.462	3.48	.69	5.6	5.9	4.5	5.4
September	29.230	29.630	28.750	57.1	67.2	61.5	69.7	53.3	61.5	86	44	53	54	53	87	64	75	.415	.437	.415	4.28	1.69	6.1	5.7	6.1	4.5
October	29.245	29.614	28.710	43.1	50.8	47.2	53.0	39.8	46.4	66	27	38	39	40	84	66	76	.239	.249	.251	3.47	.90	7.2	7.7	5.4	7.1
November	29.362	29.820	28.930	27.2	30.9	30.5	34.5	24.5	29.5	46	10	23	25	26	84	80	82	.134	.138	.141	2.21	.40	7.8	7.6	7.9	8.1
December	29.250	29.747	28.395	19.5	22.7	23.0	27.2	14.4	20.8	44	−10	16	18	20	86	83	87	.101	.107	.113	3.43	1.48	8.4	8.3	8.6	8.4
Year	29.310	30.250	28.395	40.0	47.7	45.1	51.7	35.0	43.4	98	−10	35	38	38	82	70	76	.253	.290	.276	31.64	2.07	6.5	6.4	5.7	6.5

Annual meteorological summary for the year ending December 31, 1921—Continued.

SAN JUAN, P. R.

[H_b=82 ft.; h_t=9 ft.; h_r=4 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.	0.01 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	14.1	E.	54	NE.	3	0	6	12	1	6	6	0	0	0	8	16	7	23	19	0	0	0	0	0	0	0	0	0
February	10.4	E.	36	E.	0	0	0	7	2	12	7	0	0	0	10	13	5	13	8	0	0	0	0	0	0	0	0	0
March	18.6	E.	48	E.	8	0	3	21	3	3	1	0	0	0	5	21	5	28	22	0	0	0	0	0	0	0	0	0
April	14.2	E.	42	E.	1	0	1	24	0	5	0	0	0	0	7	16	7	13	9	0	0	0	0	0	0	0	0	0
May	11.3	E.	31	E.	0	1	0	17	5	8	0	0	0	0	4	15	12	20	14	0	0	0	0	0	1	0	3	1
June	11.4	E.	34	E.	0	0	0	17	4	9	0	0	0	0	4	16	10	9	8	0	0	0	0	0	6	0	4	0
July	13.5	E.	38	E.	0	0	0	22	6	3	0	0	0	0	5	16	10	24	21	0	0	0	0	0	1	0	7	0
August	14.5	E.	37	E.	0	0	0	29	1	1	0	0	0	0	8	19	4	22	19	0	0	0	0	0	0	0	3	0
September	8.9	E.	44	S.	1	0	1	11	2	11	4	1	0	0	8	14	8	19	13	0	0	0	0	0	2	0	15	0
October	9.4	E.	33	E.	0	0	1	14	1	13	1	1	0	0	8	15	8	18	17	0	0	0	0	0	0	0	7	0
November	11.3	E.	33	E.	0	0	1	14	6	7	2	0	0	0	13	13	4	17	12	0	0	0	0	0	0	0	2	0
December	10.1	E.	39	E.	0	1	1	7	0	16	6	0	0	0	10	16	5	19	14	0	0	0	0	0	0	0	0	0
Year	12.3	E.	54	NE.	13	2	14	195	31	94	27	2	0	0	90	190	85	225	176	0	0	0	0	0	10	0	41	1

SAN LUIS OBISPO, CALIF.

[H_b=201 ft.; h_t=32 ft.; h_r=23 ft.; h_a=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.	0.01 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	4.9	N.	24	S.	0	17	9	0	3	6	9	4	8	6	13	9	9	9	9	0	0	0	2	0	0	4	0	0
February	4.8	N.	22	W.	0	12	6	2	1	5	3	2	21	4	15	9	4	6	5	0	0	0	2	0	0	1	0	0
March	4.7	NW.	20	W.	0	10	8	1	2	12	2	3	22	2	11	11	9	8	7	0	0	0	1	0	0	0	0	0
April	5.1	NW.	27	W.	0	13	5	0	2	1	1	8	27	3	20	8	2	3	2	0	0	0	0	0	2	1	0	0
May	4.9	NW.	19	W.	0	10	2	1	1	7	4	3	32	2	13	12	6	7	5	0	0	0	2	0	0	0	0	1
June	5.0	NW.	24	W.	0	8	5	2	1	1	6	5	29	3	25	4	1	0	0	0	0	0	0	0	3	0	0	0
July	3.5	NW.	12	NW.	0	8	1	0	2	7	7	8	26	3	24	6	1	0	0	0	0	0	0	0	1	0	0	0
August	3.3	NW.	15	NW.	0	15	2	1	2	1	5	4	31	1	27	4	0	0	0	0	0	0	1	0	0	0	0	0
September	3.8	NW.	18	NE.	0	14	3	1	2	9	5	1	24	1	20	6	4	3	3	0	0	0	2	0	3	0	1	0
October	4.2	NW.	30	NE.	0	18	10	0	2	2	1	0	23	6	17	11	3	3	2	0	0	0	1	0	5	0	3	0
November	3.5	N.	20	NE.	0	25	7	1	4	2	3	5	13	0	15	11	4	2	1	0	0	0	4	0	2	0	0	0
December	4.1	S.	26	SE.	0	20	4	0	5	13	5	2	9	4	12	8	11	11	11	0	0	0	2	0	0	1	1	0
Year	4.3	NW.	30	NE.	0	170	62	9	27	66	51	45	265	35	212	99	54	52	45	0	0	0	17	0	16	7	5	1

SANTA FE, N. MEX.

[H_b=7,013 ft.; h_t=57 ft.; h_r=49 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.	0.01 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	7.5	N.	35	N.	0	13	17	8	12	2	4	3	3	0	8	13	10	5	4	8	4	1	2	4	0	27	1	0
February	7.4	NE.	40	SW.	1	10	13	6	5	5	5	6	5	1	14	10	4	5	3	6	5	0	1	3	0	22	0	0
March	7.8	SW.	30	NW.	0	10	9	5	11	5	11	5	5	1	11	13	7	6	3	6	4	0	0	0	0	14	0	0
April	10.6	SW.	42	SW.	2	6	10	9	8	4	13	1	7	2	14	10	6	7	5	8	6	0	0	0	0	19	0	0
May	10.5	SE.	47	S.	1	4	9	10	16	4	15	3	1	0	11	11	9	11	10	0	0	5	0	0	0	2	0	0
June	7.6	SE.	38	SW.	0	1	8	17	19	2	10	2	1	0	14	10	6	8	7	0	0	0	0	0	0	0	12	0
July	6.4	SE.	30	NE.	0	6	9	16	20	6	3	1	1	0	7	17	7	16	10	0	0	0	0	0	0	0	24	0
August	6.0	E.	33	S.	0	5	14	20	13	2	7	0	1	0	4	21	6	15	11	0	0	0	0	0	0	0	24	0
September	6.6	SW.	24	S.	0	4	7	14	12	4	16	2	1	0	18	8	4	3	2	0	0	0	0	0	0	0	2	0
October	7.3	E.	30	W.	0	10	13	14	9	3	8	1	3	1	18	11	2	4	3	3	1	0	0	0	0	4	2	0
November	7.7	N.	33	SW.	0	8	21	4	15	1	4	4	3	0	22	6	2	0	0	1	0	0	0	0	0	14	0	0
December	6.9	NE.	30	NW.	0	12	19	7	9	2	6	4	3	0	10	9	12	9	5	6	6	0	0	3	0	20	0	0
Year	7.7	SW.	47	S.	4	89	149	130	149	40	102	32	34	5	151	139	75	89	63	38	26	6	3	10	0	122	71	0

SAULT STE. MARIE, MICH.

[H_b=614 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.	0.01 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	9.0	SE.	36	NW.	0	2	12	7	15	2	10	7	7	0	4	8	19	12	7	13	11	0	1	17	0	28	0	0
February	7.5	SE.	40	SW.	1	5	1	11	16	2	5	7	9	0	5	8	15	18	9	19	16	0	1	19	0	28	0	0
March	10.5	SE.	44	NW.	1	1	2	17	17	1	1	8	15	0	3	10	18	17	13	22	12	0	2	13	0	28	3	0
April	9.7	SE.	36	NW.	0	4	9	6	21	3	4	4	9	0	6	12	12	11	7	1	1	0	0	1	0	12	1	2
May	9.1	SE.	38	NW.	0	3	7	4	19	3	8	7	11	0	11	9	11	10	7	3	3	0	0	0	0	3	4	3
June	6.3	SE.	37	NW.	0	1	2	7	19	3	7	8	12	1	16	9	5	6	3	0	0	0	0	0	1	0	3	0
July	5.7	NW.	36	N.	0	3	2	11	10	3	7	6	19	1	14	10	7	10	6	0	0	1	0	0	11	0	11	0
August	4.6	NW.	28	NW.	0	0	5	11	13	3	9	5	15	1	10	12	9	10	10	0	0	0	0	0	0	0	3	0
September	8.8	NW.	50	NW.	1	4	1	4	23	3	4	5	15	1	8	8	14	14	9	0	0	0	2	0	0	0	7	1
October	8.2	SE.	41	NW.	1	7	7	9	15	2	10	2	10	0	5	9	17	12	8	2	2	0	0	0	0	2	2	0
November	8.5	E.	33	NW.	0	5	12	9	10	3	6	0	15	0	5	3	22	21	15	20	17	0	0	11	0	25	0	0
December	9.6	SE.	39	NW.	0	3	9	6	14	1	7	6	16	0	1	8	22	18	17	22	17	0	0	22	0	30	0	0
Year	8.3	SE.	50	NW.	4	38	69	102	192	29	78	65	153	4	88	106	171	157	111	102	79	1	6	83	12	156	34	6

Annual meteorological summary for the year ending December 31, 1921—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	30.138	30.670	29.720	47.0	58.1	53.4	62.3	45.0	53.6	72	30	41	45	44	79	63	73	0.267	0.315	0.308	1.48	0.73	6.0	5.8	3.7	6.1
February	30.023	30.290	29.660	48.9	60.5	55.4	64.3	46.9	55.6	82	36	44	48	48	84	66	78	.303	.356	.354	1.17	.44	5.0	4.8	3.1	4.7
March	30.097	30.370	29.850	60.6	72.8	64.8	76.2	57.9	67.0	87	46	55	54	57	82	55	77	.449	.434	.480	1.74	.95	3.7	5.9	4.1	5.3
April	30.017	30.260	29.700	62.4	72.6	66.7	75.5	57.6	66.6	85	42	54	54	52	75	54	61	.442	.445	.415	1.68	.86	4.6	5.2	3.9	4.6
May	29.917	30.200	29.680	67.7	76.5	70.7	79.9	62.6	71.2	95	47	60	60	61	78	58	74	.546	.542	.563	2.70	1.34	4.9	5.9	6.7	5.8
June	29.932	30.140	29.670	77.3	85.5	77.8	89.0	70.6	79.8	100	61	68	68	68	75	57	74	.697	.699	.702	5.19	2.31	3.6	4.4	6.0	4.3
July	29.969	30.170	29.760	77.3	84.5	78.1	87.9	72.4	80.2	95	69	72	73	72	86	69	83	.798	.807	.796	14.34	5.18	7.1	7.5	7.8	7.4
August	30.020	30.230	29.860	76.5	85.3	78.4	88.6	72.0	80.3	97	63	72	71	72	86	63	80	.785	.763	.775	8.88	4.27	5.1	6.2	5.4	5.5
September	29.985	30.140	29.790	76.4	88.0	80.5	90.9	73.0	82.0	97	69	71	70	72	85	56	76	.768	.727	.781	2.07	1.53	2.6	3.8	2.1	3.0
October	29.941	30.310	29.580	61.5	72.0	66.6	75.3	58.2	66.8	86	47	55	58	56	80	60	70	.456	.480	.470	.95	.58	3.8	4.9	4.0	4.9
November	30.030	30.266	29.590	56.3	68.1	62.3	72.0	53.9	63.0	82	38	52	54	53	86	64	74	.412	.444	.428	1.20	.53	4.5	6.2	4.6	5.7
December	30.043	30.410	29.580	49.4	61.4	56.8	65.6	46.7	56.2	76	36	44	49	47	83	66	72	.304	.373	.334	.61	.25	5.0	5.3	3.4	4.9
Year	30.009	30.670	29.580	63.4	73.8	67.6	77.3	59.7	68.5	100	30	57	58	58	82	61	74	.519	.532	.534	42.01	5.18	4.7	5.5	4.6	5.2

SCRANTON, PA.

[ϕ=41° 24′ N.; λ=75° 42′ W.]

January	29.270	30.010	28.600	25.5	31.4	30.6	36.8	21.9	29.4	50	1	22	24	23	84	74	70	0.127	0.138	0.132	2.02	0.64	6.3	6.0	4.9	5.1
February	29.188	29.647	28.490	27.6	34.3	33.3	39.1	24.2	31.6	64	8	24	26	25	85	73	70	.131	.146	.136	2.84	1.46	7.5	7.2	6.5	6.8
March	29.265	29.720	28.790	42.3	50.6	47.3	56.9	34.7	45.8	80	19	38	40	37	84	69	69	.249	.274	.242	3.17	.58	6.9	6.7	5.7	6.3
April	29.176	29.510	28.700	50.8	62.1	57.9	67.0	44.2	55.6	89	25	44	45	43	79	57	61	.303	.311	.292	2.88	.95	5.6	5.7	5.0	5.1
May	29.153	29.527	28.870	56.4	66.1	63.0	70.2	50.0	60.1	87	38	49	50	47	76	58	58	.355	.366	.337	2.28	.55	5.8	6.5	6.3	6.1
June	29.135	29.463	28.820	66.7	76.0	72.1	80.7	58.0	69.4	94	45	54	52	54	64	45	55	.433	.411	.442	1.61	.48	4.1	5.3	6.0	5.0
July	29.156	29.406	28.840	72.5	81.8	76.9	85.9	66.0	76.0	96	58	65	65	65	79	58	68	.630	.622	.623	4.90	1.51	5.5	5.9	5.5	5.5
August	29.236	29.490	28.880	63.9	74.0	70.1	78.5	57.1	67.8	90	47	56	55	57	76	54	64	.458	.449	.474	2.96	1.04	5.3	5.5	4.6	5.1
September	29.184	29.444	28.760	63.3	74.3	68.8	78.2	58.0	68.1	90	45	56	54	57	78	53	67	.464	.445	.482	4.38	1.56	4.1	5.8	4.9	4.9
October	29.134	29.651	28.612	45.9	57.5	54.1	63.3	41.8	52.6	75	28	41	43	42	84	61	65	.265	.287	.277	2.78	.67	5.2	5.4	3.4	4.8
November	29.183	29.012	28.640	39.2	43.9	42.1	47.3	35.2	41.2	74	25	35	37	36	85	77	79	.214	.230	.221	5.03	1.57	8.0	8.4	7.7	8.0
December	29.145	29.769	28.500	27.1	32.6	30.2	37.1	22.1	29.6	58	3	23	26	23	85	74	75	.130	.144	.134	1.83	.54	8.0	7.1	6.3	7.0
Year	29.185	30.010	28.490	48.4	57.0	53.9	61.8	42.8	52.3	96	1	42	43	42	80	63	67	.313	.319	.316	36.68	1.57	6.0	6.3	5.6	5.8

SEATTLE, WASH.

[ϕ=47° 38′ N.; λ=122° 20′ W.]

January	29.850	30.548	29.080	39.2	41.7	42.3	44.8	36.1	40.4	52	27	35	35	36	85	79	80	0.203	0.207	0.215	5.56	1.07	7.8	8.7	8.2	8.8
February	29.974	30.350	29.492	40.5	44.7	45.3	47.6	38.2	42.9	62	26	37	37	37	87	76	75	.227	.230	.233	4.82	1.16	9.0	7.9	7.3	8.1
March	29.930	30.340	29.440	40.9	45.5	48.1	50.3	38.8	44.6	58	31	38	38	37	87	76	67	.227	.228	.222	3.06	.92	7.3	7.7	7.2	7.9
April	29.963	30.310	29.580	42.6	50.0	51.8	54.5	40.5	47.5	74	32	38	37	36	85	64	60	.231	.227	.218	1.76	.44	7.4	6.7	7.0	7.4
May	29.904	30.230	29.540	46.9	55.4	59.5	61.5	45.6	53.6	75	39	42	42	42	84	62	55	.272	.273	.272	1.98	1.24	6.6	5.1	4.9	5.7
June	29.878	30.090	29.600	54.0	61.7	64.6	66.7	52.9	59.8	75	49	50	50	49	87	66	59	.363	.365	.355	1.29	.45	7.9	7.8	6.6	7.7
July	30.022	30.213	29.830	53.3	60.7	67.1	69.3	52.3	60.8	77	47	49	50	49	87	68	54	.349	.359	.356	.18	.18	6.1	3.9	2.7	4.7
August	29.937	30.180	29.630	55.1	61.9	67.7	70.0	53.9	62.0	80	50	52	53	52	90	73	59	.392	.402	.392	1.61	.87	5.5	5.2	3.6	5.3
September	29.928	30.260	29.460	51.5	58.7	61.7	63.8	50.1	57.0	70	43	48	48	47	90	70	61	.341	.344	.330	1.84	.66	6.3	6.9	5.7	6.5
October	29.912	30.250	29.450	49.6	54.3	56.4	59.3	47.1	53.2	69	36	48	50	50	93	87	82	.331	.366	.371	3.91	.65	6.4	6.5	5.6	7.2
November	29.882	30.233	29.180	44.2	46.6	46.5	49.6	41.1	45.4	61	28	42	44	44	92	90	90	.272	.293	.291	6.60	1.57	7.9	8.8	8.4	9.1
December	30.003	30.690	29.300	37.8	41.2	40.5	43.4	34.8	39.1	57	19	34	34	34	84	75	78	.204	.205	.205	7.25	3.52	5.4	7.9	6.5	7.4
Year	29.932	30.690	29.080	46.3	51.9	54.3	56.7	44.3	50.5	80	19	43	43	43	88	74	68	.284	.292	.288	39.81	3.52	7.0	8.3	6.1	7.2

SHERIDAN, WYO.

[ϕ=44° 48′ N.; λ=106° 57′ W.]

January	26.046	26.380	25.440	20.6	33.6	31.9	40.4	14.7	27.6	61	−5	14	19	18	77	54	57	0.083	0.100	0.096	0.54	0.19	4.6	5.1	4.5	3.9
February	26.050	26.500	25.370	24.5	40.1	36.4	44.8	19.0	31.9	69	−8	17	19	21	74	44	56	.096	.103	.149	.11	.04	3.7	5.3	5.4	3.1
March	26.010	26.460	25.601	27.5	42.6	41.0	49.1	22.1	35.6	71	5	19	21	21	74	45	47	.105	.111	.114	.65	.40	5.8	6.6	5.4	4.7
April	26.016	26.620	25.480	32.6	51.7	22.9	58.1	29.9	43.0	79	13	24	22	23	72	35	40	.133	.120	.126	.62	.30	4.5	5.6	6.0	3.9
May	26.024	26.400	25.600	46.1	59.7	61.5	64.4	42.3	53.4	81	22	39	40	39	79	52	51	.246	.256	.242	2.98	1.86	7.2	6.7	7.2	5.7
June	26.060	26.309	25.669	58.0	75.5	74.9	80.1	53.2	66.6	97	40	51	49	50	78	43	47	.378	.349	.374	1.94	.67	3.5	4.6	6.1	2.8
July	26.132	26.290	25.740	58.5	82.3	81.4	86.5	53.3	69.9	99	36	48	46	45	71	31	31	.346	.317	.305	.56	.30	2.4	2.9	2.8	1.4
August	26.152	26.430	25.810	53.9	81.2	78.9	85.4	50.7	68.0	94	38	44	42	43	72	26	30	.297	.271	.280	.24	.18	3.1	3.7	4.4	3.1
September	26.078	26.370	25.680	43.4	65.4	62.1	70.2	39.7	55.0	92	21	33	31	32	70	32	38	.193	.177	.186	.51	.28	4.5	4.3	4.8	4.3
October	26.137	26.560	25.710	35.9	62.5	57.5	67.8	30.5	49.2	84	18	24	25	25	64	26	30	.131	.133	.134	.24	.17	3.6	3.4	3.4	3.4
November	26.089	26.530	25.550	23.9	38.3	32.8	41.9	17.2	29.6	77	−7	17	20	20	76	52	64	.100	.111	.115	1.38	.54	6.1	5.8	6.3	6.5
December	26.157	26.530	25.650	19.1	28.8	23.7	34.2	11.1	22.6	66	−12	13	18	16	77	54	71	.083	.103	.094	0.54	.24	4.0	4.7	4.7	5.0
Year	26.079	26.620	25.370	37.0	55.1	50.3	60.1	32.0	46.0	99	−12	29	29	29	74	41	47	.183	.179	.185	10.31	1.86	4.4	4.9	5.1	4.0

Annual meteorological summary for the year ending December 31, 1921—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	12.7	SW.	38	W.	0	5	11	3	3	9	13	9	9	0	9	11	11	8	7	1	1	1	1	0	0	1	2	0
February	11.9	NW.	45	W.	2	8	7	2	3	13	6	11	6	0	13	6	9	9	6	0	0	0	2	0	0	0	0	0
March	12.1	S.	42	NW.	1	4	8	4	12	19	6	6	3	0	13	7	11	7	5	0	0	0	3	0	0	0	4	0
April	12.8	S.	58	SE.	2	4	6	2	8	12	7	5	16	0	11	11	8	5	4	0	0	0	0	0	0	0	4	0
May	10.8	NE.	39	NW.	0	1	13	9	6	11	6	9	7	0	11	9	11	13	10	0	0	1	0	0	4	0	5	0
June	10.6	SW.	44	NE.	2	3	10	8	9	8	10	10	2	0	14	10	6	11	9	0	0	0	0	0	16	0	11	0
July	10.3	SW.	43	N.	1	0	6	4	9	15	17	10	1	0	2	12	17	17	14	0	0	0	0	0	10	0	16	0
August	9.2	SW.	37	NW.	0	7	6	6	4	13	11	13	2	0	11	10	10	13	9	0	0	0	2	0	15	0	11	0
September	8.1	SE.	27	W.	0	8	4	3	11	11	8	10	5	0	19	11	0	5	5	0	0	0	0	0	16	0	6	0
October	11.8	NE.	43	NE.	1	8	19	4	4	3	10	3	11	0	15	5	11	9	5	0	0	0	2	0	0	0	0	0
November	11.1	W.	44	W.	1	6	6	5	6	3	12	16	6	0	7	13	10	5	4	0	0	0	4	0	0	0	2	0
December	12.3	W.	45	NW.	1	4	9	6	4	5	9	17	8	0	14	3	14	7	3	0	0	0	1	0	0	0	0	0
Year	11.1	S.	58	SE.	11	58	105	56	79	122	115	119	76	0	139	108	118	109	81	1	1	2	15	0	61	1	61	0

SCRANTON, PA.

[H_b=895 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	8.0	SW.	44	W.	1	8	6	1	4	9	14	7	13	0	11	14	6	12	7	13	7	0	3	7	0	26	0	0
February	7.3	SW.	33	W.	0	3	12	2	6	7	9	5	12	0	6	6	16	11	10	15	8	0	0	4	0	24	0	0
March	7.9	SW.	34	S.	0	9	5	0	8	9	13	3	14	1	7	13	11	17	15	5	0	1	0	0	0	12	3	0
April	6.9	NW.	26	SE.	0	5	10	2	4	8	8	0	20	3	13	7	10	11	10	3	2	0	0	0	0	5	0	0
May	7.2	NE.	38	NE.	0	1	18	0	7	10	12	1	13	0	6	14	11	11	10	0	0	0	0	0	0	0	5	2
June	6.3	SW.	27	SW.	0	5	5	3	2	6	17	5	16	1	11	12	7	9	6	0	0	0	0	0	3	0	9	0
July	5.0	SW.	30	SW.	0	8	8	3	7	11	14	2	8	1	10	10	11	9	9	0	0	1	0	0	7	0	12	0
August	5.6	SW.	23	SW.	0	10	11	0	6	12	12	4	6	1	13	9	9	7	7	0	0	0	0	0	0	0	1	0
September	5.8	SW.	36	SW.	0	13	5	2	3	9	16	2	9	1	10	13	7	9	8	0	0	0	0	0	0	0	4	0
October	6.6	SW.	31	SW.	0	8	4	1	2	12	24	3	7	1	11	13	7	10	9	0	0	0	1	0	0	2	1	0
November	7.5	SW.	30	W.	0	5	12	2	2	11	14	7	7	0	1	10	19	18	13	7	4	0	1	0	0	11	1	0
December	8.3	SW.	44	SW.	1	5	4	0	3	8	19	6	17	0	3	12	16	11	8	16	7	0	0	7	0	27	0	0
Year	6.9	SW.	44	SW.	2	80	100	16	54	112	172	45	142	9	102	133	130	135	112	59	28	2	5	18	10	107	36	2

SEATTLE, WASH.

[H_b=125 ft.; h_t=209 ft.; h_r=299 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	12.5	S.	59	S.	4	1	4	3	17	24	7	2	3	1	0	5	26	22	20	4	2	1	3	0	0	5	1	0
February	10.1	S.	44	SW.	2	8	4	4	14	14	6	4	2	0	1	7	20	17	14	4	4	1	3	0	0	4	0	0
March	8.3	SE.	45	SW.	1	11	5	5	17	6	6	6	6	0	2	8	21	17	12	6	4	0	4	0	0	2	0	0
April	9.9	S.	48	SW.	5	9	8	3	10	15	10	1	4	0	4	8	18	15	12	2	2	0	0	0	0	0	0	0
May	8.4	N.	42	SW.	2	16	5	6	10	9	2	4	10	0	7	13	11	10	8	0	0	0	0	0	0	0	0	2
June	8.3	S.	39	SW.	0	8	5	0	14	12	8	6	7	0	1	10	19	13	9	0	0	0	0	0	0	0	1	0
July	6.4	W.	25	N.	0	5	12	5	6	7	2	14	11	0	11	14	6	1	1	0	0	0	0	0	0	0	1	0
August	6.8	N.	34	S.	0	12	4	2	7	8	2	12	14	1	10	12	9	7	5	0	0	0	4	0	0	0	4	0
September	8.3	S.	47	S.	1	6	5	6	8	17	4	7	7	0	5	10	15	14	10	0	0	0	4	0	0	0	1	1
October	8.9	SE.	38	S.	0	16	7	3	17	12	0	3	4	0	6	7	18	15	13	0	0	0	8	0	0	0	1	0
November	10.3	SE.	47	S.	3	8	5	4	19	13	4	4	3	0	0	5	25	22	20	4	4	0	4	0	0	3	0	0
December	9.7	N.	43	SW.	1	26	8	1	15	4	4	1	3	0	4	11	16	12	10	5	2	0	1	3	0	10	0	0
Year	9.0	S.	59	S.	19	126	72	42	154	141	55	64	74	2	51	110	204	165	134	25	18	2	31	3	0	24	9	3

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	5.3	S.	44	W.	1	2	3	3	10	16	5	8	15	0	18	6	7	7	4	9	5	0	1	6	0	31	0	0
February	5.9	NW.	38	NW.	0	2	1	2	5	13	6	3	24	0	16	10	2	4	1	9	4	0	0	6	0	26	0	0
March	7.2	NW.	42	NW.	2	1	5	5	3	6	9	3	30	0	12	11	8	8	3	12	6	0	0	5	0	27	0	0
April	8.7	NW.	58	NW.	1	3	2	5	5	6	9	3	27	0	15	7	8	11	3	10	6	0	0	2	0	16	0	0
May	8.1	NW.	42	SW.	1	3	3	9	12	9	6	0	20	0	8	11	12	12	7	0	0	1	0	0	0	2	3	0
June	6.0	NW.	38	SW.	0	1	1	8	14	11	6	3	15	0	20	7	3	11	8	0	0	0	0	0	7	0	8	0
July	5.3	NW.	29	S.	0	5	5	9	13	14	7	2	7	0	26	3	2	7	4	0	0	0	0	0	12	0	8	0
August	4.6	NW.	27	SE.	0	1	0	6	15	13	3	2	22	0	19	11	1	3	2	0	0	0	0	0	7	0	5	0
September	5.9	NW.	32	N.	0	2	6	1	6	10	9	5	21	0	16	6	8	8	3	0	0	0	0	0	1	4	1	0
October	4.3	S.	35	NW.	0	3	1	1	4	19	6	5	23	0	19	7	5	4	3	0	0	0	0	0	0	17	0	0
November	4.3	NW.	37	NW.	0	6	1	4	6	24	3	3	12	1	4	14	12	7	7	7	5	0	1	9	0	28	0	0
December	4.6	S.	44	NW.	1	1	7	1	7	16	7	2	21	0	12	12	7	8	6	9	8	0	0	13	0	30	0	0
Year	5.9	NW.	58	NW.	6	30	35	54	100	157	76	39	238	1	185	105	75	90	51	56	34	1	2	41	27	181	25	0

Annual meteorological summary for the year ending December 31, 1921—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	29.928	30.300	29.570	47.4	56.6	55.6	62.2	44.5	53.4	77	30	42	45	43	84	68	64	0.290	0.319	0.290	4.18	1.42	5.3	4.7	3.3	4.8
February	29.819	30.180	29.290	45.9	57.4	58.3	63.6	43.7	53.6	79	29	40	42	41	82	59	55	.262	.265	.267	1.91	.80	5.4	4.1	4.5	4.7
March	29.790	30.170	29.450	59.1	69.3	69.0	74.7	56.7	65.7	85	34	55	54	54	86	62	63	.454	.452	.448	3.87	1.81	6.9	5.0	3.6	5.3
April	29.755	30.310	29.240	56.5	68.4	67.5	73.2	53.0	63.1	84	35	51	50	51	82	56	59	.396	.399	.405	6.24	1.67	4.3	4.0	3.9	4.4
May	29.736	29.960	29.450	67.0	78.9	78.0	83.7	63.5	73.6	94	49	60	57	59	78	48	53	.533	.487	.512	3.66	2.57	3.0	2.5	2.5	3.0
June	29.686	29.840	29.470	74.3	84.2	82.9	89.0	71.7	80.4	96	68	70	67	68	86	59	62	.725	.672	.680	3.34	1.01	4.4	3.8	3.7	4.4
July	29.741	29.940	29.524	76.2	86.4	86.1	91.6	74.1	82.8	98	70	72	70	70	86	59	60	.774	.734	.728	4.29	2.07	3.4	3.6	3.4	3.5
August	29.766	29.920	29.628	76.3	88.9	87.6	93.7	74.3	84.0	101	69	71	68	68	84	52	55	.756	.690	.669	.64	.31	2.7	3.3	2.8	3.1
September	29.738	29.890	29.590	73.9	86.9	82.9	90.5	72.9	81.7	96	58	71	69	70	91	56	66	.764	.705	.737	.56	.36	3.5	3.7	3.7	4.0
October	29.750	30.130	29.420	56.0	75.3	71.4	79.4	54.1	66.8	94	42	50	49	49	80	42	47	.372	.375	.366	.03	.03	2.1	1.5	1.0	2.0
November	29.816	30.070	29.380	54.0	69.1	66.1	74.2	51.1	62.6	87	35	49	50	49	85	52	56	.382	.388	.373	1.52	1.52	4.3	3.9	2.1	4.1
December	29.857	30.270	29.280	47.2	58.2	57.6	64.7	44.4	54.6	78	27	43	46	45	85	68	66	.295	.341	.324	1.92	.94	5.5	5.3	4.0	5.5
Year	29.782	30.310	29.240	61.2	73.3	71.9	78.4	58.7	68.5	101	27	56	56	56	84	57	59	.500	.487	.485	32.16	2.57	4.2	3.8	3.2	4.1

SIOUX CITY, IOWA.

[ϕ=42° 29′ N.; λ=96° 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	28.881	29.500	28.260	24.5	29.6	30.0	35.4	21.6	28.5	59	5	20	23	23	83	75	76	0.114	0.128	0.128	0.43	0.27	5.0	7.1	4.6	6.5
February	28.804	29.470	28.040	24.9	33.0	35.4	40.1	21.6	30.8	67	5	20	24	26	81	71	68	.114	.135	.145	1.05	.50	5.3	6.6	4.4	5.8
March	28.762	29.510	27.970	34.5	44.3	47.0	52.3	30.8	41.6	82	12	28	28	29	75	56	52	.158	.166	.175	.67	.29	6.6	5.8	5.0	5.7
April	28.690	29.418	28.000	44.2	56.8	58.4	63.2	40.8	52.0	85	23	36	37	36	72	50	48	.230	.231	.224	.99	.48	6.0	6.1	5.9	5.8
May	28.782	29.170	28.290	55.8	67.0	67.3	71.8	53.0	62.4	92	33	49	50	51	78	56	58	.367	.393	.407	3.96	1.30	6.0	6.5	6.1	5.7
June	28.732	29.210	28.400	69.4	82.2	83.1	86.0	66.0	76.0	96	53	62	60	62	76	49	50	.558	.530	.558	2.10	1.20	5.3	5.6	4.9	4.9
July	28.785	29.040	28.292	71.1	82.6	83.2	87.0	68.2	77.6	96	58	64	63	65	80	53	56	.608	.585	.615	2.06	1.10	5.4	4.8	4.7	4.6
August	28.799	29.140	28.486	64.7	77.9	78.5	82.9	62.8	72.8	93	53	60	61	62	85	58	58	.530	.548	.577	3.17	1.24	5.5	5.4	4.5	4.9
September	28.716	29.040	28.230	58.9	71.3	71.1	76.6	56.1	66.4	90	42	53	52	55	80	56	58	.422	.429	.456	4.59	1.30	4.6	5.0	3.7	4.7
October	28.740	29.170	28.270	46.2	61.0	59.0	65.9	44.5	55.2	82	31	35	39	39	67	48	50	.209	.254	.246	1.70	1.17	4.1	5.5	4.1	4.5
November	28.851	29.280	28.360	27.4	35.1	34.5	39.5	23.8	31.6	62	4	23	26	27	84	72	74	.128	.144	.160	.58	.24	5.6	7.2	4.7	6.9
December	28.888	29.380	28.270	22.4	31.6	30.0	36.8	18.9	27.8	64	−10	17	21	20	78	66	68	.099	.121	.113	.31	.22	4.0	5.4	4.1	5.8
Year	28.786	29.510	27.970	45.3	56.0	56.5	61.5	42.3	51.9	96	−10	39	40	41	78	59	60	.295	.305	.316	21.61	1.30	5.3	6.0	4.7	5.5

SPOKANE, WASH.

[ϕ=47° 40′ N. λ=117° 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	27.942	28.470	27.340	30.0	34.1	34.8	38.2	26.5	32.4	51	11	26	28	28	85	77	76	0.143	0.153	0.153	2.55	0.41	6.4	7.2	7.3	7.6
February	28.030	28.450	27.550	30.9	36.0	38.3	40.8	28.5	34.6	55	11	27	30	31	85	78	74	.155	.171	.178	1.10	.32	7.1	7.9	8.0	8.0
March	27.916	28.370	27.520	34.4	44.8	46.9	48.7	31.8	40.2	60	16	28	29	29	79	56	52	.159	.164	.163	1.15	.33	6.3	6.2	7.4	6.5
April	27.942	28.270	27.550	38.9	50.3	52.9	55.1	36.2	45.6	72	27	31	29	30	76	46	44	.176	.157	.172	1.16	.65	5.3	8.1	7.5	7.0
May	27.858	28.136	27.510	46.1	64.5	67.5	69.5	43.9	56.7	84	35	37	36	34	72	36	31	.224	.213	.202	.23	.09	4.6	5.3	5.4	5.2
June	27.889	28.066	27.610	56.1	71.7	74.8	77.1	54.5	65.8	92	45	46	45	42	69	40	33	.312	.203	.274	.42	.15	4.8	7.0	7.1	6.2
July	27.950	28.180	27.710	56.3	77.9	82.9	84.6	54.9	69.8	94	46	41	39	40	57	28	25	.260	.253	.274	.02	.02	1.9	2.0	1.9	2.0
August	27.927	28.130	27.690	58.4	77.9	82.4	84.0	56.5	70.2	95	47	46	46	44	64	33	28	.315	.309	.298	1.02	.46	3.7	3.4	3.9	3.5
September	27.959	28.230	27.530	46.5	61.4	63.3	65.2	43.9	54.6	80	33	36	36	35	70	41	36	.222	.222	.209	.44	.25	5.6	5.8	6.6	6.1
October	28.006	28.280	27.630	42.1	58.1	60.5	62.9	38.7	50.8	77	30	36	40	39	79	52	50	.214	.249	.247	.94	.37	2.0	4.6	5.5	4.9
November	27.970	28.370	27.370	33.5	39.9	40.7	43.5	30.2	36.8	60	−1	31	33	33	90	76	76	.179	.195	.198	2.40	.48	5.4	8.3	9.1	8.7
December	28.088	28.640	27.380	26.8	31.5	32.0	34.6	23.4	29.0	59	5	22	24	24	82	72	73	.128	.137	.142	1.19	.59	5.5	6.8	7.5	7.1
Year	27.956	28.640	27.340	41.6	54.0	56.4	58.7	39.1	48.9	95	−1	34	35	34	76	53	50	.207	.211	.209	12.62	.65	4.9	6.0	6.4	6.1

SPRINGFIELD, ILL.

[ϕ=39° 48′ N.; λ=89° 39′ 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	29.459	30.100	28.870	31.1	36.3	35.4	40.7	28.1	34.4	60	7	28	27	27	86	70	72	0.162	0.159	0.157	1.68	0.48	6.2	6.1	5.4	5.5
February	29.361	29.900	28.920	33.3	39.0	38.9	44.2	30.8	37.5	69	18	29	30	31	85	70	73	.169	.170	.180	.71	.49	8.0	7.3	5.7	6.8
March	29.348	29.932	28.890	42.6	53.7	52.3	60.5	38.7	49.6	81	20	38	40	41	85	61	66	.251	.268	.278	5.09	1.32	7.0	6.3	6.4	6.4
April	29.287	29.810	28.750	49.1	61.2	58.6	65.6	45.7	55.6	83	29	42	44	45	78	55	62	.291	.307	.316	4.75	1.81	5.8	5.6	5.8	5.8
May	29.335	29.640	28.950	60.7	73.3	70.7	77.1	56.4	66.8	93	39	51	50	53	71	46	55	.399	.392	.426	1.17	.42	4.8	4.5	5.6	5.0
June	29.276	29.620	29.090	72.0	83.8	79.1	87.3	67.8	77.6	95	49	65	65	66	78	55	66	.628	.640	.649	5.41	2.54	4.9	5.4	6.3	5.6
July	29.321	29.500	29.080	75.0	87.9	84.4	92.0	70.4	81.2	100	61	66	65	65	74	47	55	.645	.619	.629	1.67	1.19	2.7	4.0	3.3	3.4
August	29.343	29.632	29.040	68.4	80.2	78.1	84.6	65.1	74.8	95	53	63	66	66	84	62	68	.591	.649	.657	5.15	3.32	5.3	5.2	3.6	5.1
September	29.300	29.540	28.920	65.3	76.5	73.7	81.3	62.8	72.0	91	48	62	62	63	88	63	71	.553	.554	.600	4.33	1.21	6.3	5.9	4.2	5.3
October	29.289	29.760	28.800	47.6	62.9	58.7	67.1	46.5	56.8	81	34	43	43	45	84	50	62	.281	.289	.306	1.61	.57	3.8	3.5	3.5	3.6
November	29.356	29.790	29.000	38.1	46.2	44.1	50.0	35.9	43.0	67	25	35	36	37	88	70	76	.206	.221	.225	3.25	2.11	6.6	7.1	6.1	6.8
December	29.379	29.870	28.650	30.8	36.1	35.1	41.7	27.7	34.7	58	14	28	29	30	87	76	81	.254	.165	.170	2.71	1.08	6.0	6.3	4.8	6.2
Year	29.338	30.100	28.650	51.2	61.4	59.1	66.0	48.0	57.0	100	7	46	46	47	82	60	67	.362	.371	.383	27.56	3.32	5.6	5.6	5.1	5.5

Annual meteorological summary for the year ending December 31, 1921—Continued.

SHREVEPORT, LA.

[H_b=249 ft.; h_t=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. 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	8.0	SE.	29	W.	0	8	7	5	18	10	5	4	5	0	14	9	8	8	7	0	0	0	0	0	0	3	3	0
February	8.3	SE.	26	NW.	0	5	6	5	13	7	3	8	9	0	13	6	9	6	5	0	0	0	0	0	0	2	2	0
March	8.8	SE.	37	W.	0	7	3	1	21	20	4	2	4	0	8	14	9	11	8	0	0	0	0	0	0	0	6	0
April	8.4	SE.	34	NW.	0	10	1	5	22	8	2	4	8	0	15	5	10	12	8	0	0	1	0	0	0	0	8	0
May	6.1	SE.	26	S.	0	7	10	9	14	11	5	0	6	0	21	7	3	3	3	0	0	0	0	0	6	0	6	0
June	6.8	SE.	29	S.	0	0	7	6	20	14	11	1	1	0	16	7	7	9	7	0	0	0	0	0	14	0	9	0
July	5.8	SW.	26	E.	0	6	3	12	9	11	13	2	6	0	19	7	5	6	6	0	0	0	0	0	22	0	4	0
August	6.1	S.	24	E.	0	0	5	10	15	20	10	0	2	0	23	4	4	3	3	0	0	0	0	0	25	0	5	0
September	5.9	SE.	25	SE.	0	1	2	8	25	23	1	0	0	0	15	10	5	8	3	0	0	0	0	0	21	0	4	0
October	6.1	N.	26	W.	0	14	4	10	13	8	4	6	2	1	23	7	1	1	0	0	0	0	0	0	2	0	3	0
November	7.3	S.	33	NW.	0	5	3	2	9	15	7	3	15	1	13	12	5	2	1	0	0	0	0	0	0	0	2	0
December	7.3	NW.	28	W.	0	4	4	5	12	8	11	2	16	0	12	7	12	7	4	0	0	0	0	0	0	4	4	0
Year	7.1	SE.	37	W.	0	67	55	78	191	155	76	32	74	2	192	95	78	76	55	0	0	1	0	0	90	9	56	0

* By eye observations at this station.

SIOUX CITY, IOWA.

[H_b=1,135 ft.; h_t=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.	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	10.7	S.	53	NW.	2	7	1	5	4	20	6	2	14	3	8	8	15	4	3	8	4	0	3	13	0	29	0	0
February	11.4	S.	52	NW.	4	9	5	5	5	12	3	4	13	0	6	13	9	6	6	4	4	0	2	8	0	25	1	0
March	13.7	S.	53	NW.	6	14	5	3	5	17	2	4	12	0	11	10	10	6	5	3	1	0	0	2	0	19	1	0
April	15.2	S.	54	NW.	7	7	7	4	8	15	2	6	11	0	10	8	12	8	6	1	0	1	0	0	0	6	2	0
May	11.8	S.	48	SW.	3	11	13	5	9	16	1	1	5	0	6	14	11	13	10	0	0	0	0	0	1	0	5	2
June	9.1	S.	43	SW.	1	4	5	5	10	27	3	2	3	1	9	17	4	5	5	0	0	0	1	0	9	0	3	0
July	9.8	S.	50	NW.	1	8	6	3	4	29	3	2	7	0	11	14	6	9	7	0	0	0	1	0	7	0	7	0
August	9.9	S.	40	NW.	1	9	11	8	12	15	1	0	6	0	10	14	7	11	9	0	0	0	0	0	4	0	6	0
September	11.2	S.	43	NW.	3	7	7	8	10	8	6	3	8	3	11	11	8	9	8	0	0	0	0	0	1	0	6	0
October	12.5	N.	52	NW.	3	15	7	6	8	13	1	3	9	0	13	11	7	6	5	0	0	0	0	0	0	1	2	0
November	9.9	S.	32	S.	0	12	7	4	8	13	0	2	14	0	8	5	17	8	6	12	8	0	2	10	0	24	0	0
December	12.2	NW.	53	NW.	5	14	5	1	4	10	2	3	23	0	8	12	11	2	2	6	2	0	1	13	0	23	0	0
Year	11.4	S.	54	NW.	36	117	79	57	87	195	30	32	126	7	111	137	117	87	72	34	19	1	10	46	22	127	33	2

SPOKANE, WASH.

[H_b=1,929 ft.; h_t=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.	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	SW.	38	SW.	0	1	4	6	9	7	30	4	1	0	2	10	19	21	16	17	13	0	1	4	0	26	0	0
February	5.7	SW.	25	S.	0	2	7	4	4	12	24	2	1	0	3	4	21	13	10	7	6	0	2	3	0	17	0	0
March	8.8	SW.	30	SW.	0	2	6	6	0	4	27	9	8	0	5	14	12	11	7	9	6	1	1	2	0	15	0	0
April	7.7	SW.	33	SW.	0	2	5	3	3	4	31	6	6	0	2	16	12	10	8	6	0	2	1	0	0	5	0	0
May	6.9	SW.	33	W.	0	6	13	6	2	7	13	11	4	0	10	12	9	5	3	2	0	1	0	0	0	0	0	4
June	7.1	SW.	30	S.	0	4	3	6	3	15	22	3	4	0	5	17	8	6	3	0	0	0	0	0	1	0	4	0
July	6.6	SW.	29	SW.	0	1	3	3	2	8	30	8	7	0	25	3	3	1	0	0	0	0	0	0	9	0	0	0
August	6.1	SW.	39	SW.	0	4	7	4	4	11	22	4	5	1	17	12	2	6	6	0	0	0	0	0	8	0	4	0
September	7.7	SW.	39	SW.	0	1	7	9	4	12	16	5	3	3	6	10	14	7	5	0	0	0	0	0	0	0	0	0
October	5.0	SW.	31	SW.	0	3	14	8	2	10	21	2	2	0	12	7	12	8	8	0	0	0	0	0	0	3	0	0
November	5.8	SW.	32	SW.	0	6	15	4	1	14	13	6	1	0	0	5	25	14	11	10	8	0	7	4	0	14	0	0
December	5.9	NE.	46	SW.	1	6	22	8	1	4	10	6	5	0	4	9	18	13	8	14	8	0	2	13	0	26	0	0
Year	6.8	SW.	46	SW.	1	38	106	67	35	108	259	66	47	4	91	119	155	115	85	65	41	4	14	26	18	106	8	4

SPRINGFIELD, ILL.

[H_b=636 ft.; h_t=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.	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	S.	27	NW.	0	6	5	3	9	11	11	10	7	0	7	11	13	10	7	6	5	0	2	7	0	21	0	0
February	8.8	W.	27	W.	0	6	7	6	5	9	6	10	7	0	6	4	18	6	3	6	2	0	2	2	0	18	0	0
March	10.7	S.	34	SW.	0	8	4	4	9	21	5	2	9	0	6	9	16	16	12	1	1	1	0	0	0	7	8	0
April	10.5	S.	39	NE.	0	5	2	3	11	19	7	9	4	0	8	10	12	13	9	3	1	1	0	0	0	2	5	0
May	7.4	S.	23	NE.	0	9	6	4	6	14	10	5	8	0	10	13	8	9	5	0	0	0	0	0	6	0	4	1
June	6.7	W.	23	E.	0	1	8	10	11	6	13	8	3	0	7	16	7	11	10	0	0	0	0	0	12	0	16	0
July	5.8	S.	33	W.	0	10	9	4	3	14	5	6	11	0	17	12	2	6	4	0	0	0	0	0	24	0	6	0
August	7.0	S.	33	NW.	0	4	6	10	9	15	8	6	4	0	10	14	7	10	8	0	0	0	0	0	8	0	9	0
September	7.2	S.	27	NW.	0	4	8	6	6	15	12	5	3	1	8	14	8	11	9	0	0	0	2	0	1	0	11	0
October	8.7	S.	30	W.	0	4	2	2	11	16	8	10	9	0	17	9	5	7	5	0	0	0	1	0	0	0	3	0
November	8.1	S.	26	NW.	0	8	5	2	11	8	5	8	13	0	5	10	15	10	6	2	2	0	4	0	0	9	4	0
December	9.5	W.	29	NW.	0	7	7	1	8	8	10	10	11	0	10	6	15	8	5	6	3	0	2	6	0	22	0	0
Year	8.3	S.	39	NE.	0	72	69	55	99	156	100	89	89	1	111	128	126	117	83	24	14	2	13	15	51	79	66	1

Annual meteorological summary for the year ending December 31, 1921—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	28.725	29.180	28.240	35.6	42.6	40.8	47.6	32.1	39.8	68	15	30	31	32	82	67	73	0.181	0.190	0.194	1.36	0.60	5.5	6.2	6.4	6.1
February	28.638	29.060	28.180	35.6	44.1	45.4	51.9	33.0	42.4	75	19	30	30	31	81	59	58	.171	.176	.179	0.85	.40	5.1	3.9	4.5	4.0
March	28.622	29.200	28.240	47.1	56.6	55.2	63.4	42.3	52.8	82	20	42	44	44	82	65	69	.287	.318	.314	7.35	3.00	4.6	5.3	6.0	4.6
April	28.581	29.150	28.150	49.9	59.4	58.3	65.0	46.3	55.6	82	27	42	43	43	75	56	60	.285	.295	.300	4.79	1.83	4.7	4.6	5.0	4.7
May	28.631	28.890	28.300	60.2	70.0	69.5	74.6	56.3	65.4	88	36	53	55	56	78	60	65	.421	.444	.470	4.06	2.18	3.0	4.5	5.6	3.3
June	28.577	28.790	28.310	69.9	78.0	75.2	82.2	66.2	74.2	88	56	66	66	68	87	68	79	.636	.641	.682	9.68	2.89	4.0	5.2	6.2	4.4
July	28.639	28.800	28.383	74.0	83.7	83.1	87.8	70.6	79.2	94	66	67	65	68	79	55	60	.669	.630	.681	.70	.42	2.2	3.7	4.0	2.2
August	28.648	28.810	28.460	71.2	80.9	79.5	85.7	68.3	77.0	96	61	66	67	69	85	65	71	.652	.671	.706	7.59	2.79	4.7	4.3	5.3	5.4
September	28.608	28.782	28.390	68.2	79.8	75.7	83.1	65.5	74.3	90	46	65	65	65	91	63	70	.636	.644	.628	3.90	1.70	4.7	5.0	5.1	3.7
October	28.595	29.000	28.220	49.7	63.7	61.3	69.5	48.1	58.8	83	36	41	41	42	74	47	52	.266	.270	.281	2.55	1.28	1.9	2.3	2.4	2.1
November	28.641	28.960	28.310	41.8	53.0	51.0	58.8	38.0	48.4	76	23	36	37	38	80	59	64	.218	.238	.240	2.46	1.28	5.2	3.7	4.9	4.2
December	28.683	29.080	28.110	34.1	41.4	40.4	46.8	30.0	38.4	68	12	29	31	32	84	70	74	.165	.182	.186	1.92	.82	5.0	4.5	4.5	5.6
Year	28.632	29.200	28.110	53.1	62.8	61.3	68.0	49.7	58.9	96	12	47	48	49	82	61	66	.382	.391	.405	47.21	3.00	4.2	4.4	5.0	4.1

SYRACUSE, N. Y.

[ϕ=43° 02′ N.; λ= 76° 10′ W.]

January	29.480	30.260	28.860	24.8	28.8	....	34.8	19.8	27.3	51	−9	18	19	....	75	66	....	0.108	0.112	.....	1.02	0.20	8.1	7.1	....	7.3
February	29.405	29.860	28.800	26.7	31.1	....	35.4	21.8	28.6	59	6	20	22	....	77	69	....	.115	.123	.....	2.47	1.21	7.9	8.0	....	7.9
March	29.456	29.970	29.020	40.5	43.8	....	51.8	32.1	42.0	80	7	30	32	....	67	64	....	.189	.196	.....	2.92	.55	7.2	7.5	....	7.2
April	29.398	29.674	28.940	49.6	57.7	....	62.5	43.6	53.0	83	24	39	40	....	69	55	....	.258	.262	.....	2.90	1.30	6.3	6.5	....	6.3
May	29.390	29.689	29.120	55.5	62.5	....	67.5	49.6	58.6	87	35	45	46	....	69	57	....	.313	.330	.....	2.27	.93	5.3	5.8	....	5.3
June	29.354	29.730	29.010	64.8	72.0	....	76.3	57.4	67.1	89	41	53	53	....	66	53	....	.424	.426	.....	3.83	2.75	5.4	6.1	....	5.4
July	29.355	29.575	29.087	74.2	81.5	....	85.5	67.8	76.6	97	57	67	67	....	78	62	....	.659	.668	.....	4.44	1.12	5.9	5.8	....	6.3
August	29.437	29.600	29.010	65.5	72.5	....	76.7	60.0	68.4	89	49	56	55	....	72	55	....	.457	.438	.....	2.39	1.05	4.4	5.0	....	5.0
September	29.372	29.680	28.870	63.6	72.0	....	76.2	58.3	67.2	89	48	55	55	....	75	57	....	.452	.451	.....	1.55	.51	5.7	5.5	....	5.6
October	29.327	29.820	28.800	47.7	54.7	....	59.5	43.5	51.5	73	29	40	42	....	76	63	....	.253	.271	.....	3.10	.80	6.5	6.5	....	6.6
November	29.402	29.880	28.920	36.8	40.2	....	42.9	32.1	37.5	74	22	32	34	....	83	77	....	.191	.201	.....	6.58	1.54	7.8	8.7	....	8.8
December	29.339	29.966	28.704	25.3	28.6	....	34.4	19.8	27.1	58	−5	19	21	....	77	71	....	.110	.115	.....	.95	28	8.6	8.5	....	8.0
Year	29.393	30.260	28.709	47.9	53.8	....	58.7	42.2	50.4	97	−9	40	40	....	74	62	....	.294	.299	.....	34.42	2.75	6.6	6.8	....	6.6

TACOMA, WASH.

[ϕ=47° 16′ N.; λ=122° 23′ W.]

January	29.761	30.443	29.000	38.5	41.5	42.9	45.5	35.1	40.3	52	23	37	39	39	93	90	88	0.220	0.237	0.244	6.02	1.67	7.2	8.5	8.6	8.4
February	29.873	30.240	29.373	39.9	44.8	45.7	48.2	37.2	42.7	64	24	38	42	41	93	90	85	.236	.273	.267	5.53	1.17	7.2	7.2	8.1	8.1
March	29.830	30.210	29.330	40.0	46.4	49.4	51.7	37.5	44.6	63	30	38	42	42	94	86	78	.236	.271	.274	4.36	2.23	5.8	7.5	7.2	7.4
April	29.860	30.200	29.460	42.0	51.4	53.0	55.5	38.9	47.2	74	30	39	43	42	90	73	67	.242	.276	.269	2.20	.50	7.0	7.0	7.5	7.2
May	29.802	30.130	29.450	46.2	57.4	60.9	62.4	44.7	53.6	75	36	42	46	44	87	67	57	.273	.313	.293	2.10	1.06	5.9	5.0	5.3	5.9
June	29.779	29.966	29.500	53.9	62.7	65.7	67.6	52.3	60.0	77	46	50	53	51	88	72	62	.366	.407	.383	1.64	.49	7.0	7.8	7.2	7.6
July	29.930	30.100	29.738	....	61.9	69.5	71.1	51.7	61.4	79	47	....	51	52	....	68	54	.....	.371	.398	.01	.01	....	5.5	3.0	5.0
August	29.855	30.080	29.570	....	64.4	69.5	71.3	53.2	62.2	81	47	....	52	53	....	65	57	.....	.392	.402	1.18	.44	....	6.2	4.7	6.1
September	29.851	30.160	29.360	....	59.4	62.8	64.4	48.2	56.3	72	39	....	47	48	....	65	60	.....	.329	.340	1.59	.56	....	6.9	6.1	6.7
October	29.830	30.150	29.370	....	54.5	57.0	59.2	45.4	52.3	70	33	....	48	48	....	78	74	.....	.331	.343	2.77	.48	....	6.9	6.4	7.3
November	29.785	30.150	29.130	....	47.1	47.1	50.5	40.8	45.6	62	29	....	42	43	....	84	86	.....	.276	.287	6.82	1.28	....	9.1	8.7	8.5
December	29.895	30.600	29.130	....	40.0	41.1	43.4	33.4	38.4	60	22	....	36	38	....	85	87	.....	.217	.231	7.36	3.67	....	8.3	7.5	8.4
Year	29.838	30.600	29.000	....	52.6	55.4	57.6	43.2	50.4	81	22	....	45	45	....	77	71	.....	.308	.310	41.58	3.67	....	7.2	6.7	7.2

TAMPA, FLA.

[ϕ=27° 57′ N.; λ=82° 27′ W.]

January	30.165	30.510	29.880	55.7	69.3	63.3	72.4	53.8	63.1	80	43	51	52	54	86	57	72	0.392	0.417	0.427	1.07	0.98	4.5	4.1	3.8	4.8
February	30.065	30.260	29.820	57.2	68.8	64.5	73.1	55.2	64.2	83	43	53	56	55	86	65	72	.418	.462	.447	1.56	.68	4.5	4.8	4.4	4.7
March	30.109	30.270	29.930	65.6	79.0	72.4	82.2	63.1	72.6	88	46	61	59	61	86	52	68	.549	.520	.543	1.06	.42	3.4	3.4	4.2	3.5
April	30.038	30.250	29.840	67.2	77.9	72.6	81.6	62.2	71.9	89	46	58	55	58	73	47	62	.506	.465	.504	2.08	1.98	4.1	5.0	4.3	4.5
May	29.948	30.140	29.710	71.3	80.7	73.8	83.4	66.2	74.8	92	52	64	59	63	77	50	70	.609	.531	.595	9.41	3.37	4.6	5.5	4.8	5.2
June	29.959	30.100	29.720	78.6	85.7	80.1	89.6	72.5	81.0	94	66	71	66	70	77	53	71	.753	.648	.726	5.85	1.53	2.8	6.1	6.0	5.4
July	30.021	30.190	29.842	78.3	85.1	79.0	87.9	73.5	80.7	94	68	73	70	72	83	62	78	.802	.745	.772	11.19	4.12	5.6	7.2	7.6	6.9
August	30.036	30.200	29.860	79.1	87.5	80.6	90.5	73.9	82.2	94	67	72	69	72	80	55	75	.800	.719	.775	2.38	.93	3.2	6.6	7.5	6.9
September	29.991	30.130	29.840	78.4	87.8	81.6	91.4	74.0	82.7	94	72	72	68	71	82	53	71	.790	.688	.760	1.58	.55	2.0	5.8	4.3	4.4
October	29.894	30.120	29.773	70.3	79.7	74.1	82.4	66.8	74.6	90	54	65	66	65	83	64	74	.629	.642	.627	9.88	6.48	6.0	7.4	5.2	6.7
November	30.054	30.220	29.800	64.7	76.1	70.4	78.9	62.1	70.5	84	49	59	58	60	84	55	70	.524	.512	.526	1.58	1.02	4.0	4.8	3.8	4.4
December	30.073	30.290	29.800	59.7	71.2	66.3	74.7	58.3	66.5	80	48	56	56	57	88	60	72	.462	.455	.473	1.98	.76	3.5	4.9	3.2	4.6
Year	30.029	30.510	28.773	68.8	79.1	73.2	82.3	65.1	73.7	94	43	63	61	63	82	56	71	.603	.569	.598	49.65	6.48	4.0	5.5	4.9	5.1

Annual meteorological summary for the year ending December 31, 1921—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	11.6	S.	30	W.	0	3	5	6	15	13	2	8	10	0	9	9	13	6	5	4	1	0	0	6	0	17	1	0
February	11.1	S.	39	NW	0	7	4	3	9	10	4	7	12	0	15	4	9	7	4	2	2	1	1	0	0	16	0	0
March	13.0	S.	40	SW.	1	10	3	3	14	16	6	4	6	0	14	8	9	14	12	0	0	1	4	0	0	6	9	0
April	13.2	S.	39	S.	0	8	2	4	17	12	5	5	12	0	15	4	11	11	9	1	0	0	0	0	0	2	5	0
May	9.3	SE.	40	SE.	1	7	8	5	20	8	6	1	7	0	19	7	5	8	8	0	0	1	0	0	0	0	5	0
June	8.3	SE.	31	W.	0	3	4	4	19	14	10	4	2	0	11	12	7	17	16	0	0	0	0	0	0	0	12	0
July	7.6	SE.	24	SE.	0	2	13	7	16	9	10	2	3	0	25	5	1	3	2	0	0	0	0	0	9	0	6	0
August	8.7	S.	35	NW.	0	1	4	6	20	19	6	1	5	0	12	14	5	11	9	0	0	0	0	0	9	0	6	0
Setpember	9.4	S.	39	NW.	0	4	1	4	16	28	3	1	3	0	19	5	6	15	13	0	0	0	0	0	2	0	8	0
October	10.8	SE.	36	S.	0	8	3	0	22	9	7	2	11	0	24	3	4	7	5	0	0	0	0	0	0	0	0	0
November	11.0	SE.	31	NW.	0	8	3	5	16	10	2	2	14	0	14	9	7	10	6	1	0	1	0	0	0	8	4	0
December	11.2	NW.	36	E.	0	6	7	2	14	4	5	11	13	0	13	4	14	10	6	4	4	0	3	3	0	18	1	0
Year	10.4	S.	40	SW.	2	62	57	49	198	152	66	48	98	0	190	84	91	119	95	12	7	4	8	9	20	67	57	0

SYRACUSE, N. Y.

[H_b=597 ft.; h_t=97 ft.; h_r=65 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	13.0	S.	46	S.	4	5	0	0	11	13	12	8	13	0	4	8	19	14	9	13	8	0	0	11	0	25	0	0
February	11.4	S.	42	NW.	1	2	4	4	6	20	3	9	8	0	2	7	19	16	8	18	13	0	1	10	0	25	0	0
March	14.4	S.	47	S.	2	4	2	2	5	24	5	9	11	0	6	5	20	19	14	5	2	0	0	3	0	15	4	0
April	10.3	NW.	41	S.	1	9	4	4	5	12	6	9	11	0	7	10	13	12	10	3	1	0	0	0	0	6	1	0
May	9.4	NW.	33	W.	0	7	6	6	7	10	4	7	15	0	8	14	9	10	6	0	0	0	1	0	0	0	1	2
June	9.1	NW.	40	NW.	1	8	3	4	1	12	7	5	20	0	9	11	10	8	7	0	0	0	0	0	0	0	7	0
July	7.1	S.	34	NW.	0	2	3	8	4	27	6	5	7	0	4	15	12	11	10	0	0	0	0	0	7	0	12	0
August	9.7	S.	42	SW.	1	2	2	3	4	22	10	9	10	0	11	14	6	9	6	0	0	0	0	0	0	0	3	0
September	10.7	S.	52	SW.	2	2	0	6	4	23	9	12	4	0	8	11	11	10	7	0	0	0	1	0	0	0	6	1
October	11.1	S.	43	SW.	1	1	3	2	8	18	15	8	7	0	7	7	17	14	13	1	0	0	0	0	0	1	3	0
November	11.3	W.	44	NW.	1	4	2	11	4	12	5	14	8	0	0	6	24	20	17	13	10	0	1	3	0	18	0	0
December	13.3	S.	72	SW.	6	8	1	2	4	17	10	16	4	0	2	6	23	13	9	19	9	0	0	13	0	27	0	0
Year	10.9	S.	72	SW.	20	54	30	52	63	210	92	111	118	0	68	114	183	156	116	72	43	0	4	40	7	117	37	3

TACOMA, WASH.

[H_b=213 ft.; h_t=113 ft.; h_r=104 ft.; h_a=120 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	SW.	38	SW.	0	3	1	2	6	5	35	6	4	0	0	8	23	24	18	4	2	2	3	0	0	5	0	0
February	6.3	SW.	29	NE.	0	7	3	3	7	3	19	12	2	0	1	9	18	19	15	5	3	0	2	0	0	6	0	0
March	6.5	SW.	32	SW.	0	22	2	1	1	3	27	2	1	3	2	13	16	16	13	7	4	0	3	0	0	4	0	0
April	7.3	SW.	28	SW.	0	11	3	1	1	7	27	7	0	3	1	14	15	16	11	1	0	0	0	0	0	4	0	0
May	6.1	N.	30	SW.	0	17	3	2	0	2	16	12	6	4	9	13	9	9	8	0	0	1	0	0	0	0	0	1
June	5.5	N.	24	SW.	0	21	2	0	0	4	18	9	5	1	0	15	15	15	8	0	0	0	1	0	0	0	1	0
July	5.7	N.	23	SW.	0	23	2	0	0	0	0	4	2	0	7	21	3	1	0	0	0	0	0	0	0	0	0	0
August	5.1	N.	20	W.	0	21	0	0	0	0	2	7	1	0	3	21	7	7	5	0	0	0	1	0	0	0	2	0
September	6.1	SW.	33	SW.	0	12	2	0	1	1	10	4	0	0	3	16	11	13	10	0	0	0	1	0	0	0	0	0
October	5.8	N.	29	NE.	0	18	0	0	0	0	12	1	0	0	6	7	18	14	13	0	0	0	7	0	0	0	0	0
November	6.5	SW.	29	SW.	0	4	4	2	3	3	12	0	0	2	0	4	26	21	19	3	3	0	4	0	0	4	0	0
December	6.9	NE.	30	NE.	0	8	6	2	2	1	9	1	2	0	1	7	23	15	10	8	2	0	5	1	0	16	0	0
Year	6.3	SW.	38	SW.	0	167	28	13	21	29	187	65	23	13	33	148	184	170	130	28	14	3	27	1	0	39	3	1

TAMPA, FLA.

[H_b=35 ft.; h_t=79 ft.; h_r=71 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	6.1	NW.	25	SW.	0	9	16	2	2	2	8	6	16	1	11	14	6	7	2	0	0	0	3	0	0	0	0	0
February	5.7	NE.	24	NW.	0	6	11	0	2	5	7	12	12	1	11	10	7	7	5	0	0	0	6	0	0	0	4	0
March	6.2	NE.	22	E.	0	8	16	6	7	1	6	5	13	0	18	10	3	5	5	0	0	0	3	0	0	0	2	0
April	7.6	NE.	21	S.	0	5	14	6	6	2	10	5	11	1	13	9	8	4	2	0	0	0	0	0	0	0	2	0
May	6.7	SW.	24	E.	0	4	19	3	8	4	9	12	3	0	10	16	5	9	8	0	0	0	2	0	3	0	10	0
June	5.8	NE.	28	SE.	0	3	22	6	2	2	6	13	6	0	4	22	4	10	9	0	0	0	0	0	16	0	16	0
July	5.5	SW.	28	S.	0	4	6	4	13	7	11	10	4	3	4	18	9	19	16	0	0	0	0	0	11	0	21	0
August	5.9	NE.	26	NE.	0	3	22	8	12	4	3	7	4	0	1	25	5	11	10	0	0	0	0	0	21	0	20	0
September	5.9	NE.	25	NE.	0	3	20	4	7	2	6	5	3	0	12	17	1	9	8	0	0	0	0	0	27	0	9	0
October	5.5	NE.	68	S.	1	6	31	1	3	2	4	4	9	2	4	15	12	8	7	0	0	0	2	0	0	0	2	0
November	6.4	NE.	26	SE.	0	6	16	7	5	3	2	8	11	2	15	8	7	7	4	0	0	0	3	0	0	0	2	0
December	6.2	NE.	25	E.	0	7	10	4	4	2	6	6	13	1	10	16	5	6	6	0	0	0	9	0	0	0	2	0
Year	6.4	NE.	68	S.	1	63	222	51	71	36	78	93	105	11	113	180	72	102	82	0	0	0	28	0	78	0	90	0

Annual meteorological summary for the year ending December 31, 1921—Continued.

TATOOSH ISLAND, WASH.

[ϕ=48° 23′ N.; λ=124° 44′ W.]

Month.	Pressure.			Temperature.								Moisture.															
	Monthly mean.	Extremes.		Mean.						Extremes.		Dew point.			Relative humidity.			Vapor pressure.			Precipitation.		Cloudiness.			
		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	29.786	30.567	28.820	41.6	42.3	41.6	45.1	38.7	41.9	48	34	37	37	38	85	84	86	0.226	0.225	0.296	18.07	1.76	8.4	8.5	8.3	8.5
February	29.940	30.320	29.564	41.8	43.8	43.8	46.1	39.7	42.9	51	33	38	38	38	86	82	81	.232	.236	.235	13.04	3.28	6.4	7.5	8.0	7.6
March	29.933	30.352	29.430	41.9	45.7	45.3	47.4	40.0	43.7	51	32	38	39	40	86	78	81	.232	.241	.248	2.88	.62	6.5	5.4	6.5	5.9
April	29.964	30.329	29.540	43.4	47.6	47.5	50.3	41.5	45.9	65	36	40	40	42	88	77	81	.246	.251	.265	6.58	1.44	6.2	6.5	6.2	6.3
May	29.939	30.260	29.548	45.9	50.8	50.7	52.9	44.6	48.8	62	40	45	47	48	95	89	89	.296	.329	.331	2.24	.89	5.6	5.6	5.5	5.8
June	29.892	30.137	29.612	52.2	55.8	55.0	58.2	50.6	54.4	64	47	50	53	52	94	91	88	.366	.403	.393	6.78	1.77	8.5	7.1	7.0	7.5
July	30.070	30.243	29.909	51.5	54.6	55.1	56.5	50.5	53.5	60	49	50	52	52	95	90	89	.361	.381	.384	.22	.08	7.6	6.3	6.1	7.2
August	29.969	30.192	29.580	52.3	55.0	55.0	56.2	50.9	53.6	60	48	51	53	53	97	92	93	.380	.397	.401	4.12	1.47	6.4	5.7	4.9	7.9
September	29.925	30.266	29.450	52.3	55.3	55.6	57.8	50.4	54.1	62	46	50	51	51	92	87	86	.361	.376	.376	7.76	2.39	7.1	6.1	5.7	6.7
October	29.868	30.261	29.330	50.3	51.5	52.4	55.4	47.4	51.4	61	44	48	48	48	92	88	87	.333	.331	.341	17.36	3.68	6.0	5.8	5.7	6.9
November	29.832	30.240	28.980	45.4	47.2	46.4	50.3	42.7	46.5	62	30	43	43	43	92	86	88	.286	.289	.284	12.02	2.61	8.3	8.2	5.3	8.6
December	29.967	30.690	29.430	41.1	43.0	41.7	44.7	39.0	41.8	53	25	35	36	36	79	76	79	.215	.218	.217	9.30	2.60	5.9	5.5	6.6	6.8
Year	29.924	30.690	28.820	46.6	49.4	49.3	51.7	44.7	48.2	65	25	44	45	45	90	85	86	.294	.306	.308	100.37	3.68	6.9	6.5	6.3	7.1

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	29.573	29.920	29.240	48.2	60.9	.....	66.0	44.6	55.3	79	31	43	44	.....	83	58	.....	0.306	0.323	.....	2.17	1.48	6.5	6.1	.....	6.4
February	29.495	29.850	29.970	45.4	60.7	.....	67.4	43.3	55.4	81	31	39	41	.....	80	52	.....	.258	.279	.....	1.26	.74	4.5	5.3	.....	4.8
March	29.426	29.880	29.060	59.1	70.2	.....	74.7	56.6	65.6	85	35	56	57	.....	89	64	.....	.481	.489	.....	2.13	1.01	8.5	7.6	.....	7.4
April	29.398	30.000	28.930	56.8	70.4	.....	75.2	53.7	64.4	87	39	51	51	.....	83	54	.....	.411	.404	.....	6.78	1.52	5.7	5.1	.....	4.8
May	29.387	29.610	29.120	66.4	80.6	.....	84.4	64.2	74.3	92	51	62	62	.....	88	53	.....	.576	.557	.....	2.15	1.62	6.5	5.8	.....	5.6
June	29.329	29.480	29.110	73.3	83.6	.....	87.5	69.8	78.6	94	64	71	68	.....	92	62	.....	.757	.696	.....	4.46	1.34	7.5	7.3	.....	6.9
July	29.406	29.580	29.150	74.8	88.3	.....	91.9	72.5	82.2	97	68	72	68	.....	91	52	.....	.789	.691	.....	1.41	.94	6.4	5.6	.....	5.2
August	29.439	29.580	29.260	74.5	90.9	.....	95.2	73.1	84.2	100	66	71	66	.....	88	44	.....	.753	.639	.....	.91	.91	4.0	4.0	.....	4.0
September	29.395	29.560	29.190	73.1	85.7	.....	89.4	71.9	80.6	96	66	72	70	.....	95	61	.....	.781	.741	.....	25.87	23.11	5.8	7.1	.....	6.7
October	29.431	29.770	29.070	57.5	76.9	.....	80.8	55.4	68.1	93	45	51	51	.....	81	44	.....	.403	.413	.....	.20	.14	3.0	2.4	.....	2.5
November	29.494	29.760	29.040	54.6	71.0	.....	75.3	52.0	63.6	88	33	48	56	.....	79	50	.....	.376	.402	.....	.97	.48	4.9	5.7	.....	5.0
December	29.533	29.900	28.980	47.2	60.7	.....	67.5	43.3	55.4	81	24	40	41	.....	76	57	.....	.279	.290	.....	.91	.71	4.5	6.0	.....	5.4
Year	29.442	30.000	28.930	60.9	75.0	.....	79.6	58.4	69.0	100	24	56	56	.....	85	54	.....	.514	.495	.....	49.22	23.11	5.6	5.7	.....	5.4

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	29.521	30.170	28.930	31.7	38.0	36.8	42.2	28.8	35.5	57	10	28	28	28	84	69	69	0.161	0.169	0.161	1.67	0.57	6.7	7.2	5.1	7.0
February	29.417	29.970	28.960	33.2	39.9	39.8	44.8	30.9	37.8	70	18	29	31	32	85	73	72	.169	.190	.186	1.06	.78	8.1	8.2	5.7	8.0
March	29.413	29.980	28.920	44.7	55.0	55.2	62.4	40.3	51.4	80	22	40	44	42	86	68	62	.276	.322	.285	6.47	1.66	6.9	7.1	5.1	6.7
April	29.369	29.880	28.790	51.2	61.7	59.9	66.1	47.5	56.8	84	30	46	48	47	82	65	64	.321	.360	.336	1.97	.45	5.9	6.1	6.9	5.9
May	29.380	29.690	28.950	60.7	73.1	71.2	76.7	56.5	66.6	93	38	52	51	52	73	49	52	.411	.397	.409	1.97	1.43	4.4	4.4	4.9	5.0
June	29.337	29.660	29.100	72.5	84.1	81.4	87.9	67.9	77.9	95	51	64	63	64	75	50	57	.611	.591	.607	3.77	1.36	5.2	5.0	6.5	5.9
July	29.368	29.580	29.160	75.6	88.2	85.9	92.1	70.6	81.4	98	61	66	64	64	72	46	50	.637	.610	.607	2.91	2.14	3.5	3.9	4.1	4.4
August	29.412	29.620	29.160	68.1	79.5	78.0	83.5	64.4	74.0	90	54	62	62	64	83	57	63	.577	.571	.606	4.27	1.56	4.7	5.7	4.9	5.7
September	29.377	29.600	29.020	66.0	77.5	74.0	81.4	63.3	72.4	93	48	62	64	64	87	65	72	.571	.606	.609	9.78	3.57	7.0	6.6	5.2	6.5
October	29.356	29.850	28.970	48.9	61.9	58.5	66.5	46.9	56.7	80	36	42	43	44	78	52	60	.278	.283	.295	2.42	.75	4.3	4.1	3.0	5.0
November	29.406	29.840	29.070	40.6	48.5	47.3	53.9	37.6	45.8	69	23	36	38	38	84	70	72	.226	.245	.245	5.08	3.07	7.2	6.3	5.8	6.7
December	29.422	29.890	28.600	34.0	38.4	39.1	43.4	30.1	36.8	59	20	29	30	30	82	72	76	.168	.174	.173	3.43	1.97	7.3	7.1	6.7	6.9
Year	29,398	30.170	28.600	52.3	62.2	60.4	66.7	48.7	57.8	98	10	46	47	47	81	61	64	.367	.376	.377	44.80	3.57	5.9	6.0	5.3	6.1

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	29.908	30.330	29.560	48.0	60.8	56.9	65.7	45.6	55.6	74	35	43	46	47	83	60	70	0.296	0.329	0.335	2.39	0.33	4.8	4.8	3.4	5.4
February	29.797	30.070	29.470	48.5	60.4	58.2	66.1	46.8	56.4	78	36	45	45	45	86	60	66	.311	.321	.323	1.27	.39	5.3	5.1	3.8	4.9
March	29.851	30.130	29.600	59.3	74.0	69.6	78.9	57.4	68.2	87	42	55	57	56	87	58	64	.455	.485	.464	3.30	2.10	5.4	5.6	3.8	5.5
April	29.785	30.060	29.500	61.2	73.0	68.9	77.0	55.8	66.4	88	40	52	49	50	72	45	57	.411	.381	.402	3.09	1.44	4.7	5.0	3.2	4.7
May	29.694	29.910	29.450	67.4	78.3	73.7	81.9	62.4	72.2	96	45	59	57	59	75	51	63	.523	.491	.522	4.06	1.60	5.4	6.0	6.2	6.2
June	29.704	29.879	29.530	75.8	87.0	80.7	91.1	70.0	80.6	98	62	66	64	66	77	47	62	.667	.598	.641	3.51	.97	4.2	5.6	6.5	5.6
July	29.738	29.930	29.510	76.3	88.2	77.8	88.5	71.5	80.0	95	69	71	71	71	85	62	81	.766	.751	.761	6.71	2.90	6.5	7.9	7.3	7.9
August	29.788	29.949	29.610	76.2	86.8	80.0	90.6	71.4	81.0	97	61	71	70	71	84	59	75	.766	.746	.761	3.56	1.18	4.5	6.7	5.2	5.9
September	29.753	29.890	29.620	76.0	90.0	81.9	93.1	71.2	82.2	96	67	70	68	68	82	48	63	.736	.679	.682	1.60	.77	2.3	5.6	3.9	4.6
October	29.704	30.026	29.291	61.6	74.2	67.8	77.7	56.2	67.0	87	44	54	52	53	76	49	61	.441	.414	.423	1.68	.69	3.7	5.3	4.2	5.0
November	29.806	30.080	29.490	56.8	68.7	63.3	73.2	54.3	63.8	83	39	53	54	53	87	62	71	.425	.451	.431	3.11	1.09	5.6	6.1	2.9	5.7
December	29.821	30.088	29.460	50.4	63.9	59.1	68.2	47.5	57.8	78	36	44	46	46	81	55	63	.312	.335	.330	2.14	.92	5.4	4.4	2.8	4.9
Year	29.779	30.330	29.291	63.1	75.2	69.8	79.3	59.2	69.3	98	35	57	57	57	81	55	66	.511	.498	.506	35.39	2.90	4.8	5.7	4.3	5.5

Annual meteorological summary for the year ending December 31, 1921—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	23.3	E.	110	SW.	16	1	1	19	12	9	7	12	1	0	2	4	25	27	27	1	0	0	0	0	0	0	1	0
February	17.1	E.	63	E.	13	1	6	17	8	8	7	6	3	0	4	7	17	19	16	1	1	0	5	0	0	0	0	0
March	14.1	W.	49	W.	8	3	8	12	4	6	8	17	4	0	8	11	12	17	13	4	4	0	0	0	0	0	0	0
April	15.0	W.	52	S.	4	3	5	7	2	11	14	13	5	0	6	11	13	19	17	0	0	0	1	0	0	0	0	1
May	11.0	W.	44	SW.	1	2	6	3	3	7	18	10	6	1	10	9	12	13	8	0	0	1	6	0	0	0	0	0
June	10.8	S.	42	S.	1	1	3	11	3	14	9	13	6	0	2	10	18	18	15	0	0	0	3	0	0	0	0	0
July	10.1	W.	35	W.	0	0	0	0	0	18	16	25	3	0	4	9	18	9	1	0	0	0	10	0	0	0	0	0
August	10.2	S.	36	S.	0	2	2	5	1	27	20	3	2	0	3	6	22	16	10	0	0	0	16	0	0	0	0	0
September	12.0	S.	76	S.	3	1	8	8	4	25	6	6	2	0	4	10	16	16	14	0	0	0	5	0	0	0	0	0
October	17.8	S.	72	S.	9	2	11	12	8	20	5	2	2	0	6	7	18	19	17	0	0	0	7	0	0	0	3	0
November	19.2	E.	72	S.	14	0	7	23	8	6	8	5	3	0	0	4	26	23	19	3	0	0	2	0	0	4	0	0
December	26.6	E.	80	NE.	20	0	13	31	3	6	2	3	4	0	5	11	15	15	13	2	2	0	0	1	0	3	0	0
Year	15.6	S.	110	SW.	89	16	70	148	56	157	120	121	41	1	54	99	212	211	170	11	7	1	55	1	0	7	4	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	9.0	N.	27	S.	0	9	2	1	6	5	1	4	3	0	10	2	19	7	6	0	0	0	2	0	0	1	1	0
February	9.8	N.	30	N.	0	11	3	0	0	7	2	3	2	0	11	9	8	5	4	0	0	0	1	0	0	2	2	0
March	11.0	S.	36	S.	0	7	1	1	5	15	1	1	0	0	4	8	19	10	5	0	0	0	1	0	0	0	6	0
April	10.6	SE.	39	S.	0	8	0	0	3	10	4	1	3	1	12	8	10	14	9	0	0	2	0	0	0	0	7	0
May	8.0	SE.	52	SW.	2	3	4	0	7	14	2	0	1	0	9	14	8	4	3	0	0	1	0	0	3	0	4	1
June	8.0	SE.	33	N.	0	0	4	0	11	12	2	0	1	0	3	15	12	14	10	0	0	0	0	0	8	0	13	0
July	8.2	S.	56	E.	1	4	0	0	6	18	3	0	0	0	6	22	3	8	4	0	0	0	0	0	26	0	4	0
August	8.0	S.	25	S.	0	1	0	1	1	15	9	0	0	4	14	14	3	1	1	0	0	0	0	0	29	0	3	0
September	6.8	S.	31	S.	0	2	1	1	2	23	0	0	0	1	1	16	13	9	8	0	0	0	1	0	21	0	9	0
October	6.7	S.	26	NW.	0	7	2	0	0	7	7	3	4	1	23	6	2	3	2	0	0	0	1	0	2	0	2	0
November	7.5	S.	35	NW.	0	8	1	0	1	5	10	0	5	0	10	12	8	7	4	0	0	0	1	0	0	0	5	0
December	8.7	N.	31	N.	0	13	1	2	0	2	8	2	3	0	10	7	14	5	2	0	0	0	3	0	0	6	0	0
Year	8.5	S.	56	E.	3	73	19	6	42	133	49	14	22	7	113	133	119	87	58	0	0	3	10	0	89	9	56	1

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	10.9	S.	34	S.	0	9	5	4	6	19	6	6	7	0	5	9	17	11	10	9	4	0	1	6	0	21	0	0
February	10.4	NW.	37	NW.	0	5	8	3	4	11	10	4	11	0	1	9	18	6	3	8	1	0	2	3	0	16	2	0
March	13.0	S.	40	SW.	1	4	6	3	12	21	4	3	9	0	2	18	11	16	13	0	0	1	1	0	0	6	8	0
April	12.2	S.	39	NW.	0	1	3	0	13	20	5	2	16	0	8	10	12	12	10	3	0	0	0	0	0	3	5	0
May	8.5	SW.	29	N.	0	5	8	7	8	11	8	0	15	0	9	16	6	7	6	0	0	0	0	0	4	0	5	1
June	7.7	SW.	29	S.	0	1	9	9	10	9	11	2	9	0	8	13	9	9	6	0	0	0	0	0	13	0	11	0
July	7.4	N.	54	S.	1	12	9	3	5	12	10	3	7	1	9	20	2	7	5	0	0	1	0	0	23	0	8	0
August	7.7	S.	25	W.	0	5	10	5	11	18	8	1	4	0	8	17	6	10	7	0	0	0	1	0	1	0	6	0
September	8.3	S.	46	W.	1	5	8	5	8	18	10	1	5	0	4	15	11	15	14	0	0	0	1	0	1	0	11	0
October	9.9	S.	31	NW.	0	1	3	5	5	20	10	2	16	0	10	11	10	11	8	0	0	0	2	0	0	0	7	0
November	10.2	NW.	42	NW.	1	10	3	3	7	15	7	3	12	0	5	10	15	10	10	3	2	0	2	0	0	5	7	0
December	11.3	NW.	40	S.	1	8	6	1	5	13	9	5	15	0	6	9	16	9	8	6	2	0	1	2	0	20	1	0
Year	9.8	S.	54	S.	5	66	78	48	94	187	98	32	120	1	75	157	133	123	100	29	9	2	11	11	42	71	71	1

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	4.8	SW.	20	W.	0	11	10	6	0	11	7	7	8	2	12	7	12	7	6	0	0	0	3	0	0	0	3	0
February	4.8	SW.	19	SW.	0	9	9	6	3	12	4	4	7	2	12	7	9	7	5	0	0	0	0	0	0	0	1	0
March	4.5	SW.	25	SW.	0	7	7	13	0	11	9	8	3	4	9	11	11	8	7	0	0	0	0	0	0	0	5	0
April	4.6	SW.	27	S.	0	9	9	6	2	11	7	4	10	2	12	9	9	5	4	0	0	0	0	0	0	0	6	0
May	4.9	NE.	19	S.	0	8	12	9	0	4	7	6	13	3	7	10	14	11	11	0	0	0	0	0	7	0	7	0
June	4.2	NE.	25	S.	0	5	10	13	1	6	9	10	5	1	7	15	8	11	10	0	0	0	0	0	18	0	11	0
July	3.9	SW.	24	SW.	0	5	8	5	4	15	14	6	1	4	0	11	20	24	22	0	0	0	0	0	13	0	22	0
August	3.6	NE.	19	SW.	0	5	13	10	3	10	9	6	0	6	7	14	10	13	10	0	0	0	0	0	21	0	12	0
September	3.0	E.	27	E.	0	12	9	9	1	9	5	6	4	5	14	10	6	4	3	0	0	1	0	0	27	0	10	0
October	4.9	NE.	17	NW.	0	14	28	3	0	4	6	1	3	3	12	10	9	7	6	0	0	0	0	0	0	0	3	0
November	4.1	NW.	22	W.	0	2	10	8	3	8	7	6	12	4	8	9	13	7	6	0	0	0	1	0	0	0	6	0
December	4.3	NE.	18	SW.	0	8	12	10	1	3	11	10	4	3	14	8	9	8	6	0	0	0	2	0	0	0	3	0
Year	4.3	NE.	27	S.	0	95	127	98	18	104	95	74	70	39	114	121	130	112	96	0	0	1	6	0	86	0	89	0

Annual meteorological summary for the year ending December 31, 1921—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	29.455	30.230	28.850	29.1	33.8	32.9	38.1	25.4	31.8	54	9	23	25	25	77	69	72	0.133	0.143	0.145	1.53	0.53	6.4	7.1	4.9	6.2
February	29.362	29.890	28.980	29.5	34.2	33.1	38.1	25.8	32.0	63	17	24	27	26	80	72	75	.134	.148	.146	1.43	.49	7.3	7.9	7.0	7.4
March	29.378	30.020	28.770	40.9	47.2	46.2	54.1	35.0	44.6	78	19	35	37	38	78	69	73	.217	.240	.250	5.15	1.19	7.8	7.2	5.9	7.2
April	29.327	29.739	28.710	50.0	59.3	56.6	63.7	44.9	54.3	84	28	41	42	44	72	57	65	.273	.289	.306	5.34	1.41	5.0	5.3	5.2	5.3
May	29.341	29.643	29.080	58.9	67.6	64.6	71.7	53.3	62.5	90	38	50	51	54	74	58	69	.388	.407	.435	3.97	1.16	4.7	5.2	4.0	4.4
June	29.323	29.700	29.030	69.8	78.4	74.7	81.7	63.8	72.8	94	41	60	59	59	72	52	60	.537	.523	.530	1.34	.52	3.6	4.3	4.8	4.0
July	29.332	29.510	29.060	74.6	84.6	81.2	87.9	70.1	79.0	96	60	65	62	64	73	50	57	.629	.578	.595	2.86	.72	2.4	2.8	3.4	3.2
August	29.386	29.650	28.980	66.5	76.0	73.9	79.4	62.3	70.8	90	53	59	58	59	76	55	61	.505	.494	.511	2.71	1.28	4.5	4.6	4.0	4.3
September	29.327	29.640	28.820	65.1	75.0	70.9	78.5	61.3	69.9	91	49	58	58	59	79	57	66	.496	.498	.510	2.90	.91	4.6	4.7	3.9	4.7
October	29.293	29.770	28.890	48.5	58.3	54.8	61.8	45.0	53.4	78	34	42	43	43	79	59	66	.274	.285	.283	1.80	1.19	5.3	5.3	3.7	4.9
November	29.364	29.840	28.990	37.6	41.6	40.8	46.3	34.5	40.4	65	24	34	34	35	87	77	80	.206	.208	.212	3.34	.78	7.8	8.2	7.4	8.1
December	29.338	29.820	28.590	30.8	34.1	33.1	38.1	26.0	32.0	57	11	26	26	26	80	70	75	.142	.145	.149	1.66	.40	8.4	7.8	7.6	7.5
Year	29.352	30.230	28.590	50.1	57.5	55.2	61.6	45.6	53.6	96	9	43	44	44	77	62	68	.328	.338	.339	34.03	1.41	5.6	5.9	5.2	5.6

TONOPAH, NEV.

[ϕ=38° 04′ N.; λ=117° 14′ 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	24.078	24.440	23.700	27.0	34.6	34.8	37.9	24.4	31.2	51	7	21	22	21	76	58	56	0.110	0.116	0.111	0.22	0.12	4.5	4.8	6.2	5.7
February	24.138	24.530	23.820	33.0	42.6	44.7	48.3	29.6	39.0	66	8	19	22	22	58	47	44	.102	.119	.115	.28	.24	1.9	3.1	4.2	3.9
March	24.050	24.400	23.793	37.0	49.4	52.2	54.9	34.3	44.6	68	20	25	26	27	61	43	39	.133	.144	.147	.09	.06	3.1	4.0	4.7	4.5
April	24.006	24.370	23.500	37.0	51.3	52.1	57.0	33.6	45.3	76	16	21	23	21	54	36	33	.111	.121	.112	.07	.04	3.7	2.9	4.5	4.0
May	23.958	24.100	23.690	43.5	57.4	58.4	62.1	40.7	51.4	79	28	29	21	30	59	40	40	.161	.173	.174	2.50	.82	4.3	4.3	5.6	5.1
June	24.038	24.230	23.720	57.0	74.9	76.9	80.0	55.4	67.7	92	32	34	33	35	44	23	24	.199	.192	.203	.08	.03	1.8	2.1	3.6	3.2
July	24.132	24.260	23.920	65.1	82.5	84.8	87.8	63.2	75.5	95	45	33	33	34	32	17	18	.198	.192	.205	.01	.01	1.7	1.7	3.0	2.4
August	24.133	24.240	23.980	61.9	79.3	80.2	83.9	60.3	72.1	94	53	39	38	36	45	26	24	.244	.243	.220	.94	.40	2.1	1.9	3.4	3.0
September	24.081	24.260	23.791	55.4	71.2	74.6	76.3	53.4	64.8	84	43	27	30	28	39	23	20	.173	.169	.160	.25	.25	.7	.5	1.1	1.0
October	24.139	24.540	23.720	50.7	62.2	63.8	67.2	47.4	57.3	81	26	28	30	29	44	32	30	.158	.175	.165	.28	.16	2.4	1.9	3.7	3.2
November	24.157	24.400	23.850	40.4	50.9	50.2	54.2	38.0	46.1	68	14	21	22	21	45	32	32	.114	.117	.116	.06	.06	1.4	2.3	3.1	2.9
December	24.102	24.500	23.500	34.2	39.9	40.9	43.9	31.1	37.5	60	15	21	22	22	62	53	52	.119	.121	.122	1.08	.77	4.4	4.8	5.5	5.4
Year	24.084	24.540	23.500	45.2	58.0	59.5	62.8	42.6	52.7	95	7	26	28	27	52	36	34	.152	.157	.154	5.86	.82	2.7	2.9	4.0	3.7

TOPEKA, KANS.

[ϕ=39° 03′ N.; λ=95° 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				32.0			44.5	28.8	36.6	64	15										1.55	0.66				6.7
February				31.3			50.5	29.0	39.8	76	19										.23	.14				4.2
March				42.3			61.0	38.3	49.6	86	18										3.04	2.37				5.1
April				47.0			66.6	44.0	55.3	85	26										2.35	.77				4.9
May				58.9			76.6	55.8	66.2	92	36										3.71	1.27				5.9
June				69.7			85.4	67.0	76.2	94	55										6.62	3.57				5.5
July				73.1			90.0	69.7	79.8	99	63										4.09	1.48				4.5
August				70.1			87.4	67.7	77.6	99	60										9.73	4.92				4.2
September				65.9			84.3	62.4	73.4	98	42										5.13	1.48				5.2
October				49.7			72.6	47.9	60.2	89	34										.73	.42				3.6
November				35.6			54.8	32.7	43.8	75	20										.01	.01				4.9
December				28.6			44.0	24.8	34.4	70	5										.28	.20				5.4
Year				50.4			68.1	47.3	57.7	99	5										37.47	4.92				4.9

TRENTON, N. J.

[ϕ=40° 14′ N.; λ=74° 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	29.947	30.695	29.290	29.8	36.4	34.9	41.4	25.5	33.4	58	4	23	25	25	78	63	66	0.136	0.147	0.145	2.41	1.42	6.0	5.7	4.6	6.0
February	29.864	30.356	29.160	30.6	37.8	36.2	41.8	26.6	34.2	66	9	24	26	27	77	64	70	.136	.145	.154	3.44	1.70	6.8	7.0	5.2	6.4
March	29.944	30.420	29.470	44.8	55.1	52.0	61.3	38.7	50.0	83	24	39	44	43	80	67	71	.263	.319	.299	2.42	.67	5.0	5.4	5.5	5.8
April	29.837	30.290	29.340	52.1	61.1	58.1	66.9	46.2	56.6	80	29	46	51	48	80	71	72	.326	.392	.355	1.86	.88	6.5	5.9	4.5	6.0
May	29.794	30.234	29.450	57.7	65.8	61.2	70.5	50.1	60.3	88	42	50	52	51	76	62	70	.368	.397	.383	4.06	1.48	6.4	6.1	6.1	6.3
June	29.765	30.077	29.390	68.3	78.0	71.8	82.3	59.9	71.1	94	49	58	58	58	70	52	53	.498	.502	.494	4.39	3.26	4.7	4.8	4.8	4.9
July	29.787	30.050	29.420	73.8	82.6	76.7	86.1	67.6	76.8	95	61	58	67	67	82	61	74	.683	.669	.675	2.01	.70	5.6	6.5	6.4	6.2
August	29.879	30.100	29.490	67.4	76.0	71.1	79.2	61.2	70.2	92	54	50	59	60	78	57	69	.528	.516	.531	8.01	5.30	4.6	5.4	3.7	5.1
September	29.830	30.160	29.410	66.8	76.3	70.8	79.7	61.6	70.6	93	52	59	57	60	77	53	70	.516	.493	.531	1.09	.67	5.8	6.3	3.8	6.0
October	29.798	30.311	29.250	50.3	61.2	56.0	65.5	44.6	55.0	77	33	43	42	44	76	52	65	.284	.273	.297	.34	.10	3.9	4.9	2.2	4.7
November	29.849	30.290	29.310	41.4	47.6	45.5	51.6	37.5	44.6	76	27	37	38	39	84	72	78	.232	.248	.251	2.33	.70	6.5	7.2	6.2	7.1
December	29.828	30.500	29.130	30.4	36.7	34.4	40.8	25.1	33.0	61	9	25	29	28	80	73	75	.144	.166	.160	1.35	.50	5.5	6.2	4.1	5.9
Year	29.844	30.695	29.130	51.1	59.6	55.7	63.9	45.4	54.6	95	4	44	46	46	78	62	70	.343	.356	.356	35.73	5.30	5.6	6.0	4.8	5.9

Annual meteorological summary for the year ending December 31, 1921—Continued.

TOLEDO, OHIO.

[H_b=628 ft.; h_t=208 ft.; h_r=201 ft.; h_a=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	15.4	SW.	52	W.	3	6	5	2	5	10	16	8	10	0	8	8	15	12	7	14	6	0	0	8	0	25	0	0
February	14.0	SW.	51	W.	3	6	8	3	5	8	8	11	7	0	5	5	18	13	9	16	8	0	0	5	0	24	0	0
March	16.2	SW.	48	SW.	6	4	5	8	6	7	17	5	10	0	6	9	16	19	16	4	2	0	0	0	0	12	7	0
April	16.3	SW.	47	SW.	5	4	1	4	7	7	23	3	11	0	10	9	11	14	14	3	3	0	0	0	0	6	4	0
May	12.2	N.	44	SW.	1	12	3	11	8	4	10	5	9	0	14	9	8	9	7	0	0	0	0	0	1	0	7	1
June	11.0	NE.	39	W.	0	11	5	14	7	0	15	4	4	0	13	15	2	7	6	0	0	0	0	0	6	0	10	0
July	10.8	SW.	56	NW.	3	15	4	10	4	3	19	3	4	0	19	11	1	10	7	0	0	0	0	0	15	0	8	0
August	11.3	SW.	30	NW.	0	10	2	9	4	6	20	5	6	0	15	10	6	11	10	0	0	0	0	0	0	0	7	0
September	12.5	SW.	52	W.	4	5	3	6	7	5	20	4	10	0	12	12	6	13	11	0	0	0	0	0	1	0	9	0
October	15.2	SW.	56	SW.	2	4	4	6	2	4	25	10	7	0	13	6	12	10	6	0	0	1	0	0	0	0	2	0
November	15.0	SW.	50	SW.	5	11	7	2	6	6	15	5	8	0	2	7	21	15	10	7	4	0	1	0	0	8	3	0
December	15.2	SW.	64	SW.	6	6	2	1	6	8	17	10	12	0	3	10	18	11	9	14	6	0	0	5	0	27	0	0
Year	13.8	SW.	64	SW.	38	94	49	76	67	68	205	73	98	0	120	111	134	144	112	58	29	1	1	18	23	102	57	1

TONOPAH, NEV.

[H_b=6090 ft.; h_t=12 ft.; h_r=9 ft.; h_a=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	11.5	SE.	38	SE.	0	0	1	4	32	0	0	15	10	0	8	8	15	4	2	6	4	0	0	6	0	27	0	0
February	9.6	W.	44	NW.	1	1	0	0	18	3	2	19	13	0	14	11	3	2	2	4	2	0	0	3	0	17	0	0
March	9.9	SE.	42	NW.	2	2	1	1	25	2	4	11	16	0	9	18	4	3	1	4	3	0	0	0	0	13	0	0
April	12.7	NW.	45	NW.	5	0	0	0	18	1	2	12	27	0	13	15	2	3	1	5	3	0	0	1	0	12	0	0
May	9.1	SE.	36	NW.	0	1	1	1	23	2	5	12	17	0	6	21	4	8	7	4	3	0	0	0	0	6	1	0
June	7.5	W.	37	NW.	0	0	0	1	17	4	0	22	16	0	18	12	0	4	0	1	0	0	0	0	3	1	2	0
July	7.9	SE.	33	NW.	0	2	1	2	21	3	2	15	16	0	19	12	0	1	0	0	0	0	0	0	13	0	2	0
August	8.8	SE.	28	NW.	0	1	3	4	38	2	3	7	4	0	18	13	0	5	4	0	0	0	0	0	3	0	7	0
September	6.8	W.	25	SE.	0	1	1	0	19	6	3	15	14	0	24	6	0	1	1	0	0	0	0	0	0	0	1	0
October	7.0	SE.	26	SE.	0	0	1	6	32	6	0	10	7	0	17	13	1	4	3	1	1	0	0	0	0	3	2	0
November	6.6	W.	30	NW.	0	0	0	0	18	3	5	25	9	0	16	11	3	1	1	0	0	0	0	2	0	5	0	0
December	9.6	SE.	48	NW.	1	0	0	2	30	8	3	15	4	0	13	6	12	6	5	7	4	0	0	6	0	14	0	0
Year	8.9	SE.	48	NW.	9	8	9	21	291	40	29	178	153	0	175	146	44	42	27	32	20	0	0	18	19	98	15	0

TOPEKA, KANS.

[H_b=987 ft.; h_t=92 ft.; h_r=83 ft.; h_a=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	* N.	38	E.	0	4	1	3	3	7	3	6	4	0	5	11	15	6	4	4	1	0	2	6	0	24	0	0
February	11.0	N.	40	S.	1	4	3	3	0	5	2	8	3	0	13	9	6	5	2	2	2	0	2	1	0	22	0	0
March	13.5	N.	44	S.	3	7	3	1	4	8	4	0	4	0	11	10	10	9	6	2	1	0	2	0	0	8	4	0
April	14.0	S.	44	N.	3	3	0	1	4	6	7	4	5	0	11	7	12	11	9	1	1	0	0	0	0	4	5	0
May	10.4	S.	46	W.	3	6	0	2	7	7	3	1	5	0	11	11	9	5	5	0	0	1	1	0	3	0	5	0
June	8.2	S.	44	SW.	1	3	6	1	4	9	3	3	1	0	8	11	11	13	13	0	0	1	1	0	7	0	10	0
July	7.7	S.	35	NW.	0	6	1	1	6	11	2	2	2	0	10	15	6	7	7	0	0	0	0	0	19	0	8	0
August	9.5	S.	44	NW.	1	3	2	2	3	14	4	1	2	0	13	12	6	8	7	0	0	1	0	0	12	0	7	0
September	10.6	S.	34	S.	0	4	2	1	7	9	2	5	0	0	11	7	12	12	12	0	0	0	0	0	9	0	15	0
October	11.1	S.	38	NW.	0	4	1	0	4	9	5	3	5	0	16	8	7	7	4	0	0	0	0	0	0	0	2	0
November	9.6	N.	35	N.	0	8	0	4	2	3	5	5	3	0	10	13	7	1	0	2	0	0	0	2	0	15	0	0
December	10.8	S.	40	NW.	1	5	4	2	3	5	1	7	4	0	12	5	14	2	2	7	2	0	2	7	0	23	0	0
Year	10.6	S.	46	W.	13	57	23	21	47	93	41	45	38	0	131	119	115	86	71	18	7	3	10	16	50	96	56	0

* By eye observations at this station.

TRENTON, N. J.

[H_b=190 ft.; h_t=159 ft.; h_r=152 ft.; h_a=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	11.6	W.	44	W.	2	11	9	2	1	5	11	12	10	1	10	7	14	9	8	7	3	0	2	5	0	24	0	0
February	12.2	NW.	49	NE.	2	7	11	7	2	4	4	10	11	0	4	12	12	10	7	7	3	0	1	4	0	23	0	0
March	12.9	S.	48	NW.	5	11	5	9	5	14	10	4	4	0	7	13	11	13	9	1	1	0	3	0	0	6	5	0
April	11.9	SW.	49	SE.	1	5	2	8	8	11	13	2	11	0	10	6	14	13	9	3	1	0	3	0	0	2	2	0
May	11.0	NE.	45	NE.	2	10	11	8	5	6	14	7	1	0	5	13	13	11	7	0	0	0	1	0	0	0	4	1
June	10.1	SW.	58	N.	2	5	12	5	4	10	13	6	5	0	10	12	8	8	7	0	0	1	1	0	6	0	7	0
July	8.8	SW.	37	W.	0	6	7	7	1	12	15	7	6	1	10	7	14	8	8	0	0	1	1	0	9	0	9	0
August	8.8	W.	40	S.	1	3	10	2	8	8	10	10	11	0	10	11	10	10	9	0	0	0	3	0	1	0	5	0
September	8.7	S.	58	S.	1	11	6	5	5	17	4	9	3	0	8	10	12	7	4	0	0	0	5	0	2	0	6	0
October	10.5	W.	44	SW.	2	3	7	6	5	11	6	13	6	0	11	11	9	5	5	0	0	1	5	0	0	0	1	0
November	12.0	W.	44	W.	2	7	15	1	2	7	8	14	6	0	4	9	17	15	14	2	1	0	5	0	0	6	0	1
December	10.7	W.	48	W.	2	16	3	0	4	8	7	18	6	0	9	8	14	9	6	10	5	0	2	3	0	24	0	0
Year	10.7	W.	58	N.	22	95	98	60	50	113	115	117	80	2	98	119	148	118	93	30	14	3	32	12	18	85	39	2

Annual meteorological summary for the year ending December 31, 1921—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	27.303	27.720	26.770	24.2	34.2	31.2	38.7	19.4	29.0	57	−1	19	21	22	81	58	69	0.106	0.111	0.119	0.40	0.28	4.0	5.3	3.5	4.9
February	27.258	27.820	26.620	25.8	38.9	35.7	43.2	20.5	31.8	66	−5	21	24	25	81	57	66	.115	.131	.138	.27	.26	3.1	4.7	4.0	4.5
March	27.218	27.850	26.700	30.9	46.2	45.4	53.2	26.0	39.6	80	11	24	25	25	76	48	48	.132	.134	.140	.91	.75	3.5	5.6	5.3	5.0
April	27.183	27.850	26.540	36.1	54.0	54.0	59.3	32.5	45.9	83	11	29	28	30	77	43	45	.166	.161	.171	1.17	.51	4.9	4.6	5.0	5.4
May	27.262	27.680	26.810	50.0	62.2	63.6	67.9	46.2	57.0	87	33	44	43	45	82	54	55	.301	.296	.322	2.28	.85	5.1	6.1	6.5	6.2
June	27.252	27.640	26.843	64.0	80.9	80.9	85.2	59.9	72.6	99	47	56	53	53	78	42	42	.462	.420	.419	1.65	1.23	3.6	4.1	3.8	4.4
July	27.304	27.510	26.660	67.1	82.3	81.9	87.2	63.2	75.2	98	53	58	56	57	75	44	46	.490	.459	.468	3.42	1.68	3.2	3.2	4.1	3.8
August	27.317	27.620	27.051	61.7	78.8	77.9	83.5	58.7	71.1	98	46	57	56	57	85	48	51	.472	.458	.471	1.60	.55	3.5	4.4	3.5	4.1
September	27.245	27.510	26.770	52.5	70.1	67.0	74.6	48.7	61.6	95	33	45	42	45	76	41	48	.312	.283	.315	2.05	1.17	4.0	3.4	3.4	3.9
October	27.271	27.660	26.820	40.4	62.5	57.2	67.8	35.7	51.8	84	22	30	32	32	67	35	41	.166	.180	.180	1.27	1.10	2.2	3.3	2.7	2.9
November	27.296	27.738	26.780	26.6	39.4	34.2	44.2	21.5	32.8	72	0	22	24	25	82	61	71	.121	.135	.138	.68	.34	5.3	6.9	4.5	6.2
December	27.354	27.730	26.820	21.3	33.9	27.8	37.9	15.2	26.6	66	−16	18	22	21	86	65	75	.104	.125	.116	.74	.61	3.7	5.1	4.4	4.0
Year	27.272	27.850	26.540	41.7	57.0	54.7	61.9	37.3	49.6	99	−16	35	36	36	79	50	55	.246	.241	.250	16.44	1.68	3.8	4.7	4.2	4.7

VICKSBURG, MISS.

[ϕ=32° 22′ N.; λ=90° 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	29.935	30.300	29.570	47.8	56.5	55.6	62.1	45.4	53.8	74	33	43	45	43	84	67	65	0.293	0.316	0.297	3.55	1.20	6.1	5.4	3.7	5.5
February	29.827	30.160	29.390	46.9	56.3	57.6	62.8	45.2	54.0	76	31	42	45	45	84	68	64	.289	.319	.316	3.24	1.00	5.0	4.7	3.0	4.8
March	29.831	30.130	29.560	58.8	70.6	68.7	76.2	57.1	66.6	85	34	56	60	58	90	71	69	.464	.547	.494	9.49	3.65	7.3	6.6	4.9	6.6
April	29.792	30.260	29.330	56.3	68.0	66.6	72.8	53.5	63.2	85	39	52	56	56	85	67	71	.405	.481	.481	11.49	3.64	3.8	5.2	4.7	5.0
May	29.750	29.950	29.490	66.0	77.6	76.0	81.2	63.0	72.1	95	47	60	65	65	82	65	69	.540	.621	.625	1.84	1.66	3.7	5.4	3.4	4.4
June	29.721	29.880	29.560	74.5	85.5	81.3	88.8	71.7	80.2	93	66	70	70	70	86	60	70	.727	.724	.735	1.90	.36	4.0	5.8	5.7	5.6
July	29.758	29.933	29.576	75.7	86.5	83.2	90.5	73.6	82.0	97	66	72	73	73	88	64	73	.775	.816	.815	4.72	1.89	3.9	5.7	4.8	4.9
August	29.795	29.926	29.660	75.6	86.7	83.6	91.1	74.1	82.6	96	68	71	74	73	87	66	71	.771	.832	.805	1.35	.41	4.0	4.7	5.0	4.7
September	29.770	29.910	29.660	74.0	85.8	81.5	89.6	72.5	81.0	96	63	71	72	72	91	65	74	.767	.794	.784	1.72	1.13	3.7	5.3	5.2	5.2
October	29.760	30.090	29.470	56.1	72.7	68.4	78.6	54.6	65.6	88	42	49	56	54	78	57	60	.363	.466	.425	.86	.47	2.7	2.3	1.5	2.5
November	29.834	30.060	29.520	53.8	67.3	64.9	72.6	52.1	62.4	84	36	49	52	50	85	60	61	.377	.419	.390	.85	.81	5.7	4.3	2.2	4.8
December	29.863	30.210	29.330	48.9	58.0	56.5	63.8	45.6	54.7	79	29	43	46	45	81	68	68	.300	.336	.320	4.29	1.49	5.9	5.8	4.7	5.9
Year	29.803	30.300	29.330	61.2	72.6	70.3	77.3	59.0	68.2	97	29	56	60	59	85	65	68	.506	.556	.541	45.30	3.65	4.6	5.1	4.1	5.0

WALLA WALLA, WASH.

[ϕ=46° 02′ N.; λ=118° 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	28.966	29.530	28.300	35.9	38.6	39.1	44.0	31.6	37.8	62	18	28	30	31	75	75	74	0.153	0.171	0.173	1.87	0.63	6.8	7.6	7.9	7.9
February	29.040	29.400	28.470	37.7	42.2	42.9	46.8	34.6	40.7	64	19	31	34	36	79	73	76	.180	.199	.214	2.21	.56	7.5	7.9	7.3	7.9
March	28.943	29.360	28.525	41.8	51.1	52.6	55.4	39.0	47.2	70	28	32	33	33	70	52	50	.185	.193	.196	2.24	1.19	5.9	6.0	5.4	5.9
April	28.965	29.300	28.620	42.8	55.4	57.8	60.2	40.2	50.2	72	32	32	32	32	66	41	41	.185	.182	.190	.81	.39	7.0	7.3	7.3	6.2
May	28.844	29.230	28.515	50.4	66.0	70.1	72.2	48.5	60.4	86	37	37	38	36	62	37	30	.228	.230	.221	.19	.09	5.7	5.0	6.0	5.0
June	28.859	29.070	28.560	60.2	75.6	79.1	82.1	58.8	70.4	98	50	46	45	44	60	34	31	.313	.302	.300	.67	.32	5.7	5.1	6.0	5.2
July	28.929	29.200	28.610	62.2	79.5	86.2	87.6	60.0	73.8	98	46	42	41	36	48	27	18	.267	.264	.219	.38	.34	1.6	1.8	1.6	1.7
August	28.884	29.170	28.600	63.4	80.2	85.3	87.6	61.6	74.6	100	54	45	45	42	52	30	24	.303	.303	.277	.57	.40	2.9	1.9	2.6	2.3
September	28.941	29.210	28.530	52.1	64.8	68.1	70.5	48.8	59.6	84	36	39	40	38	63	43	36	.247	.248	.239	.79	.49	6.1	4.9	4.5	5.0
October	28.973	29.270	28.600	49.8	62.0	63.1	67.7	46.4	57.0	81	35	37	39	42	62	46	51	.221	.247	.277	1.20	.36	4.4	4.9	4.8	4.5
November	28.981	29.350	28.390	40.3	47.5	46.6	51.4	36.4	43.9	67	15	33	35	35	76	64	66	.190	.214	.212	3.91	1.21	6.6	7.8	7.3	7.5
December	29.110	29.670	28.270	30.3	33.4	32.3	36.6	26.0	31.3	73	11	26	26	27	83	75	82	.144	.145	.153	1.57	.38	6.9	8.3	8.0	8.2
Year	28.953	29.670	28.270	47.2	58.0	60.3	63.5	44.3	53.9	100	11	36	36	36	66	50	48	.218	.225	.223	16.41	1.21	5.6	5.7	5.8	5.6

WASHINGTON, D. C.

[ϕ=38° 54′ N.; λ=77° 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	30.065	30.840	29.400	32.5	39.7	37.7	44.2	29.0	36.6	67	11	24	24	24	70	55	58	0.141	0.144	0.138	2.30	1.30	5.7	6.2	4.1	6.4
February	29.967	30.441	29.338	33.8	42.1	41.3	46.9	31.1	39.0	73	21	27	28	28	76	58	59	.150	.155	.157	2.29	1.65	6.7	7.2	5.4	6.4
March	30.029	30.438	29.600	40.0	60.5	58.1	66.7	44.3	55.5	89	26	41	41	41	74	51	55	.283	.292	.288	2.76	.95	6.2	5.3	4.6	5.5
April	29.933	30.238	29.431	53.7	64.2	61.7	70.0	48.3	59.2	90	31	45	44	45	73	51	56	.320	.312	.319	2.93	1.38	6.2	6.1	5.2	6.2
May	29.876	30.295	29.465	58.9	66.8	64.1	71.8	52.8	62.3	88	44	51	49	52	76	56	67	.386	.364	.406	5.82	2.10	5.9	6.7	6.0	6.4
June	29.862	30.182	29.562	70.3	80.5	75.7	85.2	63.2	74.2	96	50	59	58	60	69	48	60	.524	.510	.538	3.45	1.92	5.0	4.2	5.5	4.5
July	29.879	30.141	29.600	72.2	84.6	80.1	88.5	70.1	79.3	95	62	69	67	69	78	57	70	.703	.671	.717	4.79	1.85	3.8	4.6	4.2	4.9
August	29.968	30.160	29.600	69.9	78.2	73.8	82.5	63.0	72.8	93	53	61	59	62	75	53	67	.554	.512	.570	1.10	.42	4.1	5.2	3.7	4.1
September	29.915	30.163	29.604	69.9	80.0	73.7	84.0	64.7	74.4	95	55	62	61	63	78	34	70	.574	.552	.584	3.29	1.03	5.1	4.9	4.6	4.8
October	29.905	30.455	29.397	50.8	63.9	57.9	68.2	45.7	57.0	79	36	43	41	44	76	44	62	.284	.268	.306	1.35	*1.37	2.8	3.7	1.7	2.6
November	29.943	30.340	29.380	44.0	51.4	49.4	55.4	39.6	47.5	80	29	38	38	38	79	61	67	.239	.241	.246	4.15	1.05	5.4	7.7	5.7	6.2
December	29.943	30.610	29.300	34.9	41.0	38.8	45.2	30.6	37.9	66	12	26	28	27	71	61	63	.148	.161	.152	1.95	.43	6.1	6.6	5.2	6.1
Year	29.940	30.840	29.300	53.7	62.7	59.3	67.4	48.5	58.0	96	11	46	45	46	75	54	63	.359	.349	.368	36.18	2.10	5.2	5.6	4.7	5.6

* Oct. 31–Nov. 1.

Annual meteorological summary for the year ending December 31, 1921—Continued.

VALENTINE, NEBR.

[H_b=2,598 ft.; h_t=47 ft.; h_r=36 ft.; h_a=54 ft.]

Month.	Wind. By self-register. Average hourly velocity.	Prevailing direction.	Maximum velocity.	Direction at time of maximum velocity.	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	10.3	W.	38	W.	0	3	2	3	1	8	7	23	13	2	10	15	6	6	2	7	5	0	0	7	0	31	0	0
February	10.7	W.	46	NW.	1	3	2	4	2	2	12	18	13	0	10	12	6	3	1	5	3	0	0	6	0	24	0	0
March	11.7	SW.	46	SW.	2	13	5	2	6	8	9	12	7	0	10	12	9	8	3	7	3	0	0	3	0	21	1	0
April	12.0	NW.	38	NW.	0	7	5	3	0	6	8	12	19	0	8	13	9	10	7	4	4	0	2	2	0	13	1	0
May	11.8	SE.	48	SE.	3	7	9	11	15	6	3	2	9	0	5	15	11	13	8	0	0	0	2	0	0	0	9	0
June	9.4	S.	36	SW.	0	2	6	10	14	10	8	8	2	0	12	15	3	7	3	0	0	0	2	0	11	0	2	0
July	9.5	S.	40	NW.	1	6	6	7	7	17	7	4	8	0	13	14	4	10	7	0	0	1	0	0	14	0	8	0
August	8.6	S.	30	NW.	0	5	7	10	9	16	4	7	3	1	13	13	5	10	7	0	0	1	1	0	10	0	5	0
September	9.5	NW.	48	N.	1	5	8	4	5	7	7	8	16	0	14	12	4	9	6	0	0	1	2	0	2	0	4	0
October	10.1	NW.	40	N.	1	11	7	5	3	3	3	14	15	1	18	11	2	2	2	0	0	0	1	0	0	8	0	0
November	8.5	W.	34	S.	0	9	7	6	1	4	10	14	9	0	5	12	13	10	6	11	7	0	2	7	0	28	0	0
December	9.4	W.	55	NW.	1	8	3	4	2	1	7	18	18	1	13	9	9	4	2	6	4	0	2	13	0	28	0	0
Year	10.1	W.	55	NW.	10	79	67	69	65	88	85	140	132	5	131	153	81	92	54	40	26	3	14	38	37	153	30	0

VICKSBURG, MISS.

[H_b=247 ft.; h_t=65 ft.; h_r=58 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	7.7	SE.	36	W.	0	7	7	4	17	11	5	3	8	0	9	11	11	7	6	0	0	0	0	0	0	0	1	0
February	8.3	N.	34	NW.	0	8	9	2	11	7	5	7	6	1	14	3	11	11	9	0	0	0	3	0	0	2	6	0
March	7.7	S.	34	NW.	0	6	6	4	19	12	10	1	1	0	5	10	16	12	10	0	0	0	1	0	0	0	9	0
April	8.0	SE.	34	W.	0	7	8	8	20	6	6	3	2	0	13	6	11	11	10	0	0	0	1	0	0	0	10	0
May	6.3	NE.	25	SE.	0	6	13	7	8	6	12	3	7	0	12	14	5	6	3	0	0	1	0	0	3	0	6	0
June	5.8	SE.	24	SE.	0	2	2	6	13	14	14	7	2	0	7	15	8	12	10	0	0	0	0	0	11	0	13	0
July	5.2	SW.	31	NW.	0	4	2	6	12	7	16	6	8	1	11	12	8	11	8	0	0	0	1	0	21	0	11	0
August	5.7	SW.	22	N.	0	3	3	9	15	9	16	1	6	0	14	11	6	6	5	0	0	0	1	0	21	0	11	0
September	4.9	SW.	25	NW.	0	1	5	4	11	17	16	0	2	4	11	13	6	8	3	0	0	0	0	0	19	0	7	0
October	6.2	N.	30	W.	0	13	8	7	11	7	5	6	4	1	23	4	4	2	2	0	0	0	1	0	0	0	1	0
November	6.5	SE.	36	NW.	0	6	5	1	20	5	13	2	7	1	10	10	10	3	1	0	0	0	0	0	0	0	4	0
December	7.2	SE.	28	SW.	0	9	9	4	14	5	10	7	4	0	10	7	14	9	7	0	0	0	1	0	0	2	3	0
Year	6.6	SE.	36	W.	0	72	77	62	171	106	128	46	60	8	139	116	110	98	74	0	0	1	9	0	75	4	82	0

WALLA WALLA, WASH.

[H_b=1,000 ft.; h_t=57 ft.; h_r=50 ft.; h_a=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	6.3	S.	37	SE.	0	2	0	2	11	22	19	3	1	2	4	5	22	16	10	6	4	0	1	4	0	17	0	0
February	4.5	S.	23	SW.	0	0	5	1	5	17	17	6	5	0	3	4	21	16	14	8	6	0	3	0	0	11	0	0
March	6.6	S.	26	W.	0	2	3	2	8	18	22	2	5	0	7	14	10	12	8	3	3	0	0	0	0	2	0	0
April	6.4	S.	29	W.	0	4	1	2	7	19	13	11	3	0	7	12	11	11	6	2	2	1	0	0	0	2	0	0
May	5.2	SW.	28	S.	0	6	4	5	5	21	8	8	4	1	10	14	7	5	2	0	0	0	0	0	0	0	0	2
June	5.0	S.	37	S.	0	2	1	3	3	26	5	19	1	0	9	14	7	7	4	0	0	0	0	0	3	0	2	0
July	4.9	S.	36	W.	0	0	0	0	3	30	10	18	1	0	25	2	4	4	1	0	0	0	0	0	15	0	1	0
August	4.6	S.	24	SW.	0	0	0	3	8	26	10	13	2	0	21	10	0	4	3	0	0	0	0	0	14	0	5	0
September	4.7	S.	22	W.	0	2	2	6	4	24	13	7	2	0	9	12	9	7	5	0	0	0	0	0	0	0	0	0
October	3.7	S.	24	W.	0	0	3	2	18	17	8	10	3	1	15	5	11	9	9	0	0	0	0	0	0	0	1	0
November	5.6	S.	30	SW.	0	1	4	1	13	22	13	6	0	0	4	7	19	14	13	5	4	1	0	3	0	6	0	0
December	3.8	S.	27	SW.	0	1	1	3	12	17	18	5	5	0	4	3	24	16	12	8	6	0	8	12	0	20	0	0
Year	5.1	S.	37	SE.	0	20	24	30	97	259	156	108	32	4	118	102	145	121	87	32	25	2	12	19	32	58	9	2

WASHINGTON, D. C.

[H_b=112 ft.; h_t=62 ft.; h_r=42 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	7.0	N.	33	NW.	0	16	5	4	1	9	6	6	14	1	8	8	15	9	5	6	6	0	0	5	0	20	0	0
February	7.2	N.	34	N.	0	15	3	4	6	6	5	7	10	0	6	9	13	11	5	7	5	0	1	1	0	15	0	0
March	7.7	S.	30	NW.	1	9	3	4	7	12	20	1	5	1	8	14	9	10	8	0	0	0	0	0	0	3	3	0
April	7.4	S.	30	NW.	0	3	8	7	5	7	18	1	15	1	10	3	17	12	8	3	2	1	0	0	1	2	3	0
May	7.0	NW.	36	NW.	0	8	11	3	8	10	9	2	9	2	9	6	16	13	11	0	0	0	1	0	0	0	6	1
June	5.4	SW.	25	NW.	0	8	6	2	7	7	14	8	6	2	13	13	4	7	5	0	0	0	0	0	9	0	8	0
July	4.8	SW.	26	NW.	0	5	11	3	5	3	23	5	7	0	14	8	9	9	7	0	0	0	0	0	13	0	9	0
August	5.2	N.	22	NW.	0	11	6	3	10	6	8	5	13	0	13	9	9	6	3	0	0	0	0	0	4	0	6	0
September	4.7	SW.	33	NW.	0	11	7	3	8	8	15	4	4	0	11	12	7	9	8	0	0	0	0	0	5	0	8	1
October	6.1	NW.	30	NW.	0	4	8	3	9	9	8	7	14	0	18	8	5	6	4	0	0	0	0	0	0	0	1	0
November	6.4	N.	33	NW.	0	13	4	5	5	7	10	5	11	0	5	9	16	14	11	1	0	0	2	0	0	4	1	0
December	6.9	NW.	35	NW.	0	13	6	1	5	7	7	6	17	0	11	4	16	12	7	9	5	0	0	2	0	18	0	0
Year	6.3	N.	50	NW.	1	116	73	42	76	91	143	57	125	7	126	103	136	118	82	26	18	1	4	8	32	62	45	2

Annual meteorological summary for the year ending December 31, 1921—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	28.705	29.411	28.068	17.4	23.9	....	27.3	13.3	20.3	44	−8	....	....	....	....	....	....	....	....	....	0.50	0.19	6.4	6.0	....	6.4
February	28.643	29.224	28.030	17.2	26.7	....	30.2	13.3	21.8	49	−3	....	....	....	....	....	....	....	....	....	.75	.28	6.9	7.0	....	6.8
March	28.620	29.387	28.211	27.5	35.7	....	40.3	23.8	32.0	73	2	....	....	....	....	....	....	....	....	....	2.76	2.11	7.5	6.7	....	6.6
April	28.584	29.125	28.141	41.4	54.0	....	58.4	37.3	47.8	80	19	....	....	....	....	....	....	....	....	....	4.22	1.87	5.9	5.7	....	5.8
May	28.701	28.959	28.428	52.3	65.3	....	68.9	45.6	57.8	87	28	....	....	....	....	....	....	....	....	....	3.99	1.64	5.9	7.1	....	6.5
June	28.664	29.124	28.507	64.2	78.4	....	80.5	58.8	69.6	93	36	....	....	....	....	....	....	....	....	....	4.01	1.35	4.7	6.0	....	5.7
July	28.668	28.900	28.405	69.5	83.1	....	86.8	63.3	75.0	101	51	....	....	....	....	....	....	....	....	....	2.41	.61	4.0	5.7	....	5.3
August	28.695	29.019	28.314	60.5	76.[illegible]	....	78.9	56.2	67.6	89	42	....	....	....	....	....	....	....	....	....	2.02	.87	5.1	5.5	....	5.5
September	28.599	28.944	28.199	55.7	70.7	....	72.7	52.2	62.4	90	40	....	....	....	....	....	....	....	....	....	2.71	.76	3.8	4.2	....	4.9
October	28.587	28.844	28.234	41.5	53.6	....	56.9	39.1	48.0	69	27	....	....	....	....	....	....	....	....	....	1.45	.53	6.0	5.2	....	5.8
November	28.685	29.067	28.401	24.4	30.9	....	33.4	20.0	26.7	50	−3	....	....	....	....	....	....	....	....	....	1.48	.29	7.6	9.0	....	8.7
December	28.678	29.234	28.090	15.7	22.0	....	25.8	10.6	18.2	40	−19	....	....	....	....	....	....	....	....	....	1.37	.62	8.1	7.2	....	8.0
Year	28.653	29.411	28.030	40.6	51.7	....	55.0	36.2	45.6	101	−19	....	....	....	....	....	....	....	....	....	27.67	2.11	6.0	6.3	....	6.3

WICHITA, KANS.

[ϕ=47° 41′ 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	28.673	29.130	28.212	34.6	41.8	41.2	46.3	31.9	39.1	63	22	30	32	32	83	70	67	0.176	0.191	0.193	1.30	0.95	6.6	7.2	5.1	6.5
February	28.603	29.100	28.060	33.2	47.9	47.5	52.9	31.5	42.2	77	22	28	30	31	80	53	54	.153	.171	.176	.14	.14	3.5	2.9	3.3	3.4
March	28.537	29.221	27.980	43.6	56.1	57.1	62.5	40.0	51.2	83	23	33	39	40	80	53	55	.252	.253	.267	2.18	1.71	5.0	4.5	5.4	5.0
April	28.475	29.205	27.927	47.8	60.4	61.4	66.1	46.2	56.2	83	30	41	42	42	78	54	52	.275	.288	.289	4.09	1.36	4.1	3.9	4.5	4.2
May	28.541	28.845	28.100	60.9	73.7	72.9	77.4	58.3	67.8	91	42	54	54	53	76	51	51	.428	.437	.419	1.41	1.04	5.4	4.9	4.4	4.8
June	28.490	28.710	28.240	69.1	79.1	78.0	82.9	66.5	74.7	90	59	65	66	66	88	66	68	.629	.642	.646	4.31	1.97	4.9	5.6	5.6	5.4
July	28.580	28.730	28.190	73.9	88.0	86.4	90.5	71.5	81.0	102	66	66	64	64	78	46	48	.654	.601	.599	.71	.65	4.7	3.6	3.5	3.9
August	28.552	28.780	28.319	71.2	85.9	84.7	90.1	69.4	79.8	101	59	64	64	64	80	51	53	.610	.596	.603	4.14	1.47	5.5	3.7	3.6	4.2
September	28.498	28.734	28.210	67.9	81.2	78.3	85.0	65.6	75.3	97	45	61	64	61	79	57	58	.548	.610	.553	4.05	.76	5.4	3.8	3.9	4.4
October	28.519	28.943	27.960	50.8	66.7	66.7	73.1	49.2	61.2	92	40	41	45	43	69	48	46	.265	.314	.292	.52	.21	2.4	2.8	2.3	2.8
November	28.585	28.930	28.200	38.0	50.6	49.9	55.5	34.8	45.6	80	20	30	34	32	74	55	54	.173	.200	.188	T.	T.	3.5	5.4	4.1	4.5
December	28.641	29.050	28.020	30.3	40.4	39.9	45.7	25.5	35.6	75	7	25	27	25	79	62	58	.142	.154	.142	.52	.47	5.0	6.6	4.3	6.2
Year	28.555	29.221	27.927	51.8	64.3	63.7	69.2	49.3	59.2	102	7	45	47	46	79	56	55	.350	.372	.364	23.37	1.97	4.7	4.6	4.2	4.6

WILLISTON, N. DAK.

[ϕ=48° 09′ N.; λ=103° 35′ 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	27.965	28.490	27.270	14.9	23.2	21.7	28.6	8.8	18.7	44	−8	10	15	14	79	69	70	0.068	0.085	0.083	0.15	0.12	4.3	5.4	5.0	5.4
February	27.946	28.680	27.300	15.8	25.8	27.1	33.0	11.1	22.0	54	−13	11	17	18	80	66	68	.080	.105	.109	.39	.21	3.2	5.8	6.5	5.2
March	27.950	28.527	27.430	20.0	29.4	31.4	36.0	15.6	25.8	62	−5	15	19	21	79	64	66	.092	.109	.123	1.21	.41	7.1	6.4	6.8	5.9
April	27.921	28.640	27.310	30.9	45.7	48.4	51.9	29.0	40.4	74	14	25	25	27	78	49	48	.136	.145	.150	1.66	.70	5.2	4.9	5.3	4.5
May	27.985	28.460	27.210	47.0	60.0	60.7	63.9	43.7	53.8	82	26	39	40	40	75	49	49	.255	.258	.266	2.08	1.07	5.6	5.6	6.4	5.3
June	27.834	28.410	27.470	61.4	74.4	75.2	79.2	58.0	68.6	95	44	55	57	58	81	53	57	.449	.474	.494	5.68	2.02	5.2	4.8	5.1	5.0
July	27.972	28.230	27.515	60.8	76.8	77.7	81.6	57.5	69.6	96	47	55	55	55	81	49	49	.435	.442	.447	2.35	1.02	4.8	3.5	3.4	3.5
August	27.980	28.370	27.540	55.7	76.4	79.0	82.6	53.0	68.1	97	44	48	51	49	76	42	37	.342	.378	.354	.40	.30	2.7	3.0	3.4	2.9
September	27.889	28.340	27.360	47.6	61.6	60.9	66.2	44.6	55.4	84	35	40	40	41	75	48	52	.249	.250	.281	2.43	1.25	5.7	5.7	6.9	6.1
October	27.977	28.480	27.370	37.8	56.3	53.5	61.0	34.9	48.0	77	25	31	32	33	76	42	48	.170	.185	.190	.10	.07	3.1	5.1	4.4	4.5
November	28.015	28.510	27.280	18.8	28.3	25.0	32.4	13.7	23.0	65	−20	16	19	18	87	70	77	.100	.111	.109	.65	.23	7.1	7.5	6.3	7.7
December	28.073	28.570	27.440	14.8	21.0	18.6	25.0	9.5	17.2	43	−24	11	14	14	80	74	83	.088	.096	.096	.33	.13	4.3	5.7	4.1	5.5
Year	27.964	28.680	27.210	35.5	48.4	48.3	53.4	31.7	42.6	97	−24	30	32	32	79	56	59	.205	.220	.224	17.43	2.02	4.9	5.3	5.3	5.1

WILMINGTON, N. C.

[ϕ=34° 14′ N.; λ=77° 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	30.118	30.750	29.620	42.5	53.1	48.7	57.8	39.1	48.4	74	23	35	35	38	79	53	69	0.231	0.238	0.256	4.16	2.95	5.3	5.4	5.1	5.2
February	30.011	30.390	29.510	45.3	55.2	50.6	59.4	41.6	50.5	77	33	40	43	44	83	65	80	.268	.293	.303	3.32	.74	5.0	5.3	5.4	5.6
March	30.112	30.390	29.840	58.6	68.4	62.3	71.8	54.1	63.0	85	38	53	52	55	83	58	78	.428	.415	.453	1.44	.99	4.6	5.2	4.9	4.6
April	30.007	30.201	29.638	61.3	69.5	63.5	72.2	54.7	63.4	85	36	54	52	54	79	57	72	.444	.420	.441	4.94	2.72	5.1	5.3	4.7	5.0
May	29.908	30.200	29.550	64.0	72.5	65.3	75.0	58.7	66.8	90	46	58	56	58	81	61	76	.497	.480	.500	6.87	1.53	6.1	6.8	6.4	6.7
June	29.924	30.158	29.660	75.0	83.4	75.6	85.0	68.2	76.6	96	51	67	65	68	78	56	77	.681	.642	.692	2.92	1.37	4.6	5.1	5.3	5.0
July	29.974	30.230	29.750	77.6	83.4	77.7	84.9	72.2	78.6	94	67	72	71	73	84	68	85	.793	.770	.806	11.17	2.06	6.1	7.1	6.2	6.5
August	30.009	30.210	29.780	75.0	83.1	77.4	85.1	70.2	77.6	94	58	70	69	71	85	64	81	.747	.712	.766	3.50	1.75	3.7	5.3	4.8	4.8
September	29.973	30.170	29.750	74.9	85.6	77.4	87.7	70.8	79.2	95	67	70	68	70	88	56	80	.746	.657	.749	1.86	.94	3.9	3.3	3.2	3.7
October	29.951	30.420	29.570	69.6	70.6	64.2	73.0	54.4	63.7	83	42	51	50	54	75	52	71	.390	.382	.441	2.82	1.89	4.5	4.4	4.0	4.2
November	30.011	30.234	29.530	54.6	55.9	59.3	68.8	50.5	59.6	79	32	50	50	53	85	59	80	.362	.377	.417	2.22	1.46	3.9	3.9	3.5	4.0
December	30.024	30.570	29.440	44.6	53.0	51.2	59.9	40.8	50.4	73	26	38	41	41	79	58	68	.248	.276	.271	1.54	.64	4.5	4.5	3.1	4.6
Year	30.002	30.750	29.440	61.1	70.6	64.5	73.4	53.3	64.8	96	23	55	54	57	81	59	76	.489	.474	.508	46.76	2.95	4.8	5.1	4.6	5.0

Annual meteorological summary for the year ending December 31, 1921—**Continued.**

WAUSAU, WIS.

[H_b=1,247 ft.; h_1=4 ft.; h_r=38 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.	....	.....	....	2	3	0	6	3	3	5	9	0	9	7	15	5	3	10	3	0	0	21	0	30	0	0
February	.....	SE.	....	.....	....	3	2	1	8	2	4	3	4	1	7	6	15	6	5	14	6	0	0	18	0	28	0	0
March	.....	SE.	....	.....	....	2	2	4	9	4	0	4	6	0	6	12	13	10	7	14	4	0	1	6	0	27	3	0
April	.....	E.	....	.....	....	6	3	6	3	4	4	1	2	1	8	11	11	12	10	2	1	0	0	0	0	10	4	2
May	.....	N.	....	.....	....	6	5	4	4	6	1	0	4	1	5	15	11	10	9	3	0	2	1	0	0	4	5	2
June	.....	SE.	....	.....	....	3	2	4	7	5	4	4	1	0	9	12	9	11	10	0	0	1	0	0	2	0	4	0
July	.....	S.	....	.....	....	4	3	1	6	6	2	2	3	4	9	17	5	12	8	0	0	0	0	0	11	0	10	0
August	.....	SE.	....	.....	....	6	0	1	8	6	3	2	4	1	10	10	11	8	5	0	0	0	1	0	0	0	5	0
September	.....	S.	....	.....	....	2	0	3	3	6	4	3	4	5	13	8	9	12	10	0	0	0	0	0	0	0	8	1
October	.....	SE.	....	.....	....	3	4	0	7	1	5	6	5	0	7	14	10	11	7	3	2	0	2	0	0	5	2	1
November	.....	NW.	....	.....	....	4	4	2	5	2	2	3	8	0	2	1	27	11	10	16	11	0	3	14	0	30	0	0
December	.....	NW.	....	.....	....	4	2	0	5	0	1	3	15	1	4	6	21	10	8	15	10	0	2	23	0	31	0	0
Year	.....	SE.	....	.....	....	45	30	26	71	45	33	36	65	14	89	119	157	118	92	77	37	3	10	82	13	165	41	6

* By eye observations at this station.

WICHITA, KANS.

[H_b=1,358 ft.; h_1=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	13.5	S.	43	SW.	3	9	8	5	3	17	12	2	6	0	6	11	14	5	4	1	1	0	0	4	0	19	1	0
February	13.0	N.	49	S.	2	12	9	3	2	14	5	5	6	0	17	7	4	1	1	2	0	0	0	1	0	18	0	0
March	16.7	S.	54	SW.	7	11	11	2	5	23	7	1	2	0	9	15	7	9	6	1	1	1	1	0	0	6	5	0
April	16.0	S.	46	SW.	7	8	7	1	10	19	2	3	10	0	12	14	4	10	10	1	0	0	1	0	0	4	7	0
May	13.1	S.	70	SW.	1	4	9	5	8	31	4	0	1	0	8	20	3	4	4	0	0	1	0	0	1	0	5	1
June	10.6	S.	48	SW.	1	5	9	5	4	28	3	2	1	3	9	13	8	12	7	0	0	0	2	0	0	0	7	0
July	11.4	S.	39	E.	0	1	8	5	7	37	2	1	0	1	15	13	3	4	1	0	0	0	0	0	16	0	3	0
August	11.5	S.	46	SW.	3	5	8	4	12	30	2	0	1	0	13	15	3	9	8	0	0	0	0	0	17	0	9	0
September	14.1	S.	42	NW.	1	6	1	6	12	28	3	0	3	1	13	12	5	12	9	0	0	0	0	0	10	0	10	0
October	14.3	S.	47	S.	2	11	3	1	11	22	2	3	9	0	19	9	3	5	3	0	0	0	0	0	1	0	1	0
November	11.9	S.	38	S.	0	16	7	6	6	15	0	3	7	0	15	5	10	0	0	1	0	0	1	1	0	12	0	0
December	12.7	N.	42	NE.	1	13	5	1	13	9	2	8	11	0	9	5	17	4	2	5	2	1	1	6	0	22	0	0
Year	13.2	S.	70	SW.	28	101	85	44	93	273	44	28	57	5	145	139	81	75	55	11	4	3	6	12	45	81	48	1

WILLISTON, N. DAK.

[H_b=1,878 ft.; h_1=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	7.7	SE.	30	NW.	0	3	2	9	14	7	8	12	7	0	10	9	12	2	1	8	2	0	0	16	0	31	0	0
February	8.8	W.	36	NW.	0	5	3	3	11	7	8	7	12	0	9	9	10	5	4	8	5	0	0	12	0	26	0	0
March	9.6	NW.	36	NW.	0	7	7	6	10	5	7	8	12	0	5	19	7	9	8	12	9	0	0	13	0	30	0	0
April	9.7	E.	42	E.	1	11	8	10	9	1	5	6	10	0	11	11	8	7	6	7	5	0	0	5	0	18	0	0
May	10.9	SE.	48	SE.	2	9	6	10	20	4	5	5	3	0	9	15	7	7	6	0	0	0	1	0	0	4	3	1
June	8.8	E.	36	E.	0	4	10	18	11	0	4	7	6	0	8	16	6	14	11	0	0	1	2	0	4	0	13	0
July	7.8	SE.	42	E.	1	15	3	13	10	3	5	7	6	0	15	15	1	9	9	0	0	1	0	0	4	0	6	0
August	7.7	SE.	40	NW.	1	13	8	7	13	6	3	6	6	0	19	12	0	3	3	0	0	0	1	0	6	0	2	0
September	9.0	W.	40	SE.	1	5	4	9	7	3	8	17	7	0	7	13	10	12	9	0	0	1	0	0	0	0	3	0
October	7.3	W.	43	W.	1	8	4	5	2	8	15	10	10	0	13	12	6	3	1	0	0	0	1	0	0	9	0	0
November	7.6	W.	37	SE.	0	7	3	9	9	7	10	10	5	0	3	9	18	10	4	14	9	0	0	13	0	28	0	0
December	8.4	W.	33	NW.	0	7	2	1	2	10	16	19	4	1	11	7	13	6	3	10	5	0	1	20	0	29	0	0
Year	8.6	W.	48	SE.	7	94	60	100	118	61	94	114	88	1	120	147	98	87	65	59	35	3	6	79	14	175	27	1

WILMINGTON, N. C.

[H_b=78 ft.; h_1=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	8.0	W.	38	NE.	0	11	13	0	1	4	11	17	5	0	9	13	9	8	5	0	0	0	0	0	0	6	3	0
February	7.6	W.	34	S.	0	5	15	6	1	6	8	10	5	0	7	10	11	11	11	0	0	0	2	0	0	0	2	0
March	9.0	S.	27	N.	0	6	11	7	5	18	9	5	0	1	13	9	9	8	4	0	0	0	3	0	0	0	3	0
April	9.0	S.	37	SW.	0	8	11	1	2	17	10	5	6	0	10	11	9	14	12	0	0	1	0	0	0	0	8	0
May	7.6	W.	28	N.	0	10	11	9	3	3	7	13	5	1	4	12	15	16	13	0	0	1	0	0	0	0	8	1
June	7.8	SW.	28	NE.	0	1	12	7	2	5	16	16	1	0	5	20	5	9	9	0	0	0	1	0	9	0	11	1
July	7.7	SW.	38	W.	0	2	3	5	8	12	23	9	0	0	4	16	11	20	19	0	0	0	0	0	3	0	14	0
August	7.2	SW.	37	NE.	0	8	13	7	1	4	21	6	1	1	12	11	8	15	11	0	0	0	0	0	5	0	10	0
September	5.2	SW.	24	N.	0	4	8	6	3	8	10	15	4	2	15	14	1	8	7	0	0	0	1	0	8	0	10	1
October	7.9	NE.	30	NE.	0	12	14	6	2	5	6	7	8	2	14	10	7	9	5	0	0	0	1	0	0	0	1	0
November	6.4	W.	24	W.	0	12	5	5	6	6	11	10	3	2	14	10	6	6	5	0	0	0	1	0	0	0	1	0
December	7.2	W.	32	SW.	0	12	12	1	1	4	11	15	6	0	13	11	7	8	7	0	0	0	1	0	0	2	0	0
Year	7.5	SW.	38	W.	0	91	128	60	35	92	143	128	44	9	120	147	98	132	108	0	0	2	10	0	25	8	71	3

Annual meteorological summary for the year ending December 31, 1921—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	25.634	26.060	25.080	28.5	38.8	35.9	42.0	23.3	32.6	60	8	22	25	25	76	58	64	0.117	0.136	0.134	0.46	0.12	6.4	7.0	7.3	7.0
February	25.696	26.140	25.060	27.9	44.1	44.6	48.9	24.7	36.8	67	7	24	29	29	83	55	55	.129	.159	.165	.37	.13	4.8	7.6	7.3	6.9
March	25.598	25.980	25.220	33.7	52.5	53.4	57.0	30.6	43.8	72	19	28	27	27	79	38	38	.153	.147	.148	.66	.35	5.1	6.0	5.7	6.0
April	25.579	25.970	25.120	34.0	53.0	54.5	59.2	31.0	45.1	74	15	24	26	26	68	38	36	.132	.139	.144	.06	.03	5.2	5.7	6.1	5.8
May	25.492	25.720	25.236	42.1	63.3	63.6	67.6	40.6	54.1	83	30	35	33	33	75	37	37	.203	.197	.195	1.18	.49	4.4	5.5	6.7	5.4
June	25.577	25.750	25.330	51.5	76.1	76.0	80.0	50.4	65.2	93	32	43	42	42	74	32	33	.284	.274	.366	.82	.81	3.3	3.8	4.2	3.7
July	25.628	25.760	25.460	54.6	86.4	87.1	90.6	53.4	72.0	96	37	34	32	33	47	15	15	.200	.188	.190	T.	T.	.8	.9	1.7	1.4
August	25.626	25.770	25.452	52.9	85.0	84.1	88.8	50.8	69.8	95	44	32	34	33	46	16	16	.185	.199	.190	.16	.15	1.3	1.1	2.0	1.5
September	25.607	25.850	25.352	42.5	72.1	71.7	76.1	38.7	57.4	86	26	27	35	32	54	28	24	.150	.221	.188	.01	.01	1.6	1.8	1.9	1.8
October	25.676	26.070	25.250	34.9	68.3	64.9	72.2	31.6	51.9	84	19	23	30	30	60	26	29	.120	.170	.169	.05	.03	1.9	3.5	3.4	3.4
November	25.688	25.940	25.330	29.1	53.3	49.2	58.0	23.9	41.0	74	2	20	25	25	69	36	40	.110	.137	.134	.64	.49	4.1	4.9	5.1	5.2
December	25.679	26.180	25.100	24.0	38.6	36.1	43.2	20.1	31.6	61	4	21	26	26	86	63	68	.113	.142	.141	1.34	.39	4.5	6.1	5.6	6.1
Year	25.623	26.180	25.060	38.0	61.0	60.1	65.3	34.9	50.1	96	2	28	30	30	68	37	38	.158	.176	.180	5.75	.81	3.6	4.5	4.8	4.5

WYTHEVILLE, VA.

[ϕ=36° 56′ N.; λ=81° 05′ W.]

January	27.758	28.270	27.250	29.3	37.9	35.4	42.6	25.1	33.8	62	8	24	28	27	82	67	71	0.143	0.160	0.153	3.65	1.72	7.0	5.6	4.5	5.6
February	27.650	27.990	27.221	32.9	40.9	39.0	45.7	29.6	37.6	67	16	28	31	31	83	68	73	.162	.176	.178	3.40	1.21	6.9	5.9	4.7	6.1
March	27.769	28.040	27.490	46.2	58.7	54.8	63.5	40.2	51.8	78	25	40	42	42	79	55	64	.262	.280	.287	2.31	.59	4.7	4.7	3.8	4.1
April	27.712	28.009	27.310	49.0	59.1	55.6	63.9	42.8	53.4	83	23	41	41	41	74	55	62	.275	.275	.279	2.38	.76	5.6	4.9	4.4	4.6
May	27.664	28.002	27.350	55.1	65.0	60.5	68.6	49.4	59.0	81	35	49	50	50	82	60	70	.369	.372	.375	3.97	1.34	5.4	5.5	5.8	5.5
June	27.702	27.927	27.470	66.6	75.6	71.5	80.5	60.1	70.3	87	50	61	61	62	81	63	72	.539	.551	.558	1.26	.37	4.2	5.0	5.2	3.7
July	27.733	27.962	27.540	68.2	78.4	72.4	82.0	62.0	72.0	88	51	64	63	64	86	62	76	.594	.582	.600	4.36	2.06	4.0	5.4	4.9	3.9
August	27.775	27.929	27.590	64.4	73.2	69.8	77.3	59.1	68.2	89	48	60	61	61	86	68	76	.526	.543	.549	3.72	2.29	4.9	5.3	4.7	4.4
September	27.747	27.900	27.550	64.2	76.4	68.7	80.2	59.8	70.0	87	46	61	63	62	90	64	81	.544	.575	.560	2.34	.70	3.8	5.0	4.5	4.1
October	27.673	28.130	27.290	44.9	60.4	53.9	64.3	40.0	52.2	79	26	38	41	42	77	51	65	.237	.272	.273	3.69	2.74	3.5	2.9	2.0	3.1
November	27.684	27.974	27.150	40.8	50.9	46.9	55.6	37.0	46.3	72	22	36	39	39	83	66	74	.221	.251	.248	1.49	.68	5.8	5.9	5.1	6.0
December	27.641	28.074	27.070	35.1	42.2	38.9	46.4	30.7	38.6	64	21	29	32	30	77	68	71	.163	.187	.174	1.25	.37	6.8	5.9	6.0	6.6
Year	27.709	28.270	27.070	49.7	59.9	55.6	64.2	44.6	54.4	89	8	44	46	46	82	62	71	.336	.352	.354	33.82	2.74	5.2	5.2	4.6	4.8

YANKTON, S. DAK.

[ϕ=42° 54′ N.; λ=97° 28′ W.]

January	28.755	29.360	28.140	23.7	31.6	....	36.2	20.3	28.2	63	4	20	22	....	85	68	....	0.110	0.122	....	0.46	0.39	5.7	7.2	....	6.7
February	28.682	29.370	27.950	24.1	35.0	....	41.6	19.3	30.4	66	−3	20	24	....	84	64	....	.114	.132	....	.39	.32	5.8	5.4	....	6.0
March	28.655	29.380	27.850	32.8	45.0	....	52.0	28.6	40.3	79	13	27	30	....	78	58	....	.150	.176	....	1.23	.70	5.8	5.1	....	5.3
April	28.569	29.316	27.850	42.7	57.0	....	62.7	39.6	51.2	86	21	36	38	....	77	52	....	.225	.242	....	1.15	.29	6.4	5.9	....	6.1
May	28.661	29.090	28.220	54.7	66.3	....	71.2	50.6	60.9	91	32	50	53	....	85	66	....	.384	.460	....	6.04	2.26	6.3	6.3	....	6.2
June	28.612	29.082	28.250	69.0	82.8	....	86.9	64.8	75.8	101	49	64	70	....	84	68	....	.607	.740	....	1.36	.64	4.9	4.6	....	4.4
July	28.656	28.900	28.120	71.3	83.8	....	87.9	67.0	77.4	98	52	65	64	....	82	52	....	.628	.595	....	2.63	.91	5.1	4.4	....	4.6
August	28.673	29.020	28.370	65.0	78.3	....	82.5	61.5	72.0	94	50	60	63	....	86	61	....	.536	.594	....	4.85	1.61	5.5	5.0	....	5.2
September	28.602	28.920	28.110	57.7	71.3	....	76.3	54.1	65.2	89	39	52	54	....	82	59	....	.407	.448	....	2.33	.78	4.9	4.7	....	4.4
October	28.617	29.070	28.160	44.8	62.6	....	67.4	42.2	54.8	84	33	36	38	....	72	43	....	.215	.233	....	1.03	.97	4.4	4.8	....	5.2
November	28.748	29.180	28.190	27.0	36.9	....	41.1	22.7	31.9	68	1	23	26	....	84	65	....	.126	.144	....	.32	.16	7.1	6.3	....	7.1
December	28.767	29.270	28.150	22.3	31.8	....	36.5	17.5	27.0	65	−12	18	20	....	82	64	....	.105	.117	....	.60	.27	5.2	6.3	....	6.4
Year	28.666	29.380	27.850	44.6	56.9	....	61.9	40.7	51.3	101	−12	39	42	....	82	60	....	.301	.334	....	22.39	2.26	5.6	5.5	....	5.6

YELLOWSTONE PARK, WYO.

[ϕ=44° 58′ N.; λ=110° 42′ W.].

January	23.817	24.130	23.340	18.1	24.5	22.8	28.9	12.4	20.6	42	−15	13	15	15	73	65	70	0.080	0.087	0.088	1.49	0.37	5.0	6.9	6.6	7.3
February	23.846	24.320	23.260	19.6	29.1	28.5	34.2	14.6	24.4	51	−10	14	16	16	76	57	58	.084	.092	.090	.62	.24	5.0	7.2	7.1	6.6
March	23.758	24.174	23.400	25.7	35.0	34.8	39.9	20.1	30.0	56	3	19	22	21	75	59	56	.105	.117	.112	1.24	.30	5.5	6.9	5.3	6.3
April	23.771	24.210	23.340	27.1	41.3	40.8	45.5	23.8	34.6	59	5	20	22	21	74	48	48	.111	.119	.115	1.70	.76	5.9	6.4	6.4	6.2
May	23.808	24.090	23.500	37.1	50.8	50.5	55.2	34.0	44.6	67	26	31	33	32	79	55	54	.177	.194	.187	4.48	1.55	7.3	6.7	6.4	7.0
June	23.904	24.110	23.575	47.2	67.0	66.6	71.3	44.4	57.8	84	33	40	41	41	76	41	43	.245	.258	.261	1.13	.31	4.9	5.5	5.4	5.6
July	23.984	24.160	23.540	50.2	72.3	72.1	77.1	47.1	62.1	88	32	40	39	40	68	32	36	.247	.239	.254	.93	.49	3.6	4.4	4.9	4.6
August	23.995	24.160	23.740	48.0	70.4	69.5	75.1	45.3	60.2	82	38	39	40	39	72	36	35	.240	.251	.243	1.03	.30	3.9	4.4	5.7	4.9
September	23.886	24.090	23.610	38.9	53.6	51.9	58.5	34.7	46.6	73	23	28	28	28	66	41	42	.159	.158	.154	.84	.27	4.7	5.7	5.0	5.3
October	23.959	24.310	23.570	34.6	54.7	51.9	59.7	30.5	45.1	75	20	24	25	25	64	34	38	.129	.137	.133	.56	.36	2.7	2.8	3.3	3.3
November	23.833	24.210	23.430	26.8	36.8	34.0	41.9	21.9	31.9	60	−5	20	22	20	75	56	58	.109	.115	.104	2.55	.69	6.3	5.9	6.6	6.9
December	23.884	24.310	23.340	20.5	25.5	22.6	29.5	12.8	21.2	43	−16	15	16	15	78	68	72	.087	.095	.089	2.26	.40	5.7	6.4	6.7	6.9
Year	23.870	24.320	23.260	32.8	46.8	45.5	51.4	28.5	39.9	88	−16	25	27	26	73	49	51	.148	.155	.152	18.62	1.55	5.0	5.8	5.8	5.9

Annual meteorological summary for the year ending December 31, 1921—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	8.9	SW.	43	SW.	1	8	17	1	1	5	19	9	2	0	8	3	20	8	5	10	7	0	0	3	0	25	0	0
February	7.9	NE.	38	S.	0	4	20	0	0	5	17	8	2	0	4	10	14	7	4	9	6	0	0	2	0	25	0	0
March	8.1	SW.	37	NW.	0	3	12	4	0	7	22	7	7	0	9	8	14	5	3	0	0	0	0	0	0	19	0	0
April	8.9	SW.	38	NW.	0	3	10	0	1	5	19	5	17	0	11	4	15	3	0	3	3	0	0	0	0	19	0	0
May	7.5	SW.	39	SW.	0	4	18	0	4	7	20	3	6	0	11	8	12	9	6	0	0	0	0	0	0	1	2	0
June	6.5	SW.	39	S.	0	3	10	5	0	8	20	10	4	0	18	4	8	3	2	1	1	0	0	0	3	0	1	0
July	6.0	SW.	36	NW.	0	2	6	1	2	5	31	9	6	0	27	3	1	0	0	0	0	0	0	0	23	0	1	0
August	5.9	SW.	43	S.	1	4	12	0	0	3	32	7	4	0	25	6	0	2	1	0	0	0	0	0	12	0	2	0
September	6.4	NE.	27	SW.	0	3	18	1	0	2	17	11	8	0	23	4	3	1	0	0	0	0	0	0	0	6	0	0
October	6.4	NE.	27	SW.	0	4	29	0	0	3	13	10	3	0	18	4	8	2	0	0	0	0	0	0	0	14	0	0
November	8.3	SW.	33	SW.	0	3	19	0	0	1	31	2	4	0	13	6	11	4	3	2	0	0	0	0	0	26	0	0
December	6.3	NE.	48	SW.	2	13	27	2	0	2	14	2	2	0	11	2	18	10	7	11	8	0	0	1	0	28	0	0
Year	7.3	SW.	48	SW.	4	54	198	14	8	53	255	83	65	0	178	62	125	54	31	36	25	0	0	6	38	163	6	0

WYTHEVILLE, VA.

[H_b=2,304 ft.; h_t=49 ft.; h_r=40 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	8.0	W.	35	NW.	0	2	2	7	2	0	3	27	17	2	10	9	12	12	12	9	8	0	0	5	0	23	0	0
February	6.5	W.	28	NW.	0	5	0	8	4	0	4	22	11	2	10	5	13	8	7	7	2	0	1	3	0	18	1	0
March	7.1	W.	30	W.	0	2	2	12	3	1	16	14	12	0	15	11	5	9	7	0	0	0	1	0	0	8	1	0
April	7.0	NW.	32	W.	0	1	1	10	1	4	8	17	16	2	14	5	11	11	7	2	1	0	0	0	0	4	3	0
May	5.3	NW.	28	NW.	0	5	1	10	4	3	8	14	15	2	11	11	9	14	11	0	0	1	2	0	0	0	4	0
June	5.0	W.	19	W.	0	3	5	9	4	1	11	22	4	1	14	13	3	9	7	0	0	0	0	0	0	0	6	0
July	4.7	W.	23	W.	0	1	3	10	6	3	9	21	7	2	12	17	2	20	14	0	0	0	0	0	0	0	13	0
August	4.8	W.	22	W.	0	2	0	16	4	2	3	19	11	5	13	12	6	11	9	0	0	0	1	0	0	0	5	0
September	4.0	W.	24	W.	0	1	1	5	4	0	2	31	11	5	12	14	4	16	10	0	0	0	1	0	0	0	6	0
October	6.7	W.	27	W.	0	2	2	8	7	0	4	25	9	5	20	6	5	8	3	0	0	0	0	0	0	4	1	0
November	7.2	W.	34	W.	0	0	5	5	3	2	4	28	10	3	10	5	15	12	8	2	0	0	0	0	0	6	0	0
December	9.2	W.	42	W.	1	1	1	6	2	2	4	36	9	1	8	7	16	8	7	2	0	0	1	1	0	19	0	0
Year	6.3	W.	42	W.	1	25	23	106	44	18	76	276	132	30	149	115	101	138	102	22	11	1	7	9	0	82	40	0

YANKTON, S. DAK.

[H_b=1,233 ft.; h_t=49 ft.; h_r=42 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	8.4	NW.	30	NW.	0	3	1	2	4	3	3	4	9	2	6	8	17	5	3	7	5	0	4	11	0	29	0	0
February	8.0	NW.	36	NW.	0	1	3	2	2	3	3	5	7	2	7	13	8	5	1	5	4	0	1	8	0	25	0	0
March	9.9	NW.	40	NW.	1	1	3	2	2	3	5	5	10	0	11	11	9	5	2	5	3	1	0	2	0	18	1	0
April	10.3	NW.	36	S.	0	3	2	2	2	2	6	4	7	2	9	9	12	10	6	1	0	0	0	0	0	7	5	0
May	7.9	NW.	35	SW.	0	1	5	3	3	4	3	2	7	3	8	10	13	13	13	0	0	3	0	0	1	2	8	0
June	5.8	S.	27	S.	0	2	1	4	3	6	4	2	4	4	10	18	2	7	6	0	0	0	0	0	12	0	5	0
July	6.3	W.	32	NW.	0	2	3	2	4	3	5	5	5	2	10	17	4	10	7	0	0	1	1	0	11	0	6	0
August	6.1	NE.	32	NW.	0	5	6	6	3	4	2	2	1	2	11	15	5	9	8	0	0	0	0	0	7	0	6	0
September	7.2	W.	33	NW.	0	2	5	3	3	3	2	7	4	1	12	12	6	6	5	0	0	0	0	0	0	0	4	0
October	8.2	NW.	38	NW.	0	3	5	1	0	1	4	5	10	2	8	17	6	3	2	0	0	0	0	0	0	0	1	0
November	7.4	NW.	24	S.	0	3	5	1	6	2	1	4	6	2	5	11	14	8	2	7	7	0	0	11	0	26	0	0
December	8.8	W.	40	W.	1	5	1	1	1	2	6	10	5	0	8	8	15	3	3	3	3	0	0	15	0	25	0	0
Year	7.9	NW.	40	NW.	2	31	40	29	33	36	44	55	75	22	105	149	111	84	58	28	22	5	6	47	31	132	36	0

* By eye observations at this station.

YELLOWSTONE PARK, WYO.

[H_b=6,200 ft.; h_t=11 ft.; h_r=4 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	9.7	S.	42	SW.	2	1	1	1	2	32	17	5	3	0	5	8	18	18	12	24	17	0	0	18	0	31	0	0
February	8.7	S.	32	SW.	0	1	2	0	3	20	20	9	1	0	5	11	12	10	6	17	10	0	0	12	0	25	0	0
March	10.9	S.	54	S.	1	4	1	1	1	23	22	2	8	0	4	16	11	15	11	21	14	0	0	5	0	27	0	0
April	8.7	SW.	36	S.	0	5	1	2	2	19	11	6	14	0	5	12	13	11	8	16	8	0	0	3	0	24	0	0
May	7.2	SW.	28	SW.	0	13	4	0	1	15	14	7	8	0	4	11	16	16	14	8	4	2	0	0	0	11	2	0
June	6.9	S.	32	SW.	0	6	0	1	2	24	15	6	6	0	4	20	6	11	8	0	0	3	0	0	0	0	9	0
July	6.4	SW.	42	S.	1	1	0	2	0	16	22	9	12	0	12	15	4	8	7	2	2	0	0	0	0	1	4	0
August	7.0	S.	32	S.	0	1	0	0	0	23	20	6	12	0	9	19	3	11	8	0	0	0	0	0	0	0	7	0
September	9.2	S.	39	SW.	0	6	1	1	2	23	18	6	3	0	8	14	8	7	5	3	1	0	0	0	0	12	2	0
October	7.0	S.	28	S.	0	1	1	0	1	15	25	11	8	0	17	9	5	5	4	1	1	0	0	0	0	21	0	0
November	8.5	S.	41	S.	1	7	1	1	7	23	16	5	0	0	5	8	17	14	11	15	13	0	0	5	0	27	0	0
December	8.5	S.	42	NW.	2	6	1	2	1	25	19	4	4	0	9	3	19	15	14	18	15	0	0	15	0	30	0	0
Year	8.2	S.	54	S.	7	52	13	11	22	258	219	76	79	0	87	146	132	141	108	125	85	5	0	58	0	209	24	0

Annual meteorological summary for the year ending December 31, 1921—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	29.958	30.340	29.690	43.5	61.4	61.7	65.2	40.3	52.8	74	28	32	32	36	68	36	41	0.189	0.190	0.221	0.70	0.37	1.3	1.9	2.4	2.3
February	29.883	30.110	29.574	48.5	70.4	70.6	74.4	45.8	60.1	92	37	38	40	42	69	35	38	.232	.262	.281	.03	.03	.4	.8	1.6	1.3
March	29.778	30.090	29.436	54.5	76.8	78.4	81.3	51.4	66.4	91	45	41	37	36	62	26	24	.265	.231	.214	.09	.04	1.8	1.6	2.7	2.0
April	29.737	29.960	29.360	53.6	80.1	81.1	84.4	51.2	67.8	101	38	37	29	29	54	16	16	.222	.160	.164	.00	.00	.5	1.0	1.5	1.2
May	29.665	29.870	29.421	58.7	84.0	84.7	88.5	57.5	73.0	103	46	45	39	38	62	22	22	.305	.245	.237	.06	.04	1.2	1.2	1.8	1.4
June	29.577	29.800	29.389	68.5	96.1	98.2	101.7	67.1	84.4	109	58	52	44	44	58	18	16	.398	.295	.300	T.	T.	1.8	1.1	1.1	1.1
July	29.635	29.810	29.404	79.9	99.4	100.6	104.1	78.5	91.3	111	64	68	62	62	67	31	30	.687	.576	.565	.05	.05	3.2	2.1	2.1	2.3
August	29.672	29.860	29.533	78.2	98.4	97.3	102.5	76.7	89.6	110	71	69	64	65	74	34	37	.710	.595	.619	1.44	1.36	2.5	2.1	2.3	2.1
September	29.618	29.760	29.440	70.3	94.9	94.4	99.3	68.4	83.8	109	62	62	52	54	75	26	27	.568	.412	.427	3.65	3.65	1.3	1.1	1.1	1.1
October	29.730	30.190	29.468	62.9	86.7	81.4	89.7	60.7	75.2	101	46	55	52	54	77	32	41	.452	.402	.440	.04	.04	1.0	.9	1.4	1.1
November	29.856	30.150	29.619	50.9	76.2	68.7	78.3	48.0	63.2	89	36	39	35	40	66	23	37	.246	.209	.256	.00	.00	1.6	1.5	1.7	1.9
December	29.917	30.200	29.480	50.7	66.6	61.8	68.8	47.2	58.0	76	39	38	41	39	66	45	49	.250	.281	.268	.92	.47	4.9	4.5	3.8	4.5
Year	29.752	30.340	29.360	60.0	82.6	81.6	86.5	57.7	72.1	111	28	48	44	45	66	29	32	.377	.322	.333	6.98	3.65	1.8	1.6	2.0	1.9

DUTCH HARBOR, ALASKA.

[ϕ=53° 55′ N.; λ=166° 30′ W.]

	†			*		*																	*		*	
January	29.848	30.466	28.966	30.9	....	28.4	32.2	26.3	29.2	40	8	....	....	....	....	....	....	....	....	....	0.69	0.12	6.1	....	6.5	....
February	29.390	30.246	28.336	28.5	....	26.2	30.6	23.4	27.0	39	6	....	....	....	....	....	....	....	....	....	10.92	....	6.6	....	7.1	....
March	29.840	30.466	28.876	40.0	....	36.4	41.5	33.2	37.4	54	19	....	....	....	....	....	....	....	....	....	7.45	2.16	4.8	....	5.7	....
April	29.713	30.306	28.936	36.2	....	32.7	36.6	30.0	33.3	46	22	....	....	....	....	....	....	....	....	....	1.47	.24	6.6	....	4.4	....
May	29.924	30.476	29.066	42.9	....	39.3	45.3	36.0	40.6	52	28	....	....	....	....	....	....	....	....	....	6.04	1.68	7.2	....	6.6	....
June	29.736	30.236	29.296	46.7	....	43.4	48.7	40.7	44.7	58	36	....	....	....	....	....	....	....	....	....	2.86	1.42	7.9	....	7.8	....
July	29.925	30.346	29.496	52.6	....	48.6	55.2	44.8	50.0	67	41	....	....	....	....	....	....	....	....	....	2.65	.34	6.5	....	6.8	....
August	29.870	30.256	29.086	55.6	....	54.0	60.0	49.7	54.8	70	42	....	....	....	....	....	....	....	....	....	1.47	.54	6.9	....	7.9	....
September	29.704	30.236	29.226	48.4	....	47.7	53.6	43.9	48.8	65	33	....	....	....	....	....	....	....	....	....	4.30	1.16	8.9	....	8.3	....
October	29.666	30.256	29.016	36.9	....	39.5	44.4	34.9	38.6	53	26	....	....	....	....	....	....	....	....	....	3.38	.79	8.4	....	8.8	....
November	29.362	30.116	28.506	37.2	....	39.1	43.2	34.2	38.7	51	25	....	....	....	....	....	....	....	....	....	2.70	.24	6.5	....	7.2	....
December	29.641	30.626	28.776	32.3	....	33.6	38.5	28.3	33.4	49	17	....	....	....	....	....	....	....	....	....	2.76	.65	7.0	....	7.2	....
Year	29.718	30.626	28.336	40.7	....	39.1	44.2	35.4	39.7	70	6	....	....	....	....	....	....	....	....	....	46.69	....	7.0	....	7.0	....

EAGLE, ALASKA.

[ϕ=64° 46′ N.; λ=141° 12′ W.]

	†			*		*																	*		*	
January	29.048	29.570	28.060	−21.4	....	−19.5	−13.4	−28.9	−21.2	30	−56	....	....	....	....	....	....	....	....	....	0.27	0.06	4.9	....	2.4	5.3
February	28.892	29.840	27.843	−16.7	....	−6.7	−0.3	−21.2	−10.8	42	−55	....	....	....	....	....	....	....	....	....	.28	.11	5.6	....	5.0	5.9
March	29.078	30.009	28.465	1.1	....	15.0	18.9	−4.6	7.2	41	−40	....	....	....	....	....	....	....	....	....	.45	.26	5.1	....	4.0	4.8
April	28.938	29.357	28.515	24.5	....	37.5	41.4	15.7	28.6	52	−7	....	....	....	....	....	....	....	....	....	.69	.51	3.9	....	3.9	4.9
May	29.054	29.474	28.540	43.3	....	51.6	56.0	31.5	43.8	72	17	....	....	....	....	....	....	....	....	....	.42	.14	4.8	....	6.1	5.6
June	28.859	29.240	28.642	58.4	....	68.3	73.4	43.9	58.6	83	30	....	....	....	....	....	....	....	....	....	1.13	.35	4.0	....	5.1	4.9
July	28.994	29.207	28.823	60.2	....	67.7	74.4	47.4	60.9	85	34	....	....	....	....	....	....	....	....	....	1.88	.41	4.6	....	6.4	6.3
August	28.990	29.356	28.520	52.8	....	65.4	71.1	41.9	56.5	86	31	....	....	....	....	....	....	....	....	....	.61	.17	4.2	....	5.7	4.9
September	28.852	29.420	28.218	36.4	....	44.3	49.9	30.3	40.1	63	16	....	....	....	....	....	....	....	....	....	1.02	.33	6.5	....	6.2	6.4
October	28.799	29.210	28.260	23.8	....	27.3	31.7	21.2	26.4	52	1	....	....	....	....	....	....	....	....	....	.52	.13	8.0	....	8.2	8.6
November	29.147	29.687	28.495	−1.9	....	1.0	5.8	−6.1	−0.2	37	−38	....	....	....	....	....	....	....	....	....	.07	.04	3.4	....	3.0	2.9
December	28.980	30.153	28.170	2.6	....	2.6	10.5	−7.6	1.4	29	−35	....	....	....	....	....	....	....	....	....	.51	.14	4.8	....	5.1	6.6
Year	28.969	30.153	27.843	21.9	....	29.5	35.0	13.6	24.3	86	−56	....	....	....	....	....	....	....	....	....	7.86	.51	5.0	....	5.1	5.6

KODIAK (RADIO) ALASKA.

[ϕ=57° 47′ N.; λ=152° 22′ W.]

	†			*		*																				
January	29.628	30.188	28.873	25.2	....	27.1	30.5	18.7	24.6	42	−3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
February	29.435	30.463	28.333	25.9	....	30.3	34.3	19.7	27.0	42	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
March	29.891	30.583	28.963	32.3	....	39.2	43.0	27.8	35.4	52	20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
April	29.640	30.123	28.933	34.3	....	39.6	41.9	31.1	36.5	55	18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
May	29.946	30.333	29.453	40.8	....	48.3	50.0	37.5	43.8	62	30	....	....	....	....	....	....	....	....	....	1.82	0.81	....	....	....	....
June	....	....	....	46.4	....	52.2	54.9	44.0	49.4	70	37	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
July	29.952	30.243	29.613	48.7	....	54.9	58.3	46.5	52.4	70	42	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
August	29.890	30.123	29.413	52.7	....	55.1	60.9	49.5	55.2	72	45	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
September	29.613	30.143	28.763	47.0	....	49.1	55.8	43.8	49.8	68	34	....	....	....	....	....	....	....	....	....	2.75	1.64	....	....	....	....
October	29.425	30.053	28.953	40.5	....	41.2	45.1	37.5	41.3	50	27	....	....	....	....	....	....	....	....	....	3.00	....	....	....	....	....
November	29.693	30.298	28.563	37.1	....	38.3	41.5	33.2	37.4	48	26	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
December	29.655	30.963	28.613	34.0	....	34.5	39.2	28.4	33.8	49	15	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Year	....	....	....	38.7	....	42.5	46.3	34.8	40.6	72	−3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

† No diurnal correction applied.

* 1 a. m. and 1 p. m., local time, at Dutch Harbor; 8 a. m. and 6 p. m., normal time, at Eagle; 2 a. m. and 2 p. m., normal time, at Kodiak.

Annual meteorological summary for the year ending December 31, 1921—Continued.

YUMA, ARIZ.

[H_b=141 ft.; h_1=9 ft.; h_2=2 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	4.9	N.	24	W.	0	16	12	7	2	3	4	4	14	0	23	6	2	3	3	0	0	0	0	0	0	1	0	0
February	7.4	N.	38	NW.	0	19	4	3	6	4	5	5	10	0	24	4	0	1	0	0	0	0	0	0	1	0	0	0
March	6.4	W.	30	W.	0	13	6	0	4	8	10	12	9	0	23	7	1	4	0	0	0	0	0	0	2	0	1	0
April	6.7	W.	41	NW.	1	8	9	0	7	6	10	17	3	0	25	5	0	0	0	0	0	0	0	0	9	0	0	0
May	5.3	W.	32	NW.	0	3	1	3	9	4	12	21	9	0	26	5	0	2	1	0	0	0	0	0	13	0	0	1
June	4.4	SW.	18	W.	0	5	0	2	4	9	22	12	6	0	25	5	0	0	0	0	0	0	0	0	28	0	0	0
July	6.2	S.	31	S.	0	1	2	3	13	10	20	7	4	2	22	8	1	1	1	0	0	0	0	0	31	0	4	0
August	4.3	SW.	28	SE.	0	6	4	3	9	4	19	10	3	4	22	9	0	3	3	0	0	0	0	0	31	0	7	0
September	4.1	SW.	25	S.	0	2	6	8	6	8	11	11	5	3	27	1	2	2	2	0	0	0	0	0	28	0	1	0
October	3.4	W.	20	NW.	0	7	8	5	6	2	7	11	9	7	28	1	2	1	1	0	0	0	0	0	16	0	1	0
November	4.1	N.	22	W.	0	23	14	6	0	3	1	8	4	1	23	6	1	0	0	0	0	0	0	0	0	0	0	0
December	5.0	N.	28	N.	0	25	14	2	4	4	0	5	5	3	12	10	9	4	3	0	0	0	1	0	0	0	1	0
Year	5.3	N.	41	NW.	1	128	80	42	70	65	121	123	81	20	280	67	18	21	14	0	0	0	1	0	159	1	15	1

DUTCH HARBOR, ALASKA.

[H_b=13 ft.; h_1=4 ft.; h_2=3 ft.; h_3=— 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	.....	*NW.	....	.....	....	6	4	0	6	0	7	4	8	27	....	....	....	21	7	....	....	....	....	10	0	22	....	....
February	.....	SE.	....	.....	....	9	3	0	17	3	6	0	2	16	....	....	....	23	15	....	....	....	....	13	0	27	....	....
March	.....	SE.	....	.....	....	0	0	0	28	0	11	0	8	15	....	....	....	27	23	....	....	....	....	2	0	13	....	....
April	.....	NW.	....	.....	....	4	4	0	4	3	3	5	9	28	....	....	....	26	17	....	....	....	....	3	0	20	....	....
May	.....	SE.	....	.....	....	1	5	1	19	6	2	2	4	22	....	....	....	16	13	....	....	....	....	0	0	4	....	....
June	.....	SE.	....	.....	....	2	3	2	8	5	0	1	1	38	....	....	....	15	8	....	....	....	....	0	0	0	....	....
July	.....	SE.	....	.....	....	0	0	1	7	2	3	1	3	45	....	....	....	21	18	....	....	....	....	0	0	0	....	....
August	.....	SW.	....	.....	....	0	2	1	10	4	13	5	0	27	....	....	....	10	8	....	....	....	4	0	0	0	....	....
September	.....	SW.	....	.....	....	3	3	3	9	3	14	2	6	16	....	....	....	19	16	....	....	....	....	0	0	0	....	....
October	.....	N.	....	.....	....	15	1	0	8	3	8	4	5	18	....	....	....	23	20	....	....	....	....	0	0	9	....	....
November	.....	S.	....	.....	....	2	2	1	8	10	4	5	2	26	....	....	....	24	23	....	....	....	....	0	0	10	....	....
December	.....	W.	....	.....	....	10	3	0	6	9	5	10	5	14	....	....	....	24	14	....	....	....	....	4	0	26	....	....
Year	.....	SE.	....	.....	....	52	30	9	180	48	76	40	53	292	....	....	....	249	182	....	....	....	....	32	0	131	....	....

EAGLE, ALASKA.

[H_b=815 ft.; h_1=4 ft.; h_2=3 ft.; h_3=— 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.	....	.....	....	4	6	21	1	2	0	2	18	16	10	9	12	6	5	8	6	....	0	31	0	31	....	6
February	.....	E.	....	.....	....	0	6	19	3	0	0	1	19	17	11	0	17	6	4	10	6	0	0	27	0	28	....	11
March	.....	E.	....	.....	....	0	5	26	3	1	1	2	15	9	12	8	11	5	4	6	5	....	0	26	0	31	....	13
April	.....	E.	....	.....	....	8	9	16	2	3	2	1	18	9	13	4	13	5	2	7	4	....	....	4	0	27	....	7
May	.....	E.	....	.....	....	13	3	19	3	1	0	12	6	5	11	6	14	8	0	2	....	....	0	0	0	17	....	4
June	.....	E.	....	.....	....	13	10	17	1	3	1	9	9	6	12	8	10	9	7	0	0	0	0	0	0	1	7	0
July	.....	E.	....	.....	....	3	13	18	0	1	1	16	2	8	8	7	16	12	8	0	0	0	0	0	0	0	4	0
August	.....	W.	....	.....	....	6	8	11	1	3	0	14	2	17	17	2	12	9	6	0	0	....	....	0	0	5	....	....
September	.....	W.	....	.....	....	6	9	10	3	1	0	12	3	16	7	6	17	10	7	3	2	....	....	0	0	20	1	11
October	.....	W.	....	.....	....	4	4	16	1	0	0	16	6	15	2	4	25	10	6	10	6	....	....	16	0	22	....	4
November	.....	E.	....	.....	....	11	5	17	1	1	0	14	2	9	20	4	6	2	1	3	2	....	....	28	0	30	....	15
December	.....	NE.	....	.....	....	4	11	7	2	2	0	7	2	27	8	6	17	11	4	16	10	....	....	31	0	31	....	11
Year	.....	E.	....	.....	....	72	89	197	21	18	5	106	68	154	131	64	170	93	54	65	....	....	....	163	0	248	....	....

KODIAK (RADIO) ALASKA.

[H_b=15 ft.; h_1=6 ft.; h_2=3 ft.; h_3=— 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	.....	*W.	....	.....	....	5	1	2	4	0	1	18	13	18	10	10	11	....	....	....	....	....	....	19	0	31	....	....
February	.....	NW.	....	.....	....	2	5	3	1	2	3	5	11	24	8	7	13	....	....	....	....	....	....	7	0	25	....	....
March	.....	NW.	....	.....	....	0	3	6	4	3	4	1	10	31	10	12	9	....	....	....	....	....	....	0	0	26	....	....
April	.....	NW.	....	.....	....	0	7	5	2	1	3	8	9	28	10	8	12	....	....	....	....	....	....	1	0	17	....	....
May	.....	W.	....	.....	....	0	2	8	6	0	2	9	3	32	14	11	6	6	6	....	....	....	....	0	0	3	....	....
June	.....	{SE. NW.	....	.....	....	2	8	2	1	0	1	2	8	24	8	8	14	....	....	....	....	....	....	0	0	0	....	....
July	.....	SE.	....	.....	....	0	6	1	8	0	0	2	2	42	4	10	17	....	....	....	....	....	....	0	0	0	....	....
August	.....	SE.	....	.....	....	0	8	2	11	0	1	6	2	31	5	8	18	....	....	....	....	....	....	0	0	0	....	....
September	.....	SE.	....	.....	....	1	1	3	11	3	6	4	3	27	4	16	9	....	....	....	....	....	....	0	0	0	....	....
October	.....	NW.	....	.....	....	2	4	0	8	8	3	5	13	19	7	5	19	....	....	....	....	....	....	0	0	5	....	....
November	.....	SE.	....	.....	....	0	16	3	17	2	4	1	2	15	7	6	18	....	....	....	....	....	....	0	0	14	....	....
December	.....	SE.	....	.....	....	0	6	5	18	2	10	3	11	7	16	5	11	....	....	....	....	....	....	1	0	21	....	1
Year	.....	SE.	....	.....	....	12	67	38	91	21	38	61	87	306	102	106	157	....	....	....	....	....	....	28	0	142	....	....

* 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, 1921—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	29.751	30.500	28.500	1.0		1.4	8.0	−7.1	0.4	25	−29										2.22	0.68	5.9		6.2	6.3
February	29.731	30.380	28.930	−3.8		−1.5	5.8	−11.0	−2.6	32	−36										.44	.20	4.0		4.0	4.1
March	29.873	30.920	29.090	11.0		13.7	20.2	5.8	13.0	34	−18										1.70	.48	8.7		8.5	8.5
April	29.789	30.165	29.090	13.6		21.1	24.7	8.5	16.6	38	−10										.42	.18	5.5		4.9	5.3
May	29.972	30.470	29.210	33.7		36.7	40.4	28.3	34.4	53	10										.90	.22	5.8		4.8	5.3
June	29.785	30.062	29.475	47.6		47.2	51.5	37.6	44.6	76	28										.86	.44	3.2		4.1	4.2
July	29.848	30.191	29.549	50.3		52.9	55.6	44.3	50.0	71	36										1.67	.42	7.5		6.9	6.7
August	29.760	30.088	29.180	51.8		54.5	56.9	49.8	53.4	64	40										5.15	1.08	9.2		8.5	
September	29.664	30.112	28.810	34.7		42.9	46.0	32.2	39.1	55	24										1.60	.52	7.9		8.0	
October	29.656	29.982	29.105	25.2		27.3	32.0	20.0	26.0	40	8										1.19	.34	6.0		4.8	
November	29.656	30.229	29.168	24.9		23.9	28.2	20.0	24.1	36	−2										.86	.56	5.8		5.2	5.7
December	29.640	30.922	28.630	8.0		8.0	13.9	0.5	7.2	33	−20										3.05	.72	6.1		5.8	6.8
Year	29.760	30.922	28.500	24.8		27.3	31.9	19.1	25.5	76	−36										20.06	1.08	6.3		6.0	

SITKA, ALASKA.

[ϕ=57° 04′ N.; λ=135° 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	29.552	30.130	28.950	29.8		31.2	36.5	25.5	31.0	45	11										6.39	2.34	7.4		5.9	6.4
February	29.590	30.270	28.880	33.9		34.9	40.5	29.6	35.0	49	17										8.44	1.22	8.3		8.1	8.0
March	29.898	30.306	29.251	32.5		32.6	40.6	27.1	33.8	52	10										7.52	2.19	6.4		5.3	5.8
April	29.772	30.270	28.970	40.4		40.0	47.9	33.8	40.6	58	28										4.94	1.08	7.2		8.1	7.3
May	29.909	30.286	29.460	46.1		45.1	52.0	37.9	45.0	72	30										5.46	1.62	7.5		7.0	7.7
June	29.738	29.960	29.340	53.9		53.2	61.9	45.2	53.6	74	38										2.16	.65	7.0		7.1	6.7
July	30.006	30.271	29.682	54.8		53.8	59.8	48.5	54.2	77	43										3.84	.65	9.0		9.1	8.8
August	29.896	30.162	29.266	55.7		54.9	62.9	49.2	56.0	72	42										5.73	1.75	7.5		7.4	7.2
September	29.708	30.334	28.530	52.6		51.2	59.2	46.4	52.8	68	40										7.78	1.74	8.0		8.3	7.5
October	29.553	30.170	28.700	46.6		45.5	51.9	40.9	46.0	62	34										15.65	3.72	8.8		8.8	8.3
November	29.728	30.290	28.900	34.3		35.0	44.7	29.8	37.2	54	17										7.00	1.38	5.0		5.8	4.9
December	29.776	30.720	28.490	35.5		36.7	41.5	31.2	36.4	54	22										12.45	3.02	7.8		7.3	7.6
Year	29.760	30.720	28.490	43.0		42.8	50.0	37.0	43.5	77	10										87.36	3.72	7.5		7.4	7.2

TANANA, ALASKA.

[ϕ=65° 10′ N.; λ=152° 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	29.734	30.312	28.780	−23.2		−21.7	−12.8	−32.8	−22.8	6	−52										1.38	0.36	5.1		4.3	4.9
February	29.572	30.520	28.620	−13.5		−8.5	4.6	−21.5	−8.4	20	−49										.46	.10	6.4		5.5	5.5
March	29.774	30.740	29.090	2.5		11.8	18.7	−4.0	7.4	35	−35										2.90	.92	7.3		6.6	6.6
April	29.620	30.042	29.020	19.0		31.1	36.2	10.8	23.5	49	−26										.14	.05	3.5		4.1	3.2
May	29.768	30.213	29.180	40.5		49.0	52.3	31.3	41.8	67	19										1.48	.47	5.4		5.1	5.3
June	29.529	29.800	29.244	57.1		65.1	70.7	45.1	57.9	81	36										.83	.25	6.5		6.2	5.5
July	29.680	29.878	29.500	58.1		66.3	71.5	47.2	59.4	83	34										.93	.38	7.6		7.7	7.3
August	29.652	30.051	29.100	54.1		62.7	67.9	48.7	55.8	80	31										2.63	.95	8.4		8.6	8.3
September	29.494	30.018	28.905	31.4		39.9	47.1	25.7	36.4	64	13										1.91	.44	6.8		6.3	5.9
October	29.444	30.000	28.970	20.9		23.3	26.8	15.6	21.2	40	−4										.76	.17	5.4		8.3	7.1
November	29.698	30.260	29.072	7.1		7.7	10.8	0.7	5.8	32	−14										.07	.02	3.9		6.1	4.1
December	29.567	30.959	28.600	4.1		3.7	10.5	−5.0	2.8	34	−25										.70	.17	7.8		6.8	7.9
Year	29.628	30.959	28.600	21.5		27.5	33.7	13.1	23.4	86	−52										14.19	.95	6.2		6.1	6.0

VALDEZ, ALASKA.

[ϕ=61° 07′ N.; λ=146° 16′ 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	29.694	30.290	28.780	16.9		16.9	23.9	9.1	15.5	36	−14										4.91	2.09	5.4		5.3	5.5
February	29.600	30.462	28.560	17.1		20.8	27.0	13.0	20.0	41	−6										6.02	1.37	6.8		7.1	7.1
March	29.978	30.550	29.230	23.8		26.2	34.9	18.9	26.4	44	2										3.25	1.05	6.1		5.8	5.5
April	29.808	30.200	29.200	35.8		34.7	43.8	26.8	35.3	54	16										3.60	1.32	6.7		6.1	6.2
May	29.966	30.387	29.470	46.2		47.3	54.2	34.9	44.6	63	28										1.62	.71	4.3		5.3	4.7
June	29.828	30.160	29.430	52.7		55.4	61.5	43.1	52.3	69	35										1.92	1.05	6.1		6.3	6.2
July	30.026	30.330	29.740	51.9		53.3	58.2	46.4	52.3	65	38										4.79	.98	7.6		8.4	8.1
August	29.946	30.236	29.320	51.7		55.7	61.0	45.9	53.4	69	39										2.76	.96	6.8		7.3	6.5
September	29.717	30.390	28.770	43.1		45.9	54.2	38.3	46.2	69	30										5.89	1.04	7.1		8.0	7.4
October	29.606	30.070	28.770	33.7		36.9	42.3	31.1	36.7	53	13										6.67	1.72	7.4		8.0	8.9
November	29.843	30.430	28.920	22.6		24.3	29.8	18.1	24.0	39	7										1.67	1.36	5.0		4.6	4.8
December	29.778	30.980	28.800	23.4		24.5	29.9	16.4	23.2	46	5										7.90	2.63	7.6		6.8	6.9
Year	29.816	30.980	28.560	34.9		36.7	43.4	28.4	35.9	69	−14										60.60	2.63	6.4		6.4	6.4

† No diurnal correction applied.

* 6 a. m. and 6 p. m., 165th meridian time, at Nome; 8 a. m. and 8 p. m., 135th meridian time, at Sitka; 7 a. m. and 7 p. m., normal time, at Tanana and Valdez.

Annual meteorological summary for the year ending December 31, 1921—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	10.1	NE	48	.....	1	10	25	2	3	5	3	4	3	7	10	5	16	12	12	17	12	....	....	31	0	31	....	....
February	9.1	NE	48	.....	1	13	17	2	1	1	0	4	4	14	15	4	9	4	3	9	4	....	....	28	0	28	....	1
March	9.7	NE	48	.....	4	5	27	5	2	3	5	2	2	11	2	5	24	12	10	18	12	....	....	29	0	31	....	....
April	8.8	NE	36	.....	0	8	15	11	1	1	2	4	4	14	12	6	12	6	5	10	6	....	....	23	0	30	....	....
May	6.7	NE	25	.....	0	6	11	9	7	1	4	5	4	15	12	5	14	8	8	4	....	....	....	3	0	26	....	....
June	5.4	W.	21	NW.	0	4	3	5	3	5	3	23	3	11	13	10	7	6	3	0	0	....	....	0	0	1	....	....
July	7.8	SE.	33	.....	0	1	5	4	17	4	16	6	3	6	8	3	20	12	8	0	0	....	....	0	0	0	....	....
August	9.1	SE.	36	.....	0	1	13	6	18	5	10	2	2	5	1	11	19	26	22	0	0	....	....	0	0	0	1	....
September	8.1	NE.	58	S.	1	12	17	4	4	1	6	4	11	1	11	8	11	10	8	5	....	....	....	0	0	18	....	1
October	9.6	N.	36	.....	0	27	18	1	1	4	3	1	6	1	11	7	13	10	8	13	....	....	....	13	0	29	....	1
November	13.0	NE.	46	SE.	4	7	38	6	6	1	0	0	0	2	12	3	15	8	5	13	....	....	....	20	0	31	....	1
December	10.2	N.	54	NW.	4	23	7	8	4	5	2	6	3	4	8	2	21	14	13	19	....	....	....	30	0	31	....	2
Year	9.0	NE.	58	S.	15	117	196	63	67	36	54	61	45	91	115	69	181	128	105	108	....	....	....	177	0	256	....	....

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	.....	NE.	....	.....	....	6	10	6	8	1	0	2	2	27	6	10	15	19	12	12	12	....	....	8	0	27	....	....
February	.....	E.	....	.....	....	1	1	18	7	0	0	3	2	24	4	4	20	21	16	10	....	....	....	0	0	17	0	....
March	.....	NE.	....	.....	....	2	11	4	6	1	0	8	1	29	11	6	14	19	18	7	....	....	....	1	0	23	....	....
April	.....	SE.	....	.....	....	0	2	5	20	0	2	1	4	26	3	11	16	19	16	5	....	....	....	0	0	19	....	....
May	.....	W.	....	.....	....	0	1	4	5	4	5	8	4	31	8	4	19	18	17	1	1	....	....	0	0	4	....	....
June	.....	SW.	....	.....	....	3	1	5	9	0	10	3	7	22	6	10	14	19	12	0	0	....	....	0	0	0	....	....
July	.....	W.	....	.....	....	0	0	5	0	0	3	11	3	40	1	4	26	23	22	0	0	....	....	0	0	0	....	....
August	.....	W.	....	.....	....	0	0	15	1	1	2	16	0	27	6	7	18	20	17	0	0	....	....	0	0	0	....	....
September	.....	SE.	....	.....	....	0	1	8	10	2	2	3	7	27	5	6	19	22	21	0	0	....	....	0	0	0	....	....
October	.....	E.	....	.....	....	1	1	20	15	1	1	3	0	20	1	9	21	26	24	1	....	....	2	0	0	0	....	....
November	.....	E.	....	.....	....	6	6	11	4	1	1	5	2	24	15	1	14	13	13	....	....	....	....	0	0	21	....	....
December	.....	E.	....	.....	....	5	3	12	5	0	4	2	3	28	4	6	21	21	19	9	....	....	....	0	0	21	....	....
Year	.....	E.	....	.....	....	24	37	113	90	11	30	65	35	325	70	78	217	240	207	....	....	....	....	9	0	132	....	....

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	.....	NE.	....	.....	....	1	18	4	6	0	8	15	9	1	16	5	10	15	12	16	15	....	....	31	0	31	0	2
February	.....	NE.	....	.....	....	2	20	11	5	0	4	8	6	0	6	16	6	8	6	10	8	....	....	28	0	28	0	6
March	.....	NE.	....	.....	....	6	24	6	11	0	4	5	6	0	9	7	15	20	13	22	20	....	....	28	0	31	....	8
April	.....	NE.	....	.....	....	2	25	9	3	1	10	6	4	0	21	5	4	5	1	5	5	....	....	8	0	29	....	1
May	.....	NE.	....	.....	....	1	18	10	6	0	10	5	12	0	11	8	12	8	7	4	....	....	....	0	0	18	....	....
June	.....	SW.	....	.....	....	4	5	9	9	4	14	9	6	0	8	15	7	15	9	0	0	....	....	0	0	0	....	....
July	.....	SW.	....	.....	....	1	4	3	15	1	27	6	5	0	4	11	16	13	8	0	0	....	....	0	0	0	1	....
August	.....	SW.	....	.....	....	3	8	10	8	2	16	6	9	0	2	7	22	10	7	0	0	....	1	0	0	1	2	....
September	.....	NW.	....	.....	....	6	14	11	6	1	4	4	14	0	10	7	13	10	8	3	....	....	....	1	0	25	....	....
October	.....	NE.	....	.....	....	3	26	9	5	1	4	1	13	0	3	9	19	9	7	19	....	....	....	22	0	31	....	1
November	.....	NE.	....	.....	....	1	29	24	1	0	4	0	1	0	14	11	5	4	0	6	4	....	....	30	0	30	....	6
December	.....	NE.	....	.....	....	1	21	17	2	2	7	7	4	1	2	9	20	17	9	20	....	....	....	30	0	31	....	....
Year	.....	NE.	....	.....	....	31	212	123	77	12	112	72	89	2	106	110	149	134	87	105	....	....	....	178	0	255	....	....

VALDEZ, ALASKA.

[H_b=27 ft.; h_t=4 ft.; h_r=6 ft.; h_c= — 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.	....	.....	....	23	31	0	0	0	4	0	0	4	15	1	15	12	11	14	12	....	....	27	0	31	0	....
February	.....	NE.	....	.....	....	11	28	0	0	0	4	0	0	13	7	3	18	17	14	15	14	....	....	20	0	28	0	....
March	.....	N.	....	.....	....	22	19	0	0	1	4	0	0	16	13	3	15	13	9	14	13	....	....	10	0	31	0	....
April	.....	N.	....	.....	....	23	20	0	0	0	8	0	0	9	9	6	15	13	10	9	3	....	....	0	0	28	....	....
May	.....	SW.	....	.....	....	10	0	0	0	3	43	0	0	6	14	7	10	8	5	2	....	....	....	0	0	11	....	....
June	.....	SW.	....	.....	....	1	0	0	0	1	55	0	0	3	8	7	15	9	5	0	0	....	....	0	0	0	....	....
July	.....	SW.	....	.....	....	4	1	0	0	0	38	0	0	19	4	3	24	20	15	0	0	....	....	0	0	0	....	....
August	.....	SW.	....	.....	....	6	5	0	0	0	25	0	0	26	8	7	16	15	10	0	0	....	....	0	0	0	....	....
September	.....	SW.	....	.....	....	13	13	0	0	1	14	0	0	19	5	7	18	20	17	0	0	....	....	0	0	5	....	....
October	.....	NE.	....	.....	....	8	45	0	0	0	6	0	0	3	7	6	18	21	14	6	5	....	....	0	0	15	....	....
November	.....	NE.	....	.....	....	19	33	0	0	1	4	0	0	3	13	7	10	4	3	4	2	....	....	21	0	28	....	....
December	.....	NE.	....	.....	....	18	28	0	0	2	7	0	0	7	9	3	19	17	15	21	17	....	....	19	0	31	....	....
Year	.....	NE.	....	.....	....	158	223	0	0	9	212	0	0	128	112	60	193	169	128	85	....	....	....	97	0	208	....	....

* By eye observations at this station.

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PART IV.

MONTHLY AND ANNUAL PRECIPITATION, 1921 (ALL STATIONS)—MONTHLY AND SEASONAL SNOWFALL, SEASON 1921-22 (SELECTED STATIONS)—MONTHLY AND ANNUAL EVAPORATION, 1921.

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 at 6 o'clock a. m., whereas the other may defer it to 9 p. m., 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 1921-1922 are given for selected stations in the United States and Canada.

The monthly and annual amounts of evaporation during the year 1921 follow the snowfall, this being the third 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 1921.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Alabama.													
Alaga	2.15	1.05	1.95	10.10	5.80	1.55	8.90	2.45	0.85	2.70	1.50	1.90	40.90
Anniston	3.83	7.75	3.75	4.65	3.14	2.11	4.38	3.04	3.74	2.92	4.35	3.70	47.36
Auburn	2.98	5.39	3.91	5.78	3.33	3.61	8.28	3.84	0.63	3.30	3.53	3.21	47.79
Bay Minette	.....	1.84	7.48	4.65	2.62	0.82	7.87	7.84	3.90	1.70	4.50	4.81	.....
Benton	3.40	4.47	8.07	4.83	2.32	2.24	4.30	3.54	1.13	0.70	5.60	5.14	45.74
Birmingham	3.72	7.32	4.88	4.81	1.24	1.45	5.79	3.97	4.20	1.94	2.14	3.23	44.69
Bridgeport	3.83	8.15	2.41	6.24	2.22	1.48	4.32	7.42	3.76	2.60	5.41	3.56	51.40
Calera	3.88	3.85	5.09	5.30	0.60	2.55	6.15	3.07	3.73	4.09	2.55	2.08	42.94
Camp Hill	1.93	4.08	5.29	5.52	.....	3.72	2.74	3.15	1.62	1.57	2.11	2.65	.....
Centerville	5.32	4.30	7.61	10.23	0.44	2.08	3.45	3.66	2.73	1.93	1.79	2.59	46.13
Citronelle	2.05	4.65	10.20	6.99	2.41	2.61	5.90	4.25	1.02	3.89	2.74	5.04	52.35
Clanton	2.95	6.10	5.34	7.38	0.40	1.99	3.35	1.76	5.38	1.98	3.44	3.73	43.80
Cochrane	3.55	4.29	6.47	9.55	1.04	2.50	1.10	3.30	2.08	0.58	3.11	4.90	42.47
Dadeville	2.75	5.42	4.09	5.46	1.53	1.28	2.38	2.81	1.70	4.80	2.96	2.78	37.96
Decatur	2.75	5.93	3.87	6.61	2.24	1.83	3.95	2.87	3.08	1.42	4.46	3.45	42.46
Demopolis	2.60	4.15	5.25	7.55	0.46	0.90	4.45	3.21	1.30	0.45	2.31	2.26	34.89
Eufaula	2.38	2.45	2.89	4.61	4.10	2.20	4.04	3.90	1.35	3.10	3.12	3.26	37.40
Evergreen	1.25	1.35	1.20	6.60	3.27	1.96	5.88	6.52	0.72	2.13	1.70	2.65	35.17
Florence	3.68	6.14	4.36	6.55	1.14	4.26	6.74	3.78	5.86	2.76	3.68	2.12	51.07
Fort Deposit	2.23	6.73	4.71	7.85	1.81	1.02	3.69	4.21	1.62	2.18	4.11	4.06	44.22
Gadsden	6.10	9.21	2.68	4.62	1.00	1.95	5.32	9.40	5.52	1.97	3.98	2.19	53.94
Goodwater	3.71	5.86	3.44	6.25	0.27	1.31	4.21	2.91	3.13	4.53	4.14	3.25	43.01
Greensboro	4.14	4.55	6.48	8.09	0.27	1.22	3.76	4.00	2.30	1.67	2.01	2.60	41.09
Greenville	1.82	5.25	3.44	10.38	1.98	0.74	2.84	7.58	2.16	1.81	2.61	5.33	45.94
Guin	2.55	7.07	7.23	8.20	.....	.....	.....	.....	.....	.....	.....	.....	.....
Guntersville	4.21	7.05	2.47	8.39	1.51	2.12	4.90	3.98	3.91	2.05	5.31	2.34	48.24
Healing Springs	3.60	3.23	6.02	10.87	1.00	T.	6.41	1.15	1.98	0.80	0.97	4.45	40.48
Helena	4.07	4.85	4.11	7.37	0.61	3.39	6.74	4.22	4.51	1.68	2.65	3.41	47.01
Highland Home	2.16	6.56	3.82	8.42	1.25	1.91	5.68	2.55	1.78	2.14	6.06	4.42	46.75
Leeds	.....	.....	.....	5.48	1.65	.....	.....	4.63	4.46	1.61	3.99	3.68	.....
Lock No. 4	4.55	8.86	5.25	4.87	1.40	1.30	8.26	3.40	3.64	1.84	4.17	3.70	51.24
Madison	2.84	6.05	4.57	5.45	1.50	0.85	5.03	3.24	4.82	2.65	3.90	3.84	44.74
Maple Grove	5.91	9.67	2.35	4.25	1.26	2.95	7.49	7.96	4.72	1.76	4.26	2.34	54.92
Marion	4.13	7.01	7.07	5.21	0.97	1.13	5.24	3.18	0.83	1.68	2.74	2.02	41.21
Mentone	4.92	7.31	3.21	7.80	3.79	3.16	5.20	6.36	4.25	3.39	7.06	3.92	60.37
Milstead	4.12	5.70	4.19	7.06	2.83	0.82	6.34	3.32	1.97	5.13	4.56	3.78	49.82
Mobile	1.89	1.41	6.71	4.43	3.07	3.97	4.89	8.37	3.74	1.42	3.79	5.54	49.23
Montgomery	2.84	4.87	5.75	6.55	1.87	3.08	6.67	3.49	3.02	2.87	5.77	2.71	49.49
Oneonta	4.53	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ozark	2.21	1.74	4.19	8.28	2.77	1.66	9.54	3.19	2.47	2.31	1.51	2.34	42.21
Prattville	2.43	3.39	5.44	4.59	0.85	0.55	3.11	2.90	2.88	1.88	6.52	3.02	37.56
Pushmataha	2.48	3.29	7.56	.....	2.67	1.89	5.88	5.75	0.99	0.46	2.09	3.68	.....
Riverton	3.11	6.63	6.40	7.49	0.78	2.09	6.27	6.23	3.15	3.20	3.83	1.64	50.82
Robertsdale	1.22	2.08	4.99	5.18	2.35	0.45	3.48	5.20	1.89	2.15	2.65	4.42	36.06
Scottsboro	3.82	5.97	3.94	6.04	1.54	4.27	3.80	6.26	4.41	3.83	4.80	3.00	51.68
Selma	3.33	6.62	6.06	5.52	1.37	1.24	3.82	4.31	1.51	0.83	3.57	3.54	41.72
Silverhill	1.06	2.07	5.82	4.86	3.76	0.73	8.92	7.96	2.70	1.71	3.61	4.03	47.23
Spring Hill	1.98	1.17	.....	2.10	3.03	0.38	8.52	9.03	2.22	1.35	4.29	4.62	.....
St. Bernard	4.80	7.48	4.76	8.79	3.99	1.85	3.81	4.42	6.30	3.79	4.38	2.99	57.36
Talladega	5.72	7.03	4.80	6.95	2.56	1.12	4.35	2.55	0.85	4.85	4.70	4.10	49.58
Tallassee	2.83	4.78	3.69	5.00	3.13	1.02	4.22	3.39	2.64	3.68	2.28	2.40	39.06
Thomasville	3.86	4.63	2.65	.....	1.34	2.54	5.96	3.08	1.83	1.17	3.57	5.13	.....
Troy	2.00	4.15	5.62	7.39	2.68	0.20	5.21	4.32	0.73	2.14	2.78	3.25	40.47
Tuscaloosa	4.08	6.21	6.55	7.42	0.09	2.96	4.40	2.21	2.06	1.72	2.77	5.72	46.19
Tuscumbia	3.58	6.90	4.79	6.48	1.26	1.68	4.61	4.12	6.49	2.77	3.93	2.42	49.03
Tuskegee	1.79	3.95	2.37	4.55	2.97	0.40	4.14	4.18	0.70	1.57	3.98	2.11	33.81
Union Springs	1.96	5.45	7.59	7.90	4.28	0.93	5.63	4.49	0.83	2.40	5.35	4.89	51.70
Uniontown	3.43	6.90	6.24	6.62	0.45	1.86	2.27	5.77	0.93	1.07	3.31	3.60	42.45
Valley Head	4.35	7.34	2.83	6.45	3.83	2.83	5.14	3.40	3.20	3.19	4.21	1.92	48.69
Wetumpka	2.25	4.57	5.16	5.72	0.97	1.89	4.72	3.08	2.44	2.71	4.59	2.98	41.08
Alaska.													
Akiak	.....	0.26	2.88	0.05	0.41	0.33	2.07	5.15	1.51	1.71	0.73	1.00	.....
Akuinrak	.....	.....	.....	.....	.....	.....	.....	3.09	0.85	0.97	0.43	.....	.....
Allakaket	.....	0.84	1.70	0.18	0.25	1.53	2.67	1.38	1.31	1.63	0.45	1.97	.....
Anchorage	1.00	0.50	0.66	0.25	0.23	0.80	2.09	3.68	2.68	3.01	6.03	1.11	15.44
Aniak	0.50	0.02	1.82	T.	0.58	0.86	2.81	3.33	1.31	2.02	0.13	1.89	15.27
Annex Creek	3.08	9.72	4.34	3.40	5.56	1.91	6.46	7.44	11.28	19.53	6.54	14.13	93.39
Attu	8.69	1.87	6.00	4.11	5.45	7.02	.....	.....	.....	.....	.....	.....	.....
Barrow	0.20	0.30	0.13	0.08	0.29	0.30	0.92	0.36	0.56	0.55	T.	0.32	4.01
Calder	9.43	13.43	4.79	8.09	3.81	6.53	2.42	3.61	13.99	19.64	6.69	17.77	110.20
Chickaloon	.....	.....	0.79	.....	0.28	1.23	2.79	1.49	1.83	2.04	T.	1.91	.....
Chitina	1.93	1.61	0.24	0.34	0.59	0.69	1.56	0.85	0.51	0.71	0.10	2.36	11.49
Cordova	8.12	17.77	4.10	9.69	6.77	2.09	8.85	4.79	16.21	19.45	5.63	16.35	119.82
Council	0.90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Crooked Creek, claim 2	.....	.....	.....	.....	.....	0.60	1.35	1.11	1.08	.....	.....	.....	.....
Dillingham	0.35	0.59	1.23	0.40	0.33	0.27	1.01	2.04	2.79	2.13	2.51	1.29	14.94
Dutch Harbor (A)	0.69	10.92	7.45	1.47	6.04	2.86	2.65	1.47	4.30	3.38	2.70	2.76	46.69
Eagle	0.27	0.28	0.45	0.69	0.43	1.13	1.88	0.61	1.02	0.52	0.07	0.51	7.86
Fairbanks (near)	0.94	0.16	3.72	T.	0.52	0.98	1.35	1.08	1.19	2.57	0.15	0.73	13.39
Fortmann Hatchery	10.85	22.10	4.80	6.65	5.16	9.42	4.60	7.40	14.61	30.31	10.45	20.87	147.22
Fort Yukon	0.46	0.03	0.46	0.06	0.65	.....	.....	.....	.....	0.80	0.20	0.16	.....
Healy	.....	.....	.....	.....	.....	2.79	1.81	2.49	2.32	1.66	0.23	0.99	.....
Holy Cross	.....	0.12	2.88	0.26	0.42	0.61	2.04	3.23	1.58	1.78	0.41	.....	.....
Hurricane Gulch	1.61	1.28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hydaburg	.....	.....	.....	8.09	2.70	7.98	2.15	3.62	12.55	15.59	4.83	.....	.....
Igloo	0.45	0.16	0.62	0.33	0.44	.....	.....	.....	.....	.....	.....	.....	.....
Iliamna	1.34	2.00	1.29	3.85	0.39	1.01	2.91	2.84	.....	.....	.....	.....	.....
Juneau	4.13	8.86	6.53	4.03	6.11	1.86	7.09	7.94	8.61	11.56	5.96	12.68	85.36
Kake	2.64	6.63	2.85	2.41	2.73	3.12	3.32	3.31	6.55	10.62	2.36	8.61	55.15
Kennecott	0.36	1.30	1.37	1.23	1.00	.....	4.40	1.30	2.20	2.05	0.43	.....	.....
Ketchikan	11.53	24.51	4.37	6.21	5.71	11.23	7.08	8.31	15.52	30.33	16.58	20.45	161.83
Kodiak (Radio Station)	.....	.....	.....	.....	1.83	.....	.....	.....	2.75	3.00	.....	.....	.....
Kodiak (Experiment Station)	1.32	4.19	0.54	4.47	1.02	6.62	3.16	7.67	4.38	5.15	2.23	2.83	43.58
Latouche	8.50	17.95	6.65	18.31	4.76	1.79	11.15	6.36	21.39	18.57	10.81	19.60	143.84

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Alaska—Continued.													
Matanuska	0.83	0.08	0.75	1.25	0.81	1.10	1.57	3.93	1.80	3.57	0.04	2.26	17.99
Naknek											0.70		
Nenana	0.31	0.09	2.24	0.10	0.53	1.32	1.45	1.88	1.27	2.32	0.00	0.45	11.96
Noatak	0.78			0.10	0.40				0.72				
Nome	2.22	0.44	1.70	0.42	0.90	0.86	1.67	5.15	1.60	1.19	0.86	3.05	20.06
Noorvik	1.29	0.33	1.26	0.20	0.45	0.37	1.21	2.93	0.82	1.12	0.45	1.99	12.42
Nulato	2.12	0.15	4.64	0.41	0.29	1.22	1.37	2.18	2.03	2.01	0.42	1.93	18.77
Perseverance Camp	6.75	11.96	7.47	7.56	9.95								
Rampart	0.40	0.23	1.42	0.01	0.17	1.08	0.96	2.55	0.53	1.21	0.04	1.15	9.75
Ruby	0.77	0.48	2.25	0.20	1.06	1.03	1.83	2.42	2.43	1.21	0.14	1.13	14.95
St. Michael											0.05		
St. Paul Island	1.61	0.65	2.02	1.10	0.42	1.20	3.59	4.19	2.68	2.51	3.58	2.15	25.70
Salmon Creek Beach		6.56	4.84			1.83	5.56						
Salmon River	0.35												
Seldovia	3.86	5.48	0.63	4.08		0.11							
Seward	2.70	2.66	2.40	6.73	1.19	0.61	2.45	3.38	15.28	13.40	2.39	7.85	61.04
Shaktoolik	0.80	0.12	1.13								0.01		
Shismaref			0.27	0.10	0.11	0.41				1.03			
Sitka	6.39	8.44	7.52	4.94	5.46	2.16	3.84	5.73	7.78	15.65	7.00	12.45	87.36
Skagway	0.82	1.50	0.70	0.71	1.10	1.03	0.87	1.94	2.15	3.52	0.89	2.86	18.09
Speel River					7.68	2.42	6.45	9.63					
Summit (Mile 313)					0.02		1.16	2.10					
Talkeetna	0.77								2.42	8.91	0.00	2.24	
Tanana	1.38	0.46	2.90	0.14	1.48	0.83	0.93	2.63	1.91	0.76	0.07	0.70	14.19
Thane	3.12	7.36	5.34	2.75	4.91	2.31	5.32						
Tunnel												9.74	
Valdez	4.91	6.02	3.25	3.00	1.62	1.92	4.79	2.76	5.89	6.87	1.67	7.90	50.60
Wrangell	6.11	10.31	2.43	3.17	5.32	2.18	4.08	6.79					
Wiseman				0.43	0.12	0.12							
Yakutat	8.41	10.09	4.88	5.53	8.26	3.38	12.06	5.34	10.38	13.72	6.87	11.06	99.98
Arizona.													
Ajo	0.25	0.05	0.07	0.07	0.56	T.	3.38	3.07	1.29	0.40	0.11	0.59	9.84
Alamo Ranger Station	0.43		0.02	0.38	0.12	0.31	9.11	3.71	0.14	1.08	0.82	1.77	
Alpine		0.08	0.21	T.		1.65	5.77	4.28	1.20	0.51	T.		
Ashdale Ranger Station	0.90	0.75	1.00	1.02	0.53	0.03	5.78	6.70		3.50		5.00	
Ashfork	1.26	0.13	0.75	0.13	1.00	0.43	1.72	4.03	0.00	2.23	0.32	2.23	14.23
Avondale	0.20	0.03	0.12	0.02	0.04	0.00	0.64	3.39	0.59	0.20	0.10	1.98	7.31
Aztec	0.76	0.03	0.73	0.00	0.01	0.00	0.09	1.70					
Benson	0.25	0.10	0.00	0.00	0.00	T.	5.51	5.09	0.52	T.	0.25	T.	11.72
Big Springs Ranger Station						0.08	3.94	2.64	0.38	2.11			(1)
Bisbee	0.38	1.21	0.70	0.08	0.00	0.63	8.48	3.78	0.49	1.05	0.57	0.59	17.96
Blue	0.77	0.52	0.76	0.16	0.97	1.20	5.46	6.81	0.94	0.97	1.12	0.92	20.10
Bowie	0.24	0.76	0.18	0.06	0.00	0.12	2.73	2.47	0.29	0.27	0.12	0.50	7.74
Buckeye	0.20			0.05	0.05	0.00	0.70	3.08	0.30		0.00	1.37	
Canille	0.32	0.63	0.57				9.46	4.44					
Canon	0.65		0.68	0.36	0.30	0.01	6.29	1.92	1.64		0.03	3.52	
Casa Grande	0.41	0.18	0.00	0.12	0.00	T.	1.57	0.90	0.42	0.18	0.00	0.60	4.38
Cedar Glade	0.86	0.25	1.06	0.15	1.12	0.20	2.22	5.26	0.20	3.48	0.50	3.40	18.70
Chandler	0.44	0.26	0.07	0.10	T.	0.00	2.77	1.30	0.50	0.25	0.12	1.30	7.11
Childs	0.15	0.78	0.40	0.60	T.	0.00	4.59	3.00	0.00	0.00	0.00	3.36	12.88
Chin Lee	0.25	T.	0.07	T.	T.	1.19	0.90	1.89	0.04	1.31	0.09	0.93	6.67
Clemenceau	0.40	0.03	0.52	0.09	0.55	0.23	2.61	1.92	1.50	0.15	0.36	2.14	10.50
Clifton	0.29	0.24	0.05	0.04	0.12	0.59	3.62	4.74	0.16	0.33	0.02	0.65	10.85
Cochise	0.46	0.22	0.07	0.11	0.05	0.21	6.43	4.97	1.23	0.37	0.06	0.64	15.42
Constellation								2.08	0.75	1.64	0.07	2.42	
Continental	0.34	0.33	0.17	0.80	0.00	0.20	4.54	5.64	1.12	0.17	0.36	0.46	14.13
Cosnino	0.46	0.10	0.96	1.95	0.35	0.30	3.51	5.42	T.	1.61	0.28	1.75	17.19
Crown King	2.00	1.50	2.40	1.80	1.53	0.00	7.55	7.40	0.50	2.50	0.20	7.80	35.18
Douglas	0.12	0.86	0.19	0.00	T.	0.05	4.52	1.90	0.63	0.47	0.37	0.19	9.30
Dudleyville	0.53	0.29	0.03	0.51	0.02	0.25	7.31	2.81	0.75	0.32	1.03	0.37	14.22
Elgin	0.28	0.12	0.47	0.40	0.00	0.83	8.29	3.52	0.06	T.	0.62	0.53	15.12
Fairbank	0.30	0.24	0.08		0.60		10.21	6.06	0.21	T.	0.14	0.29	
Flagstaff	1.33	0.42	1.06	1.01	2.00	1.63	3.78	4.74	0.83	2.08	0.33	3.82	22.43
Florence							4.50		0.07	0.60	0.12	0.90	
Fort Apache			0.14	0.26	0.12	0.26	6.33	4.75	0.01	0.89	T.	0.95	
Fort Grant	0.04	0.41	0.07	T.	0.00	0.55	7.70	3.17	0.38	0.62	0.00	0.35	13.29
Fort Valley	2.70	0.47	1.49	1.47	2.37	0.83	4.93	4.67	0.19	3.13	0.65	4.52	27.42
Gila Bend	0.20	0.00	0.20	0.15	0.10	0.00	1.45	1.58	0.35	0.05	0.10	1.20	5.38
Gisela	0.85	0.34	0.60	0.46	0.71	T.	5.19	4.10	1.50	1.21	0.81	2.46	18.22
Globe	0.44	0.49	0.00	0.48	0.11	0.11	6.77	4.22	0.14	1.24	0.76	1.81	16.57
Goodyear	0.55	0.09	0.05	0.15	0.05	0.05	1.66	1.26	0.06	0.85	0.15	1.64	6.56
Gould's Ranch		0.04	0.04	0.05	0.30	0.30	0.56	1.27	0.40				
Grand Canyon	1.00	0.48	1.11	0.53	0.79	0.48	2.45	4.02	0.21	2.07	0.89	1.75	15.78
Granite Reef Dam	0.65	0.05	0.13	0.24	0.17	0.00	1.04	1.18	0.05	0.30	0.13	1.69	5.43
Greer	0.57	0.37	0.84	0.53	0.99	1.03	9.01	7.95					
Heber	0.90	0.60	0.17	0.77	1.67	0.47	6.26	6.56	0.23				
Helvetia								6.67	1.50	0.34	0.24	0.50	
Henry's Camp	1.10	0.47	0.34	0.47	0.69	0.18	7.22	8.33	0.40	0.82	0.17	1.07	21.16
Hereford	0.15	0.88	0.95	0.03	T.	1.10	8.88	2.70	T.	1.03	0.07	0.01	15.80
Higley	0.47	0.22	0.07	0.13	0.09	0.96	2.80	1.13	0.13	0.18	0.13	1.78	7.19
Holbrook	0.01	0.25	0.00	0.24	0.02	0.82	4.10	2.21	0.85	0.05	T.	0.64	8.69
Honeymoon		0.30				0.39	6.79	5.43	0.83				
Indian Oasis	0.00	0.10	0.09	0.55	0.00	0.00	4.41	3.43	1.70	0.45	0.00	0.22	10.95
Injalo	0.40	0.95	0.00	0.13	0.09	0.00	3.31	2.08	0.00	1.22	0.60	0.64	10.92
Jerome	1.11	0.15	1.22	0.50	1.02	0.20	6.34	4.14	0.23	0.44	0.61	2.99	18.95
Kayenta	0.30	0.10	0.16	0.17	0.50	0.72	1.21	4.65	0.00	1.21	0.04	1.35	10.91
Keams Canyon	0.35		0.36	0.25	0.60	0.65	4.57	7.13	0.00				
Kingman	4.34	0.11	0.71	0.09	1.18	0.00	0.90	1.31	0.97	1.24	0.16	2.79	13.80
Lakeside	1.04	1.49	0.16	0.11	0.65	0.79	4.84	7.82	0.63	0.65	0.35	0.80	18.53
Lee's Ferry Evaporation Station										0.80	0.15	0.75	
Leslie Canyon	0.12	1.08	0.12	T.	0.06	0.69	4.74	2.73	0.53	0.32	1.01	0.21	11.01
Leupp	0.30	0.00	T.		0.00	0.50	1.05		0.02	0.00	T.	0.64	
Lewis Springs	0.27	0.50	0.42	T.	0.00	0.23	8.30	2.71	0.53	0.55	0.12	0.20	14.33

[1] See report for Ryan.

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Arizona—Continued.													
Light							9.71	2.18					
Maricopa	0.34	0.18	0.07	0.07	0.12	T.	3.06	1.42	0.45	0.10	1.55	1.79	9.15
Marinette	0.30		0.16	0.19	0.13	0.10	1.81	3.97	0.35	0.60	T.	1.88	
Mesa Experiment Farm	0.30	0.10	0.02	0.05	0.10	T.	0.45	1.48	0.00	0.83	0.19	1.04	4.56
Miami	0.53	0.91	T.	0.71	0.16	0.33	7.22	6.54	0.60	0.42	0.83	2.49	20.74
Moccasin	2.49	0.09	1.50						T.	1.33	0.88	4.15	
Mohawk	0.87	0.00	0.57	0.00	0.00	0.00	1.09	1.27	1.00	0.00	0.00	0.40	5.20
Mormon Lake Ranger Station					1.84	0.27	2.83	6.43	0.17	2.45			
Mount Trumbull	1.92	0.24	0.30	0.27	0.92	T.	1.99	3.81	T.	2.62	0.25	3.81	16.13
Naco	0.10	1.15	0.63	T.	0.00	0.57	5.11	3.35	0.67	0.56	0.31	0.15	12.60
Natural Bridge	1.01	0.82	1.26	1.04	0.70	0.26	5.24	4.58	T.	2.85	0.93	3.85	22.54
Nogales	0.22	0.38	0.53	0.25	T.	0.46	4.45	4.75	0.73	0.21	0.24	0.58	12.80
Oracle	0.35	1.50	0.25	1.30	0.00	0.00	9.39	4.85	0.00	1.15			
Osborn							6.02						
Paradise	0.31	1.55	0.75	0.43	0.08	0.25	8.61	7.75	1.18	0.62	1.13	0.77	23.43
Parker	1.29	0.00	0.64	T.	0.25	0.01	1.57	2.43	1.05	1.76	T.	2.21	11.21
Patagonia							6.05						
Payson							5.82	5.44	1.62		0.82	3.13	
Phoenix	0.13	0.11	0.03	0.02	0.17	0.04	0.38	1.62	0.33	0.11	0.04	0.87	3.85
Pinal Ranch	0.75	1.06	0.00	0.82	0.00	0.36	5.17	5.14	0.23	2.11	1.42	2.59	19.65
Pinedale	0.29	0.75	0.11	0.45	0.36	0.64	4.27	9.00	0.42	1.08	0.32	2.12	19.81
Pinto	0.27	0.80	0.12	0.50	0.12	1.46	3.93	2.68	0.19	0.35	T.	1.14	11.56
Portal	0.16	1.28	0.67	0.18	0.18	0.09	8.13	4.18	1.46	0.95	1.51	0.50	19.29
Prescott	1.45	0.59	1.20	1.06	1.47	0.18	4.71	2.72	1.20	0.64	0.65	5.29	21.16
Prescott Dry Farm	0.79	0.19	0.60	0.19	1.20	0.05	5.65	3.31	0.40	2.59	0.50	1.70	17.17
Quartzsite	0.77	0.05	0.29	0.00	0.17	0.00	0.86	1.38	1.45	1.93	0.00	1.24	8.14
Redrock		0.25	0.00		0.00	0.03	3.67	1.02	0.65	0.27	0.07	T.	
Reno Ranger Station								3.49			0.68	3.80	
Roosevelt	1.05	1.32	0.10	1.34	0.37	0.14	4.32	4.87	0.29	1.68	0.83	3.10	19.41
Rosemont	0.43	0.51	0.11	0.40	0.00	0.32	6.76	5.21	0.53	0.71	0.55	0.68	16.21
Rucker Canyon	0.41	1.48	0.67	0.26	0.15	0.28	8.77	5.82	1.37	0.65	1.18	0.78	21.82
Ryan	1.39	0.46	0.40	2.18	0.69						1.34	4.13	[2] 19.74
Sacaton	0.44	0.34	0.09	0.08	0.09	T.	2.41	3.26	0.39	0.23	0.11	0.80	8.24
St. Johns	0.53	1.42	0.87	0.16	0.31	1.18	7.11	3.58	0.80	0.37	0.14	1.00	17.47
St. Michaels	0.28	0.62	T.	0.08	0.54	0.68	2.13	5.51	T.	0.57	T.	1.54	11.95
Salome	0.59	0.16	0.47	T.	0.03	0.02	0.88	2.40	0.61	2.05	T.	1.96	9.17
San Carlos	0.16	0.25	0.06	0.10	0.01	0.00	5.56	1.62	0.18	0.56	0.28	0.67	9.45
San Simon					0.08	0.15	3.53	2.12	0.47	0.07	0.47	0.59	
Santa Margnerita	0.30	0.42	0.22	0.00	0.00	0.26	5.58	5.92	1.93	0.88		0.70	
Seligman		0.24	1.98	0.05	0.17	T.	2.36	7.55	0.50	3.70	0.30	3.77	
Show Low	0.54	1.95	0.01	0.65	0.82		5.80	4.10	0.97			1.54	
Snowflake	0.19	0.36	0.10	0.11	0.15	0.86	6.59	5.38	0.05	0.12	T.	1.04	14.95
Soldier Camp									5.09				
Springerville	0.10	0.00	0.67			0.60	7.89	6.69	0.19	0.96	0.10	1.22	
Spring Valley Ranger Station	0.60	0.10	0.25	1.35	2.14	0.40	4.76		1.10	1.80	1.00	1.40	
Sunset Ranger Station	0.26	1.82	0.35	0.07	0.16	0.53	7.64	4.26					
Supai					0.07	T.	0.72	3.32	0.00	1.61	0.58	1.15	
Superior	0.68	0.92	0.02	0.78	0.02	0.01	5.84	3.02	0.56	0.96	0.94	0.94	14.69
Sycamore Ranger Station	0.55	0.50	2.00	1.00	0.02	0.00	6.08		0.00	3.30	0.04	1.95	
Tempe Date Orchard	0.35	0.10	0.00	0.10	0.18	0.01	0.38	1.17	0.05	0.55	0.21	1.07	4.17
Thatcher	0.27	0.35	T.	T.	0.00	0.25	2.38	1.47	0.00	0.20	0.10	0.10	5.12
Tombstone	0.35	0.73	0.35	0.18	0.00	0.21	6.97	4.56	3.53	1.11	0.11	0.45	18.55
Tonto Ranger Station	1.89	0.20	2.14	0.45	1.65	0.10	3.43		0.59	2.51	0.48	4.91	
Truxton	2.20	0.24	0.83	0.69	1.20	0.60	1.57	3.48	0.62	2.66	0.25	2.41	15.55
Tuba City	0.16	0.02	0.20	0.00	0.40	0.60	1.91	1.57	0.00	0.50	0.25	1.50	7.11
Tucson	0.26	0.34	0.08	0.54	0.00	0.21	6.27	2.66	3.19	0.16	0.30	0.02	14.03
University of Arizona	0.34	0.47	0.13	0.62	T.	0.22	0.24	1.79	3.01	0.25	0.59	0.12	13.78
Walnut Creek Ranger Station	1.93	0.27	1.23	0.42	1.03	0.25	4.47	2.63	0.20	2.04	0.30	2.40	17.27
Walnut Grove	1.15	0.95	1.82	0.44	0.85	0.16	4.27	4.10	1.10	1.46	0.15	4.13	20.58
Wickenburg	0.46	0.44	0.67	0.31	0.29	0.00	4.60	2.32	1.19	0.50	0.00	2.61	13.39
Willcox	0.67	0.27	0.19	0.19	0.10	0.33	3.32	2.99	0.61	0.05	0.60	0.60	11.92
Williams	2.60	0.80	1.24	1.68	1.75	0.32	4.41	7.08	0.83	3.23	1.42	4.44	29.80
Windmill Ranch	0.66	0.08	0.33	0.31	0.86	0.21	2.59	2.00					
Winslow	0.16	0.12	T.	0.95	0.46	0.57	2.29	3.21	0.13	1.00	0.00	0.45	9.34
Yaeger Canyon		0.40	0.95	0.28	1.38	0.21	6.40					2.26	
Young	0.98	0.31		0.00	1.00	T.	7.30	4.96	1.11	1.47	1.31	3.90	
Yuma (Weather Bureau)	0.70	0.03	0.09	0.00	0.06	T.	0.05	1.44	3.65	0.04	0.00	0.92	6.98
Yuma (Citrus Station)	0.88	0.00	0.00	0.00	0.06	0.00	0.42	1.58	3.48	0.00	0.00	0.89	7.31
Yuma (Date Orchard)	0.52	T.	0.11	0.00	0.04	0.00	0.03	0.95	2.53	0.00	0.00	0.95	5.13
Yuma (Evaporation Station)	0.80	0.00	0.22	0.00	0.06	0.00	0.05			0.75	0.00	1.08	
Arkansas.													
Amity	2.19	2.98	6.09	3.72	1.49	5.14	3.45	7.04	2.92	0.83	3.43	3.83	48.06
Arkadelphia	2.12	2.08	7.47	9.10	1.15	3.85	2.55	8.15	4.05	1.35	1.90	4.02	47.79
Arkansas City	3.37	2.69	5.52	9.54	1.70	3.43	4.97	2.16	6.96	0.41	2.87	4.54	48.06
Bald Knob	6.60	4.41	7.87	6.24	1.77	3.45							
Batesville	1.65	3.18	6.41	5.95	1.60	3.12	1.80	6.19	3.40	0.77	7.24	3.42	44.73
Bee Branch	1.65	2.40	7.35	6.95	1.75	4.45	1.15	6.15	3.65	0.20	6.70	2.75	45.15
Bentonville	1.48	1.31	9.50	4.54	2.75	2.23	0.54	7.89	0.86	0.69	1.63	1.86	43.28
Black Rock	1.48	2.27	5.06	5.40	3.42	3.43	2.62	7.34	3.60	0.49	10.40	3.75	56.36
Booneville	1.80	3.52	3.99	6.70	2.92	4.47	2.17	4.12	3.86	1.44	9.21	1.42	45.62
Brinkley	1.86	7.14	10.56	8.70	2.98	2.17	1.69	5.65	4.20	0.87	3.98	2.76	52.46
Calico Rock	1.26	2.99	6.80	5.94	2.71	2.59	2.41	6.20	2.04	0.55	6.99	1.82	42.10
Camden	1.49	2.72	7.15	6.45	1.60	4.57	3.14	3.62	5.36	0.86	2.72	4.74	46.12
Centerpoint	1.30	1.68	6.56	10.00	4.15	6.86							
Clarendon	1.62	6.49	9.98	9.42	2.20	2.16	3.79	2.49	3.80	0.25	5.28	3.19	50.47
Clinton										0.55	9.18	3.02	
Conway	1.71	4.85	6.68	12.82	1.70	3.87	0.74	3.68	1.06	1.37	12.95	3.62	54.75
Corning	1.70	3.07	6.79	5.48	2.76	2.87	0.51	3.00	2.46	0.57	8.57	2.43	39.21
Danville	1.67	2.75	5.39	7.12	1.43	5.15	3.18	5.44	3.91	0.27	7.39	2.18	46.08
Dardanelle	1.90	2.42	6.60	6.36	2.83	3.26	2.75	5.88	1.83	0.38	6.45	1.55	44.41
Dodd City	2.46	3.17	5.62	5.74	2.22	6.21	2.01	5.79	1.94	0.41	5.79	1.81	43.17
Dumas	3.39	4.80	5.81	7.47	2.94	5.33	3.17	6.74	5.72	0.88	2.37	5.16	52.38
Dutton	2.81	3.95	6.99	7.93	2.67	11.76	1.41	5.92		1.03	5.44	3.31	

[2] Includes amounts measured at Big Springs Ranger Station during summer months.

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
***Arkansas*—Continued.**													
El Dorado	2.51	2.01	5.16	.....	4.07	4.15	.....	1.06	5.24	1.20	1.70	2.49	.....
England	2.11	6.85	8.93	8.63	1.83	3.76	1.00	6.92	2.66	0.62	4.04	2.46	49.81
Eureka Springs	1.68	2.52	9.37	5.51	2.56	5.21	0.69	9.35	4.82	1.27	2.87	2.51	48.36
Fayetteville	0.92	2.93	6.04	5.40	0.83	6.89	1.08	6.50	1.30	0.85	3.68	2.92	39.34
Fort Smith	1.39	3.03	3.81	5.40	1.18	6.50	3.15	4.45	1.24	0.13	5.22	2.23	37.73
Fulton	2.98	1.59	5.14	9.76	1.03	4.05	5.46	3.78	5.23	0.73	3.30	3.09	46.14
Georgetown	0.72	8.90	8.41	11.08	2.67	4.22	1.89	7.81	4.02	1.21	6.45	2.69	60.07
Gillett	2.06	4.32	5.65	7.38	1.40	4.02	2.98	3.99	.....	.....	.....	.....	.....
Grannis	3.02	2.51	3.78	12.48	1.59	12.63	5.43	6.84	2.52	1.01	5.20	2.88	59.29
Gravette	1.66	1.24	11.01	5.25	3.18	11.71	0.38	8.68	1.66	0.90	1.65	1.50	48.82
Hardy	0.76	2.65	3.01	5.09	3.11	5.35	.....	3.28	0.81	0.95	6.23	2.00	.....
Helena	2.07	6.86	10.19	12.18	1.76	3.50	4.38	6.30	3.62	1.16	5.56	3.54	61.12
Higden	1.43	2.39	4.84	6.85	5.49	4.30	2.27	5.58	2.53	0.22	7.75	3.46	47.11
Hope	3.39	2.50	6.06	8.92	1.27	4.23	3.51	2.95	5.68	0.59	3.89	3.05	46.04
Hot Springs	1.61	4.83	7.21	9.07	0.00	3.40	1.85	4.40	3.29	0.49	5.89	3.62	45.66
Huttig	3.13	2.76	7.72	6.10	4.27	2.21	4.47	4.43	0.67	0.39	1.73	3.21	41.69
Jonesboro	2.04	4.27	8.42	8.89	2.28	4.91	4.26	3.46	4.14	0.23	10.90	1.93	55.73
Junction	2.11	2.97	6.04	4.74	2.64	4.01	0.72	0.37	2.21	0.51	1.19	1.78	29.29
Little Rock	1.52	6.86	7.03	7.40	0.75	4.67	1.44	7.08	2.18	0.14	3.89	2.58	45.54
Lutherville	1.05	4.35	5.73	7.20	1.95	3.56	1.23	4.59	4.35	0.48	6.53	2.81	43.83
Magnolia	3.18	1.74	6.27	8.58	2.21	5.94	1.56	.....	2.90	.....	.....	1.35	.....
Malvern	2.39	3.08	7.57	10.19	1.53	5.77	4.90	7.85	3.57	0.70	2.80	4.78	55.13
Mammoth Springs	0.94	1.91	5.87	7.52	1.75	3.44	1.32	5.19	2.23	0.51	7.87	1.99	40.34
Marianna	2.12	6.72	8.26	.....	.....	.....	.....	.....	2.28	1.00	4.21	2.59	.....
Marked Tree	2.38	7.17	7.10	8.40	2.91	3.07	2.55	7.51	2.93	0.85	7.28	2.60	54.75
Marshall	1.80	4.84	7.67	7.53	2.92	2.83	1.96	3.64	2.46	0.75	9.05	1.79	47.24
Mena	2.64	3.18	2.98	10.51	2.36	9.31	3.36	8.59	3.25	0.93	6.07	2.74	55.92
Morrilton	.....	.....	.....	.....	2.09	6.11	2.22	7.57	2.38	0.44	7.59	3.20	.....
Mountain Home	1.69	2.97	7.35	6.94	1.81	4.66	0.87	6.50	4.43	1.03	6.15	2.89	47.29
Mount Ida	2.39	3.12	6.35	8.42	0.84	7.29	3.01	10.72	1.04	0.27	6.42	2.73	52.60
Murfreesboro	2.34	1.78	4.92	7.44	1.94	5.55	3.33	4.40	2.48	0.48	2.46	2.80	39.92
Nall	2.64	5.26	5.79	8.33	2.08	9.25	2.20	3.66	2.38	0.37	4.70	2.05	48.71
Newport	0.50	3.91	8.70	7.23	4.58	5.09	2.27	4.97	3.62	1.21	7.37	1.53	50.98
Okay	1.40	3.06	9.17	6.54	.....	4.94	2.39	7.30	3.59	.....	7.56	2.08	.....
Osceola	2.20	4.80	7.17	9.25	3.15	1.41	2.71	7.13	1.88	0.55	6.55	3.05	49.85
Ozark	2.24	4.98	3.69	7.16	3.23	4.48	0.30	2.83	3.07	0.91	7.10	2.00	41.99
Patterson	3.48	7.24	7.15	8.63	2.32	4.43	0.50	7.30	3.13	T.	6.90	1.45	52.53
Pine Bluff	2.37	4.43	6.69	11.33	1.46	4.35	1.68	4.98	3.91	0.88	4.66	3.27	50.01
Pocahontas	1.40	2.70	6.05	7.27	2.95	3.65	3.42	7.15	3.28	0.80	9.90	2.90	51.47
Portland	3.62	2.60	5.57	6.26	3.80	3.51	2.40	3.73	4.89	T.	2.48	4.23	43.09
Prescott	3.29	1.92	5.13	7.31	1.38	4.57	3.27	3.23	6.05	.....	.....	.....	.....
Princeton	3.12	2.69	7.92	9.32	1.73	4.49	3.65	2.81	4.39	0.52	2.80	3.43	46.87
Rison	3.07	3.16	6.06	9.50	2.00	2.76	1.89	3.47	2.24	0.58	3.02	3.17	40.92
Rogers	1.34	2.56	7.12	5.94	3.09	4.42	1.64	6.67	2.82	1.25	2.17	2.10	41.12
Searcy	1.30	4.20	9.05	5.96	1.96	2.88	2.50	7.55	2.21	0.23	13.77	1.94	53.55
Springbank	3.68	2.21	5.26	9.74	2.76	10.24	4.24	0.75	4.44	1.47	1.10	3.47	49.36
Stuttgart	1.72	5.32	8.90	11.70	1.98	3.46	1.27	4.61	3.84	0.22	4.05	2.79	49.86
Subiaco	1.70	3.87	5.29	7.05	2.48	3.88	1.67	6.13	5.44	0.37	8.67	1.46	48.01
Texarkana	3.30	1.57	5.91	10.37	2.81	4.65	5.25	1.76	4.16	0.94	4.02	3.79	48.53
Umphers	2.96	2.34	5.13	7.06	1.30	3.56	2.89	6.73	5.34	0.82	3.21	2.41	43.75
Waldron	1.13	4.54	3.47	10.41	1.90	5.00	1.37	7.56	5.72	1.12	10.48	2.42	55.12
Warren	2.96	3.31	4.57	6.43	2.25	2.16	3.39	4.44	4.15	0.35	2.08	2.99	39.10
Whitecliffs	2.50	1.00	4.60	6.00	0.30	5.45	3.21	6.05	5.90	0.40	2.20	.....	.....
Wynne	0.95	5.65	5.60	9.60	2.10	5.05	2.37	7.72	2.95	1.32	7.22	3.80	54.33
California.													
Abbotts	9.11	1.17	2.30	0.26	0.71	0.00	0.00	0.00	0.23	0.19	0.47	10.22	24.66
Agua Caliente	2.48	0.74	0.94	0.18	1.99	0.00	T.	1.41	1.00	0.31	0.07	11.22	20.34
Alder Creek	5.73	1.35	.....	0.55	3.45	0.00	0.00	0.00	T.	1.20	0.15	17.30	.....
Amargo	4.98	2.38	4.08	0.00	5.98	0.00	T.	0.45	1.30	2.78	0.02	17.82	39.77
Andreas Canyon	1.47	0.39	0.32	0.07	0.21	0.00	0.04	0.69	0.00	1.37	.....	9.90	.....
Andreas Garden	1.52	0.26	0.43	0.09	0.21	0.00	0.04	0.73	0.00	1.37	.....	.....	.....
Angida	1.55	0.55	0.78	0.02	1.71	T.	T.	0.00	T.	0.10	0.34	2.63	7.68
Antelope Valley	1.48	0.85	1.32	0.13	0.83	0.00	0.00	0.00	0.10	0.38	T.	3.01	8.10
Antioch	4.22	0.62	0.88	0.30	0.00	0.00	0.00	0.00	0.10	0.15	1.55	4.62	12.44
Arrowhead Springs	5.46	1.06	6.12	1.20	5.83	0.15	0.00	T.	1.47	1.75	0.47	15.71	39.22
Arroyo Seco	4.10	1.42	4.78	1.10	7.48	0.00	0.00	0.00	0.59	0.87	0.72	21.29	42.35
Atascadero	4.95	1.39	2.90	0.42	1.44	0.00	0.00	0.00	0.70	0.17	0.03	7.32	19.32
Auberry	7.75	2.80	3.30	0.45	2.61	0.00	0.00	0.00	0.23	0.00	0.00	8.61	25.75
Auburn	8.70	3.26	4.93	0.59	2.44	0.02	0.00	0.00	T.	0.62	1.55	9.74	31.94
Avalon	2.57	0.89	2.79	0.08	2.18	0.00	0.00	0.00	0.24	0.37	0.00	8.04	18.16
Baghdad	0.60	0.00	0.00	0.00	0.90	0.00	0.00	0.30	0.00	1.42	0.00	1.98	5.70
Bakersfield	1.56	0.83	0.27	0.42	2.39	0.00	0.00	T.	T.	0.57	0.55	1.88	8.47
Banning	5.23	.....	2.26	0.65	2.54	0.00	0.00	0.45	0.00	1.87	.....	14.60	.....
Barlow Sanitorium	4.31	0.83	2.58	0.32	3.93	0.00	0.00	0.00	0.81	0.28	0.04	9.07	22.16
Barrett Dam	3.30	1.28	1.64	0.61	4.02	0.00	0.25	0.22	0.34	2.58	0.56	13.40	28.20
Barstow	0.81	T.	0.77	0.00	0.99	0.00	0.00	.....	.....	.....	.....	.....	.....
Beaumont	4.01	1.20	3.28	0.52	3.60	0.00	0.00	0.69	0.64	1.93	0.36	14.43	30.66
Beaumont (near)	4.76	1.86	5.42	0.62	5.27	0.00	0.00	0.46	0.84	4.12	0.30	15.06	38.71
Belotta	5.74	1.37	1.50	0.12	1.27	0.20	0.00	0.00	0.00	0.11	0.96	4.58	15.85
Benson's Ferry	3.10	0.80	1.92	0.22	0.69	0.16	0.00	0.00	0.00	0.19	1.17	3.45	11.70
Berkeley	7.31	1.54	1.71	0.91	0.72	0.00	0.00	0.00	0.17	0.72	1.66	8.48	23.22
Bettersvia	3.11	1.96	1.00	.....	.....	.....	0.00	0.00	0.49	0.12	0.17	2.68	.....
Big Bar	8.16	6.17	2.30	0.64	1.60	0.08	0.00	0.00	.....	.....	3.44	3.59	.....
Big Bear Tavern	5.85	1.00	1.20	0.75	0.45	0.15	0.50	0.59	1.50	0.50	0.07	22.00	34.56
Big Sur	12.70	2.84	5.23	1.22	2.37	0.00	0.00	0.00	0.36	0.33	1.17	12.48	38.70
Bishop Creek	4.43	0.28	1.14	0.03	1.40	0.10	0.31	0.35	0.17	1.40	0.38	9.31	19.30
Blue Canyon	16.07	6.28	7.94	1.68	4.19	0.40	0.00	0.00	0.66	1.23	3.60	16.13	57.47
Blythe	0.88	0.14	0.29	0.00	0.07	0.00	T.	0.63	2.95	0.46	0.00	1.66	7.08
Bonita	3.06	0.71	1.36	0.03	2.61	T.	T.	0.28	0.35	1.73	0.23	8.63	18.99
Branscomb	14.94	9.82	9.08	2.04	2.42	0.56	0.00	0.00	1.24	3.28	8.62	11.38	63.38
Brawley	0.32	0.00	T.	0.00	0.14	0.00	0.00	0.23	0.70	T.	0.00	2.18	3.57
Brooks	.....	.....	.....	.....	.....	.....	0.00	0.00	0.00	0.35	1.00	5.71	.....
Bryant's Ranch	8.00	1.38	1.42	0.62	7.81	0.00	0.00	T.	0.04	0.56	0.14	17.55	35.22
Burkhart Ranch	4.94	0.00	2.61	0.18	2.65	0.00	0.20	0.08	1.04	0.34	0.45	14.42	26.9-

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
California—Continued.													
Cajon Ranger Station	.....	.....	.....	0.80	.....	.....	0.00	0.05	0.11	1.18	0.37	22.36	.....
Calexico	0.47	0.00	0.03	0.00	0.12	0.00	0.06	2.84	0.85	0.00	0.00	1.66	6.03
Camp Baldy	8.83	1.08	8.04	1.00	8.58	0.00	0.00	0.00	0.28	2.32	0.24	34.56	64.93
Campbell	5.64	1.33	1.01	0.43	0.92	0.00	0.00	0.00	0.14	0.31	1.69	5.68	17.15
Campo	2.90	0.51	0.95	0.15	2.50	0.00	5.30	0.60	0.35	2.12	0.38	11.85	27.61
Camptonville (near)	15.41	5.26	7.94	1.51	3.52	0.67	0.00	0.00	0.21	2.08	3.63	18.22	58.46
Canyon Dam	11.60	3.03	3.66	0.54	1.94	0.77	0.00	0.00	0.00	0.83	2.27	9.77	34.41
Cascada	7.41	2.91	3.64	0.74	1.95	0.03	0.00	0.00	0.55	0.47	0.60	13.86	32.16
Cedarville	1.91	1.12	0.50	0.12	2.17	0.59	T.	0.00	0.24	0.33	1.31	1.97	10.26
Centerville Power House	14.34	4.09	4.11	0.44	1.49	0.25	0.00	0.00	0.00	1.16	2.88	11.73	40.49
Chester	11.37	2.37	3.08	0.50	1.67	0.49	0.00	0.00	0.15	0.83	2.78	7.88	31.12
Chico	7.91	1.84	2.24	0.53	0.94	T.	0.00	0.00	0.03	0.96	2.69	6.43	23.57
China Flat	10.10	7.73	3.93	0.89	1.99	0.12	0.00	0.00	0.14	2.16	6.28	6.46	39.80
Chula Vista	3.14	0.44	0.75	T.	2.71	0.01	T.	0.04	1.60	0.60	0.09	8.26	17.64
Churn Creek	7.93	3.51	2.85	0.56	2.01	0.00	0.00	0.00	0.12	0.83	2.36	5.84	26.01
Claremont	4.13	0.81	7.10	0.49	4.99	0.03	0.02	0.00	0.02	2.10	0.18	10.47	30.34
Cloverdale	16.08	1.95	3.15	1.05	1.37	0.01	0.00	T.	0.21	1.66	2.19	8.97	36.64
Clovis	2.70	1.38	1.66	0.10	1.19	0.01	0.00	0.00	.....	.....	.....	4.62	.....
Coalinga	1.10	0.22	0.84	0.65	0.82	T.	0.00	0.00	0.18	0.16	0.04	3.17	7.18
Colfax	11.68	3.60	6.58	0.86	1.90	0.55	0.00	0.00	T.	1.12	2.12	11.44	39.85
Colgate	9.55	3.48	5.45	0.96	2.60	0.45	0.00	0.00	0.02	1.05	2.07	11.55	37.13
Colusa	4.88	0.34	1.20	0.42	0.35	0.30	0.00	0.00	0.00	0.82	0.91	4.97	14.19
Corona	3.42	0.94	1.81	0.14	2.55	0.08	0.02	0.00	1.00	2.81	0.05	10.59	23.41
Crescent City	15.44	13.44	6.50	3.32	4.30	2.02	0.00	0.07	2.37	5.13	15.09	10.02	77.70
Crockett	4.68	0.81	1.49	0.39	0.92	0.00	0.00	0.00	0.11	0.56	1.34	6.09	16.39
Cuyamaca	4.33	2.51	3.54	0.55	7.16	0.00	1.81	0.07	2.83	1.85	0.96	19.28	44.89
Davis	5.11	0.32	1.24	0.30	0.26	0.00	0.00	0.00	T.	0.21	1.62	4.39	13.45
Decker's Ranch	6.64	2.47	6.64	1.62	4.76	0.00	0.52	1.67	T.	4.56	0.50	25.04	54.42
Deer Creek	14.81	6.10	7.38	0.96	2.81	0.30	T.	0.00	0.39	0.92	2.93	16.87	53.47
Del Monte	4.73	1.64	1.23	0.33	0.83	0.00	0.00	0.00	0.88	0.00	0.64	7.80	18.08
Denair	4.72	0.73	1.16	0.16	1.24	0.00	0.00	0.00	0.30	0.10	0.75	5.44	14.60
De Sabla	21.92	5.57	6.39	1.20	2.45	0.38	0.00	0.00	0.04	1.80	3.81	13.05	56.61
Devore Ranch	8.45	1.14	8.50	1.58	7.60	0.00	0.00	.....	0.00	3.95	0.53	27.34	.....
Dinkey Meadow	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.84	25.46	.....
Dinuba	3.33	1.07	1.91	0.20	0.96	0.00	0.00	0.00	0.00	0.05	0.58	4.38	12.48
Dobbins (near)	9.04	3.41	5.43	0.88	2.74	0.44	0.00	0.00	0.02	1.18	2.43	11.07	36.64
Dobie Ranch	1.23	0.19	0.80	0.00	0.39	0.00	0.65	0.46	1.15	0.12	0.22	2.78	7.99
Dodgeland	5.84	1.14	1.56	0.38	0.83	0.12	0.00	0.00	T.	0.77	1.82	5.96	18.42
Downieville	17.33	5.79	6.98	1.15	3.38	0.56	0.00	0.00	0.13	2.36	2.91	17.94	58.53
Dudley	1.10	0.52	0.68	0.44	1.07	0.02	0.00	0.00	0.14	0.36	0.11	2.07	6.51
Dudleys	10.38	4.86	4.05	0.60	3.11	T.	0.00	T.	0.90	0.50	0.51	13.05	37.96
East Park	7.51	0.18	0.79	0.34	0.25	T.	0.00	T.	0.04	0.13	0.81	5.43	15.48
Echo Mountain	5.01	1.45	6.16	1.33	8.96	0.00	T.	0.00	0.00	1.92	0.13	19.39	44.35
Edison	1.66	1.59	0.49	0.28	3.35	0.00	0.00	0.00	0.00	0.24	0.83	1.96	10.40
El Cajon	2.62	0.84	1.27	0.18	3.69	0.00	T.	0.07	0.96	1.38	0.54	11.68	23.23
Electra	7.43	2.70	3.47	0.41	1.43	0.10	0.00	0.00	0.23	0.58	1.27	6.87	24.49
Elsinore	3.42	0.78	1.52	0.05	2.33	0.00	0.08	0.06	1.37	0.05	0.11	13.22	22.99
Emigrant Gap	9.00	3.70	5.67	0.25	1.65	0.00	0.00	0.00	0.10	1.53	2.15	11.50	35.55
Escondido (No. 1)	3.24	1.13	1.83	T.	2.90	0.06	0.01	0.12	0.92	1.44	0.21	11.32	23.18
Escondido (No. 2)	3.39	0.96	.....	.....	.....	.....	0.00	0.19	1.08	1.47	0.30	12.90	.....
Eureka	8.37	7.45	3.04	1.67	2.54	1.30	0.00	0.01	0.27	1.59	6.21	4.48	36.93
Fairmont	4.27	1.20	0.43	0.23	2.10	0.00	0.00	T.	0.35	0.28	0.15	12.06	21.07
Firebaugh	1.14	0.47	0.83	0.18	1.43	0.00	0.00	0.00	0.21	0.08	0.25	3.72	8.31
Fish Canyon	.....	0.31	5.73	1.03	5.65	0.00	T.	.....	.....	.....	.....	.....	.....
Folsom	5.37	1.34	3.43	0.33	1.65	0.00	0.00	0.00	0.18	0.41	1.42	6.06	20.19
Fontana	4.12	0.42	3.82	0.97	3.83	0.00	0.00	T.	1.61	1.06	0.29	13.76	29.88
Fordyce Dam	13.98	5.65	6.20	1.91	3.12	1.82	0.00	0.00	0.27	1.89	4.36	17.33	56.53
Fort Bidwell	4.76	1.82	1.06	0.26	1.72	0.50	T.	0.00	0.33	0.51	2.82	2.76	16.54
Fort Bragg	9.46	4.10	5.20	0.68	1.57	0.29	0.00	0.00	0.63	1.37	4.71	5.90	33.91
Fort Ross	16.70	3.56	3.23	1.30	1.60	0.01	0.00	0.00	1.26	2.13	4.75	7.34	41.88
Fresno	2.63	0.61	1.05	0.15	0.69	0.01	0.00	0.00	0.21	T.	0.26	3.47	9.08
Friant	4.17	1.61	0.93	0.11	1.30	0.00	0.00	0.00	0.10	T.	0.44	5.35	14.01
Georgetown	12.58	5.59	8.51	0.90	2.20	0.50	0.00	0.00	0.00	0.92	2.15	13.72	47.07
Giant Forest	.....	.....	.....	.....	.....	.....	T.	T.	0.50	1.07	0.70	17.13	.....
Glacier Point	6.97	3.60	2.25	0.90	1.70	2.00	0.00	0.00	0.04	0.18	0.68	13.30	31.62
Glennville (near)	3.32	2.10	1.95	0.85	3.79	T.	T.	T.	0.03	0.23	0.99	4.65	17.91
Grass Valley	12.44	4.42	6.27	0.89	2.54	0.59	0.00	0.00	0.04	1.23	2.67	13.59	44.68
Gray Mountain	1.45	0.71	.....	.....	.....	.....	.....	.....	0.50	0.24	T.	2.11	.....
Greenland Ranch	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.10	0.60
Haines Canyon	6.65	1.33	6.42	1.24	11.96	0.13	0.00	0.00	0.00	.....	0.14	.....	.....
Hanford	2.39	0.89	0.97	0.10	0.87	0.04	0.00	0.00	0.03	0.18	0.17	3.09	8.73
Hansen Ranch	6.55	1.48	6.37	1.20	8.65	0.00	0.02	0.02	0.45	0.64	0.38	29.97	55.73
Happy Camp	9.34	7.07	3.10	0.38	2.00	0.02	0.00	0.00	0.53	3.01	10.16	.....	.....
Hat Creek	3.58	1.27	1.56	0.48	1.02	0.30	0.00	0.60	0.12	0.30	0.47	2.82	12.92
Hayfork	6.42	4.76	8.43	0.14	2.04	0.06	0.00	0.00	T.	1.44	2.07	3.99	24.35
Head Dam	9.79	5.20	6.34	1.34	3.62	0.55	0.00	0.00	0.00	1.60	2.77	13.62	44.73
Healdsburg	16.27	1.89	3.23	0.93	0.94	0.00	0.00	0.00	0.29	1.46	2.24	9.85	37.16
Helen Mine	25.57	6.75	6.59	6.59	1.65	0.00	0.00	0.00	0.00	2.59	4.08	16.37	70.39
Hetch Hetchy	11.26	3.40	4.45	0.65	2.75	0.00	0.00	0.00	0.61	0.58	0.10	10.40	34.20
Hobbler's Camp	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.87	25.32	.....
Hollister	3.63	0.62	0.98	1.00	1.07	0.00	0.00	0.00	0.24	0.14	1.41	6.18	15.27
Hot Springs	4.12	3.01	3.33	1.41	3.41	0.11	0.00	0.00	T.	0.63	1.09	7.15	24.26
Hulville (near)	15.52	4.96	4.86	0.92	1.38	0.03	0.00	0.00	0.25	1.89	4.34	8.54	42.79
Huntington Lake	6.31	3.56	3.82	0.88	1.55	0.15	0.00	0.00	0.67	0.65	0.55	12.74	30.88
Hurley Flat	5.08	0.76	2.32	0.91	2.62	0.00	0.07	1.33	0.00	1.57	0.25	17.09	32.30
Idria	5.45	1.12	1.60	0.12	0.91	0.00	0.00	0.00	0.48	0.20	0.49	8.28	18.09
Independence	0.58	0.02	0.06	T.	0.54	0.01	0.06	0.08	0.01	0.43	T.	1.47	3.24
Indio	0.44	0.00	0.05	0.00	0.57	0.00	T.	0.72	1.24	0.06	0.04	3.44	6.56
Inskip	27.17	8.11	8.07	1.92	3.76	0.38	0.00	0.00	0.25	2.00	4.42	20.97	77.05
Iron Forks	7.43	1.40	7.32	0.93	7.90	0.00	.....	0.05	1.13	0.76	0.27	27.25	.....
Jenny Lind	5.52	1.75	1.67	0.14	1.03	0.05	0.00	0.00	0.03	0.31	1.23	4.63	16.30
Johnstone Ranch	3.29	3.47	2.88	0.12	2.68	0.00	0.00	0.00	2.43	0.29	0.13	8.74	24.03
Julon	5.33	0.66	2.45	0.42	1.19	0.00	0.00	0.00	0.15	0.10	0.00	7.74	18.04
Julian	4.64	2.53	3.16	0.82	5.22	0.00	1.81	0.91	1.65	2.13	1.00	22.77	46.64
Kennedy Mine	7.84	2.49	2.66	0.33	2.20	0.08	0.00	0.00	0.08	0.19	1.20	6.65	23.72
Kennett	23.07	5.55	3.87	0.84	2.36	0.10	0.00	0.00	0.40	1.91	5.76	11.65	55.30

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
California—Continued.													
Kentfield	10.56	2.43	3.11	0.89	0.70	0.00	0.00	0.00	0.32	1.13	1.55	9.50	30.19
Kernville	2.22	0.79	0.73	0.00	1.33	0.00	0.00	0.00	0.00	0.16	0.23	3.58	9.04
King City	3.66	0.77	1.25	0.50	0.85	0.00	0.00	0.00	T.	0.00	0.27	5.25	12.55
Kings River, North Fork	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.87	25.47	.....
Knights Landing	4.96	0.36	2.32	0.34	0.37	0.20	0.00	0.00	0.00	0.36	1.50	6.61	17.02
La Crescenta	4.73	1.41	4.59	0.94	6.50	0.00	0.01	0.01	0.00	.....	.....	20.33	.....
Lake Eleanor	8.81	3.49	4.41	0.70	3.24	0.26	0.00	0.00	0.60	0.77	0.00	7.76	30.04
Lakeport	9.86	2.00	1.70	0.56	0.55	0.00	0.00	0.00	0.08	0.82	1.96	6.46	23.99
Lake Spaulding	16.16	5.43	7.46	1.47	4.03	0.69	0.00	0.00	0.25	1.77	3.16	18.21	58.63
Lake Tahoe	10.28	2.66	2.19	0.67	2.68	0.18	T	0.00	0.09	0.52	1.31	8.42	29.00
La Porte	14.68	5.20	4.03	1.16	1.74	0.33	0.00	0.00	0.44	1.19	2.00	14.45	45.22
Las Plumas	13.80	3.95	4.22	1.87	1.28	0.26	0.00	0.00	0.08	1.79	3.68	12.46	43.39
Lathrop	3.15	0.64	.....	0.38	0.88	0.00	0.00	0.00	0.12	0.13	1.70	3.24	.....
Le Grand	3.49	1.58	1.37	0.75	1.79	0.00	0.00	0.00	0.05	0.00	0.70	5.48	15.21
Lemon Cove	2.89	1.87	1.33	0.11	2.08	0.04	0.00	0.00	0.15	0.07	0.48	4.77	13.79
Lick Observatory	6.52	3.55	2.84	0.53	2.66	0.00	0.00	0.00	0.27	0.26	1.97	7.51	26.11
Lindsay	2.26	1.43	1.02	0.51	2.01	0.01	0.00	0.00	T.	0.09	0.26	3.88	11.47
Litchfield	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.77	.....
Live Oak Canyon	3.96	0.89	6.80	0.74	4.75	0.00	0.00	T.	1.01	0.55	0.08	11.38	30.16
Little Rock Creek	4.77	0.90	1.52	0.00	1.52	0.00	0.00	0.00	T.	1.15	0.00	8.65	18.51
Livermore	3.38	0.59	0.83	0.16	1.05	0.00	0.00	0.00	0.05	0.15	1.17	3.38	10.76
Livingston	3.49	1.02	1.32	0.00	0.00	0.00	0.00	0.00	0.18	0.01	1.14	5.53	12.69
Llano	2.70	1.00	1.05	0.10	1.44	0.00	0.00	0.00	0.90	0.13	0.30	3.46	11.08
Lompoc	4.38	2.11	1.09	0.39	0.65	0.00	0.00	0.00	.....	.....	.....	.....	.....
Long Beach	4.31	0.72	3.76	0.09	2.88	0.00	0.01	T.	0.75	0.60	0.01	6.39	19.52
Los Alamos	3.77	1.80	1.06	0.34	1.47	0.00	0.00	0.00	0.84	0.32	0.09	5.77	15.46
Los Angeles	3.22	0.86	2.75	0.28	3.57	0.01	T.	T.	0.62	0.59	0.05	7.90	19.85
Los Gatos	13.71	2.34	2.19	0.59	0.98	0.00	0.00	0.00	0.15	0.34	0.88	12.73	33.91
Lower Haines Canyon	5.52	1.46	4.30	0.83	8.86	0.00	0.00	0.00	0.00	1.12	0.08	20.41	42.58
Lytle Creek	8.13	1.43	7.84	3.06	7.80	0.00	0.00	0.00	1.89	3.30	0.25	23.33	57.03
McCloud	15.37	4.12	6.20	0.82	2.65	T.	0.00	0.00	1.40	2.95	4.54	9.35	47.40
Madeline	3.15	2.30	1.33	1.24	2.85	2.30	T.	T.	0.02	0.27	0.74	0.97	15.17
Maricopa	1.02	0.52	0.31	0.29	1.70	0.00	T.	0.00	0.13	0.25	0.06	1.98	6.26
Mariposa	7.57	3.78	2.76	0.09	2.11	0.02	0.00	0.00	0.81	0.21	0.29	11.94	29.58
Markleeville	3.56	0.29	1.33	0.02	0.90	0.79	0.41	0.09	0.15	0.18	0.10	6.68	14.50
Marysville	5.33	1.16	3.43	0.35	1.40	T.	0.00	0.00	T.	0.55	2.25	6.79	21.26
May Canyon	4.29	1.44	3.35	0.97	8.74	0.00	T.	T.	0.13	0.72	.....	.....	.....
Mecca	0.15	T.	0.01	T.	0.32	0.00	T.	0.56	2.16	0.03	0.04	2.69	5.96
Melones	8.06	3.88	1.79	0.28	0.92	0.25	0.00	0.00	0.17	0.32	1.07	8.43	25.17
Merced	3.85	1.43	1.37	0.02	1.29	0.00	0.00	0.00	0.10	T.	0.76	5.57	14.39
Merced Falls	3.21	0.94	1.08	0.36	1.30	0.00	0.00	0.00	0.20	0.07	0.65	6.25	14.06
Mesa Grande	4.54	2.40	4.21	1.01	6.64	0.00	0.12	0.20	2.00	2.58	0.12	20.02	43.84
Middlewater	0.56	0.22	0.44	0.41	0.99	0.00	0.00	0.00	0.13	0.21	T.	1.94	4.90
Millard Canyon	3.44	.....	1.68	0.46	.....	0.00	T.	0.23	0.00	1.75	.....	.....	.....
Millard Forks	2.14	.....	5.04	0.72	5.83	0.00	T.	.....	0.00	.....	.....	.....	.....
Mill Creek (Amador County)[2]	10.93	5.03	4.94	1.13	2.22	0.60	0.00	0.00	0.40	0.97	1.42	10.78	38.42
Mill Creek (San Bernardino County)[2]	4.70	1.60	5.15	0.60	4.49	0.00	0.00	0.47	1.78	2.26	0.40	12.88	34.33
Milo	4.44	2.34	2.50	0.96	3.58	0.18	0.00	0.00	0.15	0.40	0.47	8.27	23.29
Milton (near)	6.39	2.17	2.29	0.10	1.81	0.07	0.00	0.00	0.04	0.28	1.30	5.17	19.62
Mission Valley	2.50	0.84	1.27	0.91	1.12	0.00	0.00	0.92	0.83	0.35	0.00	14.32	23.06
Mokelumne Hill	7.02	2.56	2.87	0.24	1.76	0.00	0.00	0.00	0.24	0.58	1.38	6.87	23.52
Monroeville	7.17	.....	.....	0.45	0.78	T.	0.00	0.00	0.00	0.50	1.40	5.88	.....
Monrovia Canyon	5.61	1.27	5.63	0.80	5.59	0.03	T.	0.30	0.85	0.86	0.06	12.69	33.69
Montague	2.02	2.87	0.66	0.41	1.94	0.08	0.00	0.00	0.00	0.00	2.07	1.71	11.76
Morango Valley	2.66	0.32	0.98	0.22	0.96	.....	0.00	0.79	T.	.....	0.00	11.90	.....
Mountain Springs	4.65	0.85	7.05	0.25	6.10	0.00	0.00	.....	0.97	0.45	0.40	14.81	.....
Mount Tamalpais	4.78	2.10	1.99	0.96	.....	.....	.....	.....	.....	.....	.....	8.45	.....
Mount Wilson	5.66	1.44	8.77	1.06	11.04	0.00	0.03	T.	0.22	1.12	0.11	29.40	58.85
Mouth San Antonio Canyon	5.18	1.05	9.55	1.40	6.68	0.00	0.00	T.	0.05	1.91	0.17	17.43	43.42
Napa	6.44	1.28	1.55	0.64	1.19	T.	0.00	0.00	0.16	0.62	1.55	5.66	19.09
Needles	1.32	0.21	0.14	0.32	0.78	T.	0.09	3.79	1.70	0.97	0.02	1.67	11.01
Neenach	1.62	1.00	0.25	0.47	2.24	0.00	0.00	0.00	0.46	0.17	0.00	5.19	11.40
Nellie	6.16	3.00	6.84	1.10	7.14	.....	.....	0.68	4.40	3.99	0.27	26.95	.....
Nevada City	13.13	4.06	6.13	0.95	2.60	0.63	0.00	0.00	0.04	1.05	2.10	12.80	43.49
Newman	3.36	0.71	1.01	0.00	0.34	0.00	0.00	0.00	0.37	0.03	0.45	1.01	7.28
Newport Harbor	3.45	.....	1.91	0.02	2.73	T.	T.	T.	0.42	1.06	T.	6.57	.....
Nicolaus	4.61	.....	2.21	0.37	0.40	0.00	0.00	0.00	0.00	0.52	1.26	4.96	.....
North Bloomfield	12.80	4.11	6.65	1.01	2.26	1.07	0.00	0.00	0.21	1.05	2.43	12.78	44.37
North Fork	9.44	3.23	4.12	0.77	2.73	0.37	0.00	0.00	0.49	0.38	0.84	13.68	36.05
Oakdale (near)	3.92	0.95	0.69	0.07	0.94	T.	0.00	0.00	0.06	0.00	0.80	4.42	11.85
Oak Grove	4.54	.....	.....	.....	.....	.....	1.79	2.11	1.55	0.04	0.21	.....	.....
Oakland	6.45	1.47	1.80	0.41	0.75	T.	0.00	0.00	0.20	0.67	1.70	6.07	19.52
Ojai Valley	7.03	1.47	3.00	0.39	3.64	0.03	T.	T.	0.24	0.63	0.02	12.81	29.26
O'Melveny Camp	6.02	1.34	8.13	0.96	5.87	T.	T.	T.	0.91	0.41	.....	.....	.....
Optid Camp	5.55	2.07	9.00	.....	.....	.....	.....	.....	.....	.....	.....	49.01	.....
Orland	7.15	0.82	1.74	0.24	1.53	0.16	0.00	T.	0.01	0.74	1.53	4.37	18.29
Orleans	8.92	8.34	4.12	1.26	2.23	0.13	0.00	0.00	0.27	2.17	9.72	4.72	41.88
Oroville (near)	6.56	1.78	2.88	0.50	1.07	T.	0.00	0.00	0.00	0.94	3.12	6.61	23.46
Ozena	3.78	1.14	0.52	0.43	1.18	0.00	0.08	0.00	0.28	0.52	0.22	5.99	14.14
Pacoima	4.20	1.21	4.00	0.74	9.33	0.00	0.00	0.00	0.00	0.88	0.00	12.42	32.78
Palmdale	2.55	0.81	0.16	T.	.....	0.00	.....	.....	0.15	0.24	0.06	4.06	.....
Parkfield	3.63	0.94	2.39	0.21	0.89	0.00	0.00	0.00	0.30	0.07	0.00	5.68	14.11
Pasadena	4.96	1.10	3.72	0.56	5.36	0.00	0.01	T.	0.25	1.51	0.08	12.46	30.01
Paso Robles (No. 1)	3.76	1.21	2.85	0.66	1.17	T.	T.	0.00	0.44	0.50	0.07	7.36	18.02
Paso Robles (No. 2)	3.76	1.07	2.61	1.02	0.96	0.00	0.00	0.00	0.49	0.44	0.13	7.88	18.36
Pattiway	2.40	0.96	0.74	0.66	2.08	0.15	0.00	0.15	0.00	0.00	0.60	2.51	10.25
Peachland	11.98	2.37	3.44	1.06	1.50	T.	0.00	0.00	0.44	1.26	2.68	9.16	33.89
Petaluma	8.47	0.97	1.60	0.35	0.93	0.02	0.00	0.00	0.25	0.85	1.64	6.51	21.59
Piedra	4.21	2.71	1.22	0.08	1.25	T.	0.00	0.00	0.10	0.27	0.76	5.89	16.49
Placerville	10.86	3.68	5.03	0.55	3.07	0.05	0.00	0.00	0.10	0.88	2.08	9.30	35.60
Point Loma	2.75	0.32	1.28	0.04	2.13	0.01	0.00	0.02	0.41	1.60	0.35	10.99	19.90
Point Reyes	4.39	0.80	1.89	0.45	0.51	0.02	0.00	0.00	0.72	1.18	1.70	4.12	15.07
Pomona	4.11	0.72	4.98	0.31	3.96	0.02	0.00	0.00	0.01	1.63	0.09	10.24	26.78

[2] Mill Creek, Amador County, is station formerly called No. 1; San Bernardino County, formerly No. 2.

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
California—Continued.													
Porterville	1.85	1.37	1.00	0.35	2.31	T	0.00	T.	T.	0.07	0.21	4.03	11.19
Portola	4.09	.....	0.49	0.20	.....	0.06	0.00	0.00	0.00	0.40	0.50	4.90	.....
Potrero Canyon	3.88	.....	.....	.....	.....	0.00	.....	.....	.....	.....	.....	.....	.....
Priest Valley	6.20	1.50	2.99	0.48	1.67	0.00	0.00	0.00	0.64	0.08	0.27	10.08	23.91
Quincy	12.05	2.65	4.89	0.74	1.87	0.66	0.00	0.00	T.	1.01	1.97	10.49	36.33
Raywood Flat	6.04	3.14	5.20	1.24	5.68	0.00	1.83	0.58	2.10	.....	0.50	30.41	.....
Red Bluff	7.33	1.44	1.80	0.43	2.05	0.06	0.00	0.00	T.	0.65	1.52	7.10	22.38
Redding	9.85	4.55	5.79	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Red Dome	3.99	1.15	2.70	0.59	3.98	0.00	T.	1.56	0.00	1.59	.....	.....	.....
Redlands	3.51	1.21	2.77	0.23	2.77	0.00	T.	0.09	0.20	1.82	0.15	10.09	22.94
Reedley	2.88	0.98	1.18	0.15	0.90	0.00	0.00	0.00	0.30	0.05	0.65	5.75	12.84
Represa	9.12	1.51	3.51	0.29	1.57	0.00	0.00	0.00	0.00	0.44	1.49	6.57	24.50
Rio Vista	4.35	0.86	1.00	0.56	0.73	T.	0.00	0.00	T.	0.33	1.56	4.79	14.18
Ripon	3.53	0.93	0.78	0.19	1.64	0.00	0.00	0.00	0.08	0.24	1.15	2.71	11.25
Riverside	2.21	0.51	2.31	0.06	2.76	0.02	0.00	0.00	1.71	0.41	0.15	7.78	17.92
Rocklin	4.97	0.93	2.95	0.10	1.65	0.00	0.00	0.00	0.00	0.56	1.39	5.76	18.31
Rose Mine	2.11	0.41	0.91	0.35	2.29	T.	1.43	2.50	2.78	0.45	0.21	8.51	21.95
Ruth	12.70	6.10	5.62	1.50	1.95	0.00	0.00	0.00	0.35	2.60	4.32	7.75	42.89
Sacramento	4.61	0.54	1.45	0.39	0.75	0.05	0.00	0.00	T.	0.80	1.09	3.61	13.49
St. Helena	12.21	1.66	3.19	0.86	1.27	0.00	0.00	0.01	0.10	0.50	1.57	8.10	29.47
St. John	7.53	1.07	1.48	0.35	0.56	0.35	0.00	0.00	0.00	0.75	1.55	5.22	18.86
Salinas	5.09	1.25	1.11	0.36	0.90	0.00	0.03	0.00	0.28	0.13	0.70	7.77	17.62
San Antonio Canyon	8.07	1.09	8.30	0.95	9.60	0.00	0.00	0.00	0.00	1.70	0.30	30.01	60.02
San Antonio Intake	8.58	1.14	6.76	1.11	8.82	0.00	0.00	0.00	0.10	2.03	0.30	24.89	53.73
San Bernardino	3.94	1.03	3.85	0.69	3.34	0.00	0.00	0.00	1.10	1.10	0.11	10.62	25.78
San Diego	2.02	0.35	1.13	0.04	2.54	T.	T.	T.	1.24	0.67	0.30	9.26	17.55
San Fernando	4.00	1.04	2.75	0.35	6.52	0.02	T.	0.03	0.20	0.32	0.03	9.16	24.42
San Francisco	6.30	1.38	2.28	0.54	0.52	T.	0.00	0.00	0.35	0.52	1.43	6.39	19.71
San Gabriel Intake	6.87	1.28	5.91	0.34	6.13	0.00	0.00	0.00	0.04	1.33	0.12	29.41	51.43
San Gabriel Power House	5.67	1.15	5.83	0.84	5.91	0.02	0.00	0.00	0.00	0.68	0.08	12.17	32.35
San Jacinto	2.68	0.70	1.96	0.14	2.38	0.00	0.05	0.25	0.90	2.48	0.24	11.29	23.07
San Jose	4.75	1.09	0.80	0.40	0.82	T.	0.00	0.00	0.21	0.21	1.65	4.66	14.59
San Luis Obispo	6.18	2.16	2.29	0.57	1.32	T.	T.	0.00	0.40	0.16	0.16	7.22	20.46
San Miguel Island	3.53	1.28	1.83	0.12	1.40	0.00	0.00	0.00	0.50	0.30	0.00	2.78	11.74
San Pedro	3.95	0.73	4.02	0.01	2.31	0.00	T.	T.	.....	.....	.....	6.15	.....
Santa Ana	3.12	0.73	2.95	0.06	3.48	0.00	0.03	0.00	T.	1.35	0.04	7.97	19.73
Santa Ana River	6.80	1.69	6.16	0.52	4.91	0.00	0.00	0.23	1.60	1.54	0.35	16.52	40.32
Santa Anita Ranger Station	6.01	1.79	9.82	1.47	10.62	0.00	0.00	0.00	0.00	1.74	0.21	26.68	58.34
Santa Barbara	5.32	1.58	1.77	0.38	2.69	0.10	T.	0.00	0.24	0.32	0.02	7.25	19.67
Santa Clara	5.62	1.11	0.84	0.34	0.84	0.02	0.00	0.00	0.17	0.18	1.73	5.21	16.06
Santa Cruz	5.82	3.30	1.65	0.80	1.35	0.00	0.00	0.00	0.60	0.50	1.60	10.10	25.72
Santa Maria	3.13	1.65	1.57	0.32	1.45	0.01	0.00	0.00	0.44	0.05	0.13	5.32	14.07
Santa Monica	4.68	1.08	2.30	0.04	5.44	0.03	T.	T.	0.31	0.32	T.	7.88	22.08
Santa Rosa	9.60	1.83	2.74	0.75	1.19	T.	0.00	0.00	0.15	0.63	2.03	8.78	27.70
Seriterre	7.38	3.02	3.49	0.70	2.34	0.27	0.00	0.00	0.02	0.64	2.29	7.54	27.69
Seven Oaks	6.73	2.17	3.71	1.73	5.07	T.	0.03	0.60	0.48	1.88	0.41	24.98	47.79
Shield's Ranch	3.05	0.34	0.45	T.	1.12	0.31	0.40	T.	0.17	T.	T	4.01	9.85
Shively	14.81	11.92	5.94	2.43	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sierra Madre (No. 1)	5.52	1.31	5.66	0.95	6.97	0.05	0.00	0.01	0.00	1.61	0.14	15.58	37.80
Sierra Madre (No. 2)	5.23	1.28	6.01	0.74	6.35	0.01	T.	0.00	0.16	1.33	0.07	17.73	38.91
Sierraville	5.16	0.80	0.48	0.00	1.87	0.55	0.00	0.00	0.00	0.71	0.87	4.24	14.68
Sisson	8.85	1.28	3.35	0.30	1.70	0.40	0.00	0.00	0.15	1.30	2.10	7.70	27.13
Sister Elsie Peak	.....	.....	3.73	0.64	9.26	0.00	0.00	0.00	0.00	.....	0.08	.....	.....
Snow Creek	2.95	1.36	0.66	0.64	1.41	0.00	0.01	0.94	0.27	0.97	0.09	12.56	21.86
Sonora	6.68	2.72	2.78	0.71	1.72	0.07	0.00	0.00	0.27	0.38	1.09	10.32	26.74
Spaulding	16.16	5.43	7.46	1.47	4.03	0.69	0.00	0.00	0.25	1.77	3.16	18.21	58.63
Spreckels	4.85	1.18	0.95	0.30	0.91	0.00	0.00	0.00	0.25	0.06	0.67	6.89	16.06
Springville (near)	6.10	3.37	5.21	1.15	3.67	0.58	0.05	T.	0.25	1.07	0.75	9.94	32.14
Squirrel Inn	10.33	3.69	9.79	2.87	9.88	0.00	T.	T.	1.31	2.69	1.09	30.70	72.35
Standish	1.24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stanley-Miller Mine	6.87	1.13	7.06	1.02	.....	0.00	0.00	0.06	0.34	1.76	0.36	23.87	.....
Sterling	1.05	0.00	T.	0.00	0.09	0.00	0.08	1.49	1.02	0.00	0.00	1.50	5.23
Stockton	3.59	1.17	1.65	0.11	1.22	T.	0.00	0.00	T.	0.23	1.37	3.25	12.59
Storey	2.43	1.00	1.93	0.00	1.22	0.00	0.00	0.00	0.00	0.00	0.52	4.66	11.76
Stratton Ranch	7.15	2.84	4.12	1.33	4.26	0.00	0.03	0.46	0.22	2.78	0.44	22.36	45.93
Sulphur Banks	.....	.....	.....	0.05	0.03	0.00	0.00	T.	0.01	0.57	1.50	5.58	.....
Summit	10.70	4.50	2.70	1.00	2.90	0.57	0.00	0.00	0.22	1.80	2.04	11.08	37.51
Tahoe	10.28	2.66	2.19	0.67	2.68	0.18	T.	0.00	0.09	0.52	1.31	8.42	29.00
Tamarack	12.39	2.55	3.49	1.04	5.35	1.97	T.	0.00	0.40	0.85	2.72	9.40	40.16
Tejon Rancho	2.37	1.00	0.85	1.11	0.90	0.00	0.00	0.00	0.00	T.	1.08	1.20	8.51
Three Rivers	3.98	2.16	2.72	0.44	3.31	0.10	0.00	T.	0.17	0.05	0.38	6.87	20.18
Trona	1.03	0.04	0.41	0.00	2.43	0.00	T.	0.04	0.08	0.07	0.15	2.52	6.77
Tujunga	5.07	1.28	4.27	0.58	8.39	T.	0.02	T.	0.02	0.73	0.24	16.91	37.51
Tujunga Terrace	4.69	0.93	3.19	0.35	.....	.....	.....	.....	.....	.....	.....	.....	.....
Turlock	4.03	0.85	1.69	0.24	0.91	0.00	0.00	0.00	0.19	0.07	0.95	4.75	13.68
Tustin (near)	2.60	1.10	2.35	0.07	2.52	0.02	0.03	0.00	0.04	1.21	0.02	7.00	15.96
Twin Lakes	26.60	.....	.....	.....	.....	0.92	0.00	0.00	0.00	1.25	3.15	.....	.....
Twin Valley	18.40	3.85	3.43	0.86	1.16	0.00	0.00	0.00	0.00	1.17	2.62	8.48	39.97
Two Canyon Ranch	4.59	1.04	6.68	0.79	4.89	0.10	0.00	T.	0.10	1.30	0.16	13.06	22.65
Ukiah	12.00	3.37	2.57	0.37	1.23	0.62	0.00	0.00	0.15	0.92	3.29	5.77	30.69
Upper Mattole	21.04	12.64	8.87	1.44	2.70	0.57	0.00	0.00	1.00	2.84	10.10	13.26	74.52
Vacaville	6.78	0.85	1.61	0.64	0.62	0.09	0.00	0.00	T.	0.46	1.68	6.76	19.30
Valyermo	3.68	0.60	0.86	0.30	1.57	0.00	0.15	0.01	0.81	0.25	0.33	8.63	17.19
Visalia	2.43	1.17	1.36	0.15	1.17	0.00	0.00	0.00	0.00	0.05	0.47	3.16	9.96
Voltaire	7.55	1.00	1.45	0.32	4.09	0.00	T.	T.	0.55	0.55	0.13	15.01	30.68
Walnut Creek	6.58	0.82	1.64	0.42	0.81	0.00	0.00	0.00	0.12	0.28	1.51	8.65	18.83
Warner Springs	2.25	0.71	1.71	0.00	3.85	0.00	1.53	2.03	1.33	0.01	0.30	18.30	32.02
Wasco	3.96	0.70	0.56	0.40	2.68	0.00	0.00	0.00	T.	0.39	0.33	1.89	10.85
Waskoja	3.68	1.61	1.19	0.00	1.50	0.00	0.00	0.00	0.27	0.19	0.00	5.51	13.92
Watsonville	5.67	1.78	2.14	0.43	0.99	0.00	0.00	0.00	0.37	0.00	1.15	9.97	22.50
Weaverville	8.06	4.91	4.48	0.64	2.16	0.41	0.00	0.00	0.00	1.97	3.81	4.02	30.46
West Branch	21.73	8.67	7.37	1.19	3.16	0.64	0.00	0.00	0.13	1.80	4.52	17.21	66.42
West Point	10.76	3.74	5.17	0.92	1.97	0.50	0.00	0.00	0.47	1.09	1.58	10.10	36.30
Westwood	.....	1.48	2.23	0.32	1.70	0.48	0.00	0.00	0.06	0.72	2.11	9.20	.....
Whitewater Canyon	1.89	0.71	0.79	0.26	0.65	.....	T.	0.33	0.00	.....	.....	.....	.....
Whitewater Ranch	1.81	0.70	0.52	0.28	0.59	0.00	T.	0.63	0.85	0.19	0.00	9.77	15.34

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
California—Continued.													
Willows	6.87	0.40	1.59	0.24	0.34	0.07	0.00	T.	T.	0.67	1.15	4.73	16.06
Wrights	16.33	0.86	3.73	1.71	0.00	0.00	0.00	0.00	0.35	0.47	1.73	16.46	41.64
Yorba Linda	3.19	0.70	3.38	0.04	3.73	0.00	0.04	0.01	1.35	0.23	0.02	8.64	21.33
Yosemite	7.72	1.82	3.91	0.20	1.36	0.63	0.00	T.	0.44	0.41	0.58	8.51	25.58
Yreka	2.29	3.07	1.62	0.42	1.70	0.05	0.00	0.00	0.01	0.74	3.04	2.40	15.34
Colorado.													
Akron	1.22	T.	1.25	2.76	0.50	1.06	2.25	1.55	0.79	0.97	0.21	.....	.....
Ames	1.66	1.58	2.40	2.81	2.46	2.47	3.03	4.47	0.46	2.04	0.81	3.54	27.73
Asheroft	1.69	.....	2.83	2.42	1.49	3.73	2.66	.....	0.48	0.75	0.53	.....	.....
Auldhurst	0.43	0.16	1.05	2.55	0.22	3.81	4.36	3.69	0.00	0.70	0.50	1.00	18.47
Boulder	0.11	0.31	0.77	4.81	1.50	3.62	1.53	2.00	0.17	1.13	0.98	1.46	18.39
Buena Vista	0.38	0.09	0.13	0.95	0.60	1.67	1.96	2.68	T.	0.65	.....	0.80	.....
Burlington	0.95	0.20	0.25	3.90	1.30	3.35	1.15	3.73	0.51	1.24	0.33	0.62	17.53
Byers	0.70	0.17	1.00	2.11	0.58	3.46	1.79	6.37	1.57	0.75	.....	0.92	.....
Calhan	0.91	0.19	0.60	2.23	1.00	6.50	2.35	4.86	0.44	1.01	0.43	0.66	21.18
Canon City	0.25	0.33	0.76	2.21	0.35	4.05	2.47	2.66	.....	.....	.....	.....	.....
Cascade	1.40	1.47	2.14	2.95	1.28	0.35	3.75	3.65	0.15	.....	.....	.....	.....
Castle Rock	0.99	0.18	0.98	3.08	0.78	4.95	1.76	2.44	0.63	1.23	0.59	0.84	18.33
Cathedral	0.57	0.48	0.84	1.14	1.58	2.45	2.07	3.33	0.38	0.70	0.05	0.23	13.82
Cedaredge	0.38	0.78	0.50	1.87	1.62	2.57	.....	.....	.....	0.78	.....	.....	.....
Cheesman	0.50	0.14	0.90	5.42	0.22	5.26	2.63	1.65	0.35	1.09	1.45	0.98	20.59
Cheyenne Wells	1.34	0.12	0.27	2.17	1.81	3.22	1.69	2.43	3.81	1.11	0.15	1.00	19.12
Collbran	.....	.....	.....	2.17	1.31	1.83	1.92	4.45	1.03	0.75	1.33	1.60	.....
Colorado Springs	0.95	0.00	0.53	5.97	2.23	4.55	5.35	3.15	0.95	0.04	0.43	0.40	24.55
Columbine	2.46	1.87	2.52	2.05	2.62	2.33	2.20	2.99	1.04	0.70	0.78	3.50	25.16
Columbine Ranch	0.91	1.48	3.01	1.86	1.85	2.54	3.99	2.54	0.88	1.31	1.48	2.75	24.60
Crawford (near)	0.28	0.71	0.38	0.57	.....	3.30	.....	.....	.....	1.33	1.20	0.85	.....
Crested Butte	1.12	2.38	1.93	1.74	1.81	1.80	0.52	.....	0.04	0.23	0.97	4.84	.....
Cuchara Camps	0.36	1.19	1.83	4.89	0.53	3.28	5.02	2.14	0.12	0.24	0.19	2.43	22.22
Cumbres	4.24	2.25	2.80	3.23	1.15	1.39	3.87	3.03	0.10	0.88	2.11	4.58	29.63
Del Norte	0.14	0.29	0.19	0.20	0.39	2.00	1.21	3.05	0.08	T.	0.02	0.10	7.67
Delta	0.57	0.23	0.15	0.92	0.73	1.91	2.01	1.82	0.15	0.47	1.02	0.77	10.75
Denver	0.77	0.27	0.48	2.31	0.60	3.26	1.27	3.49	0.02	0.66	0.57	0.85	14.55
Dilley Ranch	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dillon	1.46	0.95	2.29	3.79	0.44	0.89	2.25	3.28	0.20	1.15	0.50	2.00	19.20
Dolores	0.97	0.61	1.91	2.09	2.06	1.54	2.35	5.05	0.11	1.43	0.85	2.68	21.65
Dove Creek	0.39	0.35	1.21	2.15	1.32	2.27	1.57	3.59	0.00	1.82	1.05	.....	.....
Durango	1.49	1.01	1.32	1.55	1.81	2.08	2.55	4.65	0.39	1.33	1.02	7.37	26.57
Eads	1.03	T.	0.16	0.13	2.29	0.99	4.84	3.21	1.22	0.67	T.	1.00	15.54
Edgewater	0.71	0.40	0.32	2.16	0.80	4.36	1.36	2.97	0.00	0.78	0.45	1.09	15.40
Elk Creek	0.66	0.03	0.65	4.27	0.75	7.20	4.64	4.87	0.33	0.76	0.58	1.27	26.01
Estes Park Fish Hatchery	1.47	0.42	1.26	5.72	0.67	3.07	3.11	3.64	0.71	0.87	0.72	1.17	22.83
Flagler	0.56	0.26	0.35	4.53	1.60	2.28	1.98	2.89	2.31	1.35	0.20	0.80	19.11
Flobbe Ranch	0.57	0.33	.....	.....	0.20	1.55	1.90	1.65	0.25	0.80	0.25	0.96	.....
Fort Collins	0.96	0.19	0.13	1.71	1.97	3.66	1.40	2.55	0.68	0.37	0.32	0.89	14.83
Fort Lewis	0.07	0.05	0.56	0.13	0.64	0.45	3.07	3.39	0.28	1.08	0.27	1.74	11.73
Fort Lupton	0.40	0.13	0.27	2.50	1.80	3.75	1.88	1.79	0.69	0.50	0.37	0.70	14.78
Fort Morgan	2.03	0.03	0.70	1.10	1.23	1.55	2.00	1.71	0.48	0.67	T.	0.11	11.61
Fraser	2.67	1.59	2.49	4.89	1.96	2.11	3.15	3.46	0.54	1.60	0.88	1.43	25.77
Fremont Experiment Station	1.27	0.32	1.20	7.22	1.07	8.17	4.60	4.17	0.46	0.81	0.58	0.82	30.69
Fruita	0.51	0.49	0.86	1.02	1.35	0.86	1.41	3.00	0.10	0.63	0.63	1.58	12.44
Fry's Ranch	0.65	0.26	0.83	9.05	0.44	2.12	2.64	1.54	0.16	0.99	T.	0.77	19.45
Garfield	1.81	1.47	3.05	2.02	1.83	3.06	3.06	2.09	0.38	0.62	0.42	2.71	22.50
Garnett	T.	0.00	0.28	1.49	0.46	2.18	1.13	2.05	0.18	0.22	0.05	0.06	8.09
Georgetown	0.58	T.	1.27	5.28	0.08	2.10	4.63	2.87	0.20	0.36	0.63	1.35	19.45
Glenwood Springs	1.42	1.46	3.85	1.87	2.26	2.22	0.83	3.20	0.56	1.22	1.36	3.34	23.59
Grand Junction	0.21	0.32	0.28	1.16	1.12	0.63	1.38	3.65	0.04	0.66	0.42	0.74	10.61
Grandlake	1.16	0.66	0.71	3.36	0.10	.....	.....	.....	.....	.....	.....	.....	.....
Greeley	1.41	0.18	0.27	1.32	2.83	2.70	1.64	2.93	0.21	0.47	0.12	0.40	14.48
Grover (near)	0.90	1.94	0.70	1.38	2.37	3.34	1.47	2.97	0.45	.....	T.	0.76	.....
Gunnison	0.52	0.52	0.34	0.91	1.15	1.60	1.95	1.83	0.46	0.17	0.53	1.85	11.83
Hartsel	0.18	0.10	0.47	1.57	0.36	2.66	4.18	4.08	0.02	0.53	0.23	0.26	14.54
Hawthorne	0.39	0.49	1.20	6.61	1.22	4.23	2.45	1.56	0.04	1.24	0.87	1.53	21.83
Haxtun	0.93	0.19	0.43	2.30	2.50	1.18	2.09	0.37	.....	2.02	0.09	.....	.....
Hayden	1.26	1.71	1.83	2.49	1.75	2.34	1.02	1.98	0.70	0.85	0.71	1.75	18.39
Hermit	1.72	0.27	0.52	0.91	2.26	0.63	3.58	2.35	0.34	0.60	0.51	1.72	15.41
Holly	1.44	0.56	.....	.....	.....	3.89	1.37	1.85	0.58	0.20	0.00	1.00	.....
Hoyt	0.54	0.18	1.29	2.26	0.80	3.25	1.70	2.19	0.35	0.96	0.19	0.80	14.51
Huerfano	0.22	0.23	1.02	1.33	0.34	2.16	1.97	2.68	0.55	0.34	0.45	1.15	12.44
Idaho Springs	0.43	T.	0.72	6.37	0.85	2.97	3.21	2.53	0.14	0.54	0.27	0.42	18.45
Ignacio	0.81	0.60	1.08	0.32	1.93	2.52	4.20	4.94	0.29	1.28	0.50	1.68	20.15
Julesburg	0.85	0.45	0.73	0.92	0.94	1.51	0.73	2.83	0.45	1.80	0.33	0.42	11.96
Kassler	0.70	0.33	1.06	2.77	0.27	5.00	2.03	2.94	0.55	0.69	0.92	1.82	19.08
La Junta	0.75	0.29	1.02	1.37	1.59	2.36	3.42	2.50	0.28	0.62	0.06	0.38	14.66
Lake Moraine	0.79	0.65	1.09	3.55	1.06	7.48	4.95	4.73	0.62	0.84	0.59	1.14	27.40
Lamar	1.27	0.50	0.35	1.16	2.63	3.80	3.37	2.66	0.30	0.15	0.00	1.70	17.89
La Porte	0.85	0.23	0.02	1.82	2.57	3.74	1.35	2.07	0.38	0.20	0.28	1.47	14.98
Las Animas	0.83	0.32	0.24	1.50	2.57	3.15	5.53	1.99	0.05	0.11	0.05	0.60	16.94
La Veta Pass	0.39	1.50	1.93	4.11	0.91	3.46	4.76	3.26	0.70	0.50	0.00	2.25	23.77
Lay	0.54	0.86	2.05	2.00	2.23	1.69	0.68	1.45	0.25	0.49	0.68	1.32	14.24
Leadville	1.41	0.85	1.19	3.29	1.37	2.66	4.40	5.99	0.98	0.92	0.67	2.03	25.76
Le Roy (near)	1.13	0.25	1.64	2.38	2.37	1.17	1.71	1.16	0.71	1.85	0.10	0.81	15.28
Limon (near)	0.38	0.13	0.25	1.83	0.62	3.89	1.19	7.15	0.44	1.67	0.25	0.60	18.40
Long Branch	0.64	0.25	0.32	3.33	1.31	3.18	3.45	2.57	0.10	0.67	0.14	0.30	16.96
Longmont	0.76	0.12	0.24	3.78	2.12	6.33	2.83	1.84	0.17	1.10	0.38	0.91	20.38
Longs Peak	1.83	0.97	2.13	6.99	.....	5.30	5.68	2.99	0.49	0.98	1.06	1.36	.....
Madrid	0.44	0.59	0.95	1.79	1.68	2.63	2.60	3.40	0.31	0.47	0.03	0.64	15.53
Manassa	0.04	0.02	0.03	0.76	0.66	1.30	1.09	1.42	.....	.....	T.	0.10	.....
Meeker (near)	0.41	0.92	1.32	1.98	1.46	1.81	0.95	3.52	0.74	0.79	1.48	0.95	16.33
Montrose	0.23	0.19	1.11	0.77	1.03	1.50	1.94	1.85	0.09	0.66	0.78	0.47	10.82
Monument	1.27	0.20	1.50	4.95	0.79	4.85	3.53	6.19	0.37	1.18	0.75	1.14	26.52
Morrison	0.48	0.57	1.32	2.28	0.53	5.43	2.35	2.79	T.	0.91	0.81	1.09	19.16
Nast	1.64	1.64	1.33	1.63	0.63	2.43	1.98	2.78	0.62	1.13	1.59	3.13	22.23
North Lake	.....	.....	.....	.....	.....	3.87	4.91	3.09	0.78	.....	.....	.....	.....

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Colorado—Continued.													
Ordway	0.51	0.09	0.62	1.40	1.64	3.00	3.06	2.21	0.00	0.57	0.16	0.59	13.85
Palisade Lake	2.42	0.94	2.63	1.93	5.32	2.64	5.96	8.41	0.52	1.36	1.35	5.78	39.26
Palisades	0.56	0.09	0.92	1.77	1.28	1.78	1.84	1.82	0.34	0.67	0.60	1.06	12.73
Paonia	0.58	1.13	1.99	1.85	1.56	1.79	1.97	1.95	1.06	1.47	1.74	2.47	19.56
Peetz	1.04	0.33	0.78	0.37	1.81	2.83	0.37	0.60	0.60	0.50	0.18	0.70	10.11
Pitkin	1.23	0.56	1.59	2.26	1.36	2.19	4.96	1.84	0.56	0.62	0.96	2.41	20.54
Platoro						2.54	3.30	5.03	0.51				
Pueblo	0.30	0.07	0.20	0.79	0.98	7.14	5.26	2.24	0.25	1.21	0.72	1.12	20.28
Pyramid	1.54	2.50	3.61	2.90	1.33	2.69	2.46	4.43	0.67	1.54	1.08	2.79	27.54
Redvale	0.47	0.66	1.86	1.59	0.82	2.08	3.79	4.99	T.	0.95	0.99	1.31	19.51
Rico	2.44	0.93	3.03	2.44	2.26	2.60	3.01	3.80	1.08	2.08	0.93	4.03	28.63
Rifle	0.90	0.61	1.38	0.86	0.79	1.45	2.26	3.12	0.91	1.28	0.48	1.51	15.55
Rocky Ford (near)	0.63	0.12	0.55	1.03	0.69	2.35	3.39	1.44		0.62	0.12	0.40	
Saguache	0.07	0.00	0.26	0.70							0.00	0.31	
St. Elmo	1.19	0.61	2.54	3.18	1.69	2.13	2.49	3.40	0.67	0.58			
Salida											T.	0.20	
San Luis	0.47	0.50					2.45	2.81				0.18	
Sapinero (near)	1.90	1.93	2.97	3.02	1.61	2.82	2.24	4.05	0.12	1.63	2.11	2.71	27.11
Savage Basin	2.27	4.75	3.61	5.47	1.65				1.10	1.39	1.36	1.76	
Sedgwick	0.99	0.25	0.75	1.17	1.66	1.78	1.59	2.62	0.58	2.89	0.27	0.51	15.06
Shoshone	1.11	3.37	0.53	1.55	1.87	2.17	2.00	4.28	0.50	0.85	0.64	2.17	21.04
Silver Lake	7.31	6.63	8.31	15.16	3.09	12.36	4.15	3.42	0.07	2.05	2.55	3.20	68.30
Silverton (near)	2.35	1.30	1.42	3.38	2.03	3.10	5.17	6.16	0.95	1.26	1.13	3.41	31.66
Simpson (near)	0.30	0.70	0.35	4.56	0.88	0.92	0.97	1.76	0.58	2.70	0.32	0.75	14.79
Spicer (near)	0.87	0.63	1.12	0.85	0.12	1.13	1.27	1.01	0.61	0.60	0.57	1.09	9.89
Steamboat Springs	3.14	3.26	2.35	3.68	2.62	3.63	2.51	2.01	1.33	1.11	1.31	2.52	29.47
Sterling	1.01	0.42	1.15	2.04	0.82	3.96	1.02	1.42	1.03	1.12	0.06	1.03	15.08
Tacoma	2.09	1.26	1.88	1.51	3.14	2.72	3.15	4.84	0.78	0.56	1.67	3.24	26.84
Telluride	0.59	1.01	2.56	5.62	1.64	2.29	1.90	4.09	1.72	1.68	1.00	2.95	27.05
Terminal Dam	1.70	1.31	1.83	1.98	3.40	2.65	4.13	4.02	0.59	0.82	0.60	5.07	28.10
Trinidad	0.29	0.91	1.04	2.05	2.21	2.65	3.43	3.07	0.28	0.50	0.05	0.72	17.20
Trout Lake	2.48	1.73	3.00	2.88	2.48	3.52	5.59	6.52	1.15	1.57	1.25	6.44	38.61
Two Buttes			0.48	0.93	2.52	1.75	2.56	1.49	1.10	0.32	T.	0.90	
Two Buttes Reservoir		0.38	0.30	0.17		7.58	3.51	2.07		0.90			
Utleyville	0.60	0.59	0.09	1.11	1.59	4.91	5.33	1.58	0.28	0.91	0.00	0.90	17.89
Victor (near)	0.62	0.35	0.83	2.04	0.20	4.43	4.74	6.75	0.23	0.27	0.43	0.65	21.54
Wagon Wheel Gap	0.89	0.51	0.83	1.13	2.14	1.58	2.96	3.12	0.60	0.69	0.18	1.21	15.84
Waterdale				2.93	2.06	5.42	4.09	2.11	0.22	0.36	0.51	0.84	
Westcliffe	0.13										0.27	0.60	
Willard	1.03	0.30					0.87	1.91	1.65	1.03	T.	1.12	
Wray	0.30	T.	0.52	0.94	2.89	3.17	1.64				0.08	0.46	
Yuma	0.85	0.08	1.39	2.79	0.65	2.75	0.77	3.91	0.47	1.30	0.05	0.82	15.83
Connecticut.													
Bridgeport	2.50	3.18	2.69	6.15	4.64	3.06	4.92	2.79	2.37	1.01	4.49	2.36	40.16
Canton	2.76	3.63	3.02	3.47	3.22	4.73	3.68	1.67	2.77	1.50	4.39	2.37	37.21
Colchester	2.66	3.29	4.56	5.38	3.64	3.21	6.33	2.54	3.40	1.57	6.29	3.60	46.47
Cream Hill	3.88	3.68	4.24	5.43	2.89	3.66	2.88	4.43	4.01	1.95	5.99	2.52	45.56
East Hartland	6.40	4.49	2.79	4.02	2.72	6.71	4.75	3.71	2.97	1.51	6.70	1.19	47.96
Falls Village	2.48	3.16	4.43	4.62	3.45	3.95	3.11	4.25	3.86	1.64	5.92	1.67	42.54
Hartford	2.41	3.87	2.28	4.07	2.82	1.63	4.14	1.29	3.21	1.19	5.28	2.36	34.55
Lake Konomoc	3.35	3.23	4.46	6.35	5.10	3.27	5.67	3.86	1.43	0.96	6.57	2.00	46.25
New Haven	2.78	3.44	2.66	4.98	4.08	3.46	6.60	2.18	2.77	1.53	4.65	2.64	41.77
New London	3.89	1.96	2.51	6.92	3.40	4.20	4.99	3.30	2.79	1.45	4.62	2.49	42.52
North Grosvenor Dale	3.06	3.17	2.78	5.04	3.48	3.50	6.57	1.19	1.77	1.08	7.67	2.50	41.81
Norwalk	2.93	3.94	2.68	5.65	3.70	3.51	4.67	2.64	3.95	0.99	4.16	3.79	41.52
Southington	1.30	4.65	2.20	3.22	2.20	1.75	4.39	0.45					
Torrington	2.21	3.61	6.07	6.92	3.06	5.07	3.79	2.73	4.93	3.14	7.18	3.46	52.17
Voluntown							5.68	1.79	2.23	1.39	8.48	3.00	
Waterbury	1.83	2.62	2.45	5.14	4.30	2.44	5.31	1.47	7.50	0.51	2.14	3.35	39.06
Delaware.													
Delaware City	1.96	2.95				4.16	3.36	5.08	3.56	1.06	3.50	1.65	
Dover	2.24	3.23	2.39	3.98	2.70	2.63	3.95	3.44	2.63	0.85	4.54	1.75	34.33
Milford	2.69	3.80	2.89	4.79	3.10	2.98	2.61	2.50	1.14	1.12	4.75	2.89	35.26
Millsboro	2.50	3.65	2.08	3.81	4.57	3.49	3.17	2.61	0.70	1.07	3.91	2.86	34.42
Seaford	2.39	3.22	2.87	2.71	4.98	1.07	3.74	2.81	1.34	1.25	3.39	2.35	32.12
Wilmington	2.65	3.12	2.34	2.76	3.33	2.07	4.16	6.45	3.56	0.68	3.80	1.97	36.89
District of Columbia.													
Washington (Weather Bureau)	2.30	2.29	2.76	2.93	5.82	3.45	4.79	1.10	3.29	1.35	4.15	1.95	36.1
Florida.													
Allapattah												0.36	
Apalachicola	1.85	0.50	1.67	4.36	5.79	0.38	17.29	10.53	2.65	3.09	5.39	1.96	55.35
Arcadia	0.41	4.13	1.54	1.49	7.46	3.07	5.26						
Avon Park	0.65	2.65	0.22	1.12	5.66	3.12	6.84	5.46	3.52	7.19	3.63	0.92	40.98
Bartow	0.73	1.39	0.52	0.89	10.35	4.81	6.95	5.65	3.77	6.88	1.24	2.99	46.67
Blountstown	0.63	1.05	1.79	2.88	4.48	2.09		6.00	1.79	1.72	4.50	3.95	
Bluff Springs											3.37	5.12	
Bonifay	1.91	0.84	2.65	3.61	3.51	1.66	5.01	3.76	1.95	3.83	2.39	3.28	30.40
Bradentown	1.33	3.98	3.51	0.23	9.05	3.74	20.60	7.38	2.27	7.21	1.21	1.62	62.18
Brooksville	1.11	1.96	0.41	2.88	8.71	7.23	12.14	5.13	2.99	15.64	2.61	4.88	65.69
Carrabelle	0.54	0.83	1.34	1.81	3.60	2.06	15.64	5.21	2.28	4.84	3.67	1.56	42.38
Cedar Keys	1.80	1.00	1.80	2.01	2.30	2.46	14.52	2.61	1.79	7.66	1.92	1.56	41.43
Clermont	1.05	1.11	0.94	1.80	7.68	5.56	5.32	5.36	4.62	7.56	0.97	4.25	46.22
Cottage Hill											2.57	3.61	
Crescent City	1.49	1.13	2.74	1.06	4.89	6.06							
Davie	1.23	1.47	4.92	1.94	2.44	1.32	7.02	2.97	2.33	24.24	2.36	0.81	53.06
DeFuniak Springs	3.53	3.58	3.16	7.61	6.10	3.88	7.61	8.64	2.26	1.91	2.90	4.15	54.63
De Land	0.98	1.69	1.94	1.29	9.26	3.61	5.56	2.14	1.46	7.98	3.07	1.88	40.16
Eustis	0.99	0.82	0.68	0.91	6.26	7.03	6.94	4.15	3.04	8.09	0.98	2.33	42.12

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Florida—Continued.													
Federal Point	1.63	1.12	0.18	1.32	7.09	3.34	8.07	8.34	1.38	7.48	3.28	0.98	44.21
Fellsmere	0.64	3.26	1.07	1.48	6.00	4.12	7.48	2.67	1.73	7.86	2.07	2.23	40.61
Fenholloway	1.11	1.32	0.44	2.86	3.46	3.46	11.50	4.50	2.00	3.61	5.58	1.72	41.56
Fernandina	2.10	0.90	1.10	3.50	2.22	1.77	6.44	5.50	2.50	6.25	2.15	2.65	37.18
Fort Lauderdale	1.34	2.00	9.90	1.38	5.36	1.49	4.55	5.08	2.29	31.34	2.30	0.17	67.20
Fort Myers	0.49	1.11	0.93	0.40	5.86	5.77	9.70	6.10	5.01	10.80	4.60	1.27	52.04
Fort Pierce	0.43	1.99	1.56	1.36	6.26	1.96	6.90	1.63	0.75	11.31	0.98	1.02	36.15
Gainesville	3.39	0.82	0.14	1.32	3.03	5.70	15.03	2.82	2.46	6.03	4.97	1.44	47.15
Garniers (near)	2.15	2.29	4.37	6.70	3.71	0.15	8.18	3.39	4.15	2.98	2.63	6.87	47.57
Glen St. Mary	3.93	1.45	0.62	2.11	4.65	1.66	8.30	5.60	0.25	5.20	1.18	1.15	36.10
Griffin	0.92	1.41	4.85	3.29	3.73	2.85	4.01	3.15	2.10	18.79	1.97	0.51	46.78
Hilliard	2.59	1.52	0.69	1.65	4.45	6.09	9.87	3.47	1.72	3.75	2.38	2.45	40.67
Homestead	0.00	2.90	4.95	0.52	4.34	2.20	5.37	5.90	2.07	17.17	0.00	0.70	46.12
Hypoluxo	0.43	5.92	7.07	0.10	2.69	2.24	2.44	1.13	2.86	17.44	4.07	1.45	47.34
Inverness	1.77	1.71	1.24	1.50	5.51	3.15	9.86	6.15	4.97	8.20	1.62	4.08	49.76
Isleworth	0.50	2.13	0.62	2.46	4.18	.....	8.68	3.68	4.95	.....	.....	2.73	.....
Jacksonville (Weather Bureau)	2.04	0.62	0.57	1.23	4.02	2.71	9.76	7.70	1.73	6.37	2.27	1.60	40.62
Jacksonville (No. 2)	2.27	0.51	0.10	.....	.....	.....	.....	.....	.....	.....	2.42	2.60	.....
Jasper	1.70	1.22	1.05	2.33	5.20	4.24	9.87	1.84	1.65	1.15	2.50	4.55	37.30
Johnstown	.....	1.76	0.54	1.25	3.69	1.94	6.18	2.18	0.50	.....	.....	.....	.....
Jupiter	0.35	2.30	7.57	1.15	9.25	2.19	4.52	1.69	1.49	17.13	6.41	1.64	55.69
Key West	1.88	1.80	0.54	0.47	1.24	4.09	5.72	4.52	5.45	7.54	2.67	0.35	36.27
Kissimmee	.....	2.50	2.22	0.38	8.77	4.90	6.07	4.71	0.59	.....	.....	2.25	.....
Lake City	2.12	1.13	0.85	2.81	3.59	4.95	8.85	3.56	1.89	5.19	2.13	2.98	40.05
Lakeland	0.82	2.62	1.60	1.39	8.21	6.64	6.73	3.58	0.31	3.49	2.59	2.53	40.51
Lake Wales	.....	.....	.....	.....	.....	.....	.....	2.10	4.39	8.85	1.88	2.87	.....
Live Oak	1.41	1.26	1.14	1.48	3.62	5.30	8.25	4.04	2.11	2.57	2.64	3.11	36.93
Lock No. 4	0.70	1.26	4.91	1.96	1.89	2.29	7.64	3.60	2.49	29.64	2.88	0.61	59.87
Long Key	0.49	0.36	3.21	0.07	7.58	1.47	4.04	5.28	3.77	8.57	1.18	0.08	36.10
Lynne (near)	0.94	1.45	0.46	1.30	9.11	8.85	14.27	3.29	0.80	7.63	1.21	1.59	50.90
McDonald	1.06	2.35	1.09	0.73	9.18	5.13	6.01	3.37	1.29	9.00	1.27	4.54	45.02
Madison	2.07	1.04	1.28	1.75	6.85	3.20	9.50	4.03	1.42	1.39	4.52	3.46	40.51
Malabar	0.10	3.70	1.01	2.50	6.42	3.11	10.01	0.86	0.85	17.66	2.24	2.49	50.95
Marianna	1.93	1.30	2.08	5.38	4.96	8.64	8.20	6.12	0.63	2.49	1.96	2.75	46.44
Melrose	3.44	2.29	0.81	0.97	6.41	5.22	7.59	3.29	2.32	6.68	3.57	2.32	44.91
Merritts Island	0.49	2.49	1.02	1.05	4.23	2.64	6.44	3.30	0.38	11.90	2.15	2.24	38.33
Miami (Weather Bureau)	0.73	1.15	5.15	2.63	5.60	1.14	3.09	3.14	2.81	18.20	0.50	0.23	44.37
Miami (No. 2)	0.81	1.25	5.24	2.56	5.41	0.91	3.49	3.54	2.15	17.16	0.52	0.40	43.44
Middleburg	1.32	0.73	0.00	2.85	5.68	3.05	7.11	7.18	0.88	5.07	2.21	1.32	37.40
Monticello	2.87	1.79	1.81	2.44	5.35	3.84	9.67	5.91	1.67	2.82	2.75	4.58	45.50
Moore Haven	0.45	.....	.....	.....	.....	.....	.....	.....	.....	8.35	2.19	0.25	.....
Mount Pleasant	1.79	2.13	2.74	3.22	4.88	4.39	8.37	5.54	2.03	.....	4.53	3.91	.....
New Smyrna	0.42	1.79	4.13	1.75	2.98	2.35	7.82	4.99	0.21	8.84	3.69	2.16	41.13
Ocala	1.19	1.58	1.71	1.43	8.11	6.58	10.31	1.57	2.21	7.22	3.08	1.58	46.57
Okeechobee	.....	.....	.....	0.21	5.07	2.23	5.30	4.33	0.08	8.81	0.84	1.31	.....
Orange City	1.04	1.93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Orlando	0.52	1.76	0.87	1.51	7.07	6.62	6.47	4.13	1.93	10.57	3.28	2.91	47.63
Pensacola	1.67	2.16	6.21	4.45	2.57	0.40	6.07	3.29	2.28	2.20	2.46	4.51	38.27
Pinellas Park	1.91	2.39	0.69	0.75	7.71	3.45	18.57	5.55	3.24	13.51	1.76	1.12	60.65
Punta Gorda	0.98	1.32	.....	.....	4.60	.....	5.52	4.02	8.20	.....	4.31	1.53	.....
Quincy	3.01	2.10	2.08	2.94	5.36	3.09	6.57	7.05	2.59	2.67	5.96	2.96	46.38
Ritta	0.20	0.59	0.79	0.25	5.55	1.20	4.07	1.70	1.05	13.67	1.28	0.00	30.35
St. Andrew	1.16	1.76	2.12	3.51	7.72	1.02	9.05	7.48	3.36	6.82	5.82	4.47	54.29
St. Augustine	3.00	1.81	0.55	1.70	2.14	0.89	11.83	5.66	0.93	7.86	2.03	0.90	39.30
St. Cloud	.....	.....	.....	.....	.....	.....	4.47	6.41	1.31	7.05	2.49	.....	.....
St. Leo	1.39	1.84	2.44	2.00	8.31	4.30	8.93	2.97	4.19	15.80	1.30	4.60	58.07
St. Petersburg	1.19	2.01	1.35	1.00	7.05	6.16	18.30	4.32	6.19	9.13	0.77	2.61	60.08
Sand Key	1.29	2.14	0.47	0.39	1.05	0.22	2.74	2.29	3.77	.....	4.43	0.17	.....
Sanford	0.86	1.78	0.97	1.08	7.36	6.16	6.47	2.45	1.06	9.63	2.26	2.33	42.41
Satsuma Heights	1.41	1.36	0.84	1.17	11.33	6.98	10.96	.....	2.25	.....	3.95	1.55	.....
Switzerland	1.30	0.76	0.75	.....	4.70	2.17	6.91	7.21	1.03	8.77	2.88	1.70	.....
Tallahassee	3.15	1.66	1.87	1.86	6.51	2.91	6.22	3.96	2.66	2.30	4.63	1.48	39.19
Tampa	1.07	1.59	1.06	2.08	9.41	5.85	11.19	2.38	1.58	9.88	1.58	1.98	49.65
Tarpon Springs	1.31	2.26	1.96	2.30	8.18	1.83	14.66	3.72	0.82	12.43	2.61	4.65	56.73
Titusville	0.51	3.10	1.59	0.67	5.98	3.35	10.57	2.43	2.83	17.11	2.12	2.48	52.74
Wausau	1.38	0.96	1.87	4.20	4.17	2.33	5.50	3.01	2.12	2.10	.....	.....	.....
Georgia.													
Abbeville	1.40	1.50	1.05	2.96	6.36	2.09	8.80	2.04	0.32	1.12	2.81	1.42	31.87
Adairsville	.....	.....	.....	2.05	1.40	0.50	2.83	3.49	2.57	2.70	5.70	2.55	.....
Alapaha	2.71	1.10	3.04	4.39	5.62	3.97	8.05	5.07	0.48	2.45	1.54	1.24	39.66
Albany	1.72	1.15	2.77	4.59	4.90	4.51	9.22	3.43	1.63	1.81	2.56	2.54	40.83
Americus	1.74	1.85	2.83	6.37	4.72	1.73	6.96	4.12	1.14	1.75	2.05	2.56	37.82
Athens	3.70	4.79	1.05	1.80	2.09	2.00	3.94	6.14	2.82	1.77	8.25	1.30	39.65
Atlanta	3.53	7.37	1.64	3.31	1.75	1.56	3.88	8.03	1.31	2.85	6.47	1.79	43.49
Augusta	2.84	3.85	1.40	1.25	4.21	4.56	6.02	2.01	2.33	0.55	4.34	0.93	34.29
Bainbridge	1.49	1.44	2.59	2.15	3.25	1.61	5.01	3.84	0.78	3.47	2.06	2.26	29.95
Blakely	2.14	1.85	3.65	10.68	7.03	3.11	8.45	4.06	3.20	2.24	2.96	3.81	53.18
Blue Ridge	4.30	8.99	3.29	4.07	4.34	3.19	7.02	6.36	3.98	2.15	7.26	4.04	58.99
Brunswick	2.17	1.65	0.36	2.49	1.64	5.49	15.23	6.83	1.69	1.87	1.73	3.81	44.96
Butler	2.25	2.77	1.12	3.80	3.06	2.79	6.26	3.82	1.22	1.55	4.39	1.58	34.61
Canton	3.36	7.48	1.99	3.49	3.62	1.17	5.10	4.80	2.25	2.76	4.88	3.72	44.62
Carlton	3.74	4.99	1.54	2.20	3.79	0.65	5.22	5.59	5.86	1.32	5.40	1.21	41.51
Clayton	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.33	6.70	5.60	.....
Columbus	2.45	5.02	2.57	4.30	4.29	2.72	10.24	6.52	0.73	2.75	3.21	2.53	47.33
Concord	3.12	5.27	1.99	3.35	2.68	2.50	3.77	6.03	1.21	2.54	3.35	1.80	37.61
Cornelia	4.52	10.73	1.47	2.90	6.65	1.41	7.95	2.75	6.22	3.00	5.51	3.65	56.76
Covington	4.20	7.25	0.65	2.80	3.00	1.00	7.30	3.75	1.15	1.30	4.75	1.95	39.10
Dahlonega	5.20	10.12	1.79	4.79	5.51	1.80	8.32	3.33	3.60	2.58	5.93	4.38	57.35
Dublin	1.98	1.39	0.42	3.78	5.58	6.02	6.40	6.20	1.20	2.14	3.36	0.80	39.27
Eastman	1.60	1.55	2.65	3.60	6.49	2.28	5.92	3.47	0.93	1.00	5.34	1.84	36.57
Eatonton	3.41	5.13	0.75	1.43	3.81	2.55	6.28	4.45	1.29	1.56	2.32	1.96	34.94
Fair View	3.40	5.21	1.18	2.57	3.44	1.28	6.03	4.06	2.51	2.23	3.80	1.82	37.53
Fort Gaines	1.85	2.60	3.07	5.95	4.45	1.30	6.85	2.58	0.82	1.10	3.53	2.40	37.50
Fort Valley	.....	2.77	1.10	3.10	3.80	2.91	8.24	4.31	1.80	2.21	4.72	1.57	.....
Gainesville	4.85	8.40	2.10	3.13	3.42	0.63	6.33	3.12	2.06	2.19	4.91	3.13	44.27

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Georgia—Continued.													
Gillsville	4.67	9.20	1.23	3.98	5.33	0.56	4.41	3.14	2.37	1.65	4.59	2.35	43.48
Glennville	1.27	1.20	0.94	2.71	5.42	3.98	9.40	9.46	3.81	2.79	2.07	0.59	43.64
Goat Rock	2.40	4.30	2.53	3.22	3.50	1.18	10.10	2.79	0.29	2.97	1.34	1.25	35.96
Greensboro	3.75	5.65	0.25	2.20	4.23	3.41	5.01	5.44	3.19	2.28	4.37	2.02	41.80
Griffin	2.85	5.05	1.00	2.96	2.08	0.28	7.81	4.61	3.09	2.38	2.83	2.38	37.32
Hartwell	5.00	9.84	1.50	2.43	4.60	2.18	3.04	4.13	2.82	2.11	3.50	1.11	42.26
Hawkinsville	1.69	1.55	0.75	3.09	5.80	2.95	10.88	2.11	1.14	1.13	3.98	1.69	36.76
Hazlehurst	1.74	1.30	1.24	3.40	7.02	1.77	6.07	5.19	0.46	1.94	2.22	0.70	33.05
Lafayette									3.50				
Lisbon	3.60	4.25	1.88	1.92	3.25	2.16	2.76	1.28	2.60	1.66	3.25	1.23	29.84
Louisville	3.73	1.78	1.20	2.47	7.26	1.24	8.09	7.80	1.27	1.93	3.69	0.94	41.49
Lumber City	0.64	0.92		1.23	5.83	2.76	8.03	4.77	0.35	1.52	1.33	1.09	
Macon	1.75	2.24	0.86	2.58	4.04	4.00	5.40	5.25	1.74	1.66	4.56	1.13	35.21
Marietta	3.85	5.55	2.63	4.07	3.87	3.50	3.92	7.80	1.72	2.79	4.25	2.22	46.17
Marshallville	2.04	3.67	1.18	4.82	4.49	2.15	10.46	2.63	2.45	2.14	4.13	1.76	41.92
Milledgeville	2.83	3.53	1.28	2.35	4.70	3.26	6.06	3.82	0.80	2.59	3.93	1.81	36.96
Millen	1.43	2.51	0.70	1.95	7.05	4.55	11.37	5.55	4.05	1.40	2.05	1.10	43.71
Montezuma	1.63	1.81	1.92	4.50	4.81	1.36	5.28	2.42	0.65	2.13	3.47	1.46	31.44
Monticello	3.25	5.14	0.93	2.87	3.83	1.92	7.33	4.52	4.23	1.97	2.78	1.96	40.73
Newnan	2.32	6.75	1.52	4.09	2.15	1.95	5.56	3.56	1.26	4.08	4.80	3.07	41.11
Norcross	4.10	6.14	1.00	3.96	3.31	5.06	5.23	4.53	1.55	3.02	5.15	1.77	44.82
Point Peter	4.17	5.05	1.30	2.48	2.74	1.89	6.90	4.21	4.20	1.19	3.55	1.45	39.13
Quitman	2.92	2.05	1.15	2.70	4.58	4.92	8.04	2.27	3.87	2.09	2.99	3.11	40.69
Ramhurst	3.95	9.16	2.13	5.03	2.47	2.53	4.17	6.15	4.22	3.28	8.48	2.64	54.21
Resaca	4.90	9.36	2.02	4.26	2.90	2.15	4.17	5.99	3.00	2.43	7.70	3.06	51.94
Rome	4.80	10.19	2.03	4.09	1.29	1.71	3.03	4.21	3.75	2.05	5.09	2.62	44.86
St. George	3.41	0.83	0.36	1.49	3.94	4.86	6.66	1.68	0.43		1.78		
Savannah	1.48	1.17	1.74	1.68	2.70	5.19	14.34	8.88	2.07	0.95	1.20	0.61	42.01
Statesboro	1.51	1.33	1.61	3.17	5.49	1.52	9.21	5.26	3.80	2.11	2.93	0.35	38.29
Talbottom	2.58	5.32	2.68	3.80	3.54	2.92	5.01	5.64	1.83	2.09	2.47	2.39	40.27
Tallapoosa	4.55	6.80	3.80	3.57	2.16	3.66	2.86	4.46	4.85	3.31	4.96	2.13	47.11
Thomasville	2.39	1.27	3.30	3.09	4.03	3.51	6.71	3.56	1.60	1.68	3.11	2.14	36.39
Toccoa	4.69	10.77	1.43	3.76	4.97	2.35	7.64	5.29	5.21	2.55	5.23	3.17	57.06
Valdosta	1.97	2.10	1.50	3.49	3.73	2.19	8.32	3.07	1.86	1.95	1.46	1.81	33.45
Warrenton	5.53	5.39	1.28	2.40	3.55	1.95	6.49	5.72	1.60	0.92	4.51	1.43	40.82
Washington	4.32	5.72	2.34	1.56	3.93	1.71	4.30	2.93	2.33	2.61	3.97	2.11	37.83
Waycross	1.21	1.46	0.48	3.28	3.77	7.59	19.39	5.96	1.90	0.76	1.76		
Waynesboro	1.85	1.85	1.51	1.65	4.90	4.72	4.70	4.20					
West Point	2.39	4.78	1.80	4.78	3.43	0.86	6.90	3.95	1.40	4.22	3.39	2.54	40.44
Woodbury	2.51	3.37	1.79	2.89	3.39	2.18	6.67	5.00	0.99	2.30	2.69	1.84	35.62
Idaho.													
Aberdeen	0.75	0.40	0.75	2.00	3.06	0.72	0.18	0.44	0.45	0.27	0.45	0.82	10.29
Alpha	5.84	2.54	3.05	2.54	3.32	1.06	0.13	1.01	1.93	1.80	9.22	1.89	34.33
American Falls	1.42				3.32	0.37	T.	0.49	0.20				
Arco	1.95	0.40	0.25	1.05	2.60	0.50	0.22	0.10	T.	T.	0.30	2.20	9.57
Arrowrock	2.35	2.44	1.20	1.60	2.29	0.30	0.00	T.	0.62	0.32	6.10	2.41	19.63
Ashton	2.63	1.30	0.83	0.57	3.98	0.59	0.69	0.84	1.03	0.42	0.62	2.16	15.66
Avery	5.89	3.69	6.05	3.96	0.70	1.95	0.20	0.90	1.40	1.62	5.12	2.43	33.91
Beaver Creek Ranger Station								0.64	1.53				
Big Smoky Ranger Station							0.53	0.53					
Big Springs						1.59							
Blackfoot	1.01	0.70	0.64	1.53	1.88	0.29	0.50	0.89	0.53	0.30	0.61	1.19	10.07
Blackfoot Dam					2.51	1.57	0.93	0.70	0.59	0.96			
Bliss	1.69	1.69	0.42	0.31	3.23	0.12	0.00	0.13	0.21	0.19	2.22	0.98	11.19
Bogus Creek	4.67	2.34	2.77	2.99	3.51	T.	0.00	T.	0.91	1.06	8.18	1.16	27.59
Boise	1.57	1.23	0.84	0.93	2.15	0.09	T.	0.34	0.61	0.16	3.27	0.88	12.07
Bostetter Ranger Station						1.73	0.97	1.43	0.61				
Boulder Mine	4.61	[3.25]	2.82	1.99	3.62	1.26	0.01	0.42	1.34	0.78	5.67	2.03	27.80
Brownlee	5.12	2.01	1.36	2.37	3.48	1.09	0.01	T.	0.90	1.33	2.94	1.18	21.79
Buhl					2.56	0.35							
Burley	1.23	0.88	0.37	2.19	2.86	1.60	0.08	2.30	0.07	0.14	1.09	1.47	14.28
Caldwell	1.17	0.74	0.99	0.53	2.50	0.54	0.00	T.	0.80	0.49	1.26	1.18	10.20
Camas (U. S. Geological Survey)								0.75	0.47	0.46	0.11	4.08	
Cambridge	4.23	2.74	0.78	1.19	2.87	1.38	0.00	0.80	0.71	0.83	4.98		
Challis	0.27	0.36	0.66	1.01	2.43	1.18	0.67	0.46	0.64	0.03	0.50	0.50	8.71
Chattin's Flat	0.38												
Chesterfield					1.74								
Coeur d'Alene	4.35	2.52	2.80	2.21	0.77	1.35	0.22	1.25	0.46	1.75	4.23	2.12	24.03
Cottonwood Creek		2.52	1.72		2.15	T.	0.00	T.					
Council	3.60	2.10	2.40	2.31	2.99	0.75	T.	0.89	0.96	1.23	4.53	2.09	23.85
Cuprum	5.04	2.65	2.12	3.97	4.50	1.48	0.25	1.15	1.90	2.50	7.20	2.12	34.88
Deer Flat	0.81	0.84	0.88	0.52	2.45	0.28	0.00	0.00	0.42	0.23	0.52	0.65	7.60
Driggs	1.74	0.62	0.48	0.70	3.85			0.54		0.62			
Emmett	1.88	1.58	1.01	0.42	2.60	1.00	0.06	T.	0.53	0.63	1.76	0.35	12.42
Felt	1.31	0.98	0.52	0.73	3.62	0.50	0.45	1.84	1.47	0.40	0.40	1.25	13.47
Fish Lake Ranger Station							1.16	0.19					
Fort Hall	1.07	0.45	1.44	3.70	1.39	0.29	0.13	0.97	0.29	0.42	0.57	0.74	11.66
Garden Valley Ranger Station	2.69	3.48	2.53	1.16	2.34	0.58	0.00	0.06	1.37	0.66	5.86	2.41	24.14
Geneva	1.06	1.27	1.60	2.62	1.09	0.69	0.22	1.05	0.49	0.22	1.38	3.44	15.13
Glenns Ferry	0.68	0.86	0.60	0.20	3.18	1.43	0.00	0.02	0.10	0.15	2.48	1.69	11.39
Gooding	1.78	1.55	0.53	0.33	2.44	0.83	T.	0.80	0.25	0.10	1.55	1.01	11.17
Grace	1.52	0.53	0.95	2.82	2.51	0.54	0.78	1.76	0.51	0.46	1.26	3.34	16.98
Grandview Ranger Station						0.54		1.60	1.78	0.72			
Gray's Lake					1.47	1.65	0.84	2.24					
Grimes Pass	5.20	2.95	2.82	1.72	3.57	1.23	T.	0.14	1.62	0.79	6.77	2.02	28.83
Hailey	3.25	0.84	0.42	1.70	4.85	0.60	0.70	0.39	0.41	0.17	2.05	2.74	18.12
Hawley Gulch							1.35	2.74	1.34				
Hazelton	1.62	1.93	0.57	2.08	2.46	0.64	0.11	0.39	0.25	0.13	1.12	1.74	13.04
Hereford							0.46	0.52	1.10	0.93			
Hollister	1.06	0.78	0.24	0.96	3.77	1.25	0.91	0.94	0.28	0.18	0.64	0.33	10.94
Idaho City				1.78		0.03					7.61	1.46	
Idaho Falls	0.82	0.68	0.41	0.89	1.36	0.57	0.60	0.52	0.12	0.48	0.45	1.50	8.40
Indian Cove				0.25									
Irwin	0.96	0.96	1.73	0.62	2.17	0.19	0.15	0.85	0.41	0.58	1.06	1.87	11.24

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Idaho—Continued.													
Jerome	1.58	1.10	0.19	1.16	3.16	0.46	0.03	0.06	0.06	0.03	1.23	0.82	9.88
Kamiah	2.12	1.83	2.08	4.50	1.48	0.73	0.86	0.00	1.88	1.60	4.40	1.75	23.23
Kellogg	3.33	2.85	5.07	3.63	0.92	1.21	0.37	1.18	1.34	2.76	4.70	3.66	31.02
Kirkham	4.37	1.46	1.97	1.57	4.16	1.11	0.00	.....	.....	0.82	4.19	1.30	.....
Kooskia	2.57	2.39	2.12	4.53	2.40	1.01	1.79	0.18	1.38	1.63	4.19	2.10	26.29
Lapwai	2.42	2.46	2.00	2.64	1.15	0.98	0.45	0.00	1.00	0.60	3.86	1.37	18.93
Lemhi	.....	.....	.....	1.41	1.36	1.61	T.	.....	.....	.....	0.79	.....	.....
Lewiston	1.20	1.06	0.98	1.61	1.34	1.05	0.22	0.07	0.79	0.81	2.45	0.91	12.49
Lifton	0.50	0.58	0.79	2.95	1.03	0.60	0.21	1.17	0.19	0.79	0.28	3.19	12.28
Little Camas	.....	.....	0.88	1.02	3.35	0.21	T.	0.58	0.87	0.28	4.55	2.97	.....
Long Gulch	.....	2.04	1.53	.....	2.47	0.10	0.00	0.05	0.90	0.60	6.51	2.00	.....
Loon Creek	2.26	1.16	1.81	1.64	2.89	1.84	0.33	.....	.....	0.38	2.78	1.27	.....
McCall	5.00	2.18	1.94	2.22	2.92	0.61	T.	1.46	1.27	1.31	3.98	2.39	25.28
Mackay	1.44	0.42	0.27	1.00	2.99	0.86	0.12	0.97	0.08	0.03	0.70	1.15	10.03
Malad	2.28	1.56	0.79	1.95	2.34	0.56	0.76	1.56	0.70	0.93	1.39	3.75	18.57
Meridian	1.48	1.21	0.91	0.89	1.99	0.19	0.00	0.07	0.48	0.19	1.85	0.91	10.17
Middle Fork	.....	.....	4.05	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Monteview (U. S. Geol. Survey)	.....	.....	.....	.....	.....	.....	.....	0.31	0.14	0.11	0.07	1.28	.....
Montpelier	1.34	1.50	1.44	2.95	1.74	0.75	1.14	1.14	0.43	0.67	0.97	3.80	17.87
Monumental Buttes	.....	.....	.....	.....	.....	.....	0.10	0.88	.....	.....	.....	.....	.....
Moscow	3.95	2.70	3.25	2.86	1.80	1.47	0.19	0.30	1.43	1.56	3.98	1.88	25.37
Mountainhome	1.25	1.85	0.62	0.65	1.80	0.14	0.00	0.00	0.30	0.15	2.35	1.09	10.20
Mud Lake	.....	.....	.....	.....	2.24	0.36	0.62	0.23	0.42	0.16	0.16	1.95	.....
Murphy	0.38	0.83	0.42	0.48	2.83	0.52	0.00	0.09	0.17	0.05	0.15	0.77	6.69
Murtaugh	1.59	0.70	0.49	2.34	1.61	1.34	0.08	1.00	0.17	0.02	1.40	1.42	12.16
Musselshell	5.76	3.98	4.75	4.86	1.93	1.40	1.41	0.15	3.24	2.51	9.55	3.66	43.20
New Meadows	5.40	2.09	1.69	1.55	3.73	0.36	0.11	0.42	1.65	1.18	4.57	1.52	24.27
Nezperce	1.30	1.69	1.69	3.99	2.28	1.42	1.52	0.59	1.22	0.70	3.26	1.51	21.17
Oakley	0.57	0.74	0.21	3.39	3.40	1.28	0.89	0.29	0.06	0.22	0.47	0.79	12.31
Obsidian	2.60	1.67	1.72	1.59	3.33	1.45	0.43	0.15	1.09	0.36	4.21	1.32	19.92
Orofino	2.62	2.14	2.91	4.64	1.41	0.82	0.73	0.48	1.45	1.14	3.74	2.27	24.35
Oxford Ranger Station	.....	.....	.....	.....	.....	2.42	1.17	0.36	4.52	1.31	.....	.....	.....
Payette	1.88	1.39	0.54	0.34	2.71	[0.91]	[0.00]	0.09	0.55	0.23	1.21	1.30	11.15
Pete King Ranger Station	.....	.....	.....	.....	.....	.....	1.33	0.15	2.13	.....	.....	.....	.....
Pine	3.13	3.51	1.01	1.12	3.53	0.41	T.	0.19	0.97	0.40	5.47	2.96	22.70
Pleasant Valley	1.09	0.82	0.97	0.93	2.85	0.30	0.00	0.11	0.54	0.09	2.21	0.75	10.66
Pocatello	0.95	0.70	0.92	3.23	2.47	0.58	1.06	0.33	0.56	0.56	0.71	1.97	14.04
Porthill	2.45	2.16	1.76	0.87	1.87	1.04	0.29	0.34	0.80	0.85	2.37	1.60	16.40
Potlatch	3.70	2.81	2.56	4.44	0.72	1.14	0.19	0.54	1.56	1.86	4.68	1.90	26.10
Preston	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.62	6.52	.....
Prichard	3.39	5.03	3.36	3.19	1.79	0.90	0.43	1.07	1.17	1.95	3.51	.....	.....
Priest River Experiment Station	3.71	2.59	2.84	2.87	0.91	0.87	0.14	0.48	1.03	2.54	3.72	2.23	23.93
Pyle Creek	4.81	3.57	3.57	0.93	2.60	0.77	T.	0.31	1.47	0.78	5.54	1.56	25.91
Rice	4.37	1.77	0.82	1.02	4.63	0.71	1.85	0.43	0.73	0.58	0.48	2.74	20.13
Richfield	2.09	1.38	0.48	1.53	.....	0.34	T.	0.34	0.17	0.05	1.41	0.85	.....
Rupert	1.38	0.81	0.24	2.29	2.87	0.36	0.02	0.73	0.04	0.10	1.36	1.35	11.55
St. Maries	4.25	2.35	3.25	3.52	1.58	1.29	0.54	0.81	0.70	2.52	4.65	2.12	27.58
St. Michael's Monastery	3.00	2.31	2.05	4.32	2.76	1.74	0.75	0.37	1.44	1.17	5.09	2.16	27.16
Salmon	.....	.....	.....	.....	2.23	1.78	0.12	0.30	0.94	0.24	0.70	.....	.....
Sandpoint	3.05	3.76	3.11	2.81	0.84	1.17	0.08	0.72	1.14	2.58	3.55	3.56	26.37
Sheep Hill	5.66	4.92	1.85	2.37	2.63	0.42	T.	0.03	0.93	0.40	7.85	2.29	29.35
Shoshone	1.30	1.13	0.54	1.27	3.20	0.35	0.10	0.56	0.20	0.04	1.72	0.73	11.14
Soldier Creek	4.29	3.01	1.31	1.14	4.71	0.94	0.02	0.69	1.07	0.35	4.16	2.97	24.66
South Fork Ranger Station	.....	.....	.....	.....	.....	1.75	0.20	1.35	1.25	.....	.....	.....	.....
Spencer	3.45	0.72	0.84	0.58	4.38	0.90	0.72	1.47	1.22	0.64	1.05	3.25	19.22
Springfield	0.98	0.66	1.08	2.41	1.96	0.27	0.05	0.79	0.31	0.17	0.53	1.41	10.62
Stanley	3.53	0.47	2.48	2.45	4.27	2.01	0.40	0.60	1.25	0.86	3.62	1.61	23.55
Sugar	1.38	0.35	0.32	0.83	2.02	0.28	0.31	0.64	0.54	0.38	0.32	1.69	9.06
Sunset Lookout	.....	.....	.....	.....	.....	.....	1.26	1.44	.....	.....	.....	.....	.....
Tripod Mountain	4.01	3.37	1.83	1.65	3.30	0.57	T.	0.43	1.43	0.95	4.03	0.89	22.46
Twin Falls	1.13	1.09	0.45	1.44	2.78	0.61	0.08	0.89	0.06	0.10	1.33	1.33	11.29
Wallace	6.44	3.09	6.84	3.65	0.91	1.86	0.14	1.50	1.89	2.91	6.99	4.21	40.43
Weiser	2.65	1.33	0.86	0.30	1.40	0.57	0.00	0.01	0.23	0.45	1.65	1.40	10.85
Wendell	1.06	0.87	0.55	0.87	3.15	1.43	0.01	0.53	0.13	0.06	1.62	0.68	10.96
Wrensted Ranch	.....	.....	.....	.....	2.68	2.29	1.07	0.27	0.98	0.55	1.53	.....	.....
Illinois.													
Aledo	1.02	0.37	3.86	6.76	3.48	6.19	2.08	6.42	9.90	2.58	1.05	2.54	46.25
Alexander	1.72	0.54	4.93	5.42	0.78	3.97	3.25	4.02	6.85	2.76	2.72	3.03	39.99
Anna	2.95	2.92	6.16	5.69	2.61	5.46	1.54	7.38	5.62	1.04	7.27	2.95	51.59
Antioch	0.40	1.04	5.54	5.16	2.01	1.70	1.40	4.09	6.75	4.31	3.39	3.61	39.40
Astoria	1.58	0.21	4.52	4.90	2.60	3.41	2.56	3.79	5.50	2.36	1.65	2.20	35.31
Aurora	0.81	0.42	4.72	4.87	2.38	3.22	0.95	3.50	5.99	2.85	2.85	4.37	36.93
Beardstown	1.52	0.23	4.61	4.95	1.42	2.82	1.56	4.25	9.45	2.57	1.85	1.80	37.03
Benton	1.98	1.64	4.35	4.10	1.87	1.92	2.04	5.95	7.81	1.00	6.60	3.55	42.81
Bloomington	2.20	0.20	4.69	4.66	2.48	6.50	2.84	10.44	7.84	2.64	3.81	2.48	50.78
Cairo	2.27	3.72	4.26	3.67	1.68	1.83	0.98	4.29	4.80	0.82	11.18	3.02	42.52
Carbondale	2.98	2.28	4.82	4.59	2.24	3.01	1.41	10.73	8.51	1.18	9.56	3.36	54.67
Carlinville	1.98	0.63	6.21	5.78	2.00	3.57	1.69	4.00	5.83	1.33	4.55	2.71	40.28
Casey	1.74	0.68	5.19	3.43	0.60	4.27	1.35	6.66	7.95	3.05	4.51	3.54	42.97
Charleston	1.38	0.88	6.93	3.94	2.07	4.19	1.92	5.94	8.37	2.61	4.34	3.21	45.78
Chester	1.75	1.41	6.12	4.86	2.38	3.54	0.86	4.32	9.23	1.22	5.84	2.83	44.36
Chicago	0.97	0.38	4.00	4.47	0.80	1.57	1.87	4.92	5.72	3.26	3.51	4.63	36.10
Chicago University	1.02	0.37	4.42	4.10	0.83	1.74	2.59	4.81	3.64	2.89	3.52	3.51	33.44
Clinton	1.97	0.56	4.76	3.97	1.82	6.44	1.75	4.06	6.01	2.76	4.66	2.25	41.01
Danville	1.98	0.64	6.32	3.72	1.84	2.98	1.53	4.43	7.39	3.10	4.59	1.37	39.89
Decatur	1.58	0.91	7.71	4.33	1.06	2.85	2.75	5.66	5.62	2.02	4.69	2.48	41.66
Dixon	0.22	0.32	4.64	4.82	1.48	3.89	1.38	6.19	6.72	2.83	1.38	3.19	37.06
Du Quoin	1.93	1.14	4.83	3.52	2.51	4.63	3.64	5.57	8.53	0.89	6.28	2.63	46.10
Dwight	1.53	0.32	4.10	3.77	1.36	5.79	1.92	3.86	7.34	2.70	3.98	2.64	39.31
Edwardsville	1.05	1.04	7.26	6.66	2.88	2.50	2.36	4.08	3.96	1.31	4.12	2.93	40.15
Effingham	1.81	0.74	6.82	3.44	2.60	4.10	0.33	4.95	5.88	0.95	2.11	3.34	37.07
Elgin	0.27	0.23	3.46	4.35	1.04	3.05	0.41	4.23	6.48	4.00	3.61	1.76	32.89
Fairfield	2.12	1.10	5.47	3.22	1.00	4.74	1.81	5.26	5.25	1.44	5.45	4.03	40.89
Fairview	1.46	0.22	4.31	5.17	1.70	3.72	1.17	3.04	4.09	2.68	1.89	1.71	31.16

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Illinois—Continued.													
Flora	2.14	1.09	7.56	3.67	2.01	5.31	1.69	5.58	6.49	1.53	6.22	4.39	47.68
Freeport	0.18	0.23	3.45	4.01	2.96	4.07	2.35	.....	.....	4.42	1.68	2.99	.....
Galva	1.27	0.31	5.59	6.11	1.23	3.65	2.38	6.18	5.95	2.36	1.87	2.47	39.37
Golden	1.50	0.28	4.04	5.56	2.47	3.73	1.49	5.42	9.19	2.80	1.62	1.36	39.49
Grafton	1.88	1.37	6.51	6.49	4.10	6.03	0.41	4.51	5.86	2.23	2.24	3.44	45.05
Greenville	1.01	0.62	6.20	5.01	1.04	4.97	0.65	2.66	3.89	1.34	3.96	2.63	33.98
Griggsville	1.12	0.26	2.46	5.31	2.54	6.96	1.69	3.96	8.69	2.09	2.04	2.20	39.32
Harrisburg	3.07	3.25	5.19	2.69	0.82	2.60	2.29	5.20	3.73	1.82	9.71	3.58	43.95
Havana	1.55	0.15	4.17	5.83	1.67	3.49	4.73	3.52	4.60	2.68	2.01	2.41	36.81
Henry	1.39	0.30	5.24	5.56	2.16	4.76	.....	.....	10.07	2.88	2.37	2.79	.....
Hillsboro	0.86	0.71	6.56	5.81	1.88	3.70	1.80	4.46	4.23	1.76	4.30	3.21	39.28
Hoopeston	2.17	0.78	5.31	3.91	1.00	2.58	2.47	5.07	5.08	2.84	5.37	1.80	38.38
Joliet	1.21	0.60	3.43	4.68	1.50	3.16	0.83	6.56	5.50	2.62	2.97	3.41	36.47
Kankakee	1.67	0.46	4.49	4.02	1.94	2.86	1.51	5.10	4.77	2.43	3.51	1.95	34.71
La Harpe	1.65	0.66	6.02	6.44	2.58	4.36	2.53	4.62	7.26	2.63	1.55	1.98	42.28
La Salle	1.35	0.33	4.85	4.88	2.96	3.54	0.81	5.96	6.73	2.67	2.56	3.37	40.01
Lincoln	2.75	0.53	4.11	4.90	1.02	4.30	2.00	5.02	5.02	2.15	3.52	2.26	37.58
McLeansboro	1.80	1.33	5.34	3.50	2.08	3.52	1.13	3.70	6.85	.....	4.55	4.44	.....
Macomb	1.85	0.22	3.99	5.36	2.34	3.77	2.14	4.54	8.76	3.78	1.55	1.72	40.02
Marengo	0.24	0.68	4.99	5.77	0.87	4.91	1.54	3.82	9.16	4.16	2.22	4.00	42.36
Mascoutah	1.17	0.78	6.32	5.84	3.58	3.74	0.72	2.80	5.21	1.54	4.65	1.31	37.66
Minonk	0.89	0.30	5.04	5.76	3.20	6.25	2.84	5.28	9.27	3.28	2.47	1.84	46.42
Monmouth	1.21	0.33	4.99	4.90	1.66	6.19	2.43	4.58	6.32	2.38	1.40	2.71	39.10
Morris	1.23	0.42	3.65	4.63	1.80	3.34	1.27	6.77	6.94	2.44	2.95	2.56	38.00
Morrison	0.26	0.56	5.38	5.77	1.85	3.01	2.05	5.98	7.78	2.25	1.23	4.13	40.25
Morrisonville	1.64	0.81	5.90	4.80	1.67	3.22	8.10	5.11	5.60	2.02	4.27	2.42	45.56
Mount Carmel	2.21	1.91	4.18	2.21	2.11	3.64	2.25	3.11	3.01	1.65	3.74	4.24	34.26
Mount Carroll	0.15	0.28	3.27	4.94	2.31	3.04	0.94	4.27	.....	3.24	1.20	3.18	.....
Mount Vernon	2.04	1.38	6.59	3.52	2.67	4.11	0.12	5.37	4.49	0.95	5.82	4.45	41.51
Nashville	2.67	1.98	7.08	5.09	2.30	4.40	0.32	5.01	6.21	1.53	4.21	2.94	43.74
New Burnside	3.14	3.30	6.08	4.90	2.60	3.05	1.20	6.31	7.09	2.56	8.00	3.73	51.96
Olney	2.58	0.93	6.25	2.48	2.23	3.61	2.38	4.72	6.38	2.21	5.07	3.71	42.55
Oregon	0.23	0.33	5.60	5.85	2.28	2.53	1.12	4.58	7.39	3.55	1.81	4.09	39.36
Ottawa	0.71	0.32	3.98	4.27	2.15	2.87	1.11	6.38	6.87	.....	.....	.....	.....
Palestine	2.26	0.98	6.35	2.53	1.22	2.01	1.51	7.78	6.13	2.70	4.27	3.84	41.58
Pana	1.30	0.79	5.73	4.47	1.95	4.89	3.41	6.98	.....	1.88	4.58	2.87	.....
Paris	2.42	0.60	5.36	3.35	3.73	3.72	2.16	6.93	.....	.....	4.11	4.09	.....
Paw Paw	0.63	0.40	5.69	5.44	2.16	3.07	0.68	5.68	7.06	2.31	1.95	3.89	38.96
Pearl	1.26	0.70	3.98	6.17	2.89	3.18	0.68	5.33	6.51	1.92	2.78	2.39	37.79
Peoria	1.39	0.29	4.89	6.36	2.13	2.17	3.95	3.86	4.86	2.97	3.43	2.91	39.21
Pontiac	1.46	0.20	3.92	4.57	1.37	2.92	2.45	3.15	7.42	2.77	3.35	1.75	35.33
Quincy	1.76	0.41	3.48	5.20	2.58	3.82	2.04	3.64	8.10	1.52	1.21	1.30	35.06
Roberts	2.10	0.51	3.37	3.68	1.33	2.63	1.82	3.99	7.39	2.57	3.61	1.24	34.24
Rockford	0.12	0.53	3.64	6.29	1.34	3.36	0.72	4.21	6.27	4.27	1.99	3.56	36.30
Rushville	1.82	0.33	3.82	4.92	1.89	3.35	0.87	5.93	7.77	2.02	1.40	1.81	35.93
Salem	1.77	0.99	6.63	3.62	2.38	3.83	1.97	4.62	5.33	1.59	4.46	3.61	40.80
Shawneetown	3.17	4.42	5.06	4.70	1.84	2.36	1.90	6.10	4.26	2.35	10.50	4.64	51.30
Sparta	1.66	1.32	6.10	5.97	3.37	4.37	3.16	4.18	6.45	1.41	4.67	3.39	46.05
Springfield	1.68	0.71	5.09	4.75	1.17	5.41	1.67	5.18	4.33	1.61	3.25	2.71	37.56
Sycamore	0.36	0.30	5.51	5.46	1.23	3.85	0.76	4.52	6.01	3.45	3.03	4.40	38.88
Tiskilwa	1.44	0.27	6.42	5.85	3.63	2.78	1.76	5.97	8.76	3.82	1.84	2.51	45.05
Tuscola	1.65	0.49	5.93	4.19	2.27	2.80	1.08	5.08	8.52	2.89	3.73	2.26	40.89
Urbana	1.60	0.49	5.82	5.25	5.26	1.68	2.54	4.26	5.64	2.23	4.91	1.98	41.66
Walnut	0.75	0.32	5.28	5.19	2.03	2.79	1.28	8.50	9.22	2.88	1.91	2.89	43.04
Warsaw	1.41	0.42	3.57	5.48	2.35	3.14	0.81	6.87	7.60	3.73	0.96	1.80	38.14
Waterloo	1.60	0.74	6.00	6.27	4.49	4.33	0.78	3.89	5.46	1.84	4.99	2.09	42.48
Watseka	.....	.....	.....	.....	.....	.....	4.12	4.50	.....	2.70	4.10	2.05	.....
White Hall	1.17	0.77	4.06	5.70	2.01	3.04	2.69	5.76	7.67	1.73	2.87	2.87	40.34
Windsor	1.57	0.96	6.37	4.00	1.85	7.47	2.89	5.22	7.39	1.31	3.57	3.29	45.89
Indiana.													
Albion	1.67	0.61	3.54	5.02	2.87	2.81	1.32	5.18	2.96	4.04	4.03	2.61	36.66
Anderson	2.14	0.94	6.40	2.82	3.04	5.56	1.99	4.85	6.87	2.57	3.15	2.37	47.70
Angola	2.13	1.04	4.16	4.90	3.52	3.16	2.15	5.08	4.55	4.01	3.98	2.78	41.46
Auburn	1.77	1.09	4.47	4.54	3.50	3.65	1.89	4.46	3.20	3.99	3.25	1.80	37.61
Bedford	3.09	3.07	5.59	4.38	2.34	3.58	1.58	7.97	8.62	1.66	7.87	5.86	57.61
Berne	1.99	1.50	6.35	4.51	3.49	4.68	1.70	3.28	3.90	3.10	5.94	2.22	42.66
Bloomington	3.16	2.10	7.04	5.05	3.15	3.18	2.78	5.81	10.17	2.14	7.07	4.77	56.42
Bluffton	2.16	1.89	6.78	4.34	1.69	7.08	1.68	3.80	4.26	3.89	4.92	2.21	44.70
Butlerville	3.59	3.84	7.02	6.49	2.18	7.17	1.78	4.43	6.14	3.23	9.38	6.11	61.36
Cambridge City	3.27	1.31	7.14	5.81	1.54	4.03	4.67	3.63	5.41	2.53	6.17	4.20	49.71
Collegeville	1.99	0.62	3.90	3.91	1.95	1.63	3.74	7.27	4.95	3.00	4.49	1.26	38.71
Columbus	3.25	1.93	6.64	3.88	2.01	4.26	1.97	2.81	7.60	1.68	5.30	5.25	46.58
Connersville	2.15	1.10	6.51	5.73	1.32	4.04	1.85	6.40	5.89	2.53	5.40	2.99	45.91
Crawfordsville	1.11	0.23	5.41	4.62	0.99	4.18	2.83	5.91	10.91	3.03	5.64	2.87	47.73
Dam No. 39, Ohio River	2.26	2.17	6.10	4.01	3.71	3.90	2.44	5.43	3.58	3.41	6.91	6.13	50.05
Decker	1.79	2.04	3.30	2.99	2.11	2.83	2.21	2.94	6.30	2.03	4.04	5.05	37.72
Delphi	2.55	1.56	5.99	5.04	2.08	3.76	1.38	6.46	7.20	4.85	5.91	1.69	48.47
Elliston	1.47	1.03	5.48	2.63	3.17	3.26	1.50	6.29	6.56	0.52	4.32	3.85	40.08
Evansville	1.80	4.69	4.52	3.42	1.56	2.44	2.45	5.26	3.87	2.03	9.24	5.18	46.46
Farmersburg	1.63	0.88	6.83	2.47	1.81	2.40	2.82	4.72	7.23	2.44	4.87	2.85	40.95
Farmland	1.72	1.10	7.89	3.68	2.74	2.55	0.78	4.90	3.38	1.88	6.38	1.90	38.90
Forest Reserve	2.83	3.06	4.85	3.76	2.16	5.29	2.18	4.89	4.75	1.90	6.63	7.11	49.41
Fort Wayne	2.11	0.88	5.09	3.14	2.54	3.58	1.00	4.05	2.88	3.34	3.54	1.65	33.80
Frankfort	2.48	0.83	5.53	4.46	1.45	2.18	3.39	8.47	7.16	3.94	6.49	2.83	49.21
Goshen	1.81	0.74	3.91	4.22	3.50	2.21	2.49	6.08	3.40	5.31	3.64	2.09	39.40
Greencastle	2.36	1.11	6.57	4.11	2.25	2.34	0.82	7.95	7.71	2.80	5.08	3.64	46.74
Greenfield	3.48	1.17	8.12	6.38	1.89	2.90	4.12	5.99	5.37	2.32	11.35	3.39	56.48
Greensburg	3.11	2.17	6.54	4.97	1.86	3.41	1.97	4.04	5.57	2.48	6.53	5.10	47.75
Hickory Hill	2.57	1.45	6.64	4.18	2.63	5.34	1.31	3.95	6.38	2.31	6.24	4.66	47.66
Hobart	1.31	0.43	3.17	3.54	1.34	2.14	1.19	6.41	4.27	2.75	4.42	2.08	33.05
Howe	2.10	1.05	4.41	4.48	2.09	3.39	1.49	5.73	2.97	4.08	3.73	3.74	40.06
Huntingburg	3.03	5.57	5.70	5.41	2.79	4.14	2.73	3.32	5.68	1.32	3.15	9.19	57.03
Huntington	3.16	1.56	3.63	3.41	.....	2.68	1.48	4.27	1.98	2.74	4.04	.....	.....
Indianapolis (Weather Bureau)	2.86	1.28	7.25	3.73	1.55	3.22	1.42	7.26	7.54	1.70	8.91	3.27	49.99

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Indiana—Continued.													
Indianapolis (Speedway)	2.18	.....	7.87	4.73	2.89	4.54	2.83	5.57	8.55	2.28	9.71	3.13	.....
Jeffersonville	2.92	2.63	6.14	4.21	2.58	3.64	1.06	5.18	4.65	1.83	7.76	6.30	48.90
Kokomo	3.31	1.37	8.18	4.68	1.48	3.29	0.98	5.28	7.75	4.08	8.06	1.24	49.70
La Fayette	2.23	0.84	5.31	3.87	1.07	3.94	4.66	5.94	5.75	3.88	5.41	2.07	44.97
Laporte	1.02	0.38	5.23	4.80	2.23	1.32	0.98	6.21	3.88	4.55	3.23	3.04	36.87
Madison	2.38	2.94	5.88	4.69	2.95	5.92	2.69	5.47	5.26	2.51	7.10	6.90	54.69
Marengo	2.26	4.39	5.39	4.61	2.82	2.60	1.93	3.33	3.95	1.59	7.56	6.24	46.67
Marion	2.06	0.85	5.52	2.74	1.63	2.10	0.77	5.20	4.37	3.39	5.00	1.60	35.23
Mauzy	3.47	1.77	7.60	4.30	1.88	3.33	3.09	4.92	5.36	2.34	6.29	4.25	48.60
Monticello	4.61	2.00	4.03	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Moores Hill	2.11	3.15	5.84	3.59	3.05	7.79	4.03	3.70	4.26	2.91	8.13	5.97	54.53
Mount Vernon	2.43	4.63	4.93	2.94	1.78	5.11	0.80	3.93	1.82	2.14	6.51	4.87	41.89
Muncie	3.07	2.01	6.90	4.58	2.83	5.13	1.02	4.32	5.77	2.60	7.39	2.44	48.06
Noblesville	2.98	1.16	6.20	5.26	3.09	4.01	3.30	4.41	7.33	2.39	6.93	2.60	49.66
Notre Dame	0.76	0.34	4.02	3.44	2.81	2.06	1.66	5.38	2.62	6.28	1.91	2.00	33.28
Paoli	2.92	3.13	5.68	4.16	2.23	1.02	3.19	6.43	5.84	2.00	6.69	8.19	51.48
Plymouth	0.61	1.47	3.65	3.90	3.98	3.60	1.76	6.77	3.41	5.00	4.17	2.57	40.89
Princeton	1.98	2.06	5.64	3.77	4.48	4.69	1.54	2.88	4.10	2.49	5.48	5.53	44.64
Richmond	2.97	1.68	6.96	4.62	1.64	2.19	1.69	3.27	3.94	2.40	6.15	3.93	41.44
Rockville	2.18	0.89	6.53	2.75	2.25	6.06	4.50	6.55	5.62	3.03	6.30	3.76	50.42
Rome	3.17	3.46	7.06	4.27	2.32	2.57	2.10	5.03	5.65	2.60	9.48	5.13	52.84
Royal Center	2.45	0.79	4.51	4.68	1.91	2.33	1.07	6.31	2.89	3.46	4.57	2.15	37.12
Salamonia	6.19	1.74	8.19	6.63	3.37	1.75	1.44	2.77	5.28	3.00	9.52	4.51	54.39
Salem	3.22	3.78	5.46	4.55	2.43	3.39	1.82	5.25	2.36	1.67	8.10	7.63	49.66
Scottsburg	3.20	2.85	4.94	4.50	1.88	4.09	2.56	5.19	6.21	1.86	6.38	7.01	50.67
Seymour	2.75	2.08	5.88	5.40	3.20	6.63	1.38	4.87	7.46	2.92	7.24	6.46	56.27
Shelbyville	3.55	1.66	8.25	5.30	2.05	1.79	2.70	7.50	6.57	2.10	6.99	4.33	52.79
Shoals	2.35	2.90	5.28	4.49	2.80	2.37	4.03	5.05	8.14	2.10	4.76	5.61	49.88
South Bend	1.62	0.38	3.98	2.71	2.98	1.91	1.23	7.07	3.42	5.44	3.56	2.46	36.76
Terre Haute	1.67	1.06	6.47	1.97	1.97	3.77	2.91	4.27	9.78	2.42	5.08	3.43	44.80
Valparaiso	1.65	0.75	4.89	4.72	1.19	1.20	1.14	6.10	4.33	3.18	4.09	2.52	35.76
Veedersburg	3.02	0.78	7.08	3.95	2.05	3.11	3.28	5.96	12.20	3.90	5.40	2.12	52.85
Vevay	.....	.....	.....	.....	.....	6.54	3.76	6.07	4.04	.....	.....	.....	.....
Vincennes	2.66	1.96	6.26	3.72	1.81	3.58	1.20	6.99	6.99	2.21	5.31	4.00	46.69
Washington	1.89	2.55	5.18	3.89	3.48	3.27	2.37	4.64	6.79	1.33	5.75	4.63	45.77
Wheatfield	2.93	0.62	3.99	3.46	0.65	2.76	2.38	6.74	4.16	2.35	3.34	2.09	35.47
Whitestown	2.34	0.94	5.50	4.93	1.67	2.17	1.39	5.06	7.64	2.80	5.78	2.71	42.93
Whiting	1.61	0.70	3.23	3.69	1.32	3.12	1.08	6.70	3.49	2.73	3.54	3.50	34.71
Williams	2.32	2.39	6.08	4.25	2.28	4.12	1.98	5.83	9.79	1.03	5.97	5.67	51.71
Winamac	1.96	0.95	4.10	5.68	1.96	1.58	1.90	8.79	4.70	3.60	4.65	2.00	41.87
Winona Lake	1.19	0.82	2.02	5.72	2.75	2.08	1.82	5.44	3.84	5.15	4.32	3.04	38.19
Iowa.													
Afton	0.66	0.33	1.25	3.47	2.69	4.90	2.97	3.21	7.28	2.44	0.10	0.13	29.43
Albia	0.48	0.22	1.33	4.60	4.01	5.15	1.33	6.73	7.71	2.81	0.19	1.45	36.01
Algona	0.45	1.12	1.73	1.86	9.41	2.54	2.23	4.94	5.98	1.34	0.77	0.24	32.61
Allison	0.35	0.90	1.05	4.73	4.59	3.00	1.41	4.30	6.21	0.85	1.06	0.60	29.04
Alta	0.27	0.78	1.14	1.29	6.50	1.20	2.99	5.98	3.72	1.46	0.46	0.58	26.37
Alton	0.55	0.85	0.69	1.53	6.95	0.56	3.24	2.50	5.80	0.62	0.55	0.40	24.24
Ames	0.32	1.03	1.40	4.14	2.81	4.41	1.54	7.19	6.81	1.45	0.30	0.81	32.21
Atlantic	0.38	0.99	.....	.....	4.52	5.90	4.57	3.51	9.24	2.75	0.21	0.30	.....
Audubon	0.45	1.64	1.45	2.02	1.91	4.70	4.44	2.79	8.37	2.26	0.04	0.57	30.64
Baxter	0.35	0.41	1.21	3.54	2.53	3.01	1.22	4.49	.....	0.84	0.50	0.61	.....
Bedford	0.75	0.89	1.29	3.59	2.40	2.37	3.03	4.59	5.54	3.03	T.	.....	.....
Belle Plaine	0.44	0.67	1.88	4.99	4.28	6.12	1.72	5.88	11.14	2.38	1.31	3.02	43.83
Belmond	0.61	2.00	0.89	2.84	5.06	1.74	0.94	5.17	7.15	0.85	1.16	1.41	29.82
Bloomfield	0.20	.....	.....	5.76	4.04	5.16	2.29	.....	.....	.....	.....	.....	.....
Bonaparte	1.00	0.43	1.87	5.92	1.36	5.93	2.71	.....	7.32	2.37	0.34	1.71	.....
Boone	0.23	0.98	0.98	2.63	3.41	7.26	.....	.....	.....	1.55	0.46	1.00	.....
Britt	0.18	0.56	1.07	1.31	6.06	1.59	0.43	4.19	.....	.....	0.18	0.18	.....
Burlington	1.89	0.64	6.62	5.35	1.96	6.69	0.90	4.08	5.20	2.54	0.67	2.47	39.01
Carroll	0.40	1.08	1.33	2.92	7.11	3.39	3.80	6.64	7.46	2.46	0.35	0.69	37.63
Cedar Rapids	0.44	0.28	1.33	3.60	2.48	1.25	1.75	4.31	7.04	1.95	0.60	2.15	27.18
Centerville	0.51	0.43	1.99	4.37	2.92	6.07	1.68	4.43	8.94	3.01	0.22	1.00	35.57
Chariton	0.52	0.41	1.72	4.32	3.02	7.33	2.90	5.07	9.34	2.21	0.28	0.96	38.08
Charles City	0.58	0.95	0.93	3.59	5.96	2.93	1.83	6.74	7.07	2.27	0.96	0.85	34.66
Clarinda	0.61	0.30	0.84	2.19	2.25	3.25	4.39	3.01	5.79	3.11	T.	0.38	26.12
Clinton	0.46	0.52	4.56	4.54	2.14	3.35	2.66	4.42	10.18	2.25	1.61	3.36	40.05
Columbus Junction	0.85	0.74	3.45	5.86	2.23	4.03	2.03	6.46	11.20	2.52	0.87	2.47	42.71
Corning	0.33	0.32	0.93	2.14	2.85	3.09	4.69	3.88	4.80	2.86	T.	0.27	26.16
Corydon	0.61	0.48	2.09	4.38	3.16	4.52	1.25	5.01	7.83	2.61	0.17	0.95	33.06
Creston	0.71	0.45	1.04	3.13	2.91	5.95	2.92	4.33	6.18	3.60	0.21	0.37	31.80
Cumberland	0.75	0.50	0.73	1.75	2.18	4.39	2.42	2.20	6.85	2.75	.....	.....	.....
Davenport	0.47	0.31	4.23	4.77	2.69	3.64	2.21	6.62	7.92	2.38	0.77	3.72	39.73
Decorah	0.55	0.66	1.16	3.23	.....	3.28	5.08	4.24	6.70	2.00	1.43	0.84	.....
Delaware	0.35	0.32	1.83	4.26	5.34	2.46	1.45	4.91	.....	.....	.....	.....	.....
Denison	0.57	1.36	1.31	2.69	6.05	2.22	3.22	7.55	4.62	2.37	0.40	0.21	32.57
Des Moines	0.59	0.92	1.07	3.72	3.62	4.66	2.49	6.63	7.16	1.51	0.35	0.80	33.52
Dubuque	0.18	0.29	2.05	4.70	2.26	3.54	2.48	4.29	8.35	3.43	0.91	2.43	34.91
Earlham	0.60	0.64	0.74	2.54	2.14	3.95	3.77	4.10	6.56	2.26	0.20	0.25	27.75
Estherville	.....	0.90	0.75	2.30	5.90	4.17	2.11	5.05	5.25	1.05	0.65	0.55	.....
Fairfield	0.90	0.77	2.67	4.96	3.70	7.78	1.36	6.08	7.42	2.62	0.46	1.97	40.69
Fairport	.....	.....	4.85	4.83	3.34	6.26	1.18	5.39	10.64	2.48	1.31	3.25	.....
Fayette	0.43	0.89	2.25	4.59	8.86	4.23	1.63	8.24	9.76	2.13	1.30	1.21	45.52
Forest City	0.67	0.48	1.17	1.25	6.04	3.16	1.28	4.47	5.69	1.47	0.98	0.72	27.38
Fort Dodge	0.51	1.21	2.10	2.50	5.82	3.94	1.87	7.93	7.74	0.92	0.65	1.16	36.35
Glenwood	0.40	0.38	0.88	1.96	3.10	4.76	5.66	4.11	7.68	1.69	T.	0.02	31.64
Greenfield	0.71	0.73	1.11	3.03	3.00	2.88	3.80	3.87	6.93	2.50	0.14	0.10	28.80
Grinell	0.34	0.38	1.45	3.80	3.07	3.82	0.58	6.50	11.46	1.28	1.20	1.47	35.35
Grundy Center	0.40	0.55	1.43	4.33	3.14	2.48	0.80	7.66	4.44	1.26	0.60	0.85	27.94
Guthrie Center	0.80	1.02	1.10	1.56	2.94	3.77	3.77	5.37	5.07	2.06	0.17	0.39	28.02
Harlan	0.38	1.28	0.90	1.47	2.47	1.11	7.13	2.67	4.08	3.01	0.11	T.	24.61
Humboldt	0.27	1.37	1.81	2.45	4.80	.....	2.81	4.35	4.29	.....	1.04	0.20	.....
Independence	0.20	0.50	1.22	3.94	2.44	3.23	1.15	5.11	8.07	2.30	0.76	1.33	30.25
Indianola	.....	1.10	1.38	3.98	3.80	6.06	1.73	5.71	8.47	2.12	0.18	0.38	.....
Inwood	0.26	0.20	1.33	2.23	5.95	3.09	4.36	2.82	2.96	0.56	0.20	0.91	24.67

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Iowa—Continued.													
Iowa City	0.35	0.49	2.46	6.20	4.44	2.46	3.59	8.61	7.83	2.47	0.74	3.19	42.83
Iowa Falls	0.37	1.56	1.01	3.43	3.98	2.20	0.74	4.82	5.48	1.00	0.72	0.89	26.20
Jefferson	0.40	1.50	0.63	1.44	3.56	3.66	3.14	6.84	7.35	1.76	0.28	0.71	31.27
Keokuk	1.92	0.48	5.13	3.91	1.72	2.53	0.55	5.34	7.48	2.56	1.12	2.25	34.99
Keosauqua	1.21	0.56	2.29	5.09	2.22	4.40	2.35	4.10	5.06	2.89	0.66	1.95	32.78
Knoxville	0.65	0.76	2.02	4.68	3.13	8.85	1.94	5.34	9.10	2.04	0.52	0.91	39.94
Lacona	0.77	1.10	1.70	3.95	3.17	6.25	1.50	5.07	9.03	1.80	0.38	1.70	36.42
Lamoni	1.08	0.41	1.33	3.54	3.13	5.12	3.19	4.57	5.85	2.70	0.18	0.22	31.32
Lansing	.....	.....	0.97	3.42	7.44	1.33	3.33	4.80	8.85	2.30	1.19	.....	.....
Le Claire	.....	.....	4.98	5.38	2.09	4.19	2.17	7.94	8.35	2.36	1.46	.....	.....
Le Mars	0.15	0.57	0.49	1.16	5.46	1.70	2.88	5.14	1.72	1.44	0.27	0.20	21.18
Lenox	0.55	0.42	1.26	3.00	3.13	5.07	3.62	4.51	4.92	3.05	T.	0.42	29.95
Little Sioux	0.35	1.20	1.24	2.15	3.25	2.77	6.16	4.03	3.07	2.04	0.46	0.10	26.82
Logan	0.35	1.17	2.02	3.23	3.96	5.37	5.61	3.65	3.10	1.98	0.32	0.35	31.11
Manchester	.....	.....	.....	.....	.....	.....	.....	.....	10.24	3.48	0.58	2.56	.....
Marshalltown	0.63	1.17	1.02	4.62	2.81	2.38	0.67	6.47	7.37	1.18	0.56	1.23	30.11
Mason City	0.60	0.75	1.14	2.35	7.15	3.19	0.42	5.86	5.65	2.33	0.76	0.53	30.73
Milford (near)	0.23	0.58	0.89	1.90	5.70	3.21	1.50	5.10	4.82	0.51	0.53	0.20	25.17
Monroe	0.19	0.55	1.14	3.36	2.50	4.87	1.64	7.30	11.17	1.84	0.41	1.39	36.36
Mount Ayr	0.74	0.39	2.38	3.00	4.39	4.61	2.65	3.85	4.39	3.61	T.	0.21	30.22
Mount Pleasant	0.84	0.44	3.04	6.69	1.37	4.35	2.09	5.47	11.42	2.43	0.46	2.07	40.67
Murray	0.61	0.20	1.11	2.75	2.75	.....	.....	.....	.....	.....	.....	.....	.....
Muscatine	.....	0.63	3.99	5.59	2.59	5.99	1.83	7.01	11.67	1.93	0.82	.....	.....
New Hampton	0.87	1.30	1.03	3.47	8.17	1.85	1.25	7.15	7.62	2.49	1.30	0.25	36.75
Nora Springs	0.58	1.30	1.62	3.88	7.02	3.29	0.68	4.68	7.39	2.21	0.86	1.37	34.88
Northwood	0.52	0.85	1.34	2.04	9.26	2.10	0.97	3.17	5.67	1.91	0.85	0.75	29.43
Oakland	0.45	1.05	0.92	2.18	3.02	2.61	5.17	2.98	8.45	3.15	0.12	0.51	30.61
Olin	0.45	T.	3.90	5.25	3.70	5.75	2.55	5.65	11.95	2.82	1.15	3.30	46.47
Onawa	.....	.....	.....	.....	3.40	1.38	4.79	3.76	2.92	.....	.....	.....	.....
Oskaloosa	0.54	0.83	2.64	5.28	5.12	7.38	3.94	5.37	10.32	2.93	0.34	1.69	46.38
Ottumwa	0.55	.....	2.53	6.01	4.43	4.16	1.77	7.39	8.25	2.97	0.36	2.06	.....
Pella	0.21	0.26	1.50	4.18	3.70	5.13	2.25	6.82	9.94	1.63	0.45	1.34	37.41
Perry	0.32	1.14	1.10	1.64	2.86	7.75	2.62	3.61	6.35	1.40	0.30	0.54	29.63
Pocahontas	0.20	0.97	1.56	2.38	5.54	5.97	3.29	3.90	4.33	1.33	0.65	0.84	30.96
Postville	0.74	0.57	1.78	3.37	7.68	2.46	3.18	9.04	6.13	2.17	0.95	0.66	38.73
Rock Rapids	0.37	0.26	1.26	2.21	7.17	1.66	2.10	4.06	2.18	0.21	0.49	0.41	22.38
Rockwell City	0.48	1.52	.....	.....	.....	.....	2.66	5.67	4.68	1.60	0.37	0.24	.....
Sac City	0.20	1.30	1.43	1.96	3.49	1.13	4.80	3.54	3.26	1.33	0.50	0.40	23.34
Sanborn	0.20	1.00	0.93	2.08	5.56	3.76	1.28	3.13	4.90	0.56	0.35	0.35	24.10
Sigourney	0.31	0.48	2.57	6.04	2.42	6.66	2.35	5.13	7.70	3.19	0.34	1.84	39.03
Sioux Center	0.53	0.95	1.02	2.43	7.08	.....	3.02	3.00	4.49	0.95	0.95	0.75	.....
Sioux City	0.43	1.05	0.67	0.99	3.96	2.10	2.06	3.17	4.59	1.70	0.58	0.31	21.61
Spencer	0.30	1.30	0.93	2.26	5.38	2.02	0.75	3.50	4.16	1.08	0.73	0.45	22.86
Stockport	1.50	0.47	2.74	4.65	2.03	4.02	2.46	5.41	6.71	3.29	0.69	.....	.....
Storm Lake	0.10	0.61	1.03	1.36	4.15	1.08	2.65	4.30	3.60	0.92	0.26	0.38	20.44
Thurman	1.01	0.33	0.62	3.03	3.01	6.72	7.45	6.92	8.40	2.44	T.	0.20	40.13
Tipton	0.12	0.30	2.04	4.74	2.19	3.05	2.36	5.69	8.65	1.81	0.94	2.85	34.74
Toledo	0.44	0.71	1.32	4.05	3.50	5.42	2.18	6.95	9.31	1.29	0.72	1.54	37.43
Van Meter	.....	.....	0.88	2.29	2.70	5.76	2.77	4.61	9.58	1.64	0.17	0.41	.....
Washington	0.40	0.67	2.46	5.71	4.00	2.88	1.50	5.09	8.26	2.57	0.81	3.14	37.49
Washta	0.15	1.10	0.98	1.38	4.18	2.82	3.88	4.99	4.24	1.66	0.50	0.50	26.38
Waterloo	0.27	0.67	1.42	3.45	3.42	5.01	1.52	4.68	6.77	1.85	1.20	1.09	31.35
Waukee	0.38	0.91	0.94	3.32	3.10	4.41	3.16	6.31	8.72	1.72	0.36	0.57	33.90
Waverly	0.55	1.18	0.17	4.09	5.49	2.87	0.85	4.90	5.49	1.50	1.18	0.66	28.93
Webster City	0.55	1.25	0.82	2.20	4.40	2.28	0.45	5.54	7.88	0.94	0.73	0.86	27.90
West Bend	0.36	0.90	0.52	1.89	6.52	3.46	2.48	3.22	3.39	1.30	0.75	0.91	25.70
Williamsburg	0.29	0.55	2.01	4.71	5.06	1.88	2.34	8.09	8.79	2.65	0.70	2.65	39.72
Winterset	0.50	0.60	0.87	3.51	1.32	2.50	2.94	4.93	6.82	3.01	0.29	0.55	27.84
Kansas.													
Abilene	0.86	0.13	0.18	2.21	2.02	2.37	0.94	5.18	3.03	0.47	T.	0.28	17.67
Agricultural College	1.08	0.36	0.16	2.95	3.32	6.25	4.21	4.65	.....	.....	.....	.....	.....
Alden	0.93	0.02	T.	2.46	1.97	8.35	2.15	3.19	2.06	0.52	0.00	0.39	22.04
Alton (near)	0.54	0.04	0.83	3.80	2.11	3.98	6.15	1.74	1.60	0.10	T.	T.	20.89
Anthony	1.37	0.22	2.28	3.95	1.25	6.63	0.70	2.09	5.85	0.05	T.	0.06	24.[illegible]5
Arkansas City	2.22	0.18	2.54	3.32	2.38	9.00	.....	4.14	5.98	0.44	0.02	0.10	.....
Ashland	0.37	0.37	0.23	3.71	0.72	3.70	4.27	1.59	2.32	0.04	T.	0.05	17.37
Atchison	0.99	0.42	1.37	2.54	5.28	6.90	2.96	3.58	7.86	1.57	T.	0.34	33.71
Atwood	1.33	0.04	0.89	2.64	2.48	2.23	2.18	2.79	0.86	0.96	0.15	0.22	16.77
Bazaar	1.23	0.26	2.67	2.35	2.53	4.25	1.94	2.96	3.88	0.78	0.01	0.27	23.13
Beloit	0.65	0.04	0.59	3.21	2.08	1.47	3.09	1.42	0.76	0.17	T.	0.02	13.50
Bird City (near)	0.91	T.	0.80	1.83	1.25	1.96	2.53	3.30	0.76	0.65	0.15	0.22	14.36
Blue Rapids	0.67	0.20	0.77	1.84	3.18	3.83	7.10	1.33	2.64	1.04	0.00	0.03	22.63
Bucklin	0.40	0.40	0.24	3.64	0.84	5.89	2.34	2.55	1.51	T.	T.	0.54	18.35
Burlington	1.16	0.24	2.80	3.14	7.05	5.62	0.94	4.02	6.10	0.99	T.	0.15	32.22
Burr Oak (near)	0.60	0.03	0.40	4.81	1.13	3.06	4.58	1.41	3.15	0.26	0.17	0.01	19.61
Cawker City	0.91	0.00	1.22	4.30	2.61	3.34	7.39	2.65	1.71	0.04	T.	T.	24.17
Centralia	1.25	0.27	0.35	2.86	4.22	9.53	8.27	1.59	4.11	.....	T.	0.17	.....
Chanute	1.98	0.04	2.76	5.20	1.95	6.70	5.36	6.37	4.54	0.53	0.47	0.48	36.38
Chapman	0.95	0.09	0.25	2.70	4.20	3.23	1.65	5.66	4.07	0.52	0.00	0.99	24.31
Cimarron	0.29	0.61	0.02	2.69	0.50	8.68	.....	.....	1.57	0.19	T.	0.45	.....
Clay Center	0.85	T.	0.42	3.27	2.42	5.10	3.50	3.56	2.47	0.60	T.	0.10	22.29
Clyde	0.72	0.05	0.77	3.36	3.50	6.37	3.55	1.50	1.28	0.73	0.12	0.04	21.99
Colby	1.15	0.03	.....	2.61	1.85	3.21	4.15	2.39	2.86	0.45	0.18	0.40	.....
Coldwater	0.30	0.18	0.65	2.63	0.60	9.33	2.75	3.54	2.07	0.09	0.00	0.41	22.55
Columbus	2.07	0.18	4.14	5.42	2.28	6.25	1.44	4.95	4.64	0.73	1.23	1.12	34.45
Concordia	0.50	0.06	0.47	2.79	2.51	3.35	5.24	1.93	1.36	0.72	0.08	0.01	19.02
Council Grove	1.54	0.04	2.57	2.23	6.02	3.72	2.89	3.05	5.33	1.39	0.00	0.52	29.35
Dalton	1.60	0.14	4.28	4.37	1.83	4.98	1.22	2.55	8.08	0.30	T.	0.12	29.47
Deerfield (near)	1.40	0.55	0.03	2.18	0.84	5.17	5.47	0.87	1.21	0.25	T.	1.20	19.17
Dodge City	0.24	0.69	1.01	2.73	1.36	4.48	2.91	2.65	1.53	0.23	T.	0.66	17.51
Dresden	1.05	0.01	0.98	3.04	0.92	1.73	1.91	1.31	2.69	0.61	0.08	0.25	14.58
El Dorado	0.92	0.01	3.46	4.16	2.63	3.46	0.52	6.15	3.78	0.79	T.	0.40	26.28
Elkhart	0.70	1.10	0.70	1.02	1.85	2.66	6.77	0.61	0.65	0.10	T.	0.35	16.51
Ellinwood	0.76	0.13	T.	5.23	1.98	6.22	2.25	3.54	3.09	0.61	0.00	1.31	25.12

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Kansas—Continued.													
Ellsworth	0.54	0.19	T.	4.49	1.98	4.66	2.54	0.87	2.80	0.33	0.00	0.70	19.10
Emmett	0.58	0.52	0.24	3.76	7.30	4.46	3.11	3.68	5.02	1.19	0.06	0.27	30.19
Emporia	1.14	0.23	2.41	2.20	2.66	5.90	1.48	3.63	2.92	0.93	T.	0.45	23.95
Eskridge	1.83	0.26	3.02	2.14	3.84	7.86	3.07	4.80	4.67	1.07	0.00	0.67	33.23
Eureka	.....	0.20	3.02	4.23	3.77	2.91	1.73	2.04	3.59	0.93	T.	0.23	.....
Fort Riley	1.17	0.16	0.31	2.31	4.75	4.63	4.29	6.34	4.58	0.62	T.	0.85	30.01
Fort Scott	2.30	0.50	3.03	7.87	2.97	7.42	5.14	2.62	7.43	1.33	0.83	1.11	42.55
Fredonia	2.22	0.07	1.88	4.27	2.46	6.23	2.12	7.20	5.75	0.83	0.29	0.41	33.73
Garden City	0.76	0.83	0.12	3.49	1.00	6.98	2.56	2.14	2.79	0.06	T.	0.75	21.48
Garnett	1.40	0.15	4.70	2.48	5.89	3.93	3.47	6.33	7.90	0.86	0.12	0.80	38.03
Goodland	1.12	0.06	0.55	2.26	0.92	2.77	1.45	1.01	1.34	0.67	0.09	0.40	12.64
Gove	0.88	0.15	0.34	2.36	3.30	4.64	4.13	1.57	2.52	0.39	T.	0.56	20.84
Greensburg	0.54	0.41	0.30	3.12	1.18	5.37	2.76	2.43	1.03	T.	T.	0.27	17.41
Grenola	2.62	T.	3.26	5.48	1.59	6.02	1.13	4.45	4.16	0.70	0.02	T.	29.43
Hanover	0.44	0.13	0.77	2.38	2.05	3.31	7.55	0.82	1.96	1.18	T.	0.10	20.69
Hays	0.40	0.10	0.49	3.58	2.59	3.67	3.36	3.04	0.68	0.05	0.00	0.50	18.46
Healy	0.67	0.46	0.10	2.02	0.64	3.84	2.48	0.94	0.45	0.18	T.	0.69	12.47
Herington	.....	.....	.....	4.21	3.05	6.48	2.06	2.53	3.57	0.87	T.	0.20	.....
Hill City	0.60	0.09	0.61	1.50	2.14	2.17	2.65	1.58	4.50	0.15	0.03	0.03	16.05
Holton	1.31	0.56	0.44	4.90	5.87	5.91	5.47	3.29	4.28	0.91	0.03	0.27	33.24
Horton (near)	0.53	0.36	0.54	2.56	4.99	5.34	4.21	3.85	4.71	1.81	T.	0.05	28.95
Howard	2.17	T.	2.62	6.23	1.83	5.49	2.91	6.34	4.53	0.39	.....	.....	.....
Hoxie	0.83	T.	0.49	2.14	1.45	4.31	3.45	1.65	4.50	0.61	0.07	T.	19.50
Hugoton	0.72	0.93	9.31	2.83	1.96	3.26	5.18	.....	0.16	0.11	T.	0.85	.....
Hutchinson	1.60	T.	0.51	2.84	0.24	3.83	2.67	2.69	1.08	0.48	T.	0.26	16.20
Independence	2.07	0.20	2.28	3.97	2.01	6.83	2.32	4.12	6.16	0.48	0.52	0.72	31.68
Iola	1.77	0.09	3.60	2.86	4.85	8.41	4.03	5.79	7.10	0.88	0.13	0.52	40.03
Irene	1.52	0.70	0.70	2.24	1.08	3.46	2.24	1.94	1.43	0.66	T.	0.60	16.57
Jetmore	0.11	0.58	T.	2.33	0.27	3.42	5.18	1.50	2.93	0.10	T.	0.40	16.82
Johnson	1.04	0.33	0.70	1.19	2.10	2.84	2.82	2.51	1.05	0.26	T.	0.40	15.24
Kismet (near)	0.60	0.06	0.25	1.12	3.78	3.66	4.67	1.79	.....	0.30	T.	0.10	.....
La Crosse	0.46	.....	.....	.....	.....	.....	.....	.....	.....	0.00	T.	0.73	.....
Lakin	0.83	0.63	0.25	2.06	0.95	3.78	2.93	0.74	3.45	0.10	T.	0.42	16.14
Larned	1.39	0.30	T.	2.54	2.21	5.35	4.46	1.83	1.53	0.25	T.	1.38	21.24
Lawrence	1.90	0.40	5.18	3.76	5.07	3.98	4.82	11.59	6.07	0.52	T.	0.31	43.60
Leavenworth	1.24	0.46	3.24	3.07	6.91	5.39	1.79	7.19	7.47	1.29	0.00	0.09	38.14
Lebo	1.20	0.19	3.44	2.05	4.31	6.07	1.20	4.28	3.45	1.41	T.	0.39	27.99
Leoti	1.11	0.75	0.10	2.57	1.60	3.44	1.11	2.35	1.40	0.15	T.	1.25	15.83
Le Roy	1.48	0.03	4.10	2.93	4.12	10.07	1.88	4.90	6.53	0.82	0.01	0.36	37.23
Liberal	0.55	0.56	0.10	2.09	3.37	2.64	3.87	1.38	2.17	0.34	0.00	1.46	18.53
Lincoln	0.85	T.	0.15	4.03	2.96	4.65	4.88	2.62	4.52	0.27	0.00	0.20	26.13
Lindsborg	1.07	0.04	0.11	2.38	2.76	4.82	0.68	2.69	3.08	0.60	0.00	0.70	18.93
McFarland	1.56	0.58	1.24	2.90	6.16	8.77	5.26	6.37	.....	.....	.....	.....	.....
McPherson	0.88	0.09	0.22	2.21	1.16	4.57	0.45	1.42	2.81	0.88	0.00	0.88	15.57
Macksville	0.41	0.31	T.	4.34	1.47	9.16	2.63	2.59	2.81	0.28	T.	0.55	24.55
Manhattan	1.18	0.12	0.15	2.93	3.60	5.32	4.63	7.80	3.17	1.38	T.	0.34	30.62
Marion	1.19	T.	1.95	3.69	1.98	5.18	0.51	3.62	2.63	1.14	T.	0.40	22.29
Medicine Lodge	0.95	0.12	0.84	2.09	0.61	9.18	2.40	3.76	2.08	0.15	T.	0.23	22.41
Medora	1.27	0.07	0.58	2.77	0.34	4.42	0.40	2.35	1.51	0.82	T.	0.91	15.44
Minneapolis	0.85	0.04	0.19	4.30	3.35	2.23	3.16	4.58	1.86	0.45	T.	0.12	21.13
Minneola	0.42	0.87	0.05	1.72	1.37	6.70	1.55	1.40	2.23	0.24	0.00	0.47	17.02
Mount Hope	1.03	0.06	1.07	3.76	2.01	7.22	0.28	5.00	3.27	0.46	0.00	0.80	24.96
Neosho Rapids	0.95	0.17	2.96	1.93	3.43	5.40	0.55	3.85	3.26	0.81	T.	0.36	23.67
Newton	0.99	0.10	1.13	4.73	2.05	8.24	0.53	6.11	2.69	0.95	0.00	1.32	28.84
Ness City (near)	0.30	0.41	0.25	2.73	1.75	4.13	2.52	1.67	1.92	0.12	T.	0.85	16.65
New Ulysses	0.54	0.39	0.15	2.31	1.05	2.32	2.38	.....	1.46	0.12	T.	0.70	.....
Norton (near)	0.60	T.	1.13	4.37	2.80	2.01	2.28	1.61	1.17	0.25	0.20	T.	16.42
Norwich	1.50	0.00	1.83	4.23	0.85	6.77	1.55	4.07	2.74	0.42	T.	0.37	24.42
Oakley	1.00	0.25	0.30	1.78	2.66	4.84	0.97	2.55	3.01	0.20	0.02	.....	.....
Oberlin	0.81	T.	0.96	2.65	1.57	1.46	5.38	3.73	2.02	0.94	0.09	0.02	19.63
Oketo	0.58	0.13	0.65	2.04	2.07	3.53	5.63	0.69	1.42	1.91	0.01	0.03	18.69
Olathe	1.85	0.33	2.48	2.37	5.34	6.05	5.85	8.01	6.37	1.18	0.09	0.53	40.45
Osage City	1.05	0.32	3.08	.....	.....	12.56	1.47	.....	3.86	1.09	0.00	0.26	.....
Oswego	2.42	0.36	3.82	6.86	2.00	6.93	3.72	3.86	3.85	0.51	0.70	0.85	35.88
Ottawa	1.59	0.12	3.63	3.46	7.15	7.44	6.22	7.47	5.94	0.72	0.05	0.52	44.31
Paola	1.43	0.27	3.62	3.25	4.91	7.57	3.61	10.44	10.07	1.30	0.07	1.14	47.68
Phillipsburg	0.61	0.01	0.56	2.22	3.81	5.41	3.06	2.20	2.43	0.10	0.00	0.00	20.41
Pittsburg	2.07	0.48	4.30	5.56	3.12	5.59	0.65	3.16	6.08	0.38	0.87	1.19	33.45
Plains	0.25	0.60	0.30	1.72	1.24	4.76	9.50	1.82	4.93	0.27	0.00	0.30	25.69
Plainville	0.65	0.19	0.79	3.35	2.84	3.83	3.31	1.01	2.20	0.15	T.	0.30	18.62
Pleasanton	1.96	0.20	4.48	3.70	6.10	11.65	7.09	10.48	8.38	1.00	0.88	1.51	57.43
Pratt	0.80	0.20	0.40	2.84	0.37	6.25	1.90	3.73	1.90	0.42	0.00	0.20	19.01
Quenemo	1.47	0.23	3.02	2.98	3.63	7.01	1.82	8.05	2.93	0.84	T.	0.50	32.48
Randolph	0.79	0.11	0.54	2.38	5.12	7.83	4.54	1.78	1.89	0.87	0.04	0.06	25.95
Republic	0.41	0.10	0.39	3.46	1.38	1.08	3.73	1.07	1.58	0.50	T.	T.	13.70
Reading	1.57	0.18	3.09	2.55	2.11	7.36	0.56	7.63	3.75	0.91	0.00	0.62	30.32
Richfield	0.68	0.85	0.61	1.54	2.69	2.27	6.35	1.05	0.46	0.52	T.	1.05	18.07
Russell	0.79	0.05	0.19	4.27	1.68	2.55	5.37	1.83	2.02	0.17	0.00	0.30	19.22
St. Francis	0.95	0.08	0.63	1.97	2.81	2.81	5.47	1.98	0.78	1.06	0.22	0.28	19.04
Salina	1.01	0.07	0.09	3.55	3.03	3.61	1.30	3.61	3.33	0.50	T.	0.98	21.08
Scott City	0.70	0.65	0.10	1.83	0.87	4.70	2.13	1.31	0.29	0.20	T.	0.80	13.58
Sedan	3.35	T.	2.00	4.56	2.35	4.16	2.37	3.98	6.19	0.36	0.29	0.03	29.64
Sedgwick	0.89	T.	1.24	4.03	2.54	5.16	0.97	4.05	3.57	0.46	T.	0.79	23.70
Smith Center	0.54	T.	0.31	2.73	2.00	1.77	2.87	0.89	2.48	0.13	0.15	T.	13.87
Sublette	0.55	0.95	0.28	1.96	2.35	4.52	4.86	1.75	3.41	0.19	T.	0.75	21.56
Syracuse	.....	0.78	0.62	2.42	1.14	4.17	2.38	1.64	1.53	0.30	T.	1.11	.....
Topeka	1.55	0.23	3.04	2.35	3.71	6.62	4.09	9.73	5.13	0.73	0.01	0.28	37.47
Toronto	1.77	0.02	3.17	4.08	3.77	3.65	1.53	.....	4.53	1.37	0.00	0.07	.....
Tribune	1.68	0.60	0.18	1.88	1.76	2.34	2.24	2.09	1.68	0.40	0.20	1.11	16.16
Trousdale	0.43	0.50	T.	4.30	0.60	1.47	4.12	3.88	4.08	0.23	0.00	0.69	20.30
Valley Falls (near)	1.27	0.38	2.39	2.42	2.86	3.86	2.87	3.49	7.12	0.98	T.	0.23	27.87
Vinland	1.67	0.08	3.55	3.87	6.93	3.91	5.75	11.55	5.96	0.66	0.13	0.57	44.63
Wakeeney	0.45	0.15	0.27	3.37	1.96	4.80	5.19	2.95	2.24	0.21	T.	0.50	22.09
Wallace	.....	.....	.....	2.08	0.60	2.42	2.34	1.93	2.38	0.30	0.02	0.65	.....
Walnut	3.33	0.41	4.38	6.61	3.81	9.27	2.24	3.28	9.06	0.49	0.61	0.99	44.48
Wamego	1.42	0.32	0.51	2.92	4.44	4.97	6.65	5.70	2.11	1.51	0.02	0.31	30.88

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Kansas—Continued.													
Wheaton	1.04	0.54	0.57	3.37	4.19	10.55	2.37	3.02	3.49	2.09	T.	0.18	31.41
Wichita (Weather Bureau)	1.30	0.14	2.18	4.09	1.41	4.31	0.71	4.14	4.05	0.52	T.	0.52	23.37
Wichita (Evaporation Station)	.....	.....	.....	4.03	1.98	3.21	0.19	4.33	3.90	0.74	.....	.....	.....
Winfield	1.56	0.09	3.31	2.28	3.34	4.86	2.44	2.13	2.65	0.29	0.10	0.15	23.20
Yates Center (near)	1.54	0.02	3.13	3.60	3.22	3.58	2.00	3.93	5.88	0.89	0.03	0.42	28.94
Kentucky.													
Ages	2.81	3.47	3.56	3.56	2.33	5.21	.....	.....	.....	.....	.....	.....	.....
Alpha	2.55	3.22	5.36	3.27	2.59	.....	.....	.....	.....	.....	.....	.....	.....
Anchorage	2.62	3.02	7.21	4.07	2.71	1.90	0.87	6.31	3.98	1.95	9.18	5.40	49.22
Ashland	2.57	2.32	3.39	4.26	4.55	3.91	2.80	7.05	4.66	2.09	8.17	4.86	50.63
Bardstown	3.56	3.44	6.76	3.92	2.30	2.13	0.34	7.15	5.38	4.25	8.54	4.64	52.41
Beattyville	3.34	3.22	4.00	4.19	3.52	3.31	3.36	6.67	5.12	2.54	4.71	4.05	48.03
Beaver Dam	2.60	3.75	6.75	4.15	2.70	1.93	1.92	4.19	6.43	3.12	8.35	2.85	48.74
Berea	2.67	3.11	5.15	3.68	1.84	1.58	3.64	.....	6.03	1.40	6.72	3.64	.....
Blandville	3.00	4.45	6.44	4.82	1.98	2.78	2.36	5.11	3.99	0.70	13.07	2.85	51.55
Bowling Green	2.86	3.01	7.92	5.59	1.95	2.47	2.61	4.68	9.22	3.10	10.07	1.37	54.85
Brownsville	4.81	5.20	7.29	5.10	1.56	1.82	1.53	4.70	6.40	2.36	10.24	3.11	54.12
Burnside	3.43	3.11	3.75	3.83	2.32	2.63	4.71	4.92	6.46	1.51	5.41	3.53	45.61
Calhoun	3.87	3.84	7.49	4.95	2.84	3.82	2.05	6.15	8.45	1.70	8.01	3.89	57.06
Camp Henry Knox	3.07	2.99	7.53	5.09	2.19	2.81	.....	.....	5.16	3.08	7.96	4.97	.....
Carrollton	2.00	2.23	5.30	5.19	3.23	3.62	2.38	6.40	3.05	3.44	7.11	6.55	50.50
Cloverport	2.90	1.83	6.35	4.20	2.05	3.11	2.74	3.97	4.83	1.78	7.71	5.82	47.19
Cynthiana	2.50	2.30	3.55	3.50	1.75	2.55	0.85	6.80	7.35	0.40	7.55	6.25	45.35
Earlington	3.05	3.93	8.59	4.08	1.84	0.78	0.94	4.13	4.86	2.01	7.38	3.45	45.04
Eubank	2.49	3.20	3.22	3.64	2.93	1.90	2.16	5.66	9.53	1.60	6.23	4.45	47.01
Falmouth	2.48	2.32	6.59	4.11	1.67	5.35	3.04	4.20	4.76	1.48	7.63	4.80	48.43
Farmers	.....	2.73	3.93	3.43	2.51	2.11	1.50	4.76	4.55	2.06	7.55	6.36	.....
Frankfort	2.81	2.26	5.45	3.62	2.44	2.32	0.82	6.39	2.99	2.96	9.29	5.28	46.63
Franklin	3.19	4.01	5.47	4.14	1.44	2.09	3.32	6.58	6.57	1.88	8.04	2.55	49.28
Glasgow	.....	.....	4.55	4.30	.....	3.80	1.16	3.90	4.30	1.20	8.32	2.69	.....
Greensburg	4.05	3.13	7.65	3.68	1.63	4.10	2.44	4.87	4.46	4.73	7.57	2.91	51.22
Greenville	3.28	3.53	7.00	3.72	2.78	2.78	1.42	7.70	5.19	1.67	8.46	2.98	50.51
Henderson	3.18	4.19	5.26	3.95	2.54	3.92	2.74	4.53	5.37	2.39	9.62	5.97	53.66
High Bridge	3.31	3.34	5.64	4.22	3.06	4.18	3.28	5.43	5.51	4.64	8.69	4.72	56.02
Hopkinsville	3.61	3.77	8.21	4.12	1.94	3.50	3.92	6.35	4.99	1.30	9.38	3.21	54.30
Irvington	2.55	2.61	6.96	3.56	1.55	2.81	0.82	4.03	5.09	1.61	8.46	5.08	45.13
Jackson	2.08	2.43	3.10	2.81	2.31	2.20	5.20	.....	.....	.....	.....	.....	.....
Junction City	3.82	3.61	7.22	4.01	2.78	4.43	3.40	4.04	6.97	4.06	7.02	4.25	55.61
Leitchfield	3.26	3.02	6.45	4.78	2.16	1.53	4.42	6.86	4.77	3.73	10.05	4.29	55.32
Lexington	3.24	2.62	5.06	3.28	1.60	2.16	1.04	3.88	5.10	2.46	6.89	5.74	43.07
London	4.08	2.91	2.75	3.82	2.30	.....	.....	.....	.....	.....	.....	.....	.....
Louisa	2.24	2.24	2.82	3.92	5.85	2.97	3.74	8.30	4.20	3.41	5.61	5.00	50.30
Louisville (Weather Bureau)	2.20	2.65	6.65	4.58	2.82	3.76	1.04	5.40	4.29	1.88	8.32	5.49	49.08
Louisville (No. 2)	2.57	2.63	7.07	4.77	1.85	3.02	1.31	5.39	4.56	1.74	9.13	5.55	49.59
Marion	2.65	4.73	6.32	3.71	2.77	1.32	2.50	3.26	3.09	1.89	6.47	2.94	41.65
Mayfield	3.32	4.31	7.51	5.04	1.42	3.08	3.00	5.14	7.70	0.90	8.20	1.80	51.42
Maysville	3.08	2.65	5.44	4.13	3.13	1.93	3.37	3.89	6.59	1.75	7.86	6.76	50.58
Middlesboro	4.52	4.17	3.32	4.76	1.19	1.93	6.81	6.64	4.20	2.70	5.91	3.91	50.06
Mount Sterling	2.68	3.55	6.22	4.01	2.99	2.42	2.36	5.44	6.64	2.44	8.60	6.63	53.98
Oliver	3.19	2.74	3.84	2.98	3.46	4.67	3.47	5.50	6.40	2.96	6.16	5.49	50.86
Onsonta	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.25	5.16	.....
Owensboro	2.37	3.13	6.94	4.32	1.56	3.18	2.60	5.20	4.15	1.61	8.19	4.18	47.43
Paducah	3.04	4.32	6.46	4.92	1.95	4.40	0.34	4.00	5.55	1.11	9.88	3.67	49.64
Paducah (Lone Oak)	.....	.....	.....	.....	1.74	3.25	2.34	4.55	6.26	1.36	11.85	3.19	.....
Pikeville	3.00	3.40	2.59	4.12	5.26	3.32	5.18	4.88	8.22	1.62	3.78	2.94	48.31
Princeton	3.42	3.94	5.46	4.89	1.83	2.50	2.37	3.80	4.94	1.76	8.22	2.75	45.88
Richmond	2.82	2.73	6.92	2.21	2.26	3.51	2.16	4.92	5.10	2.96	5.34	4.41	45.34
Russellville	.....	2.05	6.33	3.25	1.42	0.95	2.21	3.66	4.77	2.70	.....	3.43	.....
St. John	3.29	3.30	6.79	4.89	2.89	2.36	1.02	5.56	4.83	2.53	9.76	4.55	51.77
Scott	2.03	2.21	6.51	3.84	2.50	3.56	5.58	4.98	3.45	2.92	7.70	5.81	51.09
Shelbyville	2.73	3.34	9.12	4.42	2.46	2.51	1.06	7.63	4.31	4.60	7.55	6.12	55.85
Taylorsville	2.89	3.06	6.11	4.05	3.12	2.21	3.32	5.18	4.46	3.29	7.07	6.21	50.97
Vanceburg	3.66	3.08	4.55	3.12	4.98	3.52	5.73	5.79	6.00	2.17	7.71	5.72	56.03
Williamsburg	4.31	3.32	3.30	5.05	1.62	3.58	5.36	4.04	6.63	1.16	6.09	2.93	47.39
Williamstown	2.31	3.20	6.15	3.99	2.27	4.40	3.68	5.30	3.72	2.23	7.87	6.57	51.69
Woodbury	4.49	3.71	6.10	3.50	1.12	1.34	1.70	3.76	3.71	1.94	9.16	2.56	43.09
Louisiana.													
Alexandria	2.70	3.02	10.08	10.50	3.10	4.30	5.54	3.78	3.21	1.89	1.32	3.56	53.00
Amite	2.90	3.20	10.50	6.10	3.50	4.30	12.85	4.25	5.55	2.50	2.50	4.40	62.55
Angola	1.32	0.16	7.06	10.80	2.17	3.15	5.63	5.60	0.19	3.70	4.50	4.30	43.58
Avoca Island	2.47	0.57	1.31	4.38	5.36	5.16	8.69	7.17	4.04	0.12	1.90	4.91	46.08
Bastrop	.....	.....	.....	7.85	2.16	5.64	3.96	1.42	1.20	0.09	1.85	5.22	.....
Baton Rouge	3.86	1.88	4.21	4.96	3.99	6.11	7.15	2.37	4.64	3.47	1.97	4.40	49.01
Burrwood	.....	0.45	0.59	1.35	1.65	0.53	7.34	6.04	4.26	2.58	1.12	5.76	.....
Calhoun	4.30	2.52	6.66	7.87	2.46	3.92	7.74	3.31	2.44	0.56	1.49	6.23	49.50
Cheneyville	3.69	3.61	12.24	11.14	1.78	6.73	4.87	4.39	3.80	1.66	0.40	6.73	61.04
Cinclare	3.84	1.78	5.70	6.42	2.30	9.06	5.83	4.14	3.51	3.24	3.75	4.77	54.34
Clinton	2.94	1.86	15.36	10.16	2.07	4.36	4.90	3.15	2.91	1.15	1.56	3.55	53.97
Coushatta	4.01	3.04	7.22	6.40	1.74	3.77	8.21	2.22	1.83	1.25	1.69	6.38	47.76
Covington	2.12	1.97	6.10	5.96	1.82	3.68	7.73	3.70	6.78	6.00	2.79	5.56	54.21
Delta Farms	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.30	.....
Dodson	4.34	4.51	7.13	7.63	3.82	2.65	5.24	1.87	4.79	1.87	1.65	5.91	51.41
Donaldsonville	2.29	1.83	3.90	4.70	2.77	4.20	4.53	6.66	2.04	4.54	5.52	4.37	47.35
Franklin	2.45	1.39	1.81	5.63	1.92	7.87	5.00	3.83	4.26	1.79	2.56	5.53	44.04
Franklinton	4.15	1.20	13.06	6.40	0.90	4.74	6.65	1.80	0.90	3.70	1.70	4.80	49.99
Grand Cane	6.11	1.42	6.28	5.26	4.99	2.60	2.52	1.71	3.82	0.22	1.15	3.22	39.30
Grand Coteau	.....	1.20	3.60	7.89	2.56	6.68	7.44	1.81	2.94	2.23	2.36	4.45	.....
Hammond	.....	.....	.....	5.45	1.40	3.05	8.26	4.65	4.01	2.25	3.27	4.95	.....
Houma	1.26	1.41	1.26	3.34	4.21	9.58	11.70	9.16	3.93	1.10	3.60	4.01	54.56
Jeanerette	1.57	2.07	4.24	6.03	2.41	6.59	8.36	2.42	4.43	1.18	2.05	3.71	45.06
Jennings	2.55	2.40	3.22	5.36	3.35	5.62	7.55	2.94	3.51	2.93	1.12	4.36	44.91
Kelly (near)	2.50	1.72	10.00	10.14	3.58	4.01	5.62	.....	2.06	1.46	1.15	7.24	.....
La Fayette	3.02	2.94	4.35	8.60	2.50	5.16	9.67	1.81	3.81	4.05	2.42	5.24	53.57

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Louisiana—Continued.													
Lake Charles	2.14	2.70	4.13	7.34	3.38	8.36	3.95	5.89	3.67	1.12	2.34	4.97	49.99
Lakeside	2.10	2.06	2.82	4.24	2.74	7.50	4.38	5.82	3.69	2.70	4.90	6.48	49.43
Logansport	2.33	2.52	6.28	5.30	6.90	3.03	4.22	1.88	4.30	0.40	1.71	2.25	41.32
Ludington	4.85	1.95	5.71	11.02	3.90	8.19	9.65	3.75	4.22	4.20	1.60	7.20	66.24
Melville	1.75	0.75	5.05	9.35	1.25	3.00	5.70	1.05	3.60	2.40	0.40	3.90	38.20
Merryville	4.39	2.16	6.00	9.10	3.74	6.79	6.16	1.72	4.28	1.99	2.37	7.60	56.30
Minden	5.75	2.66	4.27	5.63	3.98	7.16	6.62	1.35	3.77	0.33	1.25	3.72	47.13
Monroe	5.25	3.10	8.95	6.95	2.40	4.88	7.07	0.86	1.29	0.93	1.29	5.99	48.96
Morgan City	2.42	1.37	1.13	4.74	3.31	7.49	8.58	5.13	3.07	T.	2.29	4.58	44.11
Newellton	3.17	2.53	13.96	10.67	1.70	3.01	4.21	1.27	1.73	0.46	1.51	6.60	50.82
New Iberia	1.65	2.10	2.50	3.70	1.40	5.92	7.10	2.98	1.70	1.85	3.08	3.74	37.72
New Llano (Stables)	2.45	2.20	3.75	3.45	3.25	5.95	3.45	3.30	1.10	1.70	1.20	4.45	36.25
New Orleans (Weather Bureau)	1.16	1.94	5.59	4.87	1.61	9.44	7.90	3.09	3.94	1.85	3.83	3.49	48.71
New Orleans (No. 2)	1.14	2.40	4.03	4.37	2.15	8.22	7.39	5.62	2.81	1.72	3.87	3.25	46.97
New Orleans (No. 3)	1.25	1.73	3.20	3.51	1.41	9.13	6.79	3.32	3.34	1.41	3.48	2.95	41.51
New Orleans (No. 5)	1.10	1.81	4.73	4.42	2.20	7.98	8.16	4.99	2.79	1.65	3.78	3.02	46.63
New Orleans (No. 6)	1.21	1.92	4.98	4.82	1.72	9.71	8.48	2.79	4.19	1.84	4.06	3.52	49.24
New Orleans (No. 7)	1.21	2.13	5.40	4.10	1.87	8.25	6.81	4.69	3.48	1.42	3.43	4.22	47.01
New Orleans (No. 8)	1.05	1.95	4.52	4.46	1.53	8.46	5.36	3.68	4.86	1.94	4.65	3.16	45.62
Paradis	.....	1.20	2.20	4.53	3.45	7.30	3.57	5.10	2.02	0.22	2.00	2.60	.....
Pearl River	1.98	3.47	4.15	5.30	3.24	4.97	11.87	2.69	3.73	2.61	3.41	5.17	52.89
Plain Dealing	3.23	1.94	6.13	11.04	1.06	5.69	6.24	1.31	1.38	0.44	0.79	2.09	41.34
Rayne	2.70	1.80	3.70	5.10	2.70	7.40	6.90	0.80	2.40	2.20	2.70	4.70	43.10
Reserve	2.35	1.00	2.95	3.20	4.25	6.05	9.00	3.15	2.55	1.95	2.95	4.55	43.95
Richland Plantation	2.58	3.25	9.45	10.10	1.76	4.19	3.98	3.48	3.06	1.82	2.09	4.48	50.24
Robeline	3.10	0.90	8.15	7.65	1.10	3.75	6.90	1.20	2.20	0.00	3.20	3.55	41.70
Ruston	4.95	3.84	5.71	7.20	2.13	4.11	.....	.....	1.61	0.00	1.06	3.63	.....
Schriever	2.50	2.00	1.70	5.80	3.50	5.55	4.10	5.05	1.70	1.52	2.30	2.30	38.02
Shreveport	4.18	1.91	3.87	6.24	3.66	3.34	4.29	0.64	0.56	0.03	1.52	1.92	32.16
Simmesport	6.62	0.40	8.98	11.35	0.25	.....	6.19	3.37	.....	.....	1.90	5.00	.....
Ten Mile	.....	.....	4.44	6.78	2.43	5.57	7.58	1.34	5.47	1.56	.....	4.90	.....
Maine.													
Ashland	1.32	1.56	1.69	2.22	1.15	.....	3.66	5.86	2.76	6.11	.....	0.76	.....
Cornish	1.89	3.08	4.15	2.96	1.84	2.51	3.15	1.95	3.17	2.85	5.75	3.05	36.35
Eastport	2.10	2.88	3.01	2.98	1.25	1.02	1.79	1.80	2.36	1.66	5.11	1.33	27.29
Eustis	1.13	1.36	1.57	.....	0.45	2.29	2.48	2.61	1.75	3.70	4.27	1.28	.....
Farmington	0.96	2.00	2.79	3.61	1.92	1.78	2.34	5.60	2.34	3.44	5.72	1.48	33.98
Gardiner	1.88	3.50	3.50	3.60	1.45	2.67	2.75	4.19	2.45	3.10	5.09	2.31	36.49
Greenville	1.48	2.22	1.95	2.61	1.97	2.88	5.06	5.56	3.53	4.82	5.69	2.02	39.79
Houlton	1.25	1.40	1.62	2.39	1.43	1.36	2.32	4.29	2.35	2.36	2.50	.....	.....
Jackman	.....	.....	.....	.....	.....	.....	.....	2.26	1.88	4.08	4.55	1.06	.....
Lewiston	1.95	3.82	3.63	3.56	1.57	2.47	1.68	2.38	2.33	2.61	5.95	2.81	35.06
Madison	0.66	2.87	2.75	3.47	1.55	0.95	2.21	4.44	2.39	2.75	4.85	3.23	32.12
Millinocket	1.90	2.90	3.35	3.46	1.26	1.76	2.85	6.34	2.84	3.17	5.34	2.19	37.36
Milo	.....	.....	.....	.....	.....	.....	.....	4.73	2.30	3.96	.....	3.56	.....
North Bridgton	1.75	2.77	3.39	4.25	1.89	1.58	3.28	2.35	3.01	2.87	6.59	2.97	36.20
Orono	1.76	1.98	3.27	2.96	0.71	1.03	1.93	2.44	2.00	2.02	4.88	1.01	25.99
Portland	1.83	4.24	2.61	3.41	2.06	2.70	3.20	2.59	1.64	2.18	6.85	3.35	36.66
Presque Isle	2.30	1.55	2.35	2.36	1.63	1.58	2.49	5.43	3.15	2.20	3.72	1.35	30.11
Rumford	1.02	2.13	3.08	2.90	1.03	1.31	2.86	4.90	2.40	2.73	5.10	2.11	31.57
The Forks	1.17	.....	.....	3.32	2.99	1.42	7.11	1.94	2.41	2.92	4.51	1.41	.....
Van Buren	1.83	1.01	2.68	2.90	0.86	2.02	3.15	5.32	3.55	4.98	2.36	1.08	31.74
Winslow	1.57	2.68	4.32	3.50	1.12	1.62	3.02	3.29	2.24	2.68	5.06	1.86	32.96
Woodland	2.19	2.85	3.57	2.55	1.53	0.89	0.97	2.95	2.78	2.48	5.31	1.56	29.63
Wytopitlock	1.85	2.08	2.48	3.76	0.25	2.38	1.47	5.86	2.84	2.25	5.01	1.14	31.37
Maryland.													
Aberdeen	2.07	2.51	2.10	2.04	3.55	4.28	4.38	4.30	3.57	1.10	3.29	1.73	34.92
Annapolis	2.05	3.36	.....	2.45	5.40	.....	.....	1.38	1.32	0.71	4.45	2.15	.....
Baltimore (Weather Bureau)	2.05	2.85	2.60	2.59	5.99	1.97	4.93	3.49	3.19	1.61	4.37	2.08	37.72
Baltimore (Lake Montebello)	2.13	3.08	2.44	2.91	5.37	.....	5.63	4.16	2.97	1.27	4.99	2.19	.....
Bell	2.56	2.93	2.15	2.63	7.95	1.94	8.08	1.59	2.22	0.94	6.59	2.13	41.71
Boyds	.....	.....	.....	2.41	5.81	3.18	3.28	3.07	1.22	0.95	4.00	2.15	.....
Cambridge	2.76	3.54	3.30	3.51	4.30	0.77	2.41	2.03	2.02	1.20	3.52	.....	.....
Cecilton	2.12	2.84	1.83	3.51	3.57	2.27	7.42	4.34	3.18	0.91	4.16	1.79	37.94
Cheltenham	2.52	3.10	2.47	4.27	5.72	2.20	2.71	2.84	1.73	1.10	5.91	2.15	36.72
Chesapeake City	2.13	2.84	1.98	3.14	3.04	2.33	4.00	4.84	5.76	0.68	4.05	1.72	36.51
Chewsville	1.45	2.08	1.92	2.40	5.31	1.99	3.18	6.12	6.62	0.87	2.57	2.44	36.95
Clear Springs	1.05	2.21	1.98	3.26	6.16	3.37	4.32	5.79	3.55	1.12	3.98	.....	.....
Coleman	2.43	2.77	1.79	3.07	3.91	4.98	5.34	3.07	3.82	0.95	4.05	1.93	38.11
College Park	2.17	2.57	2.64	2.94	6.29	2.21	3.68	1.60	1.70	1.15	5.27	1.90	34.12
Crisfield	3.75	3.73	3.45	3.95	4.21	1.54	4.66	4.32	0.88	0.95	3.15	3.42	38.01
Cumberland	1.66	2.05	1.87	2.50	4.56	3.07	2.32	3.35	6.44	1.07	3.66	2.93	36.48
Darlington	2.08	2.47	2.11	2.63	3.32	3.83	4.48	4.85	2.40	1.10	4.46	.....	.....
Denton	.....	3.11	3.71	4.13	4.22	0.97	1.36	2.47	5.55	1.10	3.96	2.14	.....
Easton	2.61	3.00	3.53	3.43	3.56	1.23	4.07	1.34	1.59	1.09	3.83	1.85	31.13
Emmitsburg	1.54	2.60	.....	3.92	8.11	2.22	3.52	4.31	4.81	1.05	5.19	2.72	.....
Fallston	2.06	2.61	1.80	3.65	4.93	2.11	4.09	5.38	3.44	1.16	5.18	2.14	38.55
Ferry Landing	2.22	3.87	2.34	4.02	5.80	0.10	8.80	3.21	2.43	0.96	5.29	2.10	41.14
Frederick	1.50	2.38	2.16	3.00	6.96	2.48	1.06	5.53	2.21	0.62	3.69	2.58	34.17
Freeland	2.25	.....	1.97	3.33	4.48	3.49	6.10	3.67	3.72	1.15	5.55	3.28	.....
Friendsville	3.20	4.11	3.38	1.85	4.97	2.48	.....	3.11	7.63	1.26	3.93	3.79	.....
Frostburg	2.10	3.32	2.23	2.58	4.35	4.17	3.63	4.96	5.29	2.15	4.51	3.19	42.48
Grantsville	3.01	.....	3.19	3.22	3.69	6.49	3.58	5.79	7.42	0.93	4.99	3.86	.....
Great Falls	1.99	2.38	1.97	2.87	6.95	3.31	4.81	2.39	2.27	0.64	4.33	2.07	35.92
Hancock	.....	2.02	2.65	3.12	5.84	5.76	4.59	4.74	5.47	0.99	4.46	4.41	.....
Keedysville	1.55	2.09	1.46	2.69	6.07	1.28	2.53	6.11	4.71	0.51	3.19	2.27	34.46
La Plata	3.50	2.81	2.01	3.86	6.30	2.09	4.92	1.39	4.04	1.40	4.76	2.00	39.08
Laurel	.....	.....	.....	.....	7.02	1.46	3.29	3.05	1.40	0.89	4.66	1.80	.....
Oakland	4.15	2.94	2.97	3.21	7.56	4.19	3.95	6.07	5.72	2.62	5.44	5.30	54.12
Princess Anne	2.42	3.56	2.85	3.82	4.38	0.80	3.42	3.60	1.32	1.28	2.78	3.16	33.39
Public Landing	2.69	3.82	1.56	2.85	3.46	0.12	2.97	2.33	1.43	0.71	2.92	4.01	28.82
Riderwood	2.06	2.46	1.89	3.58	6.11	2.62	4.76	4.13	2.57	1.04	5.77	2.14	39.12

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Maryland—Continued.													
Rock Hall	.....	.....	.....	.....	.....	.....	.....	2.48	3.23	0.85	4.10	2.26	.....
Salisbury	.....	3.40	.....	4.02	4.14	1.15	3.92	2.62	0.26	1.19	4.07	2.50	.....
Solomons	2.77	2.89	2.05	3.34	3.39	0.55	6.90	3.91	1.80	1.55	3.22	2.51	34.88
State Sanatorium	1.86	2.20	.....	.....	8.44	3.20	4.00	6.40	5.60	.....	4.06	.....	.....
Sudlersville	2.25	2.94	2.49	3.95	3.73	1.18	3.22	4.19	5.24	0.73	4.03	2.02	35.97
Takoma	2.11	2.30	2.51	3.31	5.20	1.35	4.32	1.45	2.00	0.97	4.39	2.10	32.01
Western Port	2.44	2.64	2.03	1.89	6.24	3.31	5.87	4.65	6.00	1.75	4.76	4.05	45.63
Westminster	1.69	2.72	2.22	2.54	8.53	3.40	3.21	5.17	3.55	0.67	4.38	2.62	40.70
Woodstock	1.57	2.66	2.32	3.51	6.49	1.27	6.29	3.56	2.58	0.74	5.29	2.05	38.33
Massachusetts.													
Amherst	2.00	2.38	3.57	6.47	4.56	3.87	6.00	2.35	1.84	1.08	6.20	1.90	42.22
Ashland	2.90	3.95	2.78	5.23	2.70	3.38	6.14	1.32	1.83	1.04	7.53	2.50	41.30
Bakers Bridge	2.24	3.58	1.62	3.73	4.67	3.67	9.60	2.06	1.67	1.36	3.89	1.19	39.28
Bedford	2.30	2.59	2.19	3.57	3.07	3.50	8.38	1.70	2.25	1.22	7.13	2.29	40.19
Blue Hill	3.69	3.95	2.83	5.10	5.10	4.33	10.42	2.44	1.80	1.24	7.80	2.96	51.66
Boston	2.24	2.64	1.92	4.62	3.64	3.58	11.69	1.63	1.22	1.24	6.19	2.35	42.96
Chestnut Hill	2.78	3.81	2.74	6.50	2.41	4.67	8.86	1.48	1.73	1.09	6.72	2.65	45.44
Clinton	2.37	4.25	3.56	5.20	2.53	3.83	7.17	1.56	1.73	1.70	8.97	2.78	45.65
Concord	2.30	3.51	1.85	3.52	4.50	3.89	9.67	2.03	2.10	1.25	7.87	2.33	44.82
Fall River	2.37	2.52	2.97	3.63	3.38	2.58	8.38	2.43	1.50	1.20	7.68	3.02	41.66
Fitchburg	2.01	3.23	2.38	5.51	3.83	2.86	7.39	2.17	2.69	2.25	5.28	2.17	41.77
Framingham	2.80	4.28	2.55	5.42	3.66	3.45	6.72	1.19	2.08	1.07	7.85	2.47	43.54
Haverhill	1.38	2.84	2.07	4.27	2.31	2.19	5.92	1.46	2.07	2.45	6.56	2.07	35.59
Hingham	3.36	2.79	2.58	4.57	5.90	4.21	10.50	2.27	1.24	1.06	6.61	2.99	48.08
Holyoke	.....	.....	2.84	5.47	2.98	.....	.....	.....	2.03	1.39	6.90	.....	.....
Hyannis	2.31	2.88	3.90	3.98	6.46	1.79	8.79	3.23	2.06	2.67	7.83	2.26	48.16
Jefferson	2.56	4.38	3.29	7.20	3.94	4.02	5.39	2.17	2.37	2.20	6.97	3.19	47.68
Lake Cochituate	2.75	3.58	2.87	5.85	3.31	4.13	7.92	1.27	2.24	1.13	7.38	2.51	44.94
Lawrence	1.89	2.51	2.51	4.42	2.69	2.62	5.92	1.43	2.34	2.35	7.14	2.73	38.55
Lee	.....	.....	.....	.....	.....	.....	.....	2.09	2.64	1.94	5.14	1.98	.....
Leominster	2.22	2.71	2.38	5.55	4.37	4.19	6.72	1.94	3.06	1.83	7.22	2.43	44.62
Lowell	2.14	3.31	2.39	5.94	1.93	2.85	6.40	2.05	2.31	2.30	8.82	2.35	42.79
Nantucket	2.23	2.89	2.37	2.49	4.43	2.79	3.41	1.33	1.22	2.13	5.25	2.45	32.99
New Bedford	1.54	1.87	2.97	3.65	2.80	1.37	8.19	2.67	0.99	2.08	7.05	1.69	36.87
Plymouth	2.84	3.29	3.56	5.96	4.84	.....	.....	.....	1.19	1.59	7.32	2.89	.....
Princeton	2.84	4.17	2.58	7.17	2.92	4.70	6.26	2.05	3.21	2.32	6.27	2.82	47.31
Provincetown	2.05	2.75	2.15	3.75	5.25	1.86	4.75	3.04	0.65	1.70	6.13	2.50	36.58
Rockport	2.16	2.27	2.43	5.34	2.68	2.78	9.98	2.13	2.63	1.24	7.84	2.43	43.91
Rutland	2.45	2.55	3.49	7.74	3.07	3.32	4.42	2.30	3.38	2.40	.....	2.40	.....
Somerset	2.43	2.25	2.92	5.47	3.20	3.14	6.73	2.60	0.95	1.47	8.26	2.69	42.11
Spot Pond	2.47	3.96	2.87	5.36	2.11	4.14	9.07	1.27	2.70	2.15	6.86	2.72	45.68
Springfield	3.56	2.80	3.04	2.88	2.25	.....	7.69	.....	.....	1.62	7.04	.....	.....
Sterling	2.67	3.93	2.68	6.55	2.64	3.34	6.15	1.43	2.15	1.75	7.32	2.50	43.11
Taunton	3.40	1.79	3.40	5.33	4.55	4.73	9.37	2.17	1.62	0.91	8.75	3.13	49.15
Turners Falls	1.89	2.43	4.77	2.64	6.49	2.12	4.97	2.40	4.41	1.69	7.27	2.10	43.18
Westboro	2.43	4.80	2.21	2.80	6.29	0.41	11.75	1.40	2.15	1.31	9.64	2.32	47.51
Williamstown	1.13	4.22	4.17	2.86	2.41	2.94	6.51	3.59	2.41	1.58	4.58	1.51	37.91
Winchendon	1.99	2.65	3.13	6.85	3.61	2.83	5.47	3.06	2.95	1.95	7.07	2.87	44.43
Worcester	1.02	1.86	2.23	4.44	3.40	1.82	4.35	1.87	1.99	2.25	5.32	2.38	32.93
Michigan.													
Adrian	0.86	1.00	5.02	4.04	3.75	5.32	1.97	3.18	6.37	2.63	2.84	1.54	38.52
Albion	0.22	0.60	3.67	2.84	1.37	2.97	2.51	3.99	4.10	3.56	4.11	2.95	32.89
Allegan	0.86	1.15	2.99	5.05	3.77	4.71	1.28	4.93	4.54	4.34	3.95	5.42	42.99
Alma (No. 1)	0.63	1.22	5.03	4.40	0.54	4.92	2.39	4.95	4.00	3.18	3.05	3.61	37.92
Alma (No. 2)	.....	.....	4.38	4.03	0.24	.....	.....	.....	.....	.....	.....	.....	.....
Alpena	0.82	0.86	4.28	2.52	2.48	1.80	4.30	4.15	3.87	2.48	2.22	3.16	32.94
Alpena (near)	0.74	0.91	4.75	2.95	2.66	2.37	5.79	3.85	5.08	2.59	2.46	3.48	37.63
Ann Arbor	0.45	1.48	3.93	3.90	2.14	3.16	2.17	4.54	4.36	1.95	3.33	1.63	33.01
Ann Arbor (near)	0.29	0.98	4.02	4.30	1.81	3.52	1.66	4.61	4.57	1.89	4.29	1.48	33.42
Arbela	1.02	1.21	3.86	5.01	2.36	.....	.....	.....	.....	.....	.....	2.85	.....
Armada	0.37	1.32	2.60	3.60	1.50	1.67	2.75	6.14	2.51	.....	2.43	.....	.....
Battle Creek (No. 1)	0.75	0.87	4.20	5.24	3.27	4.59	1.66	5.38	3.54	2.74	3.30	2.98	38.52
Battle Creek (No. 2)	.....	.....	.....	.....	2.17	3.70	1.11	4.66	4.34	3.07	4.44	.....	.....
Bay City	0.31	0.61	3.26	3.68	1.68	2.38	1.14	6.98	2.29	2.46	2.41	2.69	29.89
Benzonia	0.97	0.97	3.87	2.60	1.94	0.12	2.56	5.38	3.55	5.03	2.17	4.32	33.48
Bergland	1.29	1.27	3.40	3.01	3.66	1.54	5.50	2.93	3.51	4.13	1.61	2.74	34.59
Big Rapids	0.58	0.50	3.15	4.29	0.42	2.16	3.80	3.78	3.27	2.92	2.45	2.82	30.14
Bloomingdale	0.65	0.92	4.45	4.51	2.43	5.40	0.46	3.59	5.45	3.89	3.77	4.66	40.18
Bridgeport	.....	.....	2.80	4.23	2.08	.....	.....	.....	.....	.....	.....	.....	.....
Cadillac	0.40	0.57	2.24	3.86	0.30	0.30	2.67	3.38	4.87	1.97	1.35	3.17	25.98
Calumet	1.52	1.52	2.15	4.51	2.37	0.85	3.73	2.29	2.65	2.01	1.35	2.00	26.95
Cassopolis	0.98	0.91	4.47	3.79	3.25	3.63	1.42	5.38	4.71	5.40	3.44	3.05	40.43
Ceresco	0.38	0.75	4.08	5.09	2.25	3.95	1.63	4.02	3.79	2.99	3.67	3.09	35.69
Charlevoix	.....	.....	.....	1.32	2.21	1.41	3.15	5.27	3.72	5.33	2.23	2.59	.....
Charlotte	0.31	1.00	2.79	3.30	1.30	1.49	0.95	4.12	2.59	2.15	4.02	2.28	26.30
Chatham	0.96	0.74	.....	.....	.....	2.95	.....	.....	.....	.....	.....	.....	.....
Cheboygan	0.96	0.75	5.17	1.65	1.34	1.25	3.22	3.07	4.40	2.44	2.76	2.50	29.51
Chesaning	.....	.....	3.36	4.42	1.30	.....	.....	.....	.....	.....	.....	.....	.....
Coldwater	0.50	0.38	3.83	4.00	4.82	4.44	1.26	5.86	3.22	4.10	3.40	3.03	38.84
Cooke Site	0.50	0.75	5.25	4.31	3.65	1.80	0.73	3.40	2.26	2.20	3.05	2.55	30.45
Croswell	.....	0.75	2.20	3.85	1.28	2.17	7.50	2.96	2.98	.....	.....	2.77	.....
Croton	0.93	0.75	4.29	3.91	0.59	2.45	4.22	4.35	4.12	4.23	2.45	3.09	35.38
Deer Park (near)	2.50	1.10	2.20	1.45	2.78	0.99	1.85	3.20	6.07	4.10	[2.50]	8.18	36.92
Detroit	0.28	1.54	3.36	3.18	1.85	3.94	2.49	3.43	4.64	2.12	2.59	2.04	31.46
Dimondale	.....	.....	3.30	4.04	1.37	.....	.....	.....	.....	.....	.....	.....	.....
Durand	0.25	1.53	2.25	2.79	2.28	3.47	1.37	5.00	2.25	3.56	2.32	3.68	30.75
Eagle Harbor	1.14	1.20	2.41	3.68	1.37	0.68	5.12	2.84	3.13	1.21	1.83	1.16	25.77
East Tawas	0.50	1.35	3.89	3.82	2.52	2.16	2.16	4.28	3.06	2.40	2.02	2.95	31.11
Eaton Rapids	.....	.....	3.80	4.36	0.91	.....	.....	.....	.....	.....	.....	.....	.....
Edmore	.....	.....	.....	6.14	0.30	4.80	1.41	.....	.....	.....	.....	.....	.....
Eloise	0.11	0.62	3.12	3.75	1.40	2.50	1.70	3.50	2.71	0.90	2.41	1.20	23.92
Escanba	0.89	1.20	2.91	3.41	1.99	1.13	1.91	4.97	4.58	1.51	2.38	2.54	29.42

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Michigan—Continued.													
Ewen	1.34	2.12	3.64	3.34	2.65	1.13	4.91	3.88	2.52	1.83	2.06	4.02	33.44
Fife Lake (near)	1.42	0.75	4.28	3.46	0.96	0.70	2.98	6.46	4.59	2.76	1.62	2.75	32.73
Five Channels	0.80	0.85	3.97	3.26	3.48	1.36	3.19	2.64	3.13	2.52	2.95	2.22	30.37
Flint (No. 1)	0.46	1.32	3.80	3.31	1.72	3.24	2.99	5.96	3.45	4.72	3.39	3.23	37.59
Flint (No. 2)			3.83	4.68	0.90								
Frankfort	0.80	0.82	2.15	3.56	0.81	0.05	1.17	2.71	3.58	2.24	2.01	2.92	22.82
Ganges	0.35	0.45	4.23	4.12	1.63	1.81	0.61	5.55	4.75	5.48	3.83	4.32	37.13
Gaylord					2.14	0.23	2.30	3.41	2.51	0.25	0.77		
Grand Haven	0.69	1.03	4.85	4.34	1.25	1.99	0.92	5.80	4.07	4.99	2.96	3.56	36.45
Grand Ledge (No. 1)	0.25	1.04	2.64	2.29	1.64	1.34	0.45	2.75	1.58	2.34	4.20	2.37	22.89
Grand Ledge (No. 2)			2.64	3.50	2.09								
Grand Marais	1.80	0.90	2.60	0.82	0.84	2.21	1.32	1.09	3.39	1.42	1.50	1.62	19.51
Grand Rapids (Weather Bureau)	0.59	1.13	4.77	4.39	1.23	3.62	2.38	6.15	4.33	3.61	3.64	4.14	39.98
Grand Rapids (Cons. Power)				3.53	1.39			3.42	6.12	3.42	2.07	3.79	
Grayling	0.28	0.49	1.29	4.92	0.97	1.91	3.45	3.86	2.54	2.09	1.25	1.80	24.85
Greenville	0.56	0.99	5.44	5.11	0.58	7.21	0.53	5.96	4.67	4.45	3.43	3.30	42.23
Hamburg		0.59	3.91		1.14	5.49	2.35	6.73	3.91	2.39	4.04		
Harbor Beach			2.20	2.44	1.29	1.36	2.75	2.42	2.89	3.32		2.09	
Harrison	0.60	0.80		2.48		1.71		3.22	2.85	1.60	1.30	1.86	
Harrisville	0.43	1.05	4.39	3.25	1.91	3.91	2.26	2.58	3.54	2.34	3.66	3.07	32.39
Hart	0.84	0.61	2.97	3.35	0.48	1.42	2.28	3.30	4.45	5.21	1.75	4.11	30.77
Hastings	1.15	0.90		4.25	2.35	2.46	0.58	2.17	2.18	1.50	1.86		
Highland	1.34	1.53	3.09	3.44									
Hillsdale	1.03	1.06	4.29	4.98	2.69	4.21	3.92	5.08	1.98	3.90	4.19	2.30	39.63
Holland	0.79	0.77	4.36	4.15	2.04	1.47	1.02	5.23	5.08	5.20	2.98	3.36	36.45
Houghton	2.93	3.20	2.82	4.26	2.01	0.88	4.09	1.51	1.97	1.19	1.17	1.88	27.91
Houghton Lake (near)	1.43	0.89	4.40	4.77	0.67	0.87	3.57	4.33	4.89	2.67	2.41	3.23	34.13
Howard City	0.44		5.59		0.27	4.89	1.77	5.59	3.33	3.53		1.73	
Howell	0.67	0.44	3.02	3.36	0.42	3.66	2.72	8.09	2.42	2.12	5.38	1.56	33.86
Humboldt	1.52	0.90	2.37	4.20	0.85	0.22	5.18	2.83	4.67	1.89	1.05	1.50	27.18
Ionia		1.23	3.84	5.24	0.54								
Iron Mountain	0.50	0.90	2.15	3.47	3.77	1.92	2.95	3.39	3.27	1.25	0.90	1.50	25.97
Iron River	0.60	0.40	2.45	4.74	1.28	1.70	3.20	2.84	3.45	0.88	0.30	2.20	24.04
Ironwood	0.89	1.94	1.79	2.16	1.96	2.41	8.32	2.13	3.34	4.06	0.94	4.33	34.27
Ishpeming	0.83	0.70	3.34	5.22	1.34	2.30	4.17	2.22	5.64	1.86	1.56	1.65	30.83
Ivan	1.08	1.09	4.22	3.76	0.56	0.99	3.71	5.35	4.96	2.07	2.63	[3.01]	33.43
Jackson (No. 1)	0.45	0.96	4.07	4.05	2.47	2.75	2.32	5.09	4.98	2.70	3.30	2.09	35.23
Jackson (No. 2)				3.15	2.08	2.09	2.71	4.82	5.13	2.65	3.41	2.65	
Johannesburg	0.61	2.09	3.56	2.60	4.10	4.02	5.91	5.72	4.12	4.01	1.71	2.97	41.42
Kalamazoo (No. 1)	1.48	1.14	4.69	4.23	4.19	4.14	0.34	3.82	2.43	4.17	3.69	4.49	38.81
Kalamazoo (No. 2)	0.75	0.78	4.14	4.36	3.79	4.56	0.56	3.46	3.87	3.90	2.27	4.12	36.56
Kent City						1.46	0.60						
Lansing	0.41	1.25	3.34	3.80	1.33	3.24	2.61	5.18	2.64	2.85	4.06	3.54	34.25
Lapeer	0.98	1.60	3.67	3.19	2.20	3.70	2.34	3.66	3.77	3.38	3.63	2.73	34.85
Loud	0.70	0.65	4.85	4.02	4.11	1.71	2.47	3.34	4.32	2.50	2.57	2.54	33.78
Lowell (No. 1)	1.03	0.95	4.14	3.76	1.01	2.68	1.12	5.51	5.03	4.12	1.95	4.56	35.86
Lowell (No. 2)			3.85	4.19	1.05								
Ludington	0.42	1.08	2.88	3.38	1.82	0.59	2.96	4.35	5.03	3.75	1.52	3.55	31.33
Luther	0.90	1.33	4.52	4.05	0.63	0.88	2.39	6.61	4.68	2.92	1.75	3.55	34.21
Mackinac Island	2.45	0.75	5.00	1.51	2.33	1.41	1.40	6.20	4.16	4.04	2.20	3.13	34.58
Mackinaw	1.80	0.66	4.40	1.75	1.49	1.23	1.62	4.22	3.96	3.45	2.85	2.73	30.16
Mancelona	0.66	1.35			2.21	0.11	3.16		2.92		1.58	2.24	
Manistee				3.23	0.80	0.15	1.67	5.73	4.87	2.32	1.30	3.80	
Maple Ridge	1.00	1.00	6.10	5.00	3.55	1.44	3.53	2.09	3.17	2.69	1.80	1.30	32.67
Marquette	2.28	1.29	2.95	4.10	1.67	1.52	4.39	3.48	4.30	1.29	1.97	2.04	31.28
Menominee	0.45	1.25	3.33	3.87	2.45	0.50	2.76	4.91	3.54	1.81	1.66	2.76	29.29
Midland (No. 1)	0.40	0.84	3.60	2.86	2.67	1.66	2.33	4.96	2.45	2.44	2.22	3.16	29.59
Midland (No. 2)			3.78	2.78	2.49								
Mio	0.48	1.05	4.07	3.26	2.53	2.08	5.43	3.49	3.20	2.92	2.54	3.06	34.11
Monroe	0.22	0.43	5.09	3.89	3.19	2.75	3.57	3.66	4.08	1.76	2.23	1.55	32.42
Morenci	2.14	1.07	4.72	4.83	3.53	3.75	2.05	5.54	4.16	3.41	2.96	2.04	40.20
Mount Clemens			2.46	2.09	1.50	3.47	3.35	4.39	2.95	2.75	3.74	1.71	
Mount Pleasant (No. 1)			4.98	5.30	0.17	0.21	0.20	2.38	2.31	0.18			
Mount Pleasant (No. 2)			4.98	5.30	0.17								
Munising	1.59	1.13	4.37	3.07	3.58	1.15	3.79	4.93	3.53	3.20	3.17	1.51	32.02
Muskegon	0.40	0.71	4.95	3.44	5.27	8.18	1.20	6.12	1.70	5.88	2.86	2.44	43.15
Newberry	1.31	0.71	4.08	2.52	2.41	3.36	3.53	2.92	4.67	2.34	2.00	2.67	32.52
Norways	1.40	0.60	5.09	4.48	2.91	0.47	2.22	3.90	4.81	3.89	2.52	3.75	36.04
Old Mission	0.64	0.84	3.66	1.91	1.37	0.42	2.23	3.42	3.62	4.05	1.67	1.75	25.58
Omer	1.39	0.75	5.28	3.17	1.22	0.85	1.51	5.25	3.10	2.65	2.70	3.45	31.32
Onaway (near)	0.73	0.80	4.00	1.87	1.12	2.24	4.69	4.04	3.64	2.48	1.64	2.84	30.09
Otsego	0.47	1.61	5.18	4.35	2.75	2.88	0.75	5.46	5.06	3.36	3.34	5.08	40.29
Owosso (No. 1)			4.43	5.08	0.84		1.66	7.67	5.08	4.25	3.03	2.71	
Owosso (No. 2)			4.43	5.08	0.84								
Paines				4.38	1.88								
Petoskey	0.45	1.30			0.90	1.83	3.13	4.44	6.27	2.80	2.14	2.55	
Plainwell	1.30	1.04	5.38	4.59	3.19	4.11	1.57	4.46	4.98	2.95	3.66	5.55	42.78
Plymouth			3.63	3.78	1.61	3.23	1.85	4.98	4.39	2.29			
Pontiac	0.22	1.67	3.63	2.92	1.47	2.44	1.96	4.03	3.42	2.39	4.00	2.04	30.19
Port Austin		0.35						1.33	7.50	5.08	3.50		
Port Huron	0.35	1.20	3.15	4.06	1.72	1.01	2.28	3.34	2.03	4.05	2.86	1.60	27.65
Portland		1.10	3.18	4.52	1.92								
Reed City	0.93	0.44	3.93	4.07	0.21	0.97	3.72	4.02					
Rogers	1.23	0.51	4.81	5.59	0.73	4.42	3.77	3.80	4.10	2.80	2.92	3.00	37.58
Roscommon	1.21	0.67	4.07	3.97	0.27	0.53	2.80	5.40	5.53	1.45	2.74	2.81	31.45
Sack Bay	1.28	1.16	4.25	2.48	3.06	1.30	2.18	3.96	4.41	1.97	2.84	3.13	32.02
Saginaw (Weather Bureau)	0.38	1.22	2.38	3.67	2.17	3.64	1.10	3.63	2.19	3.06	2.36	2.32	28.07
Saginaw (No. 2)	0.30				1.83	2.35	0.77	4.21	2.25		2.09	2.05	
St. Ignace	0.22	0.54			0.30	0.22	0.39	0.79	0.46	0.51	0.99	0.83	
St. James	1.21	0.65	3.29	1.70	0.76	2.95	0.91	2.43	3.03	3.61	2.99	3.67	27.20
St. Joseph			2.82	4.10	2.85	1.67	0.80	4.60	7.13	5.23	2.90	3.64	
Sandusky	0.12						4.85	1.10	1.80	3.39	2.09	1.84	
Saranac	0.75	1.05	3.67	5.96	0.53	4.56	0.69	6.53	4.65	3.38	4.19	3.87	39.83
Sault Ste. Marie	1.35	0.84	4.07	2.64	2.21	0.56	3.10	3.48	4.28	3.47	2.21	3.43	31.64
Scottville	0.24	0.75			0.13	0.12	1.11	2.21	4.49	1.60	1.12		
Sidnaw	0.61	0.43	1.57	1.47	1.68	1.77	4.21	3.43	3.61	1.93	1.26	1.70	23.67

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Michigan—Continued.													
Silver Creek	0.69	0.92	3.98	3.69	4.31	2.80	1.82	.....	3.61	1.98	.....	.....	.....
South Haven	0.40	0.90	3.58	4.89	1.79	2.10	0.47	3.54	4.10	5.66	4.38	3.81	35.62
Stronach	1.21	0.80	2.43	3.56	0.85	0.92	3.66	6.81	3.61	3.34	1.66	3.18	32.03
Traverse City	0.16	0.90	3.63	3.12	1.03	0.10	1.25	2.91	5.98	2.38	0.88	1.02	23.36
Trowbridge	0.62	1.27	4.11	4.95	3.47	4.24	1.43	4.18	4.93	4.29	3.75	6.10	43.34
Vassar	.....	.....	.....	5.55	1.40	.....	.....	.....	.....	.....	.....	.....	.....
Victoria	0.72	0.95	3.17	3.52	2.15	2.48	3.55	2.10	1.87	1.30	1.67	4.06	27.54
Wasepi	1.05	0.78	4.64	4.27	2.73	3.10	1.12	4.84	3.38	4.37	3.77	2.99	37.04
Webber Dam	0.42	0.70	3.47	4.14	1.08	3.40	0.96	3.13	2.92	3.05	2.37	3.26	29.40
Wellston	0.32	0.61	2.40	2.99	0.98	0.61	3.23	4.66	3.71	4.02	1.20	3.82	28.55
West Branch (near)	0.82	1.09	4.47	5.13	0.30	3.94	2.49	5.20	3.68	2.72	2.24	4.64	36.72
Williamston	.....	.....	5.00	5.55	0.29	.....	.....	.....	.....	.....	.....	.....	.....
Whitefish Point	1.30	1.75	3.69	1.50	4.10	0.51	3.61	2.43	0.12	2.52	3.05	2.69	33.87
Ypsilanti	0.13	0.81	3.40	4.29	2.45	2.89	4.41	4.09	4.60	2.04	2.43	1.62	33.16
Minnesota.													
Ada	1.17	0.94	1.75	1.65	3.08	4.95	2.58	2.38	2.31	1.03	0.08	1.87	23.79
Albert Lea	0.38	0.40	1.25	1.25	4.80	2.37	0.35	2.95	4.16	0.45	0.50	0.40	19.26
Alexandria	0.40	0.44	0.81	1.70	2.86	3.02	5.91	1.41	6.45	0.91	0.26	T.	24.17
Angus	0.25	0.64	0.48	1.01	2.04	2.59	6.27	1.78	2.55	0.54	0.48	0.36	18.99
Argyle	0.51	1.15	0.57	1.15	2.23	2.77	4.57	2.20	2.69	0.71	0.33	0.38	19.26
Artichoke Lake	0.12	0.15	1.67	1.57	2.01	2.35	2.03	1.55	5.37	0.32	0.65	0.02	17.81
Baudette	0.97	0.70	0.60	1.60	2.01	1.13	4.75	1.40	3.25	0.66	0.92	0.53	18.52
Beardsley	0.10	0.10	1.19	2.40	1.71	2.41	0.90	1.40	6.15	0.40	0.27	.....	.....
Bemidji	.....	.....	.....	.....	.....	.....	.....	1.61	2.54	0.29	0.17	0.38	.....
Bird Island	0.25	0.26	2.44	2.12	1.50	1.15	3.38	3.69	4.20	0.39	1.30	0.11	20.79
Brainerd	0.17	2.53	2.53	1.92	4.08	2.07	3.88	0.97	3.16	0.72	0.59	0.64	23.26
Campbell	0.43	0.53	1.54	2.01	5.15	1.50	6.43	2.38	6.69	1.21	0.74	0.50	29.11
Canby	0.41	0.26	2.43	0.96	1.49	5.93	2.00	1.98	8.32	0.34	0.48	0.30	24.90
Cass Lake	0.40	0.95	.....	2.46	4.45	4.94	2.44	1.53	1.94	0.43	0.16	1.35	.....
Centerville	0.18	0.18	1.72	1.81	2.49	3.04	5.87	1.77	4.36	0.56	1.08	0.11	23.17
Chatfield	0.44	0.52	1.01	3.01	7.94	0.60	2.51	1.50	6.46	0.95	1.14	0.73	26.81
Cloquet	0.57	0.59	1.25	1.80	3.50	4.08	3.62	1.91	2.58	0.88	0.94	1.90	23.62
Collegeville	0.18	0.29	1.42	1.99	1.76	2.85	2.86	1.70	5.11	0.72	1.00	0.21	20.09
Crookston	0.55	1.15	1.30	.....	2.23	2.69	3.02	2.29	2.25	0.89	0.45	0.90	.....
Crookston (Experiment Farm)	0.14	0.04	0.33	0.86	1.77	2.60	.....	.....	.....	0.51	.....	.....	.....
Detroit	0.65	0.64	1.72	1.97	3.07	1.29	2.46	4.14	3.66	0.90	0.30	0.50	21.30
Duluth	0.18	0.45	1.76	2.10	2.77	4.38	5.41	2.84	3.09	0.70	0.70	0.69	25.07
Fairmont	0.64	0.74	1.39	1.52	8.18	4.16	4.74	3.93	5.86	1.09	0.61	0.23	33.09
Faribault	0.00	0.45	0.66	0.18	4.58	6.91	2.18	1.84	6.83	0.64	0.70	0.18	25.15
Farmington	1.05	0.60	1.50	1.75	3.95	2.34	2.98	1.88	3.70	0.40	1.75	0.45	22.35
Fergus Falls	0.74	0.97	2.13	2.09	5.50	1.18	4.33	3.23	5.74	1.04	0.69	0.57	28.21
Fort Ripley	0.15	0.23	0.44	2.36	4.15	1.90	4.15	1.23	3.80	0.75	0.47	0.12	19.75
Fosston	T.	0.20	1.00	1.07	3.53	8.12	3.03	2.62	3.75	0.66	0.06	0.81	24.85
Glencoe	T.	0.75	2.02	0.86	1.99	.....	.....	.....	.....	.....	.....	.....	.....
Golden Valley	0.60	0.72	0.75	1.55	.....	.....	5.77	2.47	3.97	0.59	0.63	0.71	.....
Gonvick (near)	.....	.....	.....	.....	.....	.....	3.76	1.64	3.41	0.35	0.27	.....	.....
Grand Marais	1.00	.....	.....	.....	.....	.....	.....	1.76	5.56	0.98	0.90	0.37	.....
Grand Meadow	0.26	0.84	1.71	3.50	8.01	1.72	3.20	2.85	5.18	1.76	1.15	0.37	30.55
Grand Rapids	0.54	0.15	0.87	2.01	4.92	5.25	3.56	1.81	3.55	0.38	0.61	1.31	24.96
Grygla (near)	.....	.....	.....	.....	.....	.....	5.70	.....	2.59	0.79	0.73	1.27	.....
Gull Lake Dam	0.16	0.39	2.24	2.46	5.34	1.53	2.71	1.92	3.15	0.75	0.42	0.54	21.61
Hallock	0.38	1.03	0.80	1.72	1.84	2.85	5.01	3.33	3.67	1.08	0.52	0.10	22.33
Hinckley	0.22	0.27	0.34	1.13	1.95	1.29	2.84	3.56	3.15	0.73	.....	0.45	.....
Hutchinson	0.25	0.62	2.14	2.00	2.95	.....	.....	.....	.....	.....	.....	.....	.....
International Falls	1.60	0.90	1.40	0.85	1.86	0.75	5.83	1.54	4.04	0.55	0.80	0.50	20.62
Itasca State Park	0.42	0.35	0.82	2.87	4.21	5.23	2.51	3.16	3.06	0.31	0.55	0.81	24.30
Leech Lake Dam	0.47	0.65	1.59	1.83	4.81	3.94	3.51	2.31	3.02	0.30	0.35	1.11	23.89
Little Falls	0.75	1.35	2.14	1.75	2.28	2.06	4.33	2.20	3.97	.....	.....	1.10	.....
Luverne	0.17	0.21	0.63	2.34	4.82	1.74	2.19	4.42	3.10	.....	.....	.....	.....
Lynd	0.44	0.15	2.43	1.76	1.83	0.86	2.82	2.25	5.16	0.06	1.41	0.26	19.43
Mankato	0.71	0.64	1.07	1.40	3.59	2.65	2.96	3.37	6.85	0.55	0.69	.....	.....
Mapleplain	0.57	0.81	2.41	2.20	3.70	4.50	4.83	1.96	4.13	0.74	2.21	0.41	28.47
Meadowlands	0.26	0.57	2.13	1.52	4.53	2.58	4.12	2.21	1.75	0.75	0.37	0.94	21.73
Milaca	0.12	0.28	1.46	2.32	2.88	1.82	3.52	2.53	4.32	0.77	1.06	T.	21.08
Milan	0.20	0.35	1.24	1.33	1.36	1.10	1.10	0.92	5.24	0.31	1.87	0.10	15.12
Minneapolis (Weather Bureau)	0.44	0.51	2.21	2.04	3.49	3.81	3.16	2.03	3.85	0.37	1.58	0.26	23.75
Minneapolis (No. 1)	0.52	0.54	2.12	2.00	3.83	4.07	3.01	2.30	4.63	0.43	1.87	0.28	25.60
Montevideo	0.34	0.28	1.96	2.01	1.44	2.39	2.53	0.87	4.36	0.29	1.27	0.22	17.96
Moorhead	1.21	0.63	1.61	1.79	2.56	1.40	3.08	3.94	4.35	0.84	0.52	0.35	22.28
Mora	0.30	0.59	2.39	1.45	2.23	1.58	4.12	2.67	4.74	0.58	1.47	0.45	22.57
Morris	0.14	0.06	1.71	1.80	2.40	2.83	3.58	2.51	7.49	0.27	1.26	0.01	24.06
New London	0.09	0.10	1.62	1.59	1.52	3.80	1.70	1.25	5.57	0.26	1.06	0.66	18.62
New Ulm	0.71	0.45	1.26	1.82	4.71	1.71	4.81	2.28	5.50	0.31	1.70	0.53	25.79
Norden	.....	.....	.....	.....	.....	1.58	4.63	1.66	2.73	0.58	0.65	2.42	.....
Park Rapids	0.43	0.47	1.55	.....	.....	.....	3.37	3.23	3.13	0.75	0.30	0.69	.....
Pine River Dam	0.90	0.32	1.59	1.80	3.65	2.82	3.43	2.23	3.67	0.45	0.41	0.98	22.25
Pipestone	0.04	T.	2.05	1.00	2.05	3.68	2.00	3.32	4.65	0.55	0.50	0.15	19.99
Pokegama Falls	0.31	0.32	1.20	1.33	5.11	4.50	2.62	1.33	2.89	0.29	0.22	0.73	20.85
Red Lake	0.44	0.06	1.07	0.60	1.21	4.87	3.20	1.76	3.70	0.00	0.64	0.82	18.37
Red Lake Falls	0.57	1.52	1.75	1.12	1.45	2.40	4.12	1.21	3.10	1.11	0.52	.....	.....
Red Wing	.....	.....	1.24	1.96	5.46	3.10	4.12	1.46	4.26	0.66	1.56	.....	.....
Redwood Falls	0.53	0.23	2.69	2.15	1.64	1.32	4.20	2.06	3.89	0.26	1.06	0.38	20.41
Reeds	.....	.....	1.75	2.65	6.85	2.59	4.28	0.67	3.26	0.73	0.64	.....	.....
Roseau	0.17	1.12	0.37	1.14	1.39	2.07	2.88	1.60	4.92	0.67	0.68	0.28	17.29
St. Charles	0.40	0.39	0.96	3.93	9.42	2.15	4.33	0.99	4.59	1.06	1.06	0.52	29.80
St. Cloud	0.29	0.00	0.80	1.21	2.07	3.18	.....	.....	6.10	0.80	1.02	0.52	.....
St. Paul	0.59	0.46	2.51	2.46	3.38	4.70	2.39	2.79	3.21	0.48	1.58	0.27	24.82
St. Peter	0.60	0.52	0.59	0.93	2.84	3.05	2.74	1.72	5.13	0.35	0.89	0.20	19.56
Sandy Lake Dam	0.23	0.33	1.87	1.93	3.90	4.25	6.49	1.88	2.38	0.52	0.73	0.73	25.24
State Sanatorium	0.39	0.26	1.38	2.46	3.01	4.69	2.77	0.31	3.80	0.22	0.21	0.85	20.35
Taylors Falls	0.10	0.24	0.93	2.34	2.07	4.37	5.48	2.50	7.08	0.88	1.02	0.25	27.26
Thief River Falls	0.76	0.80	0.82	1.15	2.48	2.47	5.71	1.71	3.80	0.63	0.55	0.52	21.40
Tracy	0.46	0.11	2.20	0.92	2.20	2.32	3.25	3.41	4.52	0.18	0.40	0.22	20.20
Two Harbors	0.50	0.30	1.14	2.13	3.74	2.02	5.28	1.57	3.69	0.68	0.28	0.85	22.18
Tyler	0.20	T.	.....	.....	1.85	4.05	4.00	3.00	.....	.....	.....	0.20	.....

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Minnesota—Continued.													
University Farm	0.46	0.23	2.78	1.89	4.10	3.19	4.27	1.05	3.25	0.38	1.25	0.34	23.19
Virginia	0.73	0.97	1.24	1.46	3.10	2.53	4.71	1.14	3.61	0.20	0.31	1.19	21.19
Wadena	0.32	0.67	1.56	2.20	4.90	2.71	.....	2.10	5.18	.....	0.67	0.70	.....
Warren	0.05	.....	.....	0.29	1.39	2.30	3.70	1.11	2.56	0.67	0.34	.....	.....
Warroad	0.52	1.02	0.78	2.32	1.20	1.60	5.68	2.01	4.14	0.30	1.08	0.30	20.95
Waseca	0.32	0.27	1.13	1.66	6.06	3.10	4.22	1.54	4.16	0.60	0.94	0.38	24.38
Wheaton	0.10	0.15	1.44	2.19	1.70	0.64	4.10	2.46	6.06	0.42	.....	.....	.....
Willmar	0.10	0.26	2.61	1.53	2.36	3.42	3.29	3.10	5.24	0.15	0.96	0.05	23.07
Winnebago	0.50	0.60	1.51	1.12	6.12	3.56	3.31	2.59	4.92	1.48	0.90	0.25	26.86
Winnibigoshish	0.38	0.58	1.36	2.40	6.31	3.36	3.92	1.59	2.52	0.39	0.35	0.82	23.98
Winona	0.63	0.49	1.02	3.41	5.08	3.58	3.77	3.41	4.43	1.29	1.29	1.08	29.48
Worthington	0.25	1.03	1.33	1.65	7.78	1.24	1.39	4.96	6.34	0.73	0.63	0.20	27.53
Zumbrota	0.39	0.21	1.56	2.05	5.55	2.98	1.67	1.53	6.87	0.90	1.34	0.50	25.55
Mississippi.													
Aberdeen	3.67	8.04	8.41	6.51	0.97	1.28	3.05	2.86	0.72	1.11	2.63	1.54	40.79
Agricultural College	3.07	5.63	8.97	7.14	0.40	2.47	3.50	2.55	2.99	1.22	1.80	3.49	43.23
Anguilla	3.52	2.35	8.60	11.52	2.42	3.24	3.94	2.64	0.77	1.42	2.22	3.35	45.99
Austin	2.27	6.85	8.37	8.39	1.60	3.55	3.60	2.30	2.56	0.97	6.20	3.13	49.79
Batesville	3.06	5.47	8.85	6.68	0.81	4.06	1.53	3.12	4.57	2.65	4.12	3.96	48.88
Bay St. Louis	2.55	2.59	2.18	6.03	2.91	2.02	7.04	5.88	0.53	1.85	4.56	3.71	41.85
Biloxi	1.99	1.56	3.20	4.77	2.06	1.35	8.53	4.02	4.44	1.61	3.97	5.10	42.60
Booneville	2.18	4.54	5.37	9.29	1.11	2.43	3.58	3.23	4.62	1.72	3.52	3.14	44.73
Brookhaven	2.14	5.23	10.93	11.73	1.80	2.99	9.91	4.19	3.04	1.02	1.22	3.28	57.48
Canton	4.06	5.80	8.16	10.77	1.21	1.70	3.09	4.16	0.90	0.71	0.75	4.05	45.36
Charleston	2.76	2.84	7.38	9.76	0.61	3.12	1.87	2.16	3.16	0.64	3.34	1.64	39.28
Clarksdale	2.53	4.04	0.28	8.89	0.71	5.26	3.29	2.33	3.46	1.58	3.46	4.60	49.43
Collins	1.37	2.30	7.57	13.20	1.10	1.37	2.85	.....	1.60	0.50	.....	4.70	.....
Columbia	2.83	2.22	13.48	12.66	1.43	4.47	5.86	2.81	5.89	1.03	0.91	5.17	58.76
Columbus	3.33	5.04	8.44	10.18	2.45	2.38	3.95	3.96	5.47	0.58	1.99	3.23	51.00
Corinth	2.63	7.33	6.07	5.88	1.04	1.95	3.79	8.26	4.36	3.02	4.82	2.23	51.38
Crystal Springs	4.65	3.42	8.79	12.88	3.03	3.98	4.55	7.79	0.77	1.23	3.37	3.78	58.24
Duck Hill	3.60	3.68	6.03	.....	0.68	2.28	.....	.....	3.17	1.37	3.39	3.15	.....
Edinburg	4.24	6.75	11.26	10.05	0.67	1.17	3.35	4.98	1.44	1.21	1.53	5.98	52.63
Enterprise	2.64	4.62	6.65	9.96	2.14	1.81	5.05	4.70	2.69	1.35	1.26	3.96	46.83
Fayette	3.25	4.00	7.77	10.94	1.47	1.73	5.08	3.37	2.50	0.86	1.02	3.57	45.56
Fruitland Park	2.85	5.00	7.81	4.67	3.05	5.11	5.30	3.85	2.07	1.80	1.50	4.40	47.41
Fulton	3.78	5.92	6.69	9.52	1.92	4.15	3.31	4.28	3.95	0.99	3.35	2.66	50.52
Greenville	3.93	3.83	7.35	7.86	2.04	4.28	3.31	5.60	6.66	0.27	2.25	4.38	51.76
Greenwood	3.81	2.31	8.71	15.13	0.64	2.22	3.27	4.07	2.30	0.89	3.11	3.92	50.38
Grenada	1.74	5.59	6.77	11.90	0.32	0.73	2.88	4.36	4.52	1.01	3.59	2.03	45.44
Hattiesburg	2.70	3.54	11.67	7.37	0.98	4.08	11.19	3.58	2.91	0.54	1.31	4.47	54.34
Hazlehurst	2.48	4.87	.....	.....	2.01	.....	.....	.....	.....	.....	.....	.....	.....
Hernando	2.40	5.12	9.10	10.10	0.85	4.29	3.49	7.04	4.88	1.63	0.54	2.62	58.06
Hickory	3.47	4.64	7.50	7.46	1.23	2.29	5.60	3.93	3.87	1.40	1.80	5.69	48.88
Holly Bluff	2.88	3.26	7.76	10.56	2.01	2.34	2.41	4.16	2.78	0.16	1.15	3.65	43.12
Holly Springs	2.71	5.35	9.16	9.29	0.91	4.86	4.52	4.82	4.27	3.68	4.52	2.49	56.58
Jackson	2.75	7.31	9.20	14.06	2.24	3.99	2.94	2.36	2.02	0.87	2.07	6.00	55.81
Kosciusko	3.89	4.64	7.92	10.35	0.94	2.01	2.64	1.59	1.75	.....	0.99	2.98	.....
Lake	2.86	4.78	5.50	11.13	1.26	2.55	3.16	1.61	3.67	1.10	0.81	3.57	42.00
Laurel	5.00	4.52	11.71	11.98	1.62	0.97	2.52	5.73	.....	.....	.....	3.89	.....
Leakesville	.....	4.96	.....	7.00	1.62	2.45	8.21	1.79	3.14	1.53	1.53	6.97	.....
Louisville	3.52	6.82	7.81	6.87	0.80	1.16	5.12	4.00	2.72	1.78	1.34	3.71	45.65
Macon	3.59	6.43	6.51	10.03	0.52	1.67	1.81	1.96	1.31	0.91	1.93	5.14	41.81
Magnolia	2.74	2.63	20.85	13.16	1.36	2.37	6.87	5.71	1.43	1.89	0.85	4.84	64.70
Meadville	.....	.....	.....	11.23	1.89	3.66	5.64	4.13	1.76	0.93	1.14	7.05	.....
Mendenhall	.....	.....	.....	11.57	1.11	1.76	.....	.....	.....	.....	.....	.....	.....
Meridian	3.27	3.87	6.53	6.67	1.56	2.77	3.76	3.80	0.85	1.20	1.23	3.20	38.80
Merrill	2.58	4.90	9.85	4.73	1.68	3.14	5.22	4.23	1.49	1.56	1.31	7.44	48.13
Monticello	2.79	2.40	11.41	8.69	1.44	3.64	7.37	4.02	0.90	1.21	0.22	1.86	45.95
Moorhead	3.29	2.91	7.45	12.32	0.75	6.17	4.92	1.03	3.05	0.20	3.05	4.30	49.44
Myrtle	.....	5.90	.....	7.20	.....	2.95	4.20	5.45	3.58	1.20	4.20	.....	.....
Natchez	3.10	3.31	7.12	11.22	3.74	4.52	5.50	3.99	4.34	1.11	1.39	6.34	55.68
Okolona	3.54	4.98	7.86	7.07	1.96	2.57	5.08	4.51	2.21	1.02	3.32	4.41	48.53
Pascagoula	1.11	1.41	4.20	2.56	1.82	2.04	8.16	3.33	1.96	2.02	4.89	4.35	37.85
Pearlington	2.42	2.90	4.66	5.06	2.26	3.39	6.83	3.03	3.81	4.29	.....	.....	.....
Pontotoc	2.80	3.12	5.59	7.00	T.	2.25	1.75	5.80	5.35	0.59	1.90	.....	.....
Poplarville	4.02	2.78	6.05	5.58	2.91	4.14	4.66	9.26	5.07	2.50	3.56	5.64	56.17
Port Gibson	2.67	4.21	8.15	9.22	3.24	5.11	3.15	1.90	2.14	.....	1.37	7.34	.....
Rosedale	3.57	1.96	6.24	10.56	1.25	1.85	4.80	2.19	3.70	0.60	2.90	2.87	42.49
Scott	3.11	2.91	5.32	10.03	3.05	2.87	2.87	2.11	4.87	0.32	2.97	3.24	43.67
Shubuta	2.79	4.46	9.60	11.76	2.09	1.27	6.52	2.42	3.01	0.78	0.86	3.91	49.47
Stoneville	3.42	4.65	5.81	6.88	2.26	2.64	3.69	1.76	4.04	0.42	2.39	3.38	41.34
Swan Lake	3.01	3.51	6.90	7.49	0.64	4.86	4.29	2.48	1.85	0.71	2.81	2.83	41.38
Tchula	3.70	2.55	5.07	8.90	1.55	2.57	4.25	2.80	.....	1.60	1.20	.....	.....
Tupelo	1.89	4.61	5.94	9.83	0.72	2.91	3.34	3.42	6.56	0.89	4.06	2.11	46.28
University	2.15	3.35	6.85	9.13	1.10	6.26	4.27	4.30	5.50	1.40	3.75	3.06	51.12
Utica	2.95	5.20	6.95	9.30	2.15	3.20	3.10	.....	.....	.....	2.15	.....	.....
Vicksburg	3.55	3.24	9.49	11.49	1.84	1.90	4.72	1.35	1.72	0.86	0.85	4.29	45.30
Water Valley	1.73	3.57	9.41	9.65	1.00	.....	.....	5.60	4.95	0.35	2.07	2.91	.....
Waynesboro	3.77	4.76	.....	14.07	2.78	0.80	8.94	1.65	1.47	1.10	1.10	2.23	.....
Woodville	3.75	2.76	14.16	11.43	2.45	4.55	7.03	3.57	4.29	1.42	1.23	4.13	60.77
Yazoo City	4.10	4.20	7.10	10.94	2.94	2.15	2.86	4.10	3.34	0.60	1.12	4.02	47.47
Missouri.													
Amoret	1.81	0.16	4.42	4.61	4.41	6.56	4.72	9.20	9.19	1.18	0.50	0.99	47.75
Appleton City	2.64	0.03	4.02	5.99	4.29	7.86	4.93	6.19	10.30	2.11	0.95	1.72	50.13
Arcadia	2.57	1.12	6.20	8.42	3.71	4.30	5.17	5.94	4.89	1.81	8.16	3.14	55.43
Avalon	1.93	0.80	3.70	4.85	5.17	5.51	3.40	4.50	14.95	3.55	1.00	1.25	50.61
Bethany	1.25	0.17	1.73	3.67	2.82	2.64	2.24	3.65	5.02	1.67	T.	0.95	25.81
Birchtree	4.06	2.03	8.00	7.20	1.97	5.41	2.12	7.15	4.20	1.78	8.62	2.64	55.18
Bolivar	2.23	0.56	7.49	3.87	2.93	6.45	1.36	6.14	6.17	3.55	1.40	1.96	44.11
Boonville	1.89	0.42	3.76	4.72	3.94	9.18	1.96	6.59	8.88	3.19	1.09	1.59	47.21
Brunswick	1.51	0.60	3.35	4.84	3.64	4.59	5.60	7.86	8.95	2.94	0.66	1.42	45.96

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Missouri—Continued.													
Cape Girardeau	2.14	2.63	5.14	4.16	2.77	3.21	0.41	4.87	4.63	0.82	9.88	2.34	43.00
Caruthersville	1.98	5.52	7.13	6.07	1.88	2.56	3.95	1.79	4.32	0.46	7.57	2.30	45.53
Chillicothe	1.23	0.36	.....	.....	3.19	3.09	2.77	6.03	8.54	.....	.....	.....	.....
Clifton Hill	2.31	0.52	3.29	4.27	3.28	4.35	2.03	6.69	11.06	3.33	0.74	1.48	42.35
Clinton	2.20	0.25	6.20	5.73	4.09	6.60	1.65	6.52	6.76	1.95	1.00	2.88	45.83
Columbia	1.54	0.45	3.37	5.51	4.01	3.18	2.69	5.83	10.04	2.33	1.34	1.41	41.70
Conception	0.86	0.13	1.01	1.86	3.76	2.54	2.06	1.89	4.74	2.47	T.	0.16	21.48
Dean	2.12	1.29	11.23	6.01	1.28	10.32	1.12	4.60	2.82	1.21	1.42	2.45	45.87
Doniphan	2.80	2.58	6.75	4.87	3.21	5.23	2.25	3.08	6.85	0.36	6.71	2.69	47.38
Downing	1.33	0.78	2.89	5.55	3.13	6.41	1.17	6.79	8.10	3.30	0.48	1.22	41.15
Edgerton	1.39	0.31	3.42	4.29	5.24	8.02	3.04	6.93	8.04	1.59	0.01	0.29	42.57
Eldon	1.53	1.06	4.38	6.04	4.08	6.47	1.45	7.16	7.86	3.07	1.83	1.42	46.35
Farmington	2.30	1.21	5.76	7.26	6.06	3.43	2.27	3.42	6.04	1.63	6.74	2.63	48.75
Fayette	1.63	0.24	3.58	6.19	5.78	6.67	4.08	4.52	10.28	2.66	1.20	1.56	48.39
Fulton	1.35	0.81	4.52	7.13	3.86	2.74	1.67	5.83	10.22	2.31	2.16	2.17	44.77
Gano	2.31	0.79	7.61	5.72	3.56	5.10	2.93	5.97	6.05	2.75	4.71	3.20	50.70
Goodland	2.52	1.02	5.09	8.00	5.13	5.84	3.51	3.72	10.83	1.98	6.18	2.48	56.30
Gorin	1.41	0.73	4.70	6.93	3.74	3.72	1.37	4.60	6.12	3.47	0.75	2.00	39.54
Grant City	1.43	.....	1.62	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hannibal	1.48	0.40	3.35	4.58	1.41	3.52	1.78	5.78	8.05	2.16	1.50	1.50	35.51
Harrisonville	1.47	0.36	3.00	4.65	3.60	7.47	3.51	6.90	11.87	2.06	0.33	1.29	46.51
Hermann	1.37	0.90	5.26	4.68	4.26	4.51	2.40	3.94	8.75	3.54	2.52	3.28	45.41
Hollister	2.02	2.74	7.83	7.35	1.45	7.85	0.65	.....	0.95	0.80	4.20	1.80	.....
Houston	2.80	1.35	5.92	5.48	3.27	6.36	3.74	3.17	7.56	2.82	4.82	2.37	49.76
Jackson	2.84	1.83	3.45	5.55	4.28	5.49	1.70	4.73	5.14	0.91	9.45	3.74	49.11
Jefferson City	1.48	0.88	4.53	5.81	4.32	6.84	0.65	5.43	6.60	3.00	1.88	2.72	44.14
Jerome	.....	.....	.....	5.35	3.05	9.60	2.05	8.38	7.92	3.01	2.24	1.82	.....
Kansas City	1.48	0.32	3.60	2.71	7.54	9.67	1.87	6.23	5.02	1.86	0.07	0.50	40.87
Kidder	0.51	0.70	2.96	2.90	3.75	3.64	2.14	4.71	12.17	1.85	0.00	0.41	35.74
Kirksville	1.43	0.70	4.75	5.63	2.97	6.19	1.46	5.25	6.24	3.48	0.64	1.21	39.95
Koshkonong	1.97	2.40	8.58	7.84	1.94	3.64	2.69	5.11	4.02	1.73	8.39	1.90	50.21
Lamar	3.28	0.17	3.52	5.53	2.44	6.22	1.19	3.23	7.36	1.68	1.26	2.05	37.93
Lamonte	1.98	.....	.....	3.94	5.41	7.27	3.89	10.86	7.54	2.55	1.00	2.40	.....
Lebanon	3.86	0.60	5.93	6.13	5.17	9.52	4.14	4.33	8.96	3.32	1.04	2.43	55.43
Lexington	2.43	0.41	2.39	4.24	3.61	3.45	2.50	9.36	6.42	2.14	0.30	1.62	38.87
Liberty	1.63	0.34	4.70	3.32	5.58	6.05	1.91	9.47	8.55	2.29	0.07	0.13	44.04
Lockwood	1.93	0.55	6.42	5.16	4.23	8.03	0.80	7.68	8.84	2.10	1.56	2.20	49.50
Louisiana	1.65	1.08	4.14	7.31	4.36	7.28	1.67	5.45	8.14	2.31	3.75	2.49	49.63
Macon	1.50	0.68	3.69	5.38	2.22	3.64	1.98	6.00	8.40	5.28	1.00	2.12	41.89
Marble Hill	3.54	1.65	5.38	7.11	3.69	6.28	1.50	10.04	6.23	1.41	8.72	3.46	59.01
Marshall	1.86	0.42	1.71	4.21	4.35	6.27	3.46	5.17	11.58	2.08	1.30	1.95	44.36
Maryville	0.83	0.50	0.91	3.03	5.56	3.03	1.64	3.77	5.79	1.80	0.03	0.17	27.06
Mexico	2.09	0.50	3.27	5.86	3.51	4.82	1.58	5.77	10.66	2.48	1.28	1.61	43.43
Mountain Grove	2.30	1.55	6.59	7.42	1.66	10.07	1.78	4.01	3.43	3.40	5.70	2.55	49.46
Neosho	2.04	1.11	6.34	4.74	1.78	7.38	2.29	4.70	2.70	0.66	1.18	2.48	37.40
Nevada	2.08	0.25	3.23	5.69	4.95	10.30	4.69	4.66	6.46	1.48	1.02	1.47	46.28
New Madrid	2.77	3.85	7.77	6.65	2.42	5.09	3.70	3.70	7.31	0.81	11.73	2.60	58.40
Oregon	0.87	0.53	0.65	2.48	4.76	5.19	4.79	3.34	6.79	2.84	T.	0.14	32.38
Osceola	1.91	0.25	4.02	4.48	4.18	7.43	5.11	8.98	9.82	2.14	1.25	1.19	50.76
Pacific	0.95	0.79	6.28	5.34	5.35	5.64	1.51	3.23	5.77	1.51	3.84	2.84	43.05
Palmyra	1.66	0.61	.....	.....	.....	4.15	2.06	5.38	.....	.....	0.91	1.60	.....
Parma	1.87	3.43	6.80	4.86	2.92	3.92	1.53	3.46	4.20	0.48	10.11	2.90	46.48
Patton	2.15	1.62	6.23	7.46	6.12	9.48	1.58	5.22	4.61	1.25	10.00	1.25	56.97
Poplar Bluff	1.58	0.94	.....	6.29	2.56	3.10	0.83	3.27	2.77	0.96	7.46	1.89	.....
Rolla	1.66	0.59	6.63	6.77	3.55	9.04	1.68	7.00	6.80	2.79	2.55	2.78	51.84
St. Catherine	1.30	0.69	5.31	5.03	2.42	8.58	1.56	3.90	9.46	2.25	0.62	1.36	42.48
St. Charles	1.12	0.80	6.05	4.78	2.08	5.24	1.30	3.34	4.40	4.40	4.00	0.96	38.47
St. Joseph	0.72	0.39	1.27	3.21	4.71	4.37	2.66	4.84	7.31	2.89	0.03	0.38	32.78
St. Louis (Weather Bureau)	1.10	1.08	6.14	7.01	4.29	2.31	2.05	2.75	5.60	1.45	4.43	2.89	41.10
St. Louis (No. 2)	0.95	0.89	6.08	6.00	3.96	4.27	1.49	2.49	4.65	0.95	4.25	3.04	39.02
Seligman	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.26	1.92	.....
Seymour	1.60	0.77	7.28	5.16	2.34	10.45	0.43	4.07	2.93	2.31	3.69	2.01	43.04
Shelbina	1.89	0.60	4.25	5.11	3.48	3.00	1.65	6.24	10.54	2.10	1.10	1.33	41.29
Springfield	1.36	0.85	7.35	4.79	4.06	9.68	0.70	7.59	3.90	2.55	2.46	1.92	47.21
Steelville	1.67	0.91	7.27	5.71	3.19	3.72	2.42	6.41	5.11	2.45	4.57	2.95	46.38
Steffenville	2.49	0.70	5.04	6.00	3.40	4.82	2.65	3.74	5.80	3.17	1.32	1.02	40.15
Tarkio	0.72	0.02	1.19	3.60	5.20	.....	3.43	2.92	5.78	4.32	T.	0.17	.....
Trenton	1.38	0.47	3.31	6.73	2.90	4.99	2.10	4.02	7.13	2.09	0.14	0.88	36.14
Tuscumbia	1.34	0.69	6.31	5.10	6.19	7.20	1.60	3.86	9.49	3.60	1.85	2.40	49.63
Union	1.46	0.86	6.94	4.94	4.20	5.62	2.44	4.61	6.04	1.22	3.26	2.78	44.37
Unionville	1.11	0.57	3.06	5.35	2.80	6.51	2.48	7.15	6.76	2.35	T.	2.00	40.14
Valley Park	0.92	0.39	7.01	5.88	4.34	3.02	2.31	2.25	6.58	1.27	4.52	2.60	41.09
Vandiser	2.04	2.71	5.48	6.53	3.12	5.50	2.44	3.52	6.28	0.84	8.04	2.73	48.23
Warrensburg	2.52	0.44	3.10	4.61	3.33	.....	.....	.....	.....	.....	.....	.....	.....
Warrenton	1.50	0.85	5.21	5.57	4.86	3.27	1.81	5.07	10.11	3.33	2.62	3.52	47.72
Warsaw	2.62	0.55	5.38	6.35	6.12	11.39	3.60	8.86	8.87	3.02	1.48	3.09	61.33
Waverly	2.60	0.56	3.26	3.23	4.54	7.11	3.20	7.10	10.79	2.83	0.63	1.65	47.50
Montana.													
Adel	0.54	0.28	3.02	4.55	4.38	4.54	2.48	1.40	2.71	T.	2.09	1.91	27.90
Agricultural College	1.01	0.40	1.82	1.34	2.50	1.34	2.25	0.38	1.26	0.29	1.08	1.52	15.19
Anaconda	0.67	0.16	1.05	1.89	1.04	1.73	0.82	2.07	1.07	0.90	2.27	1.17	14.84
Augusta	.....	.....	.....	.....	2.25	1.37	0.58	0.23	0.76	0.07	1.32	1.45	.....
Babb	0.74	1.15	2.02	1.56	2.66	1.65	1.93	0.30	2.06	0.15	1.26	0.74	16.22
Ballantine	0.15	0.28	0.65	0.86	2.80	2.59	0.58	0.24	0.67	0.23	1.23	0.14	10.42
Belton	4.35	2.91	4.26	1.75	0.87	2.55	0.72	0.96	2.61	1.54	5.05	2.95	30.52
Bennett Farms	T.	0.16	0.13	0.51	1.78	4.24	2.19	0.27	3.19	T.	0.30	0.00	12.77
Biddle	0.63	.....	.....	.....	.....	3.40	0.93	0.15	0.90	0.15	0.42	0.18	.....
Big Ox	0.24	0.16	2.37	0.45	2.61	1.96	0.00	0.85	0.48	0.00	2.52	1.03	12.67
Big Sandy	.....	.....	.....	.....	.....	.....	.....	.....	0.54	0.21	1.73	.....	.....
Bigtimber	0.00	0.18	1.55	0.55	5.75	2.75	1.03	0.25	0.36	0.00	1.27	1.13	14.82
Billings	0.08	0.02	0.87	0.83	3.30	2.42	0.79	0.51	0.46	T.	1.37	0.48	11.13
Blackleaf	0.74	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bowen	0.52	0.56	1.09	1.64	1.91	2.00	0.48	.....	.....	.....	.....	.....	.....
Brenner	1.16	0.43	0.82	1.90	2.55	1.33	0.18	0.94	1.38	0.07	1.48	0.54	12.78

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Montana—Continued.													
Bridger	0.03	0.16	0.39	0.30	2.38	1.67	1.05	0.30	0.27	0.00	0.50	0.29	7.29
Broadus	0.52	0.21	0.70	0.71	1.69	3.53	0.95	0.07	0.80	0.10	1.23	0.59	11.10
Browning	0.35	0.59	1.00	1.34	1.57	1.64	0.71	0.23	0.84	0.12	1.05	0.56	10.00
Busby	0.21	0.09	0.17	0.49	2.27	1.18	0.93	0.14	0.42	0.35	1.39	0.43	8.07
Busteed	0.21	0.15	1.43	0.92	3.09	1.36	0.62	0.55	0.49	0.03	1.81	0.69	11.35
Butte	1.00	0.48	1.59	1.02	2.42	2.34	1.01	0.90	1.78	0.31	3.10	1.26	17.24
Canyon Ferry	0.26	0.06	0.49	0.17	1.43	1.91	1.46	0.53	1.04	0.04	1.06	0.44	8.89
Carter	0.06	0.03	1.52	0.47	1.62	2.75	2.30	0.25	0.74	0.14	0.81	0.61	11.30
Cascade	T.	0.01	0.61	1.62	2.84	1.99	0.60	0.19	0.90	T.	0.97	1.60	11.36
Chinook	0.11	0.09	1.91	0.96	2.60	2.12	3.48	0.33	1.61	0.29	1.08	0.17	14.75
Choteau							2.33	0.14	0.36	T.	1.11	0.87	
Columbia Falls	1.80	1.39	1.67	1.22	0.77					1.67	1.67	1.64	
Como	1.12	0.40			1.80	1.53	0.18	0.79	2.25	0.31	4.01	1.28	
Conrad	0.24	0.04	0.37	1.33	1.81	1.11	1.16	0.70	0.42	0.05		1.50	
Copper	0.77	0.20	0.66	0.41	1.36	1.95	3.49	0.46	2.48	0.15	1.00	0.93	13.86
Crow Agency	0.50	0.93	1.47	1.78	5.86	1.58	0.78	0.00	0.00	0.30	1.25	0.12	14.67
Culbertson	0.08	0.08	0.80	0.94	1.34	2.82	1.72	0.08	1.90	0.13	0.46	0.16	10.51
Cut Bank	0.30	0.15	0.96	0.62	1.95	1.65	1.24	0.41	0.73	T.	0.28	0.60	8.89
Dayton	1.00	0.43	0.97	1.00	0.70	1.46	1.94	0.46	0.91	0.59	1.60	1.19	12.25
Deer Lodge	0.36	0.12	0.29		3.71	2.78	0.66	0.98	0.86	T.	1.97	0.83	
Dell	0.08					1.90		1.77		0.12			
Denton	0.03	0.26	0.54	0.70	1.48	3.58	4.26	0.74	1.14	0.04	0.84	0.42	14.03
Dillon	0.32	0.77	0.90	2.43	4.61	3.71	0.82	1.17	1.72	0.10	0.81	1.12	18.48
Dunkirk	0.16	0.17			2.65	1.91	1.64	1.32	0.76	0.03	0.68	0.20	
East Anaconda	0.61	0.13	0.68	1.90	2.12	1.25	1.05	1.82	1.11	0.15	1.65	1.05	13.52
Ekalaka	0.31	0.07	1.13	1.06	1.61	2.76	1.08	0.51	1.24	T.	1.00	0.28	11.05
Ennis	0.64				2.20	1.05	0.45	0.70	1.00	0.00		0.40	
Findon	0.38	0.36	0.96	0.38	2.98	3.97	4.19	1.06	1.71	0.08	1.72	1.34	19.13
Flathead Creek	1.73	0.89	3.57	1.52	2.88	1.58	3.11	1.12	2.57	0.56	2.77	2.13	24.43
Flatwillow	0.06	0.06	0.56	0.73	3.33	2.96	0.97	0.80	0.86	0.05	0.83	0.76	11.97
Fortine				1.17	1.19	2.00	1.08	0.74	0.28	0.83	2.42	1.80	
Fort Shaw	0.05	0.01	0.65	0.81	1.84	1.39	1.42	0.61	0.57	0.11	0.64	1.28	9.38
Foster	0.30	0.12	0.43	0.57	3.45	2.09	0.90	0.04	0.20	0.00	1.13	0.32	9.55
Geraldine	0.24	0.09	1.51	1.61	2.02	3.23	3.30	0.32	1.96	0.01	1.25	2.68	18.22
Glasgow	0.04	0.39	0.98	1.29	2.05	6.35	2.65	0.07	1.63	0.07	0.94	0.50	16.96
Glendive	0.11	0.18		1.02	1.05	4.05	2.84	0.29	1.90	0.05	0.56	0.18	
Gold Butte	0.31	0.26	1.00	0.53	1.43	1.75	2.09	0.10	0.61	0.10	0.72	0.31	9.21
Great Falls	0.03	0.20	1.26	0.89	2.26	1.91	2.86	0.61	1.40	0.17	1.06	1.69	14.34
Hamilton	0.63	0.33	2.00	1.51	0.78	2.41	1.18	0.32	0.93		2.31	0.10	
Harlowton	0.08		1.04	0.00	2.85	1.70	1.30	0.00		0.00			
Haugan	3.94	1.42	2.45	2.24	0.82	1.37	0.10	0.14	2.66	1.36	7.05	4.04	27.59
Havre	0.12	0.15	1.89	0.92	2.17	2.00	2.51	0.27	1.50	0.16	1.09	0.25	13.03
Hebgen Dam	3.91	1.44		1.86	4.54	1.45	0.78	1.79	1.12	0.88	2.53	2.01	
Helena	0.36	0.25	1.24	1.07	1.64	1.65	0.29	0.68	1.09	0.04	1.65	1.13	11.09
Hercules Ranch	0.78	0.04	0.28	1.11	1.35	4.27	1.16	0.45	0.95	T.	1.05		
Heron	4.68	3.62	5.81	2.62	0.60	1.28	0.62	1.29	1.16	2.66	4.71	4.31	33.36
Highwood	0.07	0.14	1.02	1.34	3.26	4.27	5.60	0.55	1.55	0.15	1.60	1.26	20.81
Hobson	0.16	T.	0.98	0.71	3.01	3.21	2.73	1.97	0.67	T.	1.26	0.92	15.62
Holter	0.00	0.14	0.50	1.10	3.30	1.05	0.06	0.05	0.12	0.00		0.86	
Jordan				1.05	3.80	4.70	0.10	0.30					
Kalispell	1.29	0.66	1.55	1.17	0.57	1.22	0.62	0.56	0.79	1.15	2.39	1.16	13.13
Kinread	0.04	0.05	0.84	0.32	1.76	1.69	1.67	0.50	0.79	0.14	0.82	0.56	9.18
Knobles Ranch	0.48	0.26	0.66	0.75	2.63	1.91	1.74	0.44	1.10	0.08	1.03	0.37	11.45
Knowlton	0.44	0.50	1.69	1.37	1.03	7.48	1.50	0.61	1.55	0.10	1.55	0.43	18.25
Lewistown	0.46	0.33	1.91	1.88	4.30	4.72	3.29	0.27	1.88	0.11		0.62	
Libby	2.62	1.69	2.50	0.64	T.	1.32	0.58	1.11	1.21	1.10	3.59	1.32	17.68
Lustre								0.10	1.89	0.00	0.49	0.23	
Lytle	0.05	0.08	0.95	0.61	1.30	1.83	2.09	0.32	0.76	0.14	0.84	1.39	10.36
Malta	0.06	0.10	1.49	0.90	2.66	4.29	3.48	0.42	1.59	0.01	1.42	0.17	16.59
Medicine Lake		0.02		2.21	1.35	5.84	2.22	0.16	2.13	0.30	0.30	T.	
Melstone	0.00	0.16	0.34	0.54	1.23	3.60	0.80	0.00	1.00	0.00	1.14	0.36	9.17
Mildred	0.22	0.30	0.08	0.63	0.61	4.05	1.42	0.95	1.16	T.	0.62	0.13	10.17
Miles City	0.28	0.41	1.22	0.98	1.29	6.85	1.76	0.23	0.82	0.06	2.23	1.34	17.47
Missoula	0.43	0.22	1.78	1.56	1.02	0.99	0.46	0.39	1.23	0.59	2.88	1.28	12.83
Moose Lake					2.16	1.39	1.24		1.44				
Mount Silcox								1.02					
Nelson Reservoir							1.79	0.27	2.37	0.07			
Norris	0.42	0.36	1.31	1.78	4.65	2.11	0.93	0.58	2.09	0.34	1.52	1.84	17.93
Outlook	0.04	0.12	0.09	1.17	2.37	5.30	1.77	0.52	3.91	0.17	0.43	T.	15.89
Ovando	1.44							0.33	1.12	0.99	2.06	1.53	
Philipsburg	0.58	0.22	1.10	1.67	2.27	2.13	0.56	1.21	1.08	0.32	2.13	1.00	14.27
Pine Grove	0.20	T.	1.15	0.78	4.68	4.25	2.24	T.	0.58	0.04	0.59	1.08	15.59
Plains	1.83	0.68	1.76				0.07	0.55	1.41	0.24	3.00	1.71	
Plevna	1.20	0.27	0.87	0.77	1.18	4.74	1.82	0.69	0.93	0.13	1.15	0.25	14.00
Poison	1.40	0.62	1.82	2.68	1.19	1.45	1.69	0.09	0.66	0.54	2.77	1.54	16.45
Poplar	0.24	0.15	0.68	1.46	1.26	7.32	2.22	0.55	1.61	0.01	0.09	0.09	15.68
Red Lodge	0.46	0.06	1.68	1.12	5.72	1.91	0.92	0.56	0.44	0.03	1.11	1.12	15.13
Renova	0.16	0.10	0.14	0.70	1.48	2.13	0.82	1.19	2.03	0.13	0.48	1.26	10.62
Rock Springs	0.40	0.32	1.02	1.73	1.58	7.57	1.12	0.08	1.25	0.08	1.09	0.39	16.63
Roundup		0.33	0.41	0.27	2.67	3.07	2.12	0.46	0.68	0.06	1.32	0.80	
Roy								T.	1.25	0.00	0.70	0.49	
Rudyard	T.	0.02	0.41	0.53	1.02	2.28	1.75	0.00	0.62	0.11	0.28		
St. Ignatius	0.59	0.46	1.46	1.87	0.91	2.38	0.59	0.08	1.03	0.42	1.85	0.94	12.58
Savage	0.04	0.26	1.18	0.95	0.77	2.72	2.15	T.	0.72	T.	0.35	0.18	9.32
Sidney	0.02	0.28	1.01	1.49	0.88	2.83	2.57	0.07	2.35	T.	0.33	0.64	12.47
Snowbelt	0.20	0.18	1.12	1.63	2.22	3.03	2.04	0.22	1.02	0.08	1.07	0.63	13.44
Springbrook	0.22	0.10	1.38	1.53	0.75	16.79	4.34	0.63	1.15	0.12	0.67	0.55	28.23
Stevensville	0.78	0.44	1.40	0.81	0.38	0.82	0.04	0.78	1.08	1.09	3.60	0.78	12.00
Suffolk	0.10												
Sula						1.52	0.48	1.84	1.83				
Sun River Canyon	0.06	0.11	2.47	1.97	7.18	2.19	0.48	0.64	1.09	0.03	1.61	1.75	19.58
Sunset Orchard	0.43	0.68	0.97	1.26	1.28	0.78	0.31	0.27	0.97	0.70	3.08	0.69	11.42
Superior	1.50	0.55	2.74			2.04	0.28	0.10	1.35				
Thompson Falls	2.06	1.70	3.15	1.71	0.67	1.78	0.09	0.56	1.44	0.95	3.00	3.34	20.45
Three Forks	0.14		0.13	0.57	1.61	2.76	1.48	0.93	1.81	0.07	0.81	1.30	

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Montana—Continued.													
Townsend	0.35	0.00	.....	0.06	0.78	1.10	0.91	0.58	0.24	0.01	0.07	0.04	.....
Trout Creek	1.68	2.66	3.24	1.70	0.50	0.77	0.29	1.48	1.20	2.01	4.14	3.38	23.05
Upper Yaak River	3.13	1.40	2.20	2.23	0.68	1.09	0.44	0.67	1.94	1.06	2.65	2.98	20.47
Utica	0.25	0.06	1.32	0.71	3.83	4.28	3.34	1.27	1.90	T.	1.41	1.36	19.73
Valentine	0.02	0.20	0.83	1.14	3.36	2.56	0.64	0.36	0.65	0.00	0.82	0.70	11.28
Valier	0.12	0.12	0.41	0.84	1.87	1.01	1.18	0.25	0.72	T.	0.44	0.89	7.85
Vananda	0.00	0.10	0.95	1.15	2.12	2.38	1.00	0.77	0.00	0.00	.....	0.45	.....
Victor	1.23	0.67	1.49	1.93	1.95	2.10	0.15	0.52	1.05	0.51	5.45	1.37	18.42
Virginia City	0.77	0.30	.....	0.83	2.71	0.93	0.98	0.82	2.14	0.20	1.09	0.54	.....
Wheaton	0.16	0.16	1.00	0.75	3.13	3.36	2.00	0.67	1.23	T.	1.67	1.17	15.30
White Sulphur Springs	0.34	T.	0.19	0.22	1.61	0.97	2.03	0.18	1.51	T.	1.89	0.56	9.50
White Water	0.13	0.33	0.71	1.43	1.44	3.65	3.67	0.36	1.79	0.00	0.78	T.	14.29
Wibaux	0.21	0.12	0.73	1.50	1.27	4.58	2.99	0.45	2.12	0.09	0.76	0.09	14.91
Willow Creek Reservoir	0.03	0.03	0.42	1.04	2.14	1.03	0.60	0.17	0.16	0.00	1.10	1.40	8.12
Winifred	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.46	1.25	.....
Nebraska.													
Ainsworth	1.00	0.80	1.28	0.95	6.35	1.21	3.40	3.83	1.16	1.38	0.51	0.50	22.37
Albion	0.80	0.70	0.32	2.69	6.19	2.50	4.13	1.68	2.35	0.43	0.70	0.50	22.99
Alliance	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.93	.....	.....	.....
Alma	0.53	0.08	0.48	1.63	4.32	2.79	1.80	2.65	1.64	0.30	0.46	0.00	16.68
Arcadia	0.50	0.15	0.30	2.71	3.67	1.83	6.83	2.99	1.50	1.20	T.	0.15	21.83
Arden	1.01	0.70	1.10	1.96	3.82	2.45	4.94	1.14	0.85	0.95	0.59	0.29	19.80
Ashland	0.33	0.42	0.64	2.09	4.40	3.43	3.43	2.88	4.21	1.04	0.14	0.06	23.07
Atkinson	0.30	0.60	0.58	0.89	3.50	1.44	3.24	4.24	0.61	1.90	0.42	0.54	18.26
Auburn	0.95	0.45	0.67	2.34	4.30	3.33	5.46	2.77	6.52	4.50	0.02	0.50	31.81
Beatrice	0.48	0.22	1.35	1.66	2.73	4.30	7.40	3.06	3.30	1.15	T.	0.07	25.72
Beaver City	0.79	0.00	0.71	2.77	2.68	2.80	2.88	3.66	2.49	0.39	0.34	0.00	19.51
Bertrand	0.62	0.30	0.26	3.73	5.62	1.90	2.76	1.09	2.20	1.19	0.50	T.	20.17
Bingham	.....	.....	.....	.....	.....	.....	.....	.....	1.51	1.15	0.16	0.85	.....
Blair	0.31	1.19	1.73	2.59	3.57	4.92	7.89	3.38	3.26	2.13	0.26	0.16	31.39
Bradshaw	0.30	0.50	0.68	3.08	1.48	1.95	4.64	1.16	5.41	0.67	0.07	0.02	19.96
Brewster	0.77	1.50	1.20	1.79	4.04	2.18	4.51	7.42	2.02	.....	0.35	0.32	.....
Bridgeport	1.05	0.30	0.20	0.34	5.15	4.44	0.64	1.63	0.60	1.02	0.77	0.97	17.11
Broken Bow	0.76	0.53	0.23	1.63	5.70	2.25	5.87	3.50	0.89	1.87	0.07	0.11	23.41
Bruning	0.52	0.23	0.27	3.32	0.84	2.44	5.62	3.12	5.44	0.93	T.	0.04	22.77
Burwell	0.80	0.87	0.64	2.64	2.44	1.33	5.72	2.05	1.59	2.69	0.15	0.22	21.14
Butte	0.23	0.10	1.68	0.96	4.52	2.43	5.23	4.60	1.51	1.36	0.51	0.60	23.73
Cairo	0.40	0.40	0.40	3.65	10.53	1.10	3.37	1.25	1.72	0.61	T.	0.04	23.47
Central City	0.39	0.30	0.88	2.54	4.60	4.45	3.90	1.67	3.33	0.76	0.17	0.11	20.10
Chadron	1.97	0.30	0.09	0.79	3.62	5.94	3.13	1.41	0.65	1.53	0.94	0.69	21.06
Clay Center	0.55	0.30	0.07	3.33	0.98	1.53	4.22	1.97	2.59	0.71	0.05	0.15	16.45
Columbus	0.32	0.65	1.25	1.86	5.51	0.69	6.57	3.36	6.69	1.97	0.23	0.32	29.42
Crete	0.40	0.26	0.50	2.26	1.51	6.12	5.28	3.46	2.78	1.15	T.	0.15	23.87
Culbertson	1.04	0.20	0.50	1.46	3.12	1.18	1.95	2.64	1.34	0.76	0.37	0.12	14.68
Curtis	0.70	0.40	0.05	1.70	4.80	2.30	2.80	3.10	1.10	1.10	0.45	0.20	18.70
David City	0.25	0.67	2.07	2.23	3.43	1.20	8.61	2.63	4.52	1.48	0.27	0.17	27.53
Drexel	0.32	0.81	1.69	3.33	3.04	2.80	7.57	1.69	3.73	1.58	0.16	0.07	26.79
Dumas	0.15	1.10	0.51	1.45	3.29	2.12	5.84	3.42	1.63	2.10	0.37	0.35	22.33
Elm Creek	1.29	0.58	0.45	2.57	6.08	1.08	1.75	2.12	2.58	0.28	0.20	0.11	19.09
Elsie	1.08	0.35	0.55	1.44	1.30	2.52	2.57	3.05	0.91	1.75	0.23	0.17	15.82
Ericson	0.30	0.40	T.	1.38	1.55	1.90	4.85	1.09	0.85	1.02	0.05	0.15	13.54
Ewing	0.17	0.50	0.77	1.44	3.47	2.03	5.09	1.79	0.90	1.48	0.20	0.58	18.42
Fairbury	0.56	0.29	0.76	2.97	2.05	3.39	5.66	1.47	1.61	1.42	T.	0.07	20.25
Fairmont	0.25	0.25	0.46	2.05	2.00	1.71	5.78	2.69	4.26	0.95	T.	0.06	20.46
Falls City	1.06	0.51	0.49	3.23	4.00	2.15	5.73	2.96	5.65	2.97	T.	T.	28.75
Firth	.....	.....	.....	.....	.....	.....	.....	6.71	5.05	1.43	0.00	0.08	.....
Fort Omaha	0.64	1.38	1.47	1.99	3.01	3.97	4.98	1.60	.....	2.03	.....	.....	.....
Fort Robinson	1.28	.....	0.22	.....	2.15	.....	.....	.....	.....	.....	0.76	1.02	.....
Franklin	0.95	0.10	0.46	2.59	4.23	2.88	2.06	2.15	4.37	0.23	0.36	T.	20.38
Fremont	0.36	0.90	2.38	4.36	4.49	1.83	7.84	1.62	4.11	1.31	0.21	0.15	29.56
Fullerton	0.60	0.59	0.85	2.26	5.24	1.02	6.07	2.24	3.89	1.14	0.18	0.21	24.29
Geneva	0.39	0.20	0.19	3.85	0.71	2.64	4.64	1.58	5.08	1.05	0.02	0.11	20.46
Genoa	0.32	0.32	0.94	3.50	5.23	0.51	5.25	2.29	4.60	1.37	0.33	0.30	24.96
Gordon	0.97	0.15	0.32	0.47	2.71	3.35	2.88	1.75	2.94	1.35	0.97	0.41	18.27
Gosper	0.80	0.19	0.29	3.15	8.13	4.34	2.68	1.56	2.75	1.71	0.43	T.	26.03
Gothenburg	1.05	0.47	0.20	2.00	3.60	1.04	2.50	2.65	1.83	1.25	0.16	0.25	17.00
Grand Island	0.46	0.51	0.58	3.13	6.12	1.54	3.98	1.43	3.88	0.63	0.14	0.23	22.63
Greeley	.....	.....	.....	.....	.....	2.75	4.35	2.80	.....	0.75	.....	.....	.....
Guide Rock	0.45	0.05	0.55	5.22	1.62	1.67	6.15	1.25	3.18	0.35	0.10	T.	20.59
Haigler	0.98	T.	0.90	2.15	1.78	2.09	1.87	1.95	1.50	1.15	0.10	T.	14.47
Halsey	0.30	0.90	0.79	1.06	3.88	0.99	2.14	2.52	0.95	1.23	0.06	0.18	15.00
Harrison	1.60	0.30	0.22	0.94	3.10	2.28	4.99	0.54	0.44	0.82	0.93	1.01	17.17
Hartington	0.30	0.45	0.42	1.23	4.83	2.20	5.94	2.58	2.68	1.78	0.52	0.50	23.43
Hastings	1.25	T.	0.10	3.91	1.68	1.15	4.90	2.42	1.39	0.37	0.10	0.20	17.47
Hayes Center	1.57	0.20	0.25	1.42	2.95	3.68	3.22	1.90	1.43	0.95	0.80	0.30	18.67
Hay Springs	1.50	1.10	0.55	0.40	3.86	3.33	2.45	0.85	1.49	1.55	0.85	0.85	18.78
Hebron	0.33	0.14	0.40	4.19	0.66	2.25	6.95	1.51	1.36	0.75	T.	0.08	18.62
Hillside	0.60	0.30	1.35	0.75	4.63	1.85	3.41	0.99	0.38	0.13	0.05	0.58	15.02
Holdrege	0.80	0.25	0.39	2.88	5.65	2.22	3.21	1.17	2.23	0.35	0.37	0.20	19.72
Imperial	1.06	0.38	0.41	1.75	1.74	4.15	1.55	1.63	1.58	1.30	0.27	0.43	16.25
Kearney	0.51	.....	0.31	2.79	5.99	1.29	1.97	2.07	1.81	0.31	0.14	0.22	.....
Kimball	1.40	0.20	0.55	0.76	2.31	2.56	2.21	2.69	0.35	0.92	0.45	1.20	15.60
Kowanda	0.74	0.42	0.43	0.42	2.42	1.34	1.21	.....	.....	2.02	0.14	.....	.....
Lexington	0.70	0.45	T.	2.53	8.19	2.16	1.49	1.68	2.41	1.13	0.10	0.15	20.99
Lincoln (Weather Bureau)	0.31	0.37	0.66	3.04	3.10	4.43	4.75	3.43	2.81	0.93	0.02	0.11	23.96
Lincoln (University Farm)	0.30	0.34	0.61	2.27	3.44	4.95	6.00	3.35	3.63	0.87	0.02	0.16	25.94
Lincoln (Agronomy Farm)	.....	.....	.....	.....	.....	4.37	5.64	3.42	4.75	1.11	T.	0.05	.....
Lodgepole	1.61	0.40	0.65	2.12	2.45	2.17	2.60	2.24	0.53	1.92	0.48	0.80	17.97
Loup City	.....	.....	.....	2.33	5.73	1.56	5.60	1.47	1.97	1.19	0.17	0.08	.....
McCook	.....	.....	.....	.....	.....	.....	.....	.....	1.24	0.39	.....	.....	.....
McCool Junction	0.43	0.50	0.20	3.23	1.41	2.18	6.45	4.27	3.57	1.00	T.	T.	23.24
Madison	0.98	0.72	1.02	2.98	4.86	2.49	5.51	1.57	3.47	1.22	0.52	0.55	25.80
Madrid	0.50	0.30	0.20	1.30	1.49	1.99	1.84	3.00	0.50	.....	.....	.....	.....
Mary	0.80	0.80	1.06	0.86	4.06	1.40	3.88	3.89	1.48	1.53	0.35	0.69	20.80
Mason City	0.70	0.50	0.63	2.86	.....	.....	5.75	.....	0.55	0.62	0.15	0.10	.....

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Nebraska.—Continued.													
Merriman	0.81	0.15	0.54	0.77	3.49	2.33	5.49	3.02	1.81	1.23	0.44	0.42	20.50
Minden	0.59	0.30	0.51	3.41	5.40	1.57	1.87	1.54	2.03	0.05	0.25	0.10	17.62
Mitchell	0.84	0.19	T.	0.44	2.32	1.84	2.40	1.79	1.38	0.83	0.41	0.90	13.34
Nebraska City	0.85	0.25	0.55	1.79	3.07	4.21	8.83	3.30	10.21	1.70	0.05	0.04	34.85
Neligh	0.63	0.70	0.34	1.21	4.46	0.98	5.15	2.72	1.44	0.96	0.35	0.22	19.16
Nenzel	1.28	0.35	1.75	1.27	5.22	2.44	3.95	3.31	1.91	1.27	1.05	1.05	24.85
Newport	0.42	0.24	0.37	1.05	4.78	3.27	5.31	3.30	0.96	2.44	0.20	0.36	22.70
Norfolk	0.80	0.86	1.22	2.93	3.82	2.23	6.70	1.33	2.17	1.49	0.54	0.55	24.64
North Loup	0.30	0.45	0.10	2.96	7.02	1.88	4.73	2.83	1.58	0.92	0.13	0.15	23.05
North Platte	0.68	0.36	0.42	1.30	1.89	1.39	0.80	2.57	1.00	0.92	0.04	0.14	11.51
Oakdale	0.56	0.69	0.82	1.90	5.12	1.51	5.93	2.79	0.90	0.81	0.32	0.31	21.66
Ogallala	0.55	0.50	1.10	1.50	1.38	4.22	2.12	2.97	3.52	0.95	0.30	0.50	19.61
Omaha	0.48	0.69	1.08	2.13	3.18	3.57	4.99	2.07	5.35	1.52	0.09	0.14	25.29
O'Neill	0.10	0.45	1.14	1.37	2.49	1.19	3.91	2.64	0.46	1.14	1.35	0.46	15.70
Ord	0.95	0.70	0.40	3.80	3.44	2.23	6.67	4.13	0.98	1.61	0.10	0.20	25.21
Orleans	0.95	0.50	.....	2.40	3.92	2.55	2.13	3.54	3.38	0.45	0.75	0.05	.....
Osceola	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.67	.....	T.	.....
Oshkosh	1.12	0.60	0.45	0.60	3.20	1.43	1.94	1.07	0.75	1.14	0.61	0.37	13.28
Palisade	0.84	0.25	0.46	1.42	2.34	1.46	1.15	3.27	1.18	0.80	0.42	0.13	13.72
Pawnee City	.....	.....	.....	3.05	2.60	3.67	7.54	1.56	1.73	2.18	T.	0.05	.....
Paxton	0.50	0.60	0.76	1.31	1.18	1.80	2.46	2.71	0.90	1.26	0.10	0.45	14.03
Plattsmouth	0.45	0.55	0.35	2.64	3.80	3.47	6.52	2.76	7.20	1.30	T.	0.02	29.06
Potter	.....	.....	.....	.....	.....	.....	1.38	1.21	0.76	0.65	0.21	0.97	.....
Purdum	0.57	0.80	1.23	1.41	6.33	1.27	2.19	4.92	0.70	0.99	0.21	0.48	21.10
Ravenna	1.65	0.92	0.22	2.76	7.57	0.97	4.80	1.55	1.89	0.89	0.15	0.14	23.51
Red Cloud	0.57	0.07	0.33	5.26	2.81	1.27	3.56	0.94	3.13	0.22	0.12	0.01	18.29
St. Paul	0.44	0.48	0.38	2.56	8.09	1.84	4.48	2.15	2.53	0.53	0.12	0.10	23.70
Santee	0.30	0.50	1.28	0.72	6.93	1.69	6.54	3.49	0.92	0.87	0.34	0.53	24.11
Schuyler	0.33	0.40	1.41	2.60	4.26	1.04	6.29	2.82	4.15	1.95	0.20	.....	.....
Scottsbluff	0.94	0.19	0.14	0.51	2.01	1.47	0.97	1.91	1.49	1.14	0.79	1.06	12.62
Seward	0.17	0.50	0.12	3.82	1.62	4.12	6.21	3.95	4.75	1.61	0.07	0.20	27.14
Sidney	0.95	0.60	0.87	1.55	1.88	3.34	1.01	1.07	1.02	0.50	0.40	0.60	13.79
Springfield	0.87	0.60	0.69	1.42	3.55	4.49	3.96	3.23	7.59	1.42	0.11	0.14	28.07
Stanton	0.69	0.32	0.77	1.87	4.55	1.29	4.27	1.71	3.00	0.87	0.20	0.27	19.81
Stapleton	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.20	.....
Stella	.....	.....	.....	0.72	5.92	2.76	6.73	.....	3.66	.....	.....	.....	.....
Stratton	1.31	0.10	0.77	2.58	1.00	1.61	2.43	2.54	0.58	0.65	0.23	0.11	13.91
Superior	.....	.....	.....	.....	0.99	2.61	3.91	0.71	2.66	0.56	0.05	T.	.....
Sutherland	0.42	0.62	0.47	0.63	1.91	2.58	1.47	3.95	0.32	1.35	0.25	0.20	14.17
Syracuse	0.85	0.60	0.60	2.77	4.00	4.37	6.97	4.88	7.49	1.53	T.	0.05	34.11
Table Rock	0.72	0.33	0.59	2.65	3.09	2.40	7.71	1.69	2.65	2.77	T.	0.09	24.69
Taylor	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.10	0.26	.....
Tecumseh	0.85	0.17	0.62	2.52	2.21	2.55	6.49	3.17	3.92	2.18	0.01	0.04	24.73
Tekamah	1.15	1.02	1.38	2.15	3.62	2.51	7.44	4.14	2.27	1.42	0.23	0.35	27.68
Upland	0.70	0.15	T.	2.02	5.03	2.43	2.00	0.47	2.22	0.10	0.10	T.	15.22
Utica	0.18	0.62	0.51	3.41	1.60	2.63	5.99	2.93	4.01	1.20	0.11	0.02	23.21
Valentine	0.40	0.27	0.91	1.17	2.28	1.65	3.42	1.60	2.05	1.27	0.68	0.74	16.44
Wahoo	0.34	1.15	0.85	2.85	3.87	2.15	5.27	1.89	5.21	1.91	T.	0.15	25.64
Wakefield	0.35	0.75	1.08	1.30	4.74	1.33	5.60	4.02	3.55	1.48	0.40	0.21	24.81
Walthill	0.23	0.92	0.68	1.75	3.44	2.55	5.68	3.70	3.24	1.43	0.49	0.50	24.61
Watertown	0.66	0.30	T.	3.46	5.09	1.33	2.53	2.61	2.50	0.42	0.20	0.30	19.40
Wauneta	0.96	.....	0.56	1.33	2.49	1.90	2.17	1.61	1.47	0.98	0.35	0.07	.....
Weeping Water	.....	.....	.....	1.55	3.33	2.77	4.66	5.15	6.30	1.26	0.10	.....	.....
Western	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.17	T.	0.04	.....
West Point	0.86	0.91	0.86	2.49	6.19	1.85	9.47	3.92	5.31	1.73	0.70	0.28	34.67
York	0.94	0.60	0.42	4.36	1.28	2.02	5.51	1.76	4.54	1.37	0.03	0.18	23.01
Nevada.													
Alamo	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.41	0.00	0.67	.....
Arthur	2.89	1.99	0.17	1.70	3.50	0.42	0.56	0.29	T.	0.85	0.79	2.75	15.91
Austin	0.36	0.70	0.64	2.15	1.55	0.40	0.20	0.10	0.70	0.05	0.41	1.95	9.21
Battle Mountain	0.20	0.25	0.10	0.70	0.90	0.50	0.00	T.	0.00	0.00	0.25	2.30	5.20
Beatty	1.69	0.00	0.65	0.02	2.66	0.00	0.00	0.00	0.20	0.75	0.00	2.23	8.20
Beowawe	0.24	0.28	0.00	0.76	1.43	0.24	0.12	0.00	0.00	0.00	0.00	.....	.....
Clover Valley	1.90	2.91	T.	1.62	2.52	0.33	0.21	0.87	0.80	0.05	0.20	2.80	14.21
Elko	0.90	1.38	0.30	0.80	1.55	0.30	0.20	0.10	0.30	0.40	0.65	2.75	9.63
Eureka	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.98	.....
Fallon	0.06	0.03	0.07	T.	1.64	0.66	0.01	0.10	0.28	T.	0.18	1.40	4.43
Gerlach	0.20	0.00	0.04	T.	0.41	0.15	0.53	0.00	T.	0.03	0.15	1.25	2.76
Golconda	0.32	0.16	0.08	0.60	0.44	1.45	0.00	0.20	0.00	T.	0.75	1.55	5.55
Gold Creek	2.43	1.77	0.08	1.04	1.21	0.07	0.12	0.05	0.05	0.33	1.10	2.03	10.28
Goldfield	0.93	0.10	0.10	0.00	2.33	0.00	0.00	1.28	0.00	0.00	0.00	2.00	6.74
Hylton	1.79	1.42	1.08	1.97	3.69	0.27	0.25	0.61	0.27	0.14	0.86	2.72	15.07
Imlay	0.38	T.	0.25	0.37	0.75	1.44	0.00	0.00	T.	T.	0.21	1.16	4.56
Jungo	0.52	0.02	0.25	0.24	1.25	0.40	0.00	0.00	0.00	0.00	0.20	0.81	3.69
Lahonton	0.15	0.04	0.19	0.00	1.73	0.12	T.	T.	0.12	T.	0.04	0.64	3.03
Lamoille	2.35	3.07	1.71	4.16	5.22	1.21	0.52	0.60	0.53	0.20	0.92	2.99	23.48
Las Vegas	1.49	T.	0.35	T.	0.99	0.00	0.36	0.58	0.65	T.	0.00	1.05	5.47
Logandale	1.76	0.02	0.24	0.07	0.24	0.00	0.08	2.25	0.00	1.08	0.03	1.99	7.76
Lovelock	0.27	0.03	0.50	T.	1.18	0.99	0.00	0.00	0.00	0.05	0.53	1.22	4.77
McGill	0.69	0.29	0.77	1.37	1.64	0.01	1.92	1.64	0.36	0.69	0.01	1.14	10.53
Mahoney Ranger Station	2.01	1.36	0.14	2.91	4.17	0.35	0.45	0.48	0.60	0.26	0.35	2.40	15.48
Marlette Lake	4.05	1.72	1.08	0.32	2.59	0.04	0.00	0.30	.....	.....	.....	.....	.....
Millett	0.77	0.93	0.10	0.05	1.14	T.	0.57	1.04	0.20	1.18	0.70	1.51	8.59
Mina	0.48	0.04	0.00	T.	3.20	0.00	0.00	T.	0.60	0.00	T.	0.40	4.72
Minden	1.69	0.25	0.40	0.00	1.59	0.75	0.00	0.00	0.20	0.05	0.10	2.44	7.47
Montello	.....	.....	.....	.....	.....	.....	.....	.....	0.10	0.21	0.05	1.70	.....
North Fork	1.47	1.83	0.37	0.66	2.43	0.73	0.06	0.57	0.10	0.10	1.09	1.83	11.24
Owyhee	2.39	1.91	.....	1.05	2.90	.....	.....	.....	.....	.....	0.92	1.88	.....
Pahrump	1.27	0.25	0.42	0.05	.....	0.00	0.00	0.31	0.05	0.25	T.	2.97	.....
Quinn River Ranch	0.89	0.31	0.34	0.17	0.94	0.25	.....	.....	.....	.....	.....	0.63	.....
Rebel Creek	1.24	0.75	0.72	0.52	1.22	1.20	T.	T.	T.	0.01	0.54	1.26	7.46
Reno	0.84	0.18	0.13	0.01	2.57	0.23	0.15	0.10	0.12	0.39	0.20	2.35	7.27
Rye Patch	1.31	0.05	0.53	0.13	1.72	0.33	0.00	0.02	0.00	0.05	0.18	1.25	5.57
Sand Pass	0.64	0.24	0.55	0.03	1.93	0.38	T.	0.18	0.03	0.03	0.20	1.61	5.82
San Jacinto	0.57	T.	0.49	1.70	4.55	1.35	0.23	0.19	T.	0.07	0.35	0.66	10.16

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Nevada—Continued.													
Schurz	0.18	0.06	0.35	0.03	1.63	0.28	0.02	0.10	0.12	0.02	0.09	1.23	4.11
Searchlight	2.01	0.04	0.47	0.00	0.88	0.00	0.96	3.25	2.02	1.91	0.00	3.68	15.22
Sharp	1.92	0.27	2.00	0.83	1.86	0.00	1.38	1.50	0.13	1.19	0.00	4.35	15.43
Smith	1.15	0.10	0.43	0.04	1.35	0.33	0.46	T.	0.25	T.	T.	1.88	5.99
Sulphur	0.10	T.	0.43	0.12	0.93	1.10	0.00	0.00	0.00	0.00	0.22	1.19	4.09
Tecoma	0.20	0.36	0.00	1.04	2.19	0.36	0.00	0.72	.....	.....	.....	.....	.....
Thorne	0.10	T.	0.10	0.00	1.70	0.10	0.00	0.00	0.20	T.	0.00	0.70	2.90
Tonopah	0.22	0.28	0.09	0.07	2.50	0.08	0.01	0.94	0.25	0.28	0.06	1.08	5.86
Tuscarora	1.62	1.74	0.65	1.40	4.17	0.56	T.	0.11	0.07	0.24	0.64	2.42	13.62
Vya	1.25	1.20	0.14	0.10	2.48	1.54	0.00	0.00	0.05	0.05	1.65	2.45	10.91
Winnemucca	0.46	0.37	0.66	0.06	1.18	0.82	T.	0.16	0.01	0.05	0.64	1.34	5.75
Yerington	.....	.....	T.	T.	1.88	T.	0.00	0.06	0.38	0.03	0.04	1.76	.....
New Hampshire.													
Alstead Center	1.32	2.34	2.84	4.86	1.89	5.22	5.94	2.70	3.97	2.63	6.72	1.64	42.07
Berlin	0.97	2.03	2.72	2.76	1.25	1.60	3.90	3.48	2.22	2.96	4.35	2.75	30.99
Bethlehem	1.07	1.79	2.55	2.60	1.23	2.15	5.27	3.86	1.84	2.63	4.79	2.23	32.01
Concord	1.58	2.48	2.58	4.27	2.82	4.16	5.26	1.60	2.40	2.09	4.34	2.64	36.22
Durham	1.50	2.22	2.40	4.61	1.98	3.32	4.70	2.61	1.30	2.52	6.64	2.55	36.35
Franklin	1.58	2.35	2.74	4.92	1.97	3.41	5.06	1.85	2.53	2.18	5.93	2.29	36.81
Glencliff	1.53	2.50	3.10	3.78	1.90	2.92	5.40	4.23	2.63	2.82	5.16	1.78	37.75
Hanover	0.89	2.03	4.12	4.19	0.96	2.69	2.27	3.04	2.33	2.65	5.11	1.37	31.65
Keene	1.53	2.10	3.94	4.64	2.98	5.54	4.30	1.89	2.25	1.96	6.44	1.94	39.51
Lancaster	0.63	0.66	0.75	1.61	0.57	.....	.....	.....	1.08	2.18	3.39	1.89	.....
Lincoln	1.95	2.05	4.89	4.47	1.43	1.78	5.18	5.27	3.35	3.34	5.63	3.68	43.02
Pittsburg (a)	2.03	1.92	3.52	2.75	1.94	2.22	2.13	4.17	2.91	3.91	5.37	2.35	35.22
Pittsburg (b)	2.55	2.40	4.15	3.29	1.25	3.58	2.05	5.08	2.86	4.98	4.73	3.65	40.57
Plymouth	1.37	2.07	3.86	2.27	0.99	2.99	2.88	2.69	3.22	2.65	5.74	2.29	33.02
Profile	1.98	2.10	4.33	5.06	1.96	1.57	6.82	5.34	3.49	5.38	4.78	3.51	46.32
Waterville	1.89	1.54	4.59	5.69	1.57	2.20	3.70	4.93	3.78	4.41	4.90	2.95	42.15
West Stewartstown	0.92	1.27	1.19	2.42	1.07	.....	.....	.....	1.80	4.21	3.87	2.14	.....
Woodsville	1.79	2.56	3.86	3.38	2.76	1.69	3.55	3.34	2.89	2.94	4.26	2.42	35.45
New Jersey.													
Asbury Park	2.82	.....	3.33	3.02	3.27	4.76	4.20	3.13	1.29	0.46	3.52	2.56	.....
Atlantic City	1.91	3.74	2.55	3.16	3.37	1.48	3.29	4.56	1.51	1.37	6.69	2.30	35.93
Belvidere	2.81	4.13	3.40	3.54	2.99	3.54	3.31	4.42	2.98	1.87	5.21	2.82	41.02
Bergen Point	2.38	3.25	2.68	4.44	4.65	.....	.....	4.08	2.52	0.91	4.43	1.62	.....
Boonton	3.10	3.22	3.65	4.32	4.47	3.48	2.22	3.65	3.56	0.99	4.20	2.50	39.36
Bridgeton	2.26	2.58	3.42	3.26	2.73	1.85	3.59	3.18	1.99	0.98	3.97	2.27	32.08
Burlington	3.21	3.67	2.55	4.09	3.81	3.76	3.17	7.48	1.80	0.43	3.99	2.26	40.22
Camp Dix	.....	2.86	3.64	3.91	4.84	3.00	2.48	3.73	1.89	0.84	3.84	1.99	.....
Cape May	1.79	2.83	2.27	2.97	3.35	2.50	3.08	2.98	0.80	1.62	3.22	2.50	29.91
Charlotteburg	2.72	.....	3.76	4.52	3.94	4.64	6.19	3.70	3.87	1.45	4.79	2.74	.....
Chatham	3.07	4.37	2.75	3.73	5.45	3.59	2.24	5.05	1.34	0.84	5.56	3.14	41.13
Clayton	.....	3.41	2.77	3.40	4.45	.....	2.67	5.17	3.01	0.88	.....	.....	.....
Culvers Lake	2.51	3.18	2.92	3.20	3.75	4.62	3.75	2.05	4.06	2.18	5.06	2.54	39.82
Dover	3.49	4.07	4.65	4.34	4.21	4.62	2.78	3.46	4.06	1.54	6.33	3.23	46.78
Elizabeth	2.72	5.01	2.55	2.97	5.14	3.21	4.17	3.89	1.84	1.27	3.92	2.42	39.11
Flemington	3.31	3.72	.....	3.90	3.29	2.68	6.24	3.28	2.28	0.93	4.43	2.57	.....
Hammonton	1.78	3.97	3.57	4.35	4.92	3.39	3.44	4.93	2.27	0.79	3.97	2.46	39.84
Hightstown	2.75	.....	3.41	4.44	5.07	2.87	5.61	6.70	1.62	0.84	3.38	3.14	.....
Highwood	2.91	4.33	3.08	4.74	4.46	3.10	2.96	3.89	2.29	1.03	3.97	2.25	39.01
Imlaystown	3.04	.....	2.84	3.53	5.01	2.13	2.43	5.58	1.62	0.66	3.56	2.56	.....
Indian Mills	2.34	4.38	3.28	4.71	2.60	2.80	3.58	4.16	1.87	0.64	3.16	2.62	36.14
Jersey City	2.40	4.73	2.39	2.71	4.23	3.41	1.99	4.56	2.50	0.76	4.16	1.99	35.63
Kearny	2.43	.....	2.40	3.77	4.32	3.39	2.68	3.37	2.18	0.72	3.49	2.41	.....
Lakewood	2.82	5.17	3.14	3.56	5.02	2.88	2.45	3.49	1.59	0.81	3.77	2.16	36.86
Lambertville	2.13	.....	.....	.....	.....	.....	.....	6.07	1.64	0.76	4.37	2.27	.....
Layton	2.79	3.56	3.53	4.54	3.26	2.68	3.93	3.07	4.22	1.51	5.17	2.37	40.63
Little Falls	3.45	5.82	3.58	4.10	5.14	3.06	2.30	5.02	1.93	0.64	4.91	2.67	42.62
Long Branch	2.66	3.74	2.73	5.20	4.17	2.46	5.54	2.35	1.86	0.33	2.79	1.90	35.73
Moorestown	2.09	.....	2.67	3.06	.....	3.67	3.46	5.42	2.41	0.97	4.03	.....	.....
Newark	2.67	4.94	4.60	2.50	5.19	5.26	2.33	4.11	3.50	0.69	3.53	2.25	41.57
New Brunswick	2.63	3.59	2.28	2.34	6.44	1.92	7.36	6.96	2.27	0.53	3.55	2.29	42.16
New Milford	3.02	2.48	3.07	4.47	3.61	3.04	3.93	4.56	2.06	0.84	4.18	2.47	37.73
Newton	2.72	3.86	2.49	3.22	2.85	5.16	3.35	2.56	4.21	2.05	4.60	2.40	39.47
Northfield	1.79	3.05	2.95	3.73	4.14	1.40	4.22	3.99	1.39	1.33	5.87	2.05	35.91
Paterson	3.09	3.95	2.71	3.04	3.82	2.32	1.66	3.98	1.66	0.69	4.05	2.25	33.22
Phillipsburg	3.06	3.24	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.95	.....
Plainfield	2.51	3.78	2.34	2.98	4.72	5.64	6.32	4.28	2.00	0.76	3.74	2.35	41.42
Pleasantville	1.96	3.67	2.82	3.57	3.19	1.52	3.93	4.42	1.14	1.15	5.83	1.75	34.95
Ridgefield	3.06	4.01	2.74	3.84	4.72	2.04	2.18	4.34	2.85	0.74	3.58	2.48	37.48
Sandy Hook	2.06	3.11	2.17	2.21	4.16	2.66	6.42	4.63	1.47	0.49	2.95	1.64	33.97
Somerville	.....	3.63	1.80	3.26	4.46	2.74	5.84	3.46	3.45	0.67	.....	.....	.....
South Orange	3.21	4.95	2.87	3.27	5.44	4.15	2.58	4.54	2.18	0.69	4.17	2.84	40.89
Sussex	2.71	2.69	3.13	2.94	3.64	3.67	3.74	.....	5.04	1.57	4.25	.....	.....
Trenton	2.41	3.44	2.42	1.86	4.04	4.83	2.01	8.01	1.69	0.34	2.83	1.85	35.73
Tuckerton	2.47	4.52	4.30	2.74	3.01	2.79	3.94	4.36	1.86	1.09	5.57	2.21	38.86
Vineland	2.13	3.11	3.93	3.75	3.38	1.52	2.90	4.17	2.10	0.62	5.51	2.45	35.57
Woodcliff Lake	.....	.....	.....	4.60	4.63	4.01	1.49	4.05	1.15	0.36	3.45	1.59	.....
New Mexico.													
Abbott	0.97	0.56	0.71	0.05	1.91	3.94	5.17	3.99	0.03	0.35	T.	0.23	17.91
Agricultural College	0.01	0.12	0.04	0.04	0.36	0.58	1.29	1.63	1.08	1.09	0.57	0.23	7.64
Alamogordo (near)	0.23	0.05	0.12	T.	0.44	0.91	2.57	2.62	1.71	0.00	0.20	1.04	9.99
Alamogordo	0.24	0.05	0.09	0.02	0.27	1.53	3.00	2.46	1.54	0.04	0.16	1.04	10.44
Albuquerque	0.12	0.18	0.86	T.	0.28	2.46	2.77	2.60	0.37	0.37	0.00	0.28	10.29
Alma	0.25	0.34	0.92	0.36	0.67	0.39	4.74	3.57	T.	0.49	0.29	0.52	12.54
Ancho	0.40	0.10	0.55	0.04	0.78	3.25	6.21	1.37	0.15	T.	0.00	T.	12.85
Aragon	0.21	0.68	1.19	0.20	0.30	0.20	3.70	3.15	0.00	0.00	.....	.....	.....
Artesia	0.31	1.14	T.	0.04	1.03	4.89	5.12	1.01	0.96	0.33	0.10	0.01	14.94
Aspen Grove Ranch	1.20	1.61	0.64	1.21	1.21	4.05	5.96	4.86	0.42	0.86	0.33	2.12	24.47
Aurora	0.50	0.36	1.69	0.85	3.17	7.09	4.78	5.33	0.72	0.24	0.09	0.25	25.07

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
New Mexico—Continued.													
Aztec	0.57	0.32	0.81	0.00	[0.94]	3.30	2.28	1.95	0.00	0.61	0.30	0.80	11.88
Baca Ranch Ranger Station	0.44	0.15	0.51	0.08	2.92	3.58	8.51	1.63	2.11	0.08	0.10	0.17	20.28
Baldwin Ranger Station	0.57	0.58	1.26	0.21	1.14	1.30	3.29	3.10	0.47	0.74	T.	1.02	13.68
Barton	0.54	1.73	1.62	0.18	0.92	3.17	2.34	4.58	0.54	0.48	0.00	0.43	16.53
Bateman's Ranch	[1.20]	[1.61]	1.09	1.50	2.64	4.17	4.22	4.28	0.73	1.25	0.31	1.80	24.80
Bell Ranch	1.19	0.32	0.68	T.	2.84	4.51	6.06	1.18	T.	0.13	T.	0.02	16.93
Bellview	1.36	0.47	0.70	[T.]	2.80	5.94	7.34	3.11	0.42	0.00	0.00	0.10	22.24
Black Lake	0.22	0.30	0.73	0.59	1.14	5.28	6.49	5.17	0.52	0.04	0.04	T.	20.52
Blackrock	0.36	0.61	0.26	0.40	0.15	1.04	5.84	2.55	0.28	0.46	T.	1.45	13.40
Bland (near)	0.69	0.44	0.59	0.38	2.24	3.75	3.43	4.44	0.10	0.20	T.	1.23	17.49
Bloomfield	0.51	0.08	0.27	0.37	0.94	3.34	1.07	2.93	T.	0.59	0.05	0.62	10.77
Boaz	0.56	0.29	0.42	0.04	3.18	6.54	2.55	1.06	0.88	0.00	0.00	T.	15.52
Buchanan (near)	0.51	0.12	0.56	0.00	2.23	4.40	2.83	2.46	0.33	0.04	0.05	0.07	13.60
Cabeza	1.04	0.32	0.34	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cambray	0.00	0.14	0.24	0.00	0.20	0.63	2.84	0.55	1.20	0.00	0.20	0.18	6.18
Campana	1.51	0.15	0.33	0.00	2.76	5.57	5.25	1.20	0.31	0.08	T.	T.	17.16
Capitan	0.34	0.03	0.74	0.18	2.14	2.07	4.63	3.34	2.14	0.04	0.02	0.26	15.93
Capulin Ranger Station	1.09	0.58	0.99	0.67	0.82	2.56	7.11	5.32	0.29	1.34	[0.56]	1.78	23.11
Carlsbad	0.28	0.58	0.02	T.	2.71	2.81	1.50	1.25	0.46	0.00	0.10	0.01	9.72
Carrizozo	0.50	[0.13]	1.31	T.	0.20	1.39	5.63	2.14	1.24	0.18	T.	T.	12.72
Carson Seep Ranger Station	0.10	1.02	0.26	0.00	3.57	3.80	4.75	2.05	2.61	0.00	0.05	0.08	18.29
Chacon	0.40	0.45	0.79	0.73	2.55	6.53	8.12	4.11	0.56	0.70	T.	0.52	25.46
Chama	1.68	1.07	0.98	1.29	1.67	3.11	3.51	5.48	0.62	1.38	0.80	2.21	23.80
Chloride	.....	.....	.....	.....	0.47	0.56	6.02	3.69	.....	.....	.....	.....	.....
Cimarron (near)	0.83	0.24	2.08	0.27	3.45	5.24	5.82	2.34	0.19	0.04	T.	0.04	20.54
Clayton	0.91	0.31	0.27	0.12	2.94	4.63	9.22	1.45	1.33	0.45	0.03	0.07	21.73
Cloudcroft	0.21	0.87	0.87	T.	0.95	1.70	6.15	3.91	3.76	[0.50]	0.21	0.63	19.76
Cloverdale	0.25	1.30	0.50	0.00	0.00	0.18	3.66	2.66	0.70	0.25	1.25	0.15	10.90
Clovis	1.33	0.37	0.20	0.00	1.98	5.85	6.98	0.99	2.27	T.	0.00	0.00	19.97
Columbus	T.	T.	0.22	0.00	T.	0.36	2.89	2.13	0.21	0.14	0.52	0.57	7.04
Corbin Farms	.....	.....	1.39	0.02	.....	.....	.....	.....	.....	.....	.....	.....	.....
Corona	0.61	0.15	0.73	0.30	0.97	2.79	5.56	1.03	0.21	0.07	T.	0.30	12.72
Costilla	.....	.....	.....	2.41	.....	2.90	2.18	.....	.....	.....	.....	.....	.....
Crown Point	0.45	0.49	0.15	0.09	0.14	0.81	2.93	3.48	T.	.....	.....	.....	.....
Cuervo	0.65	0.25	0.80	0.00	6.10	3.45	5.26	2.21	0.45	0.00	0.00	0.10	19.27
Cundiyo	0.65	0.49	0.32	0.33	2.23	2.63	0.79	1.00	2.25	0.54	0.00	0.57	11.80
Dawson	0.61	0.70	0.38	0.18	2.52	4.80	4.27	3.12	0.15	0.12	0.00	0.02	16.87
Deming	0.00	0.25	0.50	0.02	0.01	0.23	3.30	1.39	1.02	0.00	0.42	0.26	7.40
Deming (near)	0.00	0.24	0.89	0.04	0.02	0.02	1.47	1.89	0.59	0.04	0.44	0.26	5.90
Demonstration Farm	0.89	0.20	0.57	0.10	4.01	4.81	7.92	3.13	0.58	T.	0.00	0.16	22.37
Des Moines	1.60	0.58	1.51	1.28	2.47	4.38	3.64	3.23	2.05	0.38	T.	0.07	21.19
Diener	.....	.....	.....	.....	0.07	0.84	8.68	5.51	0.73	0.75	0.08	1.35	.....
Dufur Ranch	.....	.....	.....	.....	.....	3.55	3.35	3.45	0.50	0.93	0.20	0.85	.....
Dulce	1.47	0.81	0.89	0.50	1.60	2.36	2.66	4.15	0.27	0.68	0.62	2.40	18.41
Duran	0.28	0.29	1.40	T.	2.33	4.64	3.52	2.07	0.22	0.12	0.06	0.20	15.13
Eagle Rock Ranger Station	0.66	.....	.....	.....	4.16	4.24	3.38	2.65	0.66	1.11	0.02	0.34	.....
Elephant Butte Dam	0.12	0.01	0.58	T.	0.25	1.24	3.63	0.95	1.02	0.30	0.60	0.30	9.00
Elida	0.20	0.31	0.20	0.00	3.00	7.84	3.97	1.39	[1.90]	0.00	0.00	0.00	18.81
Elizabethtown	0.08	0.60	1.01	2.11	1.34	5.10	2.46	3.25	0.55	0.39	0.13	0.19	17.21
Espanola	0.10	0.33	0.05	0.45	1.22	2.87	2.37	1.70	0.30	0.80	0.00	0.67	10.86
Farmington	0.60	0.47	0.98	0.43	0.54	1.00	2.08	3.06	0.22	0.50	0.12	0.84	10.84
Field (near)	1.34	0.21	0.32	T.	4.13	4.71	2.77	2.07	[2.00]	[0.04]	T.	T.	17.59
Fort Bayard	0.11	0.50	0.05	T.	0.15	0.05	1.81	0.78	.....	.....	.....	.....	.....
Fort Stanton	0.22	T.	0.65	0.45	3.17	3.02	6.47	3.48	1.81	0.19	0.09	0.06	19.61
Fort Sumner	1.34	0.60	0.89	T.	.....	.....	.....	2.08	0.65	0.00	0.00	0.00	.....
Fruitland	0.50	0.33	0.83	0.17	0.44	1.48	0.93	2.37	0.00	0.52	0.09	0.82	8.48
Gage	0.00	0.20	0.68	T.	0.11	0.17	3.09	2.32	0.38	0.43	0.75	0.44	8.57
Gallegos (near)	1.93	0.12	0.47	0.10	3.41	4.62	4.74	1.82	0.51	0.13	0.00	T.	17.85
Gallinas Planting Station	.....	.....	.....	0.11	2.66	5.81	8.55	5.97	0.46	.....	0.00	.....	.....
Gallinas Ranger Station	0.65	0.26	0.65	0.15	1.22	1.96	5.58	1.43	0.71	0.16	T.	T.	12.77
Gallup	0.45	0.39	0.11	0.03	0.26	1.13	2.46	5.25	0.02	.....	.....	.....	.....
Garfield	0.00	0.09	0.47	0.00	0.28	0.93	2.43	2.58	1.74	[0.25]	0.15	0.31	9.23
Gladstone	2.38	0.90	0.65	T.	4.54	5.50	7.25	2.88	0.36	0.15	0.17	0.27	25.05
Glorieta Ranch	0.21	0.04	0.38	0.15	1.63	1.54	2.15	2.53	1.48	0.45	0.06	0.21	10.83
Hachita	0.10	1.20	0.96	0.00	0.20	0.31	2.90	2.30	0.94	0.12	0.97	0.45	10.45
Hagerman	.....	.....	.....	.....	.....	6.58	1.99	1.39	0.24	0.08	0.07	0.00	.....
Harvey's Upper Ranch	1.52	1.80	2.15	0.53	4.05	7.70	9.65	8.73	0.31	0.63	0.04	1.91	39.02
Hayden (near)	1.05	0.08	0.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Haynes	0.88	0.51	0.52	0.80	0.48	2.86	4.43	3.46	0.37	0.74	0.56	1.82	17.43
Hermanes	0.00	0.86	0.02	0.00	0.00	0.47	4.22	3.96	0.56	0.28	0.72	0.40	11.49
Hermosa	0.23	0.05	0.55	0.20	1.18	2.05	5.72	3.44	1.58	0.85	0.25	0.86	16.96
Hobbs	0.10	1.19	0.43	0.07	0.86	9.30	3.25	0.83	1.18	T.	T.	0.17	17.38
Hood Ranger Station	0.96	0.30	0.70	0.17	1.10	0.43	2.71	6.27	0.35	0.44	0.13	0.29	13.85
Hoosier Ranch	0.59	0.06	0.44	T.	2.70	5.27	6.77	1.81	0.00	0.20	T.	0.04	17.88
Hope	0.36	0.79	0.23	T.	1.00	8.63	3.26	1.51	0.48	0.02	0.13	0.05	16.46
Ione	1.58	0.23	0.82	0.15	4.05	6.65	3.91	2.40	0.04	0.31	T.	0.07	20.21
Jal	0.01	1.33	0.82	0.00	0.98	4.54	1.49	0.28	.....	.....	.....	.....	.....
Jemez Springs	0.88	0.70	0.38	0.17	1.60	3.69	5.07	2.40	0.05	0.54	T.	1.34	16.82
Johnson's Park	0.80	0.40	0.31	0.49	4.06	5.84	3.99	4.21	0.69	0.29	T.	0.20	21.28
Kingston Ranger Station	0.47	0.43	0.83	0.20	0.61	0.53	3.48	2.83	2.87	0.30	0.40	0.52	13.47
Laguna	0.48	0.20	0.60	0.00	1.05	0.90	4.35	.....	.....	.....	.....	.....	.....
Lagunita	1.26	0.35	1.27	0.04	3.45	5.28	4.31	2.36	0.12	T.	T.	0.08	18.52
Lake Alice	0.80	0.70	0.25	1.90	3.35	5.87	2.92	5.40	1.77	0.37	T.	0.80	24.13
Lake Avalon	0.20	1.36	0.00	0.00	1.55	4.95	1.48	0.83	1.12	0.00	0.14	0.00	10.63
Lake Valley	0.07	0.12	0.59	T.	0.43	0.46	6.71	0.88	0.98	0.20	0.25	0.60	11.29
Lakewood	0.25	0.75	0.00	0.00	1.38	3.67	1.70	1.00	0.74	T.	0.15	0.00	9.64
Lanark	T.	0.20	0.02	0.00	0.00	.....	.....	1.21	2.14	0.23	0.65	0.24	.....
Las Vegas	0.84	0.36	0.68	0.08	2.80	6.73	6.34	5.36	0.46	0.10	0.00	0.42	24.17
Lindrith	0.83	0.71	0.00	0.48	0.00	2.81	8.06	2.79	0.00	0.00	0.00	0.44	16.12
Logan	1.04	0.45	1.81	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lordsburg	0.35	0.21	0.10	0.10	0.10	0.50	3.25	1.50	0.60	0.30	0.65	0.25	7.91
Los Lunas (near)	0.50	0.39	0.75	0.00	[0.28]	2.31	2.14	2.57	0.26	T.	0.00	0.15	9.26
Loving	0.25	0.60	0.00	T.	2.17	4.97	0.89	2.94	0.15	0.00	.....	.....	.....
Lovington	0.04	1.10	1.06	T.	1.47	6.12	2.27	1.08	1.24	T.	T.	T.	14.38
Luna Ranger Station	0.88	0.31	0.22	0.03	0.33	0.99	7.68	3.79	0.33	0.51	T.	0.57	15.64
Magdalena	0.24	0.16	0.17	T.	0.59	0.94	3.09	1.54	0.45	0.00	0.00	0.55	7.73

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
New Mexico—Continued.													
Maxwell (near)	0.92	0.26	0.28	0.00	2.90	3.40	3.60	4.48	0.71	T.	0.00	0.00	16.55
Mayhill Ranger Station	T.	0.45	0.45	T.	1.62	4.08	9.36	5.60	2.68	0.20	0.10	0.74	25.28
Meek	1.13	0.83	1.07	0.00	2.99	3.86	5.10	[2.48]	1.12	0.17	0.27	0.59	19.61
Melrose	1.97	0.50	0.19	0.02	3.70	6.72	2.90	3.97	2.27	0.03	T.	T.	22.27
Mescalero	0.35	[0.20]	0.60	0.25	[1.08]	1.85	6.33	5.60	2.80	0.48	0.19	0.46	20.19
Miami Ranch	0.57	0.28	0.89	T.	3.27	4.41	4.34	1.89	[0.19]	T.	0.00	0.10	15.94
Mills	0.82	0.30	0.61	T.	1.97	4.82	5.65	2.02	0.00	0.00	0.00	T.	16.19
Mills (near)	1.08	0.55	0.75	T.	2.23	5.64	7.57	2.06	0.00	0.42	T.	0.15	20.45
Mineral Hill	0.89	0.79	1.02	0.53	2.01	5.19	8.24	4.80	0.11	0.61	T.	0.66	24.85
Mogollon Ranger Station	.....	.....	0.46	0.58	1.55	2.18	6.34	6.38	.....	.....	.....	.....	.....
Montoya	0.45	0.50	0.27	0.02	2.70	3.70	4.12	0.83	T.	0.15	T.	0.04	12.78
Mosquero	1.03	0.47	0.54	0.00	3.48	4.92	6.11	1.70	0.00	0.30	0.00	T.	18.55
Mountainair (near)	0.84	0.33	1.22	0.45	0.69	3.07	3.21	2.99	1.04	0.46	0.53	0.35	15.18
Mountain Park	0.33	0.20	1.01	0.04	1.08	2.51	5.02	6.61	3.29	0.35	0.20	0.56	21.30
Nara Visa	2.08	T.	0.36	0.11	6.50	8.39	4.36	2.33	0.40	0.25	0.00	T.	24.78
Newman	0.10	0.42	0.10	T.	0.29	1.40	2.94	0.74	1.25	0.35	0.30	0.36	8.25
Nogal (near)	0.93	0.47	1.69	0.20	1.25	2.76	8.64	7.02	1.98	1.11	0.00	0.43	26.48
Olive (near)	0.83	0.25	0.28	0.00	0.98	5.85	1.49	3.33	1.47	0.00	0.00	0.00	14.48
Orogrande	T.	0.22	0.00	0.00	0.90	1.18	1.53	0.80	1.44	0.34	0.30	0.35	7.06
Oscura	0.52	0.16	0.65	0.01	0.43	0.34	1.53	2.55	0.89	0.07	T.	0.28	7.43
Palma	0.83	T.	1.50	0.01	2.05	1.44	5.52	2.09	0.95	T.	T.	T.	14.39
Palo Verde	1.14	0.53	0.50	T.	2.38	5.65	5.76	1.36	T.	0.12	T.	0.10	17.54
Pasamonte	0.75	0.47	0.60	0.35	4.15	10.21	6.39	3.84	T.	0.26	0.10	0.31	27.46
Pastura	0.45	0.12	0.53	0.00	1.95	4.10	1.66	3.71	0.00	T.	T.	T.	12.52
Pearl (near)	0.02	0.76	0.53	0.00	2.78	6.20	2.06	0.39	1.16	0.00	0.00	0.00	13.90
Pinon (near)	0.80	0.23	0.57	T.	0.64	3.35	4.25	4.79	1.54	0.56	0.24	0.27	17.24
Pinos Altos (near)	0.46	0.78	[0.65]	0.33	1.79	1.47	8.16	2.39	2.17	0.80	0.22	0.77	19.99
Plainview (near)	0.25	0.92	0.39	0.00	1.28	7.07	1.64	0.55	1.89	0.00	T.	0.00	13.99
Pleasant Hill	0.38	[0.37]	0.44	T.	2.32	6.16	6.21	3.37	0.86	0.05	T.	0.00	20.16
Portales (near)	0.35	0.36	0.51	T.	2.87	4.02	6.69	1.68	6.44	T.	0.00	0.00	22.92
Raton (near)	0.85	0.58	0.32	0.44	2.51	3.88	5.49	2.52	0.87	0.20	0.00	0.21	17.87
Red River Canyon	1.13	1.01	1.98	3.24	3.24	4.37	5.16	2.53	1.10	1.00	0.11	0.95	25.82
Redrock	0.45	0.60	0.11	0.10	0.74	0.28	2.57	3.14	0.80	0.35	0.55	0.62	10.31
Regina	.....	.....	.....	.....	0.68	.....	.....	.....	.....	.....	.....	.....	.....
Richland (near)	0.27	0.45	0.10	0.05	2.64	5.68	3.37	3.03	2.33	T.	T.	0.04	17.96
Rio Grande Industrial School	0.12	0.17	0.61	0.02	0.29	3.09	2.38	1.31	T.	0.35	0.00	0.15	8.49
Rociada	0.81	0.72	1.34	0.05	3.94	6.48	7.26	5.68	0.96	0.51	T.	0.27	28.02
Rodeo	0.01	0.78	0.25	T.	[0.20]	[0.31]	3.60	2.68	T.	T.	0.38	T.	8.21
Rosedale (near)	0.22	.....	.....	.....	1.94	0.91	4.42	1.65	1.22	0.31	0.10	0.27	.....
Roswell (Weather Bureau)	0.17	0.47	0.74	0.01	1.49	5.58	2.18	0.77	0.26	T.	T.	T.	11.67
Roswell (No. 2)	0.18	0.58	0.77	0.01	1.57	5.77	2.27	0.77	0.27	T.	T.	T.	12.11
Roy	0.85	0.30	0.34	T.	2.62	5.92	4.74	0.73	T.	T.	T.	0.00	15.50
St. Vrain	0.41	0.50	0.21	0.16	3.31	5.70	3.00	2.39	2.45	0.05	T.	T.	18.18
San Antone Ranger Station	.....	0.34	0.48	0.34	1.52	2.02	1.87	1.28	0.10	0.10	0.40	.....	.....
San Fidel	0.36	0.28	0.20	0.35	0.77	1.50	3.77	2.10	0.10	0.27	0.00	0.65	10.35
San Jon	1.18	0.02	0.27	T.	3.27	6.79	6.06	3.38	0.31	0.33	0.00	T.	21.61
San Marcial	0.38	0.05	0.45	0.15	0.90	0.50	2.75	2.69	1.14	0.30	0.00	0.15	10.46
Santa Fe	1.35	0.33	0.75	0.55	2.35	2.85	3.87	3.71	0.18	0.98	T.	0.88	17.80
Santa Rosa	0.80	T.	0.16	0.00	2.60	3.95	2.98	4.49	T.	0.00	T.	T.	14.98
Schuster Springs Ranger Station	1.33	0.83	0.30	0.71	[0.35]	3.70	6.10	5.47	T.	1.83	0.07	3.33	24.02
Senorito (near)	1.42	1.11	1.15	0.61	0.25	3.41	9.16	2.57	0.76	1.31	T.	1.97	23.72
Servilleta (near)	0.17	0.34	T.	0.23	1.06	1.86	3.96	1.26	0.37	0.66	0.00	0.21	10.12
Silver City	0.13	0.71	0.45	0.30	0.64	0.60	4.42	2.60	2.42	0.20	0.78	0.66	13.91
Skeleton Canyon Ranger Station	.....	.....	.....	.....	.....	.....	5.26	7.82	1.27	1.11	.....	.....	.....
Socorro	0.48	0.14	1.22	0.22	1.23	1.31	5.25	1.79	0.26	0.25	0.10	0.28	12.53
Solano	0.85	0.43	0.45	0.00	2.51	4.40	6.86	1.81	0.00	0.25	0.15	0.00	17.71
Springer	0.65	0.39	0.56	0.00	4.27	4.05	3.70	3.50	0.15	T.	0.00	0.05	17.32
Stanley	0.38	0.34	0.98	0.00	1.65	2.75	3.55	2.17	0.00	0.40	0.00	0.50	12.72
Tajique (near)	1.80	1.32	1.47	0.40	1.95	2.53	4.03	4.80	0.83	0.46	0.12	0.76	20.47
Taos	0.47	0.27	0.41	1.71	1.84	3.50	4.20	1.97	1.01	0.43	0.00	0.29	16.10
Taos Canyon	0.80	0.87	1.46	1.99	1.41	4.95	7.71	2.89	0.73	0.60	0.15	0.94	24.50
Tatum	0.14	0.58	0.03	T.	2.07	7.51	4.24	2.76	1.99	0.04	T.	T.	19.36
Taylor	0.90	0.58	0.83	0.19	3.44	4.77	6.83	2.68	0.00	0.13	0.00	0.16	20.51
Texico (near)	0.46	0.47	0.55	0.00	2.26	8.37	3.71	0.89	3.10	0.00	0.00	0.00	19.81
Three Rivers	0.22	T.	0.67	0.06	0.54	0.77	1.46	1.07	0.80	0.07	T.	0.31	5.97
Tijeras Canyon Ranger Station	0.65	0.81	1.40	1.20	2.52	2.05	1.95	0.68	1.17	1.04	0.00	0.50	13.97
Toadlena	0.92	0.40	0.07	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tohatchi	.....	.....	.....	T.	1.00	0.50	.....	.....	.....	.....	.....	.....	.....
Torrance	0.60	0.37	0.68	T.	1.05	2.50	5.70	0.95	0.90	0.30	0.10	0.01	13.19
Trementina	0.97	0.36	1.61	T.	3.40	4.71	1.85	0.23	0.08	0.18	0.12	0.08	13.59
Tres Piedras	1.15	0.88	T.	0.18	2.20	4.56	4.58	3.29	0.78	0.35	T.	0.63	18.60
Truchas	0.91	0.32	0.63	0.66	1.51	3.62	4.33	2.34	0.90	0.88	0.00	0.64	16.74
Trujillo (near)	0.98	0.88	0.70	T.	3.29	6.78	4.85	1.85	0.00	T.	0.00	T.	19.33
Tucumcari (near)	1.11	0.32	0.83	T.	8.63	5.88	3.56	1.95	0.75	0.21	0.00	0.00	23.24
Tucumcari	1.24	0.23	0.78	0.00	8.82	5.85	4.01	2.49	0.22	0.36	T.	T.	24.00
Tularosa	0.35	0.05	0.40	0.00	0.20	1.77	2.04	1.58	1.02	T.	T.	0.57	8.98
Turney's Ranch	0.17	0.15	0.25	0.12	0.00	1.00	1.50	1.26	0.73	0.16	0.17	0.21	5.72
Tyrone	T.	0.34	T.	0.32	0.75	0.25	5.12	3.50	1.82	0.07	1.27	0.85	14.29
Vallecitos (near)	0.75	1.41	0.25	0.46	1.87	3.51	7.51	3.48	0.49	0.66	0.68	0.67	21.14
Valmora	0.98	0.34	1.65	T.	3.65	6.44	4.48	2.10	0.52	T.	0.00	0.17	20.33
Vance (near)	1.01	0.26	0.25	0.17	2.62	5.65	5.31	1.28	0.79	0.20	0.00	0.18	17.75
Vaughn	0.31	[0.29]	0.68	T.	2.71	5.44	4.39	0.65	0.53	T.	T.	0.04	15.04
Vermejo Park	0.22	.....	.....	.....	1.72	.....	.....	.....	.....	.....	.....	.....	.....
Virsylvia	0.36	0.80	0.58	2.76	3.67	3.44	3.82	3.15	0.08	[1.11]	T.	0.60	20.37
Weed Ranger Station	0.11	0.99	0.49	0.20	1.94	4.97	7.43	5.91	2.36	0.34	0.12	0.68	25.54
White Oaks (near)	0.64	0.17	0.48	T.	1.07	2.64	7.67	2.09	1.71	0.80	0.13	0.08	17.48
White Tail	0.37	0.53	0.89	0.15	1.75	4.23	7.78	4.83	2.05	0.68	0.03	[0.60]	23.89
Willard (near)	.....	.....	.....	.....	.....	.....	4.46	3.30	.....	.....	.....	.....	.....
Winsor's Ranch	1.03	0.50	1.27	1.38	4.15	3.71	9.54	7.91	0.10	1.20	0.03	0.78	31.50
New York.													
Adams Centre	3.30	3.56	7.46	3.78	2.42	3.29	4.31	2.62	2.92	5.74	6.01	2.89	48.30
Addison	0.78	1.82	2.44	2.44	2.81	2.15	3.61	2.68	3.42	1.83	5.27	1.69	30.54
Albany	0.66	2.28	2.80	2.65	1.67	2.69	4.57	2.67	1.44	1.59	5.50	1.19	29.71
Alfred	1.18	1.82	3.25	2.67	3.35	1.94	4.73	2.74	2.77	2.20	6.01	1.30	33.96

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
New York—Continued.													
Amsterdam	0.57	2.20	3.58	2.79	2.31	2.01	4.53	4.02	1.01	2.42	6.83	1.14	33.41
Angelica	1.65	1.29	3.05	3.44	1.29	2.54	5.21	3.21	2.16	2.44	6.29	0.58	33.15
Appleton	0.33	0.97	2.31	3.25	1.62	1.36	1.65	1.51	0.86	3.05	2.42	1.44	20.77
Auburn	0.84	1.25	2.93	1.40	1.62	2.97	2.79	2.06	1.71	2.31	6.42	1.19	27.49
Avon	0.15	1.50	2.21	2.98	1.30	2.30	2.72	2.18	2.01	1.87	5.71	0.15	25.08
Bainbridge	.....	.....	2.18	3.01	3.36	3.29	4.15	5.06	2.38	3.97	7.93	1.63	.....
Ballston Lake	0.53	2.52	2.95	3.14	2.80	1.46	8.30	2.79	1.81	2.53	6.63	1.41	36.87
Bedford Hills	2.90	2.23	3.03	3.38	2.52	3.50	5.81	2.30	1.90	0.90	1.60	3.76	33.83
Binghamton	1.68	3.06	2.79	3.04	3.31	1.50	5.56	2.64	3.20	2.91	5.89	1.75	37.33
Bolivar	2.15	1.45	3.36	2.70	3.62	3.99	3.89	2.88	4.75	3.77	5.45	1.50	39.51
Boyds Corners	2.82	2.95	4.97	5.14	3.00	4.02	5.92	2.58	3.31	1.74	5.50	2.64	44.59
Brockport	0.44	2.67	2.60	2.64	1.51	0.55	3.37	2.10	2.31	2.12	.....	0.54	.....
Buffalo	0.89	2.50	3.40	3.62	2.11	1.52	1.42	1.80	1.96	2.86	3.77	0.86	26.71
Canton	1.22	1.39	3.32	1.53	1.08	1.66	2.20	3.91	3.52	4.90	2.57	1.60	29.00
Cape Vincent	1.15	2.28	4.61	.....	2.36	2.13	1.91	3.33	2.35	2.46	2.80	2.08	.....
Carmel	2.68	2.55	4.20	5.00	2.23	3.62	4.47	3.40	3.47	1.31	5.09	2.38	40.49
Cazenovia	2.04	1.81	3.84	3.79	2.41	3.20	4.45	4.54	1.63	4.57	.....	.....	.....
Chatham	1.01	3.61	2.42	4.58	1.60	2.19	.....	.....	.....	.....	.....	.....	.....
Chazy	0.13	1.32	0.69	1.86	1.66	1.72	2.92	3.36	.....	4.66	1.90	0.65	.....
Copenhagen	.....	.....	.....	.....	.....	2.16	1.87	2.53	2.84	2.90	2.61	.....	.....
Corinth	1.48	2.02	3.06	.....	.....	.....	.....	.....	.....	.....	.....	2.28	.....
Cooperstown	1.51	2.42	3.09	4.38	1.51	2.70	.....	.....	2.72	3.28	5.64	1.42	.....
Cortland	1.58	1.59	3.16	3.56	2.42	2.08	9.51	3.11	3.07	2.83	6.30	1.42	40.63
Cutchogue	3.89	3.31	4.30	3.21	3.33	2.88	5.80	3.60	1.46	1.19	5.52	2.97	41.46
Dannemora	2.65	3.29	2.48	2.43	0.58	3.51	4.83	2.70	1.81	4.54	5.24	4.33	38.39
Dansville	0.30	1.03	2.12	1.46	1.14	1.81	2.56	2.70	3.21	1.16	3.99	0.40	21.88
De Ruyer	1.77	2.12	3.58	3.53	2.42	2.70	8.48	3.57	2.27	3.54	6.54	1.57	42.09
Dolgeville	2.05	1.80	1.36	3.80	2.77	2.43	5.24	2.93	1.86	3.46	8.12	2.35	38.17
Effley Falls	.....	.....	.....	.....	.....	2.93	4.20	2.55	2.73	4.42	2.97	.....	.....
Elmira	0.96	1.99	2.96	1.36	3.67	1.87	2.72	5.55	2.95	1.90	4.63	1.24	31.80
Farmingdale	2.74	3.94	3.63	3.56	4.85	5.08	6.71	4.76	2.41	1.09	4.50	2.48	45.75
Flushing	2.57	4.46	2.69	3.59	4.30	2.94	3.11	4.92	3.36	0.89	3.88	2.49	39.20
Fredonia	2.34	2.80	4.15	4.90	2.70	2.39	3.71	2.07	3.44	4.06	6.75	1.73	41.04
Gabriels	2.60	3.09	4.75	2.64	0.75	3.46	3.69	2.74	2.89	4.65	5.80	.....	.....
Geneva	0.77	3.25	2.90	2.72	0.85	3.28	2.11	1.75	1.57	1.66	7.30	1.25	29.41
Glens Falls (No. 1)	1.75	1.86	3.81	2.65	1.81	3.61	5.67	2.37	3.02	2.54	5.84	2.27	37.25
Glens Falls (No. 2)	1.35	2.15	3.69	3.09	2.07	3.36	4.71	2.53	1.94	2.51	5.89	2.07	35.36
Gloversville	1.03	2.34	4.39	3.79	2.46	2.33	5.60	3.38	3.06	2.84	6.90	1.65	39.77
Greenfield Center	4.25	2.35	3.05	1.79	1.83	2.80	6.00	3.50	2.51	2.54	5.87	2.11	38.60
Harkness	0.30	1.46	1.85	1.97	0.77	1.87	2.98	1.26	1.23	2.26	3.11	0.20	19.26
Haskinville	0.74	1.75	1.98	2.43	1.38	2.59	4.19	2.56	5.18	.....	5.01	1.49	.....
Hemlock	0.62	1.87	1.03	3.00	1.33	2.35	2.29	2.60	2.22	1.86	4.95	1.01	25.13
Hoffmeister	3.31	3.23	5.63	5.31	2.77	3.95	9.15	3.98	4.25	5.03	8.56	3.01	58.18
Homestead Sanatorium	1.43	2.08	4.30	3.23	1.61	3.36	9.44	3.40	4.28	3.12	.....	.....	.....
Hoosick Falls	1.01	1.95	3.09	2.41	1.63	6.00	5.04	3.36	1.45	2.19	5.45	1.07	34.65
Hudson	1.65	3.30	2.81	4.61	1.81	2.04	4.34	3.32	1.81	1.71	5.72	1.40	34.52
Indian Lake	2.55	2.52	5.54	3.49	1.45	2.65	6.44	2.70	3.79	4.49	4.01	2.30	41.93
Ithaca	1.21	1.82	3.03	2.50	2.74	1.85	4.49	3.86	2.52	2.27	4.66	1.43	32.47
Jeffersonville	2.19	3.79	2.90	4.39	2.62	2.73	4.51	3.22	3.28	2.99	7.00	2.07	41.69
Lake Colden	.....	.....	.....	1.94	0.61	4.55	4.51	3.04	3.50	5.30	6.02	3.71	.....
Lake Placid Club	1.99	2.98	3.09	2.17	0.18	.....	2.94	1.97	1.16	3.23	3.81	2.32	.....
Lauterbrunnen	0.46	2.66	1.79	3.38	1.31	2.64	2.17	2.77	4.02	1.85	2.95	0.97	26.97
Little Falls (No. 1)	1.42	3.06	4.23	3.67	2.23	2.90	4.66	2.93	2.02	2.93	6.16	1.44	37.65
Little Falls (No. 2)	1.79	2.63	4.52	4.47	2.15	2.83	3.84	2.74	1.94	3.07	6.78	1.87	38.63
Lockport	0.13	1.63	2.41	3.31	1.72	1.31	1.44	2.04	1.68	3.18	.....	1.67	.....
Lowville	2.07	2.55	4.82	3.45	2.33	2.22	2.68	1.27	1.26	3.64	4.14	2.95	33.38
Lyons Falls	.....	.....	.....	.....	.....	.....	.....	1.46	2.12	3.32	5.38	.....	.....
Mechanicsville	0.42	1.47	1.92	3.41	2.08	1.76	5.05	4.20	0.93	2.87	5.73	1.06	30.90
Medford	4.14	4.04	3.76	4.74	5.24	3.72	5.26	4.31	1.22	1.45	5.31	2.72	45.91
Mohonk Lake	0.97	5.16	6.06	6.20	2.73	1.00	4.95	3.35	4.63	1.72	5.01	1.94	43.72
Moira	1.38	2.41	3.10	1.23	2.03	3.16	1.45	3.49	3.08	4.32	2.00	0.87	28.52
Morrisville	1.07	1.60	2.15	3.35	1.85	2.76	3.96	5.42	1.92	2.70	6.08	1.65	34.51
Mount Hope	3.48	3.09	2.97	5.30	5.11	5.73	5.28	4.96	2.88	1.14	4.50	2.62	47.06
Mount McGregor	1.57	2.14	3.43	2.24	1.85	2.04	4.51	3.42	2.86	2.15	4.40	1.19	31.80
Mount Vernon	3.14	4.37	3.21	4.52	4.78	3.71	3.14	5.44	3.90	0.86	4.13	3.34	44.54
New Berlin	2.55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.37	.....
New Lisbon	1.10	2.44	3.25	3.12	2.23	5.49	6.62	3.43	2.82	3.33	6.45	1.71	41.99
New York City	1.65	4.90	2.21	2.88	3.45	3.25	3.10	3.87	2.96	0.74	3.48	1.89	34.38
North Lake	3.18	2.86	6.47	4.63	2.02	3.91	8.77	3.07	5.14	4.19	6.65	3.54	54.43
North Rose	0.49	1.88	2.03	3.51	2.13	2.25	2.11	2.30	1.25	2.76	5.59	0.87	27.17
Northville	1.75	2.48	3.93	.....	.....	.....	.....	.....	.....	.....	.....	2.06	.....
Norwich	1.18	2.67	3.33	3.01	1.89	3.01	5.81	1.92	2.39	2.81	5.90	1.22	35.14
Ogdensburg	0.69	0.60	2.14	2.75	0.67	1.43	2.18	2.22	1.58	3.84	1.57	1.79	21.46
Old Forge	.....	.....	.....	.....	.....	3.35	4.22	1.83	4.05	3.95	3.36	.....	.....
Oneonta	0.90	2.16	2.71	3.19	2.09	1.31	7.02	4.19	2.18	3.36	6.61	1.21	36.93
Oswego	0.60	2.06	3.12	2.01	2.58	0.80	2.04	1.49	1.45	2.93	5.27	1.43	25.78
Palermo	1.54	2.38	3.57	2.92	1.85	1.00	4.05	1.31	1.69	3.45	6.86	2.08	32.70
Penn Yan	.....	.....	.....	1.75	1.32	2.75	3.02	1.94	2.62	1.61	5.87	1.43	.....
Perrysburg	1.85	2.19	3.60	3.90	2.40	2.37	4.90	4.74	3.82	3.47	4.67	2.02	39.93
Philadelphia	1.38	1.85	5.22	2.48	2.42	3.07	1.89	3.99	1.29	4.75	3.55	2.86	34.75
Port Jervis (No. 1)	2.31	3.90	3.67	2.97	2.55	3.88	2.17	3.21	3.11	1.61	5.01	2.15	36.54
Port Jervis (No. 2)	2.08	3.96	2.70	3.47	.....	3.55	2.11	3.07	2.49	1.51	4.92	1.98	.....
Raquette Lake	3.32	4.24	5.32	4.11	2.15	3.40	4.64	2.56	2.41	4.07	5.34	2.92	44.48
Rhinebeck	1.56	3.18	4.95	5.23	2.04	3.56	3.28	3.68	3.96	1.75	5.05	1.66	39.90
Rochester	0.52	2.95	3.61	2.58	1.50	0.83	3.95	2.60	1.69	2.02	4.63	1.25	28.13
Romulus	.....	2.33	3.37	1.49	0.99	1.45	2.10	2.22	2.42	0.96	8.55	1.13	.....
Roslyn	2.71	3.24	2.10	3.50	4.77	3.20	5.47	7.21	1.86	0.88	4.61	3.31	42.86
Roxbury	1.65	3.24	3.38	4.27	3.02	3.19	.....	.....	3.74	3.14	7.15	2.41	.....
Salisbury	2.52	1.95	4.62	3.98	2.11	3.42	6.00	3.72	4.36	4.03	6.84	1.98	45.53
Scarsdale	3.65	3.35	3.28	4.71	4.52	5.13	3.94	4.57	2.78	0.97	5.84	2.27	45.01
Setauket	3.16	3.72	3.52	3.95	4.10	3.24	6.76	5.26	1.84	1.13	4.88	2.66	44.22
Sharon Springs (No. 1)	1.22	3.16	3.77	3.37	2.99	3.61	4.31	4.03	0.90	2.95	7.11	1.74	39.16
Sharon Springs (No. 2)	1.86	2.99	2.64	3.25	2.20	3.67	4.68	5.08	0.74	2.25	7.23	1.47	38.06
Sherburne	1.83	2.39	3.05	3.01	2.68	2.97	3.91	3.54	3.92	4.30	5.61	1.22	38.43
Shortsville	0.38	1.84	3.50	2.67	1.33	3.45	2.21	1.56	1.27	1.78	4.33	0.52	24.84
Silver Bay	1.67	1.85	2.61	3.40	.....	.....	.....	2.57	2.01	2.51	4.15	.....	.....
Skaneateles	1.60	1.70	4.11	2.90	1.99	2.64	3.07	2.91	1.94	3.62	6.68	1.84	35.00

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
New York—Continued.													
Southeast Reservoir	2.76	3.02	3.46	4.55	2.37	3.39	5.79	2.16	3.69	1.25	4.52	2.25	39.21
Spier Falls	1.02	2.07	2.28	2.25	2.65	2.54	3.79	2.49	4.04	3.57	6.21	2.33	35.24
Stillwater Reservoir	.....	.....	.....	.....	2.89	4.77	7.45	3.44	3.11	4.53	4.83	.....	.....
Syracuse	1.02	2.47	2.92	2.90	2.27	3.83	4.44	2.39	1.55	3.10	6.58	0.95	34.42
Townsend	0.65	1.75	2.24	2.18	2.25	2.29	3.95	2.41	5.62	1.94	4.96	.....	.....
Trenton Falls	2.40	2.33	5.14	3.68	1.92	3.98	5.81	2.77	2.90	3.99	6.95	2.03	43.90
Tribes Hill	1.60	1.50	2.87	3.97	2.32	1.95	3.40	2.43	1.28	2.20	6.69	2.05	32.26
Troy	.....	.....	2.80	2.40	0.82	1.77	4.41	1.72	1.47	2.55	4.99	0.95	.....
Utica (No. 1)	1.54	1.78	3.20	.....	.....	.....	.....	.....	.....	.....	.....	1.06	.....
Utica (No. 2)	1.56	1.41	2.35	2.17	2.16	3.25	4.12	3.52	1.51	3.46	7.26	1.44	34.21
Walton	1.61	2.99	2.93	2.94	3.32	3.11	5.50	4.07	3.16	3.68	8.48	2.25	44.04
Wanakena	2.09	2.19	.....	2.28	1.46	1.67	5.51	3.07	1.83	4.51	4.75	1.95	.....
Wappingers Falls	2.01	3.92	2.98	4.44	2.02	3.14	4.99	3.08	3.53	2.30	6.52	1.60	40.53
Warwick	2.13	3.61	2.72	2.20	2.98	3.92	4.25	1.99	2.45	2.19	5.65	2.32	36.41
Watertown	1.68	1.80	6.19	2.32	1.63	2.95	4.08	2.62	2.65	4.25	5.13	2.84	38.14
West Berne	0.46	2.89	3.81	4.33	3.37	4.91	6.28	3.97	1.23	2.26	6.14	1.33	40.98
West Point	6.05	4.85	.....	5.54	1.84	3.07	4.00	2.43	4.40	2.95	5.55	3.40	.....
York	0.65	2.00	3.16	2.32	1.27	1.87	1.89	2.12	1.71	1.95	5.19	0.82	24.95
North Carolina.													
Albemarle	5.26	4.53	1.97	3.42	6.30	1.73	2.94	4.31	2.39	3.13	3.83	2.86	42.67
Altapass	3.75	3.40	2.30	6.80	2.81	5.81	7.80	6.10	3.10	5.50	2.50	2.50	52.37
Andrews	3.90	5.24	3.15	5.25	6.15	4.31	7.46	6.71	3.81	2.82	9.08	5.20	63.08
Asheville	3.35	3.85	2.12	2.97	2.85	4.74	5.15	2.86	1.57	2.25	2.31	1.38	35.40
Banners Elk	2.35	2.90	2.95	3.85	4.46	5.83	11.15	6.44	2.97	4.50	2.50	2.27	52.17
Beaufort	5.04	5.23	1.67	4.23	6.05	0.69	8.58	4.99	1.75	2.40	4.27	3.68	45.58
Belhaven	3.90	5.30	6.21	1.17	6.97	1.05	3.35	4.65	2.17	2.60	2.10	1.95	44.42
Brevard	5.07	5.16	1.93	4.65	5.53	5.99	8.74	5.28	3.39	4.16	4.69	3.91	58.50
Brewers	4.24	3.77	2.07	5.66	4.75	5.87	7.54	3.64	0.96	6.94	2.62	2.31	50.37
Bryson City	4.61	6.30	2.05	4.92	3.88	2.91	8.03	6.07	2.46	1.51	6.68	3.11	52.53
Caroleen	6.20	5.51	1.83	2.74	4.32	4.67	3.98	3.70	6.14	4.40	4.00	1.75	49.24
Chapel Hill	3.74	3.49	3.74	2.72	5.00	1.59	1.00	0.67	2.14	1.65	3.38	3.05	32.17
Charlotte	5.22	4.61	1.84	1.99	4.50	1.33	5.55	2.78	2.55	1.76	4.02	2.66	38.81
Cullowhee	3.75	5.63	2.29	3.23	3.33	4.57	3.43	8.89	3.09	1.39	4.48	2.59	46.67
Durham	3.97	2.43	3.31	1.67	3.30	1.62	2.41	0.70	1.60	1.28	3.01	4.25	29.55
Eagletown	3.38	2.70	3.15	4.66	5.84	1.42	3.10	2.06	4.52	0.85	3.03	3.63	38.34
Edenton	2.05	4.50	5.50	4.00	10.08	4.00	3.15	2.50	5.32	0.90	2.65	3.40	48.05
Elizabeth City	1.50	4.47	2.95	3.15	7.35	2.45	5.90	4.43	1.18	0.45	1.87	3.45	39.15
Elizabethtown	3.21	3.06	3.91	3.22	2.74	3.75	6.95	1.45	2.45	2.55	3.62	0.87	37.78
Elkin	4.23	3.79	1.60	6.09	3.65	2.26	3.34	1.97	2.44	3.95	3.25	1.57	38.14
Ellijay	5.38	6.53	3.20	4.32	4.67	4.54	7.11	6.41	5.67	2.11	4.91	3.36	58.21
Enfield	3.77	2.74	3.37	2.91	4.12	2.65	2.70	2.46	2.91	1.80	2.43	3.08	34.94
Fayetteville	3.69	5.03	5.09	4.49	5.54	4.59	6.40	1.14	2.03	1.65	2.86	2.03	44.54
Goldsboro	3.47	4.85	3.95	5.74	9.95	3.81	5.82	2.73	2.17	2.48	3.50	2.27	50.74
Gorge	5.13	3.77	2.03	6.59	3.61	3.47	11.41	3.74	3.83	6.04	3.17	3.21	56.00
Graham	5.81	4.58	3.23	2.60	3.14	0.91	4.27	1.22	2.25	1.35	3.63	2.37	35.36
Greensboro	4.37	3.73	2.01	3.12	4.07	3.01	4.78	1.77	2.90	1.25	3.96	2.30	37.27
Greenville	2.20	3.95	3.35	4.55	3.10	1.31	4.20	1.50	3.27	1.50	2.88	2.94	34.75
Hatteras	1.65	3.52	1.18	4.85	3.80	3.56	6.89	5.32	5.03	5.07	4.73	1.95	47.55
Henderson	3.20	2.72	2.53	1.23	3.17	3.40	2.37	0.62	2.81	1.42	2.70	2.62	28.79
Hendersonville	5.53	5.34	3.02	5.34	4.82	4.24	6.07	4.16	5.88	2.97	3.87	2.93	54.17
Hickory	6.27	5.16	1.55	4.82	2.04	3.87	7.95	3.31	3.80	6.12	2.40	2.40	49.69
Hiddenite	6.93	4.86	1.65	5.86	2.30	1.83	4.99	3.11	5.41	5.74	2.59	1.39	48.66
Highlands	6.72	9.37	3.75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
High Point	.....	.....	.....	.....	.....	.....	6.45	0.49	4.54	2.89	2.55	2.22	.....
Hot Springs	3.44	3.99	2.65	4.17	4.36	3.97	7.74	5.73	3.88	2.02	3.88	1.68	47.51
Jefferson	3.85	4.27	2.96	4.30	4.08	1.78	4.95	5.13	3.48	4.53	2.72	1.83	43.88
Lenoir	4.66	3.62	1.76	5.59	3.11	2.34	3.93	3.84	2.32	4.27	2.21	1.82	39.47
Lincolnton	6.11	5.11	1.64	2.51	3.88	4.11	4.59	2.66	1.99	3.96	2.61	1.79	40.96
Louisburg	4.68	3.42	3.97	2.99	5.72	0.41	5.36	0.87	0.85	2.95	2.62	3.24	37.08
Lumberton	2.83	4.32	3.67	2.38	5.46	3.46	6.07	2.32	1.85	1.48	4.11	1.26	39.21
Manteo	1.50	4.04	2.06	6.00	4.38	2.26	8.94	3.12	1.26	1.23	1.89	3.46	40.14
Marion	6.69	4.49	2.94	5.92	2.37	6.38	5.23	5.53	2.93	7.76	3.57	3.17	56.98
Marshall	2.93	4.24	1.70	4.66	3.62	2.65	9.62	5.10	3.00	1.35	2.90	1.10	42.87
Moncure	4.52	3.97	2.63	3.87	3.38	2.66	4.72	2.07	0.92	1.17	2.69	2.50	35.10
Monroe	4.84	5.45	3.56	2.47	6.02	4.15	3.69	3.67	1.15	1.39	3.20	1.67	41.26
Montreat	5.22	5.26	2.80	4.94	5.45	5.84	6.09	3.86	4.23	3.51	3.79	2.17	53.16
Morganton	6.50	4.59	2.00	3.92	1.59	2.77	6.09	3.11	2.18	3.61	2.47	1.93	40.76
Mount Airy	4.95	4.00	1.44	5.41	3.83	5.13	6.47	1.67	2.92	5.85	2.89	1.53	46.09
Mount Holly	4.42	5.18	2.07	3.48	4.28	1.66	4.92	3.30	2.54	2.39	4.16	3.06	41.46
Murphy	3.92	6.83	2.30	5.10	4.07	2.64	6.63	6.00	4.42	1.49	7.74	4.31	55.45
Nashville	3.39	3.48	3.84	4.89	4.20	0.54	5.96	1.41	1.55	2.39	2.33	3.06	37.01
Newbern	3.42	3.99	3.05	4.73	4.26	2.45	8.13	6.15	2.19	1.70	2.41	1.48	43.96
New Holland	2.24	5.70	3.80	4.07	2.82	1.55	5.60	6.82	2.26	3.23	1.59	2.16	41.84
North Wilkesboro	.....	.....	.....	.....	.....	.....	.....	.....	2.11	7.00	3.42	2.14	.....
Neuse	3.96	3.49	3.39	2.22	4.65	2.35	3.05	1.69	1.89	1.71	2.81	2.73	33.94
Oxford	3.56	3.83	4.09	1.41	3.64	3.66	3.49	1.27	3.60	1.30	2.13	2.28	34.26
Parker	3.98	4.17	2.04	3.31	3.94	2.74	5.50	5.00	2.18	3.81	3.75	1.74	42.16
Pinehurst	3.46	3.66	3.14	6.24	3.79	5.36	4.10	2.20	1.52	1.93	2.10	1.35	38.85
Raleigh (Weather Bureau)	3.97	3.52	3.91	2.12	4.09	1.14	2.67	1.62	3.01	1.05	2.13	2.86	32.09
Raleigh (No. 2)	3.38	3.35	3.63	2.24	4.70	1.09	3.46	1.35	3.73	1.12	3.21	3.00	34.26
Randleman	5.83	5.06	2.48	3.41	3.85	3.12	3.76	1.53	2.57	1.20	3.95	2.18	38.94
Red Springs	3.08	4.56	4.37	4.56	4.65	2.73	5.34	2.79	0.78	0.61	2.84	2.79	39.10
Reidsville	5.02	3.68	1.40	3.88	3.88	3.60	1.86	0.81	3.84	1.74	3.07	1.22	34.00
Rock House (No. 1)	5.28	9.93	3.29	6.86	5.90	5.60	4.43	6.36	7.54	3.34	7.50	6.83	72.86
Rock House (No. 2)	5.38	9.86	2.34	7.44	5.02	6.94	3.71	4.75	8.27	3.46	6.22	5.42	68.83
Rockingham	3.99	4.68	4.06	5.26	4.52	4.50	3.75	1.46	1.31	0.82	2.19	1.23	37.77
Rocky Mount (No. 1)	3.81	2.86	3.34	3.62	3.75	0.45	3.04	1.29	3.16	1.85	2.45	3.01	32.63
Rocky Mount (No. 2)	2.31	2.92	3.74	3.95	4.60	0.82	5.19	0.79	1.96	2.65	.....	.....	.....
Rougemont	2.80	3.12	2.65	1.80	4.15	1.40	3.95	0.73	2.71	1.87	3.45	1.95	30.58
Salisbury	5.55	5.03	1.65	3.94	4.02	0.88	2.19	1.03	4.55	2.12	2.98	3.20	37.14
Sanatorium	2.63	4.59	4.22	2.60	2.26	2.20	6.83	1.34	1.87	2.46	2.84	1.24	35.08
Scotland Neck	3.08	2.36	2.83	3.40	4.48	1.79	2.27	1.79	1.90	0.80	4.12	3.52	32.35
Settle	5.78	4.02	2.29	4.89	4.94	3.18	4.84	2.01	5.19	4.17	2.09	1.42	44.83
Siler City	4.96	4.00	1.94	2.40	3.47	3.69	6.09	2.03	3.06	2.00	2.63	2.78	36.05
Sloan	5.32	3.40	2.92	3.97	5.73	1.64	9.87	4.44	2.70	1.59	1.57	1.46	44.63

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
North Carolina—Continued.													
Smithfield	3.21	3.75 4.80	3.25	5.80	4.26	3.46	3.27	2.60	0.93	2.70	2.75	1.78	37.76
Southern Pines	2.60	4.17	3.40	3.01	3.89	2.45	5.15	1.70	1.00	2.00	3.20	1.35	34.55
Southport	8.78	.....	3.54	6.58	7.38	2.32	16.02	4.90	1.14	4.64	2.43	1.79	63.69
Statesville (No. 1)	.....	4.87	.....	.....	4.01	1.23	4.71	2.18	3.47	3.62	2.37	.....	.....
Statesville (No. 2)	6.03	4.53	2.20	2.97	3.92	1.65	4.06	2.81	4.16	3.18	2.10	1.83	39.78
Statesville (No. 3)	5.40	4.33	1.25	3.30	3.88	3.20	2.44	1.75	2.89	2.81	2.53	1.50	35.48
Statesville (No. 4)	5.97	4.61	1.22	2.39	4.03	2.73	1.81	2.41	2.81	3.95	1.95	1.60	35.20
Statesville (No. 5)	6.65	.....	1.31	5.20	3.69	2.18	3.47	2.54	3.85	5.39	2.28	1.14	42.31
Swansboro	.....	3.34	.....	.....	.....	.....	.....	.....	7.20	1.52	2.26	1.30	.....
Tarboro	2.37	6.29	3.26	3.30	5.07	0.90	5.28	1.15	1.49	1.22	4.27	2.38	34.03
Tryon	3.60	3.50	.....	2.95	6.27	3.36	4.00	3.23	3.74	2.58	1.30	.....	.....
Walstonburg	3.11	4.38	3.27	4.58	4.64	1.70	1.88	1.75	1.64	2.58	.....	.....	.....
Washington	2.14	2.59	4.05	5.15	4.25	3.87	2.25	2.29	3.80	1.40	1.39	1.48	36.45
Weldon	3.54	4.50	2.81	2.85	4.18	4.16	3.28	1.59	2.36	0.90	2.29	3.92	34.47
Wenona	2.51	3.43	3.86	4.05	6.57	2.37	8.34	3.87	4.91	1.31	2.16	2.48	46.93
Willard	.....	3.32	3.29	3.94	5.52	5.38	7.90	4.69	3.73	2.51	1.51	1.34	.....
Wilmington	4.16	4.42	1.44	4.94	6.87	2.92	11.17	3.50	1.86	2.82	2.22	1.54	46.76
Winston-Salem	4.40	.....	1.72	3.28	2.14	1.02	2.54	2.13	2.91	1.88	3.49	1.24	31.17
North Dakota.													
Amenia	0.20	0.30 T.	0.45	1.61	4.14	2.56	2.81	3.75	3.87	0.62	0.43	1.60	22.34
Amidon	0.12	0.30	1.15	1.26	1.70	2.06	1.70	1.74	2.61	0.37	1.52	0.25	14.48
Arnegard	0.20	0.20	1.37	2.39	2.03	4.88	2.17	0.52	3.08	T.	0.40	0.62	17.96
Ashley	0.40	0.26	1.87	4.72	2.60	0.91	5.37	6.64	4.34	1.57	1.00	0.80	30.42
Beach	0.33	0.12	0.65	1.31	0.94	6.82	3.21	0.25	1.03	0.37	0.98	0.81	16.96
Berthold Agency	0.11	0.15	0.66	1.83	3.43	5.99	0.59	0.72	3.24	0.06	0.29	0.38	17.42
Bismarck	0.12	0.39	1.00	2.40	2.72	0.92	2.18	0.18	1.67	1.58	0.84	0.29	14.05
Bottineau	0.10	0.35	0.28	1.63	3.02	2.74	1.09	3.16	4.70	0.69	0.38	0.20	18.38
Bowbells	0.12	0.30	0.47	1.04	3.59	5.49	2.69	0.89	2.80	0.33	0.51	0.00	18.28
Bowman	0.30	0.40	0.55	0.55	2.13	0.93	1.83	1.07	1.95	0.05	0.43	0.16	10.25
Cando	0.09	0.10	0.93	1.94	1.33	1.80	5.09	1.91	5.53	1.48	0.39	0.13	21.02
Carson	0.30	0.30	0.71	1.53	3.60	1.09	1.02	0.38	2.44	0.96	0.97	0.50	13.60
Cooperstown	0.10	0.36	0.80	1.90	1.45	3.90	3.37	3.62	4.55	0.70	0.20	0.35	21.24
Crosby	0.11	0.46	0.30	2.24	2.44	6.18	3.19	1.64	2.65	0.09	0.49	0.40	20.04
Devils Lake	0.13	0.35	0.71	2.17	1.03	4.70	4.49	5.63	3.58	1.31	0.43	0.75	25.39
Dickinson	0.23	0.43	1.01	1.02	1.78	3.09	1.61	2.73	2.15	0.13	1.05	0.61	15.76
Donnybrook	0.10	0.16	1.16	2.31	1.94	5.06	3.58	0.73	2.16	0.55	2.06	T.	20.08
Dunn Center	0.03	0.04	1.35	1.35	1.69	6.14	2.13	0.18	1.98	T.	0.45	0.82	16.28
Dunseith	0.04	0.36	0.07	1.80	4.13	2.70	0.63	3.58	3.71	0.70	0.62	0.34	18.36
Eckman	0.10	0.16	1.06	1.70	2.38	2.56	0.80	1.30	3.67	0.44	0.54	0.30	15.21
Edgeley	0.10	0.25	0.99	1.69	3.31	5.76	2.61	1.27	4.01	0.62	0.30	0.31	21.13
Ellendale	0.16	0.52	1.56	1.66	4.53	3.40	5.84	2.19	5.78	0.72	0.65	0.28	27.02
Energy	0.05	0.18	0.65	1.64	1.78	2.55	3.32	0.29	2.79	0.29	0.54	0.50	14.92
Epping	0.05	0.40	0.31	1.60	5.62	6.30	2.10	0.05	2.86	0.03	0.31	0.27	19.68
Fessenden	0.43	.....	0.91	3.13	1.75	4.90	3.41	1.46	4.17	1.70	1.40	1.04	24.70
Forman	.....	0.25	.....	.....	.....	.....	.....	1.19	3.88	0.54	0.90	0.20	.....
Foxholm	0.09	0.30	0.57	1.38	1.83	3.28	2.36	0.62	3.04	0.56	0.69	0.03	14.70
Fryburg	0.20	0.49	1.09	1.36	1.62	4.40	2.20	3.04	2.10	0.04	1.50	0.59	18.44
Fullerton	0.37	0.38	2.69	2.19	4.17	3.40	6.08	1.97	4.31	0.83	1.12	0.95	28.57
Garrison	0.21	0.44	1.48	2.08	1.94	2.36	2.89	1.22	3.60	0.76	0.59	0.54	18.05
Grafton	0.35	0.77	0.87	1.23	1.05	3.67	4.22	2.83	3.06	0.66	0.40	0.52	19.30
Grand Forks	0.38	0.27	0.74	1.72	1.68	2.54	4.08	2.53	2.44	0.50	0.36	0.47	18.21
Granville	0.10	0.49	2.23	2.53	1.83	1.22	1.45	3.81	0.72	1.10	0.23	15.98	
Hannah	0.70	1.10	0.90	1.09	4.31	1.91	2.67	2.38	3.53	1.72	0.80	0.60	21.71
Hansboro	T.	0.23	1.10	1.84	3.12	1.38	5.82	3.30	3.75	1.22	0.70	0.30	22.76
Hettinger	0.12	0.40	0.66	0.27	2.64	1.47	0.57	0.23	1.62	0.02	0.80	0.42	9.22
Hillsboro	0.30	0.30	0.85	1.59	3.32	4.03	2.59	2.13	3.21	0.65	0.59	0.25	19.81
Howard	0.30	0.34	0.57	3.18	4.21	6.09	1.76	0.65	3.21	0.04	1.25	0.20	21.80
Jamestown	0.35	0.16	1.02	3.36	1.48	5.02	6.25	1.86	4.93	2.75	0.60	0.67	28.45
Lamoine	T.	0.40	0.80	1.77	2.43	3.57	3.66	0.82	2.21	1.54	0.10	0.30	17.60
Langdon	0.20	0.40	0.35	1.45	2.68	2.55	4.19	2.49	4.59	0.58	1.10	0.20	20.78
Larimore	0.32	0.83	0.87	2.50	2.84	5.90	10.00	5.71	2.78	0.95	0.34	0.74	33.78
Linton	0.26	0.09	0.90	2.54	1.46	0.75	1.92	0.60	2.83	2.65	0.53	0.27	14.80
Lisbon	0.20	0.25	0.82	0.57	2.95	1.31	4.85	2.72	3.52	0.08	0.05	0.80	18.12
McClusky	0.20	0.60	2.20	2.96	1.93	4.18	2.91	0.33	2.02	1.24	1.05	0.55	20.17
McKinney	0.15	0.55	0.45	0.65	3.45	3.38	2.50	1.60	3.20	0.80	0.65	T.	17.38
McLeod	0.29	0.59	1.53	2.20	3.64	4.15	3.93	3.46	4.53	0.56	0.60	0.39	25.97
Maddock	T.	0.70	0.90	2.41	1.47	5.76	5.63	2.27	4.84	1.78	0.26	0.22	26.24
Mandan	0.19	0.16	0.79	2.52	2.59	1.35	3.38	0.25	1.58	1.39	0.87	0.24	15.31
Manfred	0.05	0.42	1.21	2.91	2.95	5.93	3.80	1.70	3.47	1.61	0.75	0.61	25.41
Marmarth	0.30	0.14	1.38	0.88	1.22	3.99	2.04	1.63	1.51	0.07	1.03	0.52	14.71
Mayville	0.27	0.47	1.35	2.05	3.78	3.02	1.95	1.52	1.70	0.55	0.30	0.55	17.51
Millville	0.10	0.30	1.55	1.62	1.06	4.84	4.40	5.94	3.06	1.15	0.70	0.55	25.27
Minot	0.30	0.50	1.80	1.85	1.49	2.69	2.49	0.77	4.36	0.51	0.74	0.17	17.67
Minto	0.15	0.60	0.54	1.57	2.10	4.00	6.95	3.46	3.73	0.73	0.54	0.37	24.74
Mott	0.52	0.14	1.27	0.56	1.44	3.76	1.09	0.34	1.37	0.05	1.32	0.57	12.43
Napoleon	0.15	0.17	0.70	2.29	1.19	2.65	2.07	1.74	2.89	1.78	0.50	0.40	16.53
New England	0.75	0.05	0.65	0.87	1.85	2.46	1.05	0.95	2.25	0.02	1.25	T.	12.15
New Salem	0.18	0.20	1.46	2.16	2.28	1.27	1.39	0.89	2.12	0.42	0.83	0.33	13.53
Park River	0.09	0.42	0.33	1.78	1.08	4.10	5.94	2.32	3.71	0.81	0.16	0.16	20.90
Parshall	T.	T.	T.	1.26	3.79	5.68	2.20	1.34	3.22	0.00	0.30	0.20	17.99
Pembina	0.20	1.12	1.00	0.97	1.50	2.91	0.90	5.56	6.83	0.33	0.40	0.20	21.92
Pettibone	0.15	0.36	1.80	2.26	2.26	0.82	3.08	4.41	3.62	1.83	0.39	0.60	21.58
Power	0.25	0.76	1.30	2.47	2.23	1.15	5.72	3.12	3.14	0.50	0.63	0.65	21.92
Powers Lake	0.20	0.55	0.87	2.14	1.80	7.65	3.04	0.22	2.45	0.18	0.95	0.05	20.10
Skaar	0.12	0.12	1.35	1.93	1.48	6.12	1.54	0.03	2.54	0.01	0.90	0.35	16.49
Steele	0.40	0.39	1.62	2.05	1.63	1.80	2.00	1.57	2.87	2.20	0.25	0.14	16.92
Taylor	0.30	0.35	0.04	0.63	2.09	4.38	0.37	2.24	1.99	0.08	1.14	0.41	14.02
Towner	0.30	0.30	0.30	2.22	1.66	3.40	1.62	2.48	4.80	0.58	1.00	T.	18.66
Turtle Lake	0.64	0.54	2.05	1.68	1.66	6.58	3.92	0.63	3.24	0.63	0.40	0.25	22.22
Valley City	0.17	0.47	2.01	3.14	3.97	2.74	4.41	4.09	3.28	0.46	0.75	0.32	25.81
Wahpeton	0.25	0.80	1.12	1.65	3.50	1.41	5.93	2.36	4.46	0.84	0.63	0.38	23.33
Walhalla	0.80	1.30	0.75	1.39	1.53	1.97	5.12	3.32	3.55	0.71	0.83	0.24	21.51
Westhope	0.24	0.42	0.26	0.77	2.64	3.44	1.86	2.81	3.83	0.48	0.30	0.17	17.22
Williston	0.15	0.39	1.21	1.66	2.08	5.68	2.35	0.40	2.43	0.10	0.65	0.33	17.43
Willow City	0.20	0.97	0.86	1.93	2.68	1.96	1.38	1.25	4.01	0.46	0.65	0.39	16.74

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Ohio.													
Akron	1.98	3.02	5.49	3.17	4.21	3.20	3.48	3.90	4.77	2.12	5.13	1.28	41.75
Amesville	2.53	1.28	4.99	2.13	3.65	4.27	2.45	5.60	8.74	1.53	5.95	4.02	47.14
Ashland	1.90	2.16	7.00	3.42	2.55	2.00	3.31	2.02	3.07	0.97	6.05	1.75	36.20
Bangorville	3.04	2.57	7.84	5.83	4.64	5.70	0.56	2.51	5.16	1.79	7.53	4.62	51.79
Batavia	1.21	1.66	4.06	4.14	3.73	3.18	2.59	6.51	3.84	1.67	4.54	4.33	41.46
Bellefontaine	1.32	1.98	6.19	4.37	4.02	2.73	2.12	2.14	2.30	2.03	6.72	1.63	37.55
Bellpoint	2.31	1.75	7.00	5.52	2.70	3.28	2.44	3.76	2.49	2.33	5.70	2.73	42.01
Benton Ridge	2.20	1.82	5.56	7.11	3.42	1.22	2.29	1.30	2.86	3.15	3.87	2.08	36.88
Beverly	3.19	1.66	4.32	3.03	4.23	6.21	3.58	4.29	8.31	0.82	5.17	3.76	48.57
Bowling Green	.....	0.99	4.72	4.44	3.31	1.24	3.64	2.52	2.46	1.94	2.78	1.30	.....
Brilliant	4.52	2.19	4.94	2.81	3.62	3.22	1.81	5.39	6.30	1.37	4.62	5.14	45.93
Bucyrus	2.49	1.83	6.21	5.41	2.46	2.38	3.07	2.53	4.80	2.04	6.92	1.96	42.10
Cadiz	3.83	2.15	4.12	3.45	3.21	3.11	6.43	5.31	5.04	1.46	5.42	3.56	47.09
Cambridge	4.01	3.89	6.73	2.59	4.48	3.97	2.51	4.53	3.85	0.85	5.07	4.25	46.73
Canfield	2.78	0.99	3.20	3.72	2.18	3.09	5.49	2.09	4.94	2.69	5.51	1.81	38.49
Canton	2.80	2.01	5.27	3.33	2.53	2.86	3.95	2.95	3.87	2.00	5.23	2.40	39.20
Catawba Island	1.88	1.78	4.91	3.10	2.02	1.81	2.39	2.64	3.21	0.76	3.77	1.83	30.10
Chillicothe	2.20	2.08	5.12	5.11	4.10	2.61	2.43	6.35	4.92	1.56	5.29	4.28	46.05
Chilo	2.20	2.12	7.33	3.11	1.87	1.56	.....	6.75	3.58	1.38	8.17	5.61	.....
Cincinnati (Abbe Observatory)	1.72	2.25	6.60	3.19	2.79	2.35	4.28	6.02	3.00	2.72	5.67	4.86	45.45
Cincinnati (Government Building)	1.56	2.25	6.01	3.24	3.70	3.11	3.08	6.48	2.80	2.66	6.04	5.23	46.16
Circleville	2.71	2.51	7.55	5.88	3.38	3.90	1.66	4.43	3.49	1.61	6.20	4.76	48.08
Clarington	4.73	2.75	4.62	2.78	4.74	5.69	2.52	6.70	6.68	2.72	9.91	4.75	58.59
Cleveland (Weather Bureau)	1.53	2.19	4.39	2.58	1.51	2.38	3.52	3.32	2.77	2.91	3.93	1.75	32.78
Cleveland (St. Ignatius)	1.27	1.98	5.20	2.87	1.72	2.72	5.05	3.38	3.17	3.41	4.00	1.51	36.37
Columbus	2.19	1.90	7.66	4.11	2.67	2.06	2.20	4.55	2.05	1.86	5.50	3.74	40.49
Coshocton	3.37	2.64	5.51	4.79	2.72	2.95	2.82	5.99	6.14	1.20	7.41	3.92	49.46
Dam No. 28, Ohio River	2.63	2.15	3.57	3.03	4.50	2.55	4.51	5.50	4.00	3.54	7.78	4.54	48.30
Danbury	2.41	1.89	5.48	3.03	2.32	0.92	2.49	3.29	3.19	1.63	3.81	1.58	32.04
Dayton (Weather Bureau)	2.59	2.25	7.41	3.42	2.26	1.13	1.34	3.30	4.75	1.79	4.88	3.48	38.60
Dayton (McCook Field)	.....	.....	7.84	3.93	2.50	0.81	.....	.....	.....	.....	.....	.....	.....
Dayton (Boyer)	2.62	2.19	8.31	4.57	3.04	1.06	1.36	3.35	4.90	2.15	5.98	4.08	43.61
Delaware	2.08	1.39	6.40	3.58	1.86	0.94	1.42	1.81	2.03	2.19	4.77	3.22	31.69
Demos	4.57	2.35	5.40	3.31	3.95	3.14	3.17	6.98	8.47	1.11	7.10	4.09	53.64
Dennison	3.28	2.49	5.86	2.84	2.99	2.53	2.79	4.48	5.61	1.50	5.79	3.54	43.70
Dover	2.24	2.11	5.13	3.51	3.57	2.22	2.81	5.39	3.46	1.53	5.71	2.79	40.47
Dublin	2.06	1.65	7.46	4.08	2.68	1.21	1.23	4.45	2.37	1.93	5.24	2.67	37.03
Eaton	.....	.....	7.67	4.58	1.84	3.69	2.64	5.10	4.06	3.31	5.85	3.44	.....
Fernbank	2.06	2.30	6.43	3.13	2.61	3.58	3.59	4.25	2.85	3.12	7.42	5.05	46.39
Findlay	2.29	1.20	3.16	4.76	2.37	1.54	2.82	4.86	3.79	2.74	2.53	1.00	33.06
Frankfort	1.93	1.99	6.26	3.14	4.26	2.75	2.28	4.96	2.14	1.67	4.79	5.02	41.19
Fremont	1.58	1.71	4.83	4.57	3.89	4.09	2.06	3.42	6.98	1.71	4.32	2.13	41.29
Gallipolis	2.87	2.33	2.73	2.48	3.74	2.16	2.61	5.34	2.48	0.99	6.47	4.89	39.08
Germantown	2.79	2.41	8.06	4.01	1.69	1.25	1.84	4.77	4.48	2.06	6.77	4.04	44.77
Granville	2.36	1.96	6.38	4.60	4.33	2.27	1.95	5.67	2.54	.....	5.43	3.78	.....
Green	4.60	2.78	4.78	1.76	5.44	4.62	4.50	5.54	5.67	1.87	7.10	5.68	54.34
Greenfield	2.19	1.93	7.48	3.69	3.80	2.01	3.01	8.39	3.79	2.09	5.40	5.03	48.81
Green Hill	2.14	2.01	4.49	4.19	2.99	1.90	3.18	2.79	4.06	1.51	4.30	2.01	35.57
Greenville	2.52	1.56	8.65	4.58	2.64	2.11	3.07	3.45	4.06	2.91	7.28	.....	.....
Hamilton	2.55	2.60	6.68	4.27	2.25	2.51	1.66	2.99	5.13	3.17	5.92	4.92	44.65
Haydenville	2.51	1.94	5.98	2.44	6.02	4.10	2.42	.....	.....	.....	5.53	.....	.....
Hillsboro	1.79	2.32	7.52	2.93	2.64	2.08	2.35	6.79	5.24	1.40	6.73	5.43	47.22
Hiram	2.38	2.53	4.96	2.57	2.18	1.74	3.34	3.94	3.93	2.83	6.27	1.90	38.57
Hudson	1.83	2.75	6.55	3.65	1.75	3.70	5.53	5.20	3.99	4.15	5.81	2.39	47.30
Ironton	2.79	3.04	4.53	2.82	3.56	4.84	1.51	6.21	5.62	2.10	6.49	5.94	49.45
Jackson	2.38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.94	.....
Kenton	1.35	2.05	7.70	5.64	3.11	1.47	0.82	1.38	5.05	2.53	6.10	2.56	39.76
Kings Mills	2.52	2.62	7.19	4.83	.....	2.03	3.08	6.37	4.77	2.25	5.63	5.96	.....
Kinsman	1.86	1.90	3.97	3.15	3.79	1.74	4.71	3.63	2.92	3.34	6.02	1.40	38.46
Lakeview	2.36	1.30	7.42	3.91	2.53	3.00	1.42	2.41	3.67	3.36	5.62	1.51	38.51
Lancaster	3.11	2.25	7.42	4.20	5.45	5.47	3.81	5.94	4.25	1.43	5.30	4.62	53.25
Larue	1.79	1.74	6.29	4.23	2.98	2.65	1.27	2.40	2.53	2.85	6.91	2.92	38.56
Lima	2.21	1.55	6.54	3.80	3.27	2.75	0.45	2.64	2.98	3.26	4.73	2.80	36.98
London	2.78	2.38	7.82	5.43	4.58	2.10	1.08	4.47	2.80	2.78	6.35	3.26	45.83
McArthur	3.44	2.12	5.16	2.76	4.30	1.85	3.00	6.14	5.19	1.21	5.28	4.41	44.86
McConnelsville	3.62	1.89	5.83	2.40	4.24	2.93	4.33	4.36	7.00	1.13	5.59	4.92	48.24
Madison	1.60	2.08	4.49	3.01	1.88	1.68	0.85	4.60	3.67	3.62	5.42	1.07	33.97
Mansfield	2.48	2.44	7.05	4.58	2.73	1.89	1.99	2.42	3.79	1.78	5.94	2.31	39.40
Marietta (No. 1)	3.76	1.77	5.00	2.87	4.13	4.60	5.32	4.47	6.87	1.69	6.56	4.23	51.27
Marietta (No. 2)	4.55	2.14	4.95	3.62	4.63	4.48	5.74	4.38	6.42	1.76	7.78	4.28	54.73
Marietta Experiment Farm	3.55	1.71	4.61	2.99	3.94	3.58	3.75	3.27	4.27	1.78	6.27	3.77	43.49
Marion	2.32	2.20	7.87	3.88	2.67	1.55	2.79	2.06	3.85	3.11	6.89	3.33	42.52
Marysville	2.32	2.10	8.12	4.46	2.91	1.11	1.31	5.32	3.36	2.75	7.13	3.10	43.99
Medina	1.83	3.02	6.48	3.90	3.15	3.10	3.11	2.82	4.19	2.62	4.84	1.94	41.00
Middleport	3.20	2.20	4.54	2.18	3.69	2.30	3.20	4.28	5.27	2.58	6.20	5.61	45.25
Milferdton	.....	.....	.....	.....	2.36	3.48	1.28	.....	2.58	1.38	6.51	.....	.....
Millersburg	2.01	1.87	7.01	4.33	2.60	1.77	2.34	2.54	3.93	1.32	6.65	2.54	38.91
Milligan	3.72	2.31	6.06	.....	.....	.....	.....	.....	5.86	1.43	5.93	.....	.....
Millport	2.28	1.71	4.43	4.45	3.77	3.03	4.36	3.86	3.65	1.58	5.43	2.20	40.75
Milton Dam	2.12	2.28	4.35	2.99	1.68	2.65	5.46	2.49	5.06	1.88	5.74	1.75	38.45
Montpelier	2.31	1.65	3.85	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mount Healthy	2.02	2.01	6.52	4.26	2.60	2.22	1.67	4.22	3.54	3.30	6.68	5.60	44.64
Mount Vernon	2.17	1.60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mulberry	2.18	2.32	7.13	5.24	3.65	3.29	2.92	5.83	.....	.....	.....	.....	.....
Napoleon	2.21	1.80	5.17	5.17	4.43	1.59	3.21	3.35	3.48	2.70	3.93	1.97	39.01
New Bremen	1.94	1.19	5.82	3.16	2.74	2.34	0.86	2.43	3.24	3.15	4.06	2.35	33.28
New Carlisle	2.30	2.06	8.26	4.77	2.87	2.39	1.68	5.43	.....	2.89	5.91	2.69	.....
North Bass Island	0.86	1.15	3.57	3.30	3.62	1.39	1.15	2.54	2.32	1.88	2.50	0.90	25.18
North Royalton	1.64	1.55	4.18	4.83	2.70	3.48	4.00	.....	5.03	3.57	5.50	1.70	.....
Norwalk	2.20	2.09	6.16	3.28	2.19	2.98	3.93	3.22	4.55	1.80	4.47	1.87	38.74
Oberlin	1.51	2.16	4.95	2.51	2.22	2.93	2.47	3.46	5.78	2.34	5.25	1.61	37.19
Octa	.....	.....	.....	.....	.....	4.80	3.04	4.12	2.33	1.56	5.29	4.38	.....
Ohio State University	2.15	1.77	7.88	4.34	2.57	3.73	0.97	4.78	2.46	2.18	7.14	3.59	43.55
Ottawa	1.90	1.48	6.19	4.69	6.50	2.05	2.20	2.97	3.90	3.38	4.23	1.98	41.47
Oxford	2.57	2.49	7.49	5.93	2.61	2.15	1.80	4.77	4.46	3.73	8.15	5.10	51.25
Pataskala	3.26	2.12	7.98	4.26	4.31	2.01	1.55	6.10	4.07	1.81	6.44	4.09	48.00
Paulding	1.86	1.26	4.82	3.90	3.40	2.17	2.27	4.04	3.46	3.92	4.26	2.03	37.39

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Ohio—Continued.													
Peebles	3.35	2.83	5.61	4.10	1.77	4.75	8.80	7.87	8.03	1.91	6.90	5.59	61.51
Philo (No. 1)	3.46	2.43	5.27	2.21	3.99	4.27	5.79	4.21	5.29	1.27	4.97	3.32	46.48
Philo (No. 2)	3.43	2.62	6.12	2.71	3.43	5.73	6.70	4.24	4.29	0.95	4.76	4.68	49.66
Piqua	3.32	1.74	8.08	5.41	3.97	3.46	3.58	3.84	4.81	2.71	7.62	4.36	52.90
Portsmouth (No. 1)	3.12	1.80	4.66	2.83	2.14	3.44	4.95	6.78	5.87	1.18	7.46	6.03	50.26
Portsmouth (No. 2)	3.06	2.16	4.06	2.72	2.91	2.82	4.36	6.57	6.62	1.32	7.33	6.56	50.49
Prospect	2.25	3.97	.....	5.28	2.51	2.05	3.28	2.38	3.03	3.02	6.04	2.95	.....
Put-in-Bay	1.19	1.50	4.49	2.91	2.88	2.04	3.90	3.12	2.70	1.81	3.10	1.35	30.99
Saint Paris	3.36	1.97	7.35	4.94	5.04	5.36	2.39	4.37	3.43	2.55	8.00	2.64	51.40
Sandusky	1.59	1.91	4.07	2.65	2.28	1.73	3.26	3.49	5.04	1.54	3.18	1.55	32.29
Sidney	2.14	1.57	8.37	4.36	5.54	5.67	2.24	4.31	3.24	3.13	5.96	3.22	49.75
Springfield (No. 1)	1.45	.....	8.71	4.66	3.14	2.90	1.77	3.87	3.50	2.91	6.74	3.27	.....
Springfield (No. 2)	1.68	2.97	7.30	4.17	3.81	3.04	2.58	3.32	.....	.....	.....	3.65	.....
Summerfield	4.53	2.35	5.99	3.42	4.39	3.11	5.82	6.15	7.44	0.92	6.54	4.76	55.42
Tiffin	1.68	2.52	5.37	4.25	2.66	3.27	2.32	2.85	3.90	1.79	4.48	2.34	37.46
Tiltonville	2.53	1.72	3.61	1.72	2.78	3.41	3.52	4.28	5.14	1.84	4.66	3.34	38.55
Toboso	2.74	2.32	6.56	4.04	3.71	4.01	1.18	6.37	5.08	1.52	5.48	4.22	47.23
Toledo	1.53	1.43	5.15	5.34	3.97	1.34	2.86	2.71	2.90	1.80	3.34	1.66	34.03
Upper Sandusky	2.22	1.68	5.91	6.48	3.02	1.06	1.06	0.73	3.42	2.27	5.06	2.37	35.28
Urbana	3.04	2.28	7.73	4.85	3.45	5.34	4.71	4.68	3.88	1.90	6.96	2.88	51.70
Valley Crossing	2.40	2.12	7.82	4.85	3.39	2.16	2.93	5.26	3.47	2.16	6.47	4.13	47.16
Versailles	2.32	1.23	7.77	4.49	2.69	4.86	2.49	4.01	4.35	3.10	5.42	3.18	45.91
Vickery	1.54	1.37	4.97	3.86	1.26	2.45	2.38	3.21	6.64	1.61	3.96	1.83	35.08
Walhonding	.....	1.02	6.84	4.91	.....	2.98	2.68	3.34	4.59	1.48	5.41	4.43	.....
Wapakoneta	1.65	1.28	5.98	3.26	6.13	3.47	0.63	2.11	4.39	3.08	4.97	2.38	39.33
Warren	2.67	2.89	4.70	2.52	2.58	1.13	3.63	3.15	4.34	2.18	6.54	1.97	38.30
Washington Courthouse	2.26	.....	6.53	3.59	2.47	.....	.....	.....	.....	.....	.....	.....	.....
Wauseon	1.08	0.91	4.42	4.37	3.71	2.44	1.69	3.47	3.49	3.07	3.12	1.77	33.54
Waverly	2.65	2.06	5.77	3.01	2.93	4.43	4.55	5.93	5.86	2.43	6.33	4.71	50.66
Waynesville	2.16	2.12	6.30	5.69	1.63	2.14	3.19	4.99	3.37	1.79	6.08	4.74	44.20
West Manchester	2.45	1.85	7.45	6.25	2.65	1.81	4.60	4.00	6.30	3.25	7.43	3.80	51.84
West Milton	1.91	.....	7.04	5.06	2.75	1.98	3.23	4.54	3.93	2.89	6.46	2.96	.....
Wickliffe	1.96	2.59	5.26	3.96	1.38	1.03	2.81	3.21	3.08	3.60	5.76	1.44	36.08
Williamsfield	1.24	2.00	3.30	3.40	4.06	2.60	2.31	3.33	4.02	3.40	6.66	1.23	37.55
Wilmington	3.98	2.58	8.13	5.70	1.75	3.20	2.23	8.28	3.32	3.23	5.39	6.10	53.89
Wooster (No. 1)	2.00	2.41	6.26	4.28	3.42	2.77	2.92	1.85	6.35	1.58	5.70	2.36	41.90
Wooster (No. 2)	1.89	2.13	6.77	3.95	2.56	2.76	2.34	1.63	4.80	1.21	5.54	2.11	37.69
Xenia	2.62	2.40	5.93	4.33	2.77	.....	.....	3.09	.....	0.69	4.40	3.54	.....
Youngstown	.....	1.72	2.85	3.19	.....	2.83	2.21	2.86	.....	2.03	4.34	.....	.....
Zanesville	2.52	2.15	5.30	4.16	3.61	3.46	5.56	5.14	3.71	1.17	4.55	3.92	45.25
Oklahoma.													
Ada	2.50	3.00	5.42	6.24	3.95	8.27	1.89	1.50	1.76	0.05	1.30	1.23	37.11
Altus	0.76	1.32	1.53	2.27	0.78	6.26	0.53	1.16	1.67	0.02	T.	0.02	16.32
Alva	1.39	0.60	1.54	2.60	1.09	9.27	2.88	3.01	2.72	0.02	0.00	0.09	25.21
Antlers	.....	2.89	.....	6.07	.....	.....	.....	1.86	3.46	0.18	3.15	2.60	.....
Apache	1.31	1.69	2.34	3.52	1.82	7.84	2.58	0.24	3.47	0.02	0.12	0.31	25.26
Arapaho	2.78	1.10	1.30	4.01	1.36	8.83	2.40	1.38	2.02	0.00	0.00	T.	25.18
Ardmore	1.57	1.92	4.61	3.18	1.81	3.95	2.91	0.48	1.79	T.	1.31	0.87	24.40
Bartlesville	2.76	0.28	3.68	3.58	1.72	6.11	1.99	2.50	6.46	0.41	0.42	0.57	30.48
Beaver	0.85	1.50	T.	0.82	1.48	2.95	3.81	1.19	1.76	0.13	T.	0.55	15.04
Billings	3.09	0.40	1.87	2.97	2.37	12.74	3.37	0.91	5.88	0.10	T.	0.07	33.77
Blackwell	4.16	T.	2.35	2.23	1.24	4.90	3.78	1.93	7.62	0.30	0.00	0.02	28.53
Bristow	2.47	1.60	4.23	3.61	1.25	9.39	1.17	.....	.....	0.35	0.74	0.60	.....
Broken Arrow	1.29	1.56	6.21	8.87	1.47	10.86	0.63	4.81	2.60	0.40	1.28	1.04	41.02
Broken Bow	.....	2.18	2.75	7.91	3.29	12.55	7.04	1.00	2.21	1.73	4.84	2.61	.....
Buffalo	0.85	1.00	0.68	1.70	2.44	6.06	3.09	2.83	3.45	T.	0.00	0.50	22.60
Calvin	.....	2.60	3.84	6.56	0.55	7.97	2.95	0.49	0.44	0.04	1.44	1.22	.....
Camargo	.....	.....	1.55	2.45	1.40	7.00	3.15	2.10	.....	.....	.....	.....	.....
Canton	3.94	0.35	1.66	3.38	0.70	9.15	2.27	3.30	3.20	0.16	0.00	T.	28.11
Carnegie	1.18	0.62	1.94	1.74	1.74	10.55	4.43	0.64	3.96	T.	0.00	0.09	26.89
Chandler	1.75	1.40	4.18	2.82	1.82	8.89	1.28	2.13	2.47	0.51	0.80	0.37	28.42
Chattanooga	1.39	0.98	1.14	1.78	1.26	6.41	3.23	0.67	2.67	T.	T.	0.52	20.05
Cherokee	1.61	0.30	2.38	4.70	1.67	7.37	1.58	1.91	1.51	.....	0.00	0.00	.....
Chickasha	2.04	1.60	2.82	1.79	1.90	6.88	5.80	0.80	2.78	0.12	0.36	0.29	27.18
Claremore	1.97	1.04	7.59	6.44	2.39	12.49	0.48	5.32	2.75	0.48	1.20	1.59	43.74
Cleveland	2.33	1.69	4.77	3.53	2.93	7.28	1.04	0.74	4.70	0.46	0.56	0.33	30.36
Cloud Chief	1.51	1.26	2.17	1.81	3.61	10.29	2.09	0.63	5.26	T.	0.00	T.	28.63
Durant	2.23	3.61	3.33	5.02	2.31	6.11	4.62	1.78	2.56	0.29	4.59	1.51	37.96
Enid	3.86	0.53	1.92	3.24	2.97	11.46	.....	1.46	3.64	6.70	0.27	.....	.....
Erick	2.32	0.70	1.64	2.55	1.46	13.51	1.22	0.86	1.99	T.	T.	T.	26.25
Eufaula	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.26	2.33	1.50	.....
Fort Gibson	1.39	1.63	5.53	4.60	1.66	12.42	0.70	2.16	1.82	0.31	1.43	1.68	35.33
Fort Reno	1.64	1.43	2.40	1.90	2.50	6.47	3.35	0.83	4.30	0.12	T.	T.	24.94
Frederick	0.64	1.15	2.02	1.26	1.79	6.65	0.44	0.73	4.38	0.00	0.00	0.21	19.27
Geary	2.50	1.45	1.87	2.79	3.91	8.12	2.71	0.95	5.12	0.10	0.09	0.03	29.64
Goodwell	0.94	0.85	T.	1.48	4.02	2.33	5.68	1.36	T.	0.25	T.	T.	16.91
Guthrie	1.70	1.19	3.29	2.82	1.69	6.02	2.18	1.84	5.29	0.25	0.10	0.26	26.63
Hammon	2.00	1.04	2.05	1.74	2.30	6.65	1.75	1.33	2.89	T.	T.	0.02	21.77
Healdton	2.24	2.15	3.75	3.50	3.38	8.01	2.07	2.42	0.10	T.	0.56	0.92	29.10
Hennessey	2.34	0.40	1.41	2.34	0.62	5.64	.....	1.12	1.11	T.	0.22	T.	.....
Hobart	1.37	0.95	1.20	1.68	1.80	6.57	0.99	1.12	3.22	T.	T.	0.02	18.92
Holdenville	2.46	1.97	5.57	6.29	0.82	8.12	0.77	0.97	0.47	0.38	1.05	1.32	30.19
Hooker	0.68	0.70	0.05	1.50	3.06	3.54	4.94	2.12	0.05	0.18	T.	0.26	17.08
Hugo	2.67	4.80	4.30	5.60	1.24	8.26	4.07	3.20	1.57	0.70	4.07	2.81	43.29
Hurley	1.83	1.00	1.60	1.27	4.13	4.57	4.24	1.48	0.37	1.12	T.	0.20	21.81
Jefferson	.....	.....	.....	.....	1.78	6.66	4.32	.....	4.57	0.03	0.00	0.09	.....
Kenton	1.63	0.72	0.59	0.75	2.50	4.75	5.46	1.75	1.01	0.69	0.01	0.29	20.15
Kingfisher	2.23	0.95	2.00	2.63	1.95	5.83	3.23	0.96	3.87	0.10	0.13	0.07	23.95
Lawton	1.40	2.19	2.20	2.65	2.07	6.64	2.34	1.07	2.53	0.06	0.00	0.45	23.60
Lawtonka Lake	.....	0.99	.....	.....	.....	6.01	.....	.....	1.80	0.00	T.	0.35	.....
McAlester	2.14	1.93	3.86	5.05	2.27	7.85	0.68	3.69	4.40	0.19	3.66	2.85	38.57
Mangum	1.52	1.10	1.82	2.72	2.46	8.65	0.53	0.60	2.63	0.00	0.00	0.00	22.03
Marlow	2.47	2.04	1.35	3.29	4.21	7.13	6.19	0.21	0.93	0.06	1.12	0.13	29.13
Meeker	2.63	1.68	5.26	2.17	3.35	7.75	1.90	1.45	2.57	0.42	0.70	0.48	30.36
Miami	2.51	0.24	6.05	4.75	1.49	7.09	1.51	4.69	2.74	0.55	1.57	1.54	34.73

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Oklahoma—Continued.													
Minco									4.57	0.10	0.02	0.06	
Muskogee	1.38	2.74	5.98	4.99	1.15	11.02	0.39	2.89	1.49	0.47	1.26	1.62	35.38
Mutual	1.85	1.10	1.75	2.36	0.65	8.47	2.75	6.58	1.22	T.	0.00	T.	26.73
Newkirk	3.06	0.58	2.43	3.47	1.37	6.99	1.66	3.15	6.60	0.47	0.20	0.60	30.58
Norman	2.52	1.13	1.90	4.53	2.38	11.25	2.99	1.16	3.11	0.15	0.42	0.08	31.62
Oakwood	3.85	0.90	1.28	4.80	1.77	8.24	2.71	2.15	3.73	0.08	T.	T.	29.51
Okay	1.48	1.90	6.64	4.65	2.36	10.10	0.28	3.68	1.88	0.40	1.26	1.47	36.10
Okeene	3.10	1.10	1.31	3.25	1.29	7.59	2.07	2.85	3.80	0.37	0.00	0.05	26.78
Okemah	1.35	1.23	4.65	6.17	1.36	5.57	0.98	2.41	1.92	0.97	0.97	1.46	29.04
Oklahoma City	2.29	1.23	1.93	2.39	1.85	3.80	4.43	0.85	3.79	0.18	0.33	0.18	23.25
Okmulgee	1.70	1.80	5.74	6.53	0.99	7.19	2.00	3.52	1.21	0.31	1.14	0.08	32.21
Pauls Valley	2.45	1.50		3.67	3.10	9.15	2.88	0.96	0.47	0.05	1.77	0.79	
Pawhuska	2.39	0.34	2.82	2.65	1.85	5.58	2.82	1.36	6.75	0.52	0.73	0.25	28.06
Perry	2.20	1.10	3.08	4.19	4.42	6.82	1.40						
Poteau	1.72	6.39	4.25	6.09	2.31	8.01	3.74	4.74	3.20	0.46	9.24	2.83	52.98
Ravia	1.02	2.20	3.05	5.39	1.75	7.94	4.38	0.78	2.94	0.00	3.42	1.01	33.88
Reno Junction			1.70	1.84	4.43	7.34	3.03	0.76	7.83	0.30			
Sallisaw		2.37		6.04	0.89	9.05			1.80				
Shattuck						9.96	0.44	3.14	2.09	0.00	0.00	0.05	
Shawnee	1.82	1.53	4.83	3.26	2.71	7.14	2.60	0.19	1.25	0.35	0.99	0.32	26.99
Stillwater	1.74	0.92	4.84	5.87	3.06	9.14	3.23	1.06	6.43	0.41	0.23	0.17	37.10
Sulphur	1.66	2.17	4.91	4.27	2.80	8.00	3.90	2.83	0.78	0.05	1.11	1.06	33.54
Tahlequah	2.83	2.02	6.10	5.46	1.06	13.92	0.65	4.81	1.61	0.48	1.17	1.88	41.99
Tamaha	2.54	3.52	4.98	5.05	0.57	10.05	1.32	4.70	1.69	0.18	4.05	2.21	40.86
Tulsa	2.09	1.15	6.46	3.23	1.69	13.57	0.17	2.73	2.51	0.56	1.42	1.12	36.70
Tuskahoma	1.35	3.58	3.72	7.16	0.96	9.56	0.95	2.75	3.47	0.41	5.11	2.27	41.29
Vinita	2.19	0.95	5.99	5.11	2.45	8.08	2.81	4.35	4.20	0.22	1.29	1.46	39.10
Waukomis	3.65	0.50	1.53	3.52	1.34	8.65	0.96	3.25	4.89	T.	T.	0.15	28.44
Waurika	1.35	3.49	2.11	2.96	2.17	5.52	1.85	0.88	1.10	0.05	0.71	0.28	22.37
Weatherford	2.03	0.95	2.49	2.85	2.83	9.48	2.55	0.62	3.88	0.05	0.04	0.03	27.80
Webbers Falls	1.71	2.57	3.46	5.57	1.00	10.94	1.28	3.06	2.10	0.31	2.00	2.95	36.95
Wichita National Forest	0.61	0.70	2.69			8.23	1.85			0.00		T.	
Wilburton		2.65	3.34	6.64	2.49	13.53	2.51	4.35	1.77	0.52	4.13	3.04	
Woodward	1.86	1.02	1.70	1.85	1.55	8.00	3.15	6.85	2.90	0.05	0.00	0.30	29.23
Wyandotte	1.19	0.30	7.53	5.94	1.11	7.55	2.30	4.05	1.51	0.20	0.65	1.19	33.52
Oregon.													
Agness	13.37	11.15	4.55	1.83	2.61	0.98	0.00	0.00	1.52	3.86	6.00	3.74	49.61
Albany	6.72	6.59	4.82	1.91	1.14	0.98	0.04	-0.05	2.82	3.94	12.50	3.08	44.59
Andrews	1.05	0.49	0.50	0.22	1.58	0.46	0.02	0.03	0.41	0.24	0.41	0.85	6.26
Anna Spring	10.85	6.56	5.34	3.69	4.63	1.58	0.05	0.16	2.71	4.43		1.96	
Ashland	3.84	2.76	1.71	1.93	3.41	0.28	0.00	0.20	0.21	0.91	3.72	1.59	20.56
Astoria	18.03	14.53	8.88	8.95	2.52	5.08	0.30	1.26	3.72	7.02	15.95	7.45	93.69
Baker	2.21	1.35	0.50	0.66	2.99	0.81	0.08	0.18	0.80	0.27	2.47	0.97	13.29
Bear Creek	1.67	1.85	0.54	0.91	2.67	1.61	0.03	0.09	0.79	0.50	1.60	0.81	13.07
Bear Valley	3.03	2.20	0.73	2.38	2.09	0.32	0.60	0.65	0.89	0.84	2.37	0.66	16.76
Beech Creek	2.82	2.22	1.22	1.20	1.51	1.36	0.07	1.45	0.81	1.01	1.67	1.09	16.43
Bend	1.86	2.24	0.53	0.31	2.74	0.20	0.05	0.53	0.30	0.24	3.22	0.77	12.99
Big Eddy	1.83	2.95	1.90	0.18	0.28	0.21	0.03	0.00	0.63	0.75		1.09	
Blitzen	3.19		1.09	0.18	2.02	0.39	T.	T.	0.07	T.	0.23	1.06	
Brookings	14.89	11.34	6.81	3.92	4.52	4.19	0.00	0.10	2.39	6.58	15.02	5.72	75.48
Burns	2.56	1.62	1.15	0.41									
Butte Falls	7.05	7.21	3.35	1.90	4.47	1.01	T.	0.00	0.93	2.20	7.89	1.95	37.96
Cascade Locks	14.02	13.69	11.55	7.58	1.27	3.17	0.15	0.73	5.12	6.54	18.54	7.37	89.73
Cascadia	9.31	11.37	6.57	7.45	2.22	3.42	0.25	0.69	5.00	3.73	19.14	3.85	73.00
Cazadero	10.33	10.80	6.15	5.81	2.46	1.77	0.31	0.30	3.39	5.22	14.65	4.79	65.98
Chiloquin	1.94	2.79	1.50	0.46	2.12	0.34	T.	0.00	0.30	0.97	3.38	1.53	15.33
Clarno							0.00	0.00	0.80	0.62	2.78	0.63	
Condon	2.34	2.19	1.13	1.31	1.07	1.27	T.	0.56	0.84	1.49	4.01	1.38	17.50
Coquille River Lighthouse	10.39	9.43	4.56	3.96	2.83	2.65	0.03	0.12					
Cornucopia	11.06	5.67	4.23	5.34	4.89	1.24	0.14	0.89	1.94	2.57	11.40	4.10	53.47
Corvallis	7.15	5.38	4.23	1.99	1.47	0.94	0.00	0.08	1.99	3.63	10.71	3.48	41.05
Cottage Grove	6.54	6.45	3.53	3.45	1.92	1.41	0.03	0.11	1.80	2.83	10.41	3.56	42.04
Cove	3.42	3.07	1.96	2.79	2.74	0.79	0.18	0.38	1.69	1.32	5.40	1.68	25.42
Crescent				0.68	3.19								
Dayville	1.46	1.37	0.48	1.03	2.18	0.79	T.	0.54	0.41	0.40	1.84	0.64	11.14
Deadwood	17.45	14.56	10.49	7.76	2.32	2.80	0.00	0.14					
Detroit	9.75	7.83	8.79	5.95	3.52	1.80	T.	0.35	4.80	5.85	18.82	5.60	73.06
Doraville	10.38	8.46	6.33	4.17	1.88	2.11	0.13	0.68	3.28	3.53	12.36	5.36	58.67
Drain	6.80	6.99	2.80	3.05	1.56	1.04	0.00	0.02	1.70	2.82	10.48	2.75	40.01
Drewsey	2.95	1.89	1.47	0.70	2.99	0.35	0.14	0.38	1.01	0.47	1.23	1.16	14.74
Dufur	1.95	2.66	1.07	0.57	0.86	0.62	T.	0.08	0.72	0.70	6.55	1.70	17.48
Echo	1.47	2.21	0.25	0.62	0.59	0.54	0.02	0.28	0.47	0.62	3.41	0.88	11.36
Eugene	5.71	6.02	2.38	2.40	1.31	1.68	0.00	0.05	2.51	2.75	8.41	3.38	36.60
Fergusons Ranch	1.93	2.15	0.56	0.86	0.44	0.62	0.80	0.25	0.89	1.09	2.81	0.91	13.31
Fish Lake	9.62	7.64	3.11	5.53	5.66	1.27	0.00	T.	0.85	1.85	7.56	2.22	45.31
Florence	13.53	10.58	5.54	6.20	2.81	4.42	0.00	0.54	3.10	7.04	13.25	4.33	71.34
Foothills Orchard	3.82					0.02	0.00		0.00	1.00	4.20	0.87	
Forest Grove	9.50	6.92	6.81	1.73	1.59	1.21	0.02	0.12	2.10	4.77	10.79	3.88	49.44
Fremont	1.30	1.77	0.76	0.33	2.12	0.44	0.13	0.00	0.60	0.20	1.55	1.84	11.04
Government Camp	12.25	15.58	9.62	11.12	2.12	4.21	0.77	0.25	5.60	7.31	23.79	8.74	101.36
Grants Pass	4.53	4.41	2.09	0.73	1.47	0.37	0.00	0.00	0.17	2.77	3.79	1.81	22.14
Gumboot	6.17	1.59	2.56	3.35	4.46	1.50	0.57	0.59	1.29	1.10	4.26	1.06	28.50
Harper	1.69	1.01	0.32	0.09	2.11	1.08	T.	0.05	0.54	0.15	0.59	1.22	8.85
Headworks	14.24	14.49	9.97	7.45	3.10	4.12	0.43	1.17	4.97	5.57	21.38	5.06	91.95
Heppner	0.72	2.26	0.54	1.27	0.99	0.91	0.00	0.40	0.95	1.12	3.19	0.37	12.72
Hermiston	1.11	2.07	0.16	0.52	0.41	0.57	0.05	0.18	0.42	0.70	2.89	0.74	9.82
Hilgard	3.57	3.56	2.03	2.81	2.62	1.43	0.22	0.22	1.13	1.97	5.65	1.99	27.14
Hillcrest Orchard	4.47	3.88	1.07	1.27	3.05	0.22	0.00		0.05	0.97	3.96	1.20	
Holloway Orchard	3.51	3.46	0.80	1.07								4.34	
Hood River	6.40	6.31	4.41	1.58	0.30	0.25	0.06	T.	1.37	2.97	12.32	1.97	37.94
Howardville	5.68	3.65	3.32	3.29	2.22	0.93	0.42	1.09	2.10	1.06	6.47	2.26	32.49
Ibex Mine	8.79	5.48	2.75	3.53	2.03	0.88	0.14	0.62	1.07	1.04	2.82	0.65	29.80
Intake	9.05	8.43	8.22	5.63	1.96	2.60						4.34	
Jacksonville	4.30	4.55	1.59	1.81	2.51	0.48	0.00	0.00	0.13	1.71	4.45	1.35	33.38

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Oregon—Continued.													
Jewell	15.53	11.87	10.72	5.71	2.90	2.82	0.28	1.25	4.35	7.98	19.62	9.02	92.05
Joseph	5.10	3.19	2.02	2.90	4.88	1.44	0.21	0.38	0.87	0.42	4.30	1.47	27.18
Kingman	1.30	1.00	0.67	0.45	1.88	1.00	T.	0.08	0.42	0.19	0.43	0.93	8.35
Klamath Falls	1.91	1.65	1.15	0.31	1.22	0.48	0.00	0.00	0.06	0.36	2.80	2.00	11.94
La Grande	3.12	2.90	2.52	2.78	2.10	0.37	0.03	0.56	1.44	0.73	5.46	1.94	23.95
Lake Creek	3.94	4.71	1.17	1.29	4.78	1.56	0.00	0.00	0.62	2.10	4.99	0.91	26.07
Lakeview	2.63	0.77	0.78	0.44	1.68	0.28	0.00	T.	0.14	0.19	1.66	1.37	9.94
Lapine	2.58	2.24	0.72	0.52	2.76	1.15	0.22	0.13	0.99	0.51	3.38	1.30	16.50
Larch Mountain											22.23		
McCredie Spring		7.54	4.12	5.66	3.80	3.38	0.00	0.24	1.32	2.93	12.96	5.34	
McKinley	11.61	10.22	4.83	4.98	3.01	2.17	T.	0.06	1.85	4.11	14.26	4.01	61.17
McMinnville	8.00	6.61	4.73	0.97	0.85	0.76	0.00	0.10	3.78	2.86	10.99	4.08	43.73
Madras	1.25	1.23	0.40	0.54	1.74	0.92	0.00	0.15	0.00	0.36	2.74	0.71	10.06
Marsgfield	11.61	10.75	5.78	6.06	2.89	2.64	0.00	0.15	3.01	5.08	15.48	3.85	67.33
Medford	3.12	3.33	1.06	0.75	2.47	0.10	T.	0.00	0.01	0.86	3.54	0.94	16.21
Merrill	1.27	0.64	1.63	0.49	1.60	0.27	0.00	0.06	0.02	0.15	1.51	2.07	9.71
Mikkalo	1.25	2.12	0.51	0.58	0.59	0.56	0.00	0.14	0.39	0.52	3.37	0.80	10.83
Milton	1.91	2.78	1.56	0.77	0.21	1.20	0.45	0.17	0.59	0.55	4.14	1.29	15.62
Miramonte Farm	8.43	7.43	4.38	2.44	1.25	1.66	T.	0.19		3.50	11.71	3.02	
Modoc Orchard	3.75	4.23	1.53	1.02	2.17	0.01	0.00	0.00	0.14	1.39	5.28	1.96	21.51
Moro	1.74	1.78	0.76	0.69	0.94	0.50	0.01	0.11	0.51	0.66	3.92	1.01	12.63
Mount Angel	8.62	8.89	5.25	2.79	1.91	1.58	0.00	0.00	3.50	4.40	14.58	2.65	54.17
Newhall Ranch	3.86	4.00	1.71	1.63	2.28	0.88	0.00	0.00	0.12	1.15	4.18	1.69	21.50
Newport	16.74	12.90	7.50	6.81	3.43	4.43	0.00	0.24	3.69	7.45	15.71	6.12	85.02
Oakridge	2.65	5.61	3.70										
Ochoco		1.84	1.65	1.32	2.42	1.74	0.01	0.86	0.78	1.46	3.30	0.21	
Olive Lake	7.42	4.37	3.58	3.80	2.80	1.25	0.55	0.77	1.72	1.64	10.99	2.37	41.26
Ortley	3.68	4.09	1.53	0.70	0.23	0.02	0.00	0.00	1.05	1.13	9.85	1.55	23.84
Parkdale	9.33												
Pendleton	1.82	3.17	0.89	1.08	0.54	0.57	0.98	0.32	0.88	1.14	3.70	2.60	17.69
Pilot Rock	1.11	1.66	0.81	1.12	0.89	0.55	0.47	0.41	0.94	0.54	4.01	0.78	13.32
Portland	7.82	7.21	4.28	2.26	0.99	1.36	T.	0.30	3.08	2.78	10.01	3.09	43.21
Port Orford	16.97	11.94	6.05	5.63	4.08	3.63	0.00	0.14	3.04	6.33	17.49	6.14	81.44
Power House	3.25	3.43	1.78	1.49	0.54	1.41	0.49	0.32	1.30	1.35			
Prairie City	2.21	1.90	1.07	1.58	1.66	0.93	0.06	0.23	0.69	0.81	4.10	0.51	15.75
Prineville								0.15	0.52	0.24	1.87	0.74	
Prospect	7.62	7.42	3.62	3.54	3.29	1.71	T.	0.14	1.46	3.41	10.07	2.85	45.13
Reservior No. 3	1.94	1.28	0.26	0.05	1.75	0.95	0.05	0.21	0.21	0.62	1.48	1.59	10.39
Richland			0.38	1.18	2.61	1.20	0.13	0.39	0.30	0.93	3.03	0.92	
Riddle	4.84	3.85	1.52	2.06	1.45	0.63	0.00	0.04	0.37	2.26	6.33	1.82	25.17
Riverside	1.74	1.75	0.78	0.08	2.50	0.32	T.	T.	0.50	0.18	0.50	1.05	9.40
Rock Creek	3.89	2.79	1.35	1.53	3.07		0.11	0.72	0.79	0.63	5.45	1.43	
Roseburg	4.12	4.31	1.71	1.38	1.75	0.76	0.00	0.04	1.45	2.13	6.46	1.52	25.63
Round Grove	2.89	2.05	1.25	1.08	1.83	1.07	0.06	0.19	0.26	0.35	1.90	1.39	14.32
Salem	7.27	6.90	5.07	1.93	1.62	1.05	T.	0.13	1.86	3.69	10.37	3.23	43.12
Sams Valley	4.16	4.92	2.16										
Silver Lake	1.98	0.87	0.14	0.39	2.52	0.44	0.00	0.00	0.09	0.51	1.02	1.75	9.71
Siskiyou	7.56	8.73	3.63	2.65	4.11	1.28	0.00	0.01	0.15	1.17	4.91	3.15	37.35
Sparta	2.53	1.31	0.17	1.13	2.42	0.47	0.05	0.20	0.67	1.36	3.01	0.56	13.88
Starkey	1.99	2.59	1.63	2.03	2.37	1.62	0.52	0.95	1.11	1.12	4.65	1.04	21.62
Sunrise Valley	1.82	1.23	0.95	0.23	1.69	1.46	T.	T.	0.34	0.38	1.01	0.66	9.80
Talent	3.13	2.78	1.30	1.26	3.16	0.21	0.00	T.	0.02	1.37	3.19	1.05	17.47
The Dalles	2.58	4.12	1.93	0.65	0.36	0.34	0.00	0.01	0.71	0.46	9.41	1.13	21.70
Tule Lake	1.55	0.90	0.65	0.49	1.27	0.71	0.00	0.13	T.	0.17	2.15	1.35	9.37
Umatilla	0.94	2.01	0.28	0.48	0.52	0.47	T.	0.09	0.30	0.52	2.21	0.64	8.46
Umpqua											15.48	3.40	
Union	2.55	0.83	0.72	2.37	2.32	0.86	0.14	0.23	0.61	0.69	2.16	1.31	14.79
Vale	1.74	0.85	0.49	0.54	1.96	0.68	0.00		0.73	0.57	0.81	1.83	
Valley Falls	2.03	0.89	0.38	0.81	2.98	2.25	0.00	T.	0.08	0.20	1.25	1.16	12.03
Waldo	10.23	7.47	4.35	1.33	3.05	0.15	0.00	0.00	1.02	4.70	10.30	5.45	48.05
Wallace Orchard	6.66	6.29	4.61	1.67	1.55	0.80	T.	0.14	2.58	3.70	9.89	2.68	40.57
Wallowa	3.19	2.57	1.12	2.28	2.64	0.98	0.00	T.	1.03	0.53	5.11	1.24	20.69
Warmspring	0.57	0.92	0.62	0.40	1.52	0.73	0.00	T.	1.45	0.15	4.22	0.78	11.36
Wasco	2.21	2.51	0.75	0.47	0.69	0.42	0.00	0.30	0.55	0.90	4.44	0.99	14.23
Welches (near)	13.65	13.24	9.78	9.25	2.40	3.59	0.50	0.50	5.05	7.08	22.99	4.10	92.13
Weston	2.99	3.68	2.35	1.68	0.44	1.20	0.90	0.26	1.29	1.35	4.77	2.19	23.10
Williams									0.52	2.76	7.58	3.05	
Wolf Creek	7.16	6.25	3.95	2.14	2.11	0.55	0.00	T.	0.46	3.11			
Yonna	2.27	1.54	0.95	0.32	1.20	0.41	0.04	0.00	0.04	0.60	2.04	1.75	11.16
Pennsylvania.													
Allentown	2.55	4.22	2.37	3.10	3.82	1.63	5.67	4.42	4.30	1.78	5.12	2.24	41.22
Altoona	2.94	1.96	2.28	2.73	4.87	1.50	7.48	3.89	4.35	1.56	7.78	2.76	44.10
Ansonia	0.89	1.60	2.83	3.22	2.88	2.15	4.13	2.91	5.21	1.75	4.81	1.28	33.66
Arendtsville	2.04	1.99	2.06	3.50	8.17	2.50	3.08	5.33	8.04	0.84			
Austin				2.00									
Beaver Dam	2.91	2.27	3.30	3.45	2.40	5.29	3.55	2.78	7.28	2.43	5.33	2.43	43.42
Beaver Falls	2.33	2.01	3.98	3.11	2.69	6.43	3.14	2.87	6.44	2.25	5.67	2.11	43.03
Bellefonte	2.94	2.07	2.08		3.90	3.50	4.11	4.37	5.88	2.25	4.55	2.06	
Bethlehem	3.07	3.30	2.31	4.63	3.30	3.80	6.11	3.15	5.12	1.79	5.46	2.34	44.38
Bloserville	1.82	2.10	2.30	3.88	7.69	4.52	2.45	3.10	4.10	1.77	6.13	2.60	42.46
Bradford	1.98	2.33	4.46	2.52	3.32	3.50	3.30	2.41	9.38	3.00	4.94	2.25	43.39
Bradys Bend	3.31	2.10	4.70	3.30	2.02	1.81	5.75	3.63	6.59	2.23	6.43	2.59	44.46
Brookville	3.04	1.41	4.49	1.53	2.20	2.95	5.36	4.30	7.96	2.52	6.21	3.16	45.13
Bustleton	3.21	2.99	2.18	3.03	4.48	2.79	2.72	6.40	2.34	0.49	4.31		
Carlisle	1.92	2.83	2.75	3.52	6.68	0.70	3.23	3.42	3.56	1.11	5.23	2.75	37.70
Catawissa	2.37	3.30	3.74	4.83	3.41	3.28	4.01	3.83	3.06	2.46	5.99	2.96	43.24
Cedar Run								3.11	4.53	1.35	6.54	1.59	
Center Hall	1.46	2.49	1.33	3.17	4.36	1.98	4.66	3.56	4.73	1.35	6.42	1.22	36.73
Chambersburg	2.18	1.87	2.64	3.19	6.29	2.61	4.56	5.14	8.48	1.21	4.35	3.23	45.75
Clarion	2.48	1.53	5.02	2.63	3.82	2.27	6.19	4.03	7.69	2.22	5.97	2.48	46.33
Claysville	3.66	2.23	3.79	2.63	3.96	4.20	3.62	4.20	6.88	2.09	6.15	3.72	47.13
Clearfield	3.17	2.20	3.97	2.80	6.16	3.93	7.83	5.47	11.48	1.59	9.14	3.14	60.88
Cloe	2.74	2.02	4.88	2.00	3.20	1.90	3.85	4.78	6.25	1.98	6.46	2.24	42.30
Clymer					5.07		5.96	4.28	5.21	2.57	7.29	2.48	

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Pennsylvania—Continued.													
Coatesville	2.66	2.58	2.65	2.98	4.14	3.62	2.09	2.96	2.52	1.05	5.27	2.59	35.11
Colebrook	2.38	2.45	2.53	3.26	1.88	1.71	2.05	2.97	2.80	1.83	4.75	2.90	34.51
Confluence	4.35	2.62	2.93	2.67	4.97	5.48	3.93	5.67	5.49	2.30	5.99	3.73	50.13
Coraopolis	3.07	2.04	3.12	2.75	2.32	9.86	2.20	2.92	7.44	1.90	5.80	2.76	46.18
Corry	2.53	2.53	6.15	5.06	1.82	6.46	2.95	2.81	4.38	3.28	6.76	2.56	47.32
Creekside	3.84	1.98	1.05	2.01	2.00	1.30	.....	.....	.....	.....	.....	1.74	.....
Cresson	2.07	2.92	2.29	3.09	4.92	3.01	9.19	4.13	4.09	1.69	8.89	2.79	50.58
Davis Island Dam	3.25	2.06	3.07	2.49	2.42	9.45	2.27	3.17	4.79	1.77	5.80	2.62	43.16
Derry	4.64	2.57	4.58	2.93	2.56	5.97	4.27	3.58	5.60	2.89	7.29	2.76	49.64
Doylestown	2.47	4.01	2.31	3.68	4.41	2.18	3.95	3.55	2.15	0.80	3.76	2.30	35.57
Driftwood	1.43	2.10	2.47	.....	6.18	2.20	1.23	4.46	4.99	1.52	6.71	1.80	.....
Ebensburg	3.71	1.86	3.28	2.45	4.92	2.87	5.83	4.35	6.48	1.94	7.94	2.12	47.75
Edinboro	2.27	2.28	5.59	4.97	2.34	3.13	3.60	3.31	4.68	5.15	7.53	2.31	47.16
Elk Lick	2.81	2.83	2.54	2.06	5.66	4.88	4.51	5.86	6.03	1.83	5.60	2.74	47.35
Emporium	2.12	2.41	4.42	3.43	5.02	.....	3.97	4.09	7.29	2.04	6.01	1.90	.....
Ephrata	.....	.....	.....	.....	.....	.....	1.90	3.74	1.63	1.57	5.33	2.57	.....
Erie	1.59	1.87	3.73	3.58	0.97	3.48	3.05	4.30	3.24	3.57	5.21	1.33	35.92
Everett	1.26	2.02	1.45	1.77	2.49	1.57	3.20	2.25	.....	1.55	4.85	3.65	.....
Falls Creek	2.61	1.75	4.76	3.16	3.08	3.67	4.51	4.43	7.07	2.29	6.30	2.44	46.07
Forest City	.....	.....	.....	3.96	3.07	1.97	3.25	3.05	3.94	2.90	5.97	1.96	.....
Franklin	2.78	2.48	4.27	3.86	2.25	1.57	8.39	3.88	4.87	2.29	5.15	2.20	43.99
Freeland	2.79	4.16	4.59	3.34	4.04	4.63	7.31	4.67	3.52	3.99	7.46	4.14	54.64
Freeport	3.36	2.84	4.09	3.74	2.62	4.20	2.43	4.41	5.75	2.08	6.21	3.16	44.89
George School	2.97	2.78	2.96	4.08	4.49	2.13	1.72	5.19	1.47	0.53	4.03	2.16	34.51
Gettysburg	2.14	2.29	2.25	3.62	8.02	0.94	5.75	5.67	5.69	0.79	4.78	3.43	45.37
Girardville	3.23	2.93	3.95	4.61	3.46	3.77	7.63	5.38	4.20	3.78	7.77	6.25	56.96
Gordon	1.97	3.01	4.23	4.39	4.74	2.75	4.07	3.21	4.36	2.71	5.91	5.05	46.40
Gouldsboro	1.96	3.02	3.00	4.14	4.66	4.75	4.25	3.44	3.83	4.07	5.31	3.34	45.77
Graterford	2.91	4.72	2.61	2.98	3.05	2.26	1.70	3.91	1.95	0.44	3.65	2.05	32.23
Greensboro	3.08	2.42	3.58	2.72	5.84	3.14	.....	.....	.....	.....	.....	.....	.....
Greensburg	4.85	2.61	3.86	2.76	2.42	6.67	4.16	3.58	5.20	3.20	6.80	3.02	49.13
Greenville	2.96	2.42	5.47	3.71	3.35	2.80	6.27	3.75	3.53	3.35	5.28	2.30	45.19
Grove City	2.74	2.22	4.16	3.16	2.65	3.42	5.57	3.56	5.92	2.33	6.57	2.38	44.68
Hamburg	.....	4.34	3.00	4.03	6.84	3.39	5.09	2.82	2.52	2.36	4.50	2.07	.....
Hanover	2.20	2.84	2.21	3.19	5.91	1.49	3.37	4.05	3.45	0.61	4.32	2.07	35.71
Harrisburg	1.68	2.67	2.34	3.29	3.94	1.74	1.26	3.12	2.73	1.51	3.20	2.60	30.08
Hawley	.....	.....	.....	.....	.....	.....	5.32	1.37	1.75	1.86	4.37	1.70	.....
Herrs Island Dam	3.37	2.08	3.58	2.38	2.35	7.37	3.24	3.24	4.61	1.92	6.41	3.20	43.75
Holtwood	1.86	2.14	2.03	2.41	3.67	1.89	4.79	3.78	1.98	1.22	3.83	0.91	30.51
Huntingdon	2.08	2.75	1.97	3.41	6.01	3.12	3.82	3.46	7.49	1.51	6.71	2.23	44.86
Indiana	4.68	3.63	4.31	3.09	4.29	3.53	3.64	5.01	5.71	2.40	7.03	3.39	50.71
Irwin	3.76	2.05	3.53	2.48	2.61	7.52	3.32	4.25	2.96	3.01	6.38	2.80	44.67
Jersey Shore	2.30	2.40	3.24	3.05	6.11	2.69	4.66	4.86	3.75	2.22	6.40	3.44	45.12
Johnstown	4.38	3.26	3.58	2.15	4.27	4.33	3.08	3.89	5.78	2.01	7.19	3.10	47.02
Ketner	2.32	2.03	4.00	3.84	2.79	2.12	3.04	3.97	8.87	2.68	5.67	1.64	42.97
Lancaster	2.42	2.34	1.94	3.15	3.39	0.92	3.45	3.48	1.91	1.37	5.34	1.83	31.54
Lansford	1.59	3.20	2.43	4.16	3.11	5.05	6.26	2.69	4.02	2.28	4.91	3.86	43.56
Lawrenceville	0.90	1.60	2.75	2.75	2.25	3.10	2.80	2.90	3.65	1.25	5.15	.....	.....
Lebanon	2.81	3.63	2.74	3.10	4.75	2.30	2.20	3.47	5.20	1.94	5.60	3.10	40.84
Lewisburg	2.15	3.08	3.22	3.64	4.77	2.56	4.18	4.32	3.75	2.13	5.86	2.72	42.38
Linesville	2.21	3.01	5.27	4.08	3.91	1.60	3.37	4.59	5.74	4.45	6.19	2.11	46.53
Lloyd	1.79	1.98	2.85	3.60	2.34	2.02	1.84	2.16	5.26	2.08	4.36	1.44	31.72
Lock Haven	2.49	3.12	3.39	2.90	7.22	1.00	4.15	5.48	4.45	.....	.....	.....	.....
Lock No. 4	4.23	2.12	3.68	2.51	3.00	3.01	3.47	3.66	5.17	2.32	6.56	3.41	43.14
Lycippus	5.23	3.36	4.06	2.17	2.77	6.27	4.69	4.12	9.00	3.14	7.26	2.64	54.71
Lykens	1.69	1.97	2.28	4.48	4.48	2.10	2.69	3.22	2.95	2.17	5.24	3.87	37.14
Marcus Hook	2.29	1.65	1.93	2.49	3.43	1.46	5.79	5.82	2.94	0.62	3.45	1.79	33.66
Martin	.....	.....	.....	.....	.....	.....	.....	4.87	6.08	2.84	6.87	3.85	.....
Mauch Chunk	2.83	3.84	5.02	4.83	3.58	2.78	4.86	3.01	5.06	3.23	4.99	4.06	48.09
Mifflintown	1.87	2.07	2.46	4.27	7.75	2.97	3.33	2.92	3.09	1.38	6.51	2.92	41.54
Milford	.....	.....	.....	.....	1.80	2.85	3.65	2.05	2.30	.....	.....	.....	.....
Montrose	1.65	1.80	3.78	3.20	2.81	2.16	4.46	2.56	4.00	3.64	7.22	1.63	38.91
Mount Pocono	4.08	3.54	5.86	3.09	4.61	3.20	5.95	3.03	.....	.....	.....	.....	.....
Mount Union	.....	.....	.....	.....	4.57	3.26	.....	2.78	5.22	1.38	5.67	2.55	.....
Muncy Valley	2.31	1.82	3.26	4.26	2.67	2.97	6.66	4.84	5.43	3.72	5.20	2.69	45.83
Narberth	3.19	3.06	3.60	4.06	4.61	1.96	5.57	4.47	3.24	0.75	5.28	2.74	42.53
Neshaminy Falls	2.43	2.60	1.93	1.12	4.23	2.33	2.82	6.62	1.53	1.04	4.15	1.85	32.71
New Castle	2.44	2.07	3.77	3.94	1.76	1.59	3.66	3.54	4.00	2.62	5.11	2.33	36.83
Newell	3.94	1.70	2.54	1.70	2.73	1.94	3.27	4.10	6.36	2.05	6.67	3.14	40.14
North Shenango	1.51	3.41	4.25	3.30	3.28	1.84	2.41	2.94	5.19	4.57	6.23	1.81	40.74
Palmerton	2.19	3.31	3.20	4.59	2.98	4.63	5.74	2.75	3.87	2.13	4.10	2.36	41.85
Parkers Landing	2.75	2.17	3.82	3.34	2.43	1.98	5.49	3.42	5.05	2.35	5.81	2.72	41.33
Penn Line	1.49	2.37	5.21	4.46	2.26	2.10	5.35	3.88	5.80	4.02	6.79	1.86	45.59
Philadelphia (Weather Bureau)	2.03	4.40	2.44	1.85	3.42	2.86	4.04	6.01	2.21	0.40	3.69	2.10	35.45
Philadelphia (d)	2.15	4.79	2.38	2.61	4.00	1.79	6.17	5.25	1.71	0.93	4.50	2.64	38.92
Phoenixville	1.47	2.40	1.52	3.21	.....	2.63	4.66	2.68	3.27	0.83	4.55	1.67	.....
Pittsburgh	3.35	1.80	3.36	1.66	2.49	5.33	2.81	3.03	5.07	2.25	5.06	2.36	38.57
Pottstown	2.49	2.93	2.08	2.95	3.32	2.55	1.98	3.88	2.33	1.45	4.03	1.90	31.89
Pottsville	1.63	3.11	4.18	4.08	5.24	3.65	6.84	3.29	4.21	2.11	5.76	4.16	48.26
Quakertown	2.39	3.43	3.82	3.34	3.63	1.70	6.23	3.04	3.32	1.53	4.18	2.42	39.03
Reading	2.79	2.66	2.43	5.76	3.34	1.06	2.55	4.13	3.70	1.50	5.87	2.17	37.96
Renovo	1.48	2.63	3.28	3.45	5.05	2.23	5.14	3.66	4.53	1.16	6.90	0.86	40.37
Ridgway	2.24	1.54	3.72	2.05	4.04	3.69	3.59	5.98	4.91	2.49	4.94	1.44	40.63
Sadsburyville	2.49	2.33	2.43	2.89	4.41	3.15	3.31	3.91	1.81	1.29	5.44	2.26	35.72
Saegertown	.....	.....	.....	.....	.....	1.77	5.04	3.64	4.76	4.09	6.81	1.94	.....
Saltsburg	4.04	2.95	3.53	2.51	2.57	6.14	4.07	2.68	9.52	2.67	6.87	2.95	50.50
Scranton	2.02	2.84	3.17	2.88	2.28	1.61	4.90	2.96	4.38	2.78	5.03	1.83	36.68
Selinsgrove	1.56	.....	.....	4.22	4.77	2.24	2.01	3.56	3.92	2.05	6.42	2.61	.....
Sharon	1.92	1.73	3.24	3.50	1.49	2.25	3.51	2.52	3.25	2.09	4.79	1.48	31.77
Shawmont	4.50	4.11	2.67	2.72	4.10	1.14	4.87	4.21	2.25	0.47	4.12	2.25	37.41
Somerset	4.54	3.96	3.71	2.80	6.11	6.52	5.24	6.33	8.45	3.01	7.51	4.73	62.91
Springdale	.....	2.46	3.52	2.67	2.29	8.25	.....	2.94	4.60	2.73	6.50	2.95	.....
State College	2.43	1.87	3.42	3.07	5.69	2.78	2.25	4.03	5.39	1.41	5.95	2.58	40.87
Stroudsburg	.....	2.97	2.47	3.98	3.65	2.37	.....	3.40	2.41	1.64	4.55	2.70	.....
Summit	1.66	2.78	4.73	4.00	3.06	2.70	4.50	3.94	3.25	6.55	7.52	2.18	46.87
Sunbury	2.13	2.66	3.90	3.59	4.80	1.90	3.55	3.42	3.48	1.55	5.42	2.49	38.89

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Pennsylvania—Continued.													
Tionesta	.....	.....	3.74	3.32	2.11	2.69	3.98	3.54	6.14	2.95	5.73	2.41	.....
Towanda	1.64	2.52	2.84	2.60	2.36	3.09	3.73	1.81	4.26	2.62	5.47	1.74	34.68
Trout Run	.....	.....	3.70	3.61	2.50	3.01	4.08	5.24	4.35	2.10	.....	.....	.....
Turnerville	1.48	2.24	3.36	3.39	2.63	1.53	.....	1.86	3.41	2.31	4.73	.....	.....
Uniontown	4.90	1.88	3.95	3.40	4.90	4.10	4.51	6.01	5.75	3.15	8.97	3.92	55.44
Vandergrift	3.21	2.53	4.22	2.54	3.15	3.36	2.56	3.60	6.22	1.96	5.98	2.34	41.67
Warren	1.76	2.07	3.51	3.43	2.86	3.85	4.89	2.52	7.23	3.30	5.41	2.50	43.33
Washington	.....	.....	.....	.....	.....	.....	4.94	4.50	7.50	2.97	5.36	3.56	.....
Waynesburg	.....	.....	.....	2.09	5.73	3.79	.....	6.68	7.01	1.90	.....	.....	.....
Weikert	2.43	2.25	3.79	3.60	5.53	2.80	4.22	3.72	4.45	1.78	6.17	3.64	44.38
Wellsboro	1.17	1.86	3.10	2.12	3.78	3.09	3.17	2.96	5.13	1.50	5.24	1.78	34.90
West Bingham	1.13	1.75	2.10	2.73	3.61	2.14	5.60	2.15	.....	2.32	4.86	1.02	.....
West Chester	2.46	3.49	1.26	3.30	3.96	3.32	1.43	2.58	3.14	0.69	4.36	2.12	32.11
Westford	1.67	2.49	4.87	4.00	3.05	2.89	4.19	3.27	5.70	3.87	6.65	1.56	44.21
West Newton	4.04	2.50	3.48	2.44	3.32	4.10	2.43	4.28	5.32	2.79	7.22	2.93	44.85
White Haven	2.44	3.18	2.67	3.80	4.63	3.89	8.09	3.62	3.44	4.07	6.20	4.08	50.11
Wilkes-Barre	1.85	3.30	2.08	2.23	4.12	1.59	6.32	4.34	3.30	3.13	4.99	1.99	39.24
Williamsport	2.75	2.37	2.93	3.78	4.02	1.41	3.76	3.92	3.27	2.90	6.21	2.58	39.90
York	2.02	1.72	1.48	2.79	4.98	1.92	2.88	3.75	2.42	0.85	4.59	2.11	31.51
York Haven	.....	.....	2.66	2.54	4.49	.....	2.18	3.92	3.53	1.17	4.59	2.29	.....
Porto Rico.													
Aguirre	2.18	2.17	1.15	0.62	4.45	4.20	3.16	0.90	5.65	5.01	3.40	0.47	33.66
Aibonito	6.38	2.26	4.58	2.26	4.00	3.85	5.82	3.75	8.66	3.03	2.83	2.80	50.23
Anasco	4.84	3.10	3.97	1.66	8.93	12.13	15.77	14.04	20.37	14.18	1.74	0.46	101.19
Arecibo	10.45	0.80	4.60	1.50	6.40	2.40	4.35	4.05	11.30	4.50	4.25	3.70	58.30
Barceloneta	11.01	0.50	4.87	1.40	2.45	3.81	4.24	5.80	5.27	2.25	3.13	4.87	49.60
Bayamon	8.80	2.87	5.74	[7.88]	.....	3.81	11.51	7.66	12.54	6.11	3.15	6.11	.....
Cabo Rojo	6.77	4.08	5.97	1.26	4.75	0.95	5.15	9.70	23.35	4.55	3.55	1.39	71.47
Caguas	9.07	3.35	7.55	1.15	2.10	4.75	9.72	3.09	6.75	5.63	2.66	2.18	58.00
Camuy	6.72	1.10	3.14	0.58	4.58	1.73	4.98	1.61	7.85	3.44	2.72	2.73	41.18
Cangrejo	7.65	0.31	4.72	1.20	5.48	1.94	10.59	4.29	5.51	5.84	2.81	1.78	52.12
Canovanas	12.84	2.08	5.60	2.88	8.42	1.04	8.15	5.82	8.28	7.56	4.72	4.61	72.00
Carite Camp	6.89	5.83	7.68	4.55	8.55	8.45	15.60	5.05	8.41	7.31	6.69	1.43	86.44
Cayey	4.66	3.07	4.67	2.83	2.84	5.69	7.63	4.60	9.36	2.84	3.32	1.03	52.54
Cepero	8.68	1.75	6.49	7.40	8.26	5.13	8.72	6.79	10.13	4.53	3.20	3.57	74.65
Coamo	1.57	2.69	0.50	0.71	3.23	5.05	3.35	1.36	9.06	2.13	2.65	0.47	32.77
Coloso	3.56	4.52	2.67	1.32	13.20	13.06	12.03	11.44	11.18	6.28	4.14	1.14	84.54
Comerio Falls	11.02	2.15	10.97	1.68	7.51	1.14	9.29	8.96	11.17	6.98	4.17	3.65	78.69
Culebra Island	2.19	0.94	1.38	0.42	.....	.....	.....	.....	.....	.....	.....	.....	.....
Destino	.....	.....	.....	.....	.....	2.68	.....	0.00	.....	.....	.....	.....	.....
Dorado	8.57	1.89	5.82	3.92	6.26	2.86	8.37	5.91	8.53	3.98	4.87	6.91	67.89
Fajardo	6.34	3.89	4.24	3.88	3.65	2.52	10.83	4.74	8.89	7.44	4.00	3.11	63.53
Guayama	2.21	2.30	2.17	1.29	3.60	6.74	5.89	2.69	5.49	5.91	3.70	1.37	43.36
Humacao	8.58	4.18	6.52	1.57	7.50	4.34	17.28	8.08	6.83	7.47	8.05	1.82	82.22
Isabela	7.35	2.25	3.15	2.60	7.15	2.10	3.15	5.60	5.60	2.40	2.15	3.00	46.50
Jajome Alto	6.40	5.92	7.16	5.43	6.44	7.34	11.94	3.58	13.78	5.43	5.77	1.72	80.91
Jayuya	8.02	1.27	5.10	1.17	5.73	4.59	4.55	5.90	20.01	6.60	3.52	3.23	69.69
Juana Diaz	1.48	3.12	0.71	0.56	5.57	4.48	3.09	3.74	7.66	2.89	1.46	0.39	35.15
Juncos	4.37	3.40	4.60	1.42	3.52	3.47	8.91	2.56	8.51	6.59	2.50	1.42	51.27
Manati	7.42	0.53	4.53	2.59	4.26	3.12	4.81	7.47	4.49	2.18	3.10	6.21	50.71
Mayaguez	3.78	0.21	5.84	2.91	5.86	4.00	8.87	14.75	20.55	8.59	1.73	2.38	79.47
Mona Island	2.67	4.45	4.15	2.69	3.96	2.36	6.39	5.22	3.90	3.20	2.36	2.01	43.36
Patillas Dam	6.59	2.33	6.46	2.24	3.70	4.34	10.92	3.25	5.87	7.29	7.33	1.24	61.56
Penuelas	1.93	3.55	2.65	0.40	8.90	3.10	5.15	2.20	14.30	2.80	2.05	1.40	48.43
Potala	1.36	2.72	0.00	0.24	2.88	1.90	2.89	1.00	5.06	3.32	0.92	0.00	22.29
Rio Grande	9.82	3.00	10.90	3.85	9.51	6.76	15.16	10.11	10.37	5.72	6.04	4.63	95.87
Rio Piedras	6.70	1.86	5.01	4.27	3.63	1.20	5.67	5.85	10.24	4.79	4.48	3.28	56.98
San German	4.87	4.08	7.04	3.28	7.17	[0.37]	3.70	8.41	19.49	2.78	4.73	1.61	67.53
San Juan	7.03	1.21	4.75	2.48	7.23	2.20	8.43	5.89	6.52	6.24	4.27	2.98	59.23
Toro Negro Dam	5.78	5.14	3.57	2.36	13.44	9.37	8.50	3.18	22.26	8.56	7.43	3.83	93.42
Utuado	4.15	0.10	1.60	1.18	8.10	8.20	6.50	6.40	22.85	9.60	3.90	0.90	73.48
Vieques Island	5.43	6.60	4.16	1.85	3.40	3.29	7.21	5.12	6.50	3.03	3.40	2.10	52.09
Yabucoa	9.25	3.07	4.96	3.81	4.70	5.24	13.84	8.28	9.38	10.73	7.04	2.92	83.22
Rhode Island.													
Block Island	2.61	1.37	2.81	2.76	4.85	2.56	3.72	3.05	0.80	2.06	6.50	2.16	35.25
Bristol	3.14	2.23	3.51	4.63	3.05	4.61	4.75	1.74	1.06	1.27	.....	2.61	.....
Greene	3.24	2.35	3.20	5.47	4.47	4.52	5.96	1.87	2.48	1.53	7.60	2.74	45.43
Kingston	3.24	2.63	4.23	4.33	4.00	3.31	5.18	2.70	1.58	1.07	7.98	3.19	43.44
Pawtucket	3.21	3.52	2.61	4.90	4.00	5.28	7.74	3.08	1.82	1.49	9.16	2.51	49.32
Providence	3.32	2.23	2.50	4.21	2.60	3.35	5.35	1.88	1.33	1.23	6.35	2.43	36.78
South Carolina.													
Aiken	2.53	3.55	1.31	1.45	6.27	1.64	5.66	4.97	3.28	0.87	3.66	0.83	36.02
Allendale	2.09	1.98	2.53	2.18	6.67	3.87	9.92	.....	.....	.....	.....	.....	.....
Anderson	4.79	7.49	1.40	2.37	3.65	3.55	2.49	2.32	4.20	1.97	2.90	1.59	38.72
Batesburg	5.24	4.36	0.77	1.74	4.28	0.82	3.98	5.03	3.35	0.30	3.75	2.10	35.72
Blackville	2.76	2.70	1.26	0.95	6.78	2.65	7.30	4.55	0.80	0.80	4.54	0.35	35.44
Blairs	4.84	5.27	1.09	1.56	4.88	1.52	6.55	2.82	3.36	1.01	2.60	1.54	37.04
Bowman	2.56	3.86	2.78	2.77	4.76	4.23	9.32	6.02	0.31	1.53	2.39	.....	.....
Calhoun Falls	5.11	5.81	2.01	2.21	3.60	2.45	5.71	3.82	3.98	2.68	2.95	1.23	41.56
Camden	3.63	5.32	2.08	1.99	6.04	3.21	10.38	1.21	1.82	1.54	3.11	2.14	42.47
Catawba	5.42	6.49	3.12	1.39	4.31	3.35	6.65	4.10	2.25	1.49	2.66	1.79	43.02
Chappells	4.68	5.19	1.40	2.37	6.39	0.33	3.77	3.28	6.25	0.83	2.58	1.89	38.96
Charleston	1.58	1.26	2.66	2.06	5.92	0.61	16.61	5.70	5.19	1.70	1.82	0.51	45.62
Cheraw	4.68	3.43	3.48	3.13	5.50	2.52	10.48	2.16	1.24	1.18	2.66	1.72	42.18
Clemson College	5.27	9.00	3.35	3.21	4.15	2.92	5.12	6.24	7.54	2.31	5.61	2.79	57.51
Columbia	3.26	4.49	0.97	1.24	5.97	2.53	5.64	3.62	1.83	0.45	2.47	1.21	33.68
Conway	2.18	3.07	3.51	4.46	3.35	4.98	6.27	3.32	0.41	2.62	3.94	1.26	39.37
Darlington	3.87	2.00	1.95	3.21	9.05	2.29	10.24	2.41	1.01	0.63	1.63	1.39	39.68
Due West	3.93	6.09	1.97	1.65	4.04	1.65	6.10	6.42	6.13	1.93	3.03	1.46	44.40
Edgefield	4.09	5.17	1.62	2.65	3.70	2.07	5.53	2.95	3.97	1.16	5.28	1.27	39.46
Effingham	3.26	4.49	3.69	3.45	4.19	1.68	14.33	4.15	1.61	1.06	2.77	1.31	45.99

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
South Carolina—Continued.													
Ferguson	1.31	2.99	1.99	2.73	4.44	5.71	11.26	8.14	1.15	1.76	3.48	0.89	45.85
Florence (No. 1)	3.58	4.27	4.26	3.58	6.33	1.97	7.16	2.33	0.45	1.65	2.50	1.06	39.14
Florence (No. 2)	4.18	4.77	4.42	3.49	7.69	1.60	6.53	3.10	0.85	2.40	1.72	1.35	42.10
Garnett	1.33	1.66	2.56	2.14	9.53	4.28	11.96	5.65	2.10	2.40	3.77	0.45	47.83
Gaston Shoals	5.98	6.27	2.27	2.37	4.77	2.08	2.21	3.06	4.86	2.91	4.18	2.04	43.00
Georgetown	2.68	3.10	3.15	3.68	5.19	2.85	17.17	10.03	4.08	1.36	4.37	1.51	59.17
Greenville	5.10	8.87	2.42	2.85	5.61	1.75	3.15	3.77	6.49	2.56	3.38	2.80	48.75
Greenwood	4.15	4.47	1.97	2.17	4.30	2.45	4.39	4.79	3.43	2.36	2.94	1.27	38.69
Heath Spring	4.65	4.92	3.93	2.66	5.96	4.63	6.19	1.46	2.05	1.48	3.39	1.16	42.48
Kershaw	4.00	6.65	2.46	2.57	5.42	2.74	8.24	1.54	1.92	0.92	3.67	0.93	40.46
Kingstree	1.36	3.08	3.71	2.54	4.24	4.23	9.02	4.62	0.45	1.49	2.15	0.64	37.53
Landrum	3.81	4.48	2.92	3.78	6.48	2.31	9.26	5.79	6.64	4.44	4.51	3.13	57.55
Laurens	7.16	7.61	1.16	2.58	5.49	1.11	3.15	3.38	3.28	3.80	1.89	1.50	42.11
Liberty	4.56	6.17	0.82	3.80	4.18	2.75	5.03	2.29	5.67	3.55	5.05	3.01	46.88
Little Mountain	4.47	2.35	1.64	1.39	4.42	3.01	7.72	1.57	6.28	0.96	3.48	1.51	38.80
Monetta	3.65	5.77	1.77	2.02	4.95	2.56	5.71	4.78	2.73	0.59	3.55	1.71	39.79
Newberry	4.60	5.09	1.34	2.00	5.01	1.98	3.65	3.38	6.57	1.11	2.96	1.61	39.30
Orangeburg (No. 1)	2.63	5.32	1.97	1.68	6.44	5.29	8.78	3.45	2.67	2.44	2.40	0.61	43.68
Orangeburg (No. 2)	2.72	6.07	2.85	2.44	7.02	4.20	8.23	3.69	1.60	1.64	2.20	1.67	44.33
Paris Island	1.80	1.40	1.90	1.50	3.00	4.20	8.70	3.80	1.30	2.90	1.40	1.40	33.30
Pelzer	5.58	7.98	1.90	2.80	5.34	1.96	3.50	2.60	3.46	3.42	3.36	1.76	43.66
Pinopolis	2.52	2.00	3.39	2.40	5.80	3.18	.....	5.03	4.81	0.96	1.11	1.40	.....
Rimini	2.94	3.82	.....	3.49	7.56	2.15	9.94	4.66	0.48	3.52	2.70	1.25	.....
St. Matthews	4.19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saluda	.....	.....	.....	3.00	4.44	3.14	4.08	3.36	5.36	0.93	4.05	2.36	.....
Santuck	5.75	6.92	1.65	1.51	4.65	2.20	7.96	3.40	7.06	1.28	2.73	1.61	46.72
Society Hill	3.87	4.58	2.74	2.82	7.26	2.66	8.94	8.25	0.80	0.98	2.29	1.85	47.04
Spartanburg	5.47	6.89	2.20	2.54	4.67	2.59	3.40	4.50	4.10	3.67	3.43	2.31	45.77
Summerville	1.82	2.24	2.29	2.85	4.06	4.84	9.49	7.31	5.19	1.43	1.67	0.75	43.94
Trenton	4.18	6.28	1.16	1.72	3.44	2.45	6.85	3.40	4.80	0.20	3.80	1.63	39.91
Walhalla	4.89	9.68	2.65	3.39	3.71	2.00	5.29	7.08	7.43	3.02	5.22	3.37	57.73
Winnsboro	7.07	4.39	1.92	1.55	5.74	2.39	8.10	2.39	2.37	1.61	3.19	1.41	42.33
Winthrop College	4.31	3.67	2.09	1.40	3.60	2.37	7.34	4.34	5.31	1.38	2.18	2.08	40.07
Yemassee	1.39	1.58	1.65	1.95	5.10	5.06	12.66	3.15	3.11	1.60	2.53	0.31	40.09
South Dakota.													
Aberdeen	0.10	0.63	1.09	2.01	2.07	1.57	4.87	2.29	6.00	1.89	1.20	0.30	24.02
Academy	0.05	T.	1.48	1.00	3.18	1.56	2.22	6.19	3.22	0.86	0.29	0.20	20.25
Alexandria	.....	T.	1.10	2.32	3.91	1.50	2.58	4.08	3.15	0.42	.....	.....	.....
Ardmore	1.15	0.18	0.07	0.52	2.42	4.64	0.87	0.55	0.46	0.66	0.68	0.30	12.50
Armour	0.27	0.06	1.54	1.59	3.42	2.91	1.80	6.76	3.99	0.51	0.46	0.80	24.11
Bellefourche	0.44	T.	0.70	0.20	1.49	2.68	2.15	0.64	0.50	0.03	0.49	1.05	10.37
Bison	0.35	0.10	1.45	0.95	4.22	.....	.....	.....	.....	.....	.....	.....	.....
Britton	0.20	0.19	0.97	1.22	3.16	2.57	3.94	2.58	6.66	0.51	0.59	0.09	22.68
Brookings	0.09	0.05	1.49	1.42	2.99	0.85	3.44	2.11	4.25	0.27	0.50	0.10	17.56
Camp Crook	0.07	T.	1.66	0.40	1.73	1.66	0.77	1.09	1.76	T.	0.55	0.40	10.09
Canton	0.40	0.10	1.95	1.80	7.77	3.60	1.85	3.47	2.52	1.00	0.30	0.60	25.36
Castlewood	0.20	0.08	2.74	2.71	2.59	0.84	4.10	4.22	7.21	0.42	0.60	0.17	25.88
Cedarbutte	0.45	0.30	1.94	1.99	4.84	0.86	5.01	0.95	2.69	1.94	1.34	0.41	22.72
Centerville	0.36	0.40	1.14	2.10	6.86	1.21	2.14	5.50	3.36	0.41	0.38	0.70	24.56
Clark	0.36	0.37	1.40	2.58	2.49	2.51	5.51	4.71	7.14	0.40	0.85	0.25	28.57
Colome	0.18	T.	1.38	1.12	2.35	0.66	4.97	3.67	3.50	2.41	0.78	0.42	21.44
Cottonwood	0.17	0.10	0.17	0.40	2.91	0.78	3.58	1.10	0.41	0.78	0.29	0.21	10.90
Crow Creek	0.12	T.	0.98	1.28	4.14	0.81	3.57	1.79	.....	.....	.....	.....	.....
Custer	1.25	T.	0.21	0.66	2.91	4.94	1.28	2.95	0.37	0.05	0.75	0.66	16.03
Deadwood	0.85	0.30	1.85	1.75	1.95	4.70	4.00	1.20	0.10	0.20	0.70	1.05	18.65
Deerfield	0.55	0.14	0.14	0.75	1.96	8.35	2.44	1.24	0.44	T.	0.75	0.65	17.41
De Smet	0.33	T.	1.22	1.41	.....	0.29	8.99	2.14	6.06	0.77	0.35	.....	.....
Dowling	.....	.....	0.17	1.05	3.00	1.06	2.95	0.41	1.11	2.46	0.24	0.55	.....
Dumont	0.76	0.41	0.67	0.76	1.38	3.52	2.15	1.19	0.46	0.19	0.40	0.33	12.22
Eales	0.25	0.04	0.32	1.44	3.02	1.09	2.96	3.02	2.91	1.95	0.83	0.46	18.29
Elk Mountain	0.58	0.15	0.15	0.28	2.21	6.14	0.93	0.72	0.91	0.09	0.99	0.84	13.99
Eureka	0.44	0.23	1.27	3.74	3.31	0.52	4.51	4.45	3.29	1.64	0.36	0.24	24.00
Fairfax	0.25	0.25	0.38	0.65	1.81	3.19	5.62	6.19	2.75	1.10	0.12	0.27	22.58
Faulkton	0.15	0.05	0.69	5.62	2.64	1.49	2.52	2.75	3.19	1.46	0.83	0.20	21.59
Flandreau	0.39	0.05	2.16	1.39	2.95	1.16	2.22	3.14	5.45	0.99	0.51	0.11	20.52
Forestburg	0.47	0.02	1.85	1.59	4.37	1.76	3.49	1.97	2.98	0.66	0.42	0.33	19.91
Gannvalley	0.62	T.	1.08	1.43	2.46	0.27	3.37	1.60	4.24	0.85	0.51	0.60	17.05
Glenham	.....	.....	.....	.....	.....	.....	0.80	2.23	2.32	1.92	0.40	.....	.....
Greenmont	1.10	0.40	0.62	0.60	1.60	2.30	3.00	1.20	0.30	0.20	0.60	0.90	12.82
Hardingrove	.....	.....	.....	.....	.....	0.58	2.06	0.74	1.50	2.00	0.37	0.52	.....
Hardy Ranger Station	0.92	0.57	0.78	.....	.....	1.03	3.37	0.84	.....	.....	.....	.....	.....
Harveys Ranch	1.10	0.65	0.75	0.60	2.55	3.98	2.20	0.55	0.10	0.25	0.70	0.75	14.18
Hermosa	0.51	0.12	0.03	0.29	3.54	4.37	4.23	3.29	0.93	0.25	0.36	0.37	18.29
Highmore	0.25	T.	0.49	1.78	2.60	0.55	3.10	3.68	4.79	1.20	0.33	0.20	18.97
Hopewell	0.19	T.	0.65	1.34	2.53	1.11	5.32	1.08	2.75	2.40	0.51	0.20	18.08
Hot Springs	2.10	0.30	0.30	0.70	3.02	3.48	2.54	2.19	0.47	1.43	1.34	0.80	18.67
Howard	0.38	0.12	1.62	1.20	2.58	1.19	5.54	2.27	2.69	0.79	0.16	0.20	18.74
Howell	0.13	0.02	0.65	2.63	3.35	1.06	4.33	4.41	4.34	1.71	0.55	0.20	23.38
Huron	0.34	0.03	1.51	1.88	2.66	0.78	4.17	3.22	4.55	0.79	0.42	0.42	20.77
Interior	1.25	0.10	1.00	0.47	4.02	2.03	4.09	1.26	1.00	1.30	0.50	1.00	18.02
Ipswich	0.07	0.02	0.87	3.82	3.83	1.22	5.30	1.57	3.06	1.81	0.58	0.28	22.43
Isabel	0.05	T.	1.02	1.15	.....	.....	.....	.....	.....	.....	0.27	0.24	.....
Jefferson	0.33	T.	2.05	0.57	2.44	0.82	1.16	1.66	1.45	0.12	1.07	1.30	12.97
Kadoka	0.60	0.00	0.44	0.93	2.49	0.90	5.07	.....	.....	.....	.....	.....	.....
Kennebec	0.21	T.	0.10	.....	.....	.....	4.49	1.13	4.03	1.04	0.47	0.80	.....
La Delle	0.20	0.19	1.80	2.17	6.29	.....	.....	2.49	10.06	0.63	0.95	0.18	.....
Lead	0.79	0.41	1.21	1.22	1.40	4.58	2.70	1.50	0.29	0.33	1.06	0.95	16.44
Lemmon	0.66	T.	0.79	1.01	1.77	2.70	0.71	0.75	1.84	0.31	1.50	0.60	12.64
McIntosh	0.65	0.00	0.97	1.88	2.81	1.70	1.05	1.98	3.74	1.25	0.70	0.60	16.73
Marion	0.07	0.02	2.68	1.62	2.92	1.53	1.97	5.37	7.49	0.17	0.34	0.42	24.60
Meadow	0.10	T.	1.31	0.53	2.05	0.79	1.76	0.51	1.62	0.29	0.62	0.80	10.38
Mellette	0.10	0.30	1.46	3.46	1.74	1.15	7.01	3.53	6.46	1.60	0.90	0.10	27.81
Menno	.....	0.20	1.70	2.85	5.20	3.70	4.10	8.00	4.65	.....	.....	0.30	.....
Milbank	0.22	0.20	2.65	2.21	1.21	2.64	3.30	2.48	4.80	0.44	3.89	0.26	24.30

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
South Dakota—Continued.													
Mitchell	0.42	0.02	.....	2.70	3.56	0.49	2.35	3.96	2.03	0.40	0.35	0.22	.....
Mud Butte	0.17	T.	1.12	0.66	2.77	1.61	1.05	2.92	1.80	0.02	0.42	0.35	12.89
Murdo	T.	T.	.....	0.51	2.83	1.50	4.11	0.99	2.76	2.45	0.20	0.18	.....
Newell	0.29	T.	0.84	0.72	1.44	3.36	2.30	0.52	0.72	0.10	0.30	0.50	11.09
Oelrichs	1.47	0.83	0.02	0.48	3.42	2.77	1.65	0.65	0.35	1.37	1.10	0.70	14.81
Onaka	0.20	0.40	1.95	5.25	6.70	2.45	3.30	2.30	4.50	1.95	0.60	0.20	29.80
Onida	0.15	0.00	0.49	1.60	3.98	0.21	2.71	0.81	2.00	1.48	0.41	0.04	13.88
Orman	0.30	T.	0.47	0.63	1.47	2.40	2.20	0.35	0.45	0.10	0.31	0.43	9.11
Ottumwa	0.42	0.20	0.40	1.08	3.72	0.64	2.28	.....	2.19	2.18	.....	0.40	.....
Pierre	0.21	0.05	0.49	1.33	4.79	0.54	4.92	1.59	3.21	1.28	0.49	0.27	19.17
Pine Ridge	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.60	0.56	0.53	.....
Pollock	0.21	0.08	1.47	4.28	2.26	1.83	1.68	1.63	2.24	2.25	1.05	0.53	19.51
Rapid City	0.78	0.23	0.16	0.36	2.50	3.36	1.65	1.99	0.95	T.	0.63	0.70	13.31
Redfield	0.03	T.	0.85	1.72	1.61	0.19	4.47	3.08	6.05	1.64	1.11	.....	.....
Redig	0.26	T.	1.97	0.44	0.92	1.35	2.10	0.84	1.29	0.07	0.37	0.62	10.23
Roehford	1.04	0.43	0.40	1.37	2.12	3.73	2.79	2.37	0.37	0.07	0.89	0.73	16.31
Rosebud Agency	0.25	0.08	1.65	0.43	4.22	1.20	3.87	3.03	1.65	2.62	0.98	1.08	21.06
Roslyn	0.12	0.10	0.90	1.01	1.29	2.55	4.92	2.31	9.99	0.54	0.47	0.05	24.25
Sioux Falls	0.22	0.26	2.13	2.80	4.40	1.91	4.97	2.97	1.97	1.50	0.59	0.46	24.18
Spearfish	0.37	0.13	1.00	0.64	1.15	2.92	2.48	1.63	0.43	0.26	1.17	2.38	14.56
Tyndall	0.04	0.20	1.18	1.89	6.08	1.01	4.68	4.31	3.04	0.50	0.37	0.63	23.93
Vale	0.44	0.03	0.49	0.59	1.93	2.50	2.07	1.02	0.64	0.23	0.51	1.09	11.54
Vermilion	0.33	0.49	0.78	1.36	7.01	2.19	2.95	3.42	2.08	0.86	0.44	0.65	22.56
Vivian	0.19	0.01	0.68	1.53	4.23	1.22	4.34	0.44	3.55	1.68	0.63	0.28	18.78
Wagner	0.42	0.25	1.00	0.59	5.39	2.38	2.83	4.27	4.28	0.40	0.52	1.30	23.63
Waters Ranch	1.00	0.05	0.96	0.55	1.04	3.59	5.78	0.88	1.40	0.24	0.66	1.39	17.54
Watertown	T.	0.18	2.05	2.22	2.27	1.64	4.18	5.10	7.22	0.15	0.90	0.16	26.07
Wentworth	0.52	T.	1.81	1.53	3.72	1.00	3.62	3.69	4.29	1.17	0.41	0.26	22.02
White Lake	0.36	0.10	1.25	1.41	2.55	0.32	3.00	5.84	4.44	0.54	0.56	0.30	20.67
Wood	0.33	0.08	1.04	0.79	3.68	1.84	4.03	2.47	2.37	1.54	0.57	0.38	19.12
Yankton	0.46	0.39	1.23	1.15	6.04	1.36	2.63	4.85	2.33	1.03	0.32	0.60	22.39
Tennessee.													
Ashwood	2.80	6.08	5.45	4.65	2.00	3.05	3.20	7.45	6.35	2.95	5.65	2.10	51.73
Bluff City	4.19	4.42	2.63	3.76	4.81	3.02	7.55	8.07	3.22	1.24	4.14	2.32	49.37
Bolivar	2.60	6.25	9.01	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brownsville	2.39	5.79	7.72	7.23	2.42	2.25	1.40	6.11	4.07	1.38	5.17	3.09	49.02
Carthage	3.68	3.92	5.96	5.63	2.42	2.03	3.87	5.89	7.77	3.27	6.84	2.63	53.91
Cedar Hill	3.93	4.58	9.33	4.41	1.23	4.05	1.83	7.06	5.84	2.70	7.30	3.08	55.34
Celina	4.12	3.71	5.86	6.27	2.10	0.44	4.13	6.32	6.08	2.17	6.62	2.60	50.42
Charleston	4.62	6.15	1.94	6.46	3.13	3.29	4.58	3.70	2.46	1.97	6.95	3.00	48.25
Chattanooga	4.46	7.43	3.33	5.09	4.02	2.73	4.52	4.88	4.04	2.43	5.39	2.86	51.18
Clarksville	4.12	5.11	10.73	4.77	1.69	4.53	2.04	4.62	5.76	2.56	7.69	3.12	56.74
Clinton	3.80	5.57	3.13	5.54	1.75	0.65	5.80	4.19	1.35	1.64	5.54	3.72	42.68
Coldwater	2.85	5.59	3.32	5.16	2.28	4.71	4.71	9.29	3.29	3.95	4.09	2.56	51.80
Cookeville	3.73	5.52	6.01	5.09	2.22	4.20	3.80	4.34	4.00	3.62	6.51	4.00	53.04
Copperhill	3.81	6.79	2.73	4.23	3.35	3.29	6.62	5.20	3.19	2.28	8.18	3.97	53.64
Covington	1.89	5.97	6.88	9.63	1.38	3.07	3.32	10.17	5.38	1.26	5.02	3.84	57.81
Crossville (near)	3.60	7.91	4.50	5.23	5.01	3.72	7.06	3.87	3.58	1.18	5.36	2.44	53.46
Dandridge	3.68	4.83	2.68	3.95	3.47	3.59	4.81	4.16	1.84	0.69	4.96	2.04	40.70
Decatur	5.10	6.05	3.07	5.92	1.52	3.36	3.96	2.80	3.39	2.47	6.39	3.24	47.27
Dickson	.....	.....	6.42	5.15	1.93	2.70	2.95	4.19	8.10	2.29	5.69	1.99	.....
Dover	3.32	5.78	9.49	3.71	1.27	2.93	3.68	4.03	4.71	2.22	4.87	4.16	50.17
Dyersburg	2.27	4.25	7.05	5.87	2.22	1.66	5.49	2.44	3.24	1.03	6.01	2.53	44.06
Elizabethton	2.67	4.02	2.33	3.93	2.84	4.73	5.74	8.68	2.88	1.40	4.01	1.46	44.69
Florence	2.92	4.52	5.44	5.90	1.96	0.69	6.72	4.95	4.58	2.80	5.07	2.61	48.16
Franklin	3.41	4.70	5.13	3.38	1.30	1.22	4.10	6.21	3.98	3.16	6.21	2.08	44.88
Gatlinburg	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.89	.....
Greeneville (near)	3.65	3.56	2.60	3.61	3.13	2.55	4.81	7.64	1.40	.....	.....	1.81	.....
Halls Hill	3.07	4.80	3.73	4.52	2.06	2.48	6.39	6.90	3.96	2.89	7.03	3.61	51.44
Henderson	3.96	4.84	8.13	7.89	2.19	1.76	2.13	7.75	4.59	1.89	6.97	2.76	54.86
Hohenwald	2.74	5.44	6.23	5.76	1.86	5.44	5.68	7.90	2.77	2.99	5.85	2.84	55.50
Huntingdon	3.02	5.42	9.96	4.77	1.71	2.92	6.44	5.34	4.54	1.56	6.65	3.44	55.77
Jackson	2.35	4.93	8.57	6.13	1.95	2.67	2.81	6.68	6.52	1.70	4.21	1.70	50.22
Jefferson City	3.50	4.57	3.42	2.20	2.54	2.79	5.38	5.90	2.09	1.12	4.58	2.13	40.22
Johnson City	3.87	3.95	2.91	2.41	3.11	2.19	6.89	5.02	2.65	1.50	3.85	2.41	40.76
Johnsonville	3.23	4.06	10.42	4.35	1.66	3.11	4.26	6.02	11.31	1.57	5.84	2.71	58.54
Kenton	2.05	4.41	6.32	5.72	2.33	0.52	7.31	1.66	2.43	2.15	4.66	2.10	41.66
Kingston	3.90	5.59	3.12	5.90	2.07	2.20	7.54	3.60	2.42	1.27	7.13	3.47	48.21
Knoxville	3.40	4.65	3.61	3.16	1.85	3.07	7.82	2.86	1.63	1.40	4.74	2.26	40.45
Lebanon (near)	2.88	3.64	7.01	4.31	2.62	1.55	6.10	5.86	7.09	2.82	7.14	2.86	53.88
Lewisburg	2.87	7.59	4.38	6.02	3.16	3.10	2.50	7.11	2.33	2.53	6.18	2.30	50.07
Liberty	3.46	6.25	4.24	4.94	1.70	2.14	4.61	7.47	5.29	3.08	6.80	3.20	53.18
Loretto	2.84	5.58	4.75	6.85	1.16	3.08	3.46	4.03	3.60	2.78	4.27	2.24	44.64
Loudon	4.82	5.79	3.08	6.60	1.80	2.21	6.30	7.06	3.04	0.84	7.60	1.94	51.08
Lynnville	2.93	8.15	4.81	6.48	1.76	4.26	4.29	9.94	2.61	2.54	8.05	2.20	58.02
McGhee	4.35	6.90	2.73	4.83	3.94	1.96	7.83	3.43	1.76	1.08	7.19	2.49	48.49
McMinnville	2.72	7.92	4.14	4.10	1.38	2.56	3.82	6.84	8.60	2.39	6.76	1.93	53.16
Memphis	1.84	6.09	7.41	11.64	1.27	2.15	3.19	5.84	1.58	1.40	4.59	2.53	49.53
Milan	2.42	4.77	8.92	5.03	1.32	0.52	5.66	5.48	5.20	1.50	5.24	3.51	49.57
Moscow	2.40	5.94	11.36	9.75	1.29	7.38	2.58	4.06	3.59	3.69	5.48	2.12	59.64
Mountain City	3.93	4.86	2.75	.....	4.86	2.40	5.21	4.77	.....	.....	.....	.....	.....
Nashville	3.11	4.70	5.95	3.50	1.15	2.29	4.56	2.85	3.72	2.93	5.68	1.76	42.20
Newport	3.87	5.04	2.46	4.05	3.65	3.66	5.85	4.01	2.21	0.87	3.97	1.34	40.98
New River	3.88	4.80	3.66	5.15	3.18	0.98	1.74	4.87	6.11	1.03	6.41	3.07	44.88
Palmetto	2.86	7.71	4.28	5.73	2.14	5.88	2.32	7.64	4.39	2.39	6.44	2.27	54.05
Perryville	2.71	4.05	7.17	3.68	1.95	1.93	5.24	6.14	5.00	3.13	5.42	3.19	49.61
Pinewood	2.44	3.79	6.35	6.22	2.81	2.57	5.86	4.66	5.27	2.34	5.72	2.20	50.23
Rogersville	2.84	3.69	2.19	3.41	2.45	3.64	7.26	6.12	2.59	1.11	4.39	2.48	42.17
Rugby	4.97	5.08	4.28	4.75	2.38	2.46	3.25	4.76	7.10	1.76	6.14	4.38	51.31
Savannah	3.05	4.87	7.10	6.37	1.72	4.23	6.00	6.45	3.96	3.30	4.82	1.73	53.60
Sevierville	3.90	5.04	3.27	3.08	4.86	4.99	2.64	3.60	2.49	1.03	4.13	1.88	40.91
Sewanee	4.69	5.85	4.08	4.71	2.81	4.59	9.00	7.99	6.48	4.11	8.50	2.37	65.18
Sparta (near)	3.49	7.01	4.12	4.13	3.78	2.03	.....	.....	.....	.....	.....	.....	.....
Springville	3.24	5.26	10.84	4.77	1.56	1.75	4.23	4.42	4.60	1.42	4.93	4.13	51.15

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Tennessee—Continued.													
Tazewell	3.53	4.24	3.23	4.68	3.28	3.52	6.31	7.24	2.81	0.97	5.61	3.48	48.90
Tullahoma	2.83	6.80	3.47	4.95	2.33	4.69	4.23	5.92	4.22	3.67	7.06	3.14	53.31
Union City	2.85	2.88	7.43	4.49	1.80	0.83	2.92	5.23	5.30	1.64	7.52	3.07	45.96
Walling	3.17	7.23	4.66	4.22	3.03	4.62	4.47	6.18	8.04	2.27	5.99	2.24	56.12
Waynesboro	3.26	7.76	6.05	6.64	2.31	1.28	5.46	7.95	4.91	2.34	6.52	2.14	56.62
Worsham	3.51	3.86	7.26	4.01	2.59	1.87	2.76	3.45	4.48	2.35	6.45	2.95	45.54
Texas.													
Abilene	0.68	1.54	0.98	0.30	1.46	8.22	0.44	0.91	0.94	0.01	0.01	0.12	15.61
Albany	1.37	1.62	1.35	0.44	0.90	6.84	0.35	0.37	1.40	T.	0.26	0.35	15.25
Alice	0.37	0.60	2.18	0.63	0.81	3.88	0.85	1.06	5.61	0.29	0.82	2.05	19.15
Alvin	3.78	0.61	2.53	7.29	3.60	17.09	6.82	2.04	15.16	3.20	0.40	3.65	66.17
Amarillo	2.10	1.19	0.68	0.39	2.09	7.75	4.17	5.77	0.76	0.28	T.	0.06	25.24
Anahuac	5.06	0.27	2.25	4.86	2.73	10.13	6.19	3.45	9.44	0.74	2.89	2.27	50.28
Anderson	2.35	2.27	5.24	8.42	1.31	12.11	2.17	0.12	5.51	0.47	1.70	3.60	45.27
Angleton	3.32	0.43	3.97	3.88	1.25	8.12	3.94	1.60	3.66	1.05	3.27	3.73	38.22
Arthur City	1.88	3.40	4.05	4.74	1.50	6.98	3.98	0.98	4.65	1.35	2.45	2.89	38.80
Aspermont	0.43	1.34	0.59	1.32	1.46	5.77	.....	.....	.....	.....	.....	.....	.....
Austin	2.20	0.82	2.84	10.43	2.70	8.22	1.09	T.	20.78	1.09	0.56	1.00	51.73
Austwell	2.80	0.80	4.45	2.50	0.35	22.06	3.24	0.00	8.32	0.87	1.03	2.28	48.70
Ballinger	1.65	1.05	1.90	1.10	3.02	4.85	T.	0.45	0.55	T.	T.	0.22	14.79
Beaumont	6.00	1.61	4.79	10.71	4.19	9.89	6.23	3.98	9.39	1.02	0.69	6.46	64.96
Beeville	1.29	1.25	2.65	2.00	2.51	1.88	1.73	0.50	9.45	.....	.....	.....	.....
Big Spring	0.29	0.91	1.38	0.13	2.12	3.53	1.12	1.00	1.36	0.21	T.	T.	12.05
Big Wells	0.00	0.00	1.26	1.40	2.18	3.50	0.00	0.00	1.73	0.27	0.24	1.00	11.58
Blanco	1.94	0.60	3.17	5.11	2.07	3.40	0.81	1.42	8.08	0.54	0.43	1.10	28.67
Boerne	2.16	0.87	3.35	4.81	2.35	3.87	1.02	0.90	9.69	1.02	1.39	1.38	32.81
Bonham	1.41	2.99	4.59	4.02	1.64	9.41	4.44	0.30	2.05	0.22	0.20	1.69	32.96
Bon Wier	4.39	2.16	6.00	9.10	3.74	6.79	6.16	1.72	4.28	1.99	2.37	7.60	56.30
Bowie	1.37	1.66	1.97	1.59	0.84	5.68	3.12	1.07	2.27	0.00	0.80	0.51	20.88
Brazoria	3.48	0.49	4.21	3.38	0.37	11.77	2.58	0.89	5.57	0.89	3.18	3.84	40.65
Brazos	1.80	2.00	0.80	1.70	1.00	4.30	0.90	0.40	0.80	0.00	0.30	0.10	14.10
Brenham	2.10	1.79	4.06	6.61	1.12	11.69	2.06	0.02	4.47	0.11	1.71	4.02	39.76
Bridgeport	1.66	2.64	0.95	1.91	0.89	5.24	6.30	0.75	1.62	0.00	0.30	0.85	23.11
Brownfield	0.20	0.98	1.08	1.55	2.27	7.24	1.19	0.27	3.79	.....	.....	.....	.....
Brownsville	2.26	0.65	0.88	0.52	2.40	4.59	2.81	0.14	3.82	1.90	1.22	0.17	21.36
Brownwood	0.90	1.30	2.90	1.07	1.27	2.23	0.05	0.10	0.97	T.	T.	0.07	10.86
Buena Vista	0.13	0.82	0.10	T.	1.10	2.62	1.50	0.80	1.54	T.	0.02	T.	8.63
Cameron	.....	.....	.....	.....	3.54	6.19	1.44	0.90	15.44	0.34	0.00	2.16	.....
Canadian	2.71	1.12	1.22	1.58	1.53	11.89	2.21	2.72	0.72	0.22	0.00	0.11	26.03
Chillicothe	0.50	1.10	1.96	1.33	0.59	9.63	0.82	1.03	1.20	T.	T.	0.12	18.28
Clarendon	1.20	0.87	0.54	0.90	2.82	11.37	2.54	1.60	1.37	0.00	T.	0.00	23.21
Clarksville	2.84	1.90	3.21	7.03	1.18	5.72	3.09	0.98	0.94	1.33	3.50	3.10	34.82
Claude	1.98	0.60	0.43	0.46	2.99	11.34	.....	0.77	0.76	0.00	0.00	0.00	.....
Claytonville	0.44	1.51	0.42	0.59	3.02	8.70	2.60	1.29	0.00	0.00	0.00	0.00	18.57
Cleburne	2.96	2.88	2.97	1.82	2.35	7.36	1.40	0.30	0.89	1.05	0.80	1.55	26.33
Clifton	2.25	2.06	2.81	3.80	3.69	4.73	3.21	1.88	3.04	0.21	0.54	1.51	29.73
Clint	0.05	0.40	T.	0.14	0.30	0.88	1.24	1.65	0.45	0.02	0.30	0.52	5.95
Coleman	2.18	2.09	1.40	1.38	2.75	6.01	0.24	0.94	1.00	T.	0.69	0.12	18.80
College Station	2.00	1.83	4.27	11.15	2.36	10.92	0.92	0.23	3.85	0.14	1.78	4.83	44.28
Colorado	0.26	0.89	1.48	0.42	0.87	4.99	0.48	1.09	2.27	T.	T.	0.06	12.81
Columbus	1.49	1.42	5.35	7.16	0.91	14.64	5.19	0.05	4.13	0.02	0.85	4.51	45.72
Conroe	2.27	2.50	3.92	5.70	1.03	11.00	5.38	2.05	1.55	0.15	1.45	3.52	40.52
Copperas Cove	1.00	1.34	3.99	4.26	1.41	5.75	1.06	0.35	5.07	0.00	1.35	1.75	27.33
Corpus Christi	2.07	0.17	2.25	0.44	2.72	5.89	0.75	0.32	3.88	0.08	0.66	1.26	20.49
Corsicana	2.38	2.10	1.73	4.83	2.61	6.58	0.15	0.51	3.80	0.93	0.70	2.72	29.04
Crosbyton	0.41	0.79	0.61	0.71	0.64	4.63	1.10	0.88	2.97	0.01	0.00	T.	12.75
Crowell	2.00	0.00	1.50	0.40	0.55	7.02	1.90	0.00	2.75	0.00	0.00	0.20	16.32
Cuero	1.32	1.23	3.02	1.34	1.10	6.87	1.60	0.32	5.50	0.68	1.14	1.14	25.26
Dalhart	1.80	0.40	0.60	0.76	3.70	5.82	5.12	0.94	0.04	0.54	0.00	0.31	20.03
Dallas	3.15	1.97	2.75	3.97	2.78	5.68	0.63	1.12	0.32	0.34	1.19	0.67	24.57
Danevang	2.35	2.15	7.08	1.71	0.25	12.45	4.25	1.65	4.45	0.00	4.25	2.50	43.09
Del Rio	0.18	5.78	1.92	1.31	1.05	3.25	1.73	0.49	0.12	0.13	0.36	T.	16.32
Denison (near)	1.47	3.11	2.14	3.05	1.55	6.65	3.87	2.20	1.15	0.00	7.93	1.29	34.41
Denton	2.47	2.28	1.82	5.02	2.52	2.27	2.57	1.16	0.74	0.10	0.23	1.71	22.89
Dialville	4.01	2.92	5.03	10.52	4.48	7.53	2.86	1.28	2.89	0.00	0.60	4.12	46.24
Dilley	0.49	0.23	3.23	0.82	2.28	1.58	0.32	T.	3.69	1.35	0.80	0.00	14.79
Dublin	2.40	4.26	5.97	7.27	.....	.....	.....	.....	.....	.....	.....	.....	.....
Eagle Pass	0.04	2.89	1.12	0.26	2.07	2.44	1.58	0.68	1.33	0.12	0.25	0.51	13.29
Eastland	1.38	2.51	1.64	0.72	1.47	6.20	0.39	0.13	0.76	0.55	0.15	1.55	17.45
Edna	1.96	1.36	3.67	4.58	1.98	17.85	5.06	1.49	5.21	0.00	2.89	1.22	47.27
El Paso	0.06	0.26	0.04	0.01	0.31	0.79	2.13	0.35	2.49	0.11	0.22	0.15	6.92
Encinal	0.30	0.28	1.22	1.07	2.69	1.16	1.34	T.	4.61	0.05	0.23	0.33	13.28
E. V. Ranch	0.00	0.00	0.00	0.00	0.50	1.00	5.20	1.75	.....	.....	.....	.....	.....
Fairland	1.11	0.73	2.20	3.29	1.39	7.94	0.72	0.25	9.40	.....	.....	.....	.....
Falfurrias	0.50	0.24	1.67	0.18	1.00	3.20	0.68	0.71	2.95	0.74	1.05	0.26	13.18
Finley	3.25	0.55	4.45	7.10	2.25	9.72	3.20	0.90	3.90	0.55	1.57	2.82	40.26
Flatonia	2.66	1.13	3.56	4.27	1.24	11.56	2.52	T.	.....	.....	.....	2.83	.....
Flint	2.83	2.18	4.03	6.67	2.05	6.51	2.30	0.22	5.12	0.53	0.50	.....	.....
Floresville	1.00	0.85	2.45	3.80	3.28	1.40	0.15	0.30	4.95	0.75	T.	2.50	21.43
Fort Clark	0.50	6.15	3.35	1.40	6.10	1.75	2.25	0.50	0.88	1.85	0.53	T.	25.26
Fort Davis	0.09	0.21	0.41	0.00	1.91	4.61	2.34	0.53	0.00	0.00	0.00	0.00	10.10
Fort McIntosh	0.13	0.09	0.76	0.35	3.33	1.90	1.56	0.00	2.28	0.13	0.05	0.32	10.90
Fort McKavett (near)	0.40	1.20	1.69	1.25	0.61	4.02	0.03	2.60	0.13	0.40	0.12	0.05	12.50
Fort Stockton	T.	1.40	T.	0.10	0.98	2.63	0.58	1.72	2.74	0.12	0.05	T.	10.32
Fort Worth	2.87	2.62	2.67	1.99	1.04	2.63	1.14	0.95	0.11	0.31	1.24	0.34	17.91
Freeport	2.05	0.45	3.75	5.00	0.75	10.35	8.50	0.15	6.00	3.50	0.85	2.10	43.45
Gainesville	1.34	3.15	2.29	3.60	1.88	4.98	2.14	0.00	0.76	0.11	3.41	1.51	25.17
Galveston	2.77	0.30	3.59	2.47	2.04	4.97	5.77	1.42	8.37	3.83	1.61	2.76	39.90
Garden City	0.12	1.18	0.92	0.84	1.08	5.17	T.	2.27	0.33	0.07	0.00	0.10	12.08
Gatesville	2.00	.....	3.04	4.66	1.72	4.25	0.00	0.48	2.40	0.52	1.20	1.70	.....
Georgetown	2.06	0.78	2.29	6.00	3.43	8.07	1.65	0.31	15.24	1.81	0.67	1.41	43.72
George West	1.64	0.47	1.90	1.86	1.85	0.57	1.98	0.24	12.00	.....	0.53	0.24	.....
Goliad	1.64	1.06	4.25	4.30	2.26	5.12	0.89	0.18	6.75	2.00	0.88	1.90	31.23
Gonzales	1.16	1.02	2.81	3.57	1.67	6.85	3.29	0.80	4.42	0.51	0.81	2.28	29.19

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Texas—Continued.													
Goose Creek	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.37	3.84	.....
Graham	1.54	1.89	1.97	0.53	1.59	5.01	2.40	0.00	2.31	.....	1.15	0.42	.....
Greenville	2.97	2.91	3.10	3.20	0.54	7.53	3.46	1.58	2.45	0.47	1.50	1.77	31.48
Groesbeck	1.61	1.19	2.64	6.74	2.49	5.98	0.36	0.49	1.85	0.77	0.33	2.04	26.49
Hallettsville	2.00	2.10	5.63	4.74	2.40	10.06	2.89	1.20	3.32	0.04	1.59	1.98	37.95
Hamilton	1.65	1.30	1.25	2.05	2.85	5.32	0.75	1.85	1.94	0.50	0.75	0.57	20.78
Hamlin	.....	1.63	1.12	.....	0.00	4.99	1.97	.....	1.11	.....	.....	0.00	.....
Harlingen	0.25	0.62	2.66	1.93	2.79	2.06	2.95	0.11	4.53	2.57	1.02	0.07	21.56
Haskell	1.03	1.23	0.82	1.67	1.38	7.51	0.47	T.	4.04	0.00	0.00	0.21	18.36
Hebbronville	0.33	0.20	5.54	2.53	0.00	0.66	0.00	0.00	2.88	1.16	0.62	0.51	14.43
Hempstead	1.99	2.14	4.82	7.39	2.25	11.51	1.94	0.32	3.77	0.34	0.93	3.48	40.88
Henderson	4.21	2.63	4.35	9.75	2.37	4.28	3.14	1.36	5.66	0.26	0.86	3.87	42.74
Henrietta	0.35	1.50	0.90	1.20	2.25	4.20	2.25	2.00	1.80	T.	0.40	0.40	17.25
Hewitt	1.57	1.32	2.37	4.53	2.69	5.45	3.37	0.39	1.61	1.30	0.22	3.17	27.99
Hico	3.06	2.11	1.22	2.28	1.36	2.26	1.07	1.10	2.86	0.00	0.75	0.39	18.46
Hillsboro	2.27	1.83	3.15	3.78	2.00	5.52	1.40	0.70	0.50	0.32	1.10	2.05	24.62
Hill's Ranch	2.15	0.76	3.54	8.67	2.91	7.43	2.24	0.00	18.21	0.94	0.30	1.48	48.63
Hitchcock	4.44	0.67	2.37	4.17	1.96	8.37	6.34	0.53	9.40	5.06	2.68	3.08	49.07
Hondo	0.86	0.41	4.30	3.97	4.61	7.40	0.23	0.70	6.55	0.82	0.35	1.35	31.55
Honey Grove	2.52	2.57	3.43	5.05	1.28	8.65	2.55	1.37	2.89	0.18	1.61	2.30	34.40
Houston	3.58	1.45	3.04	3.38	1.57	6.78	1.95	1.66	4.02	1.15	1.91	3.50	33.99
Huntsville	2.50	3.95	4.35	10.85	1.30	12.75	.....	.....	.....	.....	.....	.....	.....
Index	3.01	2.20	4.14	7.40	1.24	2.96	3.25	2.62	4.06	0.86	1.73	2.26	35.73
Jefferson	3.18	2.14	4.47	14.18	1.23	7.62	3.58	T.	0.50	0.66	1.14	3.69	42.39
Jourdanton	0.91	2.51	3.83	3.40	1.15	.....	T.	0.78	.....	.....	0.00	1.56	.....
Junction	0.41	1.90	3.63	1.65	1.80	3.25	1.30	1.60	1.35	0.30	0.10	0.30	17.59
Karnes City	0.89	1.36	1.78	3.07	2.75	2.23	1.77	0.72	6.49	0.62	0.91	0.60	23.19
Kaufman	3.91	1.98	1.70	5.00	1.33	7.06	1.90	0.61	1.77	0.21	0.92	2.05	28.44
Kerrville	0.95	0.52	2.69	2.40	2.51	9.91	0.48	0.13	3.50	0.85	0.38	0.83	25.15
Knickerbocker	0.20	0.68	2.80	0.50	1.83	2.35	1.10	2.35	0.85	0.25	0.10	0.00	13.01
Kopperl	3.20	1.60	1.90	1.20	1.10	3.60	4.90	1.10	1.60	0.10	1.20	0.90	22.40
La Grange	2.45	2.11	2.93	5.88	2.68	11.42	2.04	0.15	3.76	0.16	0.78	2.52	36.88
Lamesa	.....	1.20	0.84	0.25	1.25	5.82	.....	0.44	2.84	0.30	T.	0.00	.....
Lampasas	1.48	1.02	3.00	2.84	1.31	4.41	0.54	1.02	3.37	0.07	1.36	1.94	22.39
La Parra	0.93	0.75	3.20	2.11	2.10	4.23	0.65	0.00	5.75	0.55	1.63	0.55	22.46
La Pryor	0.14	1.77	0.81	2.55	0.94	3.02	1.52	1.85	1.18	0.99	1.32	0.00	16.05
Laredo	0.16	T.	1.08	0.20	2.44	2.37	1.07	T.	6.40	0.12	0.00	0.00	13.84
Liberty	4.22	1.12	3.65	5.72	2.22	4.97	5.34	0.56	5.71	1.12	1.04	7.19	42.86
Lieb	1.66	3.00	1.21	1.57	2.04	6.42	2.53	.....	1.12	0.33	0.00	.....	.....
Llano	0.98	0.80	2.71	2.81	1.40	4.28	0.07	0.24	2.09	1.25	1.03	0.68	18.34
Long Lake	2.40	1.85	3.67	8.56	5.25	8.86	1.65	1.40	2.31	0.30	0.30	2.57	39.12
Longview	3.11	2.03	2.73	6.92	2.33	9.37	3.80	1.07	2.28	1.71	2.77	4.10	42.22
Lubbock	0.22	0.45	1.47	0.24	0.43	7.71	0.84	0.92	4.50	0.02	T.	T.	16.80
Lufkin	2.80	4.26	6.73	5.53	2.40	.....	6.02	2.20	.....	.....	.....	.....	.....
Luling	2.65	2.34	2.63	3.71	3.50	6.22	4.96	1.04	4.98	4.09	0.44	1.97	38.53
McGregor	1.30	1.20	2.95	3.50	2.60	5.45	0.98	1.05	1.45	0.48	1.57	0.80	23.33
McKinney	2.85	3.34	4.37	4.34	3.53	4.04	1.13	0.40	2.76	0.42	0.34	1.46	28.98
Madisonville	2.59	2.28	5.14	11.09	.....	.....	.....	.....	.....	.....	.....	.....	.....
Marble Falls	2.11	0.68	2.62	3.47	1.95	7.98	0.45	0.34	17.50	1.09	0.85	2.78	41.82
Marshall	.....	2.65	3.85	16.20	1.41	5.69	4.82	2.44	1.50	0.75	1.15	4.83	.....
Matagorda	3.29	1.10	2.00	5.74	1.60	16.47	2.15	0.84	8.45	0.00	0.07	2.09	43.80
Mathis	1.08	0.00	3.04	0.63	2.38	2.63	2.28	1.27	9.19	0.00	2.44	1.33	26.27
Memphis	1.39	0.90	0.90	0.62	2.00	7.84	3.04	2.70	4.60	0.10	T.	T.	24.09
Mercedes	0.80	0.79	0.60	3.05	1.10	1.43	2.15	1.51	6.86	0.17	1.21	0.02	19.69
Mexia	2.05	1.43	1.90	7.89	4.36	5.51	0.22	0.82	1.03	0.21	0.88	1.10	27.40
Miami	1.90	1.20	1.60	2.47	1.46	9.28	1.98	4.93	2.20	0.27	0.00	0.25	27.54
Midland	0.00	1.80	0.44	0.20	1.12	1.92	0.00	1.41	2.51	0.49	0.00	0.00	9.89
Mission	0.00	0.00	1.00	1.60	0.00	1.29	1.94	0.00	0.97	0.30	0.86	0.00	7.96
Montell	0.39	2.57	2.65	0.82	3.05	3.53	1.57	0.43	3.47	1.03	0.32	0.18	20.01
Morris Ranch	1.31	0.49	2.77	3.35	1.82	5.37	1.46	0.64	2.02	2.33	1.14	0.17	22.87
Mount Pleasant	3.32	1.20	4.70	6.88	1.71	6.68	4.52	2.61	2.48	0.05	2.45	2.35	38.95
Muleshoe	.....	.....	.....	.....	.....	.....	.....	1.05	3.02	0.00	0.00	0.00	.....
Munday	1.41	2.34	0.57	1.55	1.07	8.49	1.30	0.68	4.21	0.08	0.00	0.12	21.82
Nacogdoches	3.12	2.16	7.28	6.30	1.71	5.90	7.10	3.21	3.22	1.05	0.61	4.20	45.86
Navasota	3.02	2.58	4.79	6.44	1.50	10.45	3.31	0.30	4.81	0.40	2.79	3.53	43.92
New Braunfels	3.11	0.67	5.70	5.60	1.68	5.04	0.23	0.90	10.07	0.98	0.38	1.16	35.52
Nixon	.....	.....	.....	.....	.....	7.53	1.42	0.13	4.71	1.66	0.33	1.43	.....
Orange	2.88	1.43	2.43	6.88	3.42	5.89	8.20	1.45	7.97	1.02	1.02	5.12	47.71
O 2 Ranch	T.	T.	0.25	T.	2.20	3.75	1.60	0.70	0.60	1.00	0.20	T.	10.30
Paducah	1.60	1.05	0.95	0.60	0.54	7.64	0.95	0.65	2.72	0.08	T.	T.	16.78
Paint Rock	0.87	0.90	1.48	0.75	2.48	4.16	0.50	2.00	.....	0.00	0.20	0.12	.....
Palestine	2.87	2.16	3.55	6.75	6.61	11.17	1.27	0.84	1.25	0.21	0.43	2.92	39.53
Panhandle	2.05	1.00	0.00	0.00	2.05	8.45	1.55	4.65	3.00	0.35	0.00	0.00	23.10
Paris	2.80	3.92	2.82	6.46	3.11	11.07	7.34	1.02	4.45	0.58	3.47	1.99	49.03
Pearsall	0.70	0.16	3.60	4.17	1.95	2.02	0.66	0.16	2.90	1.15	1.45	0.00	18.92
Pierce	2.52	1.30	9.59	1.98	1.84	11.83	8.94	1.68	6.66	0.04	6.60	1.89	54.87
Plainview	1.02	0.87	0.49	0.11	2.35	10.42	4.56	2.09	1.89	0.10	0.08	0.06	24.04
Port Arthur	1.60	1.67	2.42	3.13	2.95	5.12	6.73	3.90	8.34	1.28	3.84	2.53	43.51
Post	0.30	1.03	0.67	0.13	0.89	7.57	1.38	4.60	6.10	0.00	0.00	T.	22.67
Putnam	0.98	2.45	1.06	0.61	1.30	7.29	0.67	0.00	2.13	0.00	0.15	0.34	16.98
Quanah	0.10	1.20	1.10	1.75	0.48	13.79	0.72	0.88	3.56	0.00	T.	T.	23.58
Raymondville	0.52	0.84	2.36	0.94	1.50	4.69	T.	.....	.....	0.08	1.27	0.00	.....
Ricardo	0.55	0.05	3.95	7.82	0.21	2.89	0.54	2.04	4.41	0.09	2.33	0.25	25.13
Ringo Crossing	2.95	1.91	3.85	4.82	2.09	7.60	3.85	0.88	3.27	0.30	1.27	2.06	34.85
Rio Grande	.....	.....	.....	.....	.....	.....	1.60	0.00	0.15	0.35	0.30	0.00	.....
Riverside	3.10	2.54	4.15	10.73	2.73	8.68	5.02	3.25	1.45	0.00	1.60	4.40	47.65
Rochelle	1.02	1.27	1.64	2.35	1.28	4.69	0.00	0.00	0.90	0.00	0.38	0.00	13.53
Rockland	3.78	1.35	5.03	9.20	1.05	6.40	7.05	2.33	2.05	0.65	3.55	2.90	45.34
Romero	2.24	0.44	0.97	0.07	4.45	5.99	3.09	1.71	0.33	0.02	T.	0.00	19.31
Rosenberg	2.11	2.31	2.34	2.76	0.52	9.91	2.95	T.	6.28	0.20	0.72	3.17	33.27
Rossville	1.42	0.54	4.71	4.14	2.69	2.42	1.22	T.	1.44	0.41	.....	.....	.....
Runge	1.33	1.56	4.56	4.87	1.11	3.91	3.26	0.28	5.04	1.81	0.93	1.42	30.08
Sabinal	0.60	0.51	3.18	3.02	4.40	5.82	1.01	0.06	2.25	0.93	0.31	1.58	23.67
San Angelo	0.33	0.77	2.66	0.62	2.20	3.89	0.17	0.82	0.70	T.	T.	0.15	12.31
San Antonio	1.40	0.23	5.91	2.78	2.01	4.59	0.48	0.45	8.27	1.02	1.16	0.23	28.53
San Benito	0.80	0.72	0.94	2.09	3.55	1.67	1.34	0.32	3.36	1.85	1.01	T.	17.65

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Texas—Continued.													
San Marcos	2.66	1.45	9.40	8.00	2.40	7.00	0.80	0.00	12.64	0.50	0.00	0.00	44.85
Santa Gertrudis	1.40	0.65	7.35	4.05	0.00	3.09	3.12	0.53	4.66	0.00	0.81	1.22	26.88
Sealy	2.26	4.20	4.12	4.75	3.34	10.22	5.74	0.80	4.18	0.16	1.58	2.65	44.00
Sherman	1.51	2.60	4.14	3.54	1.37	11.10	3.06	0.76	2.39	T.	3.85	1.17	35.49
Sinton	.....	.....	.....	.....	.....	.....	.....	.....	5.68	1.99	0.08	3.52	.....
Smithville	2.50	2.13	6.52	5.20	1.43	9.61	2.25	0.13	5.53	0.15	0.99	1.92	38.36
Snyder	0.13	.....	1.05	0.30	0.87	7.05	0.70	0.40	3.15	0.70	0.00	.....	.....
Somerville	2.90	1.55	5.65	7.80	2.35	10.80	1.00	1.10	3.15	1.70	1.30	2.50	41.80
Spearman	1.78	1.00	0.56	1.36	1.82	8.58	3.11	1.65	1.00	0.12	0.00	T.	20.98
Stephenville	2.63	2.60	0.52	2.92	.....	.....	.....	0.57	0.83	0.50	0.03	0.44	.....
Sugarland	3.07	2.67	3.57	2.61	1.29	8.01	5.24	0.28	4.93	0.10	2.86	1.98	36.61
Taylor	2.17	1.26	2.13	6.78	2.15	4.46	1.41	0.91	25.87	0.20	0.97	0.91	49.22
Temple	0.90	0.96	4.59	8.56	2.74	6.62	3.84	0.95	11.94	0.42	0.73	3.15	45.40
Trinidad	2.60	2.56	2.59	5.60	3.28	9.56	0.83	0.51	4.79	0.20	0.36	2.43	35.31
Troup	2.86	2.55	3.73	8.07	3.30	10.14	2.54	1.60	3.13	T.	0.72	2.61	41.25
Uvalde	0.46	0.78	4.09	0.60	5.22	2.92	1.44	0.40	1.46	1.55	0.38	0.20	19.50
Valley Junction	2.42	1.40	3.36	9.21	3.52	9.13	0.89	0.65	3.42	0.10	0.25	3.36	37.71
Vernon	0.75	1.75	2.20	0.02	0.00	6.00	.....	.....	.....	.....	.....	.....	.....
Victoria	2.22	2.02	5.78	5.46	0.78	9.28	4.05	1.10	6.16	0.00	0.53	2.44	39.82
Waco	1.60	1.24	3.16	4.10	2.92	4.81	2.14	0.33	1.40	0.58	0.18	3.91	26.37
Waxahachie	3.20	1.65	3.15	3.45	1.85	4.25	1.15	0.10	0.55	0.80	0.92	1.30	22.37
Weatherford	2.77	2.65	0.72	5.38	0.88	8.94	2.52	0.09	1.91	0.20	.....	.....	.....
Whitsett	0.93	0.45	1.90	1.97	2.13	4.79	3.13	2.08	7.36	0.00	0.62	0.64	26.00
Willis	2.30	1.50	6.45	6.75	.....	9.30	2.50	2.00	2.80	0.60	2.00	2.50	.....
Wills Point	3.80	1.73	1.63	4.76	1.00	7.80	1.37	0.65	3.01	0.70	0.00	1.47	27.92
Winfield (near)	4.41	2.55	2.85	9.07	1.40	9.54	3.75	2.86	2.65	0.47	2.60	0.91	43.06
Winters	.....	0.78	1.68	0.55	3.49	6.05	0.00	0.36	1.60	.....	0.00	0.50	.....
Woodsboro	1.14	1.24	7.11	.....	2.48	5.30	2.42	1.27	10.84	1.21	2.03	2.11	.....
Yoakum	1.75	2.74	2.66	3.50	1.01	12.65	4.97	T.	4.35	T.	0.47	2.22	36.32
Utah.													
Alpine	2.50	3.15	2.31	2.47	4.02	0.00	1.94	1.02	0.42	1.38	0.55	2.30	22.06
Alton	2.23	0.53	0.81	0.98	1.10	0.90	2.70	3.02	0.13	1.51	0.60	5.59	20.10
Alunite	2.11	0.43	1.10	0.85	1.43	0.09	1.14	1.68	0.09	1.04	0.46	2.00	12.42
Baker Ranger Station	0.95	0.29	1.05	1.74	1.61	1.78	2.79	3.44	0.12	.....	.....	1.85	.....
Beaver	1.60	1.60	1.70	4.20	.....	0.00	2.18	2.84	0.55	2.21	0.55	1.27	.....
Benmore	1.55	0.56	2.07	1.56	2.09	0.83	1.51	0.69	0.93	1.77	0.30	2.09	15.95
Big Plains	3.40	0.00	1.39	.....	0.95	0.00	2.04	2.73	0.00	2.01	0.75	4.47	.....
Black Rock	0.35	T.	1.35	2.16	2.47	T.	0.75	1.26	0.15	0.81	T.	0.65	9.95
Blacks Fork	1.67	2.03	2.89	2.30	1.89	1.89	1.28	1.83	.....	.....	.....	.....	.....
Blanding	0.47	T.	0.70	0.98	1.74	0.74	2.68	2.38	0.01	1.65	0.51	2.64	14.50
Bluff	0.49	0.20	0.85	1.15	0.42	0.41	0.15	1.50	0.00	0.75	0.04	.....	.....
Boneta	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.20	1.10	.....
Brigham City	2.83	1.60	2.72	3.43	2.56	0.16	0.09	0.83	0.79	1.73	0.84	5.48	23.06
Cannonville	.....	.....	.....	0.24	0.82	.....	.....	.....	.....	.....	T.	0.75	.....
Castle Dale	0.73	0.24	0.15	0.31	1.13	0.78	1.67	5.02	0.30	0.30	T.	1.24	11.87
Castle Rock	1.43	1.00	1.56	1.81	1.10	0.56	0.75	1.42	0.78	1.28	1.04	2.68	15.41
Cedar City	0.82	0.09	.....	.....	.....	0.02	1.56	4.24	0.05	2.83	0.50	2.40	.....
Clarkston	1.35	1.05	2.10	3.95	3.60	0.80	0.50	0.95	0.30	1.24	1.60	2.40	19.84
Cottonwood Weir	1.76	1.44	2.54	3.54	1.87	0.61	1.95	1.91	0.99	2.44	0.81	2.52	22.38
Corinne	1.40	0.80	1.70	2.29	2.33	0.00	0.10	0.43	0.85	1.30	0.85	.....	.....
Delle	0.30	0.40	T.	0.90	1.68	T.	T.	1.38	0.20	0.89	0.25	0.97	6.97
Deseret	0.55	0.30	0.53	1.85	2.66	0.12	0.58	0.49	0.15	0.85	0.14	0.84	9.06
Dry Gulch Ranger Station	2.32	.....	.....	.....	3.19	0.87	.....	4.01	0.47	0.50	.....	.....	.....
Duchesne	1.05	0.20	T.	0.47	0.85	1.22	0.37	2.29	0.20	0.13	T.	1.25	8.03
East Portal	2.72	1.89	1.22	1.59	1.93	0.46	1.28	3.92	1.07	0.79	0.25	4.06	21.18
Elferta	0.96	0.42	1.36	1.69	1.71	0.20	1.36	1.23	1.21	1.00	0.25	1.04	12.43
Elkhorn Ashley	0.92	0.84	0.31	1.70	3.61	1.26	1.52	1.20	0.53	0.77	T.	2.20	14.86
Elkhorn Fishlake	.....	.....	.....	.....	.....	.....	3.17	3.08	.....	.....	.....	.....	.....
Emery	0.10	0.00	T.	0.30	0.10	T.	.....	.....	.....	.....	T.	1.00	.....
Enterprise	.....	.....	.....	.....	.....	.....	.....	2.16	0.47	2.78	0.10	6.45	.....
Erekson	1.39	1.52	1.39	1.33	4.14	0.28	1.97	0.77	0.62	1.62	.....	.....	.....
Escalante	.....	.....	.....	0.00	.....	0.00	1.02	4.40	0.00	0.90	0.30	4.30	.....
Farmington	2.03	2.06	1.63	4.96	2.41	0.53	0.60	0.78	0.70	1.85	0.97	3.57	22.09
Fillmore	1.31	0.99	1.15	3.61	1.62	0.07	1.26	0.93	0.27	1.27	0.44	1.02	13.94
Fishlake	.....	.....	.....	.....	.....	0.77	1.88	3.52	.....	.....	.....	.....	.....
Fort Duchesne	0.41	0.03	0.03	1.61	1.21	0.13	0.97	1.02	0.13	0.15	0.24	1.24	7.17
Fruitland	1.19	0.54	2.40	1.39	1.04	0.32	0.82	4.16	0.84	1.21	T.	3.09	17.00
Garland	2.66	1.35	1.72	2.21	4.50	0.38	0.32	1.00	0.51	1.08	1.00	.....	.....
Gooseberry Ranger Station	.....	.....	.....	.....	.....	0.39	1.40	2.14	0.28	0.88	.....	.....	.....
Government Creek	1.43	0.91	1.24	1.68	2.29	0.33	0.26	0.42	1.21	1.34	0.13	1.66	12.90
Grantsville	0.79	0.67	1.19	2.50	0.88	0.23	0.75	1.18	0.27	0.96	0.28	2.26	11.96
Great Basin Experiment Station	.....	3.75	3.35	.....	1.89	0.52	2.50	4.70	0.39	2.02	0.96	.....	.....
Great Basin Experiment Station, Alpine	.....	3.60	4.00	.....	1.10	T.	3.51	3.75	0.55	1.43	0.50	.....	.....
Great Basin Experiment Station, Oak Brush	.....	.....	.....	.....	1.81	0.23	2.04	2.75	0.30	1.38	0.67	.....	.....
Green River	0.92	0.14	0.26	0.69	1.06	0.69	0.40	3.40	T.	0.90	0.30	1.12	9.88
Hanksville	0.32	0.03	0.04	0.06	0.41	0.61	0.04	1.40	0.00	0.17	0.06	0.40	3.54
Hatch	1.51	0.28	0.23	0.83	1.29	0.35	2.39	4.13	0.13	2.07	0.09	3.65	16.98
Heber	3.25	2.18	2.79	1.61	1.27	0.28	2.08	1.48	0.80	0.93	0.46	4.73	21.86
Hiawatha	.....	.....	.....	.....	.....	.....	.....	.....	0.70	0.76	0.07	2.19	.....
High Line City Creek	2.91	3.13	3.28	4.88	3.54	0.88	0.13	1.33	0.70	2.00	1.07	3.86	27.71
Hole-in-the-Rock	0.31	0.65	1.17	2.35	0.98	1.85	0.87	2.57	0.75	0.68	0.35	1.72	14.25
Hoytsville	.....	.....	.....	.....	.....	.....	.....	.....	0.97	1.58	0.47	1.06	.....
Huntsville	3.11	3.80	1.25	2.29	1.12	.....	0.75	1.00	0.17	1.89	1.86	3.95	21.44
Hurricane	1.89	0.02	0.81	0.54	0.90	T.	0.12	1.96	0.12	1.51	0.55	4.07	12.55
Ibapah	0.50	0.40	0.91	3.51	3.51	0.24	0.78	2.69	0.37	0.32	0.25	1.50	14.98
Joseph	.....	0.23	.....	.....	0.61	0.09	0.64	0.87	0.13	0.76	0.70	0.95	.....
Jozalla Ranch	1.13	0.09	0.96	0.60	1.34	0.00	1.21	2.81	0.25	0.64	T.	4.40	13.43
Kanab	2.54	T.	1.53	0.50	0.71	0.17	0.82	3.52	.....	.....	.....	.....	.....
Kanosh	1.01	0.25	1.73	3.14	0.76	0.23	0.42	0.82	0.17	1.10	0.78	0.75	11.16
Kelton	0.85	0.62	0.21	0.89	1.53	T.	T.	1.50	0.20	0.10	0.61	2.27	8.78
Koosharem	0.60	0.40	0.04	0.50	0.03	0.01	0.07	0.21	0.01	0.04	0.10	1.38	3.37
Laketown	0.92	0.73	0.83	9.95	0.79	0.37	0.36	1.52	0.15	1.21	0.78	2.01	11.62
La Sal	0.93	0.37	0.28	1.55	1.53	1.64	1.96	2.22	0.58	1.91	0.94	1.79	17.19
Leeds (near)	3.90	T.	1.45	0.65	0.70	0.00	T.	1.85	T.	1.50	0.00	10.30	20.35

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Utah—Continued.													
Lehi	1.48	1.30	2.23	1.90	2.90	0.00	1.73	.....	0.37	0.95	0.15	2.23	.....
Lemay	0.10	.....	T.	0.10	0.27	0.00	0.00	0.27	0.05	0.02	0.03	.....	.....
Levan	1.50	0.92	0.09	2.59	2.69	0.77	1.96	1.26	0.33	0.94	0.31	2.03	15.90
Loa	.....	.....	.....	.....	.....	.....	.....	.....	0.60	0.91	0.62	1.50	.....
Lockerby	0.71	0.30	0.88	2.44	1.89	1.68	2.17	3.17	0.05	1.65	1.17	2.33	18.44
Logan	1.48	1.22	2.77	3.64	1.50	0.01	T.	0.74	0.34	1.28	0.72	4.63	18.33
Lone Tree	0.32	0.02	0.33	1.95	2.04	0.89	0.59	0.64	0.17	0.29	0.25	1.82	9.31
Lower American Fork	4.23	1.55	2.62	2.59	3.11	0.14	1.07	0.96	0.71	1.11	0.38	1.85	20.32
Lower Mill Creek	2.24	1.95	2.42	4.18	2.26	.....	0.30	.....	.....	.....	1.06	4.36	.....
Lucin	0.39	0.70	0.26	0.90	1.10	T.	T.	0.45	0.10	0.02	T.	1.55	5.47
Lund	0.40	0.00	0.25	.....	.....	.....	0.26	1.93	0.00	.....	.....	2.40	.....
McCornick	0.77	0.51	1.11	3.09	1.55	0.00	0.47	1.01	0.33	1.01	0.08	0.81	10.74
Mammoth Ranger Station	.....	.....	.....	.....	.....	.....	2.89	2.27	1.07	.....	.....	.....	.....
Manila	0.00	0.21	0.38	1.42	1.63	1.85	0.00	0.71	0.54	0.10	0.43	0.34	7.61
Manti	1.49	1.30	0.84	1.95	1.79	0.29	1.10	2.63	0.39	0.61	0.38	1.46	14.23
Maplewood	3.47	2.56	2.70	2.50	3.45	0.15	0.75	2.19	0.85	1.58	0.87	2.07	23.14
Midlake	0.09	0.08	0.40	0.05	1.55	T.	0.80	0.03	0.30	0.40	0.43	2.00	6.13
Midvale	0.97	0.85	1.52	2.43	1.00	0.17	1.67	1.26	0.52	1.41	0.55	2.61	14.96
Milford	0.66	0.19	0.87	2.39	0.52	T.	0.51	1.23	0.11	1.00	0.62	1.26	9.36
Mills	0.82	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.20	.....	.....
Millville	.....	.....	.....	.....	1.75	0.00	0.01	0.90	0.30	1.34	1.30	4.09	.....
Moab	0.68	0.26	0.37	1.45	1.35	0.37	1.12	2.33	0.00	0.51	0.65	1.59	10.68
Modena	1.27	0.16	1.09	1.33	1.25	0.01	2.50	2.44	0.23	1.97	0.18	2.14	14.57
Monticello	.....	.....	.....	1.02	.....	0.44	2.27	2.98	0.54	.....	.....	.....	.....
Morgan	1.95	3.10	1.50	1.81	1.17	0.05	0.85	1.23	0.18	1.90	1.40	3.30	18.44
Moroni	0.89	0.73	0.57	1.15	1.60	0.15	1.12	2.58	0.41	0.62	0.10	1.33	11.25
Mosida	0.73	0.59	1.41	1.12	2.14	0.26	0.42	0.89	0.77	1.00	0.15	1.17	10.65
Mountain Dell	1.18	1.25	2.91	2.23	1.97	0.33	0.74	2.74	0.91	1.84	0.79	2.57	19.46
Mountain Ranch Ranger Station	.....	.....	.....	.....	.....	0.00	0.52	2.67	0.32	.....	.....	.....	.....
Myton	0.39	T.	0.00	0.79	0.65	0.21	1.15	1.41	0.53	0.59	0.17	0.93	6.82
Nada	1.36	0.06	0.85	1.79	0.92	0.00	0.89	0.99	0.10	1.43	0.46	2.04	10.89
Nephi (near)	1.57	1.27	0.71	2.25	2.41	0.24	1.03	.....	0.56	0.75	0.32	1.88	.....
New Harmony	4.86	T.	.....	.....	.....	0.00	0.70	2.10	2.06	3.06	.....	9.88	.....
Oak City	1.86	0.68	1.10	2.30	2.64	0.16	0.44	2.79	0.58	1.24	0.15	1.36	15.30
Ogden	2.66	2.22	1.68	2.68	2.24	0.30	0.34	0.87	0.84	1.94	0.70	3.94	20.41
Orderville	3.17	0.08	1.22	1.24	1.07	0.11	1.43	3.26	0.05	1.04	0.64	5.44	18.75
Panguitch	.....	0.28	0.25	0.30	0.52	0.00	1.60	2.00	0.00	2.60	0.25	1.50	.....
Park City	3.90	1.90	1.25	1.65	1.02	0.41	0.75	1.17	0.33	2.20	0.65	6.10	21.33
Park Valley	1.56	1.16	0.24	1.32	2.60	0.59	1.77	1.06	0.42	0.17	0.57	1.54	13.00
Parowan	0.83	0.30	0.74	2.47	0.93	0.00	0.71	4.77	0.10	2.76	1.36	2.05	17.01
Payson	1.55	1.29	1.83	1.96	1.57	0.04	0.98	0.96	1.73	1.30	0.68	2.10	15.99
Pine View	1.70	2.00	3.00	2.60	0.60	0.60	1.00	1.00	0.40	.....	.....	3.30	.....
Pinto	2.53	1.13	1.15	1.85	1.24	0.18	0.30	2.62	0.67	2.94	0.24	5.09	19.94
Plute Dam	0.35	0.26	0.68	0.30	1.28	0.07	0.62	1.04	0.10	0.57	0.38	1.09	6.74
Price	1.66	0.48	0.22	0.46	1.91	1.16	0.81	4.32	0.22	0.47	0.08	1.95	13.74
Provo	2.79	1.96	2.78	2.06	4.40	0.31	0.60	1.37	0.68	1.55	0.41	2.65	21.56
Provo Bench	2.91	1.80	2.94	2.80	4.29	0.36	1.00	0.90	0.91	1.46	0.65	2.36	22.38
Randolph	0.45	0.40	0.55	1.20	0.65	0.80	0.45	1.70	0.34	1.50	0.30	2.34	10.68
Richfield	1.05	0.41	0.75	1.44	1.12	T.	.....	.....	.....	0.40	0.75	1.50	.....
Richmond	2.39	1.58	2.54	4.44	2.65	0.29	1.07	0.47	0.50	1.36	0.86	5.70	23.85
Riverdale	1.84	1.97	0.68	2.10	2.39	0.39	0.06	0.20	0.00	1.45	1.04	2.83	14.95
Round Valley	1.08	1.12	1.32	1.20	1.93	0.72	1.10	2.30	0.44	0.53	0.35	.....	.....
St. George	1.92	0.03	0.70	0.18	0.49	0.06	0.18	1.75	0.15	1.15	0.25	3.17	10.03
St. John	0.84	0.82	0.55	1.52	2.53	T.	1.30	1.40	0.27	1.47	0.15	1.07	11.92
Salduro	0.30	0.07	0.20	0.65	1.55	0.18	0.01	0.51	0.01	0.09	0.20	2.05	5.82
Saltair	0.56	0.46	1.06	2.61	2.35	0.35	0.52	0.77	0.52	1.34	1.03	2.42	13.99
Salt Creek	2.26	3.29	0.33	0.74	3.93	0.00	0.38	2.23	0.40	1.31	.....	3.30	.....
Salt Lake City	1.44	1.06	1.03	2.65	1.95	0.08	0.36	0.82	0.44	1.29	1.04	2.29	14.45
Santaquin	3.02	2.43	2.73	2.86	1.62	T.	0.69	1.93	0.89	2.06	0.35	1.77	20.35
Scipio	0.88	0.55	0.87	1.51	1.95	0.25	0.74	1.05	0.56	0.76	0.17	1.55	10.84
Sells	0.60	0.28	0.68	1.29	2.80	0.06	0.62	0.20	0.43	1.16	0.15	0.69	8.96
Silver Lake	7.15	4.81	5.47	4.51	4.40	0.69	1.79	2.83	1.59	3.05	1.94	12.34	50.57
Snake Creek	4.37	2.66	3.69	2.73	2.07	0.29	2.32	1.38	0.66	1.38	0.85	7.50	29.00
Snowville	1.42	1.01	0.36	2.55	2.62	0.53	0.24	0.67	0.08	1.68	1.51	1.36	14.03
Soldier Summit	.....	.....	.....	1.17	1.81	0.43	2.33	1.65	1.50	.....	.....	3.01	.....
South Fork Ranger Station	.....	.....	.....	.....	.....	0.40	3.00	2.20	2.40	2.10	0.40	.....	.....
Spanish Fork	2.83	2.60	3.02	2.18	2.74	0.40	1.15	1.35	1.27	1.18	0.76	2.79	21.67
Springdale	2.80	0.12	1.39	0.83	0.73	0.00	0.74	3.31	0.04	2.47	0.80	4.67	17.90
Sunnyside	1.73	0.30	0.16	1.38	0.67	0.75	1.49	4.01	0.36	1.11	0.28	1.26	13.50
Thistle	3.28	4.33	2.08	1.93	3.08	0.10	.....	.....	.....	.....	.....	.....	.....
Thompsons	0.85	0.10	0.19	1.40	0.42	0.60	0.85	3.47	0.00	0.67	0.50	0.77	9.82
Tooele	1.29	1.64	2.45	4.89	2.36	0.50	0.58	1.25	0.89	1.85	0.51	1.93	20.14
Tremonton	1.99	1.54	1.61	2.99	.....	.....	0.10	0.68	.....	1.20	0.89	3.46	.....
Trout Creek Ranger Station	.....	.....	.....	.....	.....	.....	2.13	2.38	1.49	.....	.....	.....	.....
University of Utah	1.59	1.45	1.08	2.67	2.03	0.33	0.23	1.51	0.52	1.46	0.59	2.51	15.97
Vernal	0.87	0.15	0.50	1.48	2.05	0.46	0.77	0.65	0.31	.....	0.52	1.95	.....
Victor	0.90	0.00	0.11	0.26	0.25	0.11	1.85	3.69	0.33	0.15	0.00	1.15	8.80
Warner Ranger Station	.....	.....	.....	.....	.....	0.34	3.66	5.13	.....	.....	.....	.....	.....
Watson	0.31	0.12	0.74	1.45	0.12	2.51	2.16	2.11	T.	0.40	0.87	0.79	11.58
Wendover	0.21	0.07	0.12	0.93	1.72	0.08	0.00	0.13	T.	0.01	T.	1.82	5.09
Widtsoe	1.35	0.10	0.54	0.55	0.59	T.	0.90	2.96	0.09	2.15	0.70	2.78	12.61
Winter Quarters	2.96	1.25	0.38	1.82	1.86	0.59	1.90	3.43	0.96	1.01	0.45	3.01	19.62
Woodruff	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.12	.....	.....	.....
Vermont.													
Bellows Falls	.....	.....	2.95	3.26	3.11	.....	.....	.....	1.69	2.27	6.11	.....	.....
Bennington	0.87	1.44	4.90	1.92	2.29	5.96	3.98	2.49	1.13	2.05	6.38	1.94	34.65
Bloomfield	0.89	1.46	2.26	2.85	1.43	3.33	3.16	3.68	2.55	3.58	5.28	.....	.....
Burlington	0.65	2.09	2.64	2.98	1.00	1.96	2.05	2.98	2.54	3.78	3.69	0.81	27.17
Cavendish	1.24	2.30	2.72	4.77	3.42	4.77	4.95	3.13	2.00	2.06	6.11	1.48	39.04
Chelsea	1.10	2.33	3.80	2.52	0.78	2.85	2.77	3.09	2.59	2.49	5.63	1.94	32.39
Cornwall	0.82	1.23	2.04	2.23	0.57	1.90	7.26	2.10	1.51	2.85	4.22	1.15	27.58
Enosburg Falls	1.12	1.47	3.20	2.84	1.89	2.45	3.27	3.44	2.16	4.52	3.61	1.92	31.90
Garfield	1.35	2.43	3.05	.....	1.43	2.81	3.77	3.82	2.30	3.51	5.33	2.18	.....
Northfield	0.69	2.02	2.59	2.29	0.09	2.56	5.98	3.51	1.79	2.69	4.66	1.40	30.27
Rutland	1.24	1.12	2.20	2.90	1.72	1.32	2.68	3.02	2.18	3.27	5.41	1.91	28.35
Somerset	2.27	3.30	5.85	4.21	3.12	5.18	5.86	3.51	3.59	2.72	8.66	2.67	50.94

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Vermont—Continued.													
St. Johnsbury	0.72	1.47	2.22	1.93	0.96	1.91	3.37	3.91	1.34	3.41	4.56	1.52	27.32
Vernon	1.25	1.36	5.03	3.78	4.61	4.90	2.14	2.54	1.48	2.54	6.06	2.25	37.94
White River Junction	0.93	1.75	3.52	3.27	2.77	1.21	2.31	3.14	2.05	2.03	5.50	1.54	30.02
Woodstock	1.20	2.46	4.07	4.52	1.33	1.71	3.26	2.68	2.77	1.76	6.52	1.70	33.98
Virginia.													
Arcola	2.14	2.08	1.85	3.77	6.66	0.92	4.74	2.11	3.53	0.63	3.08	1.91	33.42
Ashland	3.35	2.84	2.19	3.85	4.15	2.12	3.24	0.78	1.02	1.65	.....	.....	.....
Blacksburg	5.62	3.68	2.18	1.89	2.77	3.49	4.95	3.19	3.99	3.06	4.00	1.87	40.69
Buchanan	3.89	2.68	1.36	2.10	3.64	3.02	4.98	2.94	2.66	2.12	4.21	1.79	35.39
Burkes Garden	3.55	3.01	2.00	1.67	4.08	3.39	3.64	4.94	5.17	3.44	2.57	3.34	40.80
Callaville	3.67	3.91	2.42	4.36	4.82	2.05	3.16	0.52	4.49	1.93	1.25	3.42	36.00
Cape Henry	1.30	3.25	2.50	3.39	3.47	3.59	8.28	3.69	2.74	1.59	1.67	4.16	39.63
Catawba Sanatorium	2.18	2.24	2.35	1.10	2.24	4.01	5.37	1.75	4.18	6.19	3.22	2.00	36.83
Charlottesville (near)	3.65	1.95	2.35	3.08	4.52	3.49	3.60	1.65	1.65	3.00	2.24	2.48	33.66
Clarksville	4.15	3.40	3.23	3.34	3.05	2.11	2.40	0.53	1.10	0.90	3.08	2.27	29.56
Columbia	3.95	2.83	2.25	2.93	3.20	1.07	2.53	2.36	2.38	1.46	3.01	2.51	30.48
Culpeper	4.57	1.91	1.62	2.75	7.11	1.77	3.62	1.89	1.95	1.21	3.12	2.28	33.80
Dahlgren	2.81	2.61	3.04	2.94	4.56	4.32	4.31	3.46	2.22	1.46	2.49	2.35	35.57
Dale Enterprise	1.84	1.25	1.43	1.60	3.63	2.86	4.29	1.80	3.54	1.26	3.27	1.95	28.72
Dante	1.93	3.04	2.36	3.00	4.18	1.73	7.71	5.49	5.47	2.22	4.62	3.17	44.92
Danville	4.96	3.90	1.75	3.44	4.41	2.11	1.94	0.33	4.08	1.83	3.09	1.28	33.12
Diamond Springs	2.85	4.10	2.22	4.20	6.41	4.85	1.46	3.30	1.20	4.83	2.80	5.05	43.27
Franklin	3.95	2.90	2.18	3.41	3.83	2.78	.....	0.78	3.54	2.21	2.64	4.24	.....
Fredericksburg (near)	3.33	2.64	2.03	3.00	6.72	1.62	2.68	1.48	5.61	0.73	3.14	2.22	35.20
Hawfield	3.94	2.67	.....	2.91	7.29	1.79	2.55	1.74	3.41	1.14	2.90	1.63	.....
Hopewell	3.81	4.26	1.89	3.88	3.89	1.83	3.55	1.59	5.39	1.87	3.15	4.04	39.15
Hot Springs	2.63	2.61	1.15	2.30	2.98	2.96	3.93	3.22	5.47	3.33	4.22	3.12	37.92
Ivanhoe	4.75	3.25	2.00	2.78	2.47	3.67	4.04	2.15	2.28	2.93	2.93	1.28	34.53
Langley Field	3.26	3.92	2.00	3.91	4.62	2.52	3.03	2.10	3.06	0.38	1.63	3.62	34.05
Lassiter	2.95	4.00	1.35	3.30	5.20	1.10	2.90	0.43	1.40	1.90	3.30	2.80	30.63
Lawrenceville	2.95	2.88	3.10	2.45	4.31	2.75	2.60	0.05	2.55	2.50	1.80	3.01	30.95
Leeds Manor	1.33	1.34	1.55	2.88	8.77	5.60	5.12	2.60	4.70	2.46	3.75	2.43	42.53
Lexington	2.98	2.33	1.37	1.68	2.84	4.10	3.64	1.28	2.28	2.23	2.36	2.59	29.68
Lincoln	1.30	1.67	1.57	2.87	7.86	4.39	.....	3.95	1.71	.....	4.00	.....	.....
Lynchburg	2.60	2.60	1.75	2.76	6.15	1.85	3.56	0.83	1.71	2.45	1.65	1.01	28.92
Manassas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.36	1.80	.....
Mayhurst	3.46	2.19	2.33	2.84	5.26	1.54	1.82	1.67	1.99	1.45	2.74	3.43	29.72
Mendota	2.90	3.94	1.87	3.15	5.12	3.43	6.49	7.01	2.96	2.30	4.76	3.14	47.07
Mineral (near)	3.43	2.09	1.73	2.34	3.52	1.10	5.14	3.17	1.23	0.68	3.65	3.06	31.14
Mount Moriah Farm	2.73	1.51	2.17	2.87	3.02	1.80	3.96	1.03	2.52	1.28	2.92	2.95	29.66
Mount Weather	1.49	1.78	0.90	1.99	8.45	3.48	8.57	5.69	1.80	1.08	5.08	2.57	42.88
Narrows	3.30	2.73	.....	3.06	4.35	1.69	2.08	3.03	1.84	1.85	2.80	2.68	.....
New Canton	3.86	3.29	1.87	2.79	3.26	0.88	2.86	1.42	3.45	1.18	3.78	2.42	31.06
Newport News	3.92	3.32	1.97	4.16	6.18	2.06	2.15	4.22	3.61	1.35	2.29	4.04	39.27
Norfolk	1.55	3.02	1.50	3.02	4.72	1.05	3.27	3.13	2.43	1.28	1.70	3.69	30.36
Onley	1.82	4.05	1.95	5.65	4.10	0.90	2.82	3.80	0.55	2.80	3.12	2.49	34.05
Pulaski	3.43	3.34	1.59	2.03	2.46	1.64	1.94	1.99	4.31	2.92	2.85	1.42	29.92
Quantico	3.44	2.21	2.53	2.42	5.76	2.18	1.74	.....	.....	.....	.....	.....	.....
Radford	4.20	3.48	1.46	2.14	1.98	3.94	3.47	2.24	2.46	2.94	3.68	1.84	33.83
Randolph	4.15	4.01	3.15	3.68	4.67	0.90	4.03	0.08	1.59	1.85	3.13	2.47	33.71
Richmond	3.80	3.52	2.13	4.65	3.89	1.49	2.36	0.61	0.95	1.20	2.97	3.02	30.59
Roanoke	4.75	2.56	1.33	2.77	2.64	3.22	5.46	2.05	2.18	3.94	2.88	1.73	35.51
Rocky Mount	5.33	3.44	1.50	3.74	5.18	4.18	6.86	1.10	4.86	2.55	2.87	1.42	43.03
Runnymede (near)	3.85	3.81	4.16	3.30	5.84	2.23	3.59	2.50	2.15	1.41	2.65	4.10	39.59
Speers Ferry	2.10	3.53	0.99	3.36	1.61	1.45	5.88	3.70	1.05	0.83	3.18	3.10	30.78
Staunton	2.38	1.95	1.70	1.61	3.17	4.54	2.62	2.79	4.95	1.28	3.12	1.99	32.10
Warsaw (near)	3.70	2.20	3.10	4.40	3.65	1.35	2.85	3.78	1.20	0.77	.....	.....	.....
West Point	1.18	4.38	2.49	2.99	4.79	1.00	3.29	1.71	1.41	1.40	3.04	0.85	.....
Williamsburg	3.49	4.56	3.22	3.71	4.97	0.89	5.73	0.87	1.39	0.35	2.27	3.66	35.11
Winchester	1.17	1.83	1.50	3.51	6.51	3.60	3.30	2.84	2.98	0.63	2.36	1.64	31.87
Wise	.....	.....	.....	.....	.....	.....	5.12	7.08	5.10	1.94	6.29	.....	.....
Woodstock	1.20	1.60	1.05	1.47	7.02	1.61	4.53	2.20	1.15	0.97	2.44	2.03	27.27
Wytheville	3.65	3.40	2.31	2.38	3.97	1.26	4.36	3.72	2.34	3.69	1.49	1.25	33.82
Virgin Islands:													
St. Croix—													
Annally	3.88	2.47	4.25	1.24	2.32	1.05	6.12	3.15	12.60	4.02	2.91	6.52	50.53
Canaan	.....	.....	.....	.....	.....	2.27	5.41	3.68	6.00	8.50	2.25	2.10	.....
Cotton Grove	2.45	1.46	2.39	0.69	0.88	2.83	3.09	1.76	1.67	2.90	1.97	2.47	24.56
Experiment Station	3.23	0.95	3.55	1.35	2.81	0.96	5.39	1.24	4.49	4.67	1.72	3.36	33.72
Frederiksted	3.35	1.96	4.05	2.15	1.83	0.52	6.64	1.73	6.20	3.94	3.22	6.35	41.94
St. John—													
American Hill	4.13	3.50	4.27	1.19	3.59	0.99	5.41	2.50	4.19	4.20	4.37	1.96	40.30
Cruz Bay	3.78	3.52	3.75	0.78	2.93	0.44	4.19	1.45	3.73	3.42	3.07	1.49	32.55
St. Thomas—													
Anna's Retreat	3.84	2.74	2.87	0.57	1.90	1.61	6.31	1.36	6.66	3.19	3.39	1.67	36.11
Charlotte Amalie	6.26	2.99	4.93	0.75	1.50	2.72	7.97	1.90	5.84	3.13	3.16	4.02	45.17
Reservoir	5.88	2.53	5.38	0.43	1.55	3.19	5.01	.....	.....	.....	.....	.....	.....
Washington.													
Aberdeen	18.14	12.22	6.70	7.95	2.41	5.57	0.06	2.12	4.31	10.90	16.27	9.37	96.02
Anacortes	3.99	2.65	2.98	1.87	.....	1.90	0.00	1.16	2.04	3.36	5.47	3.56	.....
Anatone	5.05	2.20	2.53	1.95	1.56	1.44	0.65	0.56	1.60	0.77	9.00	1.97	29.28
Attalia	0.94	1.48	0.24	0.23	0.10	0.46	0.09	0.12	0.32	0.56	1.86	0.31	6.71
Bellingham	5.09	3.66	2.12	2.80	1.57	3.79	0.32	2.71	2.55	5.00	5.85	4.51	39.97
Blaine	6.22	5.35	2.85	2.21	1.66	2.87	0.13	1.64	3.35	7.86	6.55	4.39	45.08
Blewett	6.20	2.40	3.14	.....	.....	.....	.....	.....	.....	.....	4.30	4.30	.....
Bremerton	6.98	4.70	2.60	1.61	1.70	1.35	0.16	1.26	2.00	5.64	8.06	7.68	43.74
Brewster	2.92	0.46	0.99	0.88	0.74	0.43	0.00	0.00	0.13	0.79	2.40	1.10	10.84
Buckley	6.31	7.84	4.74	4.14	4.00	4.55	0.44	1.73	3.32	3.32	8.78	6.76	55.93
Bumping Lake	9.96	5.48	7.60	2.64	2.82	1.15	0.46	0.92	2.66	4.11	11.31	8.32	57.42
Camp Lewis	6.91	4.01	5.13	2.68	2.07	1.78	T.	1.80	2.14	.....	.....	7.03	.....
Castle Rock	11.79	10.34	7.10	5.18	2.10	2.68	0.02	1.23	4.39	5.80	14.26	8.86	73.75
Cedar Lake	16.75	17.00	11.60	12.75	5.30	6.70	1.85	2.55	10.90	10.85	18.50	13.25	128.00
Centralia	9.58	9.21	5.27	2.90	1.97	2.46	0.09	0.85	3.98	4.23	9.98	8.23	58.75
Clearbrook	6.66	6.43	3.71	3.27	1.72	5.58	0.29	2.45	4.63	7.03	7.63	6.20	55.80
Cle Elum	6.35	2.72	3.02	1.46	1.47	0.78	0.57	0.07	1.36	1.51	6.93	3.95	30.19

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Washington—Continued.													
Colfax	3.12	2.16	2.99	2.63	0.72	0.97	0.00	0.60	0.77	2.35	3.08	0.62	20.01
Colville	3.12	2.08	1.44	1.62	0.30	1.68	0.02	T.	0.57	1.20	3.79	1.02	16.84
Conconully	2.74	0.72	1.43	1.84	0.78	0.51	0.49	T.	0.29	1.82	2.07	0.98	13.67
Coupeville	3.81	1.91	2.57	1.62	1.67	1.44	0.02	0.90	2.04	1.67	2.96	.....	.....
Cowiche	1.78	1.37	0.71	0.25	0.89	0.27	0.00	0.28	0.15	0.29	3.15	1.89	11.03
Darrington	15.53	9.30	7.90	6.25	2.49	4.14	0.21	2.31	6.76	12.87	16.77	12.99	97.52
Davenport	1.39	1.51	1.05	1.36	0.43	0.66	0.05	0.50	0.66	0.85	2.40	1.17	12.03
Davis Ranch	18.54	12.08	6.33	3.87	3.33	3.89	0.35	1.39	7.84	13.49	14.14	12.83	98.08
Dayton	3.07	2.16	3.49	1.60	0.49	0.49	0.59	0.17	1.56	1.03	3.77	2.27	20.69
Deer Park	3.81	1.02	1.53	2.07	0.25	0.26	.....	0.88	0.99	2.20	.....	.....	.....
Detroit	9.67	8.01	4.99	2.71	2.39	2.19	0.00	1.82	3.72	6.92	9.89	10.44	62.75
Dirtyface Mountain	10.57	4.83	5.55	2.16	1.22	0.79	0.00	0.21	2.59	3.14	9.03	8.34	48.43
Dryden	4.79	1.56	.....	.....	.....	.....	.....	.....	.....	.....	2.80	2.62	.....
Ellensburg	2.37	1.01	0.53	0.18	1.06	0.25	0.05	T.	0.35	0.37	4.30	1.68	12.15
Ephrata	1.13	0.67	0.18	0.74	0.99	0.15	0.00	0.19	0.25	0.75	2.10	1.28	8.43
Everett	6.79	3.16	4.08	3.20	1.76	1.83	0.15	0.74	3.23	4.31	7.37	3.90	40.52
Fairfax	3.16	6.07	4.55	7.12	3.36	3.13	0.00	0.78	3.99	4.58	10.71	9.25	56.70
Forks	29.70	16.96	6.92	10.31	4.53	8.40	0.38	3.73	11.88	25.87	20.59	14.52	153.79
Fort Simcoe	.....	2.13	1.31	0.59	.....	0.12	0.00	0.00	0.07	0.66	.....	.....	.....
Glacier	.....	.....	.....	2.40	.....	.....	0.95	.....	.....	.....	.....	.....	.....
Glenoma	.....	.....	.....	7.30	2.21	3.16	0.31	1.43	3.64	3.19	10.71	6.22	.....
Gold Creek	3.52	2.22	1.86	0.52	3.22	0.87	0.80	0.00	1.15	1.40	3.60	2.41	21.57
Goldendale	2.24	2.51	1.91	0.49	0.55	0.61	0.00	0.06	0.97	1.35	5.12	1.38	17.19
Granger (near)	0.78	0.67	T.	0.21	0.60	0.04	0.00	0.22	0.27	0.43	1.80	1.28	6.33
Hanford	0.36	1.25	T.	0.60	0.33	0.12	T.	0.14	0.06	0.29	1.61	0.69	5.45
Harrington	2.13	1.40	1.03	1.14	0.25	0.45	0.00	0.17	1.13	0.73	2.33	1.47	12.23
Hatton	1.06	1.43	0.53	0.54	0.23	0.23	0.32	0.10	0.54	0.55	1.76	0.96	8.25
Headworks	8.28	7.19	4.56	4.64	2.31	2.85	0.08	0.54	2.51	3.76	10.48	6.42	53.62
Hunters	1.43	1.30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Irene Mountain	1.28	0.61	1.27	1.98	1.59	2.69	0.79	0.04	1.43	0.85	1.44	0.73	14.70
Kahlotus	1.29	1.53	1.00	0.40	0.17	0.45	0.18	0.28	0.62	0.55	2.75	0.98	10.20
Kalama (near)	14.81	9.14	8.24	6.47	2.00	3.10	0.07	0.40	4.79	5.41	15.20	6.09	75.72
Kennewick	0.65	1.55	0.14	.....	0.37	0.25	T.	0.02	0.17	0.44	2.39	0.74	.....
Kent	6.16	6.24	4.25	2.10	2.50	1.85	0.86	1.52	1.42	4.15	7.93	7.80	46.78
Kettle Falls	2.90	1.68	1.81	1.35	0.20	1.05	0.18	0.00	0.74	1.75	2.95	1.06	15.67
Keyport	.....	.....	.....	1.65	1.62	1.33	0.08	1.20	1.59	6.26	8.73	6.30	.....
Kiona	1.06	1.55	0.49	0.49	0.56	0.41	T.	T.	0.49	0.49	2.76	1.03	9.33
La Center	8.44	8.50	5.38	4.06	0.78	1.80	0.05	0.30	2.67	3.68	11.43	3.12	50.21
La Crosse	2.64	1.31	2.32	0.76	0.22	0.66	0.10	0.40	1.00	2.28	2.68	0.93	15.30
Lake Clealum	7.70	4.51	4.98	3.19	1.76	0.71	0.68	0.20	3.20	3.18	9.03	5.37	44.51
Lake Kachess	10.11	6.97	7.47	4.79	2.69	0.92	0.87	0.11	5.28	4.09	10.57	9.90	63.77
Lake Keechelus	11.22	8.68	8.94	6.27	2.53	1.39	0.62	0.37	5.69	6.53	10.88	13.10	76.22
Lakeside	1.93	0.45	0.79	0.54	.....	.....	.....	.....	0.13	0.35	1.45	.....	.....
Landsburg	7.00	7.95	6.17	5.33	3.60	3.31	0.91	2.36	3.07	4.86	9.55	7.59	61.70
Laurier	3.10	1.70	1.87	2.44	0.41	1.68	0.33	T.	1.33	1.82	2.16	0.97	17.81
Leavenworth	6.59	2.19	2.09	0.90	1.52	0.28	0.00	T.	0.92	1.41	5.44	4.00	25.34
Lind	0.66	1.18	0.40	0.41	0.35	0.20	0.05	0.07	0.60	0.43	1.56	0.87	6.78
Locke	4.58	3.11	2.29	1.95	1.58	2.08	0.14	0.34	1.09	2.56	4.65	4.42	28.79
Lone Tree	14.36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Longmires Springs	20.13	15.85	10.49	9.91	2.77	3.72	0.83	1.90	4.34	6.05	17.77	9.55	103.31
Lost Creek	2.42	0.48	1.35	1.88	0.30	0.62	0.00	0.00	1.16	1.03	2.27	0.78	12.29
Lowden (near)	1.67	1.98	.....	0.78	0.10	0.49	0.28	0.24	0.26	0.92	2.73	0.96	.....
Marietta	4.99	4.15	1.74	2.37	1.41	3.81	0.25	2.61	5.25	3.90	5.44	4.50	40.42
Maryhill	1.90	2.43	0.92	1.00	0.60	0.02	0.00	0.07	0.45	0.69	4.91	0.90	13.89
McCumbers Ranch	5.70	2.46	5.66	0.61	0.26	0.80	0.00	0.32	0.77	3.12	6.09	2.37	28.16
Mill Creek	4.95	4.75	7.76	3.42	1.28	0.85	0.55	0.25	3.80	3.03	6.57	5.03	42.24
Mottinger	1.03	2.11	0.40	0.56	0.60	0.64	T.	T.	0.67	0.76	1.89	0.77	9.43
Mount Pleasant	9.00	10.97	4.80	4.68	0.97	2.80	0.00	0.36	.....	.....	.....	2.77	.....
Moxee	1.00	0.82	0.33	0.31	1.12	0.20	T.	T.	0.25	0.37	2.82	0.95	8.17
Nespelem	1.59	0.37	0.70	1.13	0.45	0.17	0.00	T.	0.48	1.52	2.65	0.58	9.64
North Head	10.65	9.87	6.41	4.16	1.69	3.10	0.13	1.08	3.78	6.18	10.52	7.31	64.88
Northport	2.91	1.66	1.50	1.38	0.27	0.95	0.19	0.08	0.65	1.36	2.66	1.78	15.39
Oakville	12.90	8.11	5.61	3.79	2.17	1.77	T.	1.21	4.04	5.25	10.77	9.15	64.77
Odessa	1.39	1.08	0.44	0.63	0.61	0.24	T.	0.10	0.52	0.52	1.81	0.95	8.29
Olga	4.59	3.31	1.53	1.63	1.89	1.87	0.12	1.04	3.14	4.58	6.20	4.47	34.37
Olympia	.....	8.26	6.68	3.61	2.29	0.92	0.00	1.29	2.94	6.83	.....	.....	.....
Omak	2.93	0.42	1.01	1.81	0.32	0.30	0.00	0.00	0.32	0.76	1.84	0.97	10.68
Oroville	1.96	0.55	0.69	1.55	0.97	0.77	T.	0.07	0.43	0.95	2.49	0.32	10.75
Paradise Inn	22.95	16.65	8.95	8.25	4.65	12.30	1.40	4.00	16.27	9.74	16.42	16.15	137.73
Peola	4.96	3.75	3.58	3.04	1.74	2.18	0.48	0.29	1.58	0.97	3.82	1.48	27.87
Pomeroy	2.22	2.44	3.60	1.55	1.00	1.27	0.75	0.50	1.45	0.87	3.20	1.69	20.54
Port Angeles	6.08	3.68	0.99	1.42	0.94	0.96	0.03	0.70	1.99	3.92	6.35	5.50	32.56
Port Townsend	3.66	1.51	1.50	1.58	1.79	1.51	0.11	1.31	1.12	2.34	3.93	3.00	23.36
Poulsbo	8.63	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Prosser	0.89	1.39	0.19	0.34	0.69	0.44	0.00	0.04	0.19	0.53	2.73	0.94	8.37
Pullman	2.79	2.35	2.96	2.34	1.86	0.87	0.05	0.15	1.53	1.25	3.98	1.47	21.60
Puyallup	6.50	6.78	5.35	2.81	2.47	2.62	0.00	1.55	2.71	2.75	8.09	5.99	47.62
Quilcene	11.16	2.02	3.03	3.81	3.15	1.85	0.58	0.79	2.14	9.91	11.66	5.30	55.40
Quiniault	.....	15.11	.....	10.65	3.06	2.00	0.00	0.55	1.15	12.90	.....	16.31	.....
Republic	2.32	0.91	1.54	1.85	0.27	2.68	T.	T.	0.69	1.12	2.13	0.79	13.70
Rimrock	6.39	3.63	4.68	0.87	1.18	0.12	0.18	0.04	0.66	1.24	9.17	2.34	30.50
Ritzville	1.32	1.46	0.85	0.59	0.51	0.39	0.00	0.05	0.69	0.57	2.13	1.20	9.76
Rock Island	1.83	0.69	0.83	0.14	1.25	0.17	0.00	0.00	0.21	0.30	1.65	1.72	8.79
Rosalia	2.67	1.54	2.19	2.42	0.82	0.99	0.06	0.58	0.68	2.03	2.93	1.38	18.29
Seattle	5.56	4.82	3.06	1.76	1.93	1.29	0.18	1.61	1.84	3.91	6.60	7.25	39.81
Sedro Woolley	6.70	6.53	3.91	5.73	1.57	3.04	0.05	1.99	4.50	5.10	8.30	5.33	52.75
Sequim	.....	.....	.....	.....	.....	0.73	T.	0.92	1.21	3.01	5.44	3.84	.....
Silverton	17.58	14.99	12.95	.....	3.87	5.79	.....	.....	.....	.....	26.04	.....	.....
Sixprong	1.50	1.76	0.42	0.27	0.53	0.26	0.00	0.07	0.04	0.38	3.63	1.27	10.13
Snohomish	.....	.....	.....	4.22	.....	.....	.....	.....	.....	.....	.....	.....	.....
Snoqualmie Falls	7.97	7.18	5.31	4.86	3.50	2.74	0.72	1.53	5.35	5.43	7.40	8.98	60.97
Snoqualmie Pass	20.38	13.80	8.87	5.05	2.10	5.50	2.10	1.80	6.70	10.75	17.80	15.23	110.08
Snyders Ranch	5.61	1.60	1.73	0.71	2.05	0.43	0.00	0.03	0.97	1.23	4.11	4.49	22.96
South Bend	24.43	15.31	9.58	8.42	3.43	5.63	0.21	2.25	5.38	11.13	19.73	12.05	117.55
Spokane	2.55	1.10	1.15	1.16	0.23	0.42	0.02	1.02	0.44	0.94	2.40	1.19	12.62
State University	5.60	4.77	3.68	2.19	1.99	1.51	0.30	1.43	1.51	4.64	6.66	6.62	40.90
Stehekin	11.82	4.33	4.30	1.54	1.00	0.35	T.	0.15	1.92	4.08	10.06	6.62	46.17

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Washington—Continued.													
Stokes Ranch	4.07	1.21	1.19	0.84	1.12	0.44	T.	0.15	0.64	1.40	4.19	3.39	18.64
Sunnyside	0.68	0.79	0.07	0.45	0.73	0.52	T.	0.07	0.35	0.17	2.19	1.00	7.02
Tacoma	6.02	5.53	4.36	2.20	2.10	1.64	0.01	1.18	1.59	2.77	6.82	7.36	41.58
Taholah	19.02	15.72	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tatoosh Island	18.07	13.04	2.88	6.58	2.24	6.78	0.22	4.12	7.76	17.36	12.02	9.30	100.37
Tieton Canyon	4.25	2.00	2.70	0.60	1.30	0.30	0.20	T.	0.60	0.80	5.20	.....	.....
Timentwa	3.46	0.72	1.33	1.57	0.72	0.43	T.	T.	0.29	1.91	2.55	1.53	14.51
Touchet Ridge	6.40	4.80	7.00	3.93	1.87	1.10	0.40	0.15	2.65	2.87	8.04	4.38	43.59
Trinidad	1.25	0.68	0.52	0.34	0.61	0.08	0.00	0.15	0.15	0.66	1.62	1.48	7.54
Vancouver	6.64	6.53	4.51	1.56	0.64	1.41	0.03	0.35	3.07	3.01	9.06	2.90	39.71
Vashon Island	6.31	6.52	3.72	1.57	2.03	1.41	0.21	1.70	2.35	4.75	6.41	8.50	45.48
Wahluke	0.60	0.57	0.12	0.15	0.27	T.	0.00	0.42	T.	0.24	0.92	0.41	3.70
Wallace	3.83	1.17	1.88	2.51	0.56	1.70	T.	T.	1.04	1.80	2.64	1.77	18.90
Walla Walla	1.87	2.21	2.24	0.81	0.19	0.67	0.38	0.57	0.79	1.20	3.91	1.57	16.41
Wapato	1.01	0.67	1.10	0.30	0.79	0.14	0.00	T.	0.00	0.66	3.05	2.31	10.03
Waterville	2.38	0.62	0.78	0.43	0.61	0.38	0.00	0.00	0.16	0.63	1.59	1.17	8.75
Wenatchee	2.67	0.30	0.60	0.10	1.79	0.33	0.00	T.	0.15	0.50	1.52	2.52	10.48
Wenatchee (near)	3.03	1.31	1.18	0.41	3.83	0.72	0.01	T.	0.23	0.81	2.61	2.97	17.11
Wheeler	0.75	0.94	0.21	0.35	0.59	0.06	0.00	T.	0.20	0.33	1.84	0.88	6.15
White Salmon	5.32	5.32	4.15	1.62	0.55	0.49	T.	0.10	1.44	3.06	10.21	2.55	34.81
Wilbur	1.60	1.03	1.01	1.10	.....	1.04	0.00	0.05	0.45	0.93	2.38	0.98	.....
Wind River	13.35	12.77	9.40	8.41	1.90	2.84	0.10	1.06	4.19	10.16	23.76	6.75	94.69
Winthrop	.....	.....	.....	.....	1.46	0.50	0.00	0.02	0.50	0.78	3.11	2.69	.....
Yacolt	14.29	13.49	9.78	7.60	2.44	3.55	0.10	0.89	4.30	6.77	14.95	6.55	84.71
Yakima	1.52	0.59	0.25	0.35	0.92	0.27	T.	0.02	0.27	0.31	2.33	1.24	8.07
West Virginia.													
Bancroft	2.02	2.46	3.18	3.28	5.99	2.25	3.00	7.65	3.14	2.16	7.71	4.26	47.10
Bayard	.....	3.16	3.44	.....	.....	.....	.....	.....	5.20	2.62	6.24	5.04	.....
Beckley	.....	.....	.....	1.77	4.17	5.08	6.55	5.48	1.93	3.75	3.75	4.02	.....
Bens Run	3.13	2.47	3.61	2.58	3.57	2.05	3.60	3.66	4.21	1.89	6.82	4.37	41.96
Bluefield	3.55	3.39	2.08	1.89	3.65	2.45	3.54	4.54	2.83	3.43	2.89	4.17	38.41
Brandywine	1.00	1.10	1.25	1.85	2.80	1.30	2.85	2.50	3.05	1.15	3.90	2.07	24.82
Bruceton Mills	5.22	3.68	4.14	2.81	7.46	4.09	3.76	5.26	9.07	2.91	6.74	3.73	58.87
Buckhannon	3.12	3.33	3.19	2.93	4.98	6.48	3.83	7.11	6.50	2.32	7.70	4.18	55.67
Burlington	0.60	2.23	1.87	1.23	6.48	1.49	2.47	3.96	4.43	1.38	3.10	2.85	32.09
Camden-on-Gauley	1.50	1.56	1.43	1.32	5.01	2.00	3.92	6.50	3.64	1.00	7.95	3.15	38.98
Cairo	3.27	2.59	3.93	2.68	3.27	4.47	2.10	5.36	5.43	3.28	6.45	4.76	47.59
Charleston	2.36	4.14	5.75	4.15	4.50	3.09	3.65	8.01	3.75	2.75	8.81	5.15	56.11
Cheat Bridge	.....	.....	.....	.....	.....	.....	2.99	5.05	6.80	3.88	8.45	6.57	.....
Clay	1.06	2.58	2.26	2.19	4.01	2.87	4.92	9.46	4.31	2.70	7.47	4.26	48.09
Cortland	2.72	2.45	2.54	2.01	7.24	4.82	4.33	6.13	6.02	2.78	4.81	3.57	49.42
Creston	2.57	3.72	3.01	2.58	3.63	6.16	2.73	4.23	4.21	2.53	7.40	5.50	48.27
Cuba	2.58	2.68	3.20	2.42	3.80	3.25	2.15	5.50	3.10	2.65	6.55	4.58	42.46
Dam No. 10, Monongahela River	.....	.....	.....	.....	.....	.....	.....	.....	6.81	3.61	7.22	4.01	.....
Dam No. 15, Monongahela River	.....	.....	.....	.....	.....	.....	.....	.....	4.45	2.83	7.58	3.51	.....
Dam No. 12, Ohio River	3.63	2.47	4.50	2.94	3.52	3.95	5.20	4.35	7.52	1.51	6.65	4.09	50.33
Dam No. 13, Ohio River	4.34	2.07	4.27	2.72	4.33	3.50	2.64	5.51	6.46	1.50	6.07	3.89	47.30
Dam No. 19, Ohio River	3.57	2.21	4.68	2.73	5.34	4.76	1.72	3.87	4.95	1.60	7.33	5.12	47.88
Dam No. 20, Ohio River	3.26	2.14	4.61	3.34	4.57	3.41	2.32	5.58	4.87	1.76	6.91	5.19	47.96
Dam No. 22, Ohio River	2.28	2.01	2.76	2.54	3.27	2.37	2.66	5.52	3.12	1.92	7.01	3.67	39.13
Dam No. 26, Ohio River	2.62	1.93	2.43	2.25	4.51	2.17	3.16	6.13	3.58	1.44	6.53	4.53	41.28
Davis	4.92	3.06	3.21	3.78	7.80	4.89	2.43	.....	.....	.....	.....	5.78	.....
Elizabeth	2.75	2.15	3.40	2.53	3.76	6.67	2.88	5.42	4.88	2.06	6.82	4.66	47.98
Elkins	2.50	3.09	2.92	2.26	4.21	6.08	4.69	6.82	5.15	3.30	5.30	5.07	51.39
Evans	5.14	2.73	4.96	.....	.....	.....	.....	.....	.....	2.30	7.59	5.43	.....
Fairmont	3.49	2.18	4.22	1.91	3.81	4.36	1.63	5.03	5.96	3.32	7.19	4.67	47.77
Gary	2.32	2.44	1.98	3.14	2.82	4.27	3.02	4.43	4.31	1.85	5.63	3.81	39.52
Glenville	2.79	3.21	3.07	2.29	3.10	4.09	1.08	5.67	4.97	2.98	7.49	5.62	46.36
Grafton	3.10	2.53	3.48	3.08	2.12	2.73	2.64	5.76	5.83	4.07	5.62	4.25	45.21
Green Sulphur Springs	3.48	4.42	2.23	5.09	4.81	4.37	1.62	.....	.....	3.80	5.22	6.96	.....
Harpers Ferry	1.02	1.73	1.57	2.53	8.53	1.49	3.25	5.46	.....	0.32	3.59	1.11	.....
Hinton	1.93	3.30	1.12	2.22	2.94	6.28	4.04	2.78	3.12	2.76	4.10	4.26	38.86
Huntington	2.88	2.26	3.90	3.24	3.18	2.58	3.98	6.00	4.58	3.97	7.32	4.20	47.09
Kanawha Falls	1.39	1.91	2.41	2.35	3.57	3.86	5.31	3.10	1.32	3.94	4.60	4.30	38.06
Kayford	2.81	2.73	1.83	2.70	5.01	6.58	4.57	5.76	3.34	3.01	6.86	5.84	51.04
Lewisburg	1.65	2.70	1.31	2.24	2.39	3.10	3.61	3.25	3.63	3.96	4.18	4.42	36.44
Logan	.....	2.81	.....	.....	4.08	2.77	.....	.....	.....	.....	.....	.....	.....
Lost Creek	2.99	2.58	2.93	2.24	2.68	5.85	2.03	6.26	5.52	2.38	7.60	4.17	47.22
Mannington	4.05	2.48	4.10	2.77	4.31	3.99	2.48	5.57	6.53	3.03	7.86	4.32	51.49
Marlinton	3.48	1.59	3.49	1.63	3.15	4.14	3.09	3.36	3.45	4.26	4.44	4.62	40.70
Martinsburg	1.67	2.20	1.96	1.93	10.67	4.80	2.24	7.59	3.65	1.00	3.04	2.81	43.56
Miller	2.55	2.68	1.83	3.16	4.93	8.41	4.88	5.14	5.17	2.65	7.56	5.07	54.03
Moorefield	0.45	1.72	1.14	1.18	4.95	2.41	3.77	.....	4.74	0.72	3.09	2.27	.....
Morgantown	2.28	1.28	3.35	1.55	4.36	4.22	2.24	5.61	6.76	2.57	5.94	2.66	42.82
Moundsville	4.01	1.69	4.05	2.62	3.86	3.98	1.25	6.52	8.30	1.52	6.68	4.38	48.86
New Cumberland	2.92	2.33	3.59	2.71	2.91	3.49	5.21	4.35	4.61	1.98	5.63	3.49	43.22
New Martinsville	4.55	2.05	3.62	3.00	2.50	5.83	1.85	5.15	6.65	1.90	7.48	4.57	49.15
Parkersburg	3.17	2.18	4.49	2.50	4.19	3.63	2.80	3.71	4.47	1.97	5.56	4.30	42.97
Parsons	4.04	3.22	1.60	1.18	3.87	2.98	3.53	5.50	3.08	4.31	6.00	4.18	45.49
Philippi	3.92	2.44	3.08	2.80	5.15	8.31	4.09	6.36	5.84	3.22	6.75	4.50	56.46
Pickens	2.82	4.23	4.34	4.85	8.02	5.93	3.76	6.97	6.94	5.76	8.51	7.59	68.72
Piedmont	1.93	2.29	2.00	1.68	6.15	3.02	5.64	4.78	4.71	1.72	4.43	2.29	40.64
Point Pleasant	2.80	2.60	3.82	2.24	5.00	2.47	2.24	5.50	3.71	1.45	6.88	5.65	44.36
Powellton	1.26	3.08	1.45	2.37	2.81	3.93	3.95	3.68	2.60	2.74	3.99	4.78	36.64
Raleigh	2.34	4.80	1.75	2.38	5.20	6.59	5.15	4.40	3.61	1.80	5.80	5.63	49.45
Renick	1.91	2.96	1.37	2.18	2.95	1.34	4.08	3.22	5.39	3.32	7.53	4.80	40.05
Robertsburg	2.34	2.71	3.07	3.38	4.27	2.22	3.32	6.18	4.14	3.39	6.54	4.51	45.07
Romney	1.04	1.38	1.30	1.05	5.77	4.68	8.90	4.24	6.25	1.21	2.52	1.89	40.33
Rowlesburg	5.00	3.15	3.81	3.47	5.74	4.55	4.80	7.53	6.14	3.48	6.00	5.41	59.08
Ryan	2.40	2.77	3.39	2.55	5.24	4.36	3.21	5.15	4.91	2.79	5.30	4.18	46.35
St. Marys	4.08	2.34	4.72	3.08	3.62	3.73	3.90	3.81	5.57	1.88	6.59	4.58	48.10
Sharples	2.10	2.41	2.07	2.38	5.94	3.47	6.79	3.51	4.25	2.60	4.89	5.01	45.42
Smithfield	5.17	3.19	4.34	3.14	3.48	3.67	2.98	3.45	5.22	2.70	8.09	5.15	55.56
Spencer	2.83	2.56	3.35	2.53	3.02	6.60	2.83	6.02	4.75	2.18	5.64	3.43	45.74
Stony River Dam	1.89	2.51	.....	1.48	7.39	2.35	3.34	5.66	4.49	1.95	5.67	2.96	.....
Sutton	.....	.....	.....	.....	3.84	4.23	3.94	5.18	3.92	3.48	7.10	4.97	.....

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
West Virginia—Continued.													
Terra Alta	5.94	3.63	3.37	4.55	7.05	3.00	3.43	8.02	5.99	.....	4.46	.....	.....
Union	1.40	2.36	0.63	1.49	2.83	4.12	3.78	2.32	3.09	3.85	3.52	3.24	32.63
Upper Tract	0.10	1.42	0.70	0.40	4.20	1.60	4.38	2.13	1.65	0.30	3.12	1.16	21.16
Wardensville	0.37	1.30	0.75	0.43	2.94	0.47	2.20	.....	3.00	0.28	2.91	.....	.....
Wellsburg	3.43	2.52	4.27	2.67	2.94	3.32	1.34	5.34	5.96	1.45	6.08	2.95	42.27
Weston	3.65	3.56	3.14	2.12	3.98	5.68	3.09	6.95	4.58	3.33	7.63	5.05	52.76
Wheeling	4.00	2.62	4.42	3.50	3.48	4.89	4.64	4.35	7.49	1.28	6.34	3.91	50.92
While Sulphur Springs	2.88	2.55	0.83	3.50	3.29	2.22	4.09	4.91	7.02	2.58	2.53	2.55	38.95
Williamson	2.24	3.43	1.94	3.41	3.60	2.83	5.85	5.26	4.22	2.36	5.04	3.97	44.15
Wisconsin.													
Antigo	0.21	0.90	4.20	4.90	1.79	4.36	3.58	2.16	5.28	0.94	0.79	0.97	30.08
Ashland	0.60	1.30	2.33	2.30	2.08	3.06	5.70	1.97	3.32	0.78	0.68	1.19	25.31
Baraboo	0.02	0.80	1.28	4.85	5.01	2.13	.....	.....	.....	3.83	1.03	.....	.....
Barron	0.49	0.34	2.06	2.83	3.04	1.63	5.07	3.81	.....	.....	.....	.....	.....
Beloit	0.25	0.05	3.33	5.08	1.86	2.56	1.84	6.01	7.30	3.74	1.40	3.34	36.76
Big St. Germain Dam	0.65	0.70	1.75	4.35	2.20	1.30	5.80	3.98	4.40	0.95	1.10	1.10	28.28
Brodhead	0.28	0.15	2.87	4.87	2.76	1.90	0.59	8.96	6.17	4.07	1.21	3.05	36.88
Burnett	0.35	0.65	1.11	6.49	2.71	0.52	1.21	4.89	4.25	3.40	1.14	2.04	28.76
Cecil	0.90	0.81	1.71	2.55	.....	.....	.....	.....	.....	.....	.....	1.62	.....
Coddington	.....	.....	.....	.....	.....	.....	.....	0.94	4.66	1.47	0.78	1.23	.....
Cornucopia	.....	0.58	2.83	3.22	2.34	3.23	2.61	1.97	4.52	0.90	0.85	1.56	.....
Danbury	.....	.....	.....	.....	0.67	1.80	4.59	3.99	2.42	0.40	0.72	.....	.....
Darlington	0.23	0.30	2.73	4.75	5.39	2.87	1.73	8.62	7.59	3.98	1.02	3.24	42.45
Deerskin Dam	0.95	0.95	3.02	4.80	2.17	1.08	5.56	4.31	3.49	1.35	0.91	1.34	29.93
Delavan	0.29	0.26	2.98	6.08	2.17	2.48	1.25	5.79	6.14	4.90	1.55	3.21	37.10
Downing	0.50	0.30	2.60	.....	4.58	2.94	6.04	4.97	5.66	0.80	1.30	0.80	.....
Eau Claire	0.64	0.57	1.78	4.14	7.84	3.77	2.77	2.88	2.23	1.14	1.58	0.89	30.23
Florence	0.93	0.93	3.36	5.01	1.80	2.25	6.10	3.83	4.56	0.83	1.28	1.74	32.62
Fond du Lac	0.51	0.91	1.84	5.96	2.10	1.11	1.84	4.91	5.06	3.57	2.01	3.06	32.88
Grand River Locks	0.32	0.59	1.56	5.49	4.36	2.36	2.81	3.65	4.27	2.69	1.15	2.52	31.77
Grantsburg	0.12	0.50	1.71	2.82	1.70	0.80	4.66	3.14	5.04	0.91	1.43	0.45	22.29
Green Bay	0.50	0.73	2.08	4.13	1.04	0.71	2.48	4.97	2.62	2.04	1.14	3.65	26.09
Hancock	.....	.....	.....	.....	.....	.....	.....	2.10	4.17	1.64	0.98	3.27	.....
Hatfield	0.73	0.38	1.00	4.41	3.21	2.37	5.60	2.58	3.42	1.39	1.01	1.17	27.27
Hayward	0.25	0.78	1.36	1.29	2.69	1.60	8.00	2.50	4.60	2.47	1.71	.....	.....
High Falls	0.80	1.70	4.51	4.72	1.14	0.71	2.96	7.43	5.13	1.70	1.50	2.24	24.54
Hillsboro	0.45	0.55	0.96	3.78	4.34	3.14	3.33	2.62	7.98	2.56	1.35	2.25	33.31
Iron River	0.36	0.44	2.39	2.63	2.29	1.92	3.52	3.45	3.59	1.09	0.53	1.09	23.30
Koepenick	1.25	1.25	2.10	3.20	.....	.....	.....	.....	.....	0.90	0.84	1.45	.....
La Crosse	0.71	0.53	1.32	3.37	5.96	2.31	2.36	1.26	6.09	1.41	1.54	1.08	27.94
Lake Mills	0.15	0.20	2.19	6.37	3.64	1.98	3.87	6.93	9.23	5.34	1.08	1.65	42.63
Lancaster	.....	.....	.....	.....	.....	.....	.....	5.44	6.74	2.37	0.93	3.79	.....
Long Lake	0.74	0.77	2.96	4.40	2.74	1.56	3.05	4.12	3.50	1.20	1.05	1.21	27.30
Madison	0.22	0.32	1.81	5.16	5.13	3.52	2.46	3.97	7.90	3.79	1.55	2.73	38.56
Manitowoc	0.49	0.86	2.18	4.54	2.84	1.17	2.52	3.63	3.88	2.14	1.29	3.63	29.17
Marinette	0.59	1.31	3.96	5.24	1.27	0.56	2.20	4.80	3.30	1.84	1.38	3.70	30.15
Marshfield	0.15	0.60	1.60	4.52	3.11	3.30	3.32	1.21	3.12	1.16	1.40	2.43	25.92
Mather	0.40	0.45	0.88	2.90	3.45	1.85	2.26	1.78	3.19	1.39	1.24	1.41	21.20
Meadow Valley	0.50	0.51	0.88	2.44	2.53	2.03	1.87	4.30	3.48	1.55	0.99	1.30	22.38
Medford	0.82	0.70	1.91	2.32	4.18	3.86	5.18	2.56	3.32	0.47	1.15	1.25	27.72
Menasha	0.65	1.00	1.90	5.67	1.96	1.79	4.02	1.71	2.61	1.66	1.26	3.61	27.84
Merrill	0.49	0.96	3.06	4.95	3.42	2.72	4.94	2.89	2.10	1.15	1.66	1.78	30.12
Milwaukee	0.22	0.47	2.84	5.90	1.39	0.61	1.35	7.27	7.26	3.75	1.42	2.54	35.02
Minocqua	0.71	0.71	2.24	4.28	3.19	1.30	6.31	3.77	5.83	0.69	0.60	0.88	30.60
Mondovi	1.65	0.68	3.57	4.06	5.79	7.50	2.84	3.57	3.39	1.11	2.75	1.00	37.91
Mount Horeb	0.21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Neillsville	0.34	0.27	1.56	3.25	3.73	1.97	5.69	1.88	4.73	1.09	1.40	1.67	27.58
New London	0.58	0.93	2.03	4.84	2.64	2.38	4.50	1.72	5.07	1.65	0.90	3.65	30.89
Oconto	0.19	0.91	3.22	5.29	2.54	1.12	2.66	6.88	3.16	1.79	2.49	2.90	33.15
Osceola	0.50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oshkosh	0.64	0.65	2.22	5.88	1.88	1.16	1.73	2.01	4.03	2.32	1.00	3.16	26.68
Park Falls	1.55	1.21	3.02	3.92	2.83	1.90	13.02	5.00	5.73	0.76	1.75	1.80	42.55
Pine River	0.74	0.75	1.83	5.10	1.78	2.09	1.91	3.66	3.78	1.60	1.37	3.22	27.83
Plum Island	0.02	0.09	4.03	1.82	2.35	0.91	1.19	5.22	5.69	1.92	1.47	3.50	28.21
Plymouth	0.46	0.75	1.85	5.73	1.57	1.45	1.93	3.12	4.79	2.83	1.39	2.68	28.55
Portage	0.29	0.51	1.86	5.64	4.04	1.31	2.94	3.75	5.03	4.02	1.74	3.18	34.31
Port Washington	0.32	0.30	2.28	6.66	1.35	1.81	1.28	3.88	6.10	4.09	1.61	1.90	31.58
Prairie du Chien	0.22	0.68	1.90	3.80	6.61	3.24	3.14	5.10	8.32	2.44	0.62	1.66	37.73
Prairie du Sac	0.26	0.28	1.41	4.43	5.48	1.29	1.94	5.10	6.84	3.09	1.22	2.87	34.21
Prentice	0.98	0.69	4.11	4.01	4.67	2.25	4.05	2.60	4.39	0.79	0.87	1.03	30.44
Racine	0.23	0.57	4.28	4.58	3.27	1.18	1.49	3.96	8.40	4.88	2.81	2.89	38.54
Rest Lake	0.40	1.00	0.80	2.90	3.41	0.71	6.66	3.75	4.31	1.51	0.90	.....	.....
Rhinelander	0.84	0.84	3.53	5.13	1.93	2.07	3.46	4.26	3.81	1.18	0.87	1.37	29.29
Richland Center	0.20	.....	1.33	4.53	.....	3.41	1.36	4.54	8.96	.....	.....	.....	.....
Ripon	0.26	0.59	2.04	4.13	2.26	3.49	1.61	2.84	3.49	3.08	1.37	3.08	28.24
River Falls	0.70	0.42	2.24	1.90	5.80	4.66	3.79	2.91	3.90	0.47	1.66	0.78	29.23
Sheboygan	0.34	0.55	2.07	5.47	1.05	0.91	2.22	2.97	3.81	2.90	1.09	3.42	26.80
Solon Springs	0.25	0.83	0.60	3.35	1.92	2.65	5.77	3.05	3.95	0.95	1.22	0.95	25.49
Spooner	0.36	0.47	1.83	3.12	2.08	1.65	8.28	2.56	5.81	0.54	0.93	0.88	28.51
Stanley	0.75	0.40	0.10	3.57	4.22	2.67	5.00	2.19	4.13	1.17	1.40	1.50	27.16
Stevens Point	0.73	0.40	1.56	4.73	1.93	4.44	2.48	2.46	3.44	0.91	2.50	3.27	28.85
Sturgeon Bay	0.46	0.92	3.10	4.07	0.93	1.20	2.07	2.96	3.98	2.93	1.86	4.15	28.63
Sugar Camp Dam	0.72	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Superior	0.41	0.50	2.14	2.26	3.00	4.94	4.01	3.12	3.50	0.63	0.66	0.61	25.78
Tomahawk	0.61	0.67	4.31	4.47	3.69	2.54	3.61	4.20	2.71	0.84	0.86	1.14	29.65
Viroqua	.....	.....	0.61	3.45	7.58	1.35	.....	2.22	8.53	2.51	1.53	.....	.....
Watertown	0.37	0.46	2.41	6.50	3.28	3.27	2.09	6.61	11.02	4.43	1.40	1.91	43.75
Waukesha	0.30	0.35	2.89	5.73	2.74	1.52	1.28	6.78	9.50	5.02	1.42	2.89	40.42
Waupaca	0.57	0.88	2.02	5.38	3.07	2.75	2.50	0.67	4.03	1.26	1.41	3.53	28.07
Wausau	0.50	0.75	2.76	4.22	3.99	4.01	2.41	2.02	2.71	1.45	1.48	1.37	27.67
Weyerhauser	1.06	0.48	3.63	3.71	2.28	2.36	6.88	2.09	4.53	1.13	1.09	1.08	30.32
Whitehall	0.68	0.60	1.08	2.62	4.79	5.12	3.60	1.41	5.14	1.09	2.05	0.79	28.97
Williams Bay	0.31	4.80	3.50	7.95	2.03	2.99	0.85	5.22	5.72	4.55	1.49	3.25	42.66
Winter	0.38	0.70	2.56	3.22	1.85	1.81	8.09	3.60	4.53	0.80	0.93	1.20	29.67
Wisconsin Rapids	0.66	0.99	1.84	4.16	2.71	2.98	2.15	0.73	3.19	1.40	1.50	2.34	24.45

Monthly and annual precipitation (in inches and hundredths) for 1921—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Wyoming.													
Afton (near)	1.67	1.09	1.13	2.79	2.50	0.99	0.28	0.84	0.71	0.78	1.14	1.76	15.68
Alta	1.56	1.16	1.03	0.77	2.65	0.15	0.16	1.55	1.37	0.45	1.28	2.00	14.13
Archer	0.95	0.07	0.14	0.86	1.88	2.08	1.72	0.97	0.13	0.21	0.08	.....	.....
Barnum	0.35	T.	1.08	1.50	2.33	3.16	0.15	0.11	0.31	0.31	0.90	0.95	11.15
Basin	0.81	0.07	0.15	0.47	1.34	0.90	0.20	0.08	0.34	0.34	1.05	0.73	6.21
Bedford	1.90	1.62	2.02	2.55	2.26	0.94	0.64	1.09	0.88	0.61	1.64	3.72	19.87
Big Creek	.....	0.94	1.07	2.30	0.68	2.29	3.05	2.81	0.92	0.79	0.42	1.90	.....
Border	0.91	0.78	0.86	2.80	0.88	0.48	0.24	1.45	0.28	1.28	0.73	4.42	15.11
Bow Ranger Station	1.16	1.20	2.40	6.90	2.30	1.77	1.62	2.25	1.05	0.71	0.57	.....	.....
Buffalo	T.	.....	.....	.....	.....	.....	.....	.....	0.50	0.10	0.70	0.30	.....
Casper	1.43	0.86	1.30	2.23	2.30	3.57	0.37	1.17	0.57	0.15	0.74	1.71	16.40
Centennial	2.18	0.97	0.80	1.57	0.76	1.98	1.71	2.10	0.45	0.38	0.70	3.20	16.80
Cheyenne	1.47	0.36	0.39	2.00	2.40	2.92	1.37	0.61	0.02	0.06	0.34	1.31	13.25
Chugwater	1.08	0.16	0.52	1.79	2.14	3.81	2.17	0.98	0.48	0.35	0.20	1.10	14.78
Clark	0.37	0.06	0.37	0.73	2.32	1.15	0.87	0.59	0.30	0.04	2.70	0.71	10.21
Clearmont	.....	.....	T.	.....	.....	.....	.....	.....	.....	.....	.....	0.36	.....
Cody	0.10	0.04	0.48	0.64	2.95	1.23	1.53	0.61	0.30	0.04	1.61	0.76	10.29
Cokeville	1.44	.....	.....	1.40	.....	0.90	0.07	0.18	0.02	1.10	0.27	2.14	.....
Colony	0.19	0.03	1.69	0.48	0.98	4.35	1.11	0.75	1.38	0.27	1.02	1.03	13.28
Deaver	0.30	T.	0.37	T.	1.76	0.80	0.17	0.35	0.27	0.05	0.53	0.12	4.72
Diversion Dam	0.05	0.02	0.32	2.60	2.93	1.56	0.30	0.28	0.12	0.18	0.14	0.64	9.14
Dome Lake	1.56	0.41	2.38	1.90	2.31	2.27	.....	.....	.....	.....	2.36	1.69	.....
Douglas	0.88	0.19	0.12	1.36	3.23	3.36	1.48	0.39	0.37	0.23	0.68	0.85	13.14
Dubois	0.07	0.00	.....	.....	1.83	1.23	0.47	0.81	.....	0.98	0.22	0.77	.....
Dutch Joe	.....	0.98	0.75	1.40	.....	2.03	0.53	1.47	1.44	0.84	2.28	3.94	.....
Dwyer	1.56	.....	.....	0.57	2.35	5.83	1.65	0.53	0.20	0.20	0.50	1.52	.....
Echeta	0.80	0.08	0.89	0.42	0.82	4.20	0.53	T.	0.56	0.40	1.00	0.82	10.52
Eden	0.65	0.23	0.37	.....	.....	.....	.....	.....	0.33	0.22	0.26	0.86	.....
Elk Mountain	0.50	0.40	2.20	3.80	1.64	2.00	4.20	2.30	0.70	0.20	0.90	0.45	19.29
Emblem	0.05	T.	0.10	0.40	1.69	0.51	0.40	0.00	0.25	0.21	.....	.....	.....
Encampment	0.44	0.37	0.82	1.83	0.49	1.00	2.29	1.64	0.45	0.51	0.65	0.93	11.42
Ervay	.....	0.26	1.24	0.98	3.52	3.24	2.33	0.78	0.43	0.36	0.64	2.02	.....
Evanston	0.49	0.34	1.54	1.73	0.77	0.90	0.73	1.72	0.68	1.01	0.74	2.78	13.43
Fort Laramie	2.47	0.11	T.	0.64	1.88	2.18	1.85	0.52	0.57	0.06	0.47	1.47	12.22
Foxpark	2.16	1.22	0.96	4.08	1.83	1.57	3.12	2.17	0.60	0.83	1.00	2.72	22.26
Gillette	.....	0.05	0.85	0.17	0.94	5.14	0.86	.....	0.10	0.01	0.80	0.63	.....
Green River	0.17	0.28	0.49	1.41	2.35	2.23	0.12	.....	0.40	0.18	0.07	0.52	.....
Hampshire (near)	.....	.....	0.02	0.18	1.47	2.56	1.49	0.65	0.22	0.01	0.75	0.47	.....
Hecla	1.16	0.33	0.56	1.64	1.30	2.56	1.90	1.00	0.32	0.26	0.30	1.01	12.34
Hunters Station	.....	.....	.....	.....	3.58	3.57	0.89	1.14	0.50	0.20	1.12	1.50	.....
Hyattville	T.	0.32	0.00	0.00	0.30	3.20	0.00	0.00	0.00	0.03	1.86	0.40	6.11
Jackson	1.80	0.67	1.10	1.59	1.90	0.69	0.39	1.87	1.33	0.62	2.39	3.26	17.61
Judson	0.96	0.24	0.12	0.43	1.68	1.35	0.38	0.91	0.44	0.11	.....	.....	.....
Kendall	1.82	0.78	0.83	.....	.....	2.70	0.22	1.23	.....	.....	3.12	2.45	.....
Kirtley	0.64	0.40	0.05	0.64	2.35	3.53	2.45	0.51	0.55	0.35	0.63	0.60	12.70
Knowles	0.38	0.10	2.31	0.73	1.34	3.41	2.14	0.42	1.26	0.16	0.70	1.48	14.43
Lagrange	1.58	0.32	0.26	1.74	2.17	1.24	0.92	1.01	0.90	0.81	0.56	1.62	13.13
Lander	0.28	0.20	0.69	2.73	5.56	2.57	0.38	0.30	0.13	0.50	0.43	1.67	15.44
Laramie	1.08	0.48	0.41	2.40	1.21	1.99	2.55	0.40	0.10	0.13	0.56	1.12	12.43
Lovell	0.12	0.38	0.07	T.	1.72	0.06	0.41	0.17	0.37	0.00	0.39	0.13	3.82
Lusk	1.02	0.26	0.01	0.62	4.83	3.64	1.18	0.05	0.00	0.02	0.61	1.48	13.72
Middle Fork Ranger Station	.....	.....	.....	.....	3.80	2.20	0.30	0.50	0.52	0.52	.....	.....	.....
Millbrook (near)	.....	.....	.....	.....	0.78	2.72	1.82	.....	.....	.....	.....	.....	.....
Moran	2.41	1.77	0.99	0.85	1.43	0.84	1.38	0.88	1.41	0.70	3.60	2.55	18.81
Newcastle	0.44	0.23	0.09	0.25	2.28	5.08	1.05	0.78	0.77	0.16	1.31	0.89	13.33
Nine Mile Creek	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.07	.....
Opal	0.52	0.70	0.80	1.26	0.39	0.12	0.03	0.25	.....	0.10	0.48	.....	.....
Painter	.....	.....	.....	1.98	.....	0.09	0.85	1.03	0.48	0.14	1.16	1.26	.....
Pathfinder	0.39	0.34	0.48	0.95	2.02	2.33	0.32	1.18	0.28	0.22	0.47	1.44	10.42
Pavillion	.....	.....	T.	2.50	3.81	2.10	0.20	0.60	0.12	0.20	0.14	0.43	.....
Pine Bluff	0.97	0.25	0.20	0.97	1.71	2.53	2.19	2.20	1.03	0.15	0.21	0.72	13.13
Pinedale	.....	0.41	.....	1.36	1.27	1.18	0.35	0.58	0.78	0.77	.....	1.66	.....
Pine Ridge	2.10	0.10	1.30	0.66	2.39	4.20	3.84	0.35	0.30	0.13	0.52	0.30	16.19
Powell	0.02	T.	T.	0.01	2.10	0.45	T.	T.	T.	T.	0.42	0.11	3.11
Rawlins	.....	0.10	0.28	1.35	2.23	0.60	1.25	1.25	0.30	0.20	0.30	1.30	.....
Riverton	.....	0.10	0.08	0.44	6.22	2.88	T.	0.25	0.00	T.	.....	.....	.....
Rockypoint	0.55	0.25	1.79	0.86	2.08	4.21	1.30	0.97	0.69	0.49	0.86	1.35	15.40
Saratoga	0.27	0.27	0.48	1.66	1.63	0.63	1.57	0.78	0.16	0.35	0.48	0.52	8.80
Sheridan	0.54	0.11	0.65	0.62	2.98	1.94	0.56	0.24	0.51	0.24	1.38	0.54	10.31
Sheridan Creek Ranger Station	.....	.....	.....	.....	.....	.....	.....	.....	1.32	T.	.....	.....	.....
Sheridan Field Station	0.47	0.02	0.65	0.94	2.08	2.63	1.41	0.30	0.35	0.21	0.80	0.20	10.06
Shoshone Dam	0.03	0.16	0.14	0.20	3.90	0.76	0.04	1.30	0.04	0.05	1.11	0.42	8.15
South Pass City	0.77	0.28	0.74	1.24	2.24	0.47	0.24	0.97	0.52	0.50	1.00	2.90	11.87
Spencer (near)	1.33	0.39	0.08	1.13	2.13	3.18	1.19	1.63	.....	.....	1.28	0.42	.....
Sundance	0.55	0.13	2.04	1.02	2.02	3.83	3.16	0.41	0.71	0.20	1.52	1.65	17.24
Thermopolis	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.29	0.65	.....
Timber Creek	0.44	0.26	1.66	2.71	4.52	3.25	0.77	1.70	.....	0.81	0.50	0.40	.....
Upton	0.80	0.30	T.	0.92	1.98	3.99	0.53	0.15	0.43	0.25	1.70	1.00	12.05
Verona	0.50	0.20	0.85	0.40	1.38	2.16	0.50	0.38	0.54	0.05	1.30	0.40	8.66
Wheatland	1.04	T.	.....	0.52	2.68	2.74	.....	.....	.....	.....	.....	.....	.....
Willow Springs Ranger Station	.....	.....	1.12	0.97	0.93	4.07	3.13	0.59	0.59	0.28	0.78	0.42	.....
Worland	0.22	0.07	0.04	0.23	2.26	2.04	0.03	0.70	0.62	0.15	0.62	0.15	7.16
Wyncote	1.28	0.21	0.10	0.63	1.69	2.28	1.77	0.25	0.02	0.40	0.55	1.52	10.70
Yoder	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.43	0.88	1.59	.....
Yellowstone Park	1.49	0.62	1.24	1.70	4.48	1.13	0.93	1.03	0.84	0.56	2.55	2.25	18.82
Gallatin [4]	.....	0.90	2.50	1.45	1.86	.....	1.09	0.84	0.89	0.40	2.01	1.17	.....
Lake Yellowstone [4]	2.23	0.84	3.73	1.44	1.05	0.26	0.18	0.16	.....	0.40	.....	.....	.....
Riverside [4]	1.78	0.50	.....	2.71	3.63	0.99	0.72	1.48	1.32	.....	.....	2.64	.....
Snake River [4]	4.17	1.91	2.50	1.75	1.59	0.89	0.87	1.37	1.53	0.89	3.52	4.26	25.25
Soda Butte [4]	0.75	0.53	0.46	0.92	2.56	1.90	1.44	0.79	1.08	0.16	1.44	2.62	14.65

[4] Station in Yellowstone Park.

SNOWFALL, 1921-22.

Monthly and seasonal snowfall, 1921-22.

NOTE.—Leaders under heading of months indicate no snow; under seasonal, report incomplete; T., a trace; *, no report.

[Inches and tenths.]

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Alabama.										
Anniston	.....	.....	.....	.....	T.	1.0	.....	.....	.....	1.0
Auburn	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Birmingham	.....	.....	.....	.....	.....	0.4	.....	.....	.....	0.4
Cochrane	.....	.....	.....	.....	.....	T.	.....	.....	.....	T.
Decatur	.....	.....	.....	.....	T.	T.	T.	.....	.....	T.
Florence	.....	.....	.....	.....	T.	.....	.....	.....	.....	T.
Gadsden	.....	.....	.....	.....	0.2	T.	.....	.....	.....	0.2
Greensboro	.....	.....	.....	.....	.....	T.	.....	.....	.....	T.
Highland Home	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Mobile	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Montgomery	.....	.....	.....	.....	T.	.....	T.	.....	.....	T.
Pushmataha	.....	.....	.....	.....	.....	T.	.....	.....	.....	T.
Scottsboro	.....	.....	.....	.....	0.2	T.	.....	.....	.....	0.2
St. Bernard	.....	.....	.....	.....	T.	T.	T.	.....	.....	T.
Talladega	.....	.....	.....	.....	T.	1.0	.....	.....	.....	1.0
Alaska.										
Akiak	T.	11.5	4.0	15.5	12.1	T.	8.0	7.5	T.	58.6
Akulurak	T.	T.	1.0	(*)	1.0	(*)	(*)	(*)	(*)	.....
Allakaket	6.0	18.0	6.0	18.2	14.2	8.2	T.	(*)	(*)	.....
Anchorage	T.	1.0	0.9	26.2	26.0	7.6	11.2	5.5	T.	78.4
Aniak	T.	12.1	T.	20.4	12.0	7.2	(*)	(*)	(*)	.....
Annex Creek	.....	.....	14.0	30.0	31.5	18.7	21.0	1.0	.....	116.2
Barrow	3.4	11.0	T.	3.4	1.6	6.5	(*)	(*)	(*)	(1)
Bonanza Mine	(*)	(*)	(*)	(*)	(*)	18.0	7.0	9.0	21.0	.....
Broad Pass	(*)	(*)	(*)	(*)	(*)	(*)	(*)	23.0	(*)	.....
Calder	.....	.....	8.0	9.0	6.5	10.0	32.0	2.0	67.5	.....
Chickaloon	.....	6.1	T.	33.0	12.5	3.0	5.0	8.5	.....	68.1
Chitina	.....	4.6	0.7	23.2	15.7	10.8	1.9	0.9	.....	57.8
Cordova	.....	1.0	0.5	44.5	38.0	16.0	39.8	16.2	(*)	.....
Dillingham	T.	0.8	1.0	13.5	3.5	3.0	1.0	(*)	(*)	.....
Dutch Harbor (A)	(*)	(*)	(*)	3.8	(*)	(*)	(*)	(*)	(*)	.....
Eagle	0.4	6.3	2.5	16.3	8.6	1.9	1.9	3.6	T.	41.5
Fairbanks (near)	T.	12.8	2.0	8.3	7.5	8.6	2.0	1.7	.....	42.9
Fortmann Hatchery	.....	T.	2.0	12.0	13.5	24.0	29.8	T.	.....	81.3
Fort Yukon	6.8	12.5	2.5	2.8	4.0	3.3	5.0	1.7	3.0	41.6
Girdwood	(*)	(*)	(*)	(*)	28.0	3.0	13.0	(*)	.....	.....
Healy	8.0	12.0	3.0	9.8	(*)	(*)	2.0	22.0	8.0	.....
Holy Cross	0.5	7.8	2.6	16.2	17.0	T.	18.0	14.0	0.8	76.9
Iliamna	.....	4.5	T.	37.0	53.0	4.0	20.0	1.0	(*)	.....
Juneau	.....	T.	2.8	21.4	12.7	10.4	9.6	0.8	T.	57.7
Kake	.....	.....	0.8	3.1	0.9	9.5	3.0	.....	.....	17.3
Kennecott	.....	5.0	7.0	(*)	32.7	11.0	5.4	5.5	9.5	.....
Ketchikan	.....	.....	.....	1.4	0.5	6.8	19.0	.....	.....	27.7
Kodiak (Experiment Station)	.....	0.5	.....	1.0	7.4	9.8	8.5	5.5	.....	32.7
Latouche	.....	2.0	2.0	17.0	(*)	(*)	(*)	(*)	(*)	.....
Matanuska	0.8	T.	0.5	19.3	14.0	5.5	8.8	4.3	T.	53.2
Nenana	T.	18.4	.....	4.5	5.1	3.4	2.5	1.7	.....	35.6
Nome	0.2	5.5	5.0	24.5	16.4	26.0	T.	8.3	1.3	87.2
Noorvik	2.5	13.7	9.2	17.1	9.0	16.1	T.	(*)	(*)	.....
Nulato	3.5	27.2	4.5	25.3	16.8	9.2	7.9	12.1	T.	106.5
Rampart	.....	12.7	0.4	12.0	6.6	7.7	2.4	1.8	.....	43.6
Ruby	2.0	15.8	2.8	25.0	14.8	(*)	8.0	.....	(*)	.....
St. Paul Island	T.	0.6	3.7	5.5	8.7	6.6	7.6	2.0	0.2	34.9
Salmon River	(*)	7.8	3.0	(*)	(*)	(*)	11.0	(*)	(*)	.....

[1] Barrow: July, 1921, T.; August, 0.1.

Monthly and seasonal snowfall, 1921–22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Alaska—Continued.										
Seward	.....	2.0	2.0	31.5	8.1	8.0	23.5	3.2	.....	78.3
Shaktoolik	(*)	(*)	0.3	2.4	2.6	7.5	1.0	7.0	(*)	.....
Shismaref	(*)	7.4	5.2	(*)	29.5	(*)	1.5	(*)	(*)	.....
Sitka	.....	T.	T.	6.0	6.0	4.0	8.5	0.5	T.	25.0
Skagway	.....	T.	0.9	5.9	16.9	15.1	11.6	0.5	.....	50.9
Summit (Mile 313)	10.2	45.0	(*)	(*)	(*)	(*)	(*)	(*)	(*)	.....
Talkeetna	.....	4.9	.....	33.8	26.7	12.6	11.2	19.0	.....	108.2
Tanana	3.6	8.4	1.0	7.0	5.3	3.9	1.1	1.3	T.	31.6
Tunnel	(*)	(*)	(*)	81.0	38.0	6.0	(*)	25.0	.....	.....
Unga	(*)	(*)	(*)	(*)	1.4	2.0	1.0	(*)	(*)	.....
Valdez	.....	4.8	0.8	80.0	87.5	14.2	20.0	26.8	.....	234.1
White Mountain	(*)	(*)	(*)	(*)	(*)	8.5	0.9	(*)	(*)	.....
Yakutat	.....	.....	4.0	11.0	20.0	36.5	27.0	T.	1.0	99.5
Arizona.										
Alpine	.....	0.2	T.	(*)	17.0	4.0	18.0	(*)	1.5	.....
Bisbee	.....	.....	2.0	0.2	3.0	1.0	4.5	T.	.....	10.7
Blue	.....	.....	T.	9.5	(*)	21.0	5.6	3.5	.....	.....
Cedar Glade	.....	.....	.....	.....	8.0	T.	10.0	T.	.....	18.0
Chin Lee	.....	.....	T.	T.	19.0	T.	6.0	T.	T.	25.0
Clemenceau	.....	.....	.....	.....	2.0	.....	.....	.....	.....	2.0
Constellation	.....	.....	.....	.....	6.0	11.0	8.0	T.	.....	25.0
Cosnino	.....	.....	.....	5.5	42.0	4.0	8.5	4.5	3.0	67.5
Crown King	.....	.....	.....	4.0	38.0	6.0	23.0	2.0	.....	73.0
Elgin	.....	.....	.....	.....	(*)	(*)	6.0	(*)	T.	.....
Fairbank	.....	.....	.....	.....	T.	(*)	6.0	.....	.....	.....
Flagstaff	.....	T.	T.	11.1	41.8	6.5	34.2	5.8	0.5	99.9
Gisela	.....	.....	.....	.....	2.1	T.	4.8	T.	.....	6.9
Grand Canyon	.....	T.	T.	6.8	28.0	9.0	10.0	0.5	2.0	56.3
Heber	.....	(*)	(*)	(*)	47.0	10.5	10.0	11.0	(*)	.....
Henry's Camp	.....	T.	.....	1.2	31.5	9.0	13.5	4.8	2.0	62.0
Holbrook	.....	.....	.....	0.9	0.6	0.1	0.5	.....	T.	2.1
Jerome	.....	.....	.....	(*)	5.0	(*)	19.0	0.4	2.5	.....
Kayenta	.....	.....	.....	T.	9.8	2.0	(*)	1.8	1.0	.....
Lakeside	.....	.....	.....	3.0	9.0	6.0	8.0	(*)	2.3	.....
Leupp	.....	.....	.....	6.0	3.5	4.0	0.3	.....	.....	13.8
Lewis Springs	.....	.....	.....	.....	0.2	T.	(*)	(*)	.....	.....
Moccasin	.....	.....	T.	3.0	10.0	10.2	.....	.....	T.	23.2
Mormon Lake Ranger Station	.....	2.0	(*)	(*)	(*)	(*)	(*)	(*)	4.0	.....
Natural Bridge	.....	.....	.....	.....	22.0	4.0	12.0	T.	T.	38.0
Paradise	.....	.....	.....	1.0	1.8	0.5	1.5	.....	.....	4.8
Phoenix	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Pinedale	.....	.....	T.	6.5	21.0	7.0	12.5	.....	2.0	49.0
Pinto	.....	.....	.....	3.5	8.0	.....	5.0	(*)	4.0	.....
Portal	.....	.....	.....	2.0	0.5	0.5	4.0	(*)	(*)	.....
Prescott	.....	.....	.....	1.0	22.0	7.0	21.0	(*)	3.0	.....
Prescott Dry Farm	.....	.....	.....	(*)	15.0	0.2	3.0	(*)	.....	.....
Rucker Canyon	.....	.....	3.0	.....	(*)	(*)	T.	(*)	.....	.....
Ryan	.....	(*)	3.0	6.0	15.0	13.0	16.0	12.1	(*)	.....
St. Johns	.....	.....	.....	(*)	6.0	.....	0.8	(*)	.....	.....
St. Michaels	.....	.....	T.	3.5	8.0	4.0	8.5	T.	1.0	25.0
Seligman	.....	.....	.....	T.	5.6	(*)	3.2	0.5	T.	.....
Show Low	.....	(*)	(*)	2.0	27.5	4.0	(*)	(*)	(*)	.....
Snowflake	.....	.....	T.	1.0	8.5	(*)	.....	2.0	2.5	.....
Springerville	.....	0.1	0.5	1.1	3.1	0.2	0.6	(*)	.....	.....
Spring Valley Ranger Station	.....	1.0	.....	12.0	20.5	5.0	15.0	(*)	24.0	.....
Superior	.....	.....	.....	.....	.....	.....	6.0	(*)	.....	.....
Sycamore Ranger Station	.....	.....	.....	.....	16.0	(*)	(*)	(*)	(*)	.....
Tombstone	.....	.....	.....	.....	1.5	.....	5.0	(*)	.....	.....
Tonto Ranger Station	.....	.....	.....	.....	13.0	(*)	17.0	T.	.....	.....
Tuba City	.....	.....	.....	(*)	1.0	2.5	(*)	.....	.....	.....
Tucson	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
University of Arizona	.....	.....	.....	.....	.....	.....	6.0	.....	.....	6.0
Walnut Creek Ranger Station	.....	.....	.....	3.0	24.0	7.0	16.8	T.	(*)	.....
Williams	.....	T.	0.5	4.0	34.0	10.0	25.0	9.0	10.5	93.0
Winslow	.....	.....	.....	6.5	6.2	(*)	3.8	.....	.....	.....
Yaeger Canyon	(*)	(*)	(*)	(*)	14.0	3.0	24.0	4.0	(*)	.....
Young	.....	.....	.....	(*)	16.0	(*)	13.0	2.0	(*)	.....
Yuma	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0

Monthly and seasonal snowfall, 1921-22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Arkansas.										
Bee Branch					2.0	3.0				5.0
Bentonville			T.	0.4	1.1	4.0	1.0			6.5
Brinkley					T.	T.				T.
Calico Rock					3.0		1.0			4.0
Camden						0.2				0.2
Dardanelle					0.2	(*)				
Dodd City				T.	3.0	0.7				3.7
Dumas						1.0				1.0
Dutton					0.5	4.8	T.			5.3
Eureka Springs				T.	2.0	1.0	T.			3.0
Fort Smith				T.	1.3	0.6				1.9
Grannis				T.	T.	0.5				0.5
Hope						0.5				0.5
Hot Springs					T.	T.	0.8			0.8
Jonesboro					7.2	2.5	1.5			11.2
Junction						T.				T.
Little Rock					T.	0.1				0.1
Lutherville					1.5	1.5				3.0
Malvern					T.					T.
Marianna						1.0				1.0
Mount Ida					T.	4.0	(*)			
Nail				T.	1.0	1.0	T.			2.0
Osceola					2.0	1.0				3.0
Pine Bluff						T.				T.
Pocahontas					4.0		2.0			6.0
Portland						0.5				0.5
Searcy					1.0	3.5	3.0			7.5
Texarkana						T.				T.
Waldron					2.5	2.9	1.5			6.9
Warren						T.	0.3			0.3
California.										
Big Bar				6.0	T.	10.0	6.0	T.		22.0
Bishop Creek	T.	2.0	3.0	105.0	16.0	51.0	23.0	3.0	2.0	205.0
Blue Canyon		1.0		79.0	53.0	145.0	75.0	21.0	15.0	389.0
Branscomb				2.5	2.2	8.2	12.8	2.5		28.2
Camptonville (near)			T.	36.0	43.5	29.5	35.0	9.0	6.0	159.0
Canyon Dam			7.5	48.0	20.0	43.0	49.0	2.0	4.0	173.5
Cascada		T.		33.5	49.5	28.0	35.0	4.0	9.0	159.0
Cedarville			2.5	13.5	8.5	39.0	12.5	0.5	T.	76.5
Chester		0.5	10.5	70.0	23.0	72.0	60.0	7.5	4.0	247.5
China Flat				3.0	0.5	1.2	3.2	T.		7.9
Colfax				6.0	28.0	6.0	24.0	6.0	6.0	76.0
Cuyamaca					62.0	52.0	31.5	3.5	1.0	150.0
Deer Creek		T.	0.5	50.0	49.0	88.0	69.0	17.0	16.0	289.5
De Sabla				24.0	41.0	13.0	18.0	4.0	1.0	101.0
Dinkey Meadow			3.2	80.0	38.0	59.0	39.0	24.0	6.0	249.2
Downieville			1.0	28.5	44.0	31.5	41.0	11.0	5.0	162.0
Dudleys			T.	13.0	40.8	24.0	26.0	7.0	9.0	119.8
Emigrant Gap		12.0	4.0	80.0	51.0	118.0	59.0	10.0	17.0	351.0
Eureka					T.		0.1			0.1
Fordyce Dam		13.0	12.0	106.0	55.0	152.0	114.0	30.0	28.0	510.0
Fort Bidwell		T.		22.0	4.0	38.0	19.0	1.0	2.0	86.0
Fresno					T.		T.			T.
Georgetown					25.0	13.0	13.0	5.0	18.0	74.0
Giant Forest		1.0	3.6	66.0	92.5	141.4	82.2	37.5	27.3	451.5
Glacier Point				118.0	52.0	151.0	54.0	7.0	16.0	398.0
Glennville (near)				T.	21.0	11.0	18.0	T.	3.0	53.0
Grass Valley				13.0	33.0	11.0	17.0	5.0	6.0	85.0
Happy Camp					5.0	17.5	6.0			28.5
Hat Creek				22.5	7.8	20.0	12.1	4.0	6.0	72.4
Hayfork				20.0	4.0	31.0	6.0	2.0		63.0
Head Dam				2.0	12.0	0.5	5.0			19.5
Hetch Hetchy				36.2	27.5	31.0	32.2	3.0	5.0	134.9
Hobbler's Camp			3.5	114.0	98.0	84.0	79.0	27.0	23.0	428.5
Hot Springs					10.0	9.0	13.0	2.0	1.5	35.5
Hullville (near)				8.5	3.2	14.0	19.2		0.8	45.7
Huntington Lake		5.0	5.0	90.0	79.0	47.0	67.0	16.0	11.0	320.0
Independence					10.1	5.0	0.8	T.	T.	15.9

Monthly and seasonal snowfall, 1921–22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
California—Continued.										
Inskip	.....	1.0	5.0	97.2	36.0	108.0	73.2	15.5	13.0	348.9
Julian	.....	.....	1.0	.....	57.0	20.5	34.0	6.0	2.0	118.5
Kennett	.....	.....	.....	3.0	4.0	.....	.....	.....	.....	7.0
Kernville	.....	.....	.....	.....	9.0	.....	7.0	.....	.....	16.0
Kings River, North Fork	.....	.....	3.5	101.0	68.2	64.0	55.0	23.0	10.0	324.7
Lake Eleanor	.....	.....	.....	72.0	39.0	63.0	52.0	8.0	14.0	248.0
Lake Spaulding	.....	4.0	3.5	93.8	53.2	154.8	89.5	23.2	21.0	443.0
La Porte	.....	T.	4.5	65.6	41.2	84.0	56.8	12.5	8.9	273.5
Lick Observatory	.....	.....	.....	(*)	13.2	13.0	22.0	4.0	3.0	.....
Los Angeles	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
McCloud	.....	T.	3.0	55.0	12.0	51.0	30.0	5.0	2.0	158.0
Madeline	.....	2.0	5.0	12.0	4.0	(*)	(*)	(*)	(*)	.....
Markleeville	.....	.....	2.0	36.0	21.0	73.0	20.0	6.0	1.5	159.5
Mill Creek (Amador County)	.....	.....	.....	4.0	22.0	22.0	20.0	2.0	3.0	73.0
Mokelumne Hill	.....	.....	.....	.....	11.0	.....	7.5	T.	.....	18.5
Montague	.....	.....	.....	4.0	6.1	5.2	2.2	T.	.....	17.5
Mount Tamalpais	.....	.....	.....	.....	32.0	T.	0.5	T.	.....	32.5
Mount Wilson	.....	T.	T.	4.5	40.5	10.0	10.0	7.0	5.0	87.0
Nellie	.....	.....	0.5	2.8	42.0	22.5	25.5	6.0	.....	98.8
Nevada City	.....	.....	T.	10.0	20.0	26.0	16.5	5.0	7.0	84.5
North Bloomfield	.....	.....	.....	17.2	34.5	43.0	39.5	6.0	8.0	148.5
North Fork	.....	.....	0.5	2.0	35.0	2.0	14.8	0.5	0.5	55.3
Placerville	.....	.....	.....	.....	8.0	3.0	9.0	1.0	2.0	23.0
Point Reyes	.....	.....	.....	.....	0.1	.....	.....	.....	.....	0.1
Portola	.....	4.0	5.0	58.0	19.0	85.0	43.0	.....	5.0	219.0
Quincy	.....	.....	0.2	34.0	22.0	45.0	35.0	1.0	4.0	141.2
Red Bluff	.....	.....	.....	.....	T.	.....	.....	.....	.....	T.
Ruth	.....	.....	.....	30.0	15.0	32.5	16.5	3.0	.....	97.0
Sacramento	.....	.....	.....	.....	1.5	.....	.....	.....	.....	1.5
San Diego	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
San Francisco	.....	.....	.....	.....	T.	.....	T.	.....	.....	T.
San Jose	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
San Luis Obispo	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Seven Oaks	.....	2.0	2.0	10.0	37.0	11.0	31.0	21.0	8.0	122.0
Shield's Ranch	.....	.....	T.	41.5	14.5	38.5	8.0	10.0	2.0	114.5
Sierraville	.....	1.0	2.5	27.0	20.0	72.5	36.0	10.0	3.0	172.0
Sisson	.....	.....	1.0	51.0	13.0	39.0	27.0	5.0	.....	136.0
Springville (near)	.....	.....	.....	10.0	31.5	15.5	20.5	18.5	11.0	107.0
Squirrel Inn	.....	.....	3.0	.....	68.0	15.0	38.0	20.0	14.0	158.0
Summit	.....	18.0	16.0	100.0	51.0	151.0	111.0	31.0	36.0	514.0
Tahoe	.....	2.5	7.0	74.5	36.0	145.5	52.0	9.5	10.5	337.5
Tamarack	.....	8.0	20.0	98.0	56.0	153.0	59.0	23.0	17.0	[2] 440.0
Weaverville	.....	.....	.....	11.0	3.0	18.0	2.5	0.5	.....	35.0
West Branch	.....	.....	1.0	38.0	27.0	27.0	35.0	5.5	6.0	139.5
Westwood	.....	.....	7.5	59.0	17.8	86.5	42.0	7.5	3.8	224.1
Yosemite	.....	.....	2.8	69.0	24.8	36.2	42.2	5.0	7.5	187.5
Yreka	.....	.....	.....	4.0	4.2	13.8	3.0	.....	.....	25.0
Colorado.										
Ames	.....	6.0	11.0	39.5	24.5	26.3	34.0	25.5	15.0	181.8
Ashcroft	.....	6.5	8.0	(*)	17.0	18.0	22.0	(*)	5.0	.....
Auldhurst	.....	4.0	6.0	15.0	6.0	2.5	13.5	26.0	4.0	77.0
Boulder	.....	.....	6.3	14.9	6.0	7.6	3.6	4.7	.....	43.1
Burlington	.....	.....	4.0	6.5	T.	4.0	1.0	(*)	.....	.....
Calhan	.....	2.2	4.5	7.5	1.2	3.0	4.5	15.0	T.	37.9
Cascade	.....	(*)	(*)	52.0	44.0	36.0	38.0	27.0	32.0	.....
Castle Rock	.....	1.0	6.5	(*)	2.0	4.5	10.6	(*)	(*)	.....
Cheesman	.....	2.0	15.5	12.3	4.2	2.0	9.5	18.0	1.0	64.5
Cheyenne Wells	.....	T.	2.0	8.0	(*)	5.0	11.0	7.0	.....	.....
Columbine	1.0	5.0	11.0	29.0	21.0	40.0	24.0	15.0	15.0	161.0
Crawford (near)	(*)	2.0	12.0	9.0	6.0	10.0	2.0	4.0	(*)	.....
Crested Butte	.....	4.0	15.0	54.8	22.5	34.0	35.0	17.0	12.0	194.3
Cumbres	.....	10.5	24.0	57.5	169.0	57.0	53.5	20.5	20.0	[3] 414.0
Del Norte	.....	T.	0.2	1.0	9.7	4.6	3.5	T.	2.9	21.9
Delta	.....	.....	3.0	1.5	3.5	4.5	6.0	2.0	T.	20.5
Denver	.....	1.0	6.5	9.1	4.9	7.0	4.9	21.0	T.	54.4
Dillon	.....	5.5	7.5	30.0	6.0	20.6	12.5	14.6	1.3	98.0
Dolores	.....	.....	.....	11.0	21.0	17.0	6.0	(*)	12.0	.....

[2] Includes June, 1922: Tamarack, 6.0.

[3] Includes June, 1922: Cumbres, 2.0.

Monthly and seasonal snowfall, 1921-22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Colorado—Continued.										
Dove Creek	.....	1.0	14.0	(*)	31.0	(*)	(*)	2.0	(*)	.....
Elk Creek	.....	2.0	10.0	17.0	6.0	4.0	19.2	30.0	10.0	98.2
Estes Park Fish Hatchery	.....	3.0	12.1	15.0	9.5	9.0	15.0	17.0	.....	80.6
Fort Lupton	.....	0.5	5.0	12.5	2.5	6.0	2.0	12.0	.....	40.5
Fraser	T.	10.5	13.0	23.5	15.5	33.5	25.0	40.0	10.5	171.5
Fry's Ranch	T.	T.	T.	18.0	10.5	7.8	16.9	17.5	T.	70.7
Garfield	.....	1.0	7.7	30.0	13.5	26.0	18.5	20.0	7.5	124.2
Glenwood Springs	.....	.....	4.0	11.0	24.0	23.0	5.0	.....	6.0	73.0
Grand Junction	.....	T.	0.5	1.6	5.5	4.3	3.4	0.7	T.	16.0
Greeley	.....	.....	1.0	7.0	4.0	4.2	T.	T.	.....	16.2
Grover (near)	.....	(*)	T.	10.0	4.0	3.5	(*)	1.0	.....	.....
Gunnison	.....	T.	5.5	27.4	4.7	10.5	7.3	T.	T.	55.4
Hartsel	.....	1.5	3.8	3.8	7.3	5.1	7.7	4.3	T.	33.5
Idaho Springs	.....	2.3	4.0	7.9	4.5	4.3	18.1	20.5	5.5	67.1
Julesburg	.....	T.	1.6	5.5	3.5	2.2	2.0	T.	.....	14.8
Kassler	.....	.....	9.0	21.0	8.0	7.5	9.0	25.0	.....	79.5
La Junta	.....	.....	0.6	5.0	0.9	4.8	6.0	3.0	.....	20.3
Lake Moraine	.....	4.0	6.0	18.0	7.1	5.0	14.8	25.8	7.5	88.2
La Porte	.....	.....	4.0	16.5	10.1	11.2	4.0	17.0	.....	62.8
Las Animas	.....	.....	1.2	6.0	T.	8.0	6.0	(*)	.....	.....
La Veta Pass	.....	2.0	.....	28.0	15.0	12.5	51.0	8.5	5.5	122.5
Lay	.....	1.0	9.5	13.5	9.5	24.5	12.5	20.0	4.0	94.5
Meeker (near)	.....	.....	6.0	5.0	14.0	7.0	16.5	12.5	4.5	65.5
Nast	.....	7.0	19.5	37.5	13.0	25.5	16.5	10.0	12.0	141.0
Palisade Lake	.....	3.5	16.0	54.0	48.5	37.5	52.7	20.0	15.0	198.6
Paonia	.....	.....	11.2	4.8	9.5	6.5	8.5	3.7	0.5	44.7
Pueblo	.....	T.	7.2	11.2	3.9	3.7	0.2	T.	.....	26.2
Pyramid	.....	12.7	15.6	40.4	22.1	31.8	45.6	26.9	9.0	204.1
Redvale	.....	.....	7.0	12.5	16.4	8.5	9.5	2.5	3.0	59.4
Rico	.....	7.0	14.0	46.5	31.5	28.0	48.0	26.0	18.0	219.0
Rifle	.....	.....	.....	5.0	7.0	12.0	4.0	.....	.....	28.0
Sapinero (near)	.....	13.5	24.0	45.0	24.6	29.2	37.0	29.0	13.0	215.3
Savage Basin	.....	20.5	16.0	25.0	29.5	38.0	73.0	39.0	33.0	274.0
Sedgwick	.....	.....	0.5	7.3	3.2	1.7	T.	T.	.....	12.7
Shoshone	.....	.....	7.5	13.0	24.0	35.5	11.0	7.0	.....	98.0
Silver Lake	1.0	20.0	32.5	31.5	11.0	49.0	28.0	29.0	16.0	218.0
Silverton (near)	.....	8.0	12.0	42.0	32.0	20.0	51.0	17.0	18.0	200.0
Simpson	.....	5.5	3.0	8.0	5.2	5.0	7.7	7.0	.....	41.4
Spicer (near)	.....	3.0	7.0	13.0	9.0	10.0	4.0	2.0	1.0	49.0
Steamboat Springs	.....	13.0	18.4	23.7	27.8	51.4	31.0	13.9	8.5	187.7
Sterling	.....	.....	T.	11.0	3.5	5.5	T.	T.	.....	20.0
Tacoma	.....	T.	.....	20.0	25.0	22.0	19.0	4.0	4.0	94.0
Telluride	.....	5.0	14.0	28.0	22.0	23.5	38.0	11.2	16.5	158.2
Trinidad	.....	2.0	0.4	7.5	1.0	7.0	15.7	4.0	1.0	38.6
Trout Lake	.....	20.0	12.5	74.0	29.5	25.5	40.5	23.5	20.0	245.5
Two Buttes	.....	.....	T.	8.0	0.2	6.0	0.8	4.2	.....	19.2
Victor (near)	.....	3.2	5.5	9.2	4.7	10.0	8.4	21.0	5.0	67.0
Wagon Wheel Gap	.....	3.4	2.7	15.5	27.7	14.4	23.3	12.7	17.2	116.9
Westcliffe	(*)	0.5	5.0	11.5	4.5	7.2	8.5	7.0	.....	.....
Willard	.....	.....	T.	9.0	3.0	3.0	2.0	2.0	.....	19.0
Wray	(*)	.....	T.	(*)	(*)	4.8	(*)	5.0	(*)	.....
Yuma	.....	.....	1.5	8.5	4.0	3.5	1.0	4.0	.....	22.5
Connecticut.										
Bridgeport	.....	.....	T.	4.4	9.7	12.7	6.8	.....	.....	33.6
Canton	.....	.....	T.	1.5	7.0	12.0	2.5	.....	.....	23.0
Colchester	.....	.....	T.	1.0	4.5	12.5	7.5	T.	.....	25.5
Cream Hill	.....	.....	2.0	5.0	12.5	14.5	13.8	5.0	.....	52.8
Hartford	.....	.....	T.	1.4	6.6	11.0	5.8	1.7	.....	26.5
New Haven	.....	.....	T.	2.5	7.4	8.5	4.7	T.	.....	23.1
New London	.....	.....	.....	1.5	6.8	15.0	6.0	T.	.....	29.3
Norwalk	.....	.....	.....	2.5	4.5	8.0	6.0	.....	.....	21.0
Torrington	.....	.....	0.7	0.5	4.1	12.0	2.8	.....	.....	20.1
Waterbury	.....	.....	T.	1.1	8.0	8.0	5.2	.....	.....	22.3
Delaware.										
Dover	.....	.....	.....	5.0	19.1	8.8	T.	.....	.....	32.9
Seaford	.....	.....	.....	5.8	18.0	9.5	T.	.....	.....	33.3
Wilmington	.....	.....	T.	8.0	20.3	6.0	0.8	.....	.....	35.1

Monthly and seasonal snowfall, 1921–22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
District of Columbia.										
Washington (Weather Bureau)	.....	.....	T.	5.5	31.5	3.0	4.5	.....	.....	44.5
Florida.[4]										
Georgia.										
Albany	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Americus	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Atlanta	.....	.....	.....	.....	1.0	T.	.....	.....	.....	1.0
Augusta	.....	.....	.....	.....	0.8	T.	.....	.....	.....	0.8
Blakely	.....	.....	.....	.....	T.	.....	.....	.....	.....	T.
Blue Ridge	.....	.....	T.	.....	2.2	2.0	.....	.....	.....	4.2
Brunswick	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Clayton	.....	.....	.....	.....	2.0	(*)	.....	.....	.....	.....
Cornelia	.....	.....	.....	.....	1.1	0.5	.....	.....	.....	1.6
Covington	.....	.....	.....	.....	0.1	0.1	.....	.....	.....	0.2
Dahlonega	.....	.....	.....	.....	1.1	T.	.....	.....	.....	1.1
Gainesville	.....	.....	.....	.....	0.5	.....	.....	.....	.....	0.5
Gillsville	.....	.....	.....	.....	0.6	.....	.....	.....	.....	0.6
Hartwell	.....	.....	.....	.....	0.7	.....	.....	.....	.....	0.7
Hazlehurst	.....	.....	.....	.....	T.	.....	.....	.....	.....	T.
Lisbon	.....	.....	.....	.....	0.5	.....	.....	.....	.....	0.5
Macon	.....	.....	.....	.....	.....	T.	.....	.....	.....	T.
Norcross	.....	.....	.....	.....	0.1	0.2	.....	.....	.....	0.3
Point Peter	.....	.....	.....	.....	0.5	.....	.....	.....	.....	0.5
Rome	.....	.....	.....	.....	T.	0.5	.....	.....	.....	0.5
Savannah	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Statesboro	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Thomasville	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Toccoa	.....	.....	.....	.....	1.0	.....	.....	.....	.....	1.0
Washington	.....	.....	.....	.....	0.5	.....	.....	.....	.....	0.5
Waycross	.....	.....	.....	.....	T.	.....	.....	.....	.....	T.
Idaho.										
Alpha	.....	1.0	34.0	20.5	23.0	34.0	26.0	22.0	3.5	164.0
Arco	.....	.....	1.0	22.0	20.0	9.0	12.0	1.0	.....	65.0
Ashton	.....	T.	1.0	26.0	26.0	30.0	7.0	1.0	T.	91.0
Avery	.....	.....	16.0	3.0	24.0	15.5	9.0	.....	.....	67.5
Blackfoot	.....	.....	T.	12.5	15.5	17.8	5.8	5.5	T.	57.1
Bogus Creek	.....	T.	23.7	10.0	13.0	28.0	38.0	16.0	6.5	135.2
Boise	.....	.....	0.6	5.3	9.5	8.1	3.7	4.0	0.1	31.3
Boulder Mine	.....	1.2	44.1	21.2	31.7	51.4	32.0	16.1	5.2	202.9
Brownlee	.....	.....	6.5	10.0	16.0	23.5	9.0	13.0	3.0	81.0
Coeur d'Alene	.....	.....	15.4	8.0	28.0	19.7	14.0	5.1	T.	90.2
Council	.....	.....	4.0	10.0	29.0	18.0	15.0	6.5	T.	82.5
Cuprum	.....	T.	33.5	15.0	27.0	32.0	17.0	16.0	4.0	144.5
Felt	.....	.....	6.0	12.5	8.8	(*)	3.6	1.0	.....	.....
Garden Valley Ranger Station	.....	.....	5.0	11.0	15.5	14.0	11.0	T.	.....	56.5
Geneva	.....	.....	9.0	30.0	9.0	34.0	6.0	10.0	1.5	99.5
Grace	.....	.....	3.5	35.0	14.0	29.0	3.0	8.0	T.	92.5
Grimes Pass	.....	1.4	33.5	20.7	25.7	40.9	31.4	14.9	4.0	172.5
Hailey	.....	T.	9.5	34.3	24.4	24.9	25.5	10.5	.....	129.1
Idaho City	.....	T.	24.0	11.5	22.0	33.5	26.0	12.5	1.2	130.7
Idaho Falls	.....	.....	T.	14.0	4.7	15.0	T.	2.2	T.	35.9
Irwin	.....	0.5	13.0	17.5	12.5	36.0	0.5	8.0	T.	88.0
Kirkham	.....	T.	15.8	16.7	17.0	21.0	6.5	2.0	.....	79.0
Kooskia	.....	.....	15.0	4.0	26.0	7.0	10.0	T.	.....	62.0
Lewiston	.....	.....	15.9	2.8	5.9	8.9	0.3	T.	.....	33.8
Lifton	.....	T.	2.8	32.2	2.5	23.2	3.2	7.0	T.	70.9
Little Camas	T.	1.6	13.9	24.9	21.1	35.2	24.6	7.6	2.6	131.5
Long Gulch	.....	.....	22.0	11.0	(*)	(*)	(*)	6.0	3.0	.....
Loon Creek	T.	2.0	21.7	17.5	11.9	32.3	18.1	12.0	3.0	[5] 119.5
McCall	.....	1.0	24.5	25.0	29.5	40.0	39.0	23.0	3.0	185.0
Mackay	.....	.....	6.0	12.0	8.5	16.0	12.0	9.0	.....	63.5
Malad	.....	.....	.....	27.6	16.0	29.3	10.8	1.6	.....	85.3
Montpelier	.....	.....	7.0	31.5	6.0	43.0	6.5	3.0	T.	97.0
Moscow	1.0	.....	21.0	15.5	22.2	14.0	15.4	6.4	.....	95.5

[4] No snowfall reported in the State this season.

[5] Includes July, 1921: Loon Creek, 1.0.

Monthly and seasonal snowfall, 1921-22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Idaho—Continued.										
Musselshell	.....	.....	37.3	26.2	65.0	46.4	51.0	8.8	3.0	237.7
New Meadows	.....	.....	14.0	15.8	19.5	32.5	23.8	11.5	1.0	118.1
Oakley	.....	T.	T.	0.6	14.0	8.5	0.1	12.0	.....	35.2
Obsidian	.....	3.5	24.6	19.5	10.7	24.0	21.0	17.2	0.5	121.0
Pine	.....	.....	27.0	11.8	24.5	44.0	21.5	5.0	.....	133.8
Pocatello	.....	.....	0.1	15.6	12.5	23.4	5.5	7.0	0.3	64.4
Potlatch	3.7	.....	23.0	6.0	24.5	15.5	5.0	13.5	.....	91.2
Priest River Experiment Station	.....	.....	19.5	11.9	20.7	15.5	21.2	10.3	.....	99.1
Pyle Creek	.....	.....	13.0	10.2	20.5	22.5	11.0	T.	.....	77.2
Rice	.....	.....	3.0	29.5	39.0	36.0	11.0	3.0	.....	121.5
St. Maries	.....	.....	13.0	7.5	33.2	16.2	12.8	T.	.....	82.7
St. Michael's Monastery	T.	T.	28.5	12.5	10.5	20.0	19.5	23.5	7.0	121.5
Sandpoint	.....	.....	15.2	4.7	19.3	15.9	11.0	7.7	.....	73.8
Sheep Hill	.....	.....	21.0	16.0	19.7	49.5	33.3	14.0	1.0	154.5
Soldier Creek	T.	2.5	16.5	32.5	19.0	21.0	20.0	7.0	T.	118.5
Spencer	T.	1.0	8.5	27.5	26.0	12.0	20.0	5.0	6.0	106.0
Stanley	T.	0.8	14.0	21.0	26.5	42.0	29.0	9.0	.....	142.3
Sugar	T.	.....	T.	16.0	19.7	14.3	3.5	0.5	T.	54.0
Tripod Mountain	.....	.....	11.5	4.3	20.3	24.5	15.7	8.5	1.0	85.8
Wallace	T.	.....	17.8	7.5	26.4	33.4	23.0	6.8	.....	114.9
Illinois.										
Aurora	.....	.....	3.0	3.0	0.5	0.5	0.2	.....	.....	7.2
Bloomington	.....	.....	2.5	0.3	4.3	0.5	3.0	.....	.....	10.6
Cairo	.....	.....	T.	T.	4.0	T.	T.	.....	.....	4.0
Charleston	.....	.....	T.	2.0	2.7	T.	3.8	.....	.....	8.5
Chicago	.....	T.	1.6	4.2	2.0	0.9	2.8	T.	.....	11.5
Danville	.....	.....	0.8	0.4	4.9	2.2	6.0	.....	.....	14.3
Decatur	.....	.....	T.	2.9	6.2	1.0	4.0	.....	.....	14.1
Dixon	.....	.....	4.7	4.8	2.8	2.1	1.8	.....	.....	16.2
Du Quoin	.....	.....	T.	2.0	3.9	T.	2.0	.....	.....	7.9
Flora	.....	.....	.....	5.0	0.4	T.	2.5	.....	.....	7.9
Freeport	.....	.....	5.0	4.0	1.0	T.	2.0	T.	.....	12.0
Galva	.....	.....	5.1	5.0	1.9	2.0	4.3	.....	.....	18.3
Hillsboro	.....	.....	T.	2.0	3.6	T.	3.0	.....	.....	8.6
Kankakee	.....	.....	0.8	1.7	9.4	1.1	2.8	.....	.....	15.8
La Harpe	.....	.....	3.0	2.5	3.8	1.0	6.5	.....	.....	16.8
La Salle	.....	.....	1.2	3.4	1.7	0.1	1.4	.....	.....	7.8
McLeansboro	.....	.....	.....	T.	0.6	.....	4.0	.....	.....	4.6
Marengo	.....	T.	6.5	4.0	0.3	0.5	0.5	T.	.....	11.8
Mascoutah	.....	.....	.....	0.3	2.0	1.0	6.0	.....	.....	9.3
Mount Carmel	.....	.....	T.	3.0	2.0	.....	1.0	.....	.....	6.0
New Burnside	.....	.....	.....	0.3	2.0	T.	1.0	.....	.....	3.3
Peoria	.....	.....	4.2	1.2	2.8	0.6	1.3	.....	.....	10.1
Pontiac	.....	.....	5.0	2.0	10.0	0.5	2.5	.....	.....	20.0
Rushville	.....	.....	1.0	3.0	3.0	0.5	7.0	.....	.....	14.5
Springfield	.....	.....	0.1	1.8	7.1	0.4	6.3	.....	.....	15.7
White Hall	.....	.....	0.4	3.1	5.5	T.	5.8	.....	.....	14.8
Indiana.										
Angola	.....	.....	6.0	8.0	13.0	3.0	10.5	2.0	.....	42.5
Bedford	.....	.....	0.5	5.0	1.5	.....	1.5	.....	.....	8.5
Butlerville	.....	.....	.....	4.4	1.5	1.0	1.5	.....	.....	16.9
Collegeville	.....	.....	5.0	2.5	12.0	0.5	3.6	.....	.....	23.6
Evansville	.....	.....	T.	0.2	0.4	0.3	0.1	.....	.....	1.0
Fort Wayne	.....	T.	3.4	4.9	11.4	2.5	4.9	0.1	.....	27.2
Frankfort	.....	.....	1.3	3.0	4.7	2.0	2.7	.....	.....	13.7
Indianapolis (Weather Bureau)	.....	.....	3.8	4.3	2.9	0.8	1.2	.....	.....	13.0
La Fayette	.....	.....	5.5	1.0	5.7	2.7	3.8	T.	.....	18.7
Marion	.....	.....	3.5	T.	4.0	2.0	1.0	.....	.....	10.5
Mauzy	.....	.....	5.2	6.0	3.6	1.5	2.0	.....	.....	18.3
Richmond	.....	.....	3.7	3.5	3.0	0.5	1.3	.....	.....	12.0
Rome	.....	.....	.....	T.	0.5	.....	T.	.....	.....	0.5
Royal Center	.....	.....	2.5	1.8	7.1	1.2	3.9	0.1	.....	16.6
South Bend	.....	.....	2.0	4.3	8.8	2.0	9.2	T.	.....	26.3
Terre Haute	.....	.....	0.9	3.7	4.0	0.1	2.5	.....	.....	11.2
Valparaiso	.....	T	8.3	3.9	15.6	5.3	9.6	T.	.....	42.7
Vincennes	.....	.....	T.	2.9	0.6	T.	1.6	.....	.....	5.1
Whiting	.....	.....	3.0	7.0	4.4	0.5	8.0	T.	.....	22.9

Monthly and seasonal snowfall, 1921–22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Iowa.										
Alta	.....	.....	4.3	4.5	6.8	2.8	9.0	2.0	.....	29.4
Belle Plaine	.....	.....	7.3	5.7	3.7	0.9	2.5	0.2	.....	20.3
Belmond	.....	T.	8.8	5.2	10.6	2.5	3.3	1.0	.....	31.4
Centerville	.....	.....	T.	3.2	0.7	1.0	4.0	T.	.....	8.9
Charles City	.....	.....	11.2	4.7	20.5	3.8	3.4	2.0	.....	45.6
Creston	.....	.....	T.	2.0	3.0	T.	5.0	.....	.....	10.0
Davenport	.....	T.	5.4	2.8	1.0	2.2	1.6	T.	.....	13.0
Denison	.....	.....	2.9	T.	4.5	T.	2.6	1.0	.....	11.0
Des Moines	.....	.....	0.4	1.6	3.2	0.4	2.7	0.3	.....	8.6
Dubuque	.....	T.	7.0	3.8	2.8	2.1	3.8	T.	.....	19.5
Forest City	.....	T.	8.8	7.0	9.6	2.0	1.5	T.	.....	28.9
Greenfield	.....	.....	T.	1.0	(*)	.....	(*)	T.	.....	.....
Humboldt	.....	.....	3.5	3.0	10.5	T.	2.5	3.0	.....	22.5
Independence	.....	T.	2.0	3.0	3.5	T.	1.8	T.	.....	10.3
Indianola	.....	.....	0.3	2.0	3.3	0.5	7.7	.....	.....	13.8
Inwood	.....	.....	3.0	9.1	10.0	3.5	6.0	7.0	.....	38.6
Iowa City	.....	.....	2.5	4.5	2.0	1.0	3.5	.....	.....	13.5
Iowa Falls	.....	T.	5.5	3.5	6.0	0.5	5.8	1.5	.....	22.8
Jefferson	.....	.....	1.3	1.0	9.0	T.	2.5	0.5	.....	14.3
Keokuk	.....	.....	1.5	3.5	3.5	2.1	2.9	.....	.....	13.5
Little Sioux	.....	.....	4.1	1.0	4.5	T.	5.0	.....	.....	14.6
Marshalltown	.....	.....	3.0	5.1	4.0	2.1	4.4	T.	.....	18.6
Milford (near)	.....	.....	3.9	2.1	6.0	2.1	4.3	2.9	.....	21.3
Mount Ayr	.....	.....	T.	0.9	2.8	0.1	4.5	.....	.....	8.3
Mount Pleasant	.....	T.	1.0	1.2	0.7	0.5	2.7	.....	.....	6.1
Oakland	.....	.....	T.	2.0	5.0	.....	1.5	.....	.....	8.5
Oskaloosa	.....	.....	1.8	4.3	2.1	0.8	4.2	T.	.....	13.2
Postville	.....	T.	5.2	3.0	3.2	2.2	3.5	.....	.....	17.1
Sioux City	.....	.....	6.3	4.5	11.2	3.3	6.9	4.0	.....	36.2
Thurman	.....	.....	T.	2.0	5.0	T.	8.0	T.	.....	15.0
Waterloo	.....	T.	11.5	1.3	3.3	0.9	0.8	.....	.....	17.8
Kansas.										
Burlington	.....	.....	T.	2.5	4.0	7.0	.....	.....	.....	13.5
Colby	.....	.....	2.0	4.0	1.0	3.0	10.5	10.0	.....	30.5
Columbus	.....	.....	0.4	0.2	2.2	6.0	T.	.....	.....	8.8
Concordia	.....	.....	T.	0.1	0.9	2.2	5.3	T.	.....	8.5
Dalton	.....	.....	.....	T.	1.5	5.5	6.0	.....	.....	13.0
Dodge City	.....	.....	T.	6.8	0.2	8.6	18.3	T.	.....	33.9
Garden City	.....	.....	.....	6.0	T.	7.0	8.5	T.	.....	21.5
Grenola	.....	.....	T.	T.	4.0	4.0	T.	.....	.....	8.0
Horton	.....	.....	.....	0.5	1.0	T.	7.0	.....	.....	8.5
Hutchinson	.....	T.	T.	4.0	T.	6.0	12.0	.....	.....	22.0
Independence	.....	.....	0.5	0.2	2.9	5.5	T.	.....	.....	9.1
Iola	.....	.....	0.5	1.2	6.0	5.0	T.	.....	.....	12.7
Lakin	.....	.....	T.	(*)	T.	3.5	16.0	0.2	.....	.....
Liberal	.....	.....	.....	4.0	.....	9.0	12.0	.....	.....	25.0
McPherson	.....	.....	.....	8.8	T.	6.0	6.0	.....	.....	20.8
Manhattan	.....	.....	T.	5.8	1.2	1.0	5.0	.....	.....	13.0
Marion	.....	.....	.....	4.0	T.	8.0	T.	.....	.....	12.0
Medicine Lodge	.....	.....	T.	0.8	0.2	5.0	5.0	.....	.....	11.0
Minneapolis	.....	.....	T.	1.2	0.2	3.0	4.0	T.	.....	8.4
Oketo	.....	.....	.....	0.2	0.6	T.	4.0	T.	.....	4.8
Phillipsburg	.....	.....	.....	.....	.....	(*)	4.0	.....	.....	.....
Richfield	.....	.....	T.	6.0	0.5	6.0	6.0	2.5	.....	21.0
St. Francis	.....	.....	2.5	2.5	0.4	2.0	2.0	(*)	.....	.....
Sedan	.....	.....	T.	T.	(*)	4.0	(*)	.....	.....	.....
Topeka	.....	.....	T.	7.3	2.1	1.9	2.1	.....	.....	13.4
Wakeeney	.....	.....	T.	6.0	T.	5.0	10.0	.....	.....	21.0
Wichita	.....	.....	T.	3.9	0.8	5.0	1.0	.....	.....	10.7
Kentucky.										
Beattyville	.....	.....	.....	T.	0.7	2.0	T.	T.	.....	2.7
Berea	.....	.....	.....	T.	T.	2.0	T.	.....	.....	2.0
Blandville	.....	.....	.....	T.	3.3	T.	.....	.....	.....	3.3
Bowling Green	.....	.....	.....	.....	0.2	2.5	.....	.....	.....	2.7
Calhoun	.....	.....	T.	T.	0.2	T.	T.	.....	.....	0.2
Earlington	.....	.....	.....	T.	0.3	T.	T.	.....	.....	0.3

Monthly and seasonal snowfall, 1921-22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Kentucky—Continued.										
Eubank	.....	.....	.....	.....	1.0	1.5	1.3	.....	.....	3.8
Frankfort	.....	.....	.....	T.	1.0	0.7	T.	.....	.....	1.7
Greensburg	.....	.....	T.	T.	1.0	1.0	0.5	.....	.....	2.5
Hopkinsville	.....	.....	.....	T.	3.5	T.	.....	.....	.....	3.5
Junction City	.....	.....	.....	0.4	2.3	6.8	T.	.....	.....	9.5
Leitchfield	.....	.....	T.	T.	1.0	0.5	.....	.....	.....	1.5
Lexington	.....	.....	T.	0.2	2.2	2.7	2.8	.....	.....	7.9
Louisville	.....	.....	T.	T.	1.5	T.	0.7	.....	.....	2.2
Maysville	.....	.....	.....	T.	0.5	T.	T.	.....	.....	0.5
Mount Sterling	.....	.....	T.	T.	2.2	2.0	0.5	.....	.....	4.7
Owensboro	.....	.....	.....	.....	T.	.....	.....	.....	.....	T.
St. John	.....	.....	T.	T.	1.0	0.1	T.	.....	.....	1.1
Scott	.....	.....	T.	3.0	1.3	1.0	3.0	T.	.....	8.3
Taylorsville	.....	.....	T.	T.	1.0	0.4	T.	.....	.....	1.4
Williamsburg	.....	.....	T.	.....	T.	0.3	T.	.....	.....	0.3
Louisiana.[6]										
Bastrop	.....	.....	.....	.....	.....	0.5	.....	.....	.....	0.5
Calhoun	.....	.....	.....	.....	.....	T.	.....	.....	.....	T.
Minden	.....	.....	.....	.....	.....	T.	.....	.....	.....	T.
Monroe	.....	.....	.....	.....	.....	T.	.....	.....	.....	T.
Plain Dealing	.....	.....	.....	.....	.....	T.	.....	.....	.....	T.
Richland Plantation	.....	.....	.....	.....	.....	T.	.....	.....	.....	T.
Shreveport	.....	.....	.....	.....	.....	T.	.....	.....	.....	T.
Maine.										
Cornish	.....	.....	29.0	18.0	16.5	26.0	10.5	18.0	.....	118.0
Eastport	.....	T.	16.2	6.6	12.4	24.0	5.3	1.0	.....	[7] 65.5
Farmington	.....	.....	31.5	12.8	19.5	32.5	6.5	18.0	.....	120.8
Gardiner	.....	.....	24.5	11.5	(*)	27.0	10.0	(*)	.....	.....
Greenville	.....	T.	44.7	10.9	20.3	27.8	4.9	7.6	.....	116.2
Houlton	.....	1.0	43.0	9.0	(*)	(*)	7.0	(*)	.....	.....
Lewiston	.....	.....	27.0	15.5	16.0	24.8	8.8	19.0	.....	111.1
Madison	.....	.....	20.2	5.5	15.0	23.5	4.0	12.5	.....	80.7
Millinocket	.....	.....	42.8	13.0	17.8	28.0	2.5	0.5	.....	104.6
North Bridgton	.....	T.	41.5	32.0	19.0	26.0	8.0	16.0	.....	142.5
Orono	.....	.....	22.0	5.5	16.0	20.5	4.0	9.0	.....	77.0
Portland	.....	.....	24.3	9.4	13.8	27.7	5.9	14.1	.....	95.2
Presque Isle	.....	1.0	31.0	6.0	19.0	19.0	1.0	.....	.....	77.0
Rumford	.....	.....	31.2	12.8	16.5	28.0	5.1	19.0	.....	112.6
Van Buren	.....	.....	26.5	7.5	19.0	26.5	6.5	.....	.....	86.0
Winslow	.....	.....	24.0	9.0	14.0	21.0	10.5	12.0	.....	90.5
Woodland	.....	T.	21.2	5.5	16.0	12.0	2.5	2.0	T.	59.2
Maryland.										
Baltimore (Weather Bureau)	.....	.....	T.	8.6	31.3	4.4	0.1	.....	.....	44.4
Cheltenham	.....	.....	T.	4.2	29.0	9.0	1.0	.....	.....	43.2
Chewsville	.....	.....	T.	11.5	20.0	10.0	2.5	0.5	.....	44.5
Coleman	.....	.....	T.	6.5	25.5	4.5	0.2	.....	.....	36.7
Cumberland	.....	.....	T.	11.1	15.9	5.9	3.0	0.5	.....	36.4
Easton	.....	.....	.....	4.0	27.5	7.2	T.	.....	.....	38.7
Emmitsburg	.....	.....	T.	10.0	21.9	8.0	3.8	T.	.....	43.7
Frederick	.....	.....	T.	11.6	20.5	10.2	2.9	T.	.....	45.2
Great Falls	.....	.....	T.	9.0	28.0	5.3	2.5	.....	.....	44.8
Oakland	.....	0.4	2.0	19.4	25.2	10.7	7.8	1.7	.....	67.2
Princess Anne	.....	.....	.....	3.5	10.0	11.0	T.	.....	.....	24.5
Solomons	.....	.....	.....	2.0	21.0	7.7	0.8	.....	.....	31.5
Western Port	.....	.....	T.	13.0	16.6	6.5	3.0	1.5	.....	40.6
Massachusetts.										
Amherst	.....	.....	3.0	5.5	14.8	13.5	9.2	2.8	.....	48.8
Blue Hill	.....	.....	1.5	6.2	6.4	23.0	12.8	4.0	.....	53.9
Boston	.....	.....	1.6	4.4	2.7	15.1	10.1	3.3	.....	37.2
Clinton	.....	.....	4.5	5.0	10.8	20.8	11.2	3.0	.....	55.3

[6] No snowfall reported during the season, except at the stations named; all of these but Richland Plantation are located in the northern division.

[7] Trace at Eastport, June, 1922.

Monthly and seasonal snowfall, 1921-22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Massachusetts—Continued.										
Concord	.....	.....	8.1	7.6	10.2	19.3	10.4	4.1	.....	59.7
Fall River	.....	.....	0.1	1.8	4.9	18.2	9.5	.....	.....	34.5
Fitchburg	.....	.....	10.2	5.2	12.2	22.2	11.0	6.0	.....	66.8
Framingham	.....	.....	7.5	4.2	6.0	19.5	10.0	4.0	.....	51.2
Lawrence	.....	.....	10.0	8.8	11.2	20.0	7.0	4.5	.....	61.5
Nantucket	.....	.....	T.	3.9	0.5	18.2	6.5	1.8	.....	30.9
Plymouth	.....	.....	T.	4.0	3.2	(*)	10.0	3.0	.....	.....
Provincetown	.....	.....	.....	T.	T.	15.0	6.0	1.0	.....	22.0
Rockport	.....	.....	.....	0.2	0.1	25.5	4.5	.....	.....	30.3
Rutland	.....	.....	6.1	(*)	(*)	21.2	14.5	2.0	.....	.....
Turners Falls	.....	.....	6.5	6.0	13.4	17.2	9.2	3.2	.....	55.5
Williamstown	.....	.....	7.4	11.0	14.0	11.4	15.3	4.3	.....	63.4
Worcester	.....	.....	7.9	4.6	9.1	20.7	11.5	4.0	.....	57.8
Michigan.										
Adrian	.....	.....	2.5	4.0	5.5	1.5	7.0	7.0	.....	27.5
Alma	.....	.....	8.8	10.0	2.2	5.5	8.5	0.5	.....	35.5
Alpena	.....	T.	6.0	13.8	15.5	22.4	7.8	2.5	.....	68.0
Ann Arbor	.....	.....	8.4	9.3	4.5	4.9	7.2	0.3	.....	34.6
Battle Creek	.....	T.	11.0	5.5	6.0	5.0	13.0	5.0	.....	45.5
Bergland	.....	T.	16.1	27.4	15.2	46.8	22.4	18.0	.....	145.9
Cadillac	.....	.....	4.2	16.5	4.5	10.5	9.5	1.0	.....	46.2
Calumet	.....	1.0	16.5	25.0	41.5	34.5	4.0	11.0	.....	133.5
Coldwater	.....	T.	6.0	12.0	8.0	3.5	9.0	4.0	.....	42.5
Croton	.....	.....	4.5	7.0	6.0	8.0	6.0	T.	.....	31.5
Deer Park (near)	.....	T.	[35.0]	35.0	43.2	32.5	16.5	T.	.....	162.2
Detroit	.....	.....	8.3	10.1	5.9	6.6	11.0	0.8	.....	42.7
East Tawas	.....	.....	2.9	6.5	2.8	10.1	10.5	3.5	.....	36.3
Eloise	.....	.....	2.0	3.5	4.0	5.9	2.6	T.	.....	18.0
Escanaba	.....	T.	15.4	11.2	11.9	24.3	10.5	4.1	.....	77.4
Ewen	.....	T.	21.5	41.0	27.5	45.5	12.5	21.5	.....	169.5
Fife Lake (near)	.....	T.	6.0	21.0	8.5	13.5	11.0	2.5	.....	62.5
Flint	.....	.....	10.0	6.5	5.5	7.6	8.0	2.0	.....	39.6
Frankfort	.....	.....	6.6	9.3	14.2	17.6	11.3	T.	.....	59.0
Ganges	.....	T.	11.0	3.0	6.0	1.0	6.5	1.0	.....	28.5
Grand Haven	.....	0.7	14.9	9.3	11.6	8.2	11.3	0.1	.....	56.1
Grand Rapids (Weather Bureau)	.....	.....	9.7	10.7	5.4	9.1	8.8	T.	.....	43.7
Grayling	.....	T.	6.0	20.3	13.0	31.0	9.0	T.	.....	79.3
Harrison	.....	T.	3.0	9.0	4.0	10.0	7.0	2.0	.....	35.0
Harrisville	.....	.....	12.0	7.0	7.5	15.0	8.0	T.	.....	49.5
Hillsdale	.....	T.	8.0	6.0	9.4	3.2	11.0	2.5	.....	40.1
Houghton	.....	2.1	7.9	17.4	28.5	47.7	3.6	7.7	.....	114.9
Howell	.....	.....	22.9	4.0	3.6	6.2	12.0	0.1	.....	49.0
Humboldt	.....	1.0	11.5	15.0	11.0	25.0	20.0	15.0	.....	98.5
Iron Mountain	.....	T.	6.5	13.5	3.0	29.5	5.5	5.5	.....	63.5
Ironwood	.....	T.	13.0	30.0	13.0	38.0	10.0	15.0	.....	119.0
Ishpeming	.....	5.5	11.0	16.0	15.5	39.0	17.5	10.8	.....	115.3
Jackson (No. 1)	.....	T.	9.3	9.0	5.1	11.5	12.0	2.0	.....	48.9
Johannesburg	.....	T.	9.7	17.5	7.0	20.5	7.3	1.5	.....	63.5
Kalamazoo (No. 1)	.....	.....	16.0	9.5	10.0	7.5	9.0	3.0	.....	55.0
Lansing	.....	T.	21.8	8.3	5.9	4.6	11.3	T.	.....	51.9
Lapeer	.....	.....	12.0	5.0	7.0	4.6	5.5	T.	.....	34.1
Ludington	.....	T.	7.9	11.8	6.5	12.8	8.7	0.5	.....	48.2
Luther	.....	T.	4.8	13.6	9.0	13.0	11.2	4.6	.....	56.2
Mackinaw	.....	.....	13.5	15.0	20.0	38.0	11.0	2.2	.....	99.7
Mancelona	.....	.....	13.5	22.0	24.0	30.9	14.0	4.5	.....	108.9
Marquette	.....	0.5	14.3	19.8	22.2	31.6	20.2	15.9	.....	124.5
Menominee	.....	.....	7.8	12.5	10.5	24.5	5.0	T.	.....	60.3
Mio	.....	.....	5.0	13.5	9.0	26.1	7.5	4.0	.....	65.1
Morenci	.....	.....	3.5	5.0	4.5	4.3	6.0	4.0	.....	27.3
Munising	.....	T.	22.8	16.6	25.5	30.2	23.0	13.8	.....	131.9
Muskegon	.....	T.	6.0	3.0	6.0	5.0	14.5	.....	.....	34.5
Newberry	.....	T.	14.2	18.7	18.7	29.1	11.8	5.4	.....	97.9
Old Mission	.....	T.	8.5	6.6	6.8	18.9	5.0	T.	.....	45.8
Omer	.....	.....	3.0	7.0	5.3	9.0	9.3	T.	.....	33.6
Onaway (near)	.....	T.	8.5	21.0	16.0	29.5	6.5	11.5	.....	93.0
Port Huron	.....	T.	19.4	6.5	6.9	3.7	7.9	0.2	.....	44.6
Roscommon	.....	T.	9.1	19.7	5.5	13.1	16.0	2.0	.....	65.4
Saginaw (Weather Bureau)	.....	T.	7.0	4.3	6.1	4.1	3.4	1.2	.....	26.1

Monthly and seasonal snowfall, 1921-22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Michigan—Continued.										
St. Ignace	.....	.....	8.7	7.3	8.0	17.0	6.5	0.2	.....	47.7
St. James	.....	T.	9.0	9.0	16.5	33.0	8.0	2.5	.....	78.0
St. Joseph	.....	.....	4.3	6.3	22.5	9.0	10.0	T.	.....	52.1
Sault Ste. Marie	.....	1.0	13.9	18.1	16.0	19.1	5.5	3.8	.....	77.4
Sidnaw	.....	0.5	6.7	17.2	23.4	25.8	3.9	1.0	.....	78.5
Wasepi	.....	.....	10.0	5.0	7.0	4.0	10.0	3.0	.....	39.0
Webber Dam	.....	T.	8.0	4.0	3.5	2.5	2.0	T.	.....	20.0
Ypsilanti	.....	.....	5.0	8.6	5.5	5.5	2.8	0.2	.....	27.6
Minnesota.										
Ada	.....	.....	(*)	7.5	4.4	12.3	7.0	(*)	.....	.....
Albert Lea	.....	T.	2.0	3.0	8.0	4.0	T.	9.0	.....	26.0
Alexandria	.....	.....	8.0	T.	3.2	19.2	6.0	T.	.....	36.4
Argyle	.....	T.	7.2	3.8	5.8	11.2	9.8	1.0	.....	38.8
Baudette	.....	1.0	18.5	11.5	5.5	16.2	20.7	0.5	.....	73.9
Cloquet	.....	T.	9.2	16.0	10.5	49.2	18.0	11.5	.....	114.4
Collegeville	.....	.....	10.5	1.7	4.3	19.9	2.1	1.0	.....	39.5
Detroit	.....	T.	2.5	7.0	11.0	43.0	7.5	3.0	.....	74.0
Duluth	.....	0.7	8.2	7.8	6.4	34.4	16.4	9.2	.....	83.1
Fairmont	.....	.....	5.5	1.5	1.8	1.2	4.0	5.0	.....	19.0
Faribault	.....	.....	7.0	2.0	9.5	13.0	2.0	10.0	.....	43.5
Farmington	.....	T.	17.5	4.0	11.0	11.0	1.5	11.0	.....	56.0
Fergus Falls	.....	T.	6.4	5.1	8.4	30.8	4.3	8.6	.....	63.6
Fort Ripley	.....	.....	9.0	2.0	10.5	29.0	2.5	1.5	.....	54.5
Grand Meadow	.....	T.	10.3	3.5	10.5	4.8	4.5	10.2	.....	43.8
Hallock	.....	.....	5.8	T.	2.5	4.5	10.0	T.	.....	22.8
International Falls	.....	.....	8.0	5.0	3.0	11.0	10.0	(*)	.....	.....
Itasca State Park	.....	1.0	5.5	8.0	3.5	18.0	5.0	6.5	.....	47.5
Leech Lake Dam	.....	T.	5.1	12.3	4.1	18.2	6.8	8.4	.....	54.9
Lynd	.....	T.	17.0	4.0	10.8	15.0	T.	.....	.....	46.8
Meadowlands	.....	.....	3.2	15.5	3.6	28.5	10.8	1.5	.....	63.1
Minneapolis (Weather Bureau)	.....	T.	16.6	3.2	7.0	13.6	1.4	1.5	.....	43.3
Montevideo	.....	T.	17.0	4.0	8.0	30.0	4.0	0.5	.....	63.5
Moorhead	.....	0.2	4.5	2.7	4.2	12.3	6.0	2.6	.....	32.5
Mora	.....	.....	12.8	4.2	5.0	25.8	5.8	1.5	.....	55.1
Morris	.....	.....	18.0	0.1	16.0	26.0	4.5	3.0	.....	67.6
New London	.....	.....	19.2	1.0	11.0	26.5	6.0	1.5	.....	65.2
Pine River Dam	.....	T.	5.9	8.4	4.6	24.3	3.8	4.0	.....	51.0
Pokegama Falls	.....	T.	6.7	10.6	7.8	13.9	6.2	2.7	.....	47.9
Red Lake	.....	.....	5.7	7.2	8.5	16.6	6.2	(*)	.....	.....
Red Lake Falls	.....	T.	5.0	(*)	(*)	(*)	(*)	(*)	(*)	.....
Redwood Falls	.....	.....	11.5	4.0	8.5	18.5	4.0	T.	.....	46.5
Roseau	.....	.....	7.0	3.5	0.5	6.5	11.5	0.5	.....	29.5
St. Paul	.....	T.	18.1	3.4	8.0	20.9	1.2	4.5	.....	56.1
State Sanatorium	.....	.....	3.1	4.0	2.0	10.0	2.0	3.9	.....	25.0
Thief River Falls	.....	.....	6.5	5.1	2.5	12.9	9.1	0.5	.....	36.6
Tracy	.....	T.	12.8	3.2	10.7	11.5	5.7	T.	.....	43.9
Two Harbors	.....	.....	4.2	19.5	10.0	47.0	11.0	7.0	.....	98.7
Virginia	.....	T.	3.1	11.9	3.7	14.0	12.7	(*)	.....	.....
Winnibigoshish	.....	.....	5.8	13.9	7.1	16.2	7.6	5.8	.....	56.4
Winona	.....	.....	10.8	4.2	9.5	5.8	0.5	3.0	.....	33.8
Worthington	.....	.....	4.5	3.2	9.0	6.5	6.5	T.	.....	29.7
Mississippi.										
Aberdeen	.....	.....	.....	.....	.....	T.	T.	.....	.....	T.
Anguilla	.....	.....	.....	.....	.....	2.0	T.	.....	.....	2.0
Austin	.....	.....	.....	.....	.....	T.	.....	.....	.....	T.
Bay St. Louis	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Brookhaven	.....	.....	.....	.....	.....	T.	.....	.....	.....	T.
Booneville	.....	.....	.....	.....	T.	T.	.....	.....	.....	T.
Canton	.....	.....	.....	.....	.....	0.8	.....	.....	.....	0.8
Columbus	.....	.....	.....	.....	.....	T.	T.	.....	.....	T.
Corinth	.....	.....	.....	.....	1.0	T.	.....	.....	.....	1.0
Edinburg	.....	.....	.....	.....	.....	T.	.....	.....	.....	T.
Fulton	.....	.....	.....	.....	T.	T.	.....	.....	.....	T.
Grenada	.....	.....	.....	.....	.....	T.	.....	.....	.....	T.
Hattiesburg	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Hernando	.....	.....	.....	.....	T.	0.2	.....	.....	.....	0.2

Monthly and seasonal snowfall, 1921–22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
***Mississippi*—Continued.**										
Holly Bluff						2.0	T.			2.0
Holly Springs					T.	1.0				1.0
Jackson						T.				T.
Kosciusko						T.				T.
Macon						T.				T.
Meridian						T.				T.
Moorhead						T.	T.			T.
Natchez						T.				T.
Pontotoc					T.					T.
Rosedale						0.5				0.5
Swan Lake						T.				T.
Tupelo					T.	T.				T.
University				T.	T.	0.2	T.			0.2
Vicksburg						T.	T.			T.
Water Valley					T.	T.				T.
Woodville										0.0
Yazoo City						0.2				0.2
Missouri.										
Arcadia			T.	1.6	4.9	T.	5.5			12.0
Bethany			T.	3.0	0.5	2.7	7.0	T.		13.2
Caruthersville				T.	4.0	T.	T.			4.0
Columbia			0.5	3.7	4.3	3.1	2.4			14.0
Dean				T.	3.0	3.5				6.5
Doniphan					6.0					6.0
Eldon			T.	2.0	3.2	0.5	5.0	T.		10.7
Hannibal			0.7	1.0	4.3	T.	7.1			13.1
Harrisonville			1.0	5.0	2.5	3.5	3.5			15.5
Hollister					3.0	1.0				4.0
Houston					4.0	2.0	T.			6.0
Jackson					4.0		2.0			6.0
Kansas City			0.5	4.8	1.4	5.6	1.1			13.4
Kidder				1.0	1.3	1.5	6.0			9.8
Kirksville			3.0	1.2	2.0	2.0	1.3			9.5
Koshkonong					6.0					6.0
Lebanon			T.	1.5	5.7	0.2	6.8			14.2
Lexington			0.2	4.0	2.6	5.0	0.7			12.5
Macon			2.0	1.5	1.2	2.0	1.5			8.2
Marshall			1.0	3.5	2.0	2.5	2.0			11.0
Maryville				1.0	5.0	0.5	5.0	T.		11.5
Mexico			1.0	3.5	4.7	1.7	6.7			17.6
Nevada				1.0	9.0	4.0				14.0
Poplar Bluff					3.8					3.8
Rolla			T.	2.0	4.5	T.	8.0			14.5
St. Joseph			T.	1.4	1.1	0.9	0.5	T.		3.9
St. Louis (Weather Bureau)			T.	2.4	4.1	0.8	5.2			12.5
Springfield			T.	1.1	7.4	5.1	2.6			16.2
Tarkio			T.	2.0	6.5	T.	5.0			13.5
Unionville			T.	2.0	1.0	2.0	4.0			9.0
Warrenton			1.0	6.0	6.8	0.8	6.0			20.6
Warsaw			1.0	3.0	9.0	8.0	3.0			24.0
Waverly			0.5	1.7	1.5	2.3	3.0			9.0
Montana.										
Adel	14.0		31.0	25.5	18.5	21.5	16.0	49.0	5.0	180.5
Agricultural College			11.0	21.5	7.5	8.1	8.4	6.0		62.5
Anaconda	2.1		16.5	12.9	9.6	6.1	2.4	3.6		[3] 53.2
Augusta	3.0		21.5	28.0	7.5	8.5	10.0	3.5	1.5	83.5
Belton	T.		42.0	17.5	43.0	21.0	8.0	6.0	(*)	
Biddle			5.0	8.3	7.5	3.0	2.5	9.0	3.0	38.3
Big Ox			28.0	9.0	5.0	7.0	14.0	6.0	8.0	77.0
Bigtimber			21.0	14.0	10.5	6.5	3.0	8.0		63.0
Billings			(*)	(*)	(*)	5.0	1.2	5.0		
Brenner	2.1	1.0	9.8	8.7	11.6	22.4	17.4	32.3	T.	[3] 107.3
Bridger			2.8	4.5	4.0	4.0		16.5	(*)	
Browning	1.0		12.5	6.5	1.5	4.0	2.0	4.0		31.5
Busby		T.	(*)	1.3	12.8	5.0	4.0	3.5	(*)	
Busteed	T.		21.5	10.2	6.9	9.5	1.6	15.0		[3] 64.7
Butte	(*)		30.0	15.7	3.0	10.5	11.7	(*)	(*)	

[3] Includes July, 1921: Anaconda, T.; Brenner, 1.0; Busteed, T.

Monthly and seasonal snowfall, 1921-22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Montana—Continued.										
Carter	2.0	.....	17.0	13.0	7.5	12.0	6.0	7.0	.....	64.5
Cascade	4.0	.....	13.0	16.5	12.1	10.9	8.7	6.6	.....	71.8
Columbia Falls	(*)	.....	18.0	10.5	27.5	29.5	4.5	15.5	T.	.....
Como	T.	.....	29.6	8.6	7.9	8.3	5.5	(*)	(*)	.....
Copper	9.0	1.0	26.5	20.5	17.0	15.0	8.0	17.0	3.0	[9] 123.0
Crow Agency	.....	T.	14.0	1.0	13.5	8.0	6.0	10.0	.....	52.5
Culbertson	T.	.....	1.8	1.7	1.0	5.3	3.0	4.2	0.5	17.5
Cut Bank	4.0	.....	6.5	12.0	6.0	4.5	6.4	10.5	12.0	61.9
Deer Lodge	T.	.....	13.0	11.5	5.0	5.5	.....	T	3.5	38.5
Dell	(*)	T.	(*)	(*)	3.3	1.2	(*)	8.0	10.5	.....
Denton	5.0	T.	12.4	8.2	10.5	14.0	6.5	4.2	T.	60.8
Dillon	T.	.....	9.8	13.6	12.5	18.2	8.0	26.5	6.0	94.6
Dunkirk	1.2	.....	9.0	3.5	4.0	4.5	3.7	3.0	T.	28.9
East Anaconda	2.3	T.	20.5	8.4	10.4	6.2	10.6	20.1	6.2	[10] 84.7
Findon	T.	0.2	26.9	20.6	16.7	16.9	10.9	12.4	0.9	[10] 105.5
Flathead Creek	11.0	3.0	32.9	25.3	16.5	32.0	3.8	4.0	.....	128.5
Flatwillow	1.0	.....	10.8	18.5	8.8	10.8	3.8	4.3	T.	58.0
Fortine	.....	.....	20.7	12.3	14.0	12.8	3.0	(*)	.....	.....
Fort Shaw	(*)	.....	9.0	14.5	4.0	4.5	6.0	5.0	.....	.....
Geraldine	.....	.....	14.0	27.0	14.4	10.0	10.5	(*)	.....	.....
Glasgow	(*)	.....	3.1	2.8	4.6	8.8	2.8	4.0	(*)	.....
Great Falls	6.0	.....	12.0	15.9	7.4	6.7	6.5	7.5	.....	62.0
Haugan	0.3	T.	40.4	13.7	30.5	21.4	12.5	T.	.....	118.8
Havre	5.3	.....	8.4	2.5	4.2	7.0	4.3	2.1	.....	33.8
Hebgen Dam	1.0	4.0	25.5	30.0	21.5	26.0	19.5	19.5	1.0	148.0
Helena	1.5	T.	23.8	13.0	8.0	16.7	6.1	12.9	3.5	75.5
Heron	.....	.....	15.0	10.0	54.0	34.5	23.3	2.5	.....	139.3
Hobson	.....	.....	23.5	18.2	12.7	14.0	2.5	3.0	.....	73.9
Holter	.....	.....	14.0	8.0	3.0	8.0	8.0	13.0	.....	54.0
Kalispell	T.	.....	18.3	6.2	8.9	6.4	6.3	8.0	.....	54.1
Kinread	2.0	.....	10.5	4.5	6.0	3.0	6.0	4.0	.....	36.0
Knobles Ranch	5.5	.....	18.5	9.0	7.0	6.0	5.5	8.0	4.0	63.5
Knowlton	T.	.....	9.5	4.5	5.3	10.3	3.0	5.0	1.0	38.6
Lewistown	14.6	.....	7.2	11.5	6.9	10.6	11.5	1.5	.....	63.8
Lustre	1.0	.....	7.0	4.0	8.5	5.5	5.8	10.2	4.5	46.5
Lytle	4.0	T.	9.0	15.0	6.5	9.5	7.0	6.0	T.	57.0
Malta	.....	.....	5.5	2.3	4.0	7.0	3.2	5.0	(*)	.....
Melstone	.....	.....	13.7	9.1	9.0	9.0	0.3	7.0	.....	48.1
Mildred	.....	.....	6.0	2.0	2.0	7.0	1.0	T.	(*)	.....
Miles City	.....	.....	14.2	12.4	10.1	9.6	4.2	8.3	10.0	68.8
Missoula	.....	.....	33.1	7.8	7.2	12.2	17.7	11.2	6.3	95.5
Norris	.....	0.5	14.0	23.0	5.0	7.9	6.4	28.5	6.0	91.3
Ovando	T.	.....	34.5	20.5	14.0	12.1	20.5	9.5	1.5	112.6
Philipsburg	T.	.....	24.1	12.0	5.0	6.0	21.0	33.5	8.0	109.6
Pine Grove	5.0	.....	27.6	24.1	21.4	10.3	4.3	4.0	4.0	100.7
Plevna	T.	.....	13.4	5.5	7.1	18.9	8.2	3.0	.....	56.1
Poplar	.....	.....	6.0	7.5	6.0	14.3	5.0	4.2	(*)	.....
Red Lodge	T.	.....	13.0	16.0	20.0	12.5	9.0	34.5	6.0	111.0
Renova	T.	.....	10.0	13.5	3.0	6.0	5.0	(*)	.....	.....
Rock Springs	T.	T.	14.6	5.0	(*)	9.3	2.5	(*)	10.0	.....
Roundup	.....	.....	14.0	11.0	10.0	7.5	1.0	(*)	.....	.....
St. Ignatius	.....	.....	17.0	7.5	14.5	11.6	8.5	2.0	.....	45.8
Savage	.....	.....	3.0	5.0	6.5	8.6	4.0	2.5	.....	29.6
Snowbelt	(*)	.....	7.2	6.3	(*)	(*)	(*)	(*)	.....	.....
Springbrook	.....	.....	5.6	5.0	7.7	12.5	3.0	2.0	(*)	.....
Sun River Canyon	(*)	(*)	11.0	19.0	11.0	10.8	10.0	3.0	(*)	.....
Sunset Orchard	.....	.....	22.5	8.0	6.5	15.0	14.0	19.0	3.0	88.0
Thompson Falls	.....	.....	16.0	4.2	20.0	16.0	5.5	2.5	.....	64.2
Three Forks	1.0	.....	(*)	(*)	6.0	10.5	6.0	(*)	.....	.....
Trout Creek	.....	(*)	11.0	10.0	43.0	22.0	14.0	6.0	(*)	.....
Upper Yaak River	.....	.....	22.7	7.3	21.9	12.0	7.8	(*)	(*)	.....
Utica	6.0	.....	20.0	15.5	14.5	16.5	1.9	7.5	1.0	82.9
Valier	1.6	.....	11.5	13.5	3.0	1.1	5.0	6.0	2.5	44.2
Victor	T.	.....	23.0	1.5	2.0	6.0	10.0	1.0	2.0	45.5
Virginia City	4.5	0.5	16.5	9.0	8.0	9.0	12.0	19.0	10.0	88.5
White Sulphur Springs	4.0	.....	18.8	3.5	8.6	5.5	T.	9.0	T.	[9] 51.4
White Water	4.0	.....	4.8	T.	0.5	10.3	6.4	1.0	T.	27.0

[9] Includes July, 1921: Copper, 6.0; White Sulphur Springs, 2.0.
[10] Trace in July, 1921.

Monthly and seasonal snowfall, 1921–22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Nebraska.										
Ainsworth			4.0	5.0	11.0	(*)	10.0			
Albion		T.	7.0	5.0	11.0	T.	3.0	T.		26.0
Alma			1.0		1.5	T.	7.0	T.		9.5
Auburn				3.5	6.0		6.0			15.5
Beatrice				T.	5.1	T.	9.0	(*)	(*)	
Brewster		(*)	1.2	3.0	6.5	0.5	4.5	7.0		
Broken Bow			T.	1.0	8.5	T.	3.2			12.7
Chadron		T.	10.8	8.6	8.6	5.3	T.	11.8		45.1
Columbus			3.0	4.0	8.0	(*)	12.0	2.0		
Culbertson			2.3	1.5	1.7	0.4	6.0	4.0		15.9
David City			1.7	3.0	13.7	T.	11.5	1.0		30.9
Drexel			1.4	2.0	10.9	T.	4.6	T.		18.9
Fremont			0.5	1.4	8.0		5.5			15.4
Gosper			2.0	T.	2.5		3.5	4.0		12.0
Hartington			4.0	5.0	12.5	3.0	4.0	6.5		35.0
Hastings			1.0	2.0	6.0	T.	12.0			21.0
Hay Springs		T.	8.5	8.5	11.7	6.0	6.0	25.8		66.5
Hebron			(*)	1.0	2.0	1.0	2.0	(*)		
Hillside			0.5	6.0	5.0	2.0	3.0			16.5
Kimball		T.	1.0	12.0	6.0	5.0	3.0	9.0	T.	36.0
Lincoln			0.1	1.5	6.4	T.	3.3	T.		11.3
Nenzel			9.5	10.5	15.5	6.0	5.5	4.0		51.0
North Loup			1.3	1.5	6.8	0.7	2.2			12.5
North Platte			0.1	1.5	6.3	0.3	2.0	0.3		10.5
Oakdale			3.0	3.1	11.1	1.1	2.3	T.		20.6
Omaha			0.5	0.8	6.2	0.1	3.8	T.		11.4
O'Neill			3.5	6.0	7.5	3.0	5.0			25.0
Oshkosh			1.0	8.0	7.0	3.0	1.0	T.		20.0
Ravenna			1.5	1.8	5.1	T.	1.7	2.5		12.6
Scottsbluff		T.	7.0	14.2	2.7	2.9	2.0	15.8	0.5	45.1
Stanton			0.5	3.5	11.2	(*)	3.7	4.0	(*)	
Valentine			7.9	11.1	16.0	4.8	6.0	0.8		46.6
Wakefield			3.8	2.0	11.5	0.5	1.5	2.5		21.8
West Point			7.0	5.0	13.0	T.	18.0	2.0	(*)	
York			0.5	2.5	6.5	T.	11.0	1.0		21.5
Nevada.										
Alamo					5.0	T.	4.0	T.	6.5	15.5
Arthur		1.5	3.4	24.3	18.7	29.1	16.0	32.8	3.1	128.9
Austin			T.	12.0	22.5	22.0	20.5	14.0	6.0	97.0
Beatty					6.0		3.0	T.	T.	9.0
Beowawe				(*)	5.0	(*)	2.5	1.5		
Clover Valley			2.0	24.0	(*)	(*)	14.0	(*)	(*)	
Elko			0.2	11.0	16.0	26.0	(*)	T.		
Eureka	(*)	(*)	(*)	24.1	12.0	17.0	9.3	21.7	3.0	
Fallon			T.	1.5	4.4	7.6	1.3	2.6	1.1	18.5
Gerlach		T.	T.	7.5	2.5	5.0	(*)	(*)	(*)	
Golconda		T.	T.	7.5	9.0	9.0	1.0	(*)	(*)	
Gold Creek		1.0	6.0	23.7	(*)	27.9	30.5	(*)	3.0	
Goldfield				3.0	8.5	4.5	2.0	4.0	(*)	
Hylton		T.	T.	22.5	12.0	20.0	7.0	12.0		73.5
Imlay				10.7	8.0	12.5	(*)	2.0		
Jungo				4.0	3.0	(*)		T.		
Lahontan			T.	1.0	5.0	6.5	1.5	T.	0.5	14.5
Lamoille		T.	0	14.7	15.0	(*)	(*)	31.4	(*)	
Las Vegas					1.2					1.2
Logandale					0.5					0.5
Lovelock			T.	2.7	3.5	6.0		(*)	T.	
McGill		T.	T.	8.4	6.0	7.5	5.3	10.6	T.	37.8
Mahoney Ranger Station	0.5	1.0	3.0	14.0	30.0	41.0	14.0	17.0		120.5
Millett				T.	4.0	6.0		2.0		12.0
Mina			T.	T.	1.0		T.			1.0
Minden			0.1	16.5	10.0	24.0	3.0	T.		53.6
Montello		T.	T.	17.0	8.0	19.0	4.0	5.0		53.0
North Fork		1.0	4.0	30.0	17.0		11.0	7.0	T.	70.0
Owyhee	(*)	(*)	2.5	12.7	19.7	25.1	26.0	12.0	(*)	
Quinn River Ranch	(*)	(*)	(*)	7.3	1.5	6.5	(*)	(*)		
Rebel Creek			T.	6.5	4.0	12.0	3.0	2.0		27.5

Monthly and seasonal snowfall, 1921-22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Nevada—Continued.										
Reno	.....	0.3	2.3	12.6	5.4	32.5	4.4	5.8	T.	63.3
Rye Patch	.....	.....	T.	8.4	6.5	20.0	3.5	1.5	T.	39.9
Sand Pass	.....	.....	1.5	12.5	8.0	11.8	T.	T.	T.	33.8
San Jacinto	.....	T.	1.0	5.5	17.0	6.0	0.5	9.5	.....	39.5
Schurz	.....	.....	.....	T.	6.0	1.2	1.0	6.7	T.	14.9
Searchlight	.....	.....	.....	.....	2.5	T.	4.5	T.	T.	7.0
Sharp	.....	.....	.....	11.5	15.0	11.0	8.0	7.0	T.	52.5
Smith	.....	.....	.....	16.0	6.0	17.0	11.0	11.0	.....	61.0
Sulphur	.....	.....	.....	7.5	6.5	4.3	0.4	T.	3.0	21.7
Thorne	.....	.....	.....	.....	1.5	2.0	2.0	.....	T.	5.5
Tonopah	0.00	2.0	0.00	2.7	9.0	6.8	T.	5.1	2.5	28.1
Tuscarora	.....	T.	4.0	24.5	21.0	19.1	10.6	17.0	3.3	99.5
Vya	.....	0.4	4.0	25.0	15.0	49.0	(*)	(*)	(*)	.....
Winnemucca	.....	.....	T.	15.2	10.5	21.7	4.9	2.9	T.	55.2
Yerington	.....	.....	0.2	2.0	7.0	2.0	(*)	T.	T.	.....
New Hampshire.										
Alstead Center	.....	.....	34.0	10.0	19.0	27.0	28.0	7.0	.....	125.0
Berlin	.....	0.2	23.1	16.2	16.8	18.3	16.7	8.5	.....	99.8
Bethlehem	.....	2.7	28.4	13.1	11.4	18.9	(*)	(*)	.....	.....
Concord	.....	.....	20.1	9.6	13.2	19.5	8.3	4.9	.....	75.6
Durham	.....	.....	17.0	16.0	10.2	20.0	8.0	13.5	.....	84.7
Franklin	.....	.....	26.8	10.5	19.8	24.0	9.5	9.0	.....	99.6
Hanover	.....	.....	29.7	7.9	16.2	22.9	15.1	14.8	.....	106.6
Keene	.....	.....	31.2	9.0	4.9	19.0	12.0	6.5	.....	82.6
Pittsburg (a)	.....	6.4	44.6	37.5	29.8	43.6	17.1	12.7	.....	191.7
Plymouth	.....	.....	34.5	11.0	14.5	27.0	9.8	10.0	.....	106.8
New Jersey.										
Atlantic City	.....	.....	.....	3.4	9.2	12.6	T.	.....	.....	25.2
Bridgeton	.....	.....	.....	6.0	8.0	8.5	T.	.....	.....	22.5
Cape May	.....	.....	.....	4.2	9.1	14.9	T.	.....	.....	28.2
Dover	.....	.....	0.2	8.2	15.0	9.1	4.2	T.	.....	36.7
Flemington	.....	.....	T.	7.5	6.0	6.7	6.0	.....	.....	26.2
Indian Mills	.....	.....	.....	7.5	12.0	8.0	1.0	.....	.....	28.5
Lakewood	.....	.....	.....	6.5	.....	5.0	.....	T.	.....	.....
Layton	.....	.....	0.5	4.1	9.5	14.0	7.5	T.	.....	35.6
Newton	.....	.....	T.	6.8	13.0	14.2	12.0	T.	.....	46.0
Plainfield	.....	.....	0.5	7.0	9.8	6.5	3.2	.....	.....	27.0
Ridgefield	.....	.....	T.	8.5	12.2	7.7	5.4	0.3	.....	34.1
Sandy Hook	.....	.....	T.	4.3	3.7	3.6	3.9	.....	.....	15.5
South Orange	.....	.....	T.	8.5	13.0	8.7	4.0	T.	.....	34.2
Trenton	.....	.....	T.	7.8	13.5	6.6	2.0	.....	.....	29.9
Tuckerton	.....	.....	.....	5.5	12.0	.....	.....	.....	.....	.....
New Mexico.										
Abbott	.....	.....	T.	1.0	1.5	11.0	0.5	1.0	.....	15.0
Agricultural College	.....	.....	.....	.....	.....	.....	T.	.....	.....	T.
Albuquerque	.....	.....	.....	0.4	T.	0.7	4.2	T.	.....	5.3
Alma	.....	.....	.....	1.1	T.	T.	1.2	.....	.....	2.3
Aragon	.....	.....	(*)	(*)	10.0	7.0	15.0	4.0	.....	.....
Artesia	.....	.....	.....	.....	T.	0.5	T.	.....	.....	0.5
Aspen Grove Ranch	.....	3.0	4.0	17.0	18.5	18.5	11.0	7.0	4.0	83.0
Aurora	.....	.....	1.0	4.0	6.5	6.0	7.0	1.0	4.0	29.5
Baldwin Ranger Station	.....	.....	.....	15.0	13.0	12.5	0.5	2.0	.....	43.0
Barton	.....	.....	.....	6.0	2.5	12.5	13.5	.....	.....	34.5
Bateman's Ranch	.....	9.0	3.5	17.3	25.2	23.8	4.7	3.5	5.0	[11] 93.0
Bell Ranch	.....	.....	T.	.....	2.0	3.0	6.0	.....	.....	11.0
Bellview	.....	.....	.....	.....	1.5	1.0	.....	(*)	.....	.....
Black Lake	.....	.....	0.2	T.	2.0	4.5	4.0	2.0	1.0	13.7
Blackrock	.....	.....	T.	5.5	11.0	5.0	4.0	0.5	3.0	29.0
Bloomfield	.....	.....	T.	1.0	5.7	2.4	0.7	T.	T.	9.8
Buchanan (near)	.....	.....	.....	.....	T.	2.5	9.0	.....	.....	11.5
Cambray	.....	.....	.....	1.0	.....	0.5	0.1	.....	.....	1.6
Carlsbad	.....	.....	.....	.....	0.5	0.2	0.2	.....	.....	0.9
Chacon	.....	.....	T.	5.0	4.0	19.0	5.5	T.	.....	33.5

[11] Includes June, 1922: Bateman's Ranch, 0.5.

Monthly and seasonal snowfall, 1921–22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
New Mexico—Continued.										
Chama		2.0	7.0	18.2	20.0	36.0	22.5	2.0	2.5	110.2
Cimarron (near)			T.	0.5	12.0	6.0	T.	T.		8.5
Clayton			T.	1.0	1.0	7.2	6.5	2.0		17.7
Cloudcroft		T.	3.5	7.7	20.0	2.0	8.0	5.0	T.	46.2
Cloverdale					8.0		6.0			14.0
Corona			T.	T.	0.2	3.2	10.0			13.4
Crown Point		(*)	(*)	(*)	19.5	8.5	(*)	(*)	(*)	
Cuervo					1.0	2.0	9.0			12.0
Des Moines		T.	T.	1.0	3.0	10.0	7.0	(*)	(*)	
Dulce		1.0	5.0	19.5	17.0	23.5	32.0	1.0	2.0	101.0
Elephant Butte Dam						1.0	(*)			
Elizabethtown		T.	1.0	2.0	9.3	14.0	3.8	T.		30.1
Espanola				2.6	T.	5.5	1.5			9.6
Fort Stanton			T.	1.0	5.0	2.0	2.5			10.5
Glorieta Ranch						4.0				4.0
Harvey's Upper Ranch		1.5	0.5	15.5	(*)	25.0	16.0	11.5		
Haynes		T.	1.0	11.5	11.0	7.0	5.0	T.	1.0	36.5
Hermosa				7.0	T.	T.	6.0	T.		13.0
Hobbs				T.		0.2	0.5			0.7
Hope						0.5	5.5			6.0
Jemez Springs				8.5	5.5	11.5	5.5	T.		31.0
Las Vegas				2.0	4.2	11.5	5.5	1.0		24.2
Lordsburg							2.0			2.0
Los Lunas (near)				1.5	T.	T.	4.0			5.5
Maxwell (near)					4.0	6.0	4.0			14.0
Meek				6.0	T.	2.0	10.0	(*)	(*)	
Mineral Hill		1.0	0.2	4.5	6.0	(*)	(*)	(*)	(*)	
Mosquero				T.	2.5	4.0	1.0			7.5
Mountainair (near)			T.	5.8	5.2	(*)	(*)	(*)	(*)	
Mountain Park			T.	3.5	6.0	1.0	4.5			15.0
Nara Visa				T.	T.	2.0	2.0			4.0
Newman				1.0	0.5					1.5
Nogal (near)				6.0	13.5	3.5	11.0	T.		34.0
Palma			T.	T.	T.	12.0	10.0			22.0
Pastura				T.	1.0	2.0	5.0			8.0
Pinon (near)				1.0	2.0	0.5	(*)	(*)	(*)	
Pinos Altos (near)			3.0	10.0	21.5	4.5	15.4	5.0		
Plainview (near)					0.8	0.1	0.5			1.4
Raton (near)		1.0		2.5	3.0	4.0	5.0	T.		15.5
Red River Canyon		4.0	2.0	13.0	27.0	15.0	25.0	12.0	8.0	106.0
Richland (near)				0.5	T.	1.0	3.0	T.		4.5
Rociada				6.0	4.5	15.0	5.0	T.	T.	30.5
Roswell				T.	T.	1.4	4.4			5.8
Santa Fe		T.	T.	8.7	10.2	8.6	4.7	0.5		32.6
Santa Rosa					1.0	2.0	8.0			11.0
Schuster Springs Ranger Station		0.5	1.0	18.0	22.0	8.0	10.0	5.0		64.5
Senorito (near)		4.0	T.	16.0	13.0	23.0	10.0	4.0	1.0	71.0
Silver City			T.	3.8	7.0	1.2	6.1	T.	T.	18.1
Tajique (near)		T.	1.0	6.6	10.4	15.2	19.1	0.5	T.	52.8
Taos Canyon		3.0	2.8	9.5	16.5	23.8	15.5	7.5	0.8	79.4
Tres Piedras			T.	7.0	9.0	11.5	3.8	T.		31.3
Truchas		1.0		6.5	8.5	11.5	10.5	3.0		41.0
Tucumcari (near)					0.5	3.0	12.0			15.5
Tularosa					T.	T.	2.5			2.5
Winsor's Ranch		2.0	T.	8.0	10.0	20.0	7.0	1.0		48.0
New York.										
Adams Center			33.5	14.0	34.0	21.0	19.0	7.0		128.5
Addison			2.8	3.0	16.2	5.3	7.9	T.		35.2
Albany			2.5	2.8	16.7	8.8	9.2	T.		40.0
Bedford Hills				0.9	15.3	13.1	33.5			62.8
Binghamton			0.9	5.8	15.9	8.8	11.3	T.		42.7
Bolivar			5.5	9.0	22.0	18.5	11.0	T.		66.0
Brockport			(*)	4.2	31.5	7.5	9.0	2.0		
Buffalo		T.	8.4	3.9	9.6	8.9	9.0	T.		39.8
Canton		T.	14.5	6.3	15.8	20.2	8.2	13.0		78.0
Chazy	(*)		18.0	6.5	8.0	15.0	2.0	8.5		58.0
Cooperstown			3.7	6.0	3.9	8.1	18.4	1.0		41.1
De Ruyter			4.7	8.2	15.8	17.4	12.8	4.4		63.3

Monthly and seasonal snowfall, 1921-22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
New York—Continued.										
Elmira			1.5	4.7	20.8	9.0	6.5	T.		42.5
Geneva			6.0	8.5	17.5	11.0	10.5	T.		53.5
Glens Falls			11.0	9.5	19.2	15.8	7.5	6.0		69.0
Gloversville			16.5	13.5	28.0	19.0	10.0	2.0		89.0
Hudson			1.0	3.0	17.0	8.0	11.5	T.		40.5
Ithaca		T.	2.2	8.8	28.1	8.2	10.3	0.2		57.8
Jeffersonville			2.0	4.0	11.0	13.0	8.0	1.0		39.0
Lake Placid Club		1.0	(*)	12.0	26.0	16.0	12.0	13.0		
Lauterbrunnen		T.	6.0	9.2	11.0	16.0	15.0	T.		57.2
Lockport			(*)	8.3	16.5	7.0	5.5	(*)		
Lowville		0.2	9.5	10.9	37.0	28.5	13.6	1.3		101.0
Medford			T.	5.6	13.2	8.6	4.5			31.9
Moira		T.	20.0	3.0	14.0	33.0	11.0	1.0		82.0
New York City			T.	7.3	9.9	8.0	3.5			28.7
North Lake		1.0	19.0	25.5	39.5	35.0	22.5	10.0		152.5
North Rose			6.0	2.2	(*)	(*)	(*)	(*)		
Norwich				9.5	20.0	15.5	10.5	2.5		58.0
Oswego			6.8	7.7	24.6	17.1	10.5	T.		66.7
Perrysburg			4.8	11.0	31.0	22.0	8.0	0.5		77.3
Port Jervis			0.4	4.1	13.1	10.7	5.5	T.		33.8
Raquette Lake		0.7	21.6	21.5	(*)	33.8	14.6	19.7		
Rhinebeck			1.0	1.0	14.3	12.8	5.9	T.		35.0
Rochester			10.7	6.9	25.5	8.1	8.1	0.4		59.7
Roxbury		T.	4.3	13.0	20.4	12.0	17.0	4.7		71.4
Setauket			0.3	6.7	8.1	12.5	6.5			34.1
Syracuse		T.	5.0	6.8	31.6	13.0	13.5	7.7		77.6
Walton				5.5	16.0	10.5	17.0	1.5		50.5
Warwick			1.0	3.0	16.0	16.0	8.0			44.0
West Berne			7.0	3.0	21.0	9.0	19.0	2.0		61.0
York		T.	8.1	6.5	14.8	9.7	8.6	T.		47.7
North Carolina.										
Asheville			T.		4.7	6.9	0.2			11.8
Banners Elk			T.	T.	8.0	19.0	1.5			28.5
Beaufort					T.	T.				T.
Brewers					6.0	4.0				10.0
Caroleen					4.0	(*)	0.0			
Charlotte					1.8	1.2				3.0
Cullowhee			T.	T.	5.2	4.2	T.			9.4
Elizabeth City					3.0	3.0				6.0
Fayetteville					1.2	T.				1.2
Goldsboro				T.	3.0	1.5				4.5
Greensboro					8.8	6.0				14.8
Hatteras					T.	T.				T.
Henderson					22.5	2.0				24.5
Hendersonville					2.0	(*)	T.			
Hickory					4.7	1.2				5.9
Hot Springs			T.		4.0	8.0	3.0			15.0
Jefferson		T.	T.	T.	10.9	9.0	T.			19.9
Lenoir					10.0	T.				10.0
Lumberton					1.2	1.0				2.2
Marion					8.0	0.5				8.5
Montreat			1.0	T.	2.7	4.5	T.			8.2
Mount Airy					11.0	2.0				13.0
New Bern					1.0	T.				1.0
Pinehurst					3.0	2.0				5.0
Raleigh					9.5	1.9				11.4
Rock House			T.		3.0	0.8	T.			3.8
Rockingham					0.8	T.				0.8
Salisbury					3.5	2.8				6.3
Siler City					12.0	2.0				14.0
Sloan					1.0	T.				1.0
Tarboro					6.0	3.0				9.0
Weldon					5.8	4.5				10.3
Wenona					4.3	2.0				6.3
Wilmington					2.4	T.				2.4
Winston-Salem					10.8	3.0				13.8

Monthly and seasonal snowfall, 1921–22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
North Dakota.										
Amenia	.....	T.	4.3	16.0	16.0	23.0	1.5	2.0	.....	62.8
Arnegard	.....	.....	4.0	6.0	1.0	8.2	8.0	4.0	.....	31.2
Ashley	.....	.....	10.0	7.5	4.0	23.0	6.0	2.0	.....	52.5
Berthold Agency	.....	T.	5.8	5.5	4.7	10.0	2.2	1.6	.....	29.8
Bismarck	.....	T.	9.0	3.9	3.9	17.8	6.8	0.3	.....	41.7
Carson	.....	T.	9.7	5.0	2.0	20.0	7.8	0.6	.....	45.1
Cooperstown	.....	T.	2.0	3.8	9.0	8.0	8.0	.....	.....	30.8
Crosby	.....	T.	4.7	4.0	3.6	3.5	6.4	4.5	.....	26.7
Devils Lake	.....	0.2	5.1	7.8	6.3	9.3	5.3	0.6	.....	34.6
Dickinson	T.	0.0	4.5	6.0	2.2	10.9	3.7	3.1	.....	30.4
Donnybrook	.....	.....	8.0	T.	2.0	5.0	1.0	3.5	.....	19.5
Dunn Center	.....	T.	4.5	6.0	3.0	19.0	0.5	T.	.....	33.0
Dunseith	.....	.....	6.2	1.0	5.2	3.0	7.0	2.0	.....	24.4
Eckman	.....	.....	8.0	3.0	5.0	13.0	7.0	4.0	.....	40.0
Ellendale	.....	.....	6.4	2.8	5.1	17.0	5.6	0.4	.....	37.3
Fessenden	.....	T.	13.9	5.5	4.1	10.5	4.3	2.0	.....	40.3
Fryburg	.....	T.	13.0	6.0	4.5	16.0	3.0	2.0	3.0	47.5
Fullerton	.....	.....	10.6	9.1	11.2	31.6	12.2	1.7	.....	76.4
Grand Forks	.....	3.0	3.6	3.5	5.2	19.6	7.6	0.8	.....	43.3
Hannah	.....	T.	8.0	6.0	8.0	9.0	10.0	6.0	.....	47.0
Howard	T.	T.	11.5	1.6	1.2	4.2	17.0	9.5	2.0	47.0
Jamestown	.....	.....	6.0	6.8	6.2	14.2	9.5	4.5	.....	47.2
Lamoine	.....	T.	1.0	3.0	2.5	5.7	5.9	1.0	.....	18.2
Larimore	.....	.....	3.5	6.8	5.0	14.0	9.0	0.3	.....	38.6
Lisbon	.....	.....	0.5	8.0	14.5	21.0	4.0	8.0	.....	56.0
McClusky	.....	T.	8.5	4.5	7.0	16.0	4.5	4.5	.....	45.0
McKinney	.....	.....	6.5	T.	4.5	10.0	12.5	5.0	.....	38.5
Manfred	.....	T.	7.6	5.5	6.5	9.2	3.5	3.5	.....	35.8
Minot	.....	.....	7.2	0.8	2.2	21.2	6.0	4.0	.....	41.4
Mott	.....	.....	11.5	5.5	8.5	15.3	6.5	T.	.....	47.3
Napoleon	.....	T.	5.0	4.0	2.0	10.0	1.0	.....	.....	22.0
New Salem	.....	.....	8.0	3.1	1.4	16.1	6.8	2.0	.....	37.4
Pembina	.....	.....	4.0	2.0	4.0	10.0	16.0	T.	.....	36.0
Pettibone	.....	.....	3.8	5.7	5.5	9.0	2.3	0.5	.....	26.8
Powers Lake	.....	.....	9.5	0.5	6.0	7.0	4.5	3.5	.....	31.0
Turtle Lake	.....	T.	5.8	3.0	3.8	13.5	2.2	1.7	.....	30.0
Valley City	.....	0.2	7.0	3.0	10.8	33.5	8.2	2.0	.....	64.7
Wahpeton	.....	T.	5.0	4.7	6.0	18.0	3.0	4.0	.....	40.7
Williston	.....	.....	6.5	4.5	5.0	8.3	8.2	4.0	1.5	38.0
Ohio.										
Akron	.....	.....	2.7	6.0	7.7	4.0	4.8	3.0	.....	28.2
Amesville	.....	.....	T.	3.5	5.0	3.0	0.5	.....	.....	12.0
Ashland	.....	T.	7.5	5.0	5.0	3.0	5.5	2.0	.....	28.0
Cadiz	.....	T.	4.2	11.2	5.9	1.9	8.2	0.5	.....	31.9
Canton	.....	.....	6.2	5.5	8.2	4.3	6.6	1.5	.....	32.3
Cincinnati	.....	T.	T.	2.8	1.8	2.3	6.4	T.	.....	13.3
Cleveland (Weather Bureau)	.....	T.	0.9	7.9	7.3	4.8	5.7	0.2	.....	26.8
Columbus	.....	T.	1.8	4.1	3.4	2.5	3.1	T.	.....	14.9
Dayton (Weather Bureau)	.....	T.	1.0	4.3	3.7	0.5	3.1	.....	.....	12.6
Hiram	.....	.....	4.5	9.5	14.0	8.0	9.0	1.0	.....	46.0
Ironton	.....	T.	T.	0.5	1.2	2.0	0.5	.....	.....	4.2
Kenton	.....	.....	6.0	6.0	3.0	2.0	1.0	T.	.....	18.0
Marietta Experiment Farm	.....	.....	T.	4.5	1.0	3.0	2.0	.....	.....	10.5
Marion	.....	.....	6.5	7.0	5.0	4.0	4.0	T.	.....	26.5
Millersburg	.....	.....	5.0	5.3	7.0	2.5	4.8	1.5	.....	26.1
Millport	.....	.....	8.2	7.6	4.3	3.6	6.0	2.3	.....	32.0
Ottawa	.....	.....	5.5	6.5	6.8	0.5	2.5	0.5	.....	22.3
Sandusky	.....	T.	1.8	4.2	4.5	3.2	4.0	0.8	.....	18.5
Sidney	.....	T.	4.7	3.2	4.5	0.2	0.6	.....	.....	13.2
Summerfield	.....	.....	0.5	11.5	(*)	2.1	4.5	T.	.....	.....
Tiffin	.....	.....	4.0	4.0	3.0	5.0	5.0	1.0	.....	22.0
Toledo	.....	.....	2.1	5.2	7.0	2.8	7.0	2.1	.....	26.2
Wapakoneta	.....	T.	6.5	2.5	9.5	5.7	2.4	T.	.....	26.6
Wauseon	.....	T.	1.0	4.0	6.5	2.5	4.5	3.0	.....	21.5
Waverly	.....	.....	T.	2.0	0.5	1.2	3.0	.....	.....	6.7
Wilmington	.....	.....	T.	6.0	4.0	3.0	4.0	.....	.....	17.0
Zanesville	.....	.....	0.8	6.5	4.0	0.8	3.5	.....	.....	15.6

Monthly and seasonal snowfall, 1921-22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Oklahoma.										
Ada						4.0				4.0
Altus				T.		2.7	T.			2.7
Alva				T.	2.0	8.5	T.			10.5
Ardmore						1.5				1.5
Beaver				5.0	T.	10.0	16.0			31.0
Blackwell					2.0	6.0				8.0
Broken Arrow				T.	0.5	4.5	0.5			5.5
Broken Bow						T.				T.
Buffalo				4.0	T.	10.0	16.0			30.0
Carnegie				T.	T.	3.0	0.1			3.1
Chandler				T.	1.0	6.0				7.0
Chickasha				T.		4.0				4.0
Claremore				T.	0.9	6.0	T.			6.9
Cleveland				T.	1.2	4.5	T.			5.7
Cloud Chief				T.		3.0	0.3			3.3
Durant						1.5	T.			1.5
Enid				(*)	(*)	12.0	2.0			
Erick					1.5	3.0	5.0			9.5
Guthrie				T.	0.5	2.5				3.0
Hammon					1.1	4.0	4.0			9.1
Holdenville					0.6	2.0				2.6
Hooker			T.	2.0	0.5	8.0	10.5	T.		21.0
Hugo										0.0
Kenton			0.1	2.6	0.6	10.9	2.7	3.5		20.4
Kingfisher					0.2	5.0				5.2
Lawton						3.6				3.6
McAlester					T.	1.3	0.4			1.7
Muskogee					0.6	3.5	0.1			4.2
Okeene					2.0	2.2				4.2
Oklahoma City				0.8	0.6	3.0	T.			4.4
Okmulgee					0.5	2.0	1.0			3.5
Pauls Valley					(*)	3.0				
Pawhuska			T.	T.	1.5	4.5				6.0
Poteau				T.						T.
Shawnee				T.	0.2	4.0				4.2
Stillwater				T.	1.6	5.0				6.6
Tulsa			T.	T.	0.2	6.0	0.5			6.7
Tuskahoma					T.	T.	T.			T.
Vinita				T.	1.2	3.0				4.2
Waurika					T.	3.0		T.		3.0
Weatherford				T.	T.	2.0	1.0			3.0
Woodward				T.		10.0	7.0	T.		17.0
Oregon.										
Albany				5.1	1.5	2.0	7.5			16.1
Andrews			0.1	9.5	5.1	13.8	3.0	1.8	T.	33.3
Ashland			T.	0.8	10.8	7.5	9.0	3.5	3.5	35.1
Astoria					0.4	T.				0.4
Baker			8.6	6.0	10.1	11.3	6.0	0.3	T.	42.3
Bear Creek		T.	12.0	11.0	17.2	29.0	16.0	4.4	1.8	91.4
Bear Valley		0.5	9.0	6.5	20.5	22.2	11.2	5.8		75.7
Beech Creek		T.	16.5	9.0	20.0	26.0	17.0	16.5	6.5	111.5
Bend			2.0	9.0	11.5	15.0	16.8	4.0	4.0	62.3
Blitzen			0.5	8.0	23.0	7.0	1.0	3.0	(*)	
Butte Falls			T.	1.5	9.0	22.0	20.0	16.0	5.5	74.0
Cascade Locks			27.5	8.5	34.5	3.0	T.	T.		73.5
Cazadero				10.0	1.5	T.	3.0	T.		14.5
Chiloquin			2.5	18.0	19.0	26.0	22.5	7.5	4.0	99.5
Clarno			2.5	3.5	9.0	8.0				23.0
Condon			21.0	12.5	8.0	9.0	9.2	5.0		64.7
Cornucopia		4.5	61.8	36.2	85.8	83.3	51.7	23.5	6.0	352.8
Corvallis				7.0	1.5		0.5	T.		9.0
Cove	1.5		20.0	9.5	15.5	25.3	24.5	8.0	1.0	105.3
Crater Lake	2.0	15.8	(*)	25.7	47.5	66.0	57.5	35.0	9.6	
Dayville			2.5	3.1	4.4	3.8	T.	T.	T.	13.8
Detroit			4.5	10.0	44.5	18.0	21.0	8.5		106.5
Doraville				6.3	15.1	4.9	7.9	2.8	T.	37.0
Drain				2.8	T.	0.5	1.5		0.5	5.3

Monthly and seasonal snowfall, 1921–22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Oregon—Continued.										
Drewsey	.....	.....	T.	11.0	22.5	23.0	10.5	2.5	(*)	.....
Dufur	.....	T.	37.5	14.9	21.0	9.3	5.1	1.3	.....	89.1
Echo	.....	.....	22.0	6.0	16.7	4.0	.....	.....	.....	48.7
Eugene	.....	.....	.....	1.2	3.3	1.0	1.0	T.	.....	6.5
Fish Lake	.....	2.0	13.8	(*)	21.0	36.0	50.0	35.0	(*)	.....
Forest Grove	.....	.....	.....	4.5	4.2	3.0	0.8	0.5	.....	13.0
Fremont	.....	.....	(*)	18.5	13.5	38.3	4.9	3.8	10.4	.....
Government Camp	T.	2.0	76.0	21.0	75.0	36.0	88.0	51.0	14.0	363.0
Grants Pass	.....	.....	.....	6.5	.....	5.0	T.	T.	T.	11.5
Harper	.....	.....	0.7	8.4	9.2	10.5	1.6	T.	.....	30.4
Heppner	.....	.....	18.0	3.0	8.0	7.0	0.5	T.	.....	36.5
Hermiston	.....	.....	20.5	3.0	10.9	2.5	.....	.....	.....	36.9
Hilgard	1.0	.....	38.0	6.0	17.0	17.0	16.0	4.0	T.	98.0
Hillcrest Orchard	.....	.....	.....	1.5	8.4	5.1	1.5	.....	1.2	17.7
Hood River	.....	.....	37.5	14.0	23.0	10.5	T.	T.	.....	85.0
Howardville	3.0	.....	48.0	24.9	32.3	43.5	31.1	23.2	1.5	207.5
Ibex Mine	T.	4.5	59.0	30.0	35.0	(*)	30.0	17.0	.....	.....
Joseph	T.	.....	31.5	7.0	13.8	16.5	24.5	19.5	8.0	120.8
Kingman	.....	.....	T.	7.0	6.0	6.0	T.	1.0	.....	20.0
Klamath Falls	.....	.....	0.5	13.2	7.8	16.2	9.2	4.0	5.0	55.9
La Grande	T.	.....	28.0	5.0	24.0	16.0	6.5	T.	T.	79.5
Lake Creek	.....	.....	1.0	1.5	19.5	12.5	14.0	5.5	7.5	61.5
Lakeview	.....	0.5	10.4	9.8	5.3	20.4	6.9	8.4	5.0	66.7
Lapine	.....	T.	1.0	15.8	12.2	24.3	22.2	12.6	6.3	94.4
Madras	.....	.....	3.0	5.5	3.0	7.8	5.0	.....	.....	24.3
Marshfield	.....	.....	.....	.....	0.3	0.3	T.	.....	.....	0.6
Medford	.....	.....	.....	1.5	3.5	5.0	1.0	.....	.....	11.0
Merrill	.....	.....	0.5	12.1	(*)	12.5	8.1	(*)	1.5	.....
Mikkalo	.....	.....	24.0	9.0	9.0	9.0	T.	.....	.....	51.0
Milton	.....	.....	20.0	2.0	11.0	1.0	.....	.....	.....	34.0
Newhall Ranch	.....	.....	.....	2.2	2.0	7.5	0.5	T.	.....	12.2
Newport	.....	.....	.....	3.0	.....	2.0	0.2	.....	.....	5.2
Ochoco	.....	.....	11.0	3.5	21.0	11.3	15.0	17.0	1.0	79.8
Olive Lake	T.	4.0	44.0	25.5	36.0	44.0	46.2	35.2	4.0	238.9
Ortley	.....	.....	57.0	13.0	20.0	16.5	7.0	7.5	.....	121.0
Pendleton	.....	.....	34.0	17.0	20.5	8.5	T.	.....	.....	80.0
Pilot Rock	.....	.....	31.5	4.0	7.0	6.0	T.	0.5	.....	49.0
Portland	.....	.....	.....	4.3	1.7	T.	T.	T.	T.	6.0
Port Orford	.....	.....	.....	.....	0.5	0.5	0.6	.....	0.5	2.1
Prairie City	.....	T.	9.5	3.1	18.4	11.7	10.8	8.0	1.5	63.0
Prineville	.....	.....	T.	4.5	2.0	2.0	0.5	.....	T.	9.0
Prospect	.....	.....	1.1	7.2	27.7	31.6	32.7	15.0	2.2	117.5
Reservoir No. 3	.....	.....	3.2	14.7	27.8	18.7	5.3	6.0	.....	75.7
Riverside	.....	.....	T.	7.8	9.5	12.5	1.0	.....	.....	30.8
Rock Creek	.....	.....	24.8	12.5	24.5	37.2	39.8	8.2	.....	147.0
Roseburg	.....	.....	.....	2.2	2.4	0.7	0.2	T.	1.5	7.0
Round Grove	.....	T.	2.0	9.5	12.7	25.2	20.0	5.2	5.2	79.8
Salem	.....	.....	.....	6.6	0.2	0.9	.....	T.	.....	7.7
Silver Lake	.....	.....	.....	11.7	11.9	20.0	13.1	(*)	5.0	.....
Siskiyou	.....	T.	7.0	18.5	30.0	50.0	41.0	27.0	8.0	173.5
Sparta	.....	3.0	33.0	9.0	36.0	29.0	7.0	T.	(*)	.....
Starkey	T.	T.	25.0	2.1	16.0	9.5	17.0	1.0	T.	70.6
Sunrise Valley	.....	.....	T.	6.8	7.3	16.5	8.0	0.8	.....	39.4
Talent	.....	.....	.....	T.	8.0	6.5	2.0	T.	1.0	17.5
The Dalles	.....	.....	54.0	8.5	10.5	3.2	T.	.....	.....	76.2
Tule Lake	.....	.....	T.	13.0	2.5	3.5	3.2	0.2	(*)	.....
Umatilla	.....	.....	12.0	2.0	7.6	2.5	.....	T.	.....	24.1
Union	T.	.....	28.0	16.0	5.5	11.8	2.5	T.	0.3	64.1
Valley Falls	.....	.....	1.0	12.0	6.0	16.0	8.0	1.1	1.0	45.1
Waldo	.....	.....	T..	26.8	13.0	(*)	21.0	5.0	3.0	.....
Wallace Orchard	.....	.....	.....	5.6	0.5	3.0	T.	0.5	.....	9.6
Wallowa	0.6	.....	36.1	5.8	16.6	17.4	12.5	3.1	.....	92.1
Warmspring	.....	.....	T.	2.0	12.0	3.0	T.	.....	.....	17.0
Wasco	.....	.....	32.0	10.5	7.0	12.0	T.	.....	.....	61.5
Welches (near)	.....	.....	1.0	4.0	28.0	9.0	22.0	2.0	T.	66.0
Weston	.....	.....	26.0	5.5	16.0	5.0	4.5	0.5	T.	57.5
Williams	.....	.....	.....	16.5	6.5	2.3	14.0	T.	T.	39.3
Yonna	.....	.....	0.7	20.6	12.2	19.4	6.1	5.9	2.8	67.7

Monthly and seasonal snowfall, 1921-22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Pennsylvania.										
Altoona	.....	T.	4.0	8.0	22.0	14.0	8.0	T.	.....	56.0
Beaver Dam	.....	.....	5.0	6.4	9.0	2.1	8.0	3.0	.....	33.5
Bradford	.....	T.	2.3	10.8	9.5	10.7	12.0	T.	.....	45.3
Brookville	.....	.....	(*)	8.0	11.0	(*)	7.5	.....	.....	.....
Catawissa	.....	.....	T.	4.5	31.5	12.5	4.5	T.	.....	53.0
Chambersburg	.....	.....	.....	8.5	22.3	7.4	1.5	T.	.....	39.7
Claysville	.....	.....	4.0	11.6	5.2	1.2	10.1	T.	.....	32.1
Clearfield	.....	.....	1.5	12.5	19.0	13.0	13.0	(*)	.....	.....
Coatesville	.....	.....	.....	6.7	33.6	9.1	4.0	.....	.....	53.4
Emporium	.....	.....	0.5	1.8	10.0	6.8	6.0	T.	.....	25.1
Erie	.....	1.0	7.2	2.9	9.0	4.7	13.0	.....	.....	37.8
Franklin	.....	.....	0.8	4.3	7.4	1.0	11.0	.....	.....	24.5
Gettysburg	.....	.....	.....	13.5	22.5	9.2	2.0	0.2	.....	47.4
Gouldsboro	.....	.....	1.8	5.2	26.0	16.1	3.0	.....	.....	52.1
Greensburg	.....	.....	3.5	13.4	14.3	6.6	8.2	2.5	.....	48.5
Harrisburg	.....	.....	T.	5.0	16.8	8.0	2.5	T.	.....	32.3
Indiana	.....	.....	2.0	12.3	12.5	4.0	5.0	2.5	.....	38.3
Johnstown	.....	T.	1.7	10.5	19.8	8.6	10.5	2.2	.....	53.3
Lancaster	.....	.....	.....	7.0	22.0	9.0	2.0	.....	.....	40.0
Linesville	.....	.....	4.0	4.8	8.2	7.0	8.0	T.	.....	32.0
Mauch Chunk	.....	.....	T.	8.0	19.0	11.5	6.0	T.	.....	44.5
Mifflintown	.....	.....	T.	5.9	14.8	9.5	4.0	T.	.....	34.2
Montrose	.....	.....	3.0	10.0	16.0	11.0	8.0	.....	.....	48.0
Muncy Valley	.....	.....	T.	2.9	19.2	5.3	3.0	.....	.....	30.4
Philadelphia (Weather Bureau)	.....	.....	T.	5.9	15.6	5.2	1.3	.....	.....	28.0
Pittsburgh	.....	T.	2.5	7.2	6.3	3.4	11.0	3.0	.....	33.4
Quakertown	.....	.....	T.	7.2	20.9	8.3	2.8	.....	.....	39.2
Reading	.....	.....	2.0	4.1	18.8	10.4	2.8	.....	.....	38.1
Scranton	.....	.....	1.6	3.7	10.2	8.6	5.7	0.1	.....	29.9
Sharon	.....	T.	1.0	3.8	8.5	3.5	1.5	T.	.....	18.3
Somerset	.....	.....	6.0	25.0	30.4	10.2	16.0	3.0	.....	90.6
State College	.....	T.	1.5	6.3	19.8	9.2	5.0	T.	.....	41.8
Towanda	.....	.....	1.9	5.0	17.9	5.2	11.2	T.	.....	41.2
Uniontown	.....	.....	5.5	5.0	12.0	2.0	5.0	T.	.....	29.5
Warren	.....	T.	5.1	11.1	6.2	7.6	9.3	1.1	.....	40.4
Wellsboro	.....	T.	4.3	3.7	23.5	11.0	(*)	T.	.....	.....
West Bingham	.....	T.	8.5	4.5	11.5	7.0	8.0	T.	.....	39.5
Williamsport	.....	T.	0.3	3.4	17.9	7.2	3.5	T.	.....	32.3
York	.....	.....	.....	8.0	25.0	10.0	4.0	T.	.....	47.0
Porto Rico.[12]										
Rhode Island.										
Block Island	.....	.....	T.	3.8	3.1	10.3	4.6	T.	.....	21.8
Bristol	.....	T.	.....	2.1	3.8	13.5	11.9	1.6	.....	32.9
Kingston	.....	.....	0.5	2.0	6.5	16.0	9.5	T.	.....	34.5
Providence	.....	.....	0.5	2.4	2.7	13.9	10.5	0.4	.....	30.4
South Carolina.										
Aiken	.....	.....	.....	.....	1.0	.....	.....	.....	.....	1.0
Blackville	.....	.....	.....	.....	3.0	.....	.....	.....	.....	3.0
Catawba	.....	.....	.....	.....	T.	T.	.....	.....	.....	T.
Charleston	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Cheraw	.....	.....	.....	.....	T.	T.	.....	.....	.....	T.
Clemson College	.....	.....	.....	.....	2.0	.....	.....	.....	.....	2.0
Columbia	.....	.....	.....	.....	0.7	T.	.....	.....	.....	0.7
Conway	.....	.....	.....	.....	0.2	.....	.....	.....	.....	0.2
Darlington	.....	.....	.....	.....	1.0	0.5	.....	.....	.....	1.5
Due West	.....	.....	.....	.....	0.4	0.8	.....	.....	.....	1.2
Florence (No. 1)	.....	.....	.....	.....	0.5	T.	.....	.....	.....	0.5
Garnett	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0
Gaston Shoals	.....	.....	.....	.....	4.5	.....	.....	.....	.....	4.5
Georgetown	.....	.....	.....	.....	2.0	.....	.....	.....	.....	2.0
Greenville	.....	.....	.....	.....	3.1	.....	.....	.....	.....	3.1
Kershaw	.....	.....	.....	.....	T.	.....	.....	.....	.....	T.
Kingstree	.....	.....	.....	.....	0.4	.....	.....	.....	.....	0.4
Landrum	.....	.....	.....	.....	3.0	T.	.....	.....	.....	3.0

[12] No snowfall.

Monthly and seasonal snowfall, 1921–22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
South Carolina—Continued.										
Monetta					T.					T.
Newberry					1.0	T.				1.0
Orangeburg (No. 1)					2.0					2.0
Paris Island										0.0
Pinopolis					2.0					2.0
Santuck					1.2	T.				1.2
Spartanburg					3.0	T.				3.0
Trenton					1.0	T.				1.0
South Dakota.										
Aberdeen			12.0	2.0	13.2	23.5	13.0			63.7
Academy			4.0	3.5	7.0	10.0	2.5			27.0
Ardmore			8.7	3.2	5.0	2.0	T.			18.9
Bellefourche			6.3	11.8	12.8	6.6	8.9	1.0		47.4
Brookings			4.0	1.0	4.0	17.3	3.6	T.		29.9
Camp Crook			7.0	3.8	4.8	5.4	4.0	5.0		30.0
Colome			8.8	5.8	5.5	6.5	2.3	T.		28.9
Cottonwood			4.2	5.7	11.0	4.6		T.		25.5
Custer		1.5	8.0	13.0	9.0	1.7	2.5	11.0		46.9
Deadwood		1.0	4.5	15.0	18.0	6.0	6.0	20.5	12.0	83.0
Deerfield	T.	T.	7.3	11.7	15.6	2.7	1.0	9.0	3.0	50.3
Dumont		1.8	6.1	5.0	13.0	6.4	3.9	16.2	12.0	64.4
Eales			4.6	3.9	4.1	8.5	5.0			26.1
Elk Mountain			17.0	17.0	13.1	3.0	5.0	3.5		58.6
Fairfax			0.2	2.5	5.6	7.2	3.0	0.6		19.1
Faulkton			11.0	2.0	7.5	13.0	4.0			37.5
Forestburg			4.2	3.3	16.2	20.8	4.1			48.6
Gannvalley			4.1	6.0	12.0	14.0	3.5			39.6
Greenmont		2.0	6.0	9.0	12.0	7.0	10.1	21.0	47.1	114.2
Harveys Ranch		3.0	7.5	8.0	10.0	6.0	8.5	11.0	18.0	72.0
Hermosa			7.6	7.5	9.2	1.0	2.0	2.0		29.3
Highmore			3.2	2.0	3.5	10.2	2.2	T.		21.1
Hopewell			5.4	5.0	7.5	8.0	5.5	0.5		31.9
Hot Springs			14.0	8.0	15.0	4.0				41.0
Huron			5.6	4.2	11.9	10.7	4.8	0.1		37.3
Jefferson			10.0	7.0	10.0	16.0	8.0	T.		51.0
Lead		2.0	8.8	12.7	14.3	3.4	4.3	14.5	34.0	94.0
Lemmon		T.	14.5	6.0	11.5	17.0	12.2	T.		61.2
McIntosh			6.0	6.0	4.5	25.5	2.5			44.5
Marion			2.7	4.0	13.0	7.0	4.0		T.	30.7
Meadow		0.5	4.5	8.0	4.0	12.5	8.0	T.		37.5
Milbank			23.6	1.2	11.6	19.2	(*)	0.2		
Oelrichs			11.0	7.0	17.0	6.0		5.5		46.5
Orman			7.7	7.5	7.5	5.3	6.5	5.0		39.5
Ottumwa			(*)	4.0	12.0	9.0	5.0	(*)	(*)	
Pierre			3.6	2.4	9.9	9.4	3.8	T.		29.1
Rapid City			6.6	7.6	10.0	4.8	1.1	3.1		33.2
Redig			7.0	12.5	9.5	12.5	6.7	8.3		56.5
Rochford		1.0	19.1	14.6	22.0	7.4	4.0	21.1	9.6	98.8
Sioux Falls			1.7	6.0	16.3	7.1	4.0			35.1
Spearfish			10.3	20.0	12.5	4.5	8.2	9.0	4.0	68.5
Vale			5.0	15.0	11.7	4.5	1.5	1.0		38.7
Vermilion			3.7	5.5	11.8	1.0	3.2	6.0		31.2
Waters Ranch			11.5	4.1	20.4	5.8	4.8	3.5	2.5	52.6
Watertown			11.0	1.0	11.5	22.0	3.5	T.		49.0
Yankton			2.8	7.0	15.0	3.4	4.0			32.2
Tennessee.										
Ashwood			T.		3.0	0.5				3.5
Celina			(*)		0.5	0.3	T.			
Chattanooga				T.	4.1	T.	T.			4.1
Clarksville				T.	0.2	1.5	T.			1.7
Coldwater					2.5	T.				2.5
Decatur					4.0	1.0	T.			5.0
Florence			T.		1.0	T.	T.			1.0
Huntingdon					1.0					1.0
Jackson					T.	0.5				0.5
Johnson City			2.0		6.0	8.0				16.0

Monthly and seasonal snowfall, 1921-22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Tennessee—Continued.										
Knoxville			T.	T.	1.8	1.6	T.			3.4
McMinnville			4.0		3.5	1.0	2.0			10.5
Memphis					T.	0.6	T.			0.6
Nashville			T.		0.9	0.1	T.			1.0
Palmetto			T.		5.0	T.	T.			5.0
Rogersville			T.		2.5	0.5	T.			3.0
Rugby			3.0		7.5	T.	T.			10.5
Union City					3.5	T.				3.5
Walling			0.5		0.8	T.	0.5			1.8
Waynesboro			0.5		4.0	1.0	T.			5.0
Texas.										
Abilene					T.	1.1	0.2			1.3
Albany						T.				T.
Amarillo			T.	0.5	1.2	7.7	7.4	T.		16.8
Austin										0.0
Ballinger					T.	T.	1.0			1.0
Beaumont										0.0
Bonham										0.0
Bowie						1.5	T.			1.5
Bridgeport							1.0			1.0
Brownsville										0.0
Brownwood										0.0
Canadian				T.		3.5	5.8			9.3
Chillicothe				0.2		2.0	1.0			3.2
Clint					T.					T.
Colorado						0.3				0.3
Corpus Christi										0.0
Crosbyton						1.0				1.0
Dalhart				0.5		0.8	T.			1.3
Dallas					T.	0.9	0.1			1.0
Del Rio										0.0
Eagle Pass										0.0
Eastland						1.1	1.2			2.3
El Paso				T.	0.3	T.	T.			0.3
Flint				(*)		0.5	0.5			
Fort Davis						0.5				0.5
Fort Stockton						0.1	0.2			0.3
Fort Worth				T.	T.	T.	T.			T.
Galveston										0.0
Garden City										0.0
Greenville										0.0
Groesbeck					T.		T.			T.
Haskell						1.0				1.0
Henrietta						2.2				2.2
Houston										0.0
Kerrville										0.0
Knickerbocker						T.				T.
Lampasas						T.				T.
Longview										0.0
Lubbock						1.0	2.5			3.5
Marshall										0.0
Memphis					2.0	1.5				3.5
Miami				1.5		5.0	10.0			16.5
Midland						1.0				1.0
O 2 Ranch										0.0
Palestine					T.					T.
Paris						T.				T.
Plainview			T.		1.0	3.0	4.5			8.5
Port Arthur										0.0
Quanah						2.0				2.0
Riverside										0.0
Romero			T.		1.2	3.0	2.4			6.6
San Antonio										0.0
Sherman										0.0
Taylor							T.			T.
Waco										0.0
Waxahachie							T.			T.
Wills Point						(*)				

Monthly and seasonal snowfall, 1921–22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Utah.										
Alpine			5.0	3.0	11.0	41.0	8.3	7.0	(*)	
Alton			4.0	25.0	23.9	12.0	(*)	(*)	(*)	
Beaver			2.0	8.0	2.8	9.2	12.5	10.5	13.0	58.0
Black Rock			T.	6.5	11.5	4.3	6.0	11.0		39.3
Blanding			T.	20.5	16.5	21.5	10.0	0.5	T.	69.0
Brigham City				(*)	(*)	35.0	11.0	10.0		
Corinne			T.	(*)	3.0	8.0	4.0	(*)	(*)	
Cottonwood Weir		(*)	9.5	25.5	29.0	29.0	31.0	27.0	T.	
Delle				6.0	2.5	13.2		4.5		26.2
Deseret				3.0	12.0	15.0	4.0	12.0	4.0	50.0
Duchesne			T.	7.0	7.0	14.0	8.0	T.	T.	36.0
Emery	(*)	(*)	T.	9.0	2.8	12.0	(*)		16.0	
Farmington			11.0	(*)	12.1	(*)	(*)	(*)		
Fillmore			3.5	4.5	20.0	23.0	4.0	29.5	6.0	90.5
Government Creek			1.0	13.0	14.5	18.5	16.2	17.5	6.0	86.7
Green River				5.0	1.5	2.8	T.	(*)	2.5	
Hanksville			0.5	3.0	7.5	4.0			2.0	17.0
Hatch		T.	2.0	15.0	12.0	8.0	9.0	15.5	4.5	66.0
Heber		2.1	4.0	16.0	6.9	24.0	16.0	12.0		81.0
High Line City Creek		(*)	9.5	28.0	29.5	46.5	27.5	27.5	T.	
Hole-in-the-Rock		2.5	6.0	11.5	10.8	18.2	7.5	18.0	13.5	88.0
Huntsville		1.0	8.0	32.0	19.5	43.5	20.0	14.0	T.	138.0
Ibapah				17.5	16.5	19.2	11.8	26.0	3.5	94.5
Kelton				10.0	6.0	8.0	2.0	(*)		
Laketown			1.0	32.0	5.0	10.0	6.0	1.0	1.0	54.0
La Sal		T.	5.5	17.5	5.0	2.5	5.2	2.8	(*)	
Lehi	(*)			7.5	11.5	19.0	9.0	(*)		
Levan		T.	4.0	19.0	20.0	19.3	18.5	13.5	T.	94.3
Lower American Fork			3.0	6.0	4.0	32.0	11.0	11.0		67.0
Lower Mill Creek		(*)	(*)	24.0	29.5	32.0	27.0	31.0	T.	
Lucin			T.	9.0	8.0	7.0	2.0	(*)		
Manila		T.	6.5	2.0	9.5	17.1	8.0	18.0	6.0	67.1
Manti			1.4	12.2	8.2	16.6	14.0	6.3	T.	58.7
Midlake			T.	16.5	0.1	0.5	T.	1.5		18.6
Milford			2.0	2.1	10.1	4.8	4.8	11.0	8.5	43.3
Moab			0.2	(*)	1.1	5.7	T.	(*)		
Modena			T.	5.4	14.6	3.6	6.3	6.8	8.8	45.5
Morgan		T.	15.0	24.0	13.0	42.0	27.0	9.0		130.0
Moroni		T.	T.	9.6	3.9	10.5	4.6	4.4	T.	33.0
Mosida			T.	2.0	6.0	14.0	6.2	4.5		32.7
Mountain Dell		3.5	12.5	29.0	21.0	80.0	41.5	40.0	T.	227.5
Nada			4.0	6.3	10.5	4.8	9.8	15.5	8.0	58.9
Ogden			7.8	(*)	10.5	27.5	5.8			
Park City	(*)	8.0	6.5	30.0	25.5	52.0	50.0	28.0	0.5	210.5
Pine View		(*)	(*)	31.0	21.0	33.0	18.0	13.0	4.0	
Pinto				12.0	30.0	12.0		16.0	T.	70.0
Piute Dam			4.5	3.0	7.0	6.7	3.0	(*)	12.0	
Price			0.2	9.8	6.5	5.9	2.8	(*)	13.0	
Provo			2.4	6.8	22.0	37.2	7.5	2.2		78.1
Richmond			T.	56.5	22.3	37.5	18.0	8.0	T.	142.3
Saltair			3.5	4.5	4.0	19.5	4.0	15.0		50.5
Salt Creek			15.0	(*)	10.0	28.0	(*)	(*)	(*)	
Salt Lake City		T.	4.9	17.7	13.2	27.3	15.4	22.6	T.	101.1
Santaquin			5.0	1.8	22.0	11.2	(*)	13.0		
Snake Creek		3.0	6.5	30.0	20.8	54.7	28.3	22.8	1.5	167.6
Sunnyside		T.	2.2	10.2	7.8	18.9	10.2	11.5	2.0	62.8
Thistle	(*)	(*)	(*)	(*)	32.0	34.0	20.5	13.0	1.0	
Tooele			0.6	11.5	16.5	12.0	15.0	12.5	T.	68.1
Vernal			(*)	8.0	6.0	10.0	8.5	5.0	(*)	
Wendover				15.2	2.0	3.2				
Winter Quarters		1.5	4.5	33.0	13.0	43.0	27.5	20.0	11.0	153.5
Vermont.										
Bloomfield		T.	40.2	(*)	17.0	25.0	1.5	8.0		
Burlington		T.	23.0	7.8	13.8	20.5	7.1	8.9		81.1
Chelsea		T.	29.0	15.0	15.0	26.0	14.0	(*)		
Cornwall			31.0	7.0	14.0	24.0	14.0	8.0		98.0
Enosburg Falls		T.	21.0	16.0	17.5	28.0	4.0	13.0		99.5
Garfield			28.0	27.0	28.0	41.5	13.1	22.5		160.1

Monthly and seasonal snowfall, 1921-22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Vermont—Continued.										
Northfield	.....	0.8	35.6	6.8	15.7	30.8	12.3	16.6	.....	118.6
Somerset	.....	.....	21.0	7.5	20.0	17.8	18.4	8.8	.....	93.5
St. Johnsbury	.....	T.	26.4	11.9	17.6	30.2	5.0	11.7	.....	102.8
Woodstock	.....	.....	37.0	15.0	20.0	25.0	13.0	7.0	.....	117.0
Virginia.										
Arcola	.....	.....	.....	7.3	26.3	7.5	0.7	.....	.....	41.8
Blacksburg	.....	.....	T.	T.	10.8	7.6	0.6	T.	.....	19.0
Callaville	.....	.....	.....	.....	18.0	7.5	.....	.....	.....	25.5
Cape Henry	.....	.....	.....	T.	3.5	8.0	.....	.....	.....	11.5
Charlottesville (near)	.....	.....	.....	0.1	29.2	7.7	2.0	.....	.....	39.0
Culpeper	.....	.....	.....	1.4	24.0	5.0	1.0	.....	.....	31.4
Dahlgren	.....	.....	.....	.....	15.5	1.0	0.2	.....	.....	16.7
Dale Enterprise	.....	.....	T.	4.0	17.0	12.0	1.0	.....	.....	34.0
Dante	.....	.....	T.	T.	3.0	2.5	T.	.....	.....	5.5
Danville	.....	.....	.....	T.	20.5	3.0	.....	.....	.....	23.5
Fredericksburg	.....	.....	.....	1.3	36.5	4.0	T.	.....	.....	41.8
Hopewell	.....	.....	.....	.....	14.5	8.0	.....	.....	.....	22.5
Hot Springs	.....	T.	.....	T.	16.5	12.5	1.5	.....	.....	30.5
Lexington	.....	.....	.....	T.	14.5	7.5	3.0	.....	.....	25.0
Lincoln	.....	T.	.....	5.5	26.0	8.0	1.0	.....	.....	40.5
Lynchburg	.....	.....	.....	.....	22.7	4.7	0.4	.....	.....	27.8
Mendota	.....	.....	T.	1.8	1.0	.....	.....	.....	.....	2.8
Mount Weather	.....	.....	.....	11.0	23.0	8.0	2.0	.....	.....	44.0
New Canton	.....	.....	.....	T.	28.0	5.5	3.0	.....	.....	36.5
Newport News	.....	.....	.....	T.	8.5	11.0	.....	.....	.....	19.5
Norfolk	.....	.....	.....	T.	3.4	8.8	T.	.....	.....	12.2
Pulaski	.....	.....	T.	T.	9.5	4.5	4.0	.....	.....	18.0
Radford	.....	.....	.....	1.0	12.0	4.0	4.0	.....	.....	21.0
Richmond	.....	.....	.....	T.	22.1	5.3	0.1	.....	.....	27.5
Rocky Mount	.....	.....	.....	T.	17.0	3.0	1.0	.....	.....	21.0
Runnymede	.....	.....	.....	T.	30.5	9.0	T.	.....	.....	39.5
Staunton	.....	T.	.....	T.	21.0	8.5	1.0	.....	.....	30.5
Williamsburg	.....	.....	.....	T.	9.7	8.5	.....	.....	.....	18.2
Winchester	.....	.....	.....	7.0	13.7	8.0	.....	.....	.....	28.7
Woodstock	.....	.....	.....	9.0	15.5	8.5	T.	.....	.....	33.0
Wytheville	.....	.....	T.	T.	13.9	6.0	0.2	.....	.....	20.1
Virgin Islands.[13]										
Washington.										
Aberdeen	.....	.....	3.0	1.5	1.5	2.5	.....	3.0	.....	11.5
Anatone	1.0	.....	37.0	8.5	23.0	17.0	24.0	17.0	0.5	128.0
Bellingham	.....	.....	T.	.....	1.7	11.0	0.5	.....	.....	13.2
Blewett	(*)	(*)	24.0	21.0	26.0	23.0	11.0	11.0	(*)	.....
Brewster	.....	.....	21.5	2.9	6.1	6.0	.....	.....	.....	36.5
Buckley	.....	.....	14.9	1.0	7.7	2.9	3.8	T.	.....	30.3
Bumping Lake	T.	T.	71.0	13.5	35.5	34.0	50.5	10.0	T.	[14] 216.5
Cascade Tunnel	(*)	(*)	100.0	11.0	83.0	128.0	90.0	35.0	(*)	.....
Cedar Lake	.....	.....	15.0	T.	36.0	29.0	25.0	9.5	.....	114.5
Centralia	.....	.....	8.5	6.0	4.2	0.2	0.2	T.	.....	19.1
Clearbrook	.....	.....	4.0	T.	11.0	8.0	2.0	.....	.....	25.0
Cle Elum	.....	.....	37.0	8.0	17.0	10.0	6.0	T.	.....	78.0
Colfax	.....	.....	14.0	5.0	16.0	(*)	2.0	(*)	.....	.....
Colville	.....	.....	20.0	5.5	10.0	8.5	7.0	6.6	.....	57.6
Conconully	.....	.....	27.5	4.9	5.0	10.5	22.0	(*)	.....	.....
Davenport	.....	.....	14.5	2.2	15.0	10.5	7.0	4.0	.....	53.2
Davis Ranch	.....	.....	27.7	4.4	55.5	45.0	43.0	2.5	T.	178.1
Dayton	.....	.....	17.8	5.3	15.0	2.7	T.	T.	.....	40.8
Detroit	.....	.....	3.0	T.	T.	.....	T.	.....	.....	3.0
Dirtyface Mountain	.....	.....	59.7	13.2	30.4	39.0	32.0	4.5	.....	178.8
Dryden	(*)	(*)	20.0	20.8	20.0	22.0	10.0	.....	.....	.....
Ellensburg	.....	.....	24.0	13.0	4.0	3.0	T.	.....	.....	44.0
Ephrata	.....	.....	14.5	4.8	5.5	4.9	T.	.....	.....	29.7
Forks	.....	.....	4.0	3.0	1.2	7.0	3.8	1.0	.....	20.0
Glenoma	.....	.....	14.5	2.0	26.0	8.0	10.0	5.0	.....	65.5
Gold Creek	.....	.....	34.5	15.5	16.0	13.0	10.0	T.	.....	89.0

[13] No snowfall.
[14] Includes July, 1921: Bumping Lake, 2.0.

Monthly and seasonal snowfall, 1921-22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Washington—Continued.										
Hatton			10.0	3.5	7.5	1.3				22.3
Headworks			7.8	2.3	13.8	2.8	4.0		T.	30.7
Irene Mountain		T.	16.8	5.5	11.0	10.8	4.3	6.5	T.	54.9
Kahlotus			12.0	2.0	11.0	2.5	T.	T.		27.5
Kennewick			14.0	5.0	4.8	3.0	T.			26.8
La Center				3.0	4.8	2.0	2.0	2.0		13.8
Lake Clealum			43.0	9.5	25.2	10.5	9.0			97.2
Lake Kachess			59.0	9.0	32.0	24.0	29.0	10.0		163.0
Lake Keechelus		T.	73.2	10.5	53.5	55.0	68.5	21.5	2.0	284.2
Laurier		T.	16.2	4.5	15.0	9.5	6.2	1.2		52.6
Leavenworth			40.5	16.0	15.5	21.0	3.0	T.		96.0
Locke		1.1	37.2	10.9	23.5	23.4	25.5	15.5		137.1
Longmires Springs			44.5	17.5	48.5	36.5	62.5	48.0	6.0	263.5
Lost Creek			24.0	5.8	4.5	11.5	7.0	T.		52.8
McCumbers Ranch			39.0	12.5	17.0	5.0	9.0	6.5		89.0
Mill Creek Intake			42.0	13.0	23.5	16.0	26.5	11.0		132.0
Mottinger			15.0	4.0	5.2	T.				24.2
Moxee			15.8	4.0	2.7	2.1		T.		24.6
Nespelem			13.5	6.8	11.5	13.0	4.5	(*)		
North Head				1.5	1.5	T.	1.6		T.	4.6
Northport			15.3	4.0	17.0	9.5	7.9	T.		53.7
Odessa			11.0	1.8	12.5	5.8	2.0	0.5	T.	33.6
Omak			11.0	T.	6.0	2.5				19.5
Oroville			15.0	1.0	4.0	0.2	(*)	T.		
Paradise Inn	3.5	27.5	128.5	60.0	126.5	80.0	160.0	84.0	47.0	[15] 723.0
Pomeroy	T.		22.0	2.5	12.5	0.5	(*)	T.		
Port Angeles			9.2	3.8	2.0	1.2	6.5			22.7
Port Townsend			4.0	5.0	3.5	T.				12.5
Prosser			19.0	6.0	2.0	3.2				30.2
Pullman			16.0	5.5	26.8	15.0	12.5	10.1		85.9
Republic		T.	21.1	3.0	8.8	6.5	3.5	1.0	T.	43.9
Rimrock			41.5	15.0	23.0	11.0	15.0	4.0		[15] 109.8
Rosalia			10.0	3.2	16.8	6.7	10.4	3.4		50.5
Scenic	(*)	(*)	70.0	4.0	39.0	64.0	71.0	22.0	(*)	
Seattle			7.3	2.5	2.6	0.5	T.	T.		12.9
Sixprong			30.0	10.2	5.5	5.5				51.2
Snoqualmie Pass		3.0	80.0	27.0	80.0	103.0	85.0	27.0	4.0	409.0
Snyders Ranch			50.0	14.4	12.8	17.2	16.9	T.	T.	111.3
Spokane			10.5	3.2	13.7	10.4	5.5	1.0		44.3
Stehekin (near)			52.0	7.5	34.0	26.5	25.0	0.5		145.5
Stokes Ranch			47.0	11.0	8.2	12.2	21.1			99.5
Sunnyside			20.8	8.0	1.8	2.5				33.1
Tacoma			11.0	3.5	1.3	T.	T.	T.		15.8
Tatoosh Island			T.	T.	T.	0.8	T.	T.	T.	0.8
Touchet Ridge	2.0		36.0	17.0	33.2	30.0	41.5	17.0		176.7
Upper Cle Elum Valley	(*)	(*)	78.0	27.0	63.0	61.0	76.0	16.0	(*)	
Wahluke			10.0	(*)	2.0	4.0				
Wallace			22.6	9.5	5.5	10.6	37.7	7.4		93.3
Walla Walla			19.9	6.4	16.3	2.4	2.1	0.1		47.2
Wapato			25.5	11.8	0.7	3.0				41.0
Waterville			15.0	11.2	5.2	8.0	5.5	1.0		45.9
Wenatchee			14.5	8.5	7.5	6.0				36.5
Wenatchee (near)			17.8	21.5	11.5	13.0	1.5			65.3
Wilbur			12.0	4.0	14.0	7.5	4.2	7.5		49.2
Willard	(*)	(*)	(*)	10.0	29.0	23.0	21.0	2.0	(*)	
Wind River			40.5	14.7	48.0	34.0	48.5	22.5		208.2
Winthrop			40.0	17.0	13.0	16.0	16.0			102.0
Yacolt			T.	T.	9.0	3.0		2.0		14.0
Yakima			25.4	9.9	3.9	2.4	T.		T.	41.6
West Virginia.										
Bancroft		T.	T.	0.5	5.3	3.4	2.4			11.6
Bens Run			1.0	11.0	3.0	4.0	12.0			31.0
Bluefield		T.	T.	2.0	14.2	8.5	4.5	T.		29.2
Brandywine				8.0	12.0	11.0				31.0
Buckhannon		T.	1.5	9.0	11.0	4.5	3.5			29.5
Burlington		T.		13.0	20.5	7.5	5.0	2.0		48.0

[15] Includes at Paradise Inn: July, 1921, 5.0; June, 1922, 1.0; Rimrock: June, 1922, 0.3.

Monthly and seasonal snowfall, 1921–22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
***West Virginia*—Continued.**										
Camden-on-Gauley	.....	T.	2.0	1.0	0.1	T.	T.	T.	.....	3.1
Charleston	.....	.....	.....	T.	0.8	3.0	T.	.....	.....	3.8
Creston	.....	T.	1.0	3.3	2.7	3.3	0.9	.....	.....	11.2
Elkins	.....	T.	2.4	15.5	15.4	5.2	6.0	T.	.....	44.5
Fairmont	.....	T.	1.0	14.0	6.1	5.4	6.0	T.	.....	32.5
Glenville	.....	.....	0.2	4.0	7.6	3.0	2.0	.....	.....	16.8
Hinton	.....	.....	T.	T.	10.0	6.5	0.5	.....	.....	17.0
Huntington	.....	.....	T.	0.2	1.4	1.7	0.2	.....	.....	3.5
Lewisburg	.....	T.	T.	3.0	14.0	15.5	3.0	.....	.....	35.5
Lost Creek	.....	T.	2.0	5.0	5.8	2.8	3.2	.....	.....	18.8
Mannington	.....	.....	0.9	9.5	9.5	3.0	5.9	T.	.....	28.8
Martinsburg	.....	.....	.....	9.5	13.8	9.7	2.0	T.	.....	35.0
Parkersburg	.....	.....	0.6	5.8	1.3	3.6	1.0	.....	.....	12.3
Pickens	.....	1.0	6.0	32.0	35.0	14.0	25.0	0.5	.....	113.5
Point Pleasant	.....	.....	T.	2.0	T.	T.	T.	.....	.....	2.0
Robertsburg	.....	T.	.....	T.	3.0	1.0	.....	.....	.....	4.0
Romney	.....	.....	.....	4.0	19.0	8.0	.....	.....	.....	31.0
Ryan	.....	T.	1.0	2.3	6.6	3.5	7.3	.....	.....	20.7
Smithfield	.....	.....	1.0	10.5	5.9	4.5	6.5	T.	.....	28.4
Wellsburg	.....	.....	2.5	6.3	2.3	1.0	3.5	T.	.....	15.6
Weston	.....	T.	1.0	9.0	7.5	4.0	2.0	.....	.....	23.5
Wheeling	.....	T.	0.3	9.5	2.8	1.6	4.7	T.	.....	18.9
Wisconsin.										
Ashland	.....	T.	6.9	12.3	8.9	28.7	11.1	4.8	.....	72.7
Baraboo	.....	.....	6.0	(*)	(*)	1.0	T.	(*)	(*)	.....
Brodhead	.....	.....	4.5	5.5	1.0	T.	2.0	T.	.....	13.0
Burnett	.....	T.	12.7	9.6	0.8	10.4	2.6	4.0	.....	40.1
Cornucopia	.....	T.	7.4	15.0	9.3	27.8	12.1	8.2	.....	79.8
Deerskin Dam	.....	T.	8.4	16.9	7.7	20.5	8.2	7.0	.....	68.7
Delavan	.....	.....	6.0	5.7	2.0	1.2	T.	T.	.....	14.9
Eau Claire	.....	T.	16.3	8.6	12.6	18.9	4.5	5.6	.....	66.5
Florence	.....	T.	8.2	16.0	7.7	31.7	9.0	18.0	.....	90.6
Fond du Lac	.....	.....	9.5	13.0	6.0	13.5	T.	0.5	.....	42.5
Grand River Locks	.....	.....	8.5	10.5	6.5	5.2	0.7	T.	.....	31.4
Grantsburg	.....	.....	13.5	4.5	9.0	22.5	2.0	3.0	.....	54.5
Green Bay	.....	.....	8.5	12.4	10.8	15.8	2.6	0.6	.....	50.7
Hatfield	.....	.....	9.1	11.3	5.5	8.0	0.7	T.	.....	34.6
High Falls	.....	.....	10.0	16.0	11.5	25.0	18.0	2.0	.....	82.5
Hillsboro	.....	T.	9.0	10.0	7.0	4.0	4.0	T.	.....	34.0
Koepenick	(*)	T.	9.0	14.0	3.0	26.0	7.0	10.0	.....	.....
La Crosse	.....	.....	10.5	5.7	13.8	7.5	6.0	1.7	.....	45.2
Madison	.....	T.	12.3	6.2	1.5	3.2	3.7	T.	.....	26.9
Manitowoc	.....	.....	7.2	10.2	5.2	12.6	2.8	2.0	.....	40.0
Medford	.....	T.	11.5	12.5	8.0	24.0	6.0	6.0	.....	68.0
Milwaukee	.....	.....	1.6	6.5	1.5	3.5	1.3	T.	.....	14.4
Minocqua	.....	T.	9.0	8.2	7.0	27.0	3.5	2.5	.....	57.2
Mondovi	.....	.....	27.5	10.0	11.0	7.0	8.5	12.0	.....	76.0
Park Falls	.....	1.0	18.0	18.0	18.7	35.5	9.0	4.0	.....	104.2
Prairie du Chien	.....	.....	5.0	4.0	4.0	2.0	2.0	.....	.....	17.0
Prentice	.....	T.	8.7	10.3	3.6	17.1	2.2	5.0	.....	46.9
Racine	.....	.....	1.0	4.6	T.	2.0	2.0	.....	.....	9.6
Rhinelander	.....	T.	7.0	15.4	4.0	21.0	T.	1.0	.....	48.4
Ripon	.....	.....	9.5	14.5	6.5	9.0	2.0	1.0	.....	42.5
River Falls	.....	T.	17.3	8.2	8.6	12.9	2.8	6.0	.....	55.8
Sheboygan	.....	.....	4.5	4.5	2.2	2.7	1.0	T.	.....	14.9
Solon Springs	.....	T.	12.2	9.5	6.0	31.5	4.0	7.0	.....	70.2
Sturgeon Bay	.....	T.	13.0	13.0	8.5	24.0	6.5	1.0	.....	66.0
Superior	.....	.....	6.5	6.1	3.3	18.4	12.3	3.3	.....	49.9
Wausau	.....	0.2	17.0	12.2	8.5	23.5	8.1	10.7	.....	80.2
Weyerhauser	.....	T.	12.5	8.7	8.4	23.8	8.5	1.0	.....	62.9
Williams Bay	.....	.....	9.2	6.0	0.5	0.7	0.5	.....	.....	16.9
Wisconsin Rapids	.....	T.	12.8	22.1	8.7	12.1	9.7	(*)	.....	.....
Wyoming.										
Alta	0.1	1.0	5.3	19.7	15.7	19.7	10.2	4.7	2.5	78.9
Barnum	.....	T.	10.9	16.0	12.0	2.5	7.1	32.0	5.5	86.0
Basin	T.	.....	7.5	2.8	14.2	9.3	1.2	.....	.....	35.0

Monthly and seasonal snowfall, 1921–22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Wyoming—Continued.										
Bedford	.....	0.5	14.0	45.5	26.5	33.5	10.5	19.0	2.5	[16] 152.5
Big Creek	T.	3.0	7.0	23.2	14.5	31.4	12.5	14.1	(*)	.....
Border	.....	T.	9.0	40.0	6.6	34.8	13.1	6.2	.....	109.7
Bow Ranger Station	T.	4.0	9.0	(*)	13.0	26.0	21.0	16.0	25.0	.....
Buffalo	.....	.....	4.0	4.0	15.0	2.0	T.	9.0	.....	34.0
Casper	.....	T.	7.8	18.0	10.1	5.5	7.6	27.0	14.0	90.0
Centennial	0.1	0.3	8.9	33.9	5.8	14.3	9.3	11.6	5.8	90.0
Cheyenne	.....	T.	3.6	13.5	4.3	9.0	2.1	13.8	2.3	[17] 49.1
Chugwater	.....	T.	3.0	11.0	6.0	5.0	4.0	4.0	8.0	41.0
Clark	T.	.....	28.0	9.5	3.5	1.9	T.	0.1	T.	43.0
Clearmont	(*)	(*)	(*)	7.0	6.8	0.9	3.5	3.2	(*)	.....
Cody	.....	.....	19.0	5.0	7.0	3.5	4.0	14.0	.....	52.5
Cokeville	.....	1.0	4.0	22.0	(*)	11.0	(*)	(*)	(*)	.....
Colony	.....	.....	10.5	16.0	13.0	12.0	11.7	25.7	T.	88.9
Crandall Creek	(*)	(*)	(*)	(*)	9.8	39.3	7.1	11.3	3.5	.....
Deaver	.....	.....	10.0	1.5	(*)	T.	T.	.....	0.5	.....
Diversion Dam	.....	.....	2.0	8.2	7.0	3.0	3.0	10.0	2.5	35.7
Dome Lake	(*)	(*)	36.5	21.0	17.0	10.0	13.5	68.0	34.0	.....
Douglas	.....	.....	4.5	16.5	7.2	2.5	T.	13.5	10.0	54.2
Dubois	(*)	.....	2.0	11.0	11.5	19.0	(*)	(*)	6.5	.....
Dutch Joe	T.	2.2	48.2	63.0	18.0	42.0	(*)	26.0	(*)	.....
Dwyer	.....	T.	5.3	15.5	8.0	4.0	.....	7.6	(*)	.....
Echeta	.....	T.	10.0	10.0	15.0	2.0	5.0	3.0	10.0	55.0
Eden	.....	.....	2.0	12.3	(*)	(*)	3.0	0.2	(*)	.....
Elk Mountain	T.	2.0	6.0	6.0	7.0	13.1	7.6	9.1	18.0	68.8
Encampment	.....	.....	10.0	13.5	3.7	(*)	8.2	12.0	T.	.....
Ervay	.....	2.0	14.0	24.0	10.0	7.0	13.0	40.0	17.0	127.0
Evanston	.....	1.0	8.5	21.5	5.5	21.0	8.5	7.0	1.0	74.0
Fort Laramie	.....	.....	8.3	17.1	7.8	4.5	1.6	.....	5.0	44.3
Foxpark	T.	4.0	12.0	34.0	14.5	49.0	18.0	14.0	26.0	171.5
Gillette	.....	0.1	9.5	7.1	(*)	(*)	(*)	(*)	(*)	.....
Hampshire (near)	.....	.....	9.5	7.0	7.3	T.	0.8	10.0	1.5	36.1
Hecla	.....	T.	3.5	10.0	3.7	8.0	3.0	10.5	1.0	39.7
Hunters Station	2.0	2.3	14.0	14.5	14.0	19.0	4.0	50.0	8.0	127.8
Hyattville	.....	.....	26.0	5.0	.....	3.0	3.0	2.0	T.	39.0
Jackson	(*)	0.8	(*)	24.5	(*)	(*)	(*)	(*)	(*)	.....
Kendall	(*)	(*)	26.0	35.0	23.0	29.0	8.0	15.0	4.0	.....
Kirtley	.....	T.	8.0	11.0	8.5	1.0	.....	10.0	6.0	44.5
Knowles	T.	1.4	10.0	30.9	12.9	9.8	12.8	26.7	12.0	116.5
Lagrange	.....	.....	5.5	16.0	6.5	8.0	5.0	9.5	10.0	60.5
Lander	T.	.....	4.7	16.7	12.1	4.0	6.0	31.8	1.0	76.3
Laramie	T.	.....	5.5	11.0	4.5	7.5	8.0	12.8	5.0	54.3
Lovell	.....	.....	8.0	1.3	5.7	3.9	0.5	1.4	.....	20.8
Lusk	.....	0.2	5.6	14.5	7.5	5.2	3.0	14.4	36.0	86.4
Lyman	(*)	(*)	(*)	(*)	4.0	13.0	(*)	(*)	(*)	.....
Middle Fork Ranger Station	3.0	3.0	(*)	(*)	(*)	(*)	(*)	(*)	11.0	.....
Moran	3.0	3.0	16.0	15.0	15.0	25.0	4.0	(*)	6.0	([18])
Newcastle	.....	T.	9.5	10.5	11.5	3.5	1.5	2.0	4.0	42.5
Nine Mile Creek	(*)	(*)	(*)	16.0	5.7	0.5	6.0	15.0	2.1	.....
Painter	.....	0.5	18.5	20.0	(*)	(*)	6.0	15.0	0.5	.....
Pathfinder	.....	.....	5.0	20.5	4.5	4.3	3.5	14.0	8.0	59.8
Pavillion	T.	.....	2.0	8.0	8.1	2.0	1.2	8.5	0.5	30.3
Pine Bluff	.....	.....	(*)	7.5	5.0	3.0	1.8	(*)	.....	.....
Pinedale	(*)	(*)	(*)	19.9	7.7	14.5	(*)	6.0	(*)	.....
Powell	.....	.....	5.0	1.1	4.0	T.	T.	(*)	1.0	.....
Rawlins	.....	.....	3.0	13.0	1.0	8.0	T.	7.0	4.0	36.0
Riverton	.....	.....	(*)	(*)	(*)	3.2	4.2	20.5	.....	.....
Rockypoint	.....	1.5	8.5	14.0	17.0	5.0	10.5	12.0	(*)	.....
Saratoga	.....	.....	4.0	6.0	4.0	19.2	4.0	8.0	10.0	55.2
Sheridan	.....	.....	13.2	6.2	13.3	2.9	2.6	20.4	T.	58.6
Sheridan Creek Ranger Station	.....	.....	(*)	(*)	(*)	29.0	(*)	(*)	6.0	.....
Sheridan Field Station	.....	.....	9.5	(*)	6.7	2.9	3.5	(*)	.....	.....
Shoshone Dam	T.	T.	23.0	6.2	7.8	5.5	5.0	7.0	T.	54.5
South Pass City	T.	3.0	16.5	52.2	13.0	22.0	9.5	20.5	0.5	137.2
Spencer (near)	(*)	(*)	12.0	9.0	10.0	1.0	1.0	1.0	(*)	.....
Sundance	.....	0.5	11.2	23.0	31.0	10.0	10.0	19.0	10.0	114.7
Thermopolis	(*)	(*)	2.0	9.0	10.0	3.0	6.0	32.0	.....	.....
Timber Creek	T.	7.0	8.2	5.2	11.7	10.4	4.4	47.0	5.6	98.5

[16] Includes July, 1921: Bedford, 0.5. [17] Includes June, 1922: Cheyenne, 0.5. [18] At Moran: July, 1921, 4.0.

Monthly and seasonal snowfall, 1921–22—Continued.

Stations.	1921				1922					Seasonal.
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	
Wyoming—Continued.										
Upton	.....	1.0	17.0	10.0	7.0	2.0	1.0	9.0	4.0	51.0
Verona	.....	.....	14.0	7.0	15.0	3.0	8.0	16.0	.....	63.0
Willow Springs Ranger Station	.....	3.0	12.5	7.0	26.0	(*)	(*)	(*)	26.5	.....
Worland	T.	.....	5.0	3.7	7.0	5.5	1.0	.....	.....	22.2
Wyncote	.....	.....	4.0	14.0	(*)	(*)	(*)	(*)	(*)	.....
Yoder	(*)	.....	5.0	15.3	4.2	(*)	(*)	.....	.....	.....
Yellowstone Park	0.1	5.0	23.7	26.3	8.1	23.5	4.6	5.7	2.0	[19] 102.8
Gallatin [21]	1.0	2.0	14.5	11.0	10.5	(*)	12.5	20.5	(*)	([20])
Riverside [21]	T.	(*)	(*)	36.0	21.5	(*)	(*)	(*)	(*)	.....
Snake River [21]	T.	3.0	31.0	47.0	30.0	40.0	15.0	17.0	12.0	195.0
Soda Butte [21]	T.	2.0	26.0	33.5	18.5	26.0	15.0	8.0	T.	129.0
Canadian stations.										
St. Johns, Newfoundland	.....	1.0	(*)	3.0	25.0	33.0	8.0	1.0	(*)	.....
Port aux Basques, Newfoundland	.....	0.4	14.9	29.3	38.5	29.3	10.8	10.0	4.2	137.4
Sydney, Cape Breton Island	.....	T.	13.0	31.0	52.0	30.5	7.0	1.5	.....	135.0
Halifax, Nova Scotia	.....	.....	17.4	18.3	17.3	24.3	16.3	T.	.....	93.6
Yarmouth, Nova Scotia	.....	.....	5.3	8.5	13.2	21.6	3.4	4.8	.....	56.8
Charlottetown, Prince Edward Island	.....	T.	8.3	34.6	20.7	20.7	3.7	0.7	.....	88.7
Chatham, New Brunswick	.....	1.0	35.2	13.5	22.6	19.7	7.0	8.3	0.2	107.5
Father Point, Quebec	.....	.....	18.1	10.0	27.8	8.7	8.6	5.2	.....	78.4
Quebec, Quebec	.....	T.	23.2	16.3	23.4	29.3	7.6	2.5	.....	102.3
Montreal, Quebec	.....	0.1	20.6	13.5	20.6	19.4	6.9	8.2	.....	89.3
Stonecliffe, Ontario	.....	T.	(*)	(*)	(*)	(*)	(*)	(*)	(*)	.....
Ottawa, Ontario	.....	.....	25.9	10.7	18.1	23.0	5.7	13.1	.....	96.5
Kingston, Ontario	.....	.....	9.8	5.0	5.4	9.5	5.7	10.9	.....	46.3
Toronto, Ontario	.....	.....	7.5	6.8	9.0	12.5	11.6	0.2	.....	47.6
Port Stanley, Ontario	.....	0.2	4.7	11.5	1.4	9.3	8.5	4.2	.....	39.8
Southampton, Ontario	.....	.....	4.1	17.1	26.3	23.3	8.8	1.5	.....	81.1
Parry Sound, Ontario	.....	T.	8.8	32.8	45.8	30.2	12.2	6.1	.....	135.9
Cochrane, Ontario	T.	1.0	17.9	14.0	6.5	3.0	1.0	12.0	.....	55.4
White River, Ontario	.....	0.4	21.9	15.8	12.4	9.5	2.7	10.1	.....	72.8
Port Arthur, Ontario	.....	.....	10.9	6.6	4.5	12.7	13.3	1.4	.....	49.4
Winnipeg, Manitoba	.....	.....	8.5	5.0	2.7	7.4	13.4	1.6	.....	38.6
Minnedosa, Manitoba	.....	1.5	10.0	2.3	2.8	9.1	18.3	2.5	.....	46.5
The Pas, Manitoba	.....	T.	2.8	6.5	5.9	5.7	7.5	.....	.....	28.4
Port Nelson, Manitoba	.....	2.3	10.2	5.7	1.5	0.6	9.2	1.9	1.0	[22] 40.4
Qu'Appelle, Saskatchewan	.....	T.	16.4	2.1	4.3	11.4	17.4	14.8	.....	66.4
Moose Jaw, Saskatchewan	.....	.....	10.7	2.2	7.2	10.0	5.5	6.4	.....	42.0
Swift Current, Saskatchewan	15.0	0.6	4.2	1.5	8.1	3.2	1.6	.....	.....	34.2
Medicine Hat, Alberta	5.2	.....	8.4	0.8	5.3	5.8	3.2	8.2	.....	36.9
Calgary, Alberta	9.3	0.3	12.3	0.5	3.2	1.8	5.1	16.0	.....	48.5
Banff, Alberta	4.1	1.9	16.9	8.2	9.7	7.6	11.0	16.9	1.8	[22] 81.3
Prince Albert, Saskatchewan	2.8	.....	19.0	4.0	6.4	5.3	15.7	0.7	0.7	54.6
Battleford, Saskatchewan	.....	.....	8.4	2.0	2.0	3.0	6.5	1.0	.....	22.9
Edmonton, Alberta	.....	.....	6.0	1.6	7.4	8.7	5.7	14.8	0.5	[22] 44.9
Kamloops, British Columbia	.....	.....	13.0	4.2	6.3	6.8	3.5	.....	.....	33.8
Victoria, British Columbia	.....	.....	3.0	0.9	7.7	7.3	5.0	.....	.....	23.9
Barkerville, British Columbia	5.3	6.6	29.4	11.0	36.5	48.5	24.5	33.6	23.3	218.7
Prince Rupert, British Columbia	.....	.....	0.5	5.3	18.0	6.5	18.1	.....	.....	48.4
Atlin, British Columbia	.....	9.9	1.8	5.7	8.2	0.5	1.3	2.2	0.1	29.7
Dawson, Yukon	.....	13.4	4.0	11.6	11.4	3.3	2.9	4.7	.....	51.3
Prospect Point, Bermuda	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0

[19] Includes at Yellowstone Park: July, 1921, 3.3.
[20] At Gallatin: July, 1921, 3.0.
[21] Station in Yellowstone Park.
[22] Includes June, 1922: Port Nelson, 8.0; Banff, 3.2; Edmonton, 0.2.

EVAPORATION, 1921.

Monthly and annual evaporation (in inches and hundredths) for 1921.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Alabama.													
Silverhill	2.96	2.92	5.09	5.86	6.46	8.28	7.37	6.54	5.60	5.24	2.98	2.22	61.52
Arizona.													
Lee's Ferry										5.85	3.02	1.76	
Mesa	3.07	5.22	7.95	9.81	11.62	12.82	12.08	8.60	6.74	5.21	3.40	2.83	89.35
Roosevelt	2.31	3.52	6.61	8.38	11.83	13.72	12.50	9.42	7.84	5.64	2.71	2.81	96.79
Willcox	3.59	5.52	8.81	10.10	11.90	12.98	9.98	6.54	6.30	7.01	4.28	3.72	90.73
Yuma	2.52	4.10	5.75	7.16	7.63	8.82	11.18		6.58	3.64	2.43		
Yuma (Citrus)	4.38	7.40	10.58	12.64	14.91	8.18	18.91	16.72	13.32	8.83	5.54	4.29	135.70
California.													
Chula Vista	2.69	3.17	5.03	6.66	5.52	6.12	7.26	6.59	6.17	4.30	3.48	2.99	59.98
Dodgeland	0.89	1.52	2.64	6.00	6.49	9.16	11.24	7.53	6.27	3.67	1.21	0.74	57.36
Oakdale	1.26	4.10	2.69	6.90	8.53	13.37	17.03	14.65	10.35				
Tahoe				2.94	3.60	5.32	5.69	6.24	4.59	2.96	2.30		
Hawaii.													
Hoseae Upper	3.48	4.63	4.95	6.20	6.52	8.23	8.25	7.29	6.78	5.19	4.02	3.72	69.26
Maunawili	2.34	2.86	3.65	3.62	4.05	4.42	4.02	4.26	3.76	3.10	2.71	2.92	41.71
Idaho.													
Arrowrock				2.95	5.39	7.36	10.99	9.47	5.71				
Deer Flat						6.99	7.40	5.56	4.98	4.25			
Jerome				3.96	4.88	6.29	7.71	5.02	2.61	1.61			
Mud Lake					7.94	10.49	12.56	9.78	7.06	4.86			
Kansas.													
Tribune				8.09	11.44	9.59	11.96	10.67	8.68	7.41			
Wichita				7.29	7.68	6.86		10.91	8.67	8.22			
Maine.													
Gardiner (land pan)				2.45	4.90	6.01	5.31	5.70	4.24	2.65			
Minnesota.													
Centerville					5.61	7.29	10.68	6.19	4.37				
Missouri.													
Columbia				3.72	5.13	5.17	7.43	5.35	3.35	2.49	1.07		
University of Missouri				4.82	5.87	6.51	8.62	6.77	4.99	3.83	2.13		
Montana.													
Agricultural College				3.39	4.54	6.01	8.72	7.56	3.98	3.16			
Nelson Reservoir (floating pan)							7.98	8.29					
Nelson Reservoir (land pan)							13.43	13.18	7.29	4.61			
Sun River Canyon					3.96	4.24	7.08	5.59	3.94	3.80			
Valier					5.29	7.63	9.04	10.45	6.09	4.87			
Willow Creek Reservoir				3.73	2.94	5.98	8.74	8.18	3.10	5.32			
Nebraska.													
Lincoln				6.59	7.59	7.54	7.62	8.14	7.01	6.59			
North Platte (A)				5.64	6.74	6.62	10.87	6.94	5.46				
North Platte (B)				5.51	6.94	6.44	9.42	7.22	6.06				
Nevada.													
Lamolle								8.86		4.46			
Marlette Lake								9.56					
Pahrump	2.29	2.89	5.25			10.85	12.10	9.40	8.82	5.04	2.84	2.12	
New Mexico.													
Agricultural College	3.80	4.58	8.58	10.23	11.64	12.35	10.54	9.60	7.84	6.35	4.38	3.23	93.12
Elephant Butte Dam	3.56	4.88	8.16	10.98	14.26	13.07	10.24	9.87	9.74	9.41	5.34	3.68	103.19
Lake Avalon	2.22	3.58	4.85	6.83	6.67	6.02	7.31	8.16	6.70	6.26	4.25	2.80	65.65
Santa Fe	1.38	2.32	4.53	6.44	8.88	8.68	8.13	6.64	6.91	4.93	3.26	1.48	63.58
Tucumcari					7.36	7.47			8.29				
New York.													
Albany					5.33	6.34	5.20	5.32	3.92	2.62			
Ithaca				4.36	4.58	5.90	5.58	5.33	4.10	2.51			
North Carolina.													
Chapel Hill				3.69	3.32	4.59	5.15	5.45	4.47	3.20	1.49	1.28	
Ohio.													
Ohio State University					4.89	6.42	6.68	5.85	3.40	2.42			
Wooster				3.49	4.64	6.22	6.55	5.07	3.67	2.20			

Monthly and annual evaporation (in inches and hundredths) for 1921—Continued.

Stations.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
Oregon.													
Corvallis					5.08	4.77	8.65	7.90	3.71				
Porto Rico.													
San Juan	5.86	5.23	8.53	8.16	7.44	7.86	8.35	8.75	6.27	6.38	4.99	5.01	82.83
South Dakota.													
Rapid City				5.04	5.11	7.44	8.72	6.40	5.58	4.55			
Texas.													
Hill's Ranch	2.56	3.65	4.28	6.67	6.40	6.85	8.08	9.43	5.26	4.48	3.13	2.69	63.48
Utah.													
Myton				5.70	8.51	8.30	8.82	7.39	7.89	4.36			
Piute Dam					8.86	10.79	10.85	8.02	8.94	5.54			
Provo			3.24	3.33	5.58	6.30	6.80	5.61	4.29	2.59			
Virgin Islands.													
St. Croix	4.38		7.55	7.29	7.46	8.00	7.79						
Washington.													
Lake Kachess					3.71	4.07	5.95	4.41	1.83				
Walla Walla			2.60	3.58	5.23	7.64	10.25	9.26	4.62	2.46			